Screwed Reducing Hex Bush



Thread Size BSP (inch) M x F	Male x Female			
	Galvanised Malleable		316 SS	
	Part No.	Price $	Part No.	Price $
¼ x ⅛	FMG-BUS-8-6	2.24	---	---
⅜ x ⅛	FMG-BUS-10-6	2.46	---	---
⅜ x ¼	FMG-BUS-10-8	2.46	SS16B1008	3.42
½ x ⅛	FMG-BUS-15-6	1.56	---	---
½ x ¼	FMG-BUS-15-8	2.07	---	---
½ x ⅜	FMG-BUS-15-10	1.77	SS16B1510	6.72
¾ x ¼	FMG-BUS-20-8	1.71	---	---
¾ x ⅜	FMG-BUS-20-10	1.71	---	---
¾ x ½	FMG-BUS-20-15	2.22	SS16B2015	8.65
1 x ¼	FMG-BUS-25-8	4.19	---	---
1 x ⅜	FMG-BUS-25-10	2.81	---	---
1 x ½	FMG-BUS-25-15	3.01	SS16B2515	13.74
1 x ¾	FMG-BUS-25-20	3.24	SS16B2520	15.41
1¼ x ½	FMG-BUS-32-15	4.30	---	---
1¼ x ¾	FMG-BUS-32-20	4.30	SS16B3220	20.48
1¼ x 1	FMG-BUS-32-25	4.37	SS16B3225	23.34
1½ x ½	FMG-BUS-40-15	7.15	---	---
1½ x ¾	FMG-BUS-40-20	5.57	---	---
1½ x 1	FMG-BUS-40-25	6.93	SS16B4025	30.66
1½ x 1¼	FMG-BUS-40-32	5.92	SS16B4032	27.61
2 x ½	FMG-BUS-50-15	11.48	---	---
2 x ¾	FMG-BUS-50-20	8.10	---	---
2 x 1	FMG-BUS-50-25	7.75	SS16B5025	47.65
2 x 1¼	FMG-BUS-50-32	8.85	SS16B5032	40.80
2 x 1½	FMG-BUS-50-40	9.44	SS16B5040	40.49
2½ x ½	FMG-BUS-65-15	6.44	---	---
2½ x 1	FMG-BUS-65-25	19.16	---	---
2½ x 1¼	FMG-BUS-65-32	15.02	SS16B6532	67.03
2½ x 1½	FMG-BUS-65-40	15.49	SS16B6540	67.03
2½ x 2	FMG-BUS-65-50	15.06	SS16B6550	87.02
3 x 1	FMG-BUS-80-25	34.93	---	---
3 x 1½	FMG-BUS-80-40	22.19	---	---
3 x 2	FMG-BUS-80-50	19.80	SS16B8050	108.00
3 x 2½	FMG-BUS-80-65	25.93	SS16B8065	114.78
4 x 2	FMG-BUS-100-50	41.86	---	---
4 x 2½	FMG-BUS-100-65	41.86	SS16B10065	203.11
4 x 3	FMG-BUS-100-80	41.90	SS16B10080	244.12
---6 x 3	FMG-BUS-150-80	114.21	---	---
6 x 4	FMG-BUS-150-100	114.21	---	---
		Price Group: SD GM01		**Price Group: SD** AW01

L

FOR TECHNICAL, APPLICATION AND MATERIAL GUIDELINES PLEASE REFER TO PAGE 472

Screwed Hex Plugs

Thread Size BSP (inch)	316 SS	
	Part No.	Price $
¼	SS16XP008	1.97
⅜	SS16XP010	3.55
½	SS16XP015	4.75
¾	SS16XP020	6.79
1	SS16XP025	9.28
1¼	SS16XP032	14.17
1½	SS16XP040	18.56
2	SS16XP050	80.15
2½	SS16XP065	129.86
3	SS16XP080	68.73
4	SS16XP100	240.58

Available while stocks last!



Price Group: SD

AW01

Screwed Socket Plugs

Thread Size BSP (inch)	Galvanised Malleable	
	Part No.	Price $
⅛	FMG-HP-6	1.25
¼	FMG-HP-8	1.50
⅜	FMG-HP-10	2.16
½	FMG-HP-15	1.59
¾	FMG-HP-20	2.28
1	FMG-HP-25	2.90
1¼	FMG-HP-32	4.23
1½	FMG-HP-40	6.03
2	FMG-HP-50	7.47
2½	FMG-HP-65	17.49
3	FMG-HP-80	19.36
4	FMG-HP-100	41.44



Price Group: SD

GM01

Screwed Offset Adaptors BSP

Thread Size BSP (inch)	Galvanised Malleable	
	Part No.	Price $
1 x 1¼	FMG-OAD-25-32	19.85
1 x 1¾	FMG-OAD-25-45	21.93
1 x 2¼	FMG-OAD-25-57	23.52
1 x 2¾	FMG-OAD-25-70	25.22



Price Group: SD

GM01

L

FOR TECHNICAL, APPLICATION AND MATERIAL GUIDELINES PLEASE REFER TO PAGE 472

Screwed Unions



Female x Female

Thread Size BSP (inch)	Galvanised Malleable		SS 316	
	Part No.	Price $	Part No.	Price $
⅜	-	-	SS16FU010	18.81
½	FMG-UBS-15	11.14	SS16FU015	17.12
¾	FMG-UBS-20	18.85	SS16FU020	25.45
1	FMG-UBS-25	19.81	SS16FU025	40.54
1¼	FMG-UBS-32	20.56	SS16FU032	65.95
1½	FMG-UBS-40	30.78	SS16FU040	72.49
2	FMG-UBS-50	43.12	SS16FU050	119.34
2½	FMG-UBS-65	98.77	SS16FU065	160.91
3	FMG-UBS-80	151.44	SS16FU080	375.16
4	FMG-UBS-100	293.97	SS16FU100	339.96

Price Group: SD GM01

Price Group: SD AW01

Screwed Flanges



Thread Size BSP (inch)	Galvanised Malleable - Drilled	
	Part No.	Price $
½	FMG-FD-15	7.91
¾	FMG-FD-20	11.40
1	FMG-FD-25	13.28
1¼	FMG-FD-32	14.88
1½	FMG-FD-40	17.03
2	FMG-FD-50	25.69
2½	FMG-FD-65	40.08
3	FMG-FD-80	61.93
4	FMG-FD-100	86.24
6	FMG-FD-150	154.95

Price Group: SD GM01

Screwed Crosses



Thread Size BSP (inch)	Galvanised Malleable	
	Part No.	Price $
½	FMG-CRO-15	8.91
¾	FMG-CRO-20	14.29
1	FMG-CRO-25	14.89
1¼	FMG-CRO-32	16.66
1½	FMG-CRO-40	31.79
2	FMG-CRO-50	26.44
2½	FMG-CRO-65	56.78
3	FMG-CRO-80	71.64
4	FMG-CRO-100	129.56

Price Group: SD GM01

Screwed Backnuts



Thread Size BSP (inch)	Galvanised Malleable	
	Part No.	Price $
½	FMG-BAC-15	1.01
1	FMG-BAC-25	1.97
1¼	FMG-BAC-32	2.75
2	FMG-BAC-50	5.61
2½	FMG-BAC-65	16.00
4	FMG-BAC-100	26.21

Price Group: SD GM01

FOR TECHNICAL, APPLICATION AND MATERIAL GUIDELINES PLEASE REFER TO PAGE 472

Screwed Caps

Thread Size BSP (inch)	Galvanised Malleable	
	Part No.	Price $
¼	FMG-CAP-8	1.85
⅜	FMG-CAP-10	2.30
½	FMG-CAP-15	2.33
¾	FMG-CAP-20	2.90
1	FMG-CAP-25	3.86
1¼	FMG-CAP-32	5.73
1½	FMG-CAP-40	7.30
2	FMG-CAP-50	9.87
2½	FMG-CAP-65	22.89
3	FMG-CAP-80	32.78
4	FMG-CAP-100	54.44

Price Group: SD
GM01



Thread Size BSP (inch)	316 SS Hex	
	Part No.	Price $
¾	SS16C020	7.82
1	SS16C025	14.31
1¼	SS16C032	19.45
1½	SS16C040	23.22
2	SS16C050	35.33
3	SS16C080	105.02
4	SS16C100	195.39

Price Group: SD
AW01



Hex

Screwed Male Hose Tails

Thread Size BSP (inch)	SS 316 - BSP	
	Part No.	Price $
¼	SS16HT006	5.86
5⁄16	SS16HT008	5.86
⅜	SS16HT010	6.28
½	SS16HT015	7.34
¾	SS16HT020	12.96
1	SS16HT025	19.29
1¼	SS16HT032	38.17
1½	SS16HT040	43.74
2	SS16HT050	64.53
2½	SS16HT065	116.48
3	SS16HT080	133.58
4	SS16HT100	205.16
5	SS16HT125	POR
6	SS16HT150	POR

Price Group: SD
AW01



L

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M

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General Purpose Brass Ball Valve with Stainless Steel Handle, PN25

Design:	Full bore, long body series
End Connection:	Female x Female BSP
Body Materials:	Nickel plated brass with stainless steel handle
Seat & Ball:	PTFE seat and chrome plated brass ball
Temperature:	-10°C to 110°C
Options:	Flat steel handle for sizes 65mm to 100mm
Application:	Recommended for general use with water, oil & gas



Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
¼	6	BBVSTD006SS	362	2.5	11.28
⅜	10	BBVSTD010SS	362	2.5	11.28
½	15	BBVSTD012SS	362	2.5	12.35
¾	20	BBVSTD020SS	362	2.5	16.28
1	25	BBVSTD025SS	362	2.5	24.01
1¼	32	BBVSTD032SS	362	2.5	46.13
1½	40	BBVSTD040SS	362	2.5	65.65
2	50	BBVSTD050SS	362	2.5	100.15
2½	65	BBVSTD065SS	200	1.8	258.06
3	80	BBVSTD075SS	200	1.6	398.14
4	100	BBVSTD100SS	200	1.4	663.57

Price Group: SD

AR01

M

Brass Ball Valve Female x Female BSP - AGA Approved

Design:	Full bore, blow-proof stem
End Connection:	Female x Female BSP
Body Materials:	Nickel plated brass with stainless steel handle
Seat & Ball:	PTFE seat and chrome plated brass ball
Temperature:	-10°C to 110°C
Approvals:	AGA Certified
Application:	Recommended for general use with water, oil & gas



Lever Handle

Lever Handle *

Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
¼	6	BBVAGA006	600	4.1	16.77
⅜	10	BBVAGA010	600	4.1	17.85
½	15	BBVAGA012	600	4.1	18.75
¾	20	BBVAGA020	600	4.1	27.49
1	25	BBVAGA025	600	4.1	41.02
1¼	32	BBVAGA032	600	4.1	76.08
1½	40	BBVAGA040	600	4.1	108.70
2	50	BBVAGA050	600	4.1	150.61

* Superseded model will be supplied whilst stocks last - check with Dixon™ at time of order.

Price Group: SD

AR01



T Handle

Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
¼	6	BBVAGAT006	710	4.9	18.47
⅜	10	BBVAGAT010	710	4.9	18.41
½	15	BBVAGAT012	710	4.9	23.03
¾	20	BBVAGAT020	570	3.9	33.79
1	25	BBVAGAT025	570	3.9	49.18

Price Group: SD

AR01

Brass Ball Valve Screwed Male / Female BSP - AGA Approved

M

Design:	Full Bore
End Connection:	Screwed Male/Female BSP.
Body Materials:	Brass
Seat & Trim:	PTFE Seats
Temperature:	-20°C, 60°C (class T2 under EN331)
Application:	Industrial pneumatic and hydraulic applications. Water, oil & gas.



Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
½	15	BBVAGAMF012	710	4.9	26.04
¾	20	BBVAGAMF020	570	3.9	35.80
1	25	BBVAGAMF025	570	3.9	54.24
1½	40	BRBLMF040	363	2.5	119.34

Price Group: SD

AR01

Mini Ball Valves

Design:	Blow-out proof stem with chrome ball
End Connection:	Screwed Female & Male/ Female BSP ISO228 (equivalent to DIN259 and BS2779)
Body Materials:	Nickel-plated brass
Seat & Trim:	PTFE Seats
Temperature:	-0°C - 90°C. Rated to 220 PSI
Application:	Domestic water services, heating and air-conditioning plants, compressed air systems



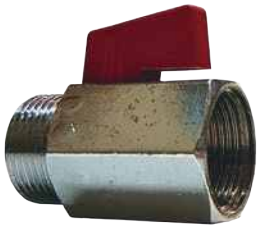
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Female BSP x Female BSP

Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
¼	6	MBVFF006	220	1.5	12.05
⅜	10	MBVFF010	220	1.5	11.56
½	15	MBVFF012	220	1.5	14.58
¾	20	MBVFF020	220	1.5	22.47

Price Group: SD

AR01



art.126

Female BSP x Male BSP

Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
¼	6	MBVMF006	220	1.5	10.97
⅜	10	MBVMF010	220	1.5	10.61
½	15	MBVMF012	220	1.5	13.41
¾	20	MBVMF020	220	1.5	22.55

Price Group: SD

AR01

Lockable Ball Valves

Design:	Lever operated, C/W Locking device, for lock open or lock closed.
End Connection:	Screwed Female BSP
Body Materials:	Brass, Nickel Plated
Seat & Trim:	PTFE seats
Temperature:	-10 to 110°C
Application:	For Industrial Pneumatic and Hydraulic applications.Water, oil & gas
Approvals:	AGA and Watermark



Size		Part No.	Price $
inch	mm		
½	15	V15LO	20.61
¾	20	V20LO	26.54
1	25	V25LO	46.45
1¼	32	V32LO	75.83
1½	40	V40LO	114.56
2	50	V50LO	180.22

Price Group: FE

VB06

M

"Deadman" Stainless Steel Spring Return Handle Ball Valve



Design:	Deadman spring return ball valve
End Connection:	Screwed BSP female ends
Body Materials:	SS 316
Seat & Trim:	PTFE Seats and CF8M (SS 316)
Options:	2 piece 1000 PSI BSP or 2 piece 2000 PSI NPT available or request
Application:	Mainly used as a fail-safe closed valve for petro chemical and other media where spillage can cause damage, injury or loss if an operator incorrectly opens the valve

Female BSP x Female BSP

Size		Part No.	Weight (kg)	WP WOG PSI	Price $
inch	mm				
½	15	SAS22015	1.2	1000	319.38
¾	20	SAS22020	1.4	1000	386.88
1	25	SAS22025	1.8	1000	464.46
1½	40	SAS22040	2.8	1000	773.76
2	50	SAS22050	3.9	1000	958.13

Price Group: SD

AR02

ANSI Ball Valve - Petro-Chemical - Fire Safe Certified

FIRE SAFE
API 607



316 stainless steel



cast steel

Applications:	Petroleum, Oil & Gas, Low pressure saturated steam, Mining & Industrial applications
Design:	Fire Safe Certified Ball Vaves Flanged ANSI 150 to API607
End Connection:	Flanged & Drilled ANSI 150
Body Materials:	Cast Steel (ASTM A216 WCB) & Stainless Steel (CF8M -SS316)
Seat & Trim:	Ball - ASTM A351 CF8M, Seat - R-PTFE
Pressure:	285 PSI for Ware, Oil, Gas & Some Corrosive Fluids
Options:	ANSI Class 300 & 600 in WCB & CF8M vailable on request
Accessories:	Gear operated, electric & pneumatic actuated
Features:	Fire Safe Certified with Lockable Levers , 3.1 Test Certificates available on request

API 607 Fire SAFE Certified ANSI 150 Ball Valves

Size NB		316SS (CF8M) Part No.	Price $	Cast Steel (WCB) Part No.	Price $
inch	mm				
½	15	V2FH-015	420.40	V2FH-WCB-015	294.51
¾	20	V2FH-020	512.02	V2FH-WCB-020	343.60
1	25	V2FH-025	619.82	V2FH-WCB-025	431.96
1¼	32	V2FH-032	780.00	V2FH-WCB-032	451.58
1½	40	V2FH-040	975.54	V2FH-WCB-040	549.75
2	50	V2FH-050	1333.91	V2FH-WCB-050	746.09
2½	65	V2FH-065	2328.37	V2FH-WCB-065	1050.43
3	80	V2FH-080	2667.83	V2FH-WCB-080	1310.58
4	100	V2FH-100	4107.06	V2FH-WCB-100	2076.32
6	150	V2FH-150	10055.22	V2FH-WCB-150	4368.60

Price Group: SD

VS01

Available on request
- Ansi Class 300 in 316SS
- Ansi Class 150 in Ansi 300 in cast steel

M

ANSI 150 & Table E Ball Valves



Design:	SS Ball Valve flanged ANSI 150 lever operated
End Connection:	Flanged & drilled to ANSI 150LB / un-drilled / Table D/E
Body Materials:	CF8M (SS316), SS ball
Seat & Trim:	PTFE seat
Pressure:	ANSI 150 is 285PSI for water, oil & gas & corrosive fluids
Accessories:	Gear operated, electric & pneumatic actuated

Size NB		ANSI 150 Drilled		Drilled Table D/E	
inch	mm	Part No.	Price $	Part No.	Price $
½	15	V2F-150-015	269.49	---	---
¾	20	V2F-150-020	285.65	---	---
1	25	V2F-150-025	329.31	---	---
1¼	32	V2F-150-032	560.53	---	---
1½	40	V2F-150-040	646.76	---	---
2	50	V2F-150-050	854.16	V2F-150DR-050	970.16
2½	65	V2F-150-065	1390.54	V2F-150DR-065	1509.12
3	80	V2F-150-080	1537.73	V2F-150DR-080	1832.51
4	100	V2F-150-100	2356.91	V2F-150DR-100	2200.81
6	150	V2F-150-150	5184.93	V2F-150DR-150	5497.52
8	200	V2F-150-200	12396.38	---	---

Available on request
- Table E drilled valves ½" to 6"

Price Group: SD

VS01

Class 800 Fire Safe Forged Steel Ball Valve - BSP & NPT

Design:	Class 800 forged steel BS5351, API 598, ASME B1.20.1
End Connection:	Screwed Female: BSP, NPT & Socket Weld
Body Materials:	3 piece forged steel - ASTM A 105N
Seat & Trim:	R-PTFE, Ball-SS 304, Stem-A276 420
Pressure/Temp:	1975 PSI CWP: -29°C to 150°C
Application:	Petroleum, oil and gas, low pressure saturated steam, mining and industrial applications
Options:	Socket weld in forged steel, NPT valves in SS 316
Features:	Full bore
Other:	Class 1500 available in NPT

FIRE SAFE API 607



#800 A105N 3 Piece Ball Valve

Size		Working Pressure		BSP		NPT	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
½	15	1975	13.6	FSBVB-015	189.28	FSBVN-015	189.28
¾	20	1975	13.6	FSBVB-020	254.04	FSBVN-020	254.04
1	25	1975	13.6	FSBVB-025	328.75	FSBVN-025	328.75
1¼	32	1975	13.6	FSBVB-032	592.75	FSBVN-032	592.75
1½	40	1975	13.6	FSBVB-040	657.50	FSBVN-040	657.50
2	50	1975	13.6	FSBVB-050	826.86	FSBVN-050	826.86

Price Group: SD

VS01

Fire Safe Ball Valve - 2000 PSI SS 316

Design:	SS316 3 Piece, Full bore-ASME B16.34 Fire Safe Certified API 607
End Connection:	Screwed Female: BSP, NPT & Socket Weld
Body Materials:	Stainless steel 316 - ASTM A351 CF8M
Seat & Trim:	R-PTFE (25% carbon fibre), Ball-SS 316, Stem-A276 316
Pressure/Temp:	2000 PSI CWP: -29°C to 180°C
Application:	Petroleum, oil and gas, mining and general services
Options:	Pneumatic and electric actuation can be fitted and supplied
Features:	Full bore, ISO top, and locking lever
Other:	Available on request - socket weld end connection. Valves can be retro fitted with actuators

FIRE SAFE API 607



Fire Safe Certified - 2000PSI SS316 3 Piece API 607 Ball Valve

Size		Working Pressure		BSP		NPT	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
½	15	2000	13.8	SS3PFSB-015	258.75	SS3PFSN-015	258.75
¾	20	2000	13.8	SS3PFSB-020	322.21	SS3PFSN-020	322.21
1	25	2000	13.8	SS3PFSB-025	429.62	SS3PFSN-025	429.62
1¼	32	2000	13.8	SS3PFSB-032	615.13	SS3PFSN-032	615.13
1½	40	2000	13.8	SS3PFSB-040	820.18	SS3PFSN-040	820.18
2	50	2000	13.8	SS3PFSB-050	1044.75	SS3PFSN-050	1044.75

Price Group: SD

VS01

M

Stainless Steel One Piece Ball Valve



Design:	Standard port
End Connection:	Female x female BSP
Body Materials:	SS 316
Seat & Trim:	PTFE seat
Pressure:	15mm to 40mm rated to 800 PSI. 50mm rated to 600 PSI
Application:	For use with air, water, oil, gas & most chemicals. Locking device standard.

Size		Part No.	Price $
inch	mm		
¼	6	SS1P006	24.17
⅜	10	SS1P010	24.17
½	15	SS1P012	24.23
¾	20	SS1P020	29.49
1	25	SS1P025	44.24
1¼	32	SS1P032	71.62
1½	40	SS1P040	89.53
2	50	SS1P050	130.61

Price Group: SD

AR02

Two Piece SS Ball Valve



Design:	Full bore
End Connection:	Female x female BSP
Body Materials:	SS 316
Seat & Trim:	PTFE seat
Pressure:	15mm to 40mm rated to 800 PSI 50mm rated to 600 PSI
Application:	For use with air, water, oil, gas & most chemicals. Locking device standard.

Size		Part No.	Price $
inch	mm		
¼	6	SS2P006	34.63
⅜	10	SS2P010	34.85
½	15	SS2P012	37.56
¾	20	SS2P020	49.40
1	25	SS2P025	68.47
1¼	32	SS2P032	121.13
1½	40	SS2P040	147.46
2	50	SS2P050	208.55
2.5	65	SS2P065	423.15
3	75	SS2P075	888.62
4	100	SS2P100	1165.00

Price Group: SD

AR02

M

Two Piece SS Ball Valve - NPT



Design:	Two piece full bore
End Connection:	Female x female NPT
Body Materials:	SS 316 (ASTM A351 CF8M)
Seat & Trim:	Ball - SS 316 (ASTM A351 CF8M), Seat - PTFE
Pressure:	2000 PSI CWP for water, oil, gas and some corrosive fluids
Application:	For use with air, water, oil, gas & most chemicals where compatible with body and trim.
Features:	Fitted with lockable levers

Size		Part No.	Price $
inch	mm		
½	15	SS2P015-SL	59.05
¾	20	SS2P020-SL	75.16
1	25	SS2P025-SL	124.55
1¼	32	SS2P032-SL	168.53
1½	40	SS2P040-SL	266.29
2	50	SS2P050-SL	377.96

Price Group: SD

AR02

Stainless Steel Two Piece Ball Valve

Application:	For use with air, water, oil, gas & most chemicals which are compatible with body & trim
Design:	Two piece full bore
End Connection:	Female x female BSP
Body Materials:	Stainless steel SS316 (ASTM A351 CF8M)
Pressure:	1000 PSI CWP for water, oil, gas & some corrosive fluids
Feature:	Female x female: Fitted with lockable levers Male x female: Locking levers as standard with optional space saving levers ¼" to 1" on request.
Approvals:	Watermark Certified & Tested to API 598





Female x Female

Size		Part No.	Price $
inch	mm		
1/2	15	SS2P-12MM	34.24
3/4	20	SS2P-20MM	49.29
1	25	SS2P-25MM	68.49
1 1/4	32	SS2P-32MM	109.48
1 1/2	40	SS2P-40MM	153.06
2	50	SS2P-50MM	229.86
2 1/2	65	SS2P-65MM	415.09
3	80	SS2P-80MM	600.84
4	100	SS2P-100MM	1466.31

Price Group: SD

VS02



Male x Female

Size		Part No.	Price $
inch	mm		
1/4"	8	SS2P-MF-08MM	33.25
3/8"	10	SS2P-MF-10MM	47.86
1/2"	15	SS2P-MF-15MM	66.50
3/4"	20	SS2P-MF-20MM	65.69
1"	25	SS2P-MF-25MM	96.42
1 1/4"	32	SS2P-MF-32MM	132.59
1 1/2"	40	SS2P-MF-40MM	181.90
2"	50	SS2P-MF-50MM	245.83

Price Group: SD

VS02

M

Three Piece SS Ball Valve

Design:	Full bore
End Connection:	Female x female BSP
Body Materials:	SS 316
Seat & Trim:	PTFE seat
Pressure:	15mm to 40mm rated to 800 PSI 50mm to 100mm rated to 600 PSI
Application:	For use with air, water, oil, gas & most chemicals. Locking device standard.



Size		Part No.	Price $
inch	mm		
½	15	SS3P015	61.89
¾	20	SS3P020	71.35
1	25	SS3P025	103.30
1¼	32	SS3P032	163.27
1½	40	SS3P040	204.34
2	50	SS3P050	265.50
2½	65	SS3P065	547.71
3	80	SS3P075	768.90
4	100	SS3P100	1492.52

Price Group: SD

AR02

3 Piece SS Ball Valve with Pneumatic Actuator



Design:	Full bore fitted with double acting and spring return actuator. Direct mounted. Namur solenoids 5/2.
End Connection:	Female x Female BSP
Body Materials:	SS316
Pressure:	Min: external air pressure 5.5 bar
Approvals:	ISO5211 (mounting plate)
Options:	Limit switch box & open/close indicators are available as options
Application:	Most fluid applications and air or gas where compatible with valve, body and trim. Note: for dry applications please contact your nearest Dixon™ branch

Size		Double Acting Part No.	Price $	Spring Return Part No.	Price $
inch	mm				
½	15	SS3P015-ACT-DA	533.58	SS3P015-ACT-SR	560.53
¾	20	SS3P020-ACT-DA	571.32	SS3P020-ACT-SR	598.26
1	25	SS3P025-ACT-DA	619.82	SS3P025-ACT-SR	652.16
1¼	32	SS3P032-ACT-DA	706.05	SS3P032-ACT-SR	733.01
1½	40	SS3P040-ACT-DA	840.80	SS3P040-ACT-SR	873.13
2	50	SS3P050-ACT-DA	997.10	SS3P050-ACT-SR	1040.21
2½	65	SS3P065-ACT-DA	1595.37	SS3P065-ACT-SR	1633.09
3	80	SS3P080-ACT-DA	2252.90	SS3P080-ACT-SR	2587.07
4	100	SS3P100-ACT-DA	3541.06	SS3P100-ACT-SR	3945.30

Price Group: SD
VS02

3 Piece SS Ball Valve with Electric Actuator



Design:	Full bore, 240V AC. Open/Shut only.
End Connection:	Female x Female BSP
Body Materials:	SS316
Seat & Trim:	PTFE seats
Options:	24V AC/DC also available
Application:	Water, oil, gas and chemicals. Not suitable for dry applications

Size		Part No.	Price $
inch	mm		
½	15	SS3P015-EA	1290.10
¾	20	SS3P020-EA	1315.01
1	25	SS3P025-EA	1354.85
1¼	32	SS3P032-EA	1434.55
1½	40	SS3P040-EA	1504.29
2	50	SS3P050-EA	1613.87
2½	65	SS3P065-EA	4106.98
3	80	SS3P080-EA	4303.65
4	100	SS3P100-EA	5100.63

Price Group: SD
VS02

M

Stainless Steel 3 Way 'L' Port Ball Valve



Design:	Lever operated anti-static device with blow-out proof stem, ASTM A351-CF8M. ISO 5211
End Connection:	Female x Female x Female BSP
Body Material:	SS316
Seat & Trim:	Trim: SS316; Seats: PTFE
Pressure:	Rated to 1,000 PSI
Application:	For use with air, water, oil and gas

Size		Part No.	Price $
inch	mm		
½	15	SS3WL012	132.71
¾	20	SS3WL020	238.68
1	25	SS3WL025	249.52
1¼	32	SS3WL032	433.96
1½	40	SS3WL040	520.75
2	50	SS3WL050	748.57

Price Group: SD
AR02

3 Way Standard Brass Ball Valve, L & T Port

Design:	Lever operated
End Connection:	Screwed Female BSP
Body Material:	Nickel-plated brass
Seat & Trim:	PTFE seats
Temperature:	Air: -15°C to 150°C Water: 0°C to 150°C without steam
Application:	Domestic water services, heating and air-conditioning plants, compressed air systems. Available with a T or L-drilled ball.



Size		Working Pressure		L Port		T Port	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
¼	6	360	2.5	BBV3WL006	101.51	BBV3WT006	101.51
⅜	10	360	2.5	BBV3WL010	101.51	BBV3WT010	101.51
½	15	360	2.5	BBV3WL012	101.51	BBV3WT012	101.51
¾	20	360	2.5	BBV3WL020	170.23	BBV3WT020	170.23
1	25	360	2.5	BBV3WL025	224.07	BBV3WT025	224.07
1¼	32	360	2.5	BBV3WL032	352.86	BBV3WT032	288.23
1½	40	360	2.5	BBV3WL040	457.90	BBV3WT040	489.79
2	50	360	2.5	BBV3WL050	676.87	BBV3WT050	676.87

Price Group: SD

AR01

Ball Valve Bibcock without Hose Connection

Design:	Lever Tap
End Connection:	ISO228 (equivalent to DIN259 and BS2779)
Body Materials:	Nickel-plated brass
Temperature:	-20°C to 80°C
Pressure:	Max 220 PSI
Application:	Water, irrigation



art.178

Size		Part No.	Working Pressure		Price $
inch	mm		PSI	MPa	
½ x ¾	15 x 20	BB015020	220	1.5	19.92
¾ x ¾	20 x 20	BB020	220	1.5	17.68

Price Group: SD

FP08

Brass Ball Valve - Lever Operated Nozzle

Design:	Brass ball valve, complete with lever operated nozzle to suit 20mm hose.
End Connection:	¾" Hosetail
Body Materials:	Brass
Temperature:	-10° to 110°C
Application:	Water, irrigation



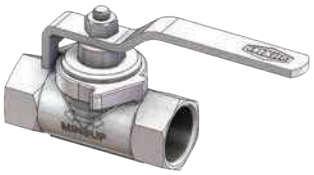
Size		Part No.	Price $
inch	mm		
¾	20	FFS-HRN-BALL	33.48

Price Group: FE

FP08

Econovalves™ - Ball Valves

minsup





¾" & 1" BSPF RANGE





1 1/2" & 2 " BSPF RANGE

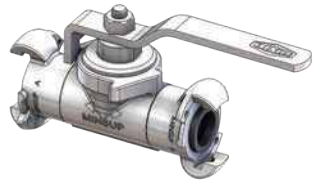
Design:	Solid construction with unique one piece ball and stem provides positive on/off action. In-line maintenance is easy for the top loading ¾" and 1" range, and the 3 piece 1½" and 2" range.
Body Materials:	Spheriodal graphite cast iron to ISO 1083; 400-250-15 SGI
Seals:	Nitrile Butadiene
Handle:	Spheroidal graphite cast iron to ISO 1083 (1½" - 2") All other sizes have pressed mild steel handles
Ball & Stem:	Spheroidal graphite cast iron to ISO 1083; Chrome copper plated to AS1192
Seats & Trim:	Nitrile Butadiene
Bolts:	Hex, M10 x 1.5 x 90, Grade 8.8, black
Nuts:	Hex, M10 x 1.5, zinc plated, Grade 8
Temperature:	-20° to 80°C
Options:	Refer Econovalve Lockout device 419
Application:	General purpose Ball Valve suitable for mining and industrial applications.
Working Pressure:	½ to 1" = 500 PSI WP 1½ to 2" = 300 PSI WP

BSP Female x BSP Female				
Size (inch)	**Part No.**	**Price $**	**Part No.**	**Price $**
	Standard		Lockout	
½	---	---	08/062/03/000	97.95
¾	---	---	08/062/114/00LO	66.20
1	08/062/113/00	56.24	08/062/113/00LO	60.77
1½	---	---	08/062/847/00LO	201.40
2	08/062/848/00	149.88	08/062/848/00LO	158.27
NPTF x NPTF Standard				
1	08/062/102/00	65.66	08/062/102/00LO	57.51

Price Group: MS

AB01

M





'A' Type x 'A' Type				
Size (inch)	**Part No.**	**Price $**	**Part No.**	**Price $**
	Standard		Lockout	
1	08/062/110/00	69.39	08/062/110/00LO	74.15

Price Group: MS

AB01

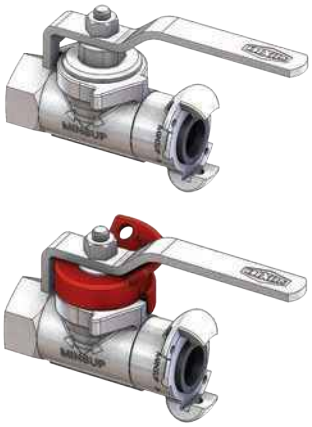
Econovalves™ - Ball Valves

minsup

1" BSP Female x 'A' Type				
Size (inch)	Part No.	Price $	Part No.	Price $
	Standard		Lockout	
1	08/062/104/00	67.12	08/062/104/00LO	67.12

Price Group: MS

AB01



1" BSP Female x 2" Shouldered				
Size (inch)	Part No.	Price $	Part No.	Price $
	Standard		Lockout	
1	08/062/118/00	72.56	08/062/118/00LO	87.07

Price Group: MS

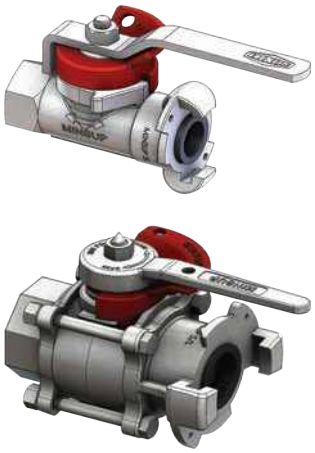
AB01



Female Thread x Surelock		
Size (inch)	Part No.	Price $
Lockout		
To suit Surelock sizes ⅜" - 1¼"		
1 (BSP)	08/062/172/00LO	88.99
1 (NPT)	08/062/108/00LO	74.15
To suit Surelock sizes 1½" - 2"		
2 (BSP)	08/062/868/00LO	193.56

Price Group: MS

AB01



M

Econovalves™ with Lockout Device - Ball Valves

minsup



BSP Female x Shouldered		
Size (inch)	**Part No.**	**Price $**
Lockout		
2	08/062/56/000LO	155.55

Price Group: MS

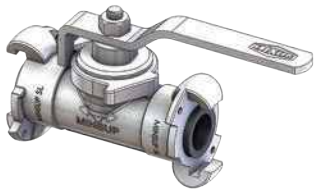
AB01



Shouldered x Shouldered		
Size (inch)	**Part No.**	**Price $**
Lockout		
2	08/062/849/00LO	169.62

Price Group: MS

AB01





1" RANGE

Surelock x Surelock				
Size (inch)	**Part No.**	**Price $**	**Part No.**	**Price $**
	Standard		Lockout	
To suit Surelock sizes ⅜" - 1¼"				
1 (BSP)	08/062/111/00	76.19	08/062/111/00LO	81.29

Price Group: MS

AB01



2 " RANGE

Surelock x Surelock		
Size (inch)	**Part No.**	**Price $**
Lockout to suit Surelock sizes 1½" - 2"		
1 (BSP)	08/062/869/00LO	212.70

Price Group: MS

AB01

Minsup™ Econovalve™ Ball Valve Lockout Device

minsup

Design:	Designed to retrofit all existing Minsup™ Econovalve™ configurations. Easy to install. Lock open / lock closed.
Body Materials:	SG Iron ISO 1083, 1987: 400-250-15
Approvals:	Design registration: 200614656



ELOK100C

Size (inch)	Part No.	Description	Price $
1	ELOK100C	For ¾" and 1" configurations	39.69
2	ELOK200C	For 1½" and 2" configurations	51.03

Price Group: SD

AB01



ELOK200C

Mining Brass Water Valves (Bendigo Valve)

minsup

End Connection:	½" BSP Male
Body Materials:	Brass
Application:	Mine Water Valves, or Bendigo Taps, protect air leg rock drills from dirty mine water utilising a filter mesh to ensure tools are protected from foreign matter.
Features:	A forged body



Size	Part No.	Price $
½" (15mm) Male/Male	05/062/01/000	162.82

Price Group: SD

AR01

M

Brass GP Gate Valves



Design:	Iron handwheel, adjustable packing nut, integral seat
End Connection:	Screwed Female BSP
Body Materials:	Brass
Wedge:	Brass solid wedge disc
Pressure:	Maximum of 1600KPA CWP
Application:	For pumping, irrigation, light industrial and domestic and rural services

Size (mm)	Part No.	Price $
15	GV050B	20.17
20	GV075B	27.07
25	GV100B	38.49
32	GV125B	54.67
40	GV150B	68.49
50	GV200B	105.65
65	GV250B	238.89
80	GV300B	297.27
100	GV400B	504.32

Price Group: SD

VB04

Gate Valve DZR Tested - AS1628

Certified Product
Australian Standard
AS1628

WaterMark



Design:	Iron handwheel, adjustable packing nut, integral seat
End Connection:	Screwed Female BSP
Body Materials:	DZR brass
Wedge:	DZR solid wedge disc
Temperature:	99°C @ 1.7 MPa
Approvals:	Complies with requirements of AS1628 Water Mark approved LIC
Options:	T bar handle available on selected sizes on request
Application:	For industrial, pneumatic & hydraulic

Size (mm)	Part No.	Working Pressure		Price $
		PSI	MPa	
15	V15GVT	360	2.5	30.99
20	V20GVT	360	2.5	41.15
25	V25GVT	360	2.5	55.77
32	V32GVT	360	2.5	89.05
40	V40GVT	360	2.5	120.29
50	V50GVT	360	2.5	157.66
65	V65GVT	360	2.5	317.14
80	V80GVT	360	2.5	478.05

Price Group: SD

VB05

M

Stainless Steel Screwed Gate Valve



Design:	Adjustable packing & CI hand wheel
End Connection:	Screwed Female BSP
Body Materials:	316 stainless steel
Pressure:	200 PSI
Temperature:	-20 to 232°C for water, oil, gas & corrosive fluids

Size NB (mm)	Part No.	Price $
15	SGV-015	96.06
20	SGV-020	88.95
25	SGV-025	120.09
32	SGV-032	208.15
40	SGV-040	277.55
50	SGV-050	275.77

Price Group: SD

VS01

Class 800 Forged Steel Gate - BSP & NPT

Design:	Class 800 forged steel BS5351, API 602, ASME B1.20.1
End Connection:	Screwed Female: BSP or NPT
Body Materials:	Forged steel - ASTM A 105N
Seat & Trim:	Seat- ASTM A276 420, Wedge & Stem- ASTM A182 F6a
Pressure/Temp:	1975 PSI CWP- -20°C - 380°C
Application:	Petroleum, oil and gas, low pressure steam. General services up to 425°C
Options:	Socket weld in forged steel, SS 316 available in screwed NPT
Features:	OS&Y, Bolted Bonnet, F/Bore, Solid Wedge
Other:	Class 1500 available in NPT ends



#800 A105N Gate Valve

Size		Working Pressure		BSP		NPT	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
½	15	1975	13.6	FSGVB-015	115.00	FSGVN-015	115.00
¾	20	1975	13.6	FSGVB-020	135.61	FSGVN-020	135.61
1	25	1975	13.6	FSGVB-025	176.84	FSGVN-025	176.84
1¼	32	1975	13.6	FSGVB-032	260.38	FSGVN-032	260.38
1½	40	1975	13.6	FSGVB-040	323.29	FSGVN-040	323.29
2	50	1975	13.6	FSGVB-050	474.10	FSGVN-050	474.10

Price Group: SD

VS01

M

Grooved Gate Valves Fig GVR-G-1161

Available while stocks last!



Design:	Rising stem OS&Y Gate Valve
End Connection:	Roll Grooved
Body Materials:	Cast iron body with wedge, Bronze seat
Pressure:	Max working pressure 1,600kPa at -10 to 100°C.
Approvals:	Conforms to BS 5150. Grooved ends are made in accordance with metric standard pipe.
Application:	For fire protection & distribution services. Water, oil & gas.

Face to Face Dim	Part No.	Size NB (mm)	Pipe OD (mm)	Price $
203	GVR-G-1161-080	80	88.9	533.98
229	GVR-G-1161-100	100	114.3	664.95
267	GVR-G-1161-150	150	165.1	894.66
292	GVR-G-1161-200	200	219.1	1294.64

Price Group: FE

VC05

Monitored Grooved Gate Valves



Design:	Rising stem OS&Y Gate Valve with Class B Switches
End Connection:	Roll Grooved
Body Materials:	Ductile iron with resilient wedge
Application:	Suitable for applications where valves with supervisory switches are required eg fire distribution services.
Mon Device:	Class B - Potter - UL / FM

Face to Face Dim	Part No.	Size NB (mm)	Pipe OD (mm)	Price $
203	VG172-OSYG80ATS	80	88.9	1573.92
229	VG172-OSYG100ATS	100	114.3	1564.62
267	VG172-OSYG150ATS	150	165.1	2079.71
292	VG172-OSYG200ATS	200	219.1	3398.22

Note: Supplied in kit form for assembly at site.

Price Group: SD

VC04

Grooved Gate Valves Fig F0122-200



Design:	Resilient seated EPDM encapsulated wedge. OS&Y.
Body Materials:	Ductile iron
Pressure:	Max working pressure 1400/1600 kPa at -0.6C to 52°C.
Application:	For fire protection & distribution services. Water, sewerage & neutral liquids.

Face to Face Dim	Part No.	Size NB (mm)	Pipe OD (mm)	Price $
191	VG172-OSY-G80	80	88.9	944.35
229	VG172-OSY-G100	100	114.3	998.00
267	VG172-OSY-G150	150	165.1	1513.10
292	VG172-OSY-G200	200	219.1	2768.66
356	VG172-OSY-G250	250	273	3994.87

Price Group: SD

VC03

Shouldered Gate Valves Fig GVNR-S-1161

Design:	Non-rising stem Gate Valve. Shoulder dimensions are made in accordance with metric pipe.
End Connection:	Shouldered
Body Materials:	Ductile iron body, Stainless steel stem, bronze seat
Wedge:	Cast iron wedge
Approvals:	Conforms to BS5150 - PN20 rated
Application:	Water and slurry applications - mining



Face to Face Dim	Part No.	Size NB (mm)	Price $
229	GVNR-S-1161-100	100	819.85
267	GVNR-S-1161-150	150	1639.71

Price Group: SD

VC05

Monitored Gate Valves Table E, Ductile Iron Flanged Fig F0111-200

Design:	OS&Y Gate Valve
End Connection:	Flanged, Table D/E, AS2129
Body Materials:	Ductile Iron, ASTM A126 Class B
Wedge:	EPDM encapsulated wedge, Resilient seated
Temperature:	Pressure temperature rating 1400/ 1600kPa @ 0.6°C to 52°C
Approvals:	UL/FM approved
Application:	For water, sewerage & neutral liquids. Bubble tight shut off. Suitable for fire protection and distribution services. Valves with supervisory switches are required eg fire distribution services.
Mon Devices:	Class B - Potter - UL / FM - Standard
Options:	Australian standard, Switch



Face to Face Dim	Part No.	Size NB (mm)	Price $
229	VG172-OSYE100ATS	100	1564.62
267	VG172-OSYE150ATS	150	2079.71
292	VG172-OSYE200ATS	200	3398.22
330	VG172-OSYE250ATS	250	4793.27
356	VG172-OSYE300ATS	300	6810.76

Note: Supplied in kit form for assembly at site.

Price Group: SD

VC04

Gate Valves Fig GVRC-1161

Design:	OS&Y Gate Valve
End Connection:	Flanged, AS2129 Table D/E
Body Materials:	Cast iron body with wedge, bronze seat
Temperature:	Pressure temperature rating 1600kPa at -10 to 120°C.
Approvals:	Conforms to BS5150, MSS SP-70. Flange conforms to BS 4504 PN 16, ANSI 125 and drilled to Table E.
Application:	Water, oil & gas



Face to Face Dim	Part No.	Size NB (mm)	Price $
190	GVRC1161-065	65	670.94
203	GVRC1161-080	80	944.35
229	GVRC1161-100E	100	690.26
229	GVRC1161-100D	100	690.26
267	GVRC1161-150	150	1261.55
292	GVRC1161-200	200	2131.63
330	GVRC1161-250	250	4760.68
356	GVRC1161-300	300	3770.41

Note: Sizes 350-600 available on request.

Price Group: SD

VC05

NRS Gate Valves Fig 3243



Design:	Non-rising stem Gate Valve
End Connection:	Flanged, drilled Table E, AS2129
Body Materials:	Ductile iron body, stainless steel stem, fusion bonded epoxy coated
Wedge:	Resilient wedge - EPDM encapsulated
Temperature:	16 bar pressure rated at -10°C to 120°C
Approvals:	Designed and tested to BS5163
Application:	For water, sewerage and neutral liquids

Face to Face Dim	Part No.	Size NB (mm)	Price $
191	GVNR-RW-1161-65	65	763.54
203	GVNR-RW-1161-80	80	653.79
229	GVNR-RW-1161-100	100	735.51
267	GVNR-RW-1161-150	150	1225.90
292	GVNR-RW-1161-200	200	3519.61
330	GVNR-RW-1161-250	250	4648.64
356	GVNR-RW-1161-300	300	6198.20

Price Group: SD
VC05

Ductile Iron Flanged Gate Valves Fig F0111-200



Design:	OS&Y Gate Valve
End Connection:	Flanged, Table D/E, AS2129
Body Materials:	Ductile Iron, A53665-45-12
Wedge:	EPDM encapsulated wedge, Resilient seated
Temperature:	Pressure temperature rating 1400/ 1600kPa @ 0.6°C to 52°C
Approvals:	UL/FM approved
Application:	For water, sewerage & neutral liquids. Bubble tight shut off. Suitable for fire protection and distribution services.

Face to Face Dim	Part No.	Size NB (mm)	Price $
190	VG172-OSY-E65	65	901.42
203	VG172-OSY-E80	80	944.35
229	VG172-OSY-D100	100	998.00
229	VG172-OSY-E100	100	998.00
267	VG172-OSY-E150	150	1513.10
292	VG172-OSY-E200	200	2768.66
330	VG172-OSY-E250	250	4163.71
356	VG172-OSY-E300	300	6181.18

Price Group: FE
VS01

M

Stainless Steel OS&Y Gate Valves



Design:	To API 603 / ASME B1634
End Connection:	Flanged ANSI 150LB is standard
Body Materials:	316 Stainless steel (CF8M)
Pressure:	285 PSI for water, oil & gas & corrosive fluids
Options:	Available on request: - drilled table D/E up to 150NB - 316 stainless steel valves drilled to table E - cast steel in 150# and 300# ANSI

Size NB (mm)	Part No.	Price $
65	VGA-150-065	1929.53
80	VGA-150-080	2802.66
100	VGA-150-100	3763.83
150	VGA-150-150	5825.40
200	VGA-150-200	11318.44
250	VGA-150-250	25870.71
300	VGA-150-300	44626.98

Price Group: SD
VS01

ANSI 150 Cast Steel Gate Valves - API 600

Design:	ANSI 150 Cast Steel, OS&Y - ASME B16.34 & API 600
End Connection:	Flanged ANSI 150#
Body Materials:	Cast steel - ASTM A105
Seat & Trim:	Seat ring - 2Cr13, Stem - 2Cr13, Disc - 2Cr13 + STL
Pressure/Temp:	285 PSI CWP
Application:	Petro-Chemical, oil and gas, mining, power and general services
Options:	Sizes in ½" to 1½" ANSI 150 also available on request
Features:	OS&Y, Bolted Bonnet, Full Bore, Solid Wedge
Other:	ANSI 300 and 600 also available in gate, globe and check valves



Cast Steel Gate Valve ANSI 150

Size		Flange	CWP	WP	Part No.	Price $
inch	mm		PSI	MPa		
2	50	ANSI 150	285	1.965	VGA-CS-150-050	791.97
2½	65	ANSI 150	285	1.965	VGA-CS-150-065	1087.00
3	80	ANSI 150	285	1.965	VGA-CS-150-080	1116.49
4	100	ANSI 150	285	1.965	VGA-CS-150-100	1536.96
6	150	ANSI 150	285	1.965	VGA-CS-150-150	2386.33
8	200	ANSI 150	285	1.965	VGA-CS-150-200	4122.58
10	250	ANSI 150	285	1.965	VGA-CS-150-250	5966.90
12	300	ANSI 150	285	1.965	VGA-CS-150-300	8071.58

Price Group: SD

VS01

Post Indicator Flanged Gate Valves Fig F0211-200

Design:	Design and dimensions to AWWA C509.
End Connection:	Flanged Table E AS2129 or ANSI 125
Body Materials:	Cast iron body, ASTM A126 CL. B
Wedge:	Resilient seated wedge, EPDM encapsulated
Pressure:	Maximum working pressure 1,400 kPa @ 0.6°C to 52°C
Approvals:	UL/FM Approved
Options:	Other flanges available on request
Application:	Fire protection and distribution services, water, sewerage & neutral liquids.



Face to Face Dim	Part No.	Size NB (mm)	Price $
190	VF-GVNR-RW-065E	65	1119.00
203	VF-GVNR-RW-080E	80	1173.59
229	VF-GVNR-RW-100E	100	1228.18
267	VF-GVNR-RW-150E	150	1866.83
292	VF-GVNR-RW-200E	200	3438.90
330	VF-GVNR-RW-250E	250	5158.35
356	VF-GVNR-RW-300E	300	7642.01
---	VF-PI	65-300 post	2210.73

Lead time 16 to 20 weeks approx.

Price Group: SD

VC02

M

Sluice Gate Valves

Certified Product
Australian Standard
AS2638.2

WaterMark





Design:	Spindle cap operated and clockwise closing. Bubble tight shut off.
End Connection:	Flanged Table D, AS2129
Body Materials:	Ductile Iron Flange, FBE coated body
Wedge:	EPDM encapsulated wedge, resilient seated to AS 2638.2
Temperature:	Pressure temperature. Rating 1,600 kPa at 70°C.
Approvals:	Certified to AS2638.2
Options:	Hand wheel and anti clock closing
Application:	Fabricated T handle valve key used to open spindle cap operated sluice valves that are installed in points in the ground. These keys can be fabricated to customer requirements if required

Face to Face Dim	Part No.	Size NB (mm)	Price $
203	V57SV-80	80	810.14
229	V57SV-100	100	838.76
267	V57SV-150	150	1599.48
292	V57SV-200	200	2887.40
330	V57SV-250	250	5297.01
356	V57SV-300	300	6044.77
T Handle Valve Key			
-	FKG-VK	-	421.86

Hand wheels and T handle sold separately

Price Group: SD

VS01

Hand Wheels for AS2638.2 Sluice/Gate Valves



Application:	Suit AS2638.2 sluice/gate valve

Part No.	Description	Price $
Hand Wheel - Ductile Iron		
V57SVHW-100	80mm & 100mm	67.63
V57SVHW-150	150mm	154.59
V57SVHW-200	200mm	154.59
V57SVHW-300	250mm & 300mm	357.48

Price Group: SD

VC01

Knife Gate Valves

M



Full SS 316 Body
Lugged Table D



Cast Iron Body
Semi-Lugged
Table D/E

Design:	Knife Gate Valves are available in either full stainless steel 316 lugged, or cast iron body wafer/lugged.
End Connection:	Lugged Table D and wafer semi lugged table D/E
Body Materials:	SS 316 or Cast Iron
Knife:	SS 316 valve, cast iron is SS 304
Pressure:	Rated to 10 bar (1,000 kpa)
Seat:	Stainless steel valves standard seat is metal to metal, EPDM and FKM available. Cast iron valves standard seat is NBR or EPDM
Application:	Water, slurry, sewerage etc

Size (mm)	Stainless Steel Lugged T/D		Cast Iron Body Wafer Semi-Lugged	
	Part No.	Price $	Part No.	Price $
80	VKG-080-SS	2523.99	VKG-080	1802.85
100	VKG-100-SS	2683.67	VKG-100	1849.20
150	VKG-150-SS	3739.62	VKG-150	2513.69
200	VKG-200-SS	5475.50	VKG-200	3657.20
250	VKG-250-SS	8421.86	VKG-250	4728.62
300	VKG-300-SS	10641.95	VKG-300	7072.31

Note: Sizes up to 600mm available on request.
Cylinders, electric actuators available on request.

Price Group: SD

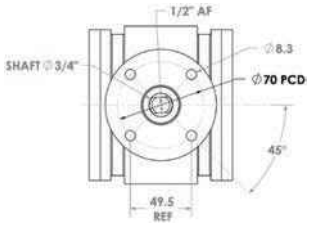
VC05

Minsup™ Shouldered Butterfly Valves

minsup

Design:	Lever operated, corrosion resistant stainless steel disk and shaft. Lever can be padlocked out in any of 11 positions. Nitrile Butadiene lining is moulded to the body. Disc has high flow coefficient design which minimizes flow resistance and cavitation.
End Connection:	Shouldered
Body Materials:	Body - SG Iron to ISO 1083; 400-250-15 Lining - Nitrile Butadiene - 70 Duro hardness Disc - Cast SS Grade CF8M to ASTIMA351 Handle - SG Iron ISO 1083;400-250-15 Shaft - Grade 316 Stainless Steel
Seats & Trim:	Nitrile Butadiene lining
Actuator:	Lever as standard
Temperature:	Min -20ºC Max 60ºC
Pressure:	Water: 2000 kPa, 290 PSI Air: 1034 kPa, 150 PSI
Standards:	Shouldered ends in accordance with ANSI/AWWA C606 Actuator mounting flange in accordance with AS5211
Options:	Actuation available on request. Optional operators include manual gearbox and pneumatic actuator.
Application:	Mining Industry





Lever Operated			
Size NB (mm)	**Part No.**	**Face to Face Dimensions (mm)**	**Price $**
100	08/002/374/00	116	611.24
150	08/002/574/00	149	1082.27

Price Group: MS

AB02

Mounting pads are the same on 4" and 6" Minsup™ valves.
Handles and actuators will interchange between 4" and 6" Minsup™ valves.

316 Stainless Steel Wafer & Lugged Butterfly Valves



Design:	Butterfly valve, wafer and fully lugged, lever operated
End Connection:	Wafer Type fits between Table E, Lugged valve is to AS2129 table E
Body Materials:	Stainless Steel 316 (CF8M)
Seats & Trim:	Stem: SS316, Seat: PTFE (Epdm encapsulated)
Pressure:	PN10 or 1000KPA
Application:	Petro - Chemical, Oil & Gas, Marine, & Industrial applications
Options:	Lugged ANSI Class 150 available on request.
Accessories:	Gear Operators , Pneumatic & Electric Actuators
Features:	ISO top for direct mounting of actuators & SS lever & Notch plate



Wafer

Size NB (inch)	Size NB (mm)	Wafer Table E		Lugged Table E	
		Part No.	**Price $**	**Part No.**	**Price $**
1 1/2	40	BFVW-SS-040	629.69	---	---
2"	50	BFVW-SS-050	629.69	BFVL-SS-050	779.45
2 1/2	65	BFVW-SS-065	740.51	BFVL-SS-065	923.52
3	80	BFVW-SS-080	841.26	BFVL-SS-080	1017.58
4	100	BFVW-SS-100	1057.88	BFVL-SS-100	1478.30
6	150	BFVW-SS-150	1894.10	BFVL-SS-150	2281.13
8	200	BFVW-SS-200	3093.03	BFVL-SS-200	3722.71



Lugged

Price Group: SD

VS02

M

Wafer Butterfly Valves







Design:	Wafer butterfly valve, lever or gear operated
End Connection:	Wafer fits Table E & ANSI 150/125
Body Materials:	Cast and ductile iron body
Seats & Trim:	SS 316 trim, EPDM seat
Application:	Suitable for water, process systems etc.

Face to Face Dim	Body Material	Part No.	Size NB (mm)	Cold WP (kPa)	Price $
with Lever Handle					
43	cast iron	VBF-IBFW050	50	1,600	140.14
46	cast iron	VBF-IBFW065	65	1,600	167.08
46	cast iron	VBF-IBFW080	80	1,600	162.74
52	cast iron	VBF-IBFW100	100	1,600	195.28
56	cast iron	VBF-IBFW125	125	1,600	366.49
56	cast iron	VBF-IBFW150	150	1,600	347.16
60	cast iron	VBF-IBFW200	200	1,600	640.09
68	cast iron	VBF-IBFW250	250	1,600	1293.53
78	cast iron	VBF-IBFW300	300	1,600	1805.56
78	ductile iron	VBF-IBFW350*	350	1,000	2177.45
84	ductile iron	VBF-IBFW400*	400	1,000	4054.12
103	ductile iron	VBF-IBFW450*	450	1,000	6898.86
127	ductile iron	VBF-IBFW500*	500	1,000	9033.19
150	ductile iron	VBF-IBFW600*	600	1,000	14616.96

* Gear Operator is standard 350mm - 600mm EPDM standard (no options)
Note: 50mm - 300mm EPDM standard (nitrile, FKM & PTFE options available).

Price Group: SD

VF06

Face to Face Dim	Body Material	Part No.	Size NB (mm)	Price $
STD - Lugged Table E				
43	cast iron	LSSE050H	50	150.91
46	cast iron	LSSE065H	65	183.25
46	cast iron	LSSE080H	80	210.19
52	cast iron	LSSE100H	100	296.44
56	cast iron	LSSE125H	125	431.17
56	cast iron	LSSE150H	150	499.05
60	cast iron	LSSE200H	200	711.44
68	cast iron	LSSE250H	250	1509.12
78	cast iron	LSSE300H	300	2015.76

Also available in 350mm - 600mm & ANSI 150.
250 & 300NB are gear box operated

Price Group: SD

VF05

Cast Iron “Water Mark" Lugged Wafer Butterfly Valves

M

WaterMark



Design:	Butterfly valve, lever or gear operated
End Connection:	Lugged to Table E
Body Materials:	Cast iron body
Seats & Trim:	SS 316 trim, EPDM seat
Approvals:	Australian Water Marked PN16
Options:	Lugged table E with gear box

Face to Face Dim	Part No.	Size NB (mm)	Price $
Lugged (Lever Operated)			
43	VBF-IBFL0050	50	246.22
46	VBF-IBFL0065	65	271.80
46	VBF-IBFL0080	80	342.17
52	VBF-IBFL0100	100	443.39
56	VBF-IBFL0125	125	627.68
58	VBF-IBFL0150	150	749.02
60	WDSE200H	200	1065.76
68	WDSE250H	250	1744.25
78	WDSE300H	300	2903.54
Lugged (Gear Operated)			
46	VBFLW-80-GEAR	80	498.86
52	VBF-IBFL100	100	635.00
56	WSSE125G	125	689.41
58	VBF-IBFL150	150	984.93
60	VBF-IBFL0200	200	1472.50
68	VBF-IBFL0250	250	2128.49
78	VBFLW-300-GEAR	300	3386.12

Price Group: SD

VF05

Wafer Actuated Pneumatic Butterfly Valves

Design:	Wafer type ISO 5211. Direct mounted, Namur solenoids 5/2
End Connection:	Wafer Table E standard. Lugged to Table E optional
Actuator:	Double acting and spring return
Pressure:	Minimum external air pressure 5.5 bar
Options:	Limit switch box, Namur solenoids and positioners
Application:	Most fluid applications and air or gas where compatible with valve, body and trim. Note: For dry applications contact your nearest Dixon™ branch.



Part No.	Size NB (mm)	Price $
Double Acting		
VBF-IBFW050-DA	50	598.26
VBF-IBFW065-DA	65	635.99
VBF-IBFW080-DA	80	662.93
VBF-IBFW100-DA	100	851.58
VBF-IBFW125-DA	125	1077.95
VBF-IBFW150-DA	150	1185.75
VBF-IBFW200-DA	200	1730.11
VBF-IBFW250-DA	250	2932.02
VBF-IBFW300-DA	300	5993.38
Spring Return		
VBF-IBFW050-SR	50	625.21
VBF-IBFW065-SR	65	754.57
VBF-IBFW080-SR	80	781.51
VBF-IBFW100-SR	100	975.54
VBF-IBFW125-SR	125	1298.93
VBF-IBFW150-SR	150	1492.95
VBF-IBFW200-SR	200	2058.88
VBF-IBFW250-SR	250	3740.47
VBF-IBFW300-SR	300	7966.01

Price Group: SD

VF07

Electric Actuated Butterfly Valves

Design:	Wafer type
End Connection:	Wafer Table E standard, lugged to Table E optional.
Body Materials:	Cast Iron, SS Trim, EPDM Seat
Actuator:	240V AC is standard
Application:	Can also be supplied for regulating with a 4-20Ma modulating controller. Not suitable for dry applications. Open/Shut only.



Part No.	Size NB (mm)	Price $
VBF-IBFW050-EA	50	1864.85
VBF-IBFW065-EA	65	1872.93
VBF-IBFW080-EA	80	1937.61
VBF-IBFW100-EA	100	2066.97
VBF-IBFW150-EA	150	4845.37
VBF-IBFW200-EA	200	5864.03
VBF-IBFW250-EA	250	7049.76
VBF-IBFW300-EA	300	7855.54

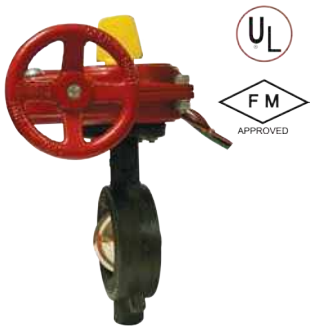
Standard unti is 240V AC. 24V AC/DC on request.

Price Group: SD

VF07

M

Monitored Wafer Butterfly Valves Fig DW

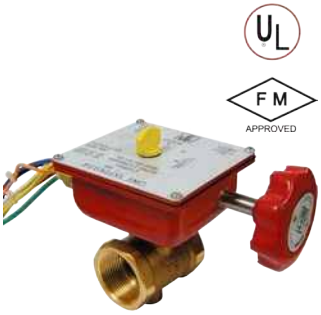


Design:	Gear operated monitored butterfly valve
End Connection:	Fits between ANSI 125 and Table E Flanges.
Body Materials:	Ductile iron body, A1 bronze disc, nickel chrome plated
Seats & Trim:	EPDM Encapsulated
Pressure:	175 PSI
Application:	Designed to initiate a signal at appropriate supervisory equipment to show whether a valve is open or closed. Suitable for fire protection and distribution systems

Face to Face Dim	Part No.	Size NB (mm)	Price $
52	VFBFW-114-GEAR	100	657.54
56	VFBFW-165-GEAR	150	1137.55
60	VFBFW-219-GEAR	200	1616.02

Price Group: SD
VB03

Screwed BSP Bronze Monitored Butterfly Valves Fig BT

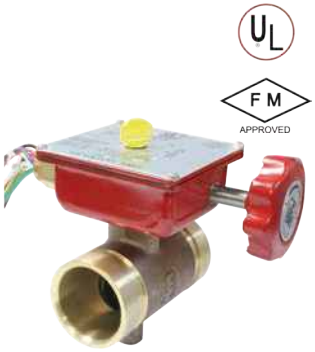


Design:	Gear operated monitored butterfly valve
End Connection:	Screwed BSP
Body Materials:	A1 bronze disc
Seats & Trim:	EPDM encapsulated
Pressure:	Max 175 PSI at 0°C to 120°C
Application:	Designed to initiate a signal at appropriate supervisory equipment to show whether a valve is open or closed. Fire protection and distribution systems.

Face to Face Dim	Part No.	Size NB (mm)	Price $
54	VGBBB-34-GEAR	25	417.59
67	VGBBB-43-GEAR	32	433.09
73	VGBBB-48-GEAR	40	447.52
82.4	VGBBB-60-GEAR	50	561.71

Price Group: FE
VB03

Grooved Bronze Monitored Butterfly Valves Fig BG



Design:	Gear operated monitored butterfly valve
End Connection:	Grooved
Body Materials:	A1 bronze disc
Seats & Trim:	EPDM encapsulated
Pressure:	Max 175 PSI at 0°C to120°C
Application:	Designed to initiate a signal at appropriate supervisory equipment to show whether a valve is open or closed. Suitable for fire protection and distribution systems

Face to Face Dim	Part No.	Size NB (mm)	Price $
114	VGBBF-60-GEAR	50	534.82

Price Group: FE
VF01

Grooved Mon Ductile Iron Butterfly Valves Fig HPG



Design:	Gear operated monitored butterfly valve
End Connection:	Grooved
Body Materials:	A1 bronze disc
Seats & Trim:	EPDM encapsulated
Pressure:	Max 300 PSI at 0°C to 120°C
Application:	Designed to initiate a signal at appropriate supervisory equipment to show whether a valve is open or closed. Suitable for fire protection and distribution systems

Face to Face Dim	Part No.	Size NB (mm)	Price $
96.4	VGBFHP-76-GEAR	65	536.80
96.4	VGBFHP-88-GEAR	80	556.22
115.4	VGBFHP-114-GEAR	100	596.04
132.4	VGBFHP-165-GEAR	150	836.76
147.7	VGBFHP-200	200	1219.76

Price Group: FE
VF02

M

Grooved Butterfly Valves C/W Gear Operator Fig HGG

Design:	Gear operated butterfly valve
End Connection:	Grooved
Body Materials:	Ductile iron body and disc
Seats & Trim:	EPDM encapsulated
Temperature:	Max 120°C
Pressure:	Max 2100kPa (300 PSI)
Application:	Water, air and neutral liquids



Face to Face Dim	Part No.	Size NB (mm)	Price $
115	VGBFNM-114-GEAR	100	766.37
145	VGBFNM-165-GEAR	150	1291.26
148	VGBFHP-200-GOP	200	1449.00
159	VGBFHP-250-GOP	250	2074.44
159	VGBFHP-300-GOP	300	2513.73

Price Group: FE

VF04

Grooved Butterfly Valves C/W Lever & Notch PlateFig HGL

Design:	Grooved lever operated butterfly valve
End Connection:	Grooved
Body Materials:	Ductile iron body and disc
Seats & Trim:	EPDM encapsulated
Temperature:	Max 120°C
Pressure:	Max 2100kPa (300 PSI)
Application:	Water, air and neutral liquids



Face to Face Dim	Part No.	Size NB (mm)	Price $
85	VGBF-60-LEVER	50	243.74
96	VGBF-76-LEVER	65	279.29
96	VGBF-88-LEVER	80	385.93
115	VGBF-114-LEVER	100	475.56
145	VGBF-165-LEVER	150	890.30
148	VGBF-219-LEVER	200	1127.32

Price Group: FE

VF04

M

Wafer Check Valves Single Flap



Design:	Single flap uni-check
End Connection:	Wafer Flanged Table E
Body Materials:	Cast iron body, FBE coated, stainless steel 316 disc and spring
Seats & Trim:	EPDM seal
Temperature:	-20° to 120°C
Application:	Water, air and neutral fluids

Face to Face Dim	Size (mm)	Part No.	WP (Kpa)	Price $
44.5	50	SC50MM	1600	186.23
47.6	65	SC65MM	1600	200.47
50.8	80	SC80MM	1600	246.47
57.2	100	SC100MM	1600	306.72
63.5	125	SC125MM	1600	531.28
69.9	150	SC150MM	1600	629.86
73	200	SC200MM	1600	963.98
79.4	250	SC250MM	1600	1451.43
85.7	300	SC300MM	1600	2026.53

Price Group: FE
VC08

Duo Wafer Check Valves





350NB-600NB
Blue FBE coated body

Design:	Double flap duo-check
End Connection:	Universal ends - Fits between Table D/E & ANSI 150 Flanges
Body Materials:	Cast iron body, SS disc and spring *
Seats & Trim:	NBR seal
Temperature:	-10° to 80°C
Application:	Water, air and neutral fluids

Face to Face Dim	Size (mm)	Part No.	WP (kPa)	Price $
43	50	VWC-50E	1600	105.33
46	65	VWC-65E	1600	125.08
64	80	VWC-80E	1600	184.32
64	100	VWC-100E	1600	189.59
76	150	VWC-150E	1600	413.87
89	200	VWC-200E	1600	714.45
114	250	VWC-250E	1600	960.60
114	300	VWC-300E	1600	1369.28
184	350	VWC-350E*	1600	2108.69
191	400	VWC-400E*	1600	3121.95
203	450	VWC-450E*	1600	4655.54
219	500	VWC-500E*	1600	5477.11
219	600	VWC-600E*	1600	8173.54

* Spring included on SS316 disc.

Price Group: SD
*** FE**
VC08

Duo Wafer Stainless Steel Check Valves



Design:	To API 603 / ASME B1634
End Connection:	Fits between ANSI 150 and table E flanges
Body Materials:	Stainless steel
Seats & Trim:	FKM seat
Pressure:	232 PSI for water, oil & gas & corrosive fluids

Size NB (mm)	Part No.	Price $
50	DUO316-050	528.50
65	DUO316-065	889.57
80	DUO316-080	988.99
100	DUO316-100	1318.86
150	DUO316-150	2351.90
200	DUO316-200	4011.77
250	DUO316-250	5865.91
300	DUO316-300	9418.95

Price Group: SD
VS01

Bronze Swing Check Valves

Design:	Can be used in either vertical or horizontal pipelines.
End Connection:	Screwed female BSP
Body Material:	Bronze
Temperature:	Max 99°C
Pressure:	Max 2000 kPa Water, Oil & Gas
Application:	General hydraulic, mechanical services and Fire Protection

Certified Product
Australian Standard
AS1628

WaterMark

Part No.	Size (mm)	Price $
VC-4B-015	15	93.61
VC-4B-020	20	86.50
VC-4B-025	25	125.72
VC-4B-032	32	233.81
VC-4B-040	40	335.43
VC-4B-050	50	398.57
VC-4B-080	80	925.21
VC-4B-100	100	1668.41



Price Group: SD

VB11

Brass Swing Check Valves

Design:	General Purpose
End Connection:	Screwed female BSP. DIN259 and BS2779
Body Material:	Brass
Application:	For control of water, oil and gas in hose or pipe lines, irrigation, light industrial and rural applications. For other services, please contact Dixon™.

Size (mm)	Part No.	Working Pressure		Price $
		PSI	MPa	
15	BSCV012	170	1.2	19.53
20	BSCV020	170	1.2	27.13
25	BSCV025	170	1.2	40.53
32	BSCV032	140	1	58.95
40	BSCV040	140	1	76.93
50	BSCV050	140	1	109.03
65	BSCV065	110	0.8	240.07
80	BSCV075	110	0.8	326.63
100	BSCV100	110	0.8	540.34



Price Group: SD

VB02

Stainless Steel Swing Check Valves

End Connection:	Screwed female BSP
Body Material:	316 Stainless steel
Pressure:	200 PSI
Temperature:	-20 to 232°C for water, oil & gas & corrosive fluids

Size NB (mm)	Part No.	Price $
15	SSC-015	64.68
20	SSC-020	80.85
25	SSC-025	118.58
32	SSC-032	167.08
40	SSC-040	199.42
50	SSC-050	280.27



Price Group: SD

VS01

M

Class 800 Forged Steel Check - BSP & NPT



Design:	Class 800 forged steel BS5351, API 598, ASME B1.20.1
End Connection:	Screwed Female: BSP, NPT & Socket weld
Body Materials:	Forged steel - ASTM A 105N
Seat & Trim:	Seat- A276 420, Disc- ASTM A276 420
Pressure/Temp:	1975 PSI CWP- -20°C to 380°C
Application:	Petroleum, oil and gas, low pressure saturated steam, mining and industrial applications
Options:	Socket weld in forged steel, SS 316 available in screwed NPT
Other:	Piston check availabel in NPT. Class 1500 valves available in NPT.

#800 A105N Swing Check Valve

Size		Working Pressure		BSP		NPT	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
½	15	1975	13.6	FSSCVB-015	129.51	FSSCVN-015	129.51
¾	20	1975	13.6	FSSCVB-020	134.49	FSSCVN-020	134.49
1	25	1975	13.6	FSSCVB-025	199.24	FSSCVN-025	199.24
1¼	32	1975	13.6	FSSCVB-032	268.98	FSSCVN-032	268.98
1½	40	1975	13.6	FSSCVB-040	333.73	FSSCVN-040	333.73
2	50	1975	13.6	FSSCVB-050	483.16	FSSCVN-050	483.16

Price Group: SD

VS01

Cast Iron Flanged Ball Check Valves



Design:	Flanged ball check valve
End Connection:	Flanged Table D, rated to PN16
Body Materials:	Cast iron, FBE coated Aluminium ball with EPDM rubber lined
Temperataure:	-10° to 110°C
Application:	Water & sewerage, and some slurry applications
Options:	Ductile iron body available on request

Face to Face Dim	Size (mm)	Part No.	Price $
200	50	BCK-050D	743.20
240	65	BCK-065D	1104.19
260	80	BCK-080D	1125.42
300	100	BCK-100D	1486.41
300	100	BCK-100E	1486.41
400	150	BCK-150D	2484.42
500	200	BCK-200D	4968.84
600	250	BCK-250D	7325.85
700	300	BCK-300D	9873.98

Price Group: SD

VC08

M

Cast Iron Swing Flanged Check Valves Fig CVF-1161

Design:	Offers positive seating for resistance against back pressure or back flow
End Connection:	Flanged Table D or E
Body Materials:	Cast iron flanged, cast iron disc
Seats & Trim:	Metal seated
Temperature:	1,600 kPa @ -10°C to 120°C
Application:	For water and neutral fluids



Face to Face Dim	Size (mm)	Part No.	Price $
240	80	CVF-1161-080	882.96
292	100	CVF-1161-100E	1408.24
356	150	CVF-1161-150E	2296.47
495	200	CVF-1161-200E	3432.88
622	250	CVF-1161-250E	4739.28
699	300	CVF-1161-300E	7701.33

Price Group: SD

VC06

Stainless Steel Swing Flanged Check Valves

Design:	To API 603 / ASME B1634
End Connection:	Flanged to ANSI 150 LB is standard, table E available on request
Body Material:	316 Stainless Steel (CF8M)
Pressure:	285 PSI for water, oil & gas & corrosive fluids
Options:	½" - 6" drilled table



Size NB (mm)	Part No.	Price $
65	VSC-150-065	1994.20
80	VSC-150-080	2425.38
100	VSC-150-100	4333.34
150	VSC-150-150	6187.41
200	VSC-150-200	9162.54
250	VSC-150-250	22421.28

Available on request
- 316 stainless steel drilled to table E ½" - 6"
- cast steel in 150# and 300# ANSI

Price Group: SD

VS01

M

Cast Steel (WCB) Swing Check Valves Flanges ANSI 150



Design:	ASME B16 34 & BS 1868
End Connection:	Flanged ANSI 150, face to face ASME B16.10, End Connection: ASME B16.5
Body Materials:	ASTM A216 WCB (cast steel)
Disc:	ASTM A216 WCB+STL, seat ring -ASTM A216+13Cr
Pressure:	285 PSI CWP & -29°C to 425°C
Applications:	For use with air, water, oil, gas & non-corrosive fluids, compatible with body & trim
Options:	Flanged ANSI 300lb available on request

Size NB (mm)	Part No.	Price $
50	VSC-CS-150-050	614.58
65	VSC-CS-150-065	795.93
80	VSC-CS-150-080	997.43
100	VSC-CS-150-100	1279.53
150	VSC-CS-150-150	2080.49
200	VSC-CS-150-200	3798.28
250	VSC-CS-150-250	6306.95

Price Group: SD

VF08

Grooved Swing Check Valves



Design:	Compact style check valve
End Connection:	Grooved
Body Materials:	Ductile Iron to ASTM A-536 Grade 65-45-12 304SS disc
Seat & Ring:	304 Stainless Steel to ASTM A-123, ASTM A-213, ASTM A-312 or ASTM A-269 Resilient seated EPDM O-ring
Pressure:	Max working pressure 2,100 kPa @ 70°C
Approvals:	UL/FM approved
Application:	For water, dilute acids, alkalis, oil-free air & many chemical services in vertical and horizontal positions. Not for use in petroleum services.

Face to Face Dim	Size (mm)	Part No.	Pipe OD (mm)	Price $
171.5	50	VGSCV-60	60.3	372.81
230.0	65	VGSCV-76	76.1	450.86
231.0	80	VGSCV-88	88.9	459.70
245.0	100	VGSCV-114	114.3	615.47
292.0	150	VGSCV-165	165.1	884.98
356.0	200	VGSCV-219	219.1	1617.04

Price Group: FE

VC06

M

Alarm Check Valves - Grooved Ends



Design:	Model J ductile iron body. Can be mounted in both vertical & horizontal positions.
End Connection:	Grooved
Body Material:	Ductile iron
Pressure:	250 PSI
Options:	Also available in Flange/Flanged, Flange/Groove Ends
Application:	For water, dilute acids, alkalis, oil-free air & many chemical services in vertical and horizontal positions. Not for use in petroleum services.

Size (mm)	Part No.	Pipe OD (mm)	Price $
80	VAVG-88	88.9	1557.18
100	VAVG-114	114.3	1758.99
150	VAVG-165	165.1	2189.79
200	VAVG-219	219.1	3096.68

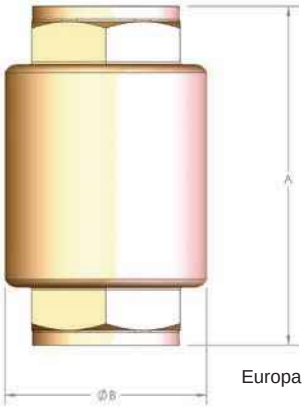
Price Group: SD

VC07

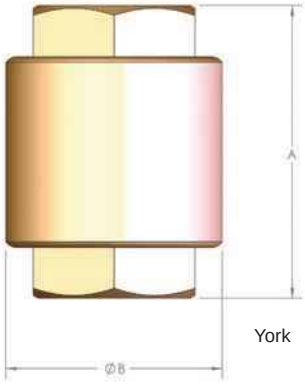
Brass Inline Check Valves

Design:	Spring Check valve. Full bore
End Connection:	Screwed female BSP conforming to ISO228 (equivalent to DIN259 & BS2779)
Body Materials:	Brass CW 617N, stainless steel spring AISI 302 Nitrile butadiene rubber seal
Temperature:	Air: -20°C to 110°C; Water: -0°C to 90°C; Gas: -20°C to 60°C
Application:	Suitable for industrial, pneumatic and hydraulic installations. Ideal for use with hot or cold water, oils or compressed air. Can be installed in vertical, horizontal or oblique positions.

Size		Part No.	Working Pressure		Dimensions		Price $
mm	inch		PSI	MPa	A (mm)	B (mm)	
Europa Brass Stem							
15	½	BECV012	360	2.5	58.5	34.5	19.09
20	¾	BECV020	360	2.5	65	41.5	28.08
25	1	BECV025	360	2.5	74.5	48	33.68
32	1¼	BECV032	260	1.8	83	60.5	58.95
40	1½	BECV040	260	1.8	93	71	69.62
50	2	BECV050	260	1.8	101	87	106.31
65	2½	BECV065	170	1.2	122	120	265.80
80	3	BECV075	170	1.2	141.5	140.5	370.55
100	4	BECV100	170	1.2	158.8	172.5	509.90
York® Plastic Stem							
10	⅜	BYCV010	170	1.2	46.5	34.5	15.66
15	½	BYCV012	170	1.2	47	34.5	14.04
20	¾	BYCV020	170	1.2	53	42	18.44
25	1	BYCV025	170	1.2	60.5	47.5	23.87
32	1¼	BYCV032	140	1	66.5	59.5	35.80
40	1½	BYCV040	140	1	74	71	53.16
50	2	BYCV050	140	1	80	86.5	82.08
65	2½	BYCV065	110	0.8	98	102	150.18
80	3	BYCV075	110	0.8	103	125	200.71
100	4	BYCV100	110	0.8	118.5	155	323.29



Europa



York

Price Group: SD

VB02

3 Piece Inline Check Valves Stainless Steel

Design:	Spring loaded in-line check
End Connection:	Screwed Female BSP
Body Materials:	SS 316
Seats & Trim:	PTFE seats, 316 disc and spring
Application:	Water, oil, gas and chemicals
Pressure	1000 PSI C.W.P.

Size (mm)	Part No.	Price $
15	SS3P015-SCV	91.62
20	SS3P020-SCV	107.80
25	SS3P025-SCV	150.91
32	SS3P032-SCV	242.54
40	SS3P040-SCV	291.04
50	SS3P050-SCV	458.12



Available on request
- NPT threaded valves

Price Group: SD

VS01

M

Check Valve York® Filter SS304



Design:	10mm to 50mm = 1200 Micron 65mm to 100mm = 2000 Micron
End Connection:	Nylon thread, ISO228, DIN259 and BS2779
Body Material:	Strainer in SS304
Application:	To suit York Check Valve

Size (mm)	Part No.	Price $
10	BYCF010	4.10
15	BYCF012	4.77
20	BYCF020	6.02
25	BYCF025	6.29
32	BYCF032	8.64
40	BYCF040	10.27
50	BYCF050	13.76
65	BYCF065	25.71
80	BYCF075	26.77
100	BYCF100	44.02

Price Group: SD

VB02

Foot Valves



End Connection:	Screwed Female BSP, ISO228, DIN259 and BS2779
Body Material:	Brass
Temperature:	0°C to 90°C
Pressure:	90 - 140 PSI
Application:	General industrial, irrigation and rural services

Size (mm)	Part No.	Working Pressure		Price $
		PSI	Mpa	
20	BFV020	140	1	22.36
25	BFV025	140	1	27.02
32	BFV032	110	0.8	39.69
40	BFV040	110	0.8	53.01
50	BFV050	110	0.8	76.04
65	BFV065	90	0.6	136.72
80	BFV075	90	0.6	186.10
100	BFV100	90	0.6	315.28

Price Group: SD

VB02

M

Flanged & Grooved Pressure Reducing Valves

Design:	400 Series. Flange drilling to specification. Configurations available include solenoid, pressure reducing, pressure sustaining, quick relief, float valve and flow control.
End Connection:	Table E flanged and grooved
Body Material:	Cast iron body
Pressure:	PN 16 (1600 kPa) CWP.
Approvals:	UL/FM approval available on request

Face to Face Dim	Size		Part No.	Price $
	inch	mm		
PRV Flanged				
205	2	50	FFS-PRV420-60E	2668.26
205	2½	65	FFS-PRV420-76E	2877.63
250	3	80	FFS-PRV420-88E	3315.04
320	4	100	FFS-PRV420-114E	4115.96
415	6	150	FFS-PRV420-165E	7888.24
500	8	200	FFS-PRV420-200E	11893.31
605	10	250	FFS-PRV420-250E	16713.83
724	12	300	FFS-PRV420-300E	37293.80
PRV Grooved				
205	2	50	FFS-PRV420-60	2668.26
250	3	80	FFS-PRV420-88	3315.04
320	4	100	FFS-PRV420-114	4115.96
415	6	150*	FFS-PRV420-165	7888.24



2" to 4"



6" to 12"

Price Group: SD

VO03

Pressure Reducing Valves Fig NR3 In Line Adjustable

Design:	For potable water lines to reduce high inlet pressure to lower outlet pressure. Factory set to 50 PSI
End Connection:	Screwed male BSP
Body Material:	Bronze body
Max Working Pressure:	400 PSI CWP
Range:	½" to 2" to 75 PSI

Size BSP		Part No.	Price $
inch	mm		
½	15	BR4-015	410.59
¾	20	BR4-020	260.04
1	25	BR4-025	465.33
1¼	32	BR4-032	1012.78
1½	40	BR4-040	1395.99
2	50	BR4-050	1779.21



Price Group: SD

VB10

M

Multi Jet Water Meter



Design:	Multi-jet meter with pulse output. All meters supplied with 10 Litre pulse.
End Connection:	Female unions
Body Materials:	Brass body, with nuts & tails
Pressure:	Standard rating is 1,000 kPa
Application:	Water measurement

Size		Part No.	Capsule Pulse	Price $
inch	mm			
¾	20	MT-KD-20-P2	1 Litre or 10 Litre	325.98
1	25	MT-KD-25-P2	1 Litre or 10 Litre	449.88
1½	40	MT-KD-40-P2	10 Litre	831.28
2	50	MT-KD-50-P2	10 Litre	1189.84

Price Group: SD
VO03

Water Meter with Pulse Register



Design:	Conforms to OIML, R49, Class 2, Helical Vane operation with standard pulse device
End Connection:	Flanged Table D standard
Body Material:	Cast Iron - FBE coated
Pressure:	Rated to 16 Bar (1600 kPa)
Options:	Up to 300NB available on request
Application:	Water measurement - potable and industrial applications

Size		Part No.	Price $
inch	mm		
2	50	WPH-50-1	910.96
2½	65	WPH-65-1	1592.58
3	80	WPH-80-1	1021.91
4	100	WPH-100-1	1094.90
6	150	WPH-150-1	2073.00
Reed Switch RD-01 C/W Electric Pulse Transmitter			
2 - 6	50 - 150	WPH-RP	400.91

Note: If pulse output is required,
additional Reed Switch is available on request.
Pulse output available: 50 - 150WB - 1P/10L or 1P/1000L.

Price Group: SD
VO03

M

Reduced Pressure Zone Devices c/w Isolation - Valve & Strainer

Application:	Backflow prevention
Style:	Reduced pressure zone (complete unit)
End Connection:	Screwed Female BSP
Standards:	Complies with AS/NZS 2485.1 Standards Mark Licence 1379

Size (mm)	RPZ (complete unit)	Part No.	Price $
15	15-975XLC	RPZ-015-W	924.50
20	20-375XLC	RPZ-020-W	1053.38
25	25-375XLC	RPZ-025-W	1172.53
32	32-375XLC	RPZ-032-W	2085.21
40	40-375XLC	RPZ-040-W	2137.83
50	50-375XLC	RPZ-050-W	2389.08

Price Group: SD

VO03



Model 375XLC

Ratio Pressure Reducing Valves Screwed BSP & Flanges Table E

Application:	• Reducing static & dynamic fluid pressure in fresh and flush water applications in mines and high rise buildings.
Materials:	• Body: Gun Metal -BS1400-LG2. Seat & Trim: Gun metal seat retainer, Seal Ring: NBR /EPDM
Features:	• One piece direct acting ratio pressure reducing valves. • Screwed female BSP & flanged BS4504 Table E. • High flow rates/accurate control of pressure, reduces surge & water hammer • Reliable with only one moving part. Minimum maintenance required.
Pressure Rating:	• Inlet Pressures for Screwed: Min 300 to Max 2000KPA, Flanged Min 200 to Max 2000KPA

Inch	Ratio	Part No.	Price $	Inch	Ratio	Part No.	Price
1	1.5:1 (3:2)	YH13	516.79			---	---
1	2:1	YH23	519.54	3"	1.5:1 (3:2)	YH801	7082.47
1	3:1	YH33	516.79	3"	2:1	YH802	7082.47
1 1/2	1.5:1 (3:2)	YH15	2215.54	3"	3:1	YH803	7082.47
1 1/2	2:1	YH25	2215.54			---	---
1 1/2	3:1	YH35	2215.54			---	---
2	1.5:1 (3:2)	YH16	2796.67	4"	1.5:1 (3:2)	YH1001	11804.12
2	2:1	YH26	2805.75	4"	2:1	YH1002	11454.56
2	3:1	YH36	2796.67	4"	3:1	YH1003	11804.12
2 1/2	2:1	YH27	4804.67			---	---

Price Group: SD

VO05



Screwed BSP



Flanged Table E

Double Check Valve Device c/w Isolation Valve

End Connection:	Screwed Female BSP
Standards:	Complies with AS/NZS 2485.1 Standards Mark Licence 1379

Complete Unit (With Strainer)

Size (mm)	DCV (complete unit)	Part No.	Price $
20	20-350XLC	DCV-020-W	651.46
25	25-350XLC	DCV-025-W	729.35
32	32-350XLC	DCV-032-W	1571.18
40	40-350XLC	DCV-040-W	1658.77
50	50-350XLC	DCV-050-W	1848.88

Price Group: SD

VO03



Model 350XLC

Without Strainer

Size (mm)	DCV (less strainer)	Part No.	Price $
20	20-350XLS	DCV-020-WY	618.87
25	25-350XLS	DCV-025-WY	696.75
32	32-350XLS	DCV-032-WY	1468.16
40	40-350XLS	DCV-040-WY	1542.80
50	50-350XLS	DCV-050-WY	1717.01

Price Group: SD

VO03



Model 350XLS

M

Reduced Pressure Zone Devices Only

Also available in roll grooved!



Style:	Reduced pressure zone (device only)
End Connection:	Flanged Table E or Roll Grooved
Standards:	Complies with AS/NZS 2485.1 Standards Mark Licence 1379

Face to Face Dim	Size (mm)	Part No.	Price $
403	65	RPZ-065-WDO	5200.21
403	80	RPZ-080-WDO	5202.50
535	100	RPZ-100-WDO	7156.64
675	150	RPZ-150-WDO	9604.64
959	200	RPZ-200-WDO	22992.07

Price Group: SD
VO03

Double Check Valves (device only)

Also available in roll grooved!



WaterMark

Certified Product Australian Standard

Application:	Backflow prevention
Style:	Double Check Valve (device only)
End Connection:	Flanged Table E or Roll Grooved
Standards:	Complies with AS/NZS 2485.1 Standards Mark Licence 1379

Face to Face Dim	Size (mm)	Part No.	Price $
403	65	DCV-065WDO	5581.96
403	80	DCV-080WDO	4608.42
535	100	DCV-100WDO	5163.65
675	150	DCV-150WDO	10041.34

Price Group: SD
VO03

Face to Face Dim	Size (mm)	Part No.	Price $
Roll Grooved			
505	100	VBF-850-DC-100E	4418.39
657	150	VBF-856-DC-150	7554.78

Price Group: FE
VO02

Double Detector Check Valves with 20mm Bypass -Flanged (device only)



Application:	Backflow prevention
Style:	Double Detector Check Valve TE 20mm bypass
End Connection:	Flanged Table E

Face to Face Dim	Size (mm)	Part No.	DDCV TE	Price $
403	65	DDCV-65X20	65-950DA20	6629.49
403	80	DDCV-80X20	80-950DA20	6629.49
535	100	DDCV-100X20	100-950DA20	5603.42
675	150	DDCV-150X20	150-950DA20	9343.09

Price Group: SD
VO03

Double Detector Check Valves with 25mm Bypass - Flanged (device only)



Application:	Backflow prevention
Style:	Double Detector Check Valve TE 25mm bypass
End Connection:	Flanged Table E

Face to Face Dim	Size (mm)	Part No.	DDCV TE	Price $
403	65 x 25	DDCV-65X25	65-950DA25	7120.60
403	80 x 25	DDCV-80X25	80-950DA25	7120.60
535	100 x 25	DDCV-100X25	100-1950DA25	8067.20
675	150 x 25	DDCV-150X25	150-950DA25	13700.84

Price Group: SD
VO03

M

Single Check Valves Approved & Tested - Flanged & Grooved

Application:	Fire sprinkler systems & potable water to prevent back siphonage.
Design:	Single testable detector check valve approved.
End Connection:	Flanged - ANSI B16.1 Class 125 & drilled to AS2129 table D & E. Grooved - to AWWA C606
Materials:	Body - Ductile Iron Stem - Stainless Steel EPDM elastomers & FBE coated
Approvals:	AS 4020, AS Standards Mark certified, Watermarked & UL/FM approved
Working Pressure:	175 PSI
Temperature:	60°C

Face to Face Dim	Size (mm)	Part No.	TE Fire Line SCV	Price $
420	100	SCV-100	Flanged TE	4092.40
420	100	SCV-100G	Grooved	4092.40
570	150	SCV-150	Flanged TE	6274.82
570	150	SCV-150G	Grooved	6464.38

Price Group: SD

VO03



Flanged



Grooved

Single Detector Check Valves with 20mm Spacer Bypass

Application:	Backflow prevention
Style:	Single Detector Check Valve spacer bypass
Options:	Also available in Flanged ends Table E

Face to Face Dim	Size (mm)	Part No.	Price $
420	100 x 25	SCV-100X25CW	4088.11
570	150 x 25	SCV-150X25CW	6009.60

Price Group: SD

VO03



Yarra Valley Single Fireline Detector Check Valves with Metered Bypass

Application:	Backflow prevention
Style:	Single Fireline Detector Check Valve metered bypass
End Connection:	Flanged Table E

Face to Face Dim	Size (mm)	Part No.	Price $
420	100 x 25	SCV-100X25YV	3784.03
570	150 x 25	SCV-150X25YV	7638.85

Price Group: SD

VO03



M

3 Way Globe Valves Fig BH-8



Design:	3 Way
End Connection:	Female BSP
Body Material:	Bronze body
Seats & Trim:	Bronze
Pressure:	200 PSI
Application:	Water, oil and neutral liquids

Size (mm)	Part No.	Price $
8	VGB3-8	38.69

Price Group: SD
VB09

Heavy Duty Steam Globe Valves



Design:	Heavy duty steam globe valve
End Connection:	Screwed female BSP
Body Material:	Bronze
Seats & Trim:	SS 316 seat, SS disc, Cast Iron
Pressure:	2500 KPA
Temperature:	-10°C to 180°C
Application:	Steam, water, oil

Size (mm)	Part No.	Price $
15	VGL-501-015	278.75
20	VGL-501-020	336.99
25	VGL-501-025	489.22
32	VGL-501-032	611.28
40	VGL-501-040	778.13
50	VGL-501-050	1075.94

Price Group: SD
VB09

Stainless Steel Screwed Globe Valves



Design:	Adjustable packing& CI hand wheel
End Connection:	Screwed female BSP
Body Material:	316 Stainless Steel
Seats & Trim:	Integral seat
Pressure:	200 PSI
Temperature:	-20 to 232°C for water, oil & gas & corrosive fluids

Size (mm)	Part No.	Price $
15	SGLV-015	83.72
20	SGLV-020	99.42
25	SGLV-025	125.58
32	SGLV-032	251.16
40	SGLV-040	313.97
50	SGLV-050	376.76

Price Group: SD
VS01

Stainless Steel Flanged OS&Y Globe Valves



Design:	ASME B.16.34 & BS1873
Body Material:	ASTM A351 CF8M (316 stainless steel)
Pressure:	285 PSI for water, oil & gas & corrosive fluids
Options:	ANSI 300 LB also available

Size (mm)	Part No.	Price $
65	VGL-150-065	2075.05
80	VGL-150-080	2678.70
100	VGL-150-100	4128.53
150	VGL-150-150	8623.57
200	VGL-150-200	12504.17

Available on request
- drilled table E ½" - 6"
- cast steel in ANSI 150# and ANSI 300#

Price Group: SD
VS01

Class 800 Forged Steel Globe Valves - BSP & NPT

Design:	Class 800 forged steel BS5351, API 598, ASME B1.20.1
End Connection:	Screwed Female: BSP, NPT & Socket Weld
Body Material:	Forged steel - ASTM A 105N
Seat & Trim:	Seat- ASTM A105N + 13Cr, Stem- ASTM A182 F6a
Pressure/Temp:	1975 PSI CWP: -20°C to 380°C
Application:	Petroleum, oil and gas, mining and low pressure steam. General services up to 425°C
Options:	Socket weld in forged steel, SS 316 available in screwed NPT
Features:	OS&Y, Bolted Bonnet, Plug Disc
Other:	Class 1500 available in NPT



#800 A105N Globe Valve

Size		Working Pressure		BSP		NPT	
inch	mm	PSI	MPa	Part No.	Price $	Part No.	Price $
½	15	1975	13.6	FSGLB-015	139.47	FSGLN-015	139.47
¾	20	1975	13.6	FSGLB-020	154.41	FSGLN-020	154.10
1	25	1975	13.6	FSGLB-025	214.19	FSGLN-025	214.19
1¼	32	1975	13.6	FSGLB-032	299.49	FSGLN-032	299.49
1½	40	1975	13.6	FSGLB-040	393.51	FSGLN-040	393.51
2	50	1975	13.6	FSGLB-050	587.77	FSGLN-050	587.77

Price Group: SD

VS01

Stainless Steel Needle Valves

Design:	High pressure bar stock needle valve
End Connection:	Threaded female BSP or NPT
Material:	Stainless steel body & seat
Pressure:	6000 PSI for water, oil, gas, steam & corrosive fluids



Size (mm)	Part No.	Price $
8	VNE-008	194.03
10	VNE-010	194.03
15	VNE-015	258.69
20	VNE-020	409.62
25	VNE-025	565.56

Price Group: SD

VS01

M

Ball Float Tank Fill Valves

Design:	Fig SRI. Complete with copper or plastic float.
End Connection:	Screwed BSP
Body Material:	Bronze body
Application:	Auto fill valve for water tanks. Commonly used in fire services.



Size (mm)	Part No.	Float Type	Price $
50	FFS-BFTFV-50	Copper	1769.53
80	FFS-BFTFV-80	Copper	3605.69
100	FFS-BFTFV-100	Copper	3863.24

Price Group: SD

VB10

Relief Valves with Side Outlet - Fig PREL



Design:	This relief valve has a closed side outlet with right angle discharge. The outlet is female threaded and of the same size as the inlet.
End Connection:	BSP Male
Body Material:	Bronze
Seats & Trim:	Bronze, SS304
Temperature:	-45°C to 185°C
Pressure:	Factory set to 1000Kpa and can be field adjusted from 300 to 1000Kpa
Application:	Suitable for discharge of steam, water, oil, air and liquids non-injurious to copper alloys.

Size (mm)	Part No.	Standard Setting	Price $
15	VR-268-15	145PSI (1000 kPa)	472.52
20	VR-268-20	145PSI (1000 kPa)	513.74
25	VR-268-25	145PSI (1000 kPa)	579.65
32	VR-268-32	145PSI (1000 kPa)	730.75
40	VR-268-40	145PSI (1000 kPa)	923.05
50	VR-268-50	145PSI (1000 kPa)	1329.64

For settings other than standard, contact Dixon™.

Price Group: SD

VB10

Stainless Steel Relief Valves



Design:	Right angle relief valve, field adjustable.
End Connection:	Threaded female BSP
Material:	316 Stainless steel body & seat
Seat:	PTFE soft seat
Pressure:	Factory set to 1000Kpa. Field adjustable from 300 to 1000kPa
Temperature:	-20 to 290°C
Application:	Water, oil, gas, steam & corrosive fluids

Size (mm)	Part No.	Price $
15	SRV-015	1711.28
20	SRV-020	1711.28
25	SRV-025	1711.28
32	SRV-032	4175.73
40	SRV-040	3757.36
50	SRV-050	4482.79

Price Group: SD

VS01

M

Test and Drain Valve - Fig BH-6

Design:	Tamper resistant sight glass Quarter turn handle from test to drain
End Connection:	2" BSP Male x Female
Body Material:	Brass body
Pressure:	Working pressure 300 PSI, tested to 400 PSI
Application:	To test water flow through sprinkler systems and system drain points

Size (mm)	Part No.	Working Pressure		Price $
		PSI	MPa	
50	V50TD	300	2.0	391.48



Price Group: SD
VB10

Drum Gate Valves

Design:	Manually operated gate valve. Black Japanned finish.
End Connection:	Male NPT Thread
Body Material:	Malleable Iron
Pressure:	Suitable only for fluid head pressure in drum
Application:	For drawing non-flammable liquids from drums and tanks

NPT Size (mm)	Part No.	Price $
50	D75	244.82



Price Group: SD
AU02

Brass Solenoid Valves - Fig B35

End Connection:	BSP Female
Body Material:	Brass, differential NC & NO
Application:	Air & fluid

Size (mm)	Part No.	Type	Price $
Normally Closed			
15	VSOL-15	24 Volt DC	252.41
15	VSOL-15-M0	24 Volt DC c/w manual override	442.13
20	VSOL-20	24 Volt DC	424.44
15	VSOL-8615-NC	24 Volt AC	336.02
25	VSOL-8616-NC	24 Volt AC	424.44
40	VSOL-8618-NC	24 Volt AC	848.88
Normally Open			
20	VSOL-8715-NO	24 Volt AC	512.86
25	VSOL-8716-NO	24 Volt AC	512.86
40	VSOL-8718-NO	24 Volt AC	990.36



Price Group: SD
VB10

M

Cast Iron Y Strainers Fig YS



Design:	Provides an economical, compact and hydraulically efficient means of protecting valuable piping system components.
End Connection:	Flanged Table E
Body Materials:	Cast iron. SS 316 mesh
Pressure:	1,600 kpa
Temperature:	-10°C to 100°C
Application:	Water, oil and gas, and fire protection

Face to Face Dim	Size (mm)	Part No.	Price $
230	50	VYS-050-E	282.01
290	65	VYS-065-E	318.52
310	80	VYS-080-E	403.45
350	100	VYS-100-E	557.40
400	125	VYS-125-E	743.20
480	150	VYS-150-E	1040.48
600	200	VYS-200-E	1741.21
730	250	VYS-250-E	3163.91
762	300	VYS-300-E	4565.39

Price Group: SD
VC05

Brass Y Strainers



Design:	Provides an economical, compact and hydraulically efficient means of protecting valuable piping system components
End Connection:	Female x Female BSP ends ISO228 (equivalent to DIN259 and BS2779)
Body Materials:	Cast Brass body, SS 304 Mesh
Temperature:	(Air) -15°C to 110°C (Water) 0°C to 90°C
Pressure:	Max 290 PSI
Application:	Domestic water services, heating and air-conditioning plants, compressed air systems

Size		Part No.	Working Pressure		Degree of filtration µ	Price $
mm	inch		PSI	MPa		
8	¼	BYLF006	290	2	500	15.00
10	⅜	BYLF010	290	2	500	16.08
15	½	BYLF012	290	2	500	19.23
20	¾	BYLF020	290	2	500	26.90
25	1	BYLF025	290	2	500	35.31
32	1¼	BYLF032	290	2	500	57.63
40	1½	BYLF040	290	2	500	68.62
50	2	BYLF050	290	2	500	126.09

Price Group: SD
VB10

Stainless Steel Y Strainers



End Connection:	Screwed female BSP
Body Materials:	316 Stainless steel body & element
Pressure:	800 PSI
Temperature:	-20°C to 232°C for water, oil, gas & corrosive fluids

Size (mm)	Part No.	Price $
15	SYS-015	43.11
20	SYS-020	53.90
25	SYS-025	75.45
32	SYS-032	107.80
40	SYS-040	150.91
50	SYS-050	220.98

Available on request
- NPT ends ¼" to 2"

Price Group: SD
VS01

M

Potter Pressure Switch

End Connection:	NPT Male
Body Materials:	Cover - die cast with red powder coat. Base - plated steel.
Pressure:	Refer to table below
Approvals:	UL, CSFM, FM, LPC Approved, CE marked
Application:	For monitoring high and/or low pressure variations.

Part No.	Type	Description	Price $
FFS-PS120-1A	PA120–1A	70-1225 kPa - 1 Set of Contacts Field Adjustable. Pressure drop model of 770kPa	529.15

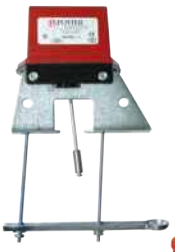
Price Group: SD
VB07


WFSR-F

Potter Anti-Tamper Switches

Part No.	Type	Description	Price $
FFS-OSYSU-A1	OSYSU-1	To suit Gate Valves OS&Y DN50 - DN300, 1 set of contacts	593.93
FFS-PTS-C	PTS - C	Pull out plug style suitable for any type of hand wheel operated valve	971.89

Price Group: SD
VB07


OSYSU


PTS-C

Vane Type Waterflow Alarm Switches for Small Pipe (DN25-50)

Part No.	Type	Price $
FFS-VSR-FS-25	VSR-SFDN25 to DN50	809.91

Price Group: SD
VB07


VSR

Vane Type Waterflow Alarm Switches

Part No.	Size (to suit pipe NB)	Price $
FFS-WFI50	50	701.92
FFS-WFI65	65	701.92
FFS-WFI80	80	701.92
FFS-WFI100	100	701.92
FFS-WFI150	150	809.91
FFS-WFI200	200	998.89

Price Group: SD
VB07


VSR-F

M

Valve Lockout Devices



Design:	Prevents unauthorised access to fire service and industrial valves. Device rotates freely around hand wheel to prevent valve wheel turning. UV resistant high grade PVC body is resistant to cracking, abrasion and extreme weather and temperature conditions. Has multiple padlock points.

Part No.	Description	Price $
FFS-LVLOC65	To suit all sizes Landing / Hydrant Valves.	48.66

* Refer to page 427 for Padlocks.

Price Group: FE

FP02

Valve Wheel Spanner - Open / Close Valves



Design:	User friendly, safe non-slip design. OHS tool. Safe & efficient with positive wheel engagement.
Body Materials:	Heavy duty toughened steel, fully seal welded
Application:	Used to open / shut Gate valves, Globe valves, and valves with hand wheels

Part No.	Size	Valve Range (inch)	Price $
4G4192	Small	½ to 7	186.81
4G4193	Medium	¾ to 10	291.20
4G4194	Large	1 to 20	467.02

Price Group: SD

VS01

Amtron Anti-Tamper Supervisory Switch



AS2419.1

Approvals:	ActivFire & AS2419.1 approved, with LED

Part No.	Description	Price $
502	To suit Gate and Butterfly Valves	2315.49

Price Group: SD

VB07

M

Chain Wheel Assembly



Description
To suit Butterfly, Gate, Globe & Knife Gate Valves

VS01

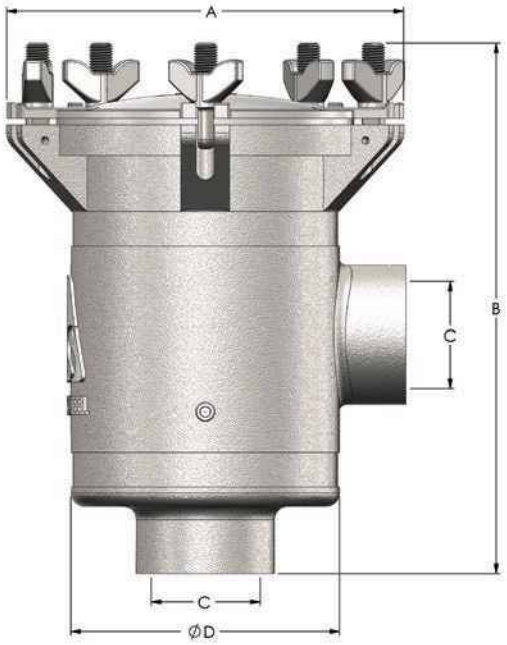
Strainers ---------- 528-529
BISO ---------- 528
SISO ---------- 529
Fittings ---------- 530-532
Inlet Scoop ---------- 530
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Thru Hull Skin Fittings ---------- 531
Baskets ---------- 531-532
Accessories ---------- 532-533
Mounting Bracket ---------- 532
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BISO Strainers - Bottom Inlet, Side Outlet

Application:	Suitable for applications where a superior corrosion resistant stainless steel is required to filter liquids. Commonly used to strain seawater for engines, generators, HVAC systems in vessels, however can be used for other liquids that require a high grade stainless steel filter to protect pumps, nozzles and injectors from large particles.
Body Material:	Electro-polished AISI 2205 cast stainless steel
Lid Material:	Electro-polished AISI 2205 cast stainless steel
Features:	• Offset outlet for improved performance • Secured by 5 wing nuts for safe, quick and easy access • No tools required • Swing down eye bolts eliminates need to remove nuts • BSP thread inlet and outlet, flanges available on request • Full height, high impact reistant ABS basket • Cast anode connection point to combat galvanic corrosion
Options:	• 316 stainless steel basket • Clear polycarbonate or solid lid





Size BSP (inch)	Part No.	Lid	Flow Rate 1 Bar L/Min	Lid Width A mm	Height B mm	Thread Size C BSP	Thread Type	Body Width D mm	Weight (kg)	Price $ (ea)
1"	WS-BISO-100-C-A	Clear	425	150	235	1"	Male x Female	95	2.90	561.43
	WS-BISO-100-S-A	Solid	425	150	235	1"	Male x Female	95	3.10	572.34
1½"	WS-BISO-150-C-A	Clear	903	150	235	1½"	Male x Female	95	3.05	561.43
	WS-BISO-150-S-A	Solid	903	150	235	1½"	Male x Female	95	3.15	572.34
2"	WS-BISO-200-C-A	Clear	1,375	200	272	2"	Male x Female	140	5.70	904.37
	WS-BISO-200-S-A	Solid	1,375	200	272	2"	Male x Female	140	6.20	919.15
2½"	WS-BISO-250-C-A	Clear	1,974	200	272	2½"	Female x Female	140	5.90	904.37
	WS-BISO-250-S-A	Solid	1,974	200	272	2½"	Female x Female	140	6.25	919.15
3"	WS-BISO-300-C-A	Clear	3,103	235	332	3"	Female x Female	164	11.55	1572.83
	WS-BISO-300-S-A	Solid	3,103	235	332	3"	Female x Female	164	12.30	1595.42
4"	WS-BISO-400-C-A	Clear	5,710	273	474	4"	Female x Female	220	18.15	2580.27
	WS-BISO-400-S-A	Solid	5,710	273	474	4"	Female x Female	220	18.95	2595.90
6"	WS-BISO-600-S-A	Solid	13,538	360	510	6"	Female x Female	310	32.00	3515.07

Price Group: HS

AS20

ARCTIC STEEL

SISO Strainers - Side Inlet, Side Outlet

Application:	Suitable for applications where a superior corrosion resistant stainless steel is required to filter liquids. Commonly used to strain seawater for engines, generators, HVAC systems in vessels, however can be used for other liquids that require a high grade stainless steel filter to protect pumps, nozzles and injectors from large particles.
Body Material:	Electro-polished AISI 2205 cast stainless steel
Lid Material:	Electro-polished AISI 2205 cast stainless steel
Features:	• Offset inlet and outlet for improved performance • Free standing, base mounted • Secured by 5 wing nuts for safe, quick and easy access • No tools required • Swing down eye bolts eliminates need to remove nuts • BSP thread inlet and outlet, flanges available on request • Full height high impact resistant ABS basket • Cast anode connection point to combat galvanic corrosion • Drain plug • Lower outlet position allows for applications that require a header tank or mounting above the waterline
Options:	• 316 stainless steel basket • Clear polycarbonate or solid lid





Size BSP (inch)	Part No.	Lid	Flow Rate 1 Bar L/Min	Lid Width A mm	Height B mm	Thread Size C BSP	Thread Type	Body Width D mm	Weight (kg)	Price $ (ea)
1"	WS-SISO-100-C-A	Clear	332	150	235	1"	Female x Female	95	3.60	603.23
	WS-SISO-100-S-A	Solid	332	150	235	1"	Female x Female	95	3.75	614.53
1¼"	WS-SISO-125-C-A	Clear	535	200	269	1¼"	Female x Female	133	6.39	842.90
	WS-SISO-125-S-A	Solid	535	200	269	1¼"	Female x Female	133	6.85	860.81
1½"	WS-SISO-150-C-A	Clear	171	200	269	1½"	Female x Female	133	6.45	842.90
	WS-SISO-150-S-A	Solid	171	200	269	1½"	Female x Female	133	6.75	860.81
2"	WS-SISO-200-C-A	Clear	1,349	200	269	2"	Female x Female	133	6.40	842.90
	WS-SISO-200-S-A	Solid	1,349	200	269	2"	Female x Female	133	6.90	860.81
2½"	WS-SISO-250-C-A	Clear	1,882	235	365	2½"	Female x Female	164	13.35	1671.65
	WS-SISO-250-S-A	Solid	1,882	235	365	2½"	Female x Female	164	13.95	1694.92
3"	WS-SISO-300-C-A	Clear	2,761	235	365	3"	Female x Female	164	14.30	1671.65
	WS-SISO-300-S-A	Solid	2,761	235	365	3"	Female x Female	164	15.15	1694.92
4"	WS-SISO-400-C-A	Clear	5,366	273	478	4"	Female x Female	221	22.95	2939.89
	WS-SISO-400-S-A	Solid	5,366	273	478	4"	Female x Female	221	23.75	2998.94

Price Group: HS

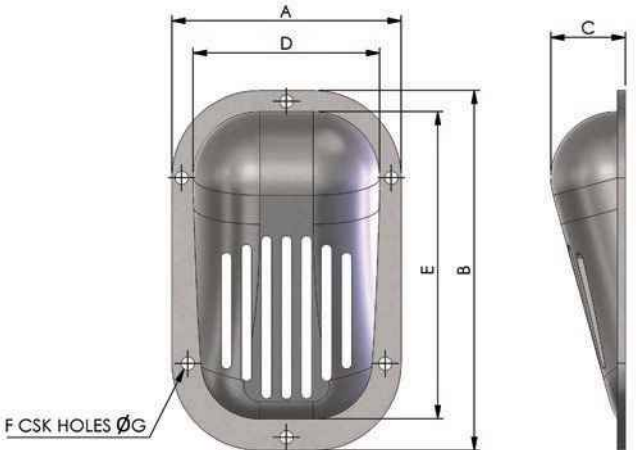
AS21

ARCTIC STEEL

Inlet Scoop Strainers



Application:	Designed to scoop water into thru hull fittings when the boat is in motion, at the same time preventing large particles and debris from entering the marine systems aboard.
Material:	Solid cast 2205 stainless steel



Style A



Style B

Size (mm)	Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Style	Fits Thru Hulls	Weight (kg)	Price $ (ea)
140 x 100	ISS140-100	100	140	28	70	115	6	5	A	½", ¾", 1"	0.40	59.98
210 x 115	ISS210-115	115	210	32	82	180	6	5	B	1¼", 1½"	0.65	88.48
315 x 160	ISS315-160	160	315	50	127	280	8	5	B	2", 2½", 3"	1.8	212.73
410 x 206	ISS410-206	206	410	60	170	370	10	5	B	4"	3.9	286.13
510 x 280	ISS510-280	275	507	70	230	470	12	6	B	6"	4.7	554.75

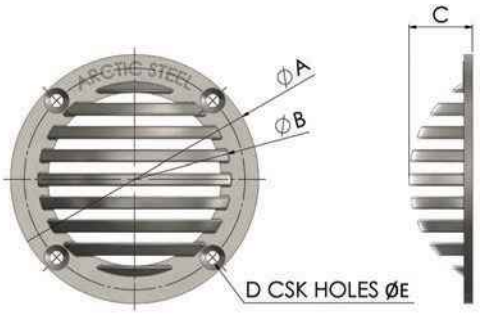
Price Group: HS

AS22

Inlet Rose Strainers







Size (mm)	Part No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Fits Thru Hulls	Weight (kg)	Price $ (ea)
90	IRS-90	90	66	23	4	5	½", ¾", 1"	0.10	40.20
150	IRS-150	153	118	35	6	5	1¼", 1½", 2", 2½", 3"	0.65	58.39

Price Group: HS

AS22

ARCTIC STEEL

Thru Hull Skin Fittings

Material:	Solid cast 2205 stainless steel

Thread BSP (inch)	Part No.	A (mm)	B (mm)	C (mm)	D (mm)	Fits Inlet Scoops	Weight (kg)	Price $ (ea)
½"	TH/SF-050A	38	12	55	38	ISS140-100, IRS-90	0.20	43.84
¾"	TH/SF-075A	45	18.5	65	45	ISS140-100, IRS-90	0.25	51.29
1"	TH/SF-100A	51.5	24	86	51.5	ISS140-100, IRS-90	0.40	65.46
1¼"	TH/SF-125A	61.5	30.9	85	63.5	ISS210-115, IRS-150	0.50	109.84
1½"	TH/SF-150A	70	40	85	70	ISS210-115, IRS-150	0.55	79.35
2"	TH/SF-200A	84	50.8	100	84	ISS315-160, IRS-150	0.80	116.79
2½"	TH/SF-250A	98	62.5	100	98	ISS315-160, IRS-150	1.30	241.16
3"	TH/SF-300A	116	78	124	116	ISS315-160, IRS-150	1.65	194.84
4"	TH/SF-400A	145	94	150	145	ISS410-206	3.60	503.36
Long Reach ¾"	TH/SF-LR-075A	45	18.5	110	45	ISS140-100	0.35	63.17
Long Reach 1"	TH/SF-LR-100A	51.5	24	110	51.5	ISS140-100	0.45	70.92
Long Reach 1½"	TH/SF-LR-150A	70	40	114.5	70	ISS210-115	0.60	101.75

Price Group: HS

AS23



Water Strainer Accessories
ABS Plastic Baskets

Size (inch)	Style	Part No.	Weight (kg)	Price $ (ea)
1" , 1½"	BISO	WS-BISO-150-005	0.05	18.25
2", 2½"	BISO	WS-BISO-250-005	0.20	21.47
3"	BISO	WS-BISO-300-005	0.25	28.64
4"	BISO	WS-BISO-400-005	0.45	39.97
6"	BISO	WS-BISO-600-005	0.75	48.46
1"	SISO	WS-SISO-100-005	0.05	18.16
1¼", 1½", 2"	SISO	WS-SISO-200-005	0.15	25.79
2½", 3"	SISO	WS-SISO-300-005	0.40	POR
4"	SISO	WS-SISO-400-005	0.60	POR

Price Group: HS

AS24



BISO

SISO

N

ARCTIC STEEL

316 Stainless Steel Baskets



BISO

SISO

Size (inch)	Style	Part No.	Weight (kg)	Price $ (ea)
1", 1½"	BISO	WS-BISO150-011-2	0.10	103.64
2", 2½"	BISO	WS-BISO250-011-2	0.45	140.88
3"	BISO	WS-BISO300-011-2	0.35	164.97
4"	BISO	WS-BISO400-011-2	0.55	218.99
6"	BISO	WS-BISO600-011-2	1.26	302.91
1¼", 1½", 2"	SISO	WS-SISO200-011-2	0.35	197.11
3"	SISO	WS-SISO300-011-2	0.85	249.52
4"	SISO	WS-SISO400-011-2	1.30	372.69

Price Group: HS
AS24

Strainer Mounting Bracket



BISO Strainer Size (inch)	Style	Part No.	Weight (kg)	Price $ (ea)
1", 1½"	BISO	WS-BR-150	0.40	62.26
2", 2½"	BISO	WS-BR-250	0.55	77.84
3"	BISO	WS-BR-300	0.60	84.48
4"	BISO	WS-BR-400	0.90	98.10

Price Group: HS
AS24

Adjustable Arms



Size	Part No.	Weight (kg)	Price $ (ea)
100mm	WS-ADJ-BR-ARM100	0.60	60.16
150mm	WS-ADJ-BR-ARM150	0.65	63.64
200mm	WS-ADJ-BR-ARM200	0.65	66.38

Price Group: HS
AS24

Strainer 316 Wing Nuts



Size	Part No.	Description	Weight (kg)	Price $ (ea)
10mm	WS-WNSS-M10	Suits all strainers	0.20	7.84

Price Group: HS
AS24

Replacement Solid Lid



Size (inch)	Style	Part No.	Weight (kg)	Price $ (ea)
1", 1½"	BISO	WS-150-002	0.45	91.92
1"	SISO			
2", 2½"	BISO	WS-250-002	1.10	182.58
1¼", 1½", 2"	SISO			
3"	BISO	WS-300-002	1.95	220.18
2½", 3"	SISO			
4"	BISO	WS-400-002	2.50	297.14
	SISO			
6"	BISO	WS-600-002	4.50	465.56

Price Group: HS
AS24

ARCTIC STEEL

Replacement Cear Lid Kit and Separate Parts

Size (inch)	Style	Part No.	Description	Weight (kg)	Price $ (ea)
1", 1½"	BISO	WS-150-010	Clear Lid Kit (Cast ring & Poly Disc)	0.30	95.02
1"	SISO				
1", 1½"	BISO	WS-150-003	Cast Retaining Ring Only	0.25	59.21
1"	SISO				
1", 1½"	BISO	WS-150-004	Polycarbonate Disc Only	0.50	35.80
1"	SISO				
2", 2½"	BISO	WS-250-010	Clear Lid Kit (Cast ring & Poly Disc)	0.70	164.68
1¼", 1½", 2"	SISO				
2" , 2½"	BISO	WS-250-003	Cast Retaining Ring Only	0.50	111.00
1¼", 1½", 2"	SISO				
2" , 2½"	BISO	WS-250-004	Polycarbonate Disc Only	0.15	53.71
1¼", 1½", 2"	SISO				
3"	BISO	WS-300-010	Clear Lid Kit (Cast ring & Poly Disc)	1.00	196.92
2½", 3"	SISO				
3"	BISO	WS-300-003	Cast Retaining Ring Only	0.70	114.56
2½", 3"	SISO				
3"	BISO	WS-300-004	Polycarbonate Disc Only	0.30	82.35
2½", 3"	SISO				
4"	BISO	WS-400-010	Clear Lid Kit (Cast ring & Poly Disc)	1.87	295.35
	SISO				
4"	BISO	WS-400-003	Cast Retaining Ring Only	1.45	202.28
	SISO				
4"	BISO	WS-400-004	Polycarbonate Disc Only	0.42	107.39
	SISO				

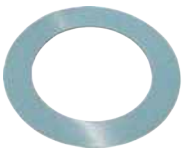


Price Group: HS

AS24

Strainer Gaskets

Size (inch)	Style	Part No.	Weight (kg)	Price $ (ea)
1", 1½"	BISO	WS-150-006	0.02	6.72
1"	SISO			
2", 2½"	BISO	WS-250-006	0.05	9.30
1¼", 1½", 2"	SISO			
3"	BISO	WS-300-006	0.05	12.17
2½", 3"	SISO			
4"	BISO	WS-400-006	0.10	13.61
	SISO			
6"	BISO	WS-600-006	0.13	17.90



Price Group: HS

AS24

Valves

Options:	316 Stainless Steel Valves for Marine please refer to the Valve Section – M • Ball Valves pages 488. • Gate Valves pages 496. • Butterfly Valves pages 503.

Hose

Options:	A wide range of hoses are available for Marine including, Wet Exhaust, Fuel, Sanitation and a wide variety of PVC. Please refer to the Hose section – A, and look for the Marine Symbol - pages 60.

N

ARCTIC STEEL

Plasson® Fittings Index



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Metric Fittings

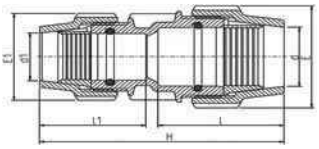
Application:	Plasson Compression Fittings are designed for connecting all forms of PE Pipe. Common applications include Underground and Surface Mining, Plumbing, Irrigations, Civil Construction, Gas Installation, Industrial Fluid Transfer and Waste Water Systems.
Body Material:	Polypropylene, high-grade copolymer
Nut Material:	Polypropylene, high-grade copolymer
Split Ring Material:	Polyacetal
Seal Material:	NBR
Pressure Rater Water:	PN16
Product Components:	2 Split Rings, 2 Seals, 2 Nuts
Standards:	ISO 17885, AS/NS 4129, ISO 7/1, BS 21, DIN 2999, UNI 9561, NEN 3258, AS 1722, DIN 8076
Chemical Resistance:	Polyacetal split rings and NBR seals, suitable for water, are supplied as standard. CPVC split rings and EPDM or FPM seals are available. For agressive chemical applications, the end user is advised to test suitability.
Operating Temperatures:	Maximum temperature of use for fittings and valves is the same as that for polyethylene pipe and the are not intended for use in hot water applications. The will withstand sub-zero temperatures.



7110 - Metric Reducing Coupling

d (mm)	d1 (mm)	Part No.	H (mm)	E (mm)	E1 (mm)	I (mm)	I1 (mm)	Weight (g)	Price $
25	16	PCF-COUP-25-16	113	54	39	58	50	88	11.79
25	20	PCF-COUP-25-20	119	54	48	58	57	100	11.79
32	20	PCF-COUP-32-20	140	64	48	67	57	142	16.46
32	25	PCF-COUP-32-25	133	64	54	67	58	143	16.46
40	25	PCF-COUP-40-25	156	82	54	84	58	219	25.76
40	32	PCF-COUP-40-32	156	82	64	84	67	245	25.76
50	25	PCF-COUP-50-25	176	96	54	93	58	304	36.90
50	32	PCF-COUP-50-32	175	96	64	98	62	332	36.90
50	40	PCF-COUP-50-40	184	96	82	93	84	380	36.90
75	50	PCF-COUP-75-50	245	134	96	132	98	845	105.21
75	63	PCF-COUP-75-63	252	134	113	132	112	960	105.21
90	75	PCF-COUP-90-75	330	154	134	170	134	1609	156.26
110	90	PCF-COUP-110-90	378	181	154	194	162	2643	259.35





Price Group: SD

MS01

7115 - Metric Mine Reducing Coupling

d (mm)	d1 (mm)	Part No.	H (mm)	E (mm)	E1 (mm)	I (mm)	I1 (mm)	Weight (g)	Price $
63	25	PCF-COUP-63-25	193	113	54	110	58	461	49.67
63	32	PCF-COUP-63-32	197	113	64	110	62	486	49.67
63	40	PCF-COUP-63-40	208	113	82	110	82	546	49.67
63	50	PCF-COUP-63-50	214	113	96	110	93	574	49.67
90	63	PCF-COUP-90-63	292	154	113	170	115	1415	156.26
110	63	PCF-COUP-110-63	393	181	181	194	194	3662	416.17

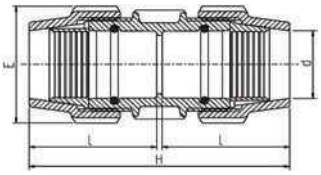


Price Group: SD

MS01

7010 - Metric Couplings





d (mm)	Part No.	H (mm)	E (mm)	I (mm)	Weight (g)	Price $
20	PCF-COUP-20	122	48	59	93	9.80
25	PCF-COUP-25	126	54	61	110	10.13
32	PCF-COUP-32	145	64	71	187	15.21
40	PCF-COUP-40	177	82	87	310	24.00
50	PCF-COUP-50	201	96	98	455	34.36
75	PCF-COUP-75	278	134	138	1183	95.04
90	PCF-COUP-90	335	154	165	1898	150.21
110	PCF-COUP-110	393	181	194	3129	201.96

Price Group: SD

MS01

7015 - Metric Mine Couplings



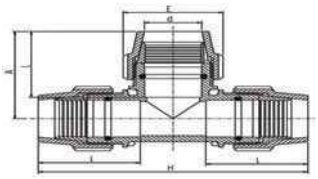
d (mm)	Part No.	H (mm)	E (mm)	I (mm)	Weight (g)	Price $
63	PCF-COUP-63	230	113	113	741	38.75

Price Group: SD

MS01

7040 - Metric Equal Tee





d (mm)	Part No.	A (mm)	H (mm)	E (mm)	I (mm)	Weight (g)	Price $
16	PCF-TEE-16	63	126	39	50	83	14.71
20	PCF-TEE-20	73	145	48	56	141	20.07
25	PCF-TEE-25	78	156	54	58	173	17.70
32	PCF-TEE-32	93	185	64	67	285	32.83
40	PCF-TEE-40	111	221	82	86	501	46.85
50	PCF-TEE-50	126	252	96	95	738	68.07
75	PCF-TEE-75	177	353	132	132	1885	150.21
90	PCF-TEE-90	220	439	154	165	3161	228.87
110	PCF-TEE-110	292	583	181	194	5584	348.93

Price Group: SD

MS01

7045 - Metric Mine Tee



d (mm)	Part No.	A (mm)	H (mm)	E (mm)	I (mm)	Weight (g)	Price $
63	PCF-TEE-63	146	294	113	110	1215	71.96

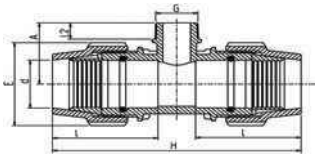
Price Group: SD

MS01

7840 - Metric Tee x Male BSP

d (mm)	G (mm)	Part No. UOM	A (mm)	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
20	1/2"	PCF-TEE-20-15M	46	138	48	56	17	105	16.88
20	3/4"	PCF-TEE-20-20M	46	144	48	56	18	108	16.88
25	1/2"	PCF-TEE-25-15M	48	146	54	58	17	134	15.82
25	3/4"	PCF-TEE-25-20M	50	146	54	58	18	137	16.46
32	1"	PCF-TEE-32-25M	58	170	64	67	20	218	27.05
40	1 1/2"	PCF-TEE-40-40M	71	205	82	84	22	376	35.33
50	1 1/2"	PCF-TEE-50-40M	77	230	96	93	22	520	58.55





Price Group: SD

MS01

7845 - Metric Mine Tee x Male BSP

d (mm)	G (mm)	Part No. UOM	A (mm)	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63	2"	PCF-TEE-63-50M	92	272	113	110	26	877	74.27



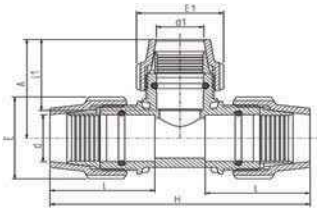
Price Group: SD

MS01

7340 - Metric Reducing Tee

d (mm)	d1 (mm)	Part No.	A (mm)	H (mm)	E (mm)	E1 (mm)	I (mm)	I1 (mm)	Weight (g)	Price $
32	25	PCF-TEE-32-25	63	173	64	54	67	58	256	29.32
40	25	PCF-TEE-40-25	84	205	82	54	84	58	412	48.56
50	25	PCF-TEE-50-25	105	228	96	54	93	76	543	68.17
50	32	PCF-TEE-50-32	117	230	96	64	93	67	645	68.17
50	40	PCF-TEE-50-40	114	236	113	64	113	62	892	68.17
75	63	PCF-TEE-75-63	153	353	132	113	132	109	1667	172.50
110	63	PCF-TEE-110-63	292	583	181		194		6128	483.50





Price Group: SD

MS01

7345 - Metric Mine Reducing Tee

d (mm)	d1 (mm)	Part No.	A (mm)	H (mm)	E (mm)	E1 (mm)	I (mm)	I1 (mm)	Weight (g)	Price $
63	32	PCF-TEE-63-32	118	268	113	82	113	84	892	100.17
63	50	PCF-TEE-63-50	132	275	113	96	110	93	1020	100.17

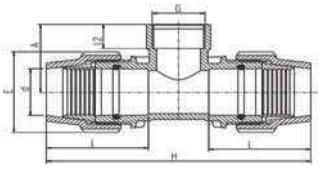


Price Group: SD

MS01

7140 - Metric Tee x Female BSP





d (mm)	G (mm)	Part No.	A (mm)	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
16	1/2"	PCF-TEE-16-15F	42	122	39	50	17	62	13.46
16	3/4"	PCF-TEE-16-20F	41	122	39	50	19	65	13.46
20	3/4"	PCF-TEE-20-20F	45	144	48	56	19	110	16.05
25	1/2"	PCF-TEE-25-15F	45	151	54	58	18	130	16.05
25	3/4"	PCF-TEE-25-20F	48	151	54	58	19	140	16.05
25	1"	PCF-TEE-25-25F	53	158	54	58	51	140	16.56
25	1 1/4"	PCF-TEE-25-32F	64	158	54	58	25	194	22.29
32	3/4"	PCF-TEE-32-20F	51	177	64	67	19	209	26.68
32	1"	PCF-TEE-32-25F	54	177	64	67	21	213	26.68
32	1 1/4"	PCF-TEE-32-32F	65	182	64	67	25	253	26.68
40	1"	PCF-TEE-40-25F	61	203	82	84	21	357	39.03
40	1 1/4"	PCF-TEE-40-32F	70	217	82	84	24	403	39.03
40	1 1/2"	PCF-TEE-40-40F	70	217	82	84	25	413	38.85
50	1 1/2"	PCF-TEE-50-40F	76	244	96	93	25	573	57.16
50	2"	PCF-TEE-50-50F	80	244	96	93	30	588	57.16
75	2"	PCF-TEE-75-50F	110	359	134	132	30	1456	127.45
90	3'	PCF-TEE-90-75F	116	419	154	165	40	2354	235.62

Price Group: SD

MS01

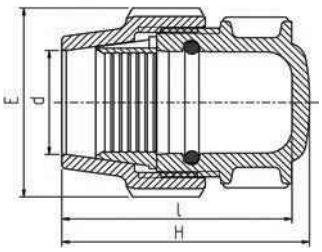
7145 - Metric Mine Tee x Female BSP



d (mm)	G (mm)	Part No.	A (mm)	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63	2"	PCF-TEE-63-50F	95	272	113	110	30	912	69.74

7120 - Metric End Plug





d (mm)	Part No.	A (mm)	E (mm)	I (mm)	Weight (g)	Price $
25	PCF-PLUG-25	82	54	77	72	7.40
32	PCF-PLUG-32	92	64	87	108	7.54
40	PCF-PLUG-40	102	82	97	186	15.35
50	PCF-PLUG-50	121	96	114	269	20.81
75	PCF-PLUG-75	172	134	155	710	75.75
90	PCF-PLUG-90	212	154	170	1139	105.86

Price Group: SD

MS01

7125 - Metric Mine End Plug



d (mm)	Part No.	A (mm)	E (mm)	I (mm)	Weight (g)	Price $
63	PCF-PLUG-63	145	113	122	448	35.42

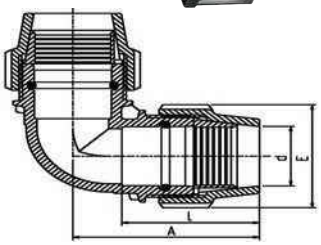
Price Group: SD

MS01

7050 - Metric Elbow

d (mm)	Part No.	A mm)	E (mm)	I (mm)	Weight (g)	Price $
16	PCF-ELB90-16	63	39	50	57	11.05
20	PCF-ELB90-20	73	48	56	95	14.75
25	PCF-ELB90-25	79	54	58	122	13.23
32	PCF-ELB90-32	93	64	67	187	20.44
40	PCF-ELB90-40	108	82	82	341	33.34
50	PCF-ELB90-50	127	96	93	495	43.47
75	PCF-ELB90-75	178	134	132	1304	98.18
90	PCF-ELB90-90	217	154	162	2168	153.95
110	PCF-ELB90-110	292	181	194	3810	202.23





Price Group: SD

MS01

7055 - Metric Mine Elbow

d (mm)	Part No.	A (mm)	E (mm)	I (mm)	Weight (g)	Price $
63	PCF-ELB90-63	151	113	110	838	52.15



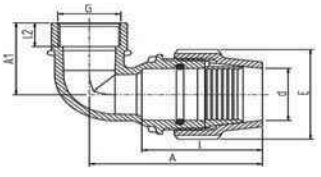
Price Group: SD

MS01

7150 - Metric Elbow x Female BSP

d (mm)	G (mm)	Part No.	A (mm)	A1 (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
20	19.05	PCF-ELB-20-20F	78	44	48	57	19	71	10.13
25	19.05	PCF-ELB-25-20F	81	46	54	58	19	81	11.10
25	12.70	PCF-ELB-25-15F	81	46	54	58	18	86	10.50
25	25.40	PCF-ELB-25-25F	83	50	54	58	21	90	11.10
32	25.40	PCF-ELB-32-25F	95	54	64	67	21	136	16.93
32	31.75	PCF-ELB-32-32F	99	60	64	67	25	167	16.93
40	25.40	PCF-ELB-40-25F	119	52	82	84	21	201	26.92
40	31.75	PCF-ELB-40-32F	119	62	82	84	25	245	26.92
40	38.10	PCF-ELB-40-40F	119	62	82	84	25	261	26.92
50	25.40	PCF-ELB-50-25F	133	57	96	93	21	280	38.25
50	31.75	PCF-ELB-50-32F	133	67	96	93	25	312	38.25
50	38.10	PCF-ELB-50-40F	135	66	96	93	25	344	38.25
50	50.80	PCF-ELB-50-50F	138	85	96	93	30	387	38.25
75	50.80	PCF-ELB-75-50F	188	100	134	132	30	810	80.88





Price Group: SD

MS01

7155 - Metric Elbow x Female BSP

d (mm)	G (mm)	Part No.	A (mm)	A1 (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63	2"	PCF-ELB-63-50F	160	90	113	110	30	559	45.64



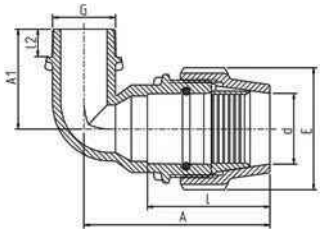
Price Group: SD

MS01

PLASSON®

7850 - Metric Elbow x Male BSP





d (mm)	G (mm)	Part No.	A (mm)	A1 (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
20	3/4"	PCF-ELB-20-20M	7	43	48	57	18	59	10.31
25	1/2"	PCF-ELB-25-15M	85	47	54	17	10	70	13.87
25	3/4"	PCF-ELB-25-20M	90	48	54	58	18	79	13.87
25	1"	PCF-ELB-25-25M	90	54	54	58	20	84	13.87
32	1"	PCF-ELB-32-25M	104	55	64	67	20	128	19.70
32	1 1/4"	PCF-ELB-32-32M	104	58	64	67	22	135	19.70
40	1"	PCF-ELB-40-25M	124	60	82	84	20	196	34.04
40	1 1/2"	PCF-ELB-40-40M	124	66	82	84	22	220	34.04
50	1 1/2"	PCF-ELB-50-40M	144	74	96	93	22	321	38.01
50	2"	PCF-ELB-50-50M	144	76	96	93	26	373	38.01
75	3"	PCF-ELB-75-75M	202	110	154	165	35	1300	64.93

Price Group: SD

MS01

7855 - Metric Mine Elbow x Male BSP



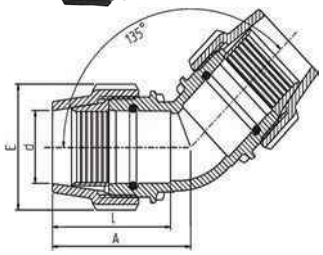
d (mm)	G (mm)	Part No.	A (mm)	A1 (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63	2"	PCF-ELB-63-50M	170	92	113	110	26	518	52.49

Price Group: SD

MS01

7060 - 45º Metric Elbow





d (mm)	Part No.	A (mm)	E (mm)	I (mm)	Weight (g)	Price $
32	PCF-ELB45-32	92	64	67	189	24.23
50	PCF-ELB45-50	110	96	93	474	51.29
110	PCF-ELB45-110	235	181	194	3418	285.20

Price Group: SD

MS01

7065 - 45º Metric Mine Elbow



d (mm)	Part No.	A (mm)	E (mm)	I (mm)	Weight (g)	Price $
63	PCF-ELB45-63	130	113	110	772	69.42

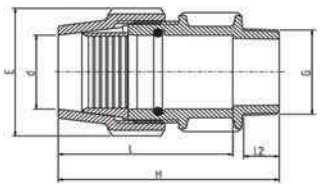
Price Group: SD

MS01

7020 - Metric Adaptor x BSP Male

d (mm)	G (mm)	Part No.	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
20	1/2"	PCF-AM-20-15	92	48	71	17	58	6.71
20	3/4"	PCF-AM-20-20	92	48	71	18	59	6.71
20	1"	PCF-AM-20-25	86	48	52	20	60	6.71
25	1/2"	PCF-AM-25-15	94	54	72	17	68	7.03
25	3/4"	PCF-AM-25-20	95	54	72	18	73	7.03
25	1"	PCF-AM-25-25	97	54	72	20	79	6.26
32	1"	PCF-AM-32-25	107	64	83	20	122	10.45
32	1 1/4"	PCF-AM-32-32	110	64	83	22	114	10.45
40	1"	PCF-AM-40-25	118	82	91	20	184	14.34
40	1 1/4"	PCF-AM-40-32	117	82	90	22	185	14.34
40	1 1/2"	PCF-AM-40-40	117	82	90	22	185	14.34
40	2"	PCF-AM-40-50	123	82	91	26	208	14.34
50	1 1/4"	PCF-AM-50-32	136	96	106	22	265	22.48
50	1 1/2"	PCF-AM-50-40	136	96	109	22	276	22.48
50	2"	PCF-AM-50-50	140	96	109	26	283	22.48
75	2"	PCF-AM-75-50	188	132	150	26	710	72.33
75	2 1/2"	PCF-AM-75-63	191	132	150	29	712	72.33
75	3"	PCF-AM-75-75	195	132	150	33	178	72.33
90	2"	PCF-AM-90-50	227	152	170	26	1123	105.86
90	3"	PCF-AM-90-75	232	152	170	33	1133	105.86
110	2"	PCF-AM-110-50	261	181	213	26	1845	176.66
110	3"	PCF-AM-110-75	256	181	213	34	1850	176.66
110	4"	PCF-AM-110-100	265	181	213	42	1872	181.98





Price Group: SD

MS01

7025 - Metric Mine Adaptor x BSP Male

d (mm)	G (mm)	Part No.	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63	1 1/2"	PCF-AM-63-40	154	113	123	22	450	31.17
63	2"	PCF-AM-63-50	167	112	123	26	461	32.09
63	2 1/2"	PCF-AM-63-63	160	113	123	29	459	31.17

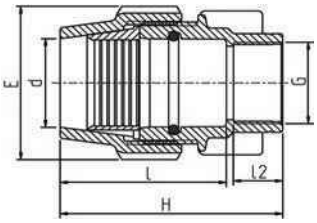


Price Group: SD

MS01

7030 - Metric Adaptor x BSP Female





d (mm)	G (mm)	Part No.	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
16	1/2"	PCF-AF-16-15	73	39	52	19	36	7.77
20	1/2"	PCF-AF-20-15	82	48	60	19	60	8.05
20	3/"	PCF-AF-20-20	82	48	60	19	58	8.05
20	1"	PCF-AF-20-25	92	48	57	21	68	8.05
25	3/4"	PCF-AF-25-20	88	54	63	21	83	9.34
25	1"	PCF-AF-25-25	88	54	63	21	78	8.30
32	1"	PCF-AF-32-25	94	64	69	21	115	11.19
32	1 1/4"	PCF-AF-32-32	96	64	67	25	140	16.09
40	1"	PCF-AF-40-25	112	82	84	21	178	16.09
40	1 1/2"	PCF-AF-40-40	114	82	84	25	225	16.09
50	1 1/2"	PCF-AF-50-40	123	96	93	25	276	21.74
50	2"	PCF-AF-50-50	128	96	93	30	293	21.74
75	2"	PCF-AF-75-50	175	132	132	30	662	72.00
90	2"	PCF-AF-90-50	213	154	183	30	1137.9	107.01
90	3"	PCF-AF-90-75	223	154	183	40	1204	107.01
110	3"	PCF-AF-110-75	261	181	213	40	1915	199.92
110	4"	PCF-AF-110-100	271	181	213	50	2048	199.92

Price Group: SD

MS01

7035 - Metric Mine Adaptor x BSP Female



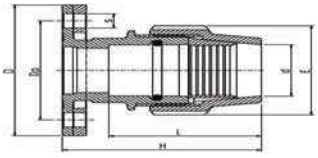
d (mm)	G (mm)	Part No.	H (mm)	E (mm)	I (mm)	I2 (mm)	Weight (g)	Price $
63		PCF-AF-63-50	148	113	110	30	442	39.91

Price Group: SD

MS01

7220 - Metric Flanged x Adaptors





d (mm)	DN (TE)	Part No.	D (mm)	H (mm)	Dp (mm)	E (mm)	I (mm)	S (mm)	Weight (g)	Price $
50	2"	PCF-AFL-50-50	165	128	125	96	93	18	1507	93.42
63	2 1/2"	PCF-AFL-50-63	165	145	125	113	110	18	1559	93.42
75	3"	PCF-AFL-75-75	185	164	145	134	152	18	2089	135.78
90	4"	PCF-AFL-90-100	220	195	180	154	183	18	3161	155.57
110	4"	PCF-AFL-110-100	220	235	180	181	222	18	3322	181.79

Price Group: SD

MS01

7225 - Metric Mine Flanged x Adaptors



d (mm)	DN (TE)	Part No.	D (mm)	H (mm)	Dp (mm)	E (mm)	I (mm)	S (mm)	Weight (g)	Price $
63	2 1/2""	PCF-AFL-63-63	165	145	125	113	110	18	1559	108.45

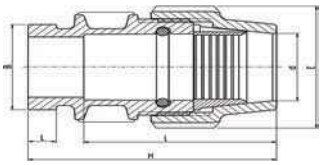
Price Group: SD

MS01

7320 - Metric Shouldered Adaptor

d (mm)	DN (mm)	Part No.	L (mm)	H (mm)	B (mm)	E (mm)	I (mm)	Weight (g)	Price $
50	50 / 2"	PCF-ASH-50-50	16	138	67	96	109	292	33.25
63	50 / 2"	PCF-ASH-63-50	16	156	67	113	123	437	35.84
90	100 / 4"	PCF-ASH-90-100	16	231	123	154	170	1213	102.39
110	100 / 4"	PCF-ASH-110-100	16	255	123	181	213	1874	140.40



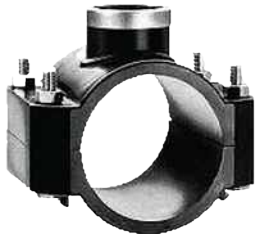


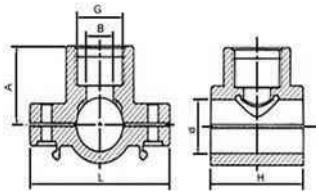
Price Group: SD

MS01

1607 - Metric Tapping Saddles

d (mm)	G (mm)	Part No.	L (mm)	A (mm)	H (mm)	B (mm)	Weight (g)	Price $
32	1/2"	PTF-SAD-32-15	92	40	60	16	133	11.42
32	3/4""	PTF-SAD-32-20	92	41	60	16	135	11.42
32	1"	PTF-SAD-32-25	92	42	60	20	142	11.42
40	3/4"	PTF-SAD-40-20	92	46	60	19	143	12.95
40	1"	PTF-SAD-40-25	92	49	60	25	151	12.95
50	3/4"	PTF-SAD-50-20	106	52	73	21	180	14.52
50	1"	PTF-SAD-50-25	106	54	73	25	187	14.52
63	3/4"	PTF-SAD-63-20	116	59	84	20	279	18.78
63	1"	PTF-SAD-63-25	116	61	84	25	286	18.78
63	1 1/4"	PTF-SAD-63-32	116	66	84	32	308	18.78
63	1 1/2"	PTF-SAD-63-40	116	67	84	39	322	18.78
75	1"	PTF-SAD-75-25	122	67	98	25	376	23.03
75	2"	PTF-SAD-75-50	122	78	98	40	433	23.03
90	1"	PTF-SAD-90-25	141	75	105	25	460	27.75
90	2"	PTF-SAD-90-50	141	86	105	50	511	27.75
110	1"	PTF-SAD-110-25	165	87	116	25	567	33.99
110	2"	PTF-SAD-110-50	165	97	116	50	615	33.99
140	2"	PTF-SAD-140-50	201	112	136	50	938	63.91
160	1"	PTF-SAD-160-25	223	112	145	25	1039	88.88
160	2"	PTF-SAD-160-50	223	123	145	50	1080	88.88
180	1"	PTF-SAD-180-25	245	122	154	25	1300	109.37
180	2"	PTF-SAD-180-50	245	133	154	50	1334	109.37





Price Group: SD

MS01

7002 Metric O-Rings



d (mm)	Part No.	Weight (g)	Price $
50	PCF-ORING-50	16	1.94
63	PCF-ORING-63	18	2.91
110	PCF-ORING-110	30	6.71

Price Group: SD

MS01

7003 Split Rings



d (mm)	Part No.	Weight (g)	Price $
63	PCF-SPLIT-63	45	3.88
110	PCF-SPLIT-110	150	17.94

Price Group: SD

MS01

7004 Metric Nuts



d (mm)	Part No.	Weight (g)	Price $
63 [1]	PCF-NUT-63	166	8.42
110	PCF-NUT-110	744	62.99

[1] 63mm insert for metric mine fittings Plasson series 1400

Price Group: SD

MS01

7005 Metric Inserts



d (mm)	Part No.	Weight (g)	Price $
63	PCF-INSERT-63	45	1.48
90	PCF-INSERT-90	99	4.99
110	PCF-INSERT-110	147	6.20

Price Group: SD

MS01

7930 Metric Mine Reducing Sets

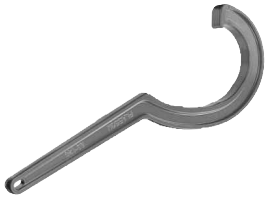


d1 (mm)	Part No.	d (mm)	E (mm)	l (mm)	Weight (g)	Price $
63	PCF-REDK-110-63	110	181	131	703	134.58

Price Group: SD

MS01

7990 Metric Wrenches



d (mm)	Part No.	Weight (g)	Price $
16 x 40 mm	PCF-SPAN-16-40	1507	18.82
40 x 75 mm	PCF-SPAN-40-75	1559	103.53
63 x 125 mm	PCF-SPAN-63-125	3161	129.03

Price Group: SD

MS01

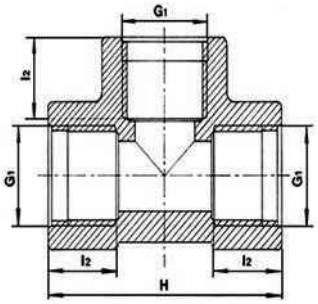
BSP Fittings



Application:	Suitable for use in General Low pressure air and water applications.
Body Material:	Polypropylene
Pressure Rater Water:	PN10
Chemical Resistance:	Line 5 threaded fittings are produced from PP and designed to work with cold water.
Recommendation:	We recommend the use of PTFE tape in threaded connections.

5040 - BSP Tee





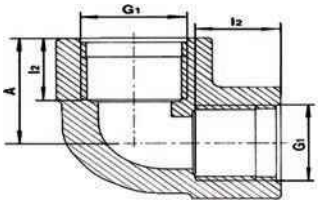
G1 (mm)	Part No.	H (mm)	l2 (mm)	Weight (g)	Price $
1/2"	PTF-TEE-15	64	18	25	6.71
3/4"	PTF-TEE-20	68	19	39	7.49
1"	PTF-TEE-25	81	21	61	9.34
1 1/2"	PTF-TEE-40	108	25	157	18.41
2"	PTF-TEE-50	130	30	205	22.80

Price Group: SD

MS01

5050 - BSP Elbow





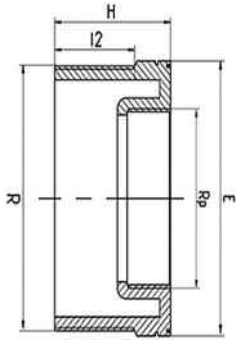
G1 (mm)	Part No.	H (mm)	l2 (mm)	Weight (g)	Price $
1/2"	PTF-EFF-15	32	17	22	POR
3/4"	PTF-EFF-20	35	18	30	POR
1"	PTF-EFF-25	41	21	45	POR
1 1/4"	PTF-EFF-32	48	25	87	POR
1 1/2"	PTF-EFF-40	54	25	116	POR
2"	PTF-EFF-50	65	30	157	POR

Price Group: SD

MS01

5020 - BSP Reducing Bush





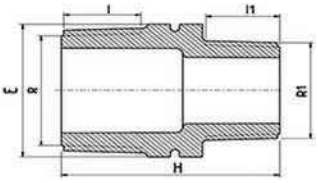
R (mm)	Rp (mm)	Part No.	H (mm)	I2 (mm)	E (mm)	Weight (g)	Price $
3/4"	1/2"	PTF-BUSH-20-15	30	17	27	6	4.12
1"	1/2"	PTF-BUSH-25-15	32	19	36	16	4.12
1"	3/4"	PTF-BUSH-25-20	32	19	36	11	4.12
1 1/4"	3/4"	PTF-BUSH-32-20	37	21	46	28	5.04
1 1/4"	1"	PTF-BUSH-32-25	37	21	46	21	5.04
1 1/2"	3/4"	PTF-BUSH-40-20	37	21	50	30	5.78
1 1/2"	1"	PTF-BUSH-40-25	37	21	50	32	5.78
1 1/2"	1 1/4"	PTF-BUSH-40-32	37	21	50	20	5.78
2"	3/4"	PTF-BUSH-50-20	41	25	63	58	6.43
2"	1"	PTF-BUSH-50-25	41	26	63	61	6.43
2"	1 1/4"	PTF-BUSH-50-32	41	26	63	55	6.43
2"	1 1/2"	PTF-BUSH-50-40	41	26	63	44	6.43
2 1/2"	2"	PTF-BUSH-65-50	44	29	80	75	19.24
3"	2"	PTF-BUSH-80-50	48	32	90	103	24.56
4"	3"	PTF-BUSH-100-80	56	41	120	222	24.56

Price Group: SD

MS01

5060 - BSP Nipple





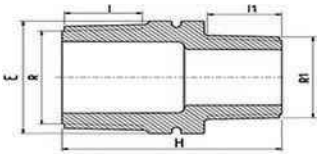
R (mm)	Part No.	H (mm)	I2 (mm)	E (mm)	Weight (g)	Price $
1/2"	PTF-HN-15	47	17	22	8	1.99
3/4"	PTF-HN-20	49	18	27	11	2.59
1"	PTF-HN-25	55	20	36	23	3.10
1 1/4"	PTF-HN-32	60	22	46	35	4.12
1 1/2"	PTF-HN-40	61	22	50	48	5.04
2"	PTF-HN-50	71	26	65	78	7.03

Price Group: SD

MS01

5060 - BSP Reducing Nipple





R (mm)	R1 (mm)	Part No.	H (mm)	I (mm)	I1 (mm)	E (mm)	Weight (g)	Price $
3/4"	1/2"	PTF-HN-20-15	47	17	16	27	10	3.01
1"	1/2"	PTF-HN-25-15	49	19	16	36	17	3.75
1"	3/4"	PTF-HN-25-20	50	19	17	36	18	3.75
2"	1"	PTF-HN-50-25	61	25	19	63	53	6.94

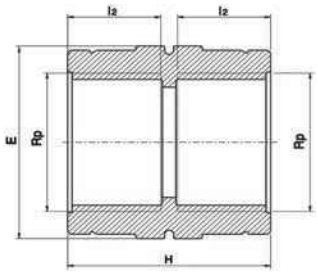
Price Group: SD

MS01

5010 - BSP Socket

Rp (mm)	Part No.	H (mm)	l2 (mm)	E (mm)	Weight (g)	Price $ (ea)
1/2"	PCF-SOC-15	39	17	30	15	POR
3/4"	PCF-SOC-20	41	19	36	19	POR
1"	PCF-SOC-25	45	21	46	31	POR
1 1/4"	PCF-SOC-32	54	25	60	65	POR
1 1/2"	PCF-SOC-40	54	25	65	76	POR
2"	PCF-SOC-50	66	31	75	92	POR

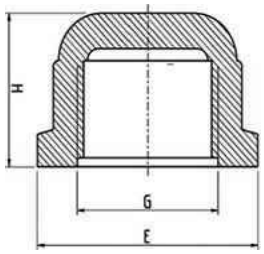




5070 - BSP End Cap

Rp (mm)	Part No.	H (mm)	l2 (mm)	E (mm)	Weight (g)	Price $ (ea)
3/4"	PTF-CAP-20	26	16	42	14	2.82
1"	PTF-CAP-25	32	19	50	27	3.47
1 1/4"	PTF-CAP-32	34	22	59	39	4.53
1 1/2"	PTF-CAP-40	34	21	65	43	6.10
2"	PTF-CAP-50	39	25	80	78	8.42

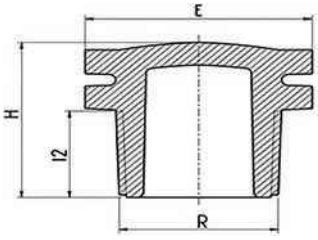




5170 - BSP End Plug

R (mm)	Part No.	H (mm)	l2 (mm)	E (mm)	Weight (g)	Price $ (ea)
1/2"	PTF-HP-15	29	16	27	8	1.90
3/4"	PTF-HP-20	31	17	32	12	1.90
1"	PTF-HP-25	34	19	36	16	2.27
1 1/4"	PTF-HP-32	38	21	46	26	3.05
1 1/2"	PTF-HP-40	39	21	55	38	3.84
2"	PTF-HP-50	45	25	65	60	5.04





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PLASSON®

Specialty Mining Products Index



P

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Pelican Picks

Features:	The pelican pick will shovel, hoe, scrape, dig trenches and pick. It is extremely durable and will stand up to the roughest treatment. Manufactured from high grade heavy gauge steel plate, the pelican pick is virtually indestructible.

Part No.	Handle	Weight (kg)	Price $ (ea)
08/080/01/000	Wooden	2.5	102.37
08/080/01/000C	High visibility (orange), shockproof	2.5	89.22

Price Group: SD

AF03



Wooden handle

High visibility (orange), shockproof handle

Rock Bolt Wedges

Features:	Diamond head to suit 1" or ⅞" wedge type rock bolts. Manufactured from SG Iron to ISO 1083 : 400-250-15 SGI. Available in pack quantity of 100 only.

Part No.	Description	Pack Qty	Price $ (ea)
08/056/03/000	Diamond Head Rock Wedges	100	8.67

Price Group: SD

AC05



Scaling Bars

Features:	Used in the mining industry for prying overhanging rock. Forged from chrome alloy steel. Heat treated blades for maximum toughness. Hexagon profile for greater control. Heel offset to 40° for optimum levering.

Alloy Steel				
Chisel Width (mm)	Bar ID (mm)	Length	Part No.	Price $ (ea)
28	20	1200mm (4')	05/100/02/295	191.94
28	20	1500mm (5')	05/100/01/112	171.72
28	20	1800mm (6')	05/100/01/113	215.25
28	20	2100mm (7')	05/100/01/111	219.02

Price Group: SD

BH02

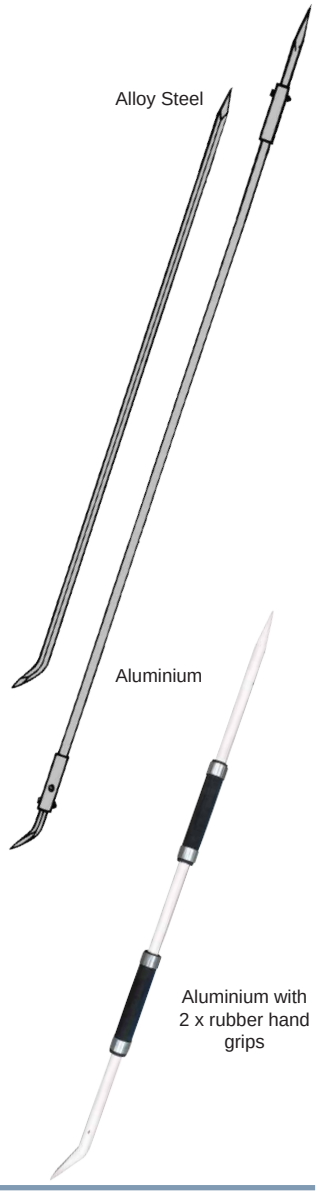
Features:	Used in the mining industry for prying overhanging rock. Premium 6060 grade aluminium tube body for light weight and less user fatigue. Inserted steel ends forged from tough carbon manganese steel. Heel offset to 40° for optimum levering. Round profile for ease of use.

Aluminium				
Chisel Width (mm)	Bar ID (mm)	Length	Part No.	Price $ (ea)
28	25	1200mm (4')	08/100/01/065	264.40
28	25	1500mm (5')	08/100/01/946	354.17
28	25	1800mm (6')	08/100/01/066	287.39
28	25	2400mm (8')	08/100/01/861	375.11
28	25	3000mm (10')	08/100/01/279	347.19
28	25	3350mm (11')	08/100/01/182	POR
28	25	3600mm (12')	08/100/01/183	426.25
28	25	4300mm (14')	08/100/02/222	519.60
Aluminium with 2 x Rubber Hand Grips				
Chisel Width (mm)	Bar ID (mm)	Length	Part No.	Price $ (ea)
28	20	1200mm (4')	SBAR22X1200F	POR
28	20	1500mm (5')	SBAR22X1500F	POR
28	20	1800mm (6')	SBAR22X1800F	POR
28	20	2100mm (7')	SBAR22X2100F	POR

Price Group: SD

BH02

BH01



Alloy Steel

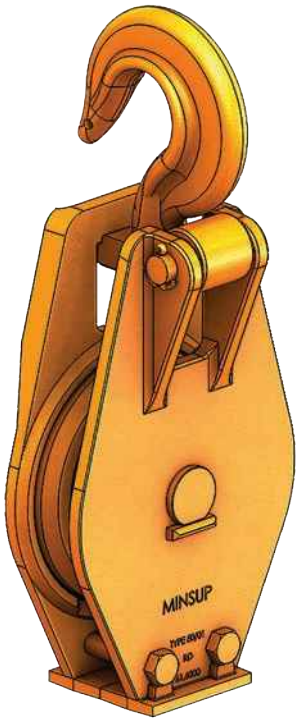
Aluminium

Aluminium with 2 x rubber hand grips

P

Scraper Block

minsup



Minsup™ Scraper Blocks possess some very intelligent features, that's why you'll find Minsup™'s 2.037 tonne scraper blocks on oil fields and construction sites, lumber yards, inside industrial workshops and in underground mines.

The unit features shielded bearings to prohibit the entry of dirt and water. During assembly the bearings are packed in grease to last for life. The hook is forged from strong, dependable alloy steel (safe up to 2.037 tonne), side plates and the sheave wheels are cast in SG Iron. The block is suitable for either (1/2") 12.7 mm or (5/8") 15.9 mm SWR.

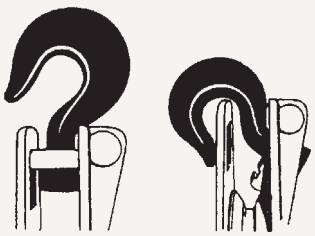
Features

- Side plates and sheave wheel are cast in SG iron
- Hook is forged from alloy steel
- M16 bolts are 8.8 high tensile
- M16 Nyloc nuts are grade 8
- Bearing is shielded to prohibit the entry of dirt and water
- Sealed bearing used to remove the need for maintenance
- Hook swivels
- Suitable for use on (1/2") 12.7mm or (5/8") 15.9mm steel wire rope
- Safe working load 2 tonne (safety factor 5:1)
- Assembly weight 20kgs

Feature:	Unique design allows cable to be passed between latch plate and side plate eliminating reeving.

Part No.	Weight (kg)	Price $ (ea)
08/050/01X/00	20	820.18

Price Group: SD
AC04



The Snatch Principle

Minsup™ 152mm (6") Block incorporates this very smart idea. Reeving is eliminated and first entry or removal of fixed end steel rope is made easy. Note too that the hook swivels.

Safety factor 5.

P

Quotation Form
Pressure ANFO Loaders

minsup



Minsup™ pressure loaders are manufactured in several sizes 45, 100, 200, 250, 500 kg capacities and are designed for loading prilled ammonium nitrate/fuel oil (ANFO) in varying diameter drill holes, both in horizontal and vertical positions. After the loader has been filled to capacity, it is pressurised by compressed air to the pre-determined discharge pressure, thus the rate of discharge can be varied to obtain the required density and charge rate.

Specifications	
Designed & Manufactured:	In accordance with AS1210
Design Pressure:	690 kPa
Test Pressure:	1035 kPa
Working Pressure	345 kPa
Design Temperature:	38˚C

1. What size/capacity is required?

Anfo Size	Volume	Actual Anfo Capacity	
45kg	68 L	54kg	= 045
100kg	146 L	117kg	= 100
200kg	268 L	214kg	= 200
250kg	336 L	269kg	= 250
250kg squat	263 L	210kg	= 250
500kg	836 L	669kg	= 500
500kg squat	631 L	504kg	= 500

Note: ANFO density = 800kg/m^3

2. Body material is mild steel:

MS - Mild Steel

3. If size/capacity = 250 OR 500:

Optional squat version is available to reduce overall height.

(Refer table for dimensions)

Standard = T		Squat - Q
045	250	250
100		500
200		

4. Is on-site servicing of internal sealing cone required?

If **Yes** = **F** - Flanged Opening on Head, Sealing Cone Replaceable

If **No** = **S** - Shouldered Opening Sealing Cone Permanent

Pressure Vessel Designation

PV	1	2	3	4
	5	6	7	8

EXAMPLE

PV045MSTFOFMD - Pressure Vessel, 45kg capacity, mild steel body, standard height, flanged opening, open filler cone, frame mounted, manifold and dual remote control.

5. Does unit require lid and trash screen to aid breaking of ANFO and prevention of foreign objects from entering unit when not in use?

If **Yes** = **L** - Lid and Trash Screen

If **No** = **O** - Open Filler Cone (Standard)

6. Is unit required to be self standing or mounted?

F = Self Standing (frame)

All vessels come with frames to aid in shipping, Customer to remove if not required.

7. Do you require standard Minsup™ air system to be fitted?

M = Yes (go to question 8) (manifold and valves to be fitted)

X = No (end of quote) (no manifold)

8. What method of operation is required?

M = Manual Valve Control.

S = Actuated Loading Valve Control (single remote)

D = Actuated Loading & Venturi Valve Control (dual remote)
(this option allows blowing facility for cleaning of holes).

X = No Controls (only when no manifold specified in question 7).

Additional Notes:_____

ANFO Loader Example Base Models - Pressure

minsup

Standard with Shouldered Head



Squat with Shouldered Head



Standard with Flanged Head



Squat with Flanged Head



Flanged head allows servicing of internal sealing cone.

All vessels come with 2" shouldered outlet.
Height and Diameter dimension given includes frame and filler cone.

For pressure vessels in other sizes or configurations contact your nearest Dixon™ representative.

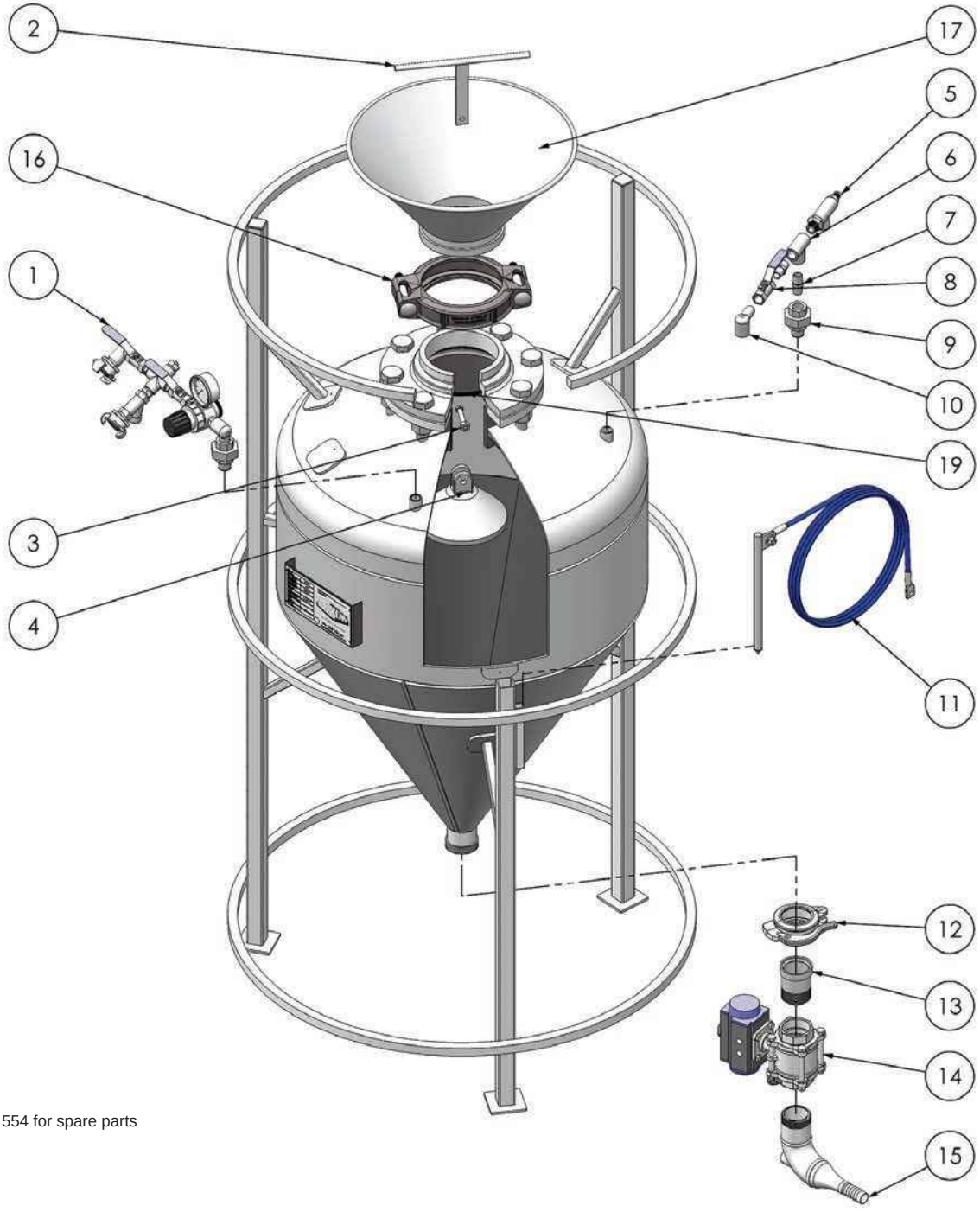
All 500kg pressure vessels come with a square frame - all others have a round frame (cylindrical).

Size (kg)	Shouldered Head		Flanged Head	
	Diameter (mm)	H (mm)	Diameter (mm)	H (mm)
Standard				
45kg	700	1440	-	-
100kg	880	1760	-	-
200kg	960	1805	960	1805
250kg	960	1955	960	1955
Squat				
250kg	1217	1720	1217	1720
500kg	1267	2160	1267	2160

AG02

ANFO Loader Spare Parts

minsup



Refer to page 554 for spare parts

Exploded View - Flanged Configuration with Remote Take-Off

Product specification may be subject to change without prior notification.

ANFO Loaders - Purchasers Responsibilities

Dixon Asia Pacific Pty Ltd manufactures pressure vessels, namely Anfo Loaders to AS1210 - 1989 - Class 3.

To comply with AS1210 SAA Unfired Pressure Vessels Code, the vessel must not be used for the transport of material under pressure.

Purchasers of anfo loaders are supplied with a copy of the Manufacturers Data Report - Pressure Vessel at point of delivery.

Purchasers are advised that the Anfo Loader (Pressure Vessel) manufactured under AS1200 is subject to Occupational Health, Safety and Welfare Regulations, 1995 (page 5 section 3.2.24(1)(a)). An employer must ensure that pressure equipment, other than a gas cylinder that is covered by AS1200 SAA Boiler Code and that is in USE, is inspected or tested in accordance with AS3788 .

Purchasers should refer to Australian Standards AS3788 - Pressure Equipment In-Service Inspection, Section 3: Inspection Personnel and Administration; **Section 4:** Pressure Equipment Inspection.

ANFO Loader Spare Parts

minsup

Preset to 690 kPa
Fitted with Anti-Tamper Seal









c/w Trash Screen & Lid



Standard

Refer to page 553 for Spare Parts Reference Guide

Ref No.	Part No.	Description	Price $ (ea)
1	08/040/01/082R	Manifold Assembly to suit remote operation	3995.28
1	08/040/01/082	Manifold Assembly to suit manual operation	3324.40
2	08/040/01/003	Handle	56.78
3	05/040/01/010	Bolt ⅜" x 2½" BSW	2.29
3	05/062/100/080	Nut ⅜" BSW	2.03
4	08/040/06/005	Sealing Cone 6"	247.71
5	05/040/01/012SS	Relief Valve ½" S/S Set to 690 kPa	2230.49
6	SS16T015	Tee ½" BSP S/S Female	10.28
7	SS16HN015	Nipple ½" BSP S/S	6.14
8	SS1P012	½" 1 Piece S/S Ball Valve	24.23
9	SS16FU015	Union ½" BSP F/F S/S	17.12
10	SS16ELMF015	Elbow ½" BSP M/F S/S	8.60
11	08/040/01/081	Earth Lead Assembly	147.14
12	08/048/19/000G	Clamp 2" Q/R Shouldered	55.59
13	08/048/10/000B	2" Shouldered x BSP Adaptor	74.05
14	SS3P050-ACT-DA	2" 3 Piece S/S Ball Valve with Pneumatic Actuator	997.10
15	08/040/01/058C	Take-off Bend Assembly	380.05
16	08/048/20/005	Clamp 6" Shouldered	93.31
17	08/040/06/002	Filler Cone Assembly	325.47
18	08/040/06/402	Filler Cone Assembly c/w Trash Screen & Lid	2053.53
19	05/006/08/000	O-ring	32.35

Price Group: SD
AG04



Part No.	Description	Price $ (ea)
05/040/01/015SS	Gauge Pressure ¼" S/S	282.01

Price Group: SD
AG04



Part No.	Description	Price $ (ea)
05/040/01/014SS	Regulator ½" S/S 0 - 1000 kPa	2220.91

Price Group: SD
AG04



Part No.	Description	Price $ (ea)
SYS-015	Strainer Y ½" BSP	43.11

Price Group: SD
AG04

P

Minsup™ Remote Control Sub Assemblies Spare Parts

minsup

Part No.	Description	Price $ (ea)
SS3P050-ACT-DA	2" 3 Piece S/S Ball Valve with Pneumatic Actuator	997.10
08/048/10/000B	2" Shouldered x BSP Adaptor (to join the ball valve to the vessel)	74.05

Price Group: SD

VS02
AE01





80/048/10/000B

Feature:	Stainless steel pilot valve minimises chance of forming tetra-ammine copper nitrate.

Part No.	Description	Price $ (ea)
08/040/08/087	Pilot Valve Assembly	2971.10

Price Group: SD

AG03

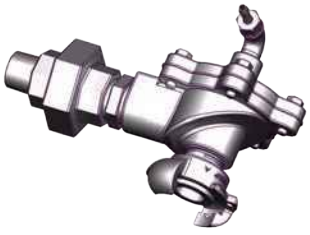


Feature:	Diaphragm valve controls air to the venturi inlet.

Part No.	Description	Price $ (ea)
08/040/08/089	Diaphragm Valve Assembly	598.86

Price Group: SD

AG06



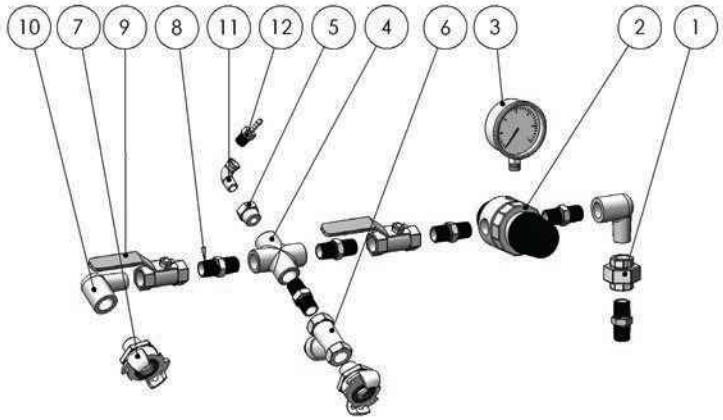


For Anfo Tube refer to page 46.

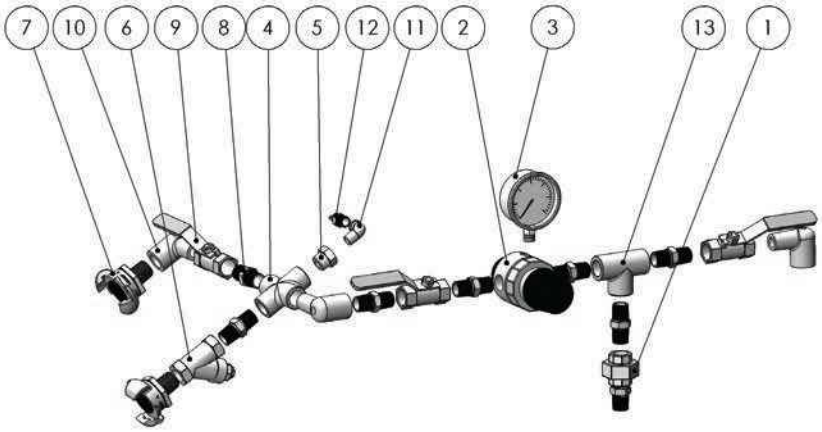
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ANFO Loader Spare Parts Sub Assemblies

minsup



100Kg, 200Kg, 250Kg AND 500Kg CONFIGURATIONS (REMOTE CONTROL VERSION)



45Kg CONFIGURATION (REMOTE CONTROL VERSION)

MANIFOLD ASSEMBLY

Minsup™ manifold assemblies are constructed from Stainless Steel components ideally suitable in preventing the formation of tetra-ammine copper nitrate (TACN)

Part No.	Description	Price $ (ea)
08/040/01/082R	Manifold Assembly to suit remote op.	3995.28
08/040/01/082	Manifold Assembly. to suit manual op.	3324.40

Price Group: SD

Ref No.	Part No.	Description	Price $ (ea)
1	SS16UMF015	Union ½" BSP M/F S/S	30.22
2	05/040/01/014SS	Regulator ½" BSP S/S	2220.91
3	05/040/01/015SS	Gauge ¼" BSP 0-1000 PSI	282.01
4	SS16CR015	Cross " BSP S/S	35.31
5	SS16B1508	Red. Bush ½" x ¼" BSP S/S	5.85
6	08/001/09/000	½" 'A' Type Male BSP	13.38
7	SYS-015	Strainer Y ½" BSP S/S	43.11
8	SS16HN015	Nipple ½" BSP S/S	6.14
9	SS1P012	15mm 1 Piece S/S Ball Valve	24.23
10	SS16ELMF015	Elbow ½" BSP M/F S/S	8.60
11[1]	SS16ELMF008	Elbow ¼" BSP M/F S/S	4.91
12[1]	08/040/08/082SS	Tail Hose 3/16" x ¼" BSP S/S	9.56
13	SS16T015	Tee ½" BSP S/S	10.28
[2]	SS16XP008	Hex Plug ¼" BSP S/S	1.97

[1] used in 08/040/01/082R only

[2] used in 08/040/01/082 only in replacement of 11 & 12

Price Group: SD

AG04

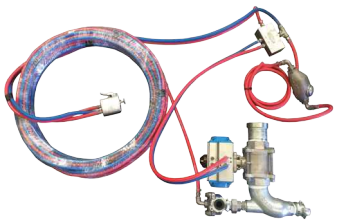
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ANFO Loader Single Remote Control Kit

Components:	• Control Valve Single MkII • Lubricator Assembly • Pilot Valve Assembly • Actuated Valve Assembly • Control Hoses (10m)

Part No.	Description	Price $ (ea)
08/040/08/128	2" Shouldered Outlet	6413.78

Price Group: SD
AG06
AG03
AG06



ANFO Loader Dual Remote Control Kit

Components:	• Control Valve Dual MkII • Lubricator Assembly • Pilot Valve Assembly • Actuated Valve Assembly • Diaphragm Valve • Control Hoses (10m)

Part No.	Description	Price $ (ea)
08/040/08/129	2" Shouldered Outlet	8300.19

Remotes are compatible with all vessels.

Price Group: SD
AG06
AG03



ANFO Loader Remote Control Sub Assemblies

Application:	For the operation of Minsup™ Anfo Loaders equipped to be fitted with single or dual control valve. **Single Control Valve.** Used to operate actuated loading valve. **Dual Control Valve.** Used to operate actuated loading valve and diaphragm operated venturi.
Material:	Stainless steel with nitrile O ring.and steel spring.
Temperature:	80°C
Features:	Operator comfort, single hand operation. Suitable for contact with ANFO.

Part No.	Description	Price $ (ea)
SRC	Single Control Valve	1924.14
DRC	Dual Control Valve	3853.65

Price Group: SD
AG03



Investment cast aluminium oil lubricator assembly provides lubrication to all moving parts.

Part No.	Description	Price $ (ea)
08/040/08/127	Oil Lubricator Assembly	571.64

Price Group: SD
AG06



Part No.	Description	Price $ (ea)
05/040/08/134AL	Aluminium Foot Control Valve	1730.85
B53004GY	Foot Control Valve - Dual Spring Control	2733.92

Price Group: SD
AG03



Aluminum



Dual Spring Control

P

Tank Truck & Rack Equipment Index



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Q

Ball Nozzles for Bulk Delivery

Application:	3 PSI check valve is included to prevent back flow, 5 PSI is optional.
Design:	Rugged construction for rapid fuel oil transfer/delivery. Heavy duty roller ball swivel with low temperature seals freely rotates without leaking.
Material:	Anodized Aluminium
Flow Rate:	High flow

Female Inlet Size (inch)	Outlet Type	Part No.	Price $
1¼ NPT	swivel quick fill nut	BL062	1.70
1½ NPT	swivel quick fill nut	BL064	1329.40
1¼ NPT	1¼" spout	BL066	1326.00
1½ NPT	1¼" spout	BL068	1230.60
1¼ NPT	1½" spout	BL072	1186.10
1¼ NPT	1¼" female NPT	BL066NS	851.84
1½ NPT	1¼" female NPT	BL068NS	1227.10
1½ NPT	1½" female NPT	BL072NS	852.55
2 NPT	2" spout	BL920	1213.20

Price Group: SD
AS02



Female Inlet Size (inch)	Replacement For	Part No.	Price $
Replacement Spouts			
1¼	BL066, BL068	1143A	45.96
1½	BL072, BL919	1125A	50.97
2	BL920	391137	79.45

Price Group: SD
AS02



With Spout

Description	Part No.	Price $
Repair Kits for Ball Nozzles (BL066, BL068, BL072, BL919)		
inlet swivel seal and wear kit	SWMF-RK2	43.31
complete inlet swivel rebuild kit	SWMF-RK3	111.39
1½" FNPT replacement inlet swivel	SWMF-RK4	304.39
1¼" FNPT replacement inlet swivel	SWMF-RK5	307.34
1½" BSPP replacement inlet swivel	SWMF-RK6	324.57
Repair Kits for Super Ball Nozzle (BL920)		
ball valve shaft seal kit	BL-RK4	89.20
complete ball nozzle seal kit	BL-RK10	1505.30
optional check valve 5 PSI spring kit	BL-RK11	56.10
standard check valve 3 PSI cartridge kit	BL-RK12	20.90

Price Group: SD
AS02



NOTE: Some fuel additives are not compatible with certain materials.
Please contact Dixon™ for fuel compatibilities.

Q

Automatic Shut-Off Nozzles



114D

Application:	For card lock and truck refuelling stations
Design:	Venturi type auto shut-off. Detachable trigger ratchet
Material:	Aluminium construction with bronze trigger
Flow Rate:	80 gpm flow (requires min 7.5 gpm for auto shut-off)

Female Inlet Size (inch)	Spout Outlet Size (inch)	Part No.	Price $
Pressure Nozzle With Spout			
1½ NPT	1⅜	1124D	1296.77
1½ BSPT	1½	1124DBSPT	1296.77

Price Group: BY
AS02

Standard Utility Nozzles



900S

Application:	For use with 12 volt pumps & gravity flow fittings. For economy fuel dispensing, including construction, farm & small truck utility tanks.
Design:	Choice of spouts.
Material:	Diecast metal body
Working Pressure:	25 PSI
Approvals:	UL

Female Inlet Size (inch)	Spout Outlet Size (inch)	Part No.	Price $
Aluminium			
1 NPT	1 outlet	900*	184.95
1 NPT	1 straight	900S	189.04
1 NPT	1 bent	900B	191.38
1 NPT	¾ straight	900W34S	189.76
1 NPT	¾ bent	900W34B	189.23
¾ NPT	¾ straight	900S34	213.41
¾ NPT	¾ bent	900B34	212.89



900B

Price Group: SD
AS02



875-5

Description	Part No.	Price $
Replacement Parts		
¾" replacement straight spout	234-80-4	19.10
¾" replacement bent spout	234-80-5	17.20
1" replacement straight spout	5875-4	POR
1" replacement bent spout	875-5	14.09
trigger	900TK	8.60
plunger and valve assemblies, cap, O-ring	900SK	25.60

* Nozzle body only (without spout)
Note: ¾" nozzle inlet uses 1" x ¾" reducer bushing, supplied.

Price Group: SD
AS02

NOTE: Some fuel additives are not compatible with certain materials.
Please contact Dixon™ for fuel compatibilities.

Pressure Nozzles for Bulk Delivery

Application:	Manual operation (non-auto) for high pressure
Design:	Easy opening dash pot design with shockless closing. Detachable trigger ratchet, packing gland and seal
Material:	Bronze trigger with aluminium body and spout
Flow Rate:	Up to 80 gpm

Female Inlet Size (inch)	Spout Outlet Size (inch)	Part No.	Price $
With Spout			
1¼ NPT	1¼	114D	852.82
1½ NPT	1½	112D	972.40
1¼ BSPT	1¼	114DBSPT	910.33
1½ BSPT	1½	112DBSPT	962.52

Price Group: BY

AS02



114D

Description	Part No.	Price $
replacement spout for 114D	1143A	45.96
replacement spout for 112D	1125A	50.97
replacement spout for 114DBSPT	1143A-BSPT	53.58
replacement spout for 112DBSPT	1125A-BSPT	58.36
seal kit to suit 114D nozzles	114DSK	306.40
seal kit to suit 112D nozzle	112DSK	323.55
seal kit to suit 112DBSPT nozzle	112DBSPTSK	363.39
replacement trigger kit to suit 114D & 112D series nozzles	114/2D-TK	78.71

Price Group: BY

AS02

Overwing Aircraft Nozzles

Application:	Manual operation (non-automatic) for high pressures
Design:	Easy opening dash pot design with shockless closing. Detachable trigger ratchet, packing gland and seal. Aluminium spout has cap with spring cord and a fine mesh stainless steel screen filter. Screw attachment for grounding cable (cable not supplied)
Material:	Aluminium body, bronze trigger with plastic guard pad to protect wing
Flow Rate:	Up to 80 gpm

Female Inlet Size (inch)	Spout Outlet Size (inch)	Part No.	Price $
With Spout			
1¼ NPT	1	114DAVR	2753.12
1¼ NPT	1¼	114D-AV	1616.14
1½ NPT	1¼	114D-AV-06ASM	1841.50
1½ BSPT	1¼	114DAVBSPT	1229.17



114-AV-06ASM

Replacement Parts		
Description	**Part No.**	**Price $**
trigger, bushing, pin and cotter pin	114/2D-TK	78.71
main & secondary poppet assemblies, cap O-ring, valve stem assembly	114DAV-SK	284.10
1" spout assembly	114DAL-AV-25	221.60
1¼" spout assembly	114DAL-AV-16	178.15

Price Group: BY

AS02

Fuel Nozzles

Application:	Gravity feed fuel delivery
Material:	Aluminium body, FKM seal
Pressure:	Gravity feed only

Inlet Size (inch)	Spout Size (inch)	Description	Part No.	Price $
1"BSP	¾	Trigger Nozzle for UNLEADED fuel	HN25U	100.93
1"BSP	1	Trigger Nozzle for LEADED fuel	HN25	140.28

Price Group: BY

FP08



HN25U

NOTE: Some fuel additives are not compatible with certain materials. Please contact Dixon™ for fuel compatibilities.

Q

Hose Swivels



Application:	For use with petroleum & home heating oil hose. Prevents twisting or kinking.
Design:	Male and female threads to suit 114 and 112 series nozzles. Integral check valve to retain hose pressure and prevent hose drainage.
Material:	Bronze

Male Size (inch)	Female Size (inch)	Part No.	Price $
Check Valve			
1¼ NPT	1¼ NPT	1280	419.88
1¼ BSP	1¼ BSP	1280-BSPT	482.30
1½ BSPT	1½ BSPT	1580U-BSPT	488.68

Price Group: BY

AS02

Heavy Duty Hose Swivels



Application:	For use with petroleum & home heating oil hose. Prevents twisting or kinking.
Design:	Heavy duty internal thrust bearing & anti-friction seal, Can be lubricated without disassembly by using the optional grease fitting kit (SWMF-RK1)
Material:	Aluminium

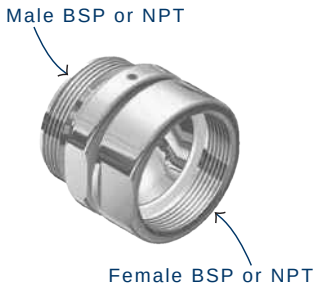
Male Size (inch)	Female Size (inch)	Part No.	Price $
1¼ NPT	1¼ NPT	SWMF125	468.23
1½ NPT	1½ NPT	SWMF150	533.99
2 NPT	2 NPT	SWMF200	522.89

Price Group: BY

AS02

Hose Swivels

Design:	Swivel function - allows the hose to relax to it's natural rest position while allowing freedom of movement without adding torque stress at the point of connnection (torque stress is the largest single cause of composite, PTFE and stainless steel hose failure). Simple design, low maintenance - each unit consists of two body halves, ball bearings and a washer.
Seal:	FKM seals are standard, Chemraz® and Kalrez® are optional
Working Pressure:	150 PSI
Max Temperature:	149°C



Male / Female BSP Thread				
Size (inch)	Stainless Steel		Aluminium	
	Part No.	Price $	Part No.	Price $
¾	HS075SSA	1264.91	HS075ALA	607.67
1	HS100SSA	1264.91	HS100ALA	580.43
1½	HS150SSA	1319.67	HS150ALA	684.57
2	HS200SSA	1319.67	HS200ALA	684.60
3	HS300SSA	1998.56	HS300ALA	1615.40
4	HS400SSA	5387.98	HS400ALA	3121.07

Male / Female NPT				
Size (inch)	Stainless Steel		Aluminium	
	Part No.	Price $	Part No.	Price $
¾	HS075SS	1264.91	HS075AL	607.67
1	HS100SS	1264.91	HS100AL	580.43
1½	HS150SS	1319.67	HS150AL	684.57
2	HS200SS	1309.70	HS200AL	684.60
3	HS300SS	2004.36	HS300AL	1615.40
4	HS400SS	5387.98	HS400AL	3121.07

Available in sizes up to 10" with various threaded and flanged connections available.

Price Group: BY

AS01

Fuel Master™ Diesel Nozzle

Application:	Provides the high flow capacity required by many truck stops & terminal operations. Micro-touch valve provides smooth operation & exceptional flow control.
Design:	Features lightweight Tenzalloy aluminium casting, super tough nylon hose guard & hold open clip. Easy to change lockout style spout assembly
Colour:	Green scuff guard



Inlet Size (inch)	Spout Size (inch)	Weight (kg)	Approx Flow Rate @ 20 PSI (GPM)	Part No.	Price $
Non Underwriters Listed nozzle					
with trigger hold-open clip					
1 NPT	1 3/16	1.6	35	DFN100HF	443.85
1 NPT	1 3/16	1.6	45	DFN100ST	692.15
Underwriters Listed nozzle					
with trigger hold-open clip with 'no pressure, no flow' safety valve					
1 NPT	1 3/16	1.8	35	DFN100HF-NPNF	528.20
1 NPT	1 3/16	1.8	45	DFN100SF-NPNF	692.20
without trigger hold-open clip					
1 NPT	1 3/16	1.8	35	DFN100HF-NC	452.30
1 NPT	1 3/16	1.8	45	DFN100SF-NC	621.10

Price Group: BY

AS02

Q

Big Mouth™ Diesel Nozzle



Application:	Roto-matic latch pin provides positive auto shut-off.
Design:	Micro-touch valve allows precise flow control. Pure PTFE packing eliminates stem leaks. Super tough nylon hold-open clip & hand guard bend, but won't break. Snap-on handle cover makes changing scuff guards easy
Colour:	Yellow scuff guard

Inlet Size (inch)	Spout Size (inch)	Weight (kg)	Approx Flow Rate @ 20 PSI (GPM)	Part No.	Price $
Non Underwriters Listed nozzle					
with trigger hold-open clip					
1 NPT	1⅛	1.4	20	DFN100	321.07
Underwriters Listed nozzle					
with trigger hold-open clip with 'no pressure, no flow' safety valve					
1 NPT	1⅛	1.7	20	DFN100-NPNF	426.70
without trigger hold-open clip					
1 NPT	1⅛	1.7	20	DFN100-NC	350.90

Price Group: BY

AS02

Farm & Consumer Nozzles

Application:	Automatic fuel nozzles designed for use with small 12 volt & AC utility pumps as well as large farm & consumer pumps
Design:	Heavy duty, stronger & more secure hook makes it easy to hang the nozzle on the pump.
Colour:	Black scuff guard on gasoline nozzle, green scuff guard on diesel nozzle



Gasoline Nozzle



Diesel Nozzle

Inlet Size (inch)	Spout Size (inch)	Weight (kg)	Approx Flow Rate @ 20 PSI (GPM)	Part No.	Price $
Non Underwriters Listed nozzle					
with trigger hold-open clip					
¾ NPT	13⁄16	1.1	18	DN7UOBF	189.74
¾ NPT	15⁄16	1.1	23	DN7LOBF	190.05
1 NPT	1⅛	1.7	27	DFN100F [1]	379.30
with trigger hold-open clip with 'no pressure, no flow' safety valve					
¾ NPT	13⁄16	1.1	18	DN7UOBF-NPNF	339.50
¾ NPT	15⁄16	1.1	23	DN7LOBF-NPNF	339.50
1 NPT	1⅛	1.7	27	DFN100F-NPNF	455.20
without trigger hold-open clip					
¾ NPT	13⁄16	1.1	18	DN7UOBF-NC	263.60
¾ NPT	15⁄16	1.1	23	DN7LOBF-NC	263.60
1 NPT	1⅛	1.7	27	DFN100F-NC	379.30

[1] Hand-guard and rear back clip: super tough nylon

Price Group: BY

AS02

DEF Automatic Shutoff Nozzle (ADBLUE)



Application:	Automatic shutoff nozzle designed for diesel exhaust fluid.
Features:	• Aluminum body double coated inside and out with PTFE baked on at 500°F • Stainless steel spout • Maximum operating pressure: 50 PSI • Wetted parts: stainless, acetal, PTFE • FKM-A seals

Inlet Size (inch)	Spout Size (inch)	Weight (kg)	Approx Flow Rate @ 20 PSI (GPM)	Part No.	Price $
¾ BSPP	13⁄16	1.1	14	DEFN075	999.65

Price Group: BY

AS02

High Flow Fueler 100 Nozzle

Application:	For fueling trucks, buses, off-road equipment and fuel oil delivery. These nozzles are not to be used with gravity flow tanks.
Features:	• machined grooves in the spout are designed to hold nozzle more securely in the fill pipe • high flow, heavy duty automatic nozzle



Inlet Size (inch)	Spout Size (inch)	Weight (kg)	Approx Flow Rate @ 20 PSI (GPM)	Part No.	Price $
1¼	1⅜	1.1	75	DNOG5-NL	1659.30
1¼	1⅜	0.56	75	DNOG5	1602.40
1½	1⅜	3.13	75	DNOG6	1564.50

Price Group: BY
AS02

Fuel Nozzle Cross Reference

Dixon™	M Carder	OPW	Emco	Husky	Catlow
DN7UOBF	N7UOBF	11AF-40FS	A2501F	XSF-33704	NENLF
DN7LOBF	N7LOBF	11APF-40FS	A2501LF	-	NELF
DFN100	N3-BigMouth	7H	A6000	1+8-173310	MAX1
DFN100HF	N4-Fuelmaster	N/A	N/A	1HS.026810	MAC-1AH

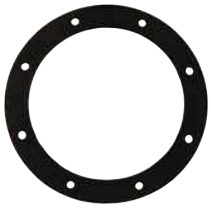
Tank Truck Flange Gaskets (TTMA and Others)

Size (inch)	OD (inch)	ID (inch)	THK (inch)	Material	Part No.	Price $
3	5-5/8	3-1/2	1/8	Cork / Buna	300GTTFCB	5.65
	5-5/8	3-1/2	1/16	PTFE envelope with Klinger filler	300GTTFTK	30.90
	5-5/8	3-1/2	1/8	Klingersil® C-4300	300GTTFK	9.70
	5-29/32	3-1/2	3/32	PTFE with fiber core	40321TF	60.29
	7-1/4"	5	5/32	PTFE with soft fiber core	40364TF	109.10
	7-1/4"	5	1/8	Baylast™	40364BL	20.30
	5-5/8"	3-5/8	1/8	Baylast™	300GTTFBL	42.94
4	6-5/8	4-9/16	1/8	Cork / Buna	400GTTFCB	5.94
	6-5/8	4-9/16	1/16	PTFE envelope with Klinger filler	400GTTFTK	40.30
	6-5/8	4-9/16	1/8	Klingersil® C-4401	400GTTFK	16.00
	6-7/8	4-9/16	3/32	PTFE with fiber core	40322TF	61.65
	8-3/8	5-7/8	5/32	PTFE with soft fiber core	40323TF	150.80
	8-1/4	5-7/8	1/8	Baylast™	40323BL	22.20
	6-5/8	4-5/8	1/8	Baylast™	400GTTFBL	43.67

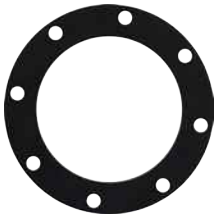
Price Group: BY
AS02



40417BL
TTMA Round Flange Gasket



40417BL
Emergency Valve Tank Flange Gasket



400GTTFBL
4" TTMA Flange Gasket



40418BL
Emergency Valve Outlet Flange Gasket

Description	Material	Part No.	Price $
Emergency (Foot) valve tank flange gasket to suit DBFV210	Baylast™	40417BL	48.64
Emergency (Foot) valve outlet flange gasket to suit DBFV210	Baylast™	40418BL	32.79

* Both 40417BL & 40418BL have been designed to interchange with other manufacturers product. Please consult Dixon™ for cross reference to other brands.

Dixon™ has completed several years of testing and engineering evaluation to ensure our products are compatible with all modern motor fuels in use today.

Dixon™ uses a proprietary seal compound that we refer to by the trade name Baylast™. Baylast™ has been tested both in the laboratory and in the field with excellent results. Baylast™ was developed so we could offer a single seal material compatible with the wide range of alternative fuels used today.

Many Dixon Bayco products have been using Baylast™ seals to ensure compatibility with alternate fuels including ethanol, ethanol blends, biodiesel blends, low sulphur diesels and standard refined fuels.

Dixon Bayco seals are fully compliant with current Safe Load Pass (SLP) regulations currently in place in the Australian marketplace.

Please contact Dixon™ to discuss your seal requirements or for further technical support.

4" API Valves



5204NG



5204A



5204SFI



5204LNG



5204K2



5204K7

Application:	API Valves are used for bottom loading and unloading of petroleum tankers. Valve nose shape and opening comply with American Petroleum Institute standard (API RP-1004) enabling Dixon™'s API valves to interchange with competitor items made to the same specification. Three styles are available; a load model without handle, a load/unload model with a pull up to operate handle to allow manual opening and a load/unload model with a pull down to operate handle to allow manual opening.
Design:	Load/unload versions feature an ergonomically curved handle that opens with a short 62" stroke. Available with a fixed or removable handle. Maintenance is simplified as it can be completely rebuilt without removing valve from the tank. ALH (Anodised Aluminium Hard Coat) nose ring can be rotated to provide fresh cam service. Ergonomic handle.
Seal:	Chemical resistant crank seals & poppet seal (PTFE seals optional)
Service:	5204 Series approved for use in the following service: gasoline, diesel, E10 10% ethanol, E85 85% ethanol E100 100% ethanol, B15 15% bio-diesel/diesel, B20 20% bio-diesel/diesel. 5204 Series tested performance to -40°F with 100% ethanol, B15 15% bio-diesel & B20 20% bio-diesel. 5204 Series approved for use in the following service: B100 100% bio diesel
Material:	Aluminium, anodised hard coat aluminium

Part No.	Description	Price $
5204NG	4" API adaptor, without sight glass. Pull down to open handle version.	1094.85
5204NGA	4" API adaptor, without sight glass. Pull up to open handle version.	948.63
5204TNG	4" API Adaptor, without sightglass, pull down to open handle PTFE seals for chemical applications	964.22
5204	4" API adaptor, sight glass. Pull down to open handle version.	1029.39
5204A	4" API adaptor, with sight glass. Pull up to open handle version.	1028.46
5204TNGA	4" API Adaptor, without sightglass, pull up to open handle PTFE seals for chemical applications	1446.17
5204SFI	4" API adaptor with inline full body sight glass. Pull down to open	1054.24
5204LNG	4" API adaptor, without sightglass, no handle	671.54
5204L	4" API adaptor, sightglass, no handle	743.79

Price Group: BY
AS02

Spare Parts

Part No.	Description	Price $
5204K1	Poppet O-ring Baylast™ to suit 5204 series API valves	51.80
5204K2	Rebuild kit to suit 5204 series API valves	293.33
5204K3	Replacement nose cone c/w O-ring and fasteners	196.49
5204K6	PTFE encapsulated seal kit to suit 5204 series API valves	216.22
5204K7	Replacement handle kit, pull down version only	100.89
5204K15	Replacement handle kit, pull up version (Australian version)	83.04
5204K8	Sight glass replacement kit c/w O-ring and fasteners	74.08
5204K9	Sight glass blank plate (to convert units with sight glass to non sight glass)	63.71

Price Group: BY
AS02

4” API Dust Caps

Part No.	Description	Price $
5205	Aluminium API cap with flat seal & nylon quick release lever	160.86
5000-24	Aluminium API cap with O-ring gasket	213.53
5000-25	Nylon API cap with flat gasket, pad lockable arm	105.14
5000-24L	Aluminum API cap lockable with O-ring seal	225.56

Price Group: BY
AS02


5000-24


5000-25


5000-24L


5205

Spare Parts		
Part No.	**Description**	**Price $**
4500RK	Replacement O-ring, cam arms and pins to suit 5000-24	42.92
5000-25RK1	Replacement flat seal to suit 5000-25 nylon API cap	8.34
5000-25RK2	Replacement cam arm sub assembly to suit 5000-25 nylon API cap	30.15
5205-RK1	Replacement flat seal to suit 5205 API dust cap	16.86
5205-RK2	Replacement cam arm and pin to suit 5205 API dust cap	21.20
5205-RK3	Replacement roller and pin to suit 5205 API dust cap	17.10
5205-RK4	Replacement chain and S hook	14.50
5000-24LRK	Replacement O-ring, lockable cam arms and pins to suit 5000-24L lockable API dust cap	101.52

Price Group: BY
AS02

Dust Caps and Plugs with Pull Handles for Hose Tubes

Features:	• Pull handles make it easier for tanker operators to remove delivery hoses from the storage tubes; the operator simply grabs the handle and easily pulls the hose out of the storage tube. • Rugged aluminum constructed parts protect the hose coupling and adapter from damage during transportation and the removal of hoses from the hose storage tube. • Prevents possible environmental issues due to leaking residue left in an open hose.
Materials:	Aluminum body, brass cam arms (dust caps), Buna seals

Part No.	Description	Price $
300-DC-ALPH	3" Aluminum dust cap with pull handle	147.37
300-DP-ALPH	3" Aluminum dust plug with pull handle	85.67
400-DC-ALPH	4" Aluminum dust cap with pull handle	145.92
400-DP-ALPH	4" Aluminum dust plug with pull handle	74.55

Price Group: BY
AS02


400-DC-ALPH


400-DP-ALPH

Q

TTMA Series Flange Adaptors

Application:	For use with petroleum tankers. For welding to 3" & 4" TTMA aluminium pipe.
Material:	Aluminium
Features:	• Simply and easily converts threaded components to a standard TTMA flange configuration. • Solid cast lightweight aluminum design is more durable than welded fabrications. • Design improves flow through adapter. • Compact size reduces the overall space needed to install.
Design:	• All quality built for dependable long life service. • Standard 3" and 4" TTMA bolt pattern • Machined sealing surface for superior gasket sealing • 3" TTF3AL bolt circle diameter = 4.875" • 4" TTF4AL bolt circle diameter = 5.875" • For flange dimensions, diagrams and additional information please reference dixon-valve.com



TTMA Flange x Male NPT Adapters

TTMA Flange (inch)	Male NPT (inch)	Overall Length (inch)	Part No.	Price $
3	3	2½	TTF3AL-3MT	121.00
4	3	2½	TTF4AL-3MT	107.30
4	4	2½	TTF4AL-4MT	111.60

Price Group: BY
AS02



TTMA Flange x Extended Length Male NPT Adapters

TTMA Flange (inch)	Male NPT (inch)	Overall Length (inch)	Part No.	Price $
4	3	5½	TTF4AL-3EMT	177.10
	4	5½	TTF4AL-4EMT	144.70

Price Group: BY
AS02



TTMA Flange x Female NPT Adapters

TTMA Flange (inch)	Male NPT (inch)	Overall Length (inch)	Part No.	Price $
4	3	2½	TTF4AL-3FT	112.60
	4	2½	TTF4AL-4FT	111.40

Price Group: BY
AS02



TTMA Slip-on Socket Weld Flange (356T6 ALuminium)

TTMA Flange (inch)	Pipe Size (inch)	Part No.	Price $
4	4	TTF400SP	87.77

Price Group: BY
AS02



TTMA Slip-on Plate Flange

TTMA Flange (inch)	Pipe Size (inch)	Part No.	Price $
4	4	TTMA-64	60.00

Price Group: BY
AS02



TTMA Buttweld Flange

TTMA Flange (inch)	Pipe Size (inch)	Thickness (inch)	Part No.	Price $
3	4	⅜	TTF3AL	61.41

Price Group: BY
AS02

TTMA Flange Spacer with ½" Port

Size (inch)	Description	Part No.	Price $
4	flange spacer with ½ female NPT port	TTFS4AL-FP50	332.30

Price Group: BY
AS02



TTMA Flange Extensions

Application:	• Used on load arms to connect an API load coupler to a load arm.
Features:	• Adds a 6" space between the load arm and the tank truck. • Extension with groove provides a specified parting point to prevent excessive damage to the loading arm.

Size (inch)	Description	Part No.	Price $
4	TTMA flange extension	TETF4AL	166.68
4	TTMA flange extension with groove	TETFG4AL	184.00
4	TTMA flange extension with ½" female NPT port	TETF4ALFP50	320.20

Price Group: BY
AS02



TETF4AL



TETFG4AL

Cam & Groove Adaptor x TTMA Flange

Features:	• Aluminum flanges have a flat face, stainless flanges have a raised face. • 316 Stainless Steel flanges are produced as a welded fabrication. • Reference dixonvalve.com for flange drilling standards. • Pressure rating is based on the seal of the mating part, see ratings on page 82..

Size (inch)	Description	Part No.	Price $
3	356T6 Aluminum	300-ALT-AL	210.44
3	316 Stainless Steel	300-ALT-SS	499.90
3 x 4	356T6 Aluminum	3040ALTAL	149.60
4	356T6 Aluminum	400-ALT-AL	152.57
4	316 Stainless Steel	400-ALT-SS	669.00
6	356T6 Aluminum	600-ALT-AL	323.20

Price Group: BY
AS02



Cam & Groove Coupler x TTMA Flange

Features:	• Supplied standard with a Buna-N gasket, other gaskets available on pages 106-107. • Use Dixon® replacement handles only

Size (inch)	Description	Part No.	Price $
3	356T6 Aluminum	300-DLT-AL	190.20
3 x 4	356T6 Aluminum	3040DLTAL	248.60
4	356T6 Aluminum	400-DLT-AL	230.60
6	356T6 Aluminum	600-DLT-AL	556.80

Price Group: BY
AS02



Cam & Groove 22½" Adaptor x TTMA Flange

Design:	• Pressure rating is based on the seal of the mating part, see ratings on page 82.

Size (inch)	Description	Part No.	Price $
4	356T6 Aluminum	40022ALTAL	306.54

Price Group: BY
AS02



Cam & Groove 22½" Coupler x TTMA Flange

Design:	• Supplied standard with a Buna-N gasket, other gaskets available on pages 106-107. • Use Dixon® replacement handles only

Size (inch)	Description	Part No.	Price $
4	356T6 Aluminum	40022DLTAL	317.20

Price Group: BY
AS02



Q

Aluminum Ladder Step



Features:	• Contoured tube connections to aid welding • For 2" tubing, 13" wide • Serrated to provide a safe, sure grip, anti - slip tread • Allows easy safe ladder access to the top of the tanker

Part No.		Description	Price $
15S	i	Ladder Step	50.78

Price Group: BY
AS02

Side Seal Drop Elbows



Application:	For use with standard 4" side seal style fill collars only
Design:	Modular, easy repair, bolt-on construction Comes with acrylic sightglass, Buna seals and bronze arms. Choice of 3" or 4" inlets. Available with anti-spill sleeve (locking ring is available)

Part No.		Description	Price $
6000AS		Elbow only / no inlet	866.32
6000ASC		Elbow c/w 3" inlet	900.07
6000ASA		Elbow c/w 4" inlet	909.89
L2373		Lip seal to suit 6000 series	65.32
6200SGK		Sight glass kit with seals	130.26
6000SSHK	i	Replacement arms, springs, pins and retaining rings to suit 6000AS	133.39
LIQ04-A2310	i	Replacement arms	35.68

Price Group: BY
AS02

Elbow Inlets



Female



Male

Application:	For 6000, 6000AS, 6200, 6500 elbows Bolt-on easy to install/replace
Design:	Comes with stainless steel cap screws (4)
Material:	Aluminium

Part No.		Description	Price $
6000-14		3" female	193.60
6000-15		4" female	170.10
6000-16		3" male	104.25
6000-17		4" male	97.12

Price Group: BY
AS02

Product Indicator - 12 Sided



Application:	Product Indicators are used to display the name of the product in the corresponding tanker compartment
Features:	Supplied complete with the following labelling fitted: • Diesel - Avgas100 - ULP + E • Ethanol - Check Product - PULP 95 • Kerosene - Jet A1 - E-85 • ULP91 - Hi Octane - Blank • Supplementary labels also available for Opal91, VHROP 100+, Bio-Diesel, Prem. Diesel & Avgas 100LL All label colouring is in accordance to SLP recommendations
Design:	Mounts direct to 4" TTMA flange pattern as found on API Valves

Part No.		Description	Price $
DBPI120		Product indicator - 12 sided with labels	278.72

Price Group: BY
AS02

Q

Vapour Valves

Application:	4" TTMA flange With air interlock mount (use air interlock 5000AIV if required)
Design:	Bulb designed for maximum vapor flow (low resistance) for fast loading of tankers With angled acrylic sight glasses (2) and drain plug, allows viewing and drainage of fluids if in system
Material:	Quality cast aluminium construction



Part No.	Price $
VR4000	657.53

Price Group: BY
AS02

Vapour Return Valves

Application:	Allows easy seal replacement while still on tanker
Design:	4" Adaptor with poppet valve, 4" TTMA connection
Material:	Heavy duty cast aluminium body



Part No.	Price $
VR4100	442.66

Price Group: BY
AS02

Vapour Recovery Vent - Sequential Air Operated

Application:	Dixon Bayco™ Vapour Recovery Vents are designed for use on road tankers specifically set up for bottom loading applications to allow adequate venting during loading or unloading.
Features:	• May be installed to operate in sequence with other pneumatically controlled devices such as emergency valves and guard bar interlocks, or open independently by simply plugging the air out port. • Inward opening poppet ensures compartment pressure is maintained and product retention during transit.
Design:	Designed to interchange with other brands commonly found in the Australian market. Mounts direct to manholes or tanker walkways.
Material:	Aluminium construction, Acetal Guides, S/S Piston & fasteners, Baylast™ seals and cork/buna gasket
Fuel Compatibility	Biofuel vapour compatible up to E100 (100% Ethanol) and B100 (100% Biodiesel. For detailed fuel compatibility please consult your nearest Dixon™ offices.



Part No.	Description	Price $
DBVR6410	Vapour Vent, sequential operation c/w gasket and fasteners	1024.02
DBVR6410-12	Cork Buna flange gasket to suit DBVR6410	13.50
DBVH090	Vapour Vent Hose 90 x 101mm x 1.0 metre length	199.65
DBVH090060	Vapour Vent Hose 90 x 101mm x 60 metres length	9672.19
HTM450L	Hi Torque Clamp, SS, Worm Drive to suit Vent Hose, 10 clamps per box	84.99
SS104	Super Clamp, SS, T Bolt Style to suit Vent Hose, sold individually with optional box quantity of 25	29.67

Price Group: BY
AS02

Air Interlock Valves


5000AIHD


5000AIR


5000AIV

Part No.	Description	Price $
5000AIHD	Heavy duty pneumatic interlock, Baylast™ seals	307.72
5000AIR	Roller ball plunger pneumatic interlock, ideal for use on cabinet doors, Baylast™ seals	251.24
5000AIS	1" button plunger pneumatic / electronic interlock, ideal for connecting to lights or the overfill detection system, Baylast™ seals	608.88
5000AIV	Paddle plunger pneumatic interlock, for use on VR4000 vapour valve, Baylast™ seals	314.74

Price Group: BY
AS02

4" Vapour Caps



Application:	Aluminium or ultra lightweight nylon versions available
Design:	Lockable push/pull cap for vapour valves
Colour:	Orange for visibility

Part No.	Description	Price $
VR4050AL	4" Aluminium cap	199.38

Price Group: BY
AS02



Design:	Centered T handle for one handed ease of use and a solid locking mechanism Strong and lightweight Built-in locking feature Manufactured with a hole for a chain / lanyard
Material:	Corrosion resistant materials
Colour:	Safety orange for vapour service

Part No.	Description	Price $
VR4050PL	4" Ultra lightweight nylon cap	143.56

Price Group: BY
AS02

Gravity Drop Adaptors

Application:	The gravity drop adaptor features an industry standard API female connection designed to couple directly to the standard API valve leaving either a 3" or 4" male camlock adaptor to be connected to the petroleum unloading hose.
Design:	Standard one piece body
Material:	Cast Aluminium body, bronze cam arms with stainless steel pins & finger rings



Without Sight Glass



With Sight Glass

Part No.	Description	Price $
4530	3" aluminium adaptor w/o sight glass, Baylast™ O-ring seals	356.78
4530SGV	3" aluminium adaptor with sight glass, flat seal	649.01
4540	4" aluminium adaptor w/o sight glass, Baylast™ O-ring seals	422.39
4540F	4" aluminum adaptor with Buna-N O-ring seal	323.10
4540SGV	4" aluminium adaptor with sight glass, flat seal	763.95

Price Group: BY
AS02

Spare Parts

Part No.	Description	Price $
4500RK	Replacement O-ring, cam arms and pins to suit 4530 and 4540	42.92
4500RK-V	Replacement cam arms, pins and FKM O-ring seal (optional)	78.42
5205-RK4	Replacement security chain and S hook to suit all gravity drop adapters	14.50
4540SG-RK1	Sight glass repair kit includes sight glass, Baylast™ seals and retaining ring to suit 4530SGV and 4540SGV	104.29
4540SG-RK2	Replacement main (flat) gasket, Baylast™ to suit 4530SGV and 4540SGV	10.46
4540SG-RK3	Replacement cam arms and pins to suit 4030SGV and 4540SGV	59.35
4500-5	Baylast O-ring replacement seal for 4530, 4540, 5000-24	6.98
2143SEALBU	Flat replacement gasket for 31440-225AL, 41440-225AL, 41450-DCAL	7.80



4540SG-RK1



4540SG-RK3

Price Group: BY
AS02

TTMA Flange Butterfly Valve and Cam & Groove Adaptors

Part No.	Description	Fuel Compatibility	Price $
WD301ALVB	3" TTMA flanged butterfly valve, open/ closed detent version, FKM	Gasoline & diesel, up to E100 & B100 biofuels	820.19
WD401ALVB	4" TTMA flanged butterfly valve, open/ closed detent version, FKM	Gasoline & diesel, up to E100 & B100 biofuels	735.25
WD306ALVB	3" TTMA flanged butterfly valve, FKM, 3" TTMA flanged butterfly valve, metering model with 10 notch index plate, FKM	Gasoline & diesel, up to E100 & B100 biofuels	731.83
WD406ALVB	4" TTMA flanged butterfly valve, FKM, 4" TTMA flanged butterfly valve, metering model with 10 notch index plate, FKM	Gasoline & diesel, up to E100 & B100 biofuels	899.99
300-ALT-AL	3" TTMA flange x 3" cam & groove adaptor (straight)	Gasoline & diesel, up to E100 & B100 biofuels	210.44
400-ALT-AL	4" TTMA flange x 4" cam & groove adaptor (straight)	Gasoline & diesel, up to E100 & B100 biofuels	152.57



metering version



detent version



Price Group: BY
AS02

Q

Tank Truck Flanged Sight Flow Indicators



5200-SFI

Application:	For use with API Adaptors and TTMA flanged butterfly valves commonly found on tank trucks. The cast aluminium design of the 5200-SFI is suited to rough road environments and load rack applications.
Design:	The 5200-SFI is designed to be a drop in replacement for the one-piece acrylic sight glass used behind the API load head. Replacement sight glass is a fraction of the cost of the one-piece design. Strong and lightweight Large 4⅜" ID Allows for visual identification of the fuel grade prior to opening the valve 1¾" width replaces acrylic doughnut sightglass
Material:	Rugged aluminium construction is more durable than the single piece acrylic doughnut commonly used.
Pressure:	150 PSI hydrostatic pressure at 70°F.

Part No.	Description	Price $
DBSGF4-25	Sightglass Flange 4" TTMA x 25mm	305.46
5200-SFI	4" TTMA pattern flanged short sight flow indicator	399.30
5200-SFI-3	3" TTMA pattern flanged short sight flow indicator	282.86

Price Group: BY
AS02



DBSGF4-25

Spare Parts

Part No.	Description	Price $
5200-SFI-3-RK1	Sightglass repair kit comes with sightglass, O-rings and retaining ring to suit 5200-SFI-3	77.00
5200-SFI-RK1	Sightglass repair kit comes with sightglass, O-rings and retaining ring to suit 5200-SFI	158.21

* Flange gaskets are no longer supplied, a retaining ring and machined lip hold the acrylic tube in place.

Price Group: BY
AS02



Application:	Works with tank truck flanged butterfly valves found on gasoline trucks
Design:	Allows for visual identification of the fuel grade prior to opening the valve Larger I.D. allows tank truck flanged butterfly valves to connect to either end of the 400-SFI-AL 3¼" width

Part No.	Description	Price $
5201-SFI	4" sight flow indicator	501.64

Price Group: BY
AS02

Spare Parts

Part No.	Description	Price $
5201-SFI-RK1	Sightglass repair kit comes with sightglass, O-rings and retaining ring to suit 5201-SFI	207.44

Price Group: BY
AS02

TTMA Flange Screen



Design:	Stainless steel screen encapsulated in a FKM gasket For flange dimensions, diagrams and additional information please reference dixonvalve.com.au

Part No.	Description	Price $
TTFS4SS	2" Stainless steel screen with 1" square holes	197.70

Price Group: BY
AS02

Top Operator Camlift - Manual Operation

Application:	Dixon Bayco™ Camlifts are designed for use on road tankers specifically where opening and closing of the emergency valves is required from tanker walkway.
Features:	Quick action high lift mechanism ensures maximum emergency valve opening.
Design:	Designed to interchange with other brands commonly found in the Australian market. Mount direct to tanker walkways or separate weld in flange.
Materials:	Aluminium construction, Acetal Bearing Guide, S/S Shaft, Spring & fasteners, Bay-last™ seals and cork/buna gasket
Fuel Compatibility:	Biofuel compatible up to E100 (100% Ethanol) and B100 (100% Biodiesel. For detailed fuel compatibility please consult your nearest Dixon™ offices.

Part No.	Description	Price $
DBCO402	Manual camlift assembly c/w gasket and fasteners	454.42
DBCO402TF	Weld In tank flange to suit DBCO402	66.52
DBCO402-4	Cork buna flange gasket to suit DBCO402	17.56
DBLWKIT	Lift wire kit, stainless steel c/w cable, shackles and swivel	94.59

Price Group: BY
AS02


DBCO402


DBCO402TF


DBLWKIT

Dip / Fill Tube Adaptor Kits & Blank Plates

Application:	Dixon Bayco Dip and Fill Tubes and Adaptor Kits are designed for use on tanker compartments fitted with Dip & Fill fittings. Dip and Fill Tube Blank Plates are used where tankers are not fitted with Dip or Fill Tubes.
Design:	Designed to interchange with other brands commonly found in the Australian market. Mounts direct to manholes or tanker walkways
Material:	Aluminium construction, S/S fasteners and cork/buna gasket
Associated Equipment	ALDC300DC Camlock Dust Cap AL300DC-L Lockable Camlock Dust Cap

Part No.	Description	Price $
DBDA80	Dip tube adaptor kit c/w gasket and fasteners	146.11
DBDT80-2200	Dip Tube 80mm x 2200 mm c/w gauze. Cut length to suit.	224.42
DBFA80	Fill tube adaptor kit c/w gasket and fasteners	146.11
DBFT80-2200	Fill Tube 80mm x 2200 mm c/w gauze. Cut length to suit.	127.39
DBBP80	Dip / Fill blank plate kit c/w gasket and fasteners	69.03
2459CB	Cork buna gasket to suit dip / fill tube adaptors & blank plates	10.44
DBTS80	Dip / fill tube steady, aluminum with stainless steel fasteners	61.38
DBDTG80	Dip tube guide, 80mm, weld on tank floor	164.73
DBDTG80SP	Dip Tube Guide 80mm c/w additional striker plate fitted, weld to tank floor	186.27
DBDTG-SP	Replacement Striker Plate to suit DBDTG80	19.75
DBDTG80-1	Replacement Anti Rattle Buffer to suit DBDTG80	59.49

Price Group: BY
AS02


DBDA80


DBDT80-2200



DBFA80


DBFT80-2200



DBBP80



DBTS80


DBTG80

Q

Emergency Valve - Air Actuated



Application:	Dixon Bayco Emergency Valves are designed for use on road tankers to facilitate safe and efficient loading and discharge of tank contents.
Features & Benefits:	Quick action high lift sequentially operated pneumatic ram ensures maximum emergency valve opening for optimal flow rates. Main body includes a shear groove designed to break below the valve in the event of impact. This feature is designed to retain tank contents should the tanker be struck from the underside. Easily serviced, air ram is replaceable in situ without the need to remove entire valve from tanker, main poppet assembly is easily replaced once valve is removed from the tanker.
Design:	Mounts direct to tanker underside via separate weld in flange, companion outlet adaptor flanges are also available. With common flange to flange dimensions the emergency valve is designed to interchange with other brands commonly found in the Australian market
Materials:	Aluminium construction, S/S Shaft & Roller, Steel Springs & fasteners, Baylast™ seals.
Fuel Compatibility:	Biofuel compatible up to E100 (100% Ethanol) and B100 (100% Biodiesel. For detailed fuel compatibility please consult your nearest Dixon offices.



400GTTFBL
4" TTMA Flange Gasket



40418BL
Emergency Valve
Outlet Flange Gasket

Part No.	Description	Price $
DBFVAO210	Emergency Valve Assembly c/w Air Actuator	1323.41
DBFVTF210	Weld in Tank Flange, aluminium to suit DBFVAO210 c/w studs and fasteners	111.64
DBFVOF4-100	Weld flange outlet, aluminium to suit DBFVAO210 suits 4" & 100mm wetlegs c/w fasteners	118.42
40417BL	Tank Flange Gasket, Baylast™ to suit DBFVAO210	48.64
40418BL	Outlet Flange Gasket, Baylast™ to suit DBFVAO210	32.79
DBLWKIT	Lift Wire Kit, SS c/w Cable, Shackles & Swivel	94.59
DBVFAO210RK1	Air Ram replacement Assembly c/w Baylast™ gasket	POR
DBFVAO210K2	Bonded Poppet Replacement Kit c/w pins & fasteners	272.31

* Both 40417BL & 40418BL have been designed to interchange with other manufacturers product. Please consult Dixon™ for cross reference to other brands.

Price Group: BY
AS02

Q

Flotech™ - Checkmate Retain Overfill System 2-Wire Black & White

Application:	The Flotech™ stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless or PTFE. These probes are designed to thread onto a DOT 407 tan 3" clean out nipple. Sensor length can be adjusted using ¾" NPT pipe nipples.
Design:	All Flotech™ brand probes are trouble free probes, they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage.



FT150S Overfill Detection Probe

Part No.	Description	Price $
FT150S	7" 316 stainless steel-black and white 2 wire, overfill detection probe only (no housing)	812.59
FT191S	316 stainless steel probe housing, 3" NPS female thread mount	1117.77

Price Group: BY

AS02

Application:	The FT152 is mechanically and electrically compatible with Scully model 08819 and the Scully Intellicheck System
Design:	The FT152 retain sensor is a bottom retain detection sensor. The sensor has a ½" NPT mounting. Sensor is shipped with a ½" NPT weld-on aluminium half coupling for mounting. The side ports come out of the same side (like the overfill sensors) to make wiring easier.
Material:	Main sensor portion is stainless steel to prevent galling in the trailer. The wiring box is plastic to prevent corrosion and is removable to facilitate installation.



FT152 Retain Sensor

Part No.	Description	Price $
FT152	Retained fluid (Belly) sensor, 2 wire black and white	543.42

Price Group: BY

AS02

Application:	The FT208 Checkmate is compatible with the Scully brand black and white two-wire thermo-optic (thermistor) overfill and retain system. Components are drop-in replacement and compatible with the signal format required by the Scully Intellicheck brand on-board monitors. Easy to follow programming guide for a maximum of eight compartments, programmable for number of compartments, top only, top and bottom service with the same monitor.



FT208 Checkmate Retain / Overfill Monitor

Part No.	Description	Price $
FT208LH	Checkmate monitor, programmable for top only, or top and bottom sensors, with housing	2086.25

Price Group: BY

AS02

Sockets

Application:	Sockets allow the transfer of the electronic signal from the terminal control monitor to the tanker and return. Sockets will vary depending upon terminal equipment and regional regulations. Flotech™ brand sockets are mechanically and electronically compatible with the API RP1004 Rel. 2003 Bottom Loading Specification.
Design:	Sockets now available with optional stainless steel a removable nose ring. Replacement face plate assemblies are drop in replacements on all industry standard socket bodies.
Material:	Optic socket face plates are standard with hard coated aluminium alloy to prevent J-slot wear, optional SS versions offer extended service life through reduced J Slot wear. All hardware and contact buttons are stainless steel to prevent corrosion. Flotech™ brand sockets are standard colour coded to permit easy identification (optic sockets are blue, thermistors are green). Coloured caps are included for optic and thermistor models



Part No.	Description	Price $
FT304A	Optic socket, 10 pin and 4 J-slots, hardcoat aluminum nose cone (Australia)	548.92
FT304SSA	Optic socket, 10 pin and J-slots stainless steel replacement nose	709.74
FT314A	Replacement face plate assembly 4 J-slots 10 pin with hardcoat aluminum nose cone, blue optic cap	327.86
FT314SSA	Replacement face plate assembly 4 J-slots 10 pin. Stainless steel nose cone with blue optic cap	358.97
FT320	Replacement blue optic cap with lanyard	43.22

Price Group: BY

AS02

Q

Flotech™ - Checkmate Retain Overfill System 2-Wire Black & White



Application:	The FT150 thermo-optic 2 wire probe is electronically and mechanically compatible for drop-in replacement of commonly used 2-wire probes with black and white wires. The FT150 provides the fast response and reliability of optic technology in a thermistor application. Compatible with the Scully Intellicheck system.
Design:	All Flotech™ brand probes come with a unique dual elastomer seal for prisms and a smooth tapered tip design for easy installation without gasket damage.

FT150 Replacement Black and White 2-Wire Probes

Part No.	Description	Price $
FT150A	Replacement probe, thermo-optic, 2 wire (black and white), 7"	503.32
FT150-18	Replacement probe, thermo-optic, 2 wire (black and white), 18"	464.96
FT150-60	Replacement probe, thermo-optic, 2 wire (black and white), 60"	830.78

Price Group: BY
AS02



Application:	Install in a 2" NPT tapped hole or 2⅜" hole using the gasket and locking nut provided. Compatible with Scully Intellicheck monitors (probe housing is part # FT9000)
Design:	The FT151 thermo-optic sensor contains the FT150 probe and a 2" NPT housing.
Materials:	Probe holder is cast aluminium with a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. All screws and rings are heavy duty stainless steel for easy assembly and long life.

FT151 Thermo-Optic Sensors

Part No.	Description	Price $
FT151	Replacement 2 wire thermo-optic probe & 2" NPT mount housing	606.10

Price Group: BY
AS02

Overfill Kits



Part No.	Description	Price $
3COMPOVERFILLA	3 Compartment Overfill Kit c/w 3 x FT150A Probes, 1 x FT304A Tuck Plug Socket, 1 x FT155A Dummy Probe	2049.91
4COMPOVERFILLA	4 Compartment Overfill Kit c/w 4 x FT150A Probes, 1 x FT304A Tuck Plug Socket, 1 x FT155A Dummy Probe	2460.73
5COMPOVERFILLA	5 Compartment Overfill Kit c/w 5 x FT150A Probes, 1 x FT304A Tuck Plug Socket, 1 x FT155A Dummy Probe	2871.54
6COMPOVERFILLA	6 Compartment Overfill Kit c/w 6 x FT150A Probes, 1 x FT304A Tuck Plug Socket, 1 x FT155A Dummy Probe	3282.36
7COMPOVERFILLA	7 Compartment Overfill Kit c/w 7 x FT150A Probes, 1 x FT304A Tuck Plug Socket, 1 x FT155A Dummy Probe	3693.17
8COMPOVERFILLA	8 Compartment Overfill Kit c/w 8 x FT150A Probes, 1 x FT304A Tuck Plug Socket	3833.18
3COMPOVERFILLSS	3 Compartment Overfill Kit c/w 3 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket, 1 x FT155A Dummy Probe	2078.68
4COMPOVERFILLSS	4 Compartment Overfill Kit c/w 4 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket, 1 x FT155A Dummy Probe	2489.49
5COMPOVERFILLSS	5 Compartment Overfill Kit c/w 5 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket, 1 x FT155A Dummy Probe	2900.31
6COMPOVERFILLSS	6 Compartment Overfill Kit c/w 6 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket, 1 x FT155A Dummy Probe	3311.12
7COMPOVERFILLSS	7 Compartment Overfill Kit c/w 7 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket, 1 x FT155A Dummy Probe	3721.94
8COMPOVERFILLSS	8 Compartment Overfill Kit c/w 8 x FT150A Probes, 1 x FT304SSA Tuck Plug Socket	3861.95

Price Group: BY
AS02

Probe Housing

Application:	Dixon Bayco probe housing is designed for use on tanker hatches.
Design:	Designed to interchange with other popular brands commonly found in the Australian market. Mounts directly to manholes or tanked walkways.
Material:	aluminum construction
Associated Equipment:	FT150A, overfill probe



Part No.	Description	Price $
PHS2623	Probe holder assembly	POR
341905	Probe holder housing	31.50
112454	Probe housing, buna-cork gasket	6.00
112328	Stainless steel bolt M8 x 25mm long	1.10
112329	Stainless steel split washer	0.30

Price Group: BY
AS02

Grounding Ball & Bolt

Part No.	Description	Price $
FT450	Ground verification bolt	195.79
FT451	Ground verification ball	169.74



Price Group: BY
AS02

Flotech™ Overfill System Dummy Sensor FT155A

Part No.	Description	Price $
FT155A	Thermistor sensor dummy (each dummy adds up to 5 compartments)	340.66



Price Group: BY
AS02

Flotech™ Truck Tester

Application:	Allows complete testing of ground bolt grounding systems. Tests ground bolt in forward and reverse just like the rack monitor.
Features & Benefits:	• Reads TIM modules and displays the serial number on the screen • Automatic mode allows all four tests, or any combination, to run for a complete test of the trailer • LCD screen displays the final test results and a pass/fail indication for easy rapid testing of the overfill system • One man "Wet Test" feature FT555 signal an audible alarm sounding a number of beeps that match the wetted sensor • Microprocessor controlled with designed in flexibility to expand into a number of applications • Requires two D cell flashlight batteries that can be changed through a side battery access door



Part No.	Description	Price $
FT555	Truck Tester	4253.36

Price Group: BY
AS02

Q

API Bottom Rack Loading Fittings



Application:	API coupler uses a snap on connection where the coupling action is automatic upon contact with the API adapter. The coupler is completely modular so it can be built with various face seal combinations to be compatible with different alternative fuel, performance levels and applications. Two models are available: bonded nose seal and replaceable nose seal.
Design:	• 4" TTMA inlet mounting flange • 5 cam design for easy alignment and tight connection • ball-end handle for easy, comfortable operation • no special tools needed for maintenance • shaft seals can be changed without removing coupler from loading arm • fully interlocked collar can not be opened when connected and can not be disconnected when opened • one piece bonded nose seal ensures long life and cannot be washed out • optional replaceable nose seal for quick replacement without removal from loading arm
Compatibility:	**Chemical Compatibility (FKM Seals):** • gasoline • diesel • jet fuel • avgas • 100% ethanol • 100% methanol • 100% biodiesel • any blend of the above fluids **Chemical Compatibility (Baylast Seals):** • gasoline • diesel • avgas • 100% ethanol • 100% methanol • B2 to B20 biodiesel blends
Specifications:	Fully compliant with API RP1004:2003
Material:	• body: hard coated anodized AL 356 T6 • shroud: hard coated anodized AL 356 T6, SS insert • link, shaft, pin and crank: hardened 17-4PH stainless steel • cam: CF8M stainless steel • poppet and bearing: ZA-12 • seal options: Baylast, FKM, FKM GFLT
Temperature:	FKM Seals: -28°C to 204°C, Baylast Seals: -28°C to 121°C
Pressure:	Max Working Pressure: 150 PSI, Peak Surge Pressure: 350 PSI Pressure Drop: 3 to 4 PSI

Part No.	Max Flow Rate (GPM)	Weight	Seal Material	Price $
5400	600	9.07	Baylast	3128.24
5400B	600	9.07	FKM	3575.85
5400G	600	9.07	FKM GFLT	3184.42

Other seal materials available on request.

Price Group: BY

AS02

Spare Parts		
Part No.	**Description**	**Price $**
5354K3	Shaft seal kit FKM-B to suit 5400 series API valves	79.35
5354K5	Shaft seal kit FKM-GFLT to suit 5400 series API valves	86.90
5354K15	Replaceable nose seal kit FKM-B to suit 5400 series API valves	237.23
5354K17	Replaceable nose seal kit FKM-GFLT to suit 5400 series API valves	440.30
5354K19	5400 series valve repair kit c/w poppet, links and pins	324.91
112162	PTFE U seal to suit shaft seal*	143.48
112163	PTFE U seal to suit shaft bearing seal*	145.05
112164	PTFE U seal to suit poppet O-ring*	801.25

Price Group: BY

AS02

* When optional PTFE U seals are installed in the coupler they isolate the main elastomer seals from the liquid being conveyed, thereby increasing the service life of the elastomer seals when used with more aggressive fluids

Loading Arm Swivels

Features:	• TTMA loading arm swivel with heavy duty D style shovel handle • TTMA flanges on both ends • Shovel handle is used to guide the API load coupler onto the adapter on the tank truck • Long radius elbow improves the flow into the API load coupler and provides spacing between the load arm and the tank truck • Can be used with flange extensions above



Style 30, short radius



Style 30, long radius



Style 50



Style 40

Aluminium			
Size (inch)	**Part No.**	**Description**	**Price $**
4	43HTFXTFAL11000	Style 30 short radius, with handle, TTMA x TTMA flanges with FKM seals	3088.18
4	430TFXTFAL11000	Style 30 short radius, without handle, TTMA x TTMA flanges with FKM seals	1927.77
4	43HTFTFLAL11000	Style 30 long radius, with handle, TTMA x TTMA flanges with FKM seals	2013.71
4	430TFTFLAL11000	Style 30 long radius, without handle, TTMA x TTMA flanges with FKM seals	1985.20
4	44HTFXTFAL11000	Style 40 with handle, TTMA x TTMA flanges with FKM seals	2104.95
4	440TFXTFAL11000	Style 40 without handle, TTMA x TTMA flanges with FKM seals	1940.66
4	45HTFXTFAL11000	Style 50 with handle, TTMA x TTMA flanges with FKM seals	2353.21
4	450TFXTFAL11000	Style 50 without handle, TTMA x TTMA flanges with FKM seals	2304.27

Price Group: SD

AS02

Type 35 Loading Arm Swivel Replacement Parts		
Part No.	**Description**	**Price $**
ATN100X7	4" schedule 80 aluminum nipple	142.48
100DHAN-AL	D style heavy duty shovel handle	146.18
4RKOBU	buna seal kit	67.40
4RKOVIVI	FKM seal kit	84.35

Price Group: BY

AS02

TTMA Flanged Breakaway Coupling

Features:	Minimizes spillage and damage associated with drive away and pull away incidents. Installs between an API coupler and loading arm. Coupling automatically senses excessive load, closes the valves and disconnects, release is executed when force causes the bolts to break. High flow rate / low pressure drop. 150 PSI at ambient temperature 21°C FKM/FPM is standard seal.





TETF4AL

Aluminium		
Size (inch)	**Part No.**	**Price $**
4	SBC400ALTTMA	7857.41

Price Group: SD

AS01

TTMA Flange Extensions

Features:	Used on load arms to connect an API load coupler to a load arm. Adds a 6" space between the load arm and the tank truck. Extension with groove provides a specified parting point to prevent excessive damage to the loading arm.



TETFG4AL

Aluminium			
Size (inch)	**Part No.**	**Description**	**Price $**
4	TETF4AL	TTMA flange extension	166.68
4	TETFG4AL	TTMA flange extension with groove	184.00

Price Group: SD

AS02

Q

Rack Cord Assemblies



Features:	• Highly visible safety orange jacket to meet trip hazard requirements • Cord is bonded mechanically and resistant to abrasion and oil • Cord sets are interchangeable with industry standard rack cords. • All wiring is compatible with standard Scully color codes and wiring number configurations. • The 9 pin conductor is shielded to be compatible with Scully VIP system. • Plug body is reinforced nylon and is color coded green • Button contacts are 316 stainless steel to prevent corrosion • All other hardware is stainless steel

Part No.	Description	Price $
FT600C	plug with 30' coiled cord	1818.60
FT600SC	plug with 20' straight cord	2221.46

Price Group: BY
AS02

Spare Parts		
Part No.	**Description**	**Price $**
FT601-10	replacement plug body	577.24
FT602	replacement 30' coiled cable	1079.39
FT603	plug hanger	270.75

Price Group: BY
AS02

FloTech™ FT690 Series Rack Monitor Testers



FT590TG

Part No.		Price $
FT590TG	rack tester with grounding bolt	1731.90
FT590TGT	rack tester thermistor	2038.70
FT590OG	rack tester with ground bolt	1523.50
FT590OGT	rack tester with ground bolt and Trailer Identification Module	1830.20

Price Group: SD
AS02

Reelcraft® Static Discharge Reel



Application:	Used to ground equipment in hazardous atmospheres, such as fuel trucks or carts transferring flammable materials. When properly clamped to ground, the static discharge reel dissipates static electrical buildup, reduces chances of sparking and the potential for explosion.
Design:	• Supplied with a 3/32" OD steel aircraft cable • DC resistance is approximately one ohm per 50' of steel cable

Part No.	Description	Price $
G3050	single 7" x 7" stranded steel	1103.51

Price Group: BY
AS02

Q

API Rack Cord Assemblies

FloTech™ Part No.	Civacon Part No.	Scully Part No.	API		Cord		J Slots			Pins			Breakaway Plug		Price $
			Thermistor	Optic	20' Straight	30' Coiled	2	3	4	6	8	10	Optic J560 Aluminium	Thermistor 13 Pin Plastic	
FT600	7300SR-7300	21818	✓			✓	✓				✓				1778.50
FT600-4			✓			✓			✓		✓				1780.60
FT600C	7300CSR-7300	31092	✓			✓			✓			✓			1818.60
FT600C-2	7300C-7300		✓			✓	✓					✓			2039.10
FT600P	7320SR-7320		✓			✓	✓				✓			✓	2280.90
FT600P-4			✓			✓			✓		✓			✓	2283.00
FT600S	7300-STRAIGHT	20830	✓		✓		✓				✓				1635.60
FT600SC	7300C-STRAIGHT		✓		✓				✓			✓			2221.46
FT600CP			✓			✓			✓			✓		✓	2069.28
FT600SP			✓				✓				✓			✓	2137.90
FT605C				✓		✓			✓	✓					1965.10
FT620	7100SR-7100	21831		✓		✓		✓		✓					1736.40
FT620P	7100-J560			✓		✓		✓		✓			✓		2009.10
FT620X620				✓		✓		✓		✓					2222.40
FT620S	7100-STRAIGHT	21764		✓	✓			✓		✓					1593.60

API Rack Cord Parts

FloTech™ Part No.	Civacon Part No.	Scully Part No.	API		Cord		J Slots			Pins			Breakaway Plug		Price $
			Thermistor	Optic	20' Straight	30' Coiled	2	3	4	6	8	10	Optic J560 Aluminium	Thermistor 13 Pin Plastic	
FT601	7310SR-7310		✓				✓				✓				698.60
FT601-4			✓						✓		✓				700.70
FT601-10			✓						✓			✓			577.24
FT602			✓			✓									1079.39
FT603	7350-7350		✓						✓						270.75
FT621	7110SR-7110	21766		✓				✓		✓					702.30
FT622	7220-7220	31099		✓				✓							1123.00
FT623	7150-7150			✓				✓							210.10
FT624		31098		✓	✓	✓									1297.60

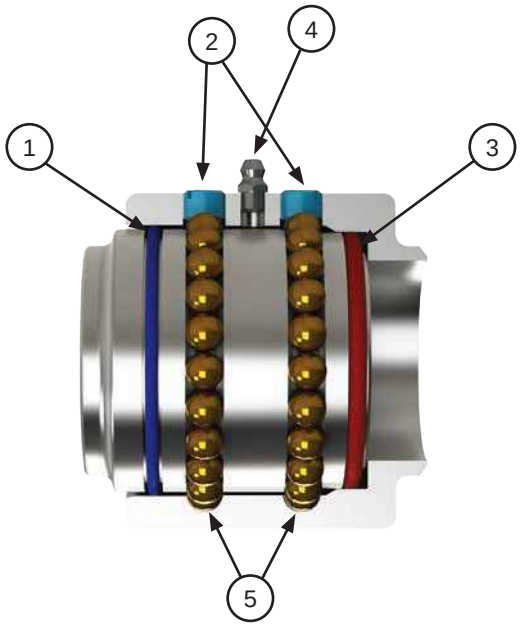
Q

Swivel Joints



Applications:	• Used wherever a leak-proof swivel connection is needed in pipelines or in combination with hoses to eliminate hose twisting • Industries range from petroleum, petrochemical, refining, mining, distilling, paint, farm irrigation and fertilizing, wastewater treatment plants and food and beverage process equipment. Dixon™'s swivel joints are found in blending plants, drum filling applications, fluid and dry bulk transfer, vacuum trucks, oil and gas trucks and water trucks. Larger swivels can be found in the steel industry, marine bulk transfer and many more.
Features:	• Full 360° rotational movement • Wide spacing between dual ball bearing raceways ensures greater load bearing capacity • Precision-machined design ensures alignment and years of trouble-free service • O-ring dust seal protects the ball races and seals chamber from outside elements • Radius elbow design ensures a smooth flow pattern • Hydrostatic testing is performed on all swivels before shipment
Options Available:	• End configurations: female NPT,150# flanges, TTMA flange, grooved, weld end and many other variations • Seal options: Buna, FKM, PTFE, EPDM, FDA Buna, FFKM • Ball bearing materials: carbon steel, 440 stainless steel, and 316 stainless steel • Grease materials: Lithium, FDA approved/food grade and silicone • Swivels that include oxygen, steam or submerged service can be specifically designed for unique applications (special order) • 100% full penetration weld • Re-build kits available • Custom swivel options available, contact Dixon™ at 1300 134 651

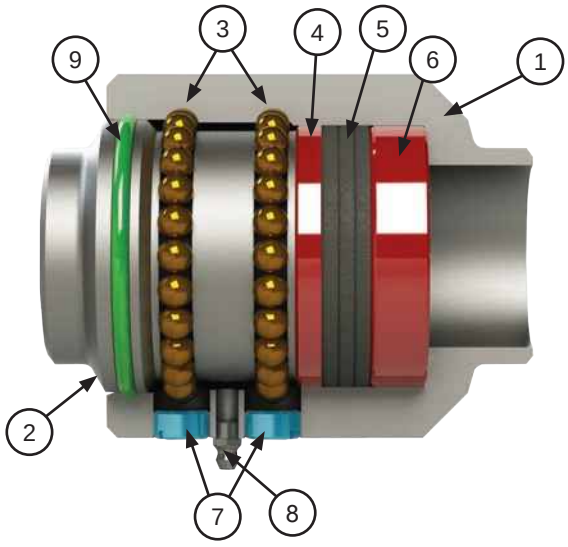
O-ring Swivel Joints - Parts Identification List



1. O-ring (dust) seal
2. ball retainer screw
3. O-ring (pressure) seal
4. grease fitting
5. ball bearings

O-ring Features:
- sizes: 1"-4"
- O-ring pressure seal ensures a leak-proof seal and smooth rotation with lower torque.
- available working pressure ratings up to 1000 PSI (6900 kPa)
- available in carbon steel, 316L stainless steel, aluminum, brass and malleable iron

V-ring Swivel Joints - Parts Identification List



1. body
2. sleeve
3. ball bearings
4. seal retainer
5. V-ring (pressure) seal
6. spring retainer
7. ball retainer screw
8. grease fitting
9. O-ring (dust) seal

V-Ring Features:
- sizes: 2"-12"
- spring loaded triple V-ring sealing system ensures a leak-proof seal at either high or low pressure and extends seal life
- available working pressure ratings up to 1000 PSI (6900 kPa)
- available in carbon steel, 316L stainless steel and limited aluminum

Swivel Joints Style Planes of Rotation - Single Plane Style 20



female NPT x female NPT



150# ASA flange x 150# ASA flange

Single Plane Style 30



female NPT x female NPT



150# ASA flange x 150# ASA flange

Single Plane Style 40



female NPT x female NPT



150# ASA flange x 150# ASA flange

Swivel Joints Style Planes of Rotation - Single Plane Style 50



female NPT x female NPT



150# ASA flange x 150# ASA flange

Double Plane Style 60



female NPT x female NPT



150# ASA flange x 150# ASA flange

Double Plane Style 70



female NPT x female NPT



150# ASA flange x 150# ASA flange

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Swivel Joints Style Planes of Rotation - Triple Plane Style 80



female NPT x female NPT

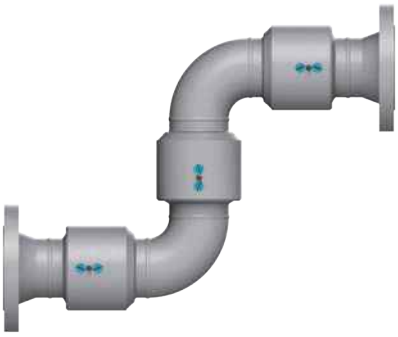


150# ASA flange x 150# ASA flange

Triple Plane Style 10



female NPT x female NPT



150# ASA flange x 150# ASA flange

Working Pressures

Dixon™ swivels are recommended for use at the following maximum Non-Shock Cold Working Pressures (NSCWP) provided in PSI, at ambient temperatures 21°C.

Size	V-ring *Carbon Steel* **CS**	O-ring *Carbon Steel* **OC**	V-ring *Stainless Steel* **SS**	O-ring *Stainless Steel* **OS**	*Aluminum* **AL**	*Brass* **BR**	*Malleable Iron* **MI**
1"	---	1000	---	1000	150	---	---
1¼"	---	---	---	---	150	---	---
1½"	---	1000	---	1000	150	300	600
2"	1000	1000	1000	1000	150	300	600
3"	1000	1000	1000	1000	150	300	600
4"	1000	---	1000	---	150	---	---
6"	1000	---	---	---	150	---	---
8"	---	---	---	---	150	---	---

- When using flanged ends, the pressure rating will be reduced to coincide with that of the flange being used. Carbon steel and stainless steel 150# flanges are recommended for use at 275 maximum PSI at ambient temperature 21°C (70°F).
- Lubrication should be performed periodically, depending on service and operating conditions. Twice yearly is normally sufficient.
- All dimensions are approximate. Where critical, contact Dixon™ at 1300 134 651.

Ordering Information - Swivels

Size	
Style (Shape)	
End Configuration	
Material	
Maximum Working Pressure	
Temperature Range	
Media: specify product being handled (if chemical, advise concentration)	
Submerged or Oxygen Service	
If for constant rotation, advise RPM	
If for suction service, advise maximum vacuum in inches of mercury (Hg)	

Our Sales and Engineering staff will be happy to help you evaluate your swivel application. Please call 1300 134 651

Ordering Information • Swivels

Example: 2 [A] 20 [B] F [C] X F [C] CS [D] 0 [E] 0 [F] 1 [G] 0 [H] 0 [I]

A Size					
B Style					
C End Connections	**W** Weld End	**F** Female NPT	**FG** 150# ASA Flange	**TF** Tank Truck Flange	**PF** 300# ASA Flange (not available in aluminum
D Material	**CS (V-ring) Carbon Steel** OC (O-ring) Carbon Steel	**SS (V-ring) Stainless Steel** OS (O-ring) Stainless Steel	**AL** Aluminum	**BR** Brass	**MI** Malleable Iron

Code	E Pressure Seal	F Dust Seal	G Retainers	H Ball Bearings	I Grease
0	Buna N (Standard)	Buna N (Standard)	No Retainers (O-ring Swivel)	Carbon Steel (Standard)	Lithium
1	FKM	FKM	Aluminum (Standard in CS V-ring)	440 Grade SS	FDA Approved/ Food Grade
2	PTFE	.....	PTFE (Standard in SS V-ring)	316 Grade SS	Silicone (Required with EPR Seals)
3	Ethylene Propylene (Requires Silicone Grease)	Ethylene Propylene (Requires Silicone Grease)	.....	.....	.....
4	FDA Buna (O-ring Only)	FDA Buna	.....	.....	.....

The Swivel should be packed such that the surfaces coming in contact with the fluid being handled are compatible with that fluid. In a case where the swivel is being used in a submerged service, this would include the dust seals and ball bearings. We always recommend the use of the stainless steel ball bearings when building a swivel for submerged service. Standard carbon steel ball bearings could rust together, making it impossible to disassemble the swivel and may affect operation.

Split Flange Swivels

Application:	Used in petroleum, blending plants, petrochemical, refining, mining, distilling, paint plants, farm irrigation and fertilizing, wastewater treatment, food and beverage process equipment and marine
Features:	Bearing pack design allows easy seal change without removing the ball bearings Simple maintenance: remove one nose piece, replace seal pack, reinstall with little down-time Instream seal separates wetted area from ball bearings allowing for longer bearing pack life over conventional swivels Pressure rating: up to 600 PSI Temperature: -40°C to 232°C depending on seal material (with standard seals: 177°C Wide set bearing race for higher moment loads Compact design for low profile applications
Material:	bearing pack: through hardened forged high carbon alloy material contact surfaces: stainless steel or carbon steel nose pieces
Available Options:	Stock end configurations: 150 lb. and 300 lb. flanges, FNPT, butt weld, others per request Stock seals: Baylast™, FKM, PTFE, others per request Full penetration weld Contact Dixon for additional materials and configurations



Size	Part No.	Description	Price $
2	SF220WXWCS00	carbon steel weld x weld with Baylast™ pressure seals	2460.30
3	SF320WXWCS00	carbon steel weld x weld with Baylast™ pressure seals	2654.40
4	SF420WXWCS00	carbon steel weld x weld with Baylast™ pressure seals	2800.10
2	SF220WXWCS10	carbon steel weld x weld with FKM pressure seals	2369.90
3	SF320WXWCS10	carbon steel weld x weld with FKM pressure seals	2389.40
4	SF420WXWCS10	carbon steel weld x weld with FKM pressure seals	2824.00
2	SF220FGXFGCS00	carbon steel 150# flange x 150# flange with Baylast™ pressure seals	2664.20
3	SF320FGXFGCS00	carbon steel 150# flange x 150# flange with Baylast™ pressure seals	2962.60
4	SF420FGXFGCS00	carbon steel 150# flange x 150# flange with Baylast™ pressure seals	3027.50
2	SF220FGXFGCS10	carbon steel 150# flange x 150# flange with FKM pressure seals	2552.80
3	SF320FGXFGCS10	carbon steel 150# flange x 150# flange with FKM pressure seals	2638.90
4	SF420FGXFGCS10	carbon steel 150# flange x 150# flange with FKM pressure seals	3158.10

Price Group: SD
AD09

Split Flange Swivel Components			
Size (Inch)	**Part No.**	**Description**	**Price $**
2	2SFBP	Carbon steel split flange bearing packs	1587.60
3	3SFBP	Carbon steel split flange bearing packs	1721.00
4	4SFBP	Carbon steel split flange bearing packs	1759.60
Split Flange Nose Pieces (2 required per bearing pack)			
2	2SFNPCS	carbon steel nose pieces	324.70
3	3SFNPCS	carbon steel nose pieces	344.00
4	4SFNPCS	carbon steel nose pieces	380.60
2	2SFNPSS	316 stainless steel nose pieces	865.90
3	3SFNPSS	316 stainless steel nose pieces	930.10
4	4SFNPSS	316 stainless steel nose pieces	1046.00
Seal Kits (1 required per bearing pack)			
2	2SFSK-BAYLAST	Baylast™ seal, PTFE retainer, carbon steel bolts	116.80
3	3SFSK-BAYLAST	Baylast™ seal, PTFE retainer, carbon steel bolts	138.80
4	4SFSK-BAYLAST	Baylast™ seal, PTFE retainer, carbon steel bolts	172.70
2	2SFSK-VI	FKM seal, PTFE retainer, carbon steel bolts	129.20
3	3SFSK-VI	FKM seal, PTFE retainer, carbon steel bolts	152.80
4	4SFSK-VI	FKM seal, PTFE retainer, carbon steel bolts	196.60
2	2SFSK-TES	PTFE seal, PTFE retainer, carbon steel bolts	199.40
3	3SFSK-TES	PTFE seal, PTFE retainer, carbon steel bolts	321.90
4	4SFSK-TES	PTFE seal, PTFE retainer, carbon steel bolts	253.30







Price Group: SD
AD09

Q

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R

Hydrostatic Test Pumps

Application:	A safe, cost effective pump to test hose before putting it into service.
Specifications:	• 5.5 gpm fill rate • Test pressure: 0 - 1500 PSI • Stainless interior • Air gauge for quick, easy adjustment of maximum test pressure • High pressure test gauge • Filter/Regulator for clean, dry air to insure long life of unit • On - off valve for air input • Easy to use. Portable • Use of Coalescing Filter and Water Filter recommended for prolonged life

Part No.	Price $
PTP	10084.02

Price Group: SD

AU02



Pneumatic

Specifications:	• 1.3 gpm fill rate • Test pressure: 200 - 2000 PSI • Suction strainer keeps dirt out of pump • High pressure test gauge • 115v motor • 6 ft. power cord • Easy to use. Portable

Part No.	Price $
ETP	8252.76

Price Group: SD

Contact Dixon™ for further information including test procedures.

AU02



Electric

Hand Hydrotest Pumps

Specifications:	• Stainless steel piston, aluminum body • Designed for use in testing pipe lines, pressure tanks and pressure vessels • Uses efficient and long lasting check valves • Cylinder displacement: 1.37 cu. in. • 0-1000 PSI pressure gauge, 10' pressure hose and quick disconnect coupler included • Piston: ⅞" with 2" stroke

Inlet NPT	Outlet NPT	Part No.	WP		Price $
			PSI	MPa	
½	½	HHTP	1000	7	3989.07

Contact Dixon™ for further information including test procedures.

Price Group: SD

AU02



R

Stretch Straps



Material:	Straps are EPDM, S-Hooks are steel.

Length (mm)	Part No.	Price $
250 *	SSE10	7.79
380 *	SSE15	10.61
530 *	SSE21	12.35
790 *	SSE31	12.06
1040 *	SSE41	10.98

* Measurement does not include S-Hooks.

Price Group: SD
AU02

WARNING!!
FAILURE TO COMPLY WITH THIS WARNING MAY RESULT IN SERIOUS DAMAGE AND/OR PERSONAL INJURY.
MAXIMUM END TO END SAFE STRETCH = 150% OF LENGTH
- Do not exceed maximum safe stretch
- Inspect before each use. Do not use if strap is cut, cracked or abraided
- Inspect hooks for damage and/ or wear. Replace if needed
- Protect strap from sharp edges or heat
- Wear eye protection during use
- Do not use this product as the primary tie down
- Refer to federal or state regulations for proper tie down methods

Safety Tags



Size (mm)	Part No.	Price $
31 x 60	DWL100	1.29

Sold in quantities of 100 only

Price Group: SD
AU02

WARNING
- Worn-out hose fittings should be replaced.
- Loose clamps on hose can be dangerous.
- Bolt type clamps should be retensioned regularly.
- For extra safety, retaining devices such as clips, chains or cables must be used.

Dixon™ strongly recommends the use of a safety tag or warning label on all hose assemblies.

Safety Tape



Size (mm)	Part No.	Price $
15	DSTW	46.05

Length of tape - 50m. Approx. 255 warnings

Price Group: SD
AU02

WARNING
- Worn-out hose fittings should be replaced.
- Loose clamps on hose can be dangerous.
- Bolt type clamps should be retensioned regularly.
- For extra safety, retaining devices such as clips, chains or cables must be used.

Dixon™ strongly recommends the use of a safety tag or warning label on all hose assemblies.

PTFE Thread Tape



Specifications:	Mil spec: MIL-T-37730A Thickness: 0.09mm Density: 0.4G/CM3C Tape Length: 13.2 metres

Tape Width (mm)	Tape Length (mtr)	Part No.	Description	Price $
12	12	TTB50	PTFE Thread tape 12 mm	4.24
25	12	TT25MM	PTFE Thread tape 25 mm	2.24

Price Group: SD
HA01

R

Dixon™ Diameter Tape with Groove Depth Dimensions

An accurate groove depth is critical to the performance of any grooved piping system. Get it right with Dixon™'s diameter tape with roll grooved dimensions.

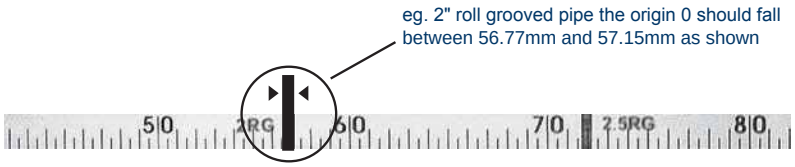
How to use Dixon™'s diameter tape

Place the diameter tape around the pipe or hose to be measured.

For grooved pipe, check that the tape is sitting flat on the base of the groove, around the entire circumference. Measure the diameter. This measurement is taken by reading the point along the tape that lines up '0'.

Using groove depth markings

If the groove is within specification, the origin '0' will fall within the relevant tolerance band, if the groove is outside specification, the '0' will be outside the relevant tolerance band.





Part No.	Price $
DDTM	14.79

Price Group: SD

AU02

Dixon™ Soft Hose Mallet

Application:	Soft Mallet for pounding metal objects without damaging them. The head material won't crack and is firmly attached to a strong shaft-handle.



580mm

Length (mm)	Weight (kg)	Part No.	Price $
580	4.5	DCM1	740.72

Price Group: SD

AU02

Dixon™ Hose Knife

Application:	For fast cutting of rubber hose & belting. Guard protects hand while cutting.



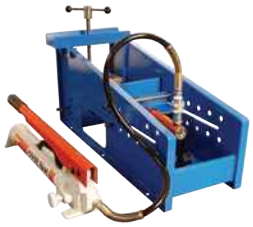
Part No.	Price $
DRK15	89.98

Price Group: SD

AU02

Coupling Inserters

Application:	For insertion of hose shanks into hose with a 70mm to 181mm OD.



Air/Hydraulic foot pump

Part No.	Description	Price $
CI96	Supplied with a 10,000 PSI hand pump and 5 ton ram.	10486.53
CI96AH	Supplied with a 10,000 PSI Air/Hydraulic pump and 5 ton ram.	12791.86
CI9311SML	Small jaws for 25mm to 75mm OD hose	263.32



Price Group: SD

AU01

R

Tubing Cutter & Blade



Specifications:	• leaves tube unaltered after cut • compact and lightweight • maximum OD 14 mm • rugged construction cuts tubing or hose up to 19 mm • corrosion resistant hardened steel blade ensures straight, crisp cuts for optimum fit

Part No.	Description	Price $
TC97	Cutter	15.75
TC97RB	Replacement Blade	13.78

Price Group: SD

AU02

Hose Cutter & Blade



Specifications:	• cuts low pressure fabric reinforced hose up to 25 mm OD • reversible blade

Part No.	Description	Price $
HC90	Cutter	74.21
HC90RB	Replacement Blade	18.89

Price Group: SD

AU02

Hose & Tubing Cutter & Blade



Specifications:	• cuts hose and tubing up to 50 mm OD • PE up to 40 mm ID • PVC up to 32 mm ID • stainless steel blade

Part No.	Description	Price $
LHC95	Cutter	99.00
LHC95RB	Replacement Blade	37.92

Price Group: SD

AU02

Dixon® Coupling Lubricant



Features:	• biodegradable lubricant for coupling shanks, O-rings, hoses, sleeves, rubber washers and grommets • once coupling lubricant drys, slipping action goes away

Part No.	Description	Price $
DCL20	1 Liter	62.01
DCL80	4 Liters	187.36

Price Group: SD

AU02

R



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SAFETY, TECHNICAL & ENGINEERING

S

Force Chart

Hose/Pipe ID		End Pull Force in Kilograms										
inch	mm	25 PSI	50 PSI	75 PSI	100 PSI	150 PSI	200 PSI	250 PSI	300 PSI	500 PSI	1000 PSI	2000 PSI
¼	6	1	1	2	2	3	4	5	7	11	22	44
⅜	10	1	2	4	5	7	10	12	15	25	49	98
½	13	2	4	7	9	13	17	22	26	44	87	175
¾	19	5	10	15	20	29	39	49	59	98	197	393
1	25	9	17	26	35	52	70	87	105	175	349	699
1¼	32	14	27	41	55	82	109	136	164	273	546	1,092
1½	38	20	39	59	79	118	157	197	236	393	786	1,572
2	51	35	70	105	140	210	279	349	419	699	1,397	2,795
2 ½	64	55	109	164	218	328	437	546	655	1,092	2,184	4,367
3	76	79	157	236	314	472	629	786	943	1,572	3,144	6,289
4	102	140	279	419	559	838	1,118	1,397	1,677	2,795	5,590	11,180
5	127	218	437	655	873	1,310	1,747	2,184	2,620	4,367	8,734	17,468
6	152	314	629	943	1,258	1,887	2,515	3,144	3,773	6,289	12,577	25,154
8	203	559	1,118	1,677	2,236	3,354	4,472	5,590	6,708	11,180	22,359	44,718
10	254	873	1,747	2,620	3,494	5,240	6,987	8,734	10,481	17,468	34,936	69,872
12	305	1,258	2,515	3,773	5,031	7,546	10,062	12,577	15,092	25,154	50,308	100,616

Note: For hose ID's from 1¼" to 12" the force in kilograms is greater than the PSI.

FORCE is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of kilograms of FORCE exerted, you merely multiply the area of the ID times the working pressure being used.

AREA OF A CIRCLE: $\pi \times R^2$ (PI [3.1416] x radius squared)

FORCE = AREA x PRESSURE

Force Slide Charts are available on request.

Understanding the Forces at Work

In all pressurised hose and piping systems there are invisible forces at work being used to transfer media through the system or to provide energy to equipment to perform the required task.

The same features of a pressurised system that make it useful also make it potentially dangerous. To keep pressurised systems safe it is crucial that the forces are understood, and that the equipment being used (ie hose, pipe etc) is suitable for the application.

Hose assemblies must be designed and built with confidence that they will perform to requirements without chance of failure. To achieve the required level of confidence, the hose must either have a proven history, or be tested and certified for use in that application. There is often just too much to risk should something go wrong.

The amount of end force on a hose assembly is determined by multiplying the pressure by the end cross sectional area. This end force is the force that a clamp must resist to prevent the fitting from coming out of the hose. For example, a 1" hose at 100PSI exerts 79 pounds (36kg) end force. However a 6" hose installed on the same system operating at 100PSI will exert an end force of 2,827 (1,282kg) end force.

The clamp in a hose assembly is attempting to create a frictional force between the hose and fitting greater than the force trying to push the fitting out. A hose clamp is producing both friction and a lock to overcome this end force.

Why then do fittings come out of hoses? Either the end force is greater than the frictional force on a smooth tail fitting, or the material changes shape and "flows" out of the barbs, known as 'cold flow'.

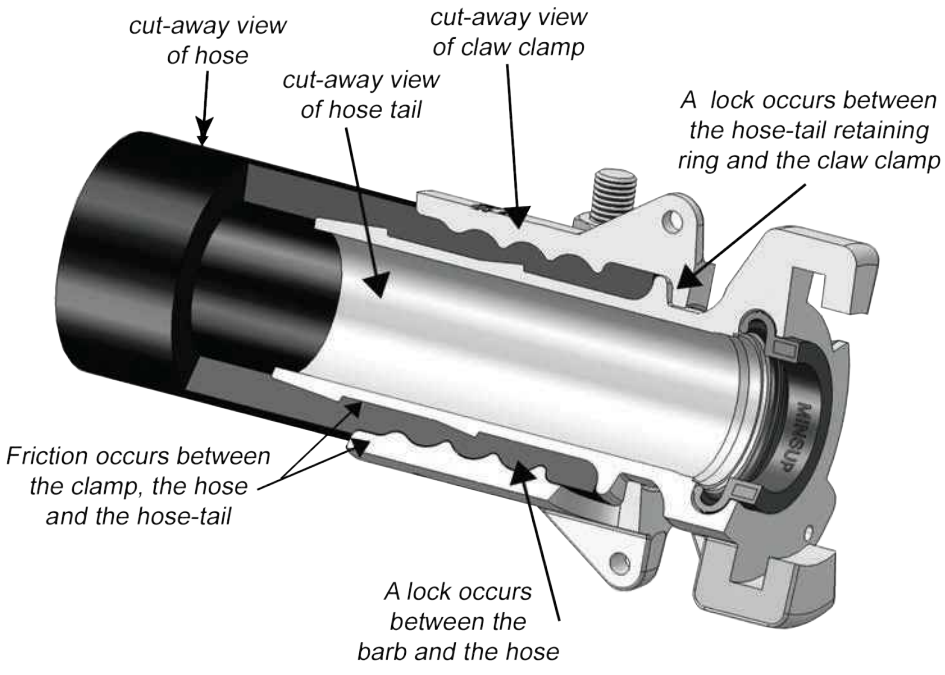
"Cold flow is the distortion, deformation or dimensional change which takes place in materials under continuous load at temperatures within the acceptable working range."

Simply put, this means the material flows and moves. In relation to hose assemblies, the force applied by the hose clamp combined with the end force caused by pressure, will cause the ends of the hose to stretch out resulting in thinner wall section. The flow on effects this has created is reduced torque on clamp bolts and less clamping force between the clamp, hose and hose tail.

The effects of cold flow will vary depending on many factors such as materials, temperature, fitting geometry etc.

When specifying a hose it is most important to ensure that all of the application criteria are explained so that a hose assembly can be specified to suit. Something as seemingly minor as a slightly elevated working temperature can dramatically effect the performance of the hose assembly.

The final consideration needs to be maintenance to your hose assembly. Although your hose assembly has been built to specifications, consideration still needs to be given to cold flow. Bolted hose assemblies must have the torque ratings checked "routinely". Many end users demand to know what "routinely" means and ask the hose supplier to specify requirements. Unfortunately, due to the number of variables at play, "routinely" can not be defined or specified. What must be done is for the end user to seek advice from the supplier on how to best maintain their hose assemblies.



MSHA (Mine Safety and Health Administration) Regulations

30 CFR Sections 56.13021 and 57.13021
Except where automatic shut-off valves are used, safety chains or other suitable locking devices shall be used at connections to machines of high-pressure hose line of ¾" inside diameter or larger, and between high-pressure hose lines of ¾" inside diameter of larger, where a connection failure would create a hazard.

30 CFR Section 75.1730

(e) Safety chains, suitable locking devices or automatic cut-off valves shall be used at connections to machines of high-pressure hose lines of ¾" inside diameter or larger, and between high-pressure hose lines of ¾" inside diameter or larger, where a connection failure would create a hazard. For the purposes of this paragraph, high-pressure means pressure of 100 PSI or more.

30 CFR Section 77.412

(d) Safety chains or suitable locking devices shall be used at connections to machines of high-pressure hose line of 1" inside diameter or larger, and between high-pressure hose line of 1" inside diameter or larger, where a connection failure would create a hazard.

OSHA Regulations

Standards - 29 CFR, 1910.242 (partial):

(b) Compressed air used for cleaning - compressed air shall not be used for cleaning purposes except where reduced to less than 30 PSI and then only with effective chip guarding and personal protective equipment.

Standards - 29 CFR, 1915.131 (partial):

(e) Before use, pneumatic tools shall be secured to the extension hose or whip by some positive means to prevent the tool from becoming accidentally disconnected from the whip.

Standards - 29 CFR, 1926.302 (partial):

(b) (1) Pneumatic power tools shall be secured to the hose or whip by some positive means to prevent the tool from becoming accidentally disconnected.

(b) (2) Safety clips or retainers shall be securely installed and maintained on pneumatic impact (percussion) tools to prevent attachments from being accidentally expelled.

(b) (3) All pneumatically driven nailers, staplers and other similar equipment provided with automatic fastener feed, which operate at more than 100PSI pressure at the tool shall have a safety device on the muzzle to prevent the tool from ejecting fasteners, unless the muzzle is in contact with the work surface.

(b) (4) Compressed air shall not be used for cleaning purposes except where reduced to 30 PSI and then only with effective chip guarding and personal protective equipment which meets the requirements of Subpart E of this part. The 30 PSI requirement does not apply for concrete form, mill scale and similar cleaning purposes.

(b) (5) The manufacturer's safe operating pressure for hoses, pipes, valves, filters and other fittings shall not be exceeded.

(b) (6) The use of hoses for hoisting or lowering tools shall not be permitted.

(b) (7) All hoses exceeding ½" inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure.

Standards - 29 CFR, 1926.306

(a) "General requirements"

(a) (1) **"Application."** This section applies to compressed air receivers, and other equipment used in providing and utilising compressed air for performing operations such as cleaning, drilling, hoisting, and chipping. On the other hand, however, this section does not deal with the special problems created by using compressed air to convey materials, nor the problems created when men work in compressed air as in tunnels and caissons. This section is not intended to apply to compressed air machinery and equipment used on transportation vehicles such as steam railroad cars, electric railway cars, and automotive equipment.

(a) (2) **"New and existing equipment."**

(a) (2) (i) All new air receivers installed after the effective date of these regulations shall be constructed in accordance with the 1968 edition of the A.S.M.E. Boiler and Pressure Vessel Code Section VIII.

(a) (2) (ii) All safety valves used shall be constructed, installed and maintained in accordance with the A.S.M.E. Boiler and Pressure Vessel Code, Section VIII Edition 1968.

(b) 1926.306

(b) "Installation and equipment requirements"

(b) (1) "Installation." Air receivers shall be so installed that all drains, handholes, and manholes therein are easily accessible. Under no circumstances shall an air receiver be buried underground or located in an inaccessible place.

(b) (2) "Drains and traps." A drain pipe and valve shall be installed at the lowest point of every air receiver to provide for the removal of accumulated oil and water. Adequate automatic traps may be installed in addition to drain valves. The drain valve on the air receiver shall be opened and the receiver completely drained frequently and at such intervals as to prevent the accumulation of excessive amounts of liquid in the receiver.

(b) (3) **"Gauges and valves"**

(b) (3) (i) Every air receiver shall be equipped with an indicating pressure gage (so located as to be readily visible) and with one or more spring-loaded safety valves. The total relieving capacity of such safety valves shall be such as to prevent pressure in the receiver from exceeding the maximum allowable working pressure of the receiver by more than 10 percent.

(b)(3) (ii) No valve of any type shall be placed between the air receiver and its safety valve or valves.

Standards - 29 CFR, 1926.603 (partial):

(a) (9) Steam hose leading to a steam hammer or jet pipe shall be securely attached to the hammer with an adequate length of at least ¼" diameter chain or cable to prevent whipping in the event the joint at the hammer is broken. Air hammer hoses shall be provided with the same protection as required for steam lines.

(a) (10) Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected.

The regulations may be viewed in full on the OSHA website, http://www.osha.gov. Please check the website for updates.

Properties of Rubber Hose

Polymer	Ethylene Propylene Diene Monomer	Natural	Neoprene	Nitrile	Styrene Butadiene	FKM	Silicone
Abbreviation	EPDM	NR	CR	NBR	SBR	FKM	SI
Hardness range ° A	20-90	30-98	25-90	20-98	25-95	60-90	30-85
Tensile strength	2	1	2	2	2	3	4
Elongation	2	1	2	2	2	2	3
Abrasion	3	2	2	2	2	3	4
Tear	2	1	2	3	3	3	4
Compression set @ 20°C	2	2	2	2	2	1	1
Compression set @ 100°C	2	4	3	2-3	3	1	1
Compression set @ 150°C	3	5	5	5	5	1	1
Denting	4	1	2	3	3	2	1
Service Temp range	-70 to 350°F -56 to 177°C	-70 t 180°F-56 to 82°C	-60 to 250°F -50 to 121°C	-65 to 212°F -55 to 100°C	-65 to 212°F -55 to 100°C	-40 to 550°F -40 to 287°C	-178 to 600°F -115 to 315°C
Max service continuous temp	100°C	70°C	90°C	80°C	80°C	220°C	220°C
Ozone - UV	1	4	2	4	4	1	1
Resiliency	3	1	2	3	4	3	2
Acids	1	3	3	4	4	1	2
Caustics	1	2	2	3	3	2	2
Petrol	5	5	3	1	5	1	4
Aromatic Hydro-carbons	5	5	5	3	5	1	5
Chlorine	4	4	4	4	4	1	3
Water	1	1	4	2	2	3	2
Ketones	1	1	3	4	5	5	4
Alcohol	1	1	2	1	1	4	2
Esters	1	1	3	4	1	1	3
Oils	5	5	3	1	5	1	3
Ratings	1 = Excellent; 2 = Above Average; 3 = Average; 4 = Fair; 5 = Unsuitable						

Minimum Hose Bend Radius Recommendations



Hose	Wire Reinforced	Non-Wire Reinforced
Up to 50mm ID	6 Times	12 Times
Over 50mm ID	8 Times	12 Times

* Multiply hose OD by factor in chart

The bend radius is the radius of the arc through which a hose is bent. The minimum bend radius is the tightest arc in which a hose can be bent without kinking or otherwise damaging the hose.

Bending a hose to a tight radius imposes stresses on the structure of the hose which may cause a reduction in the performance, or in extreme cases, cause permanent damage to the hose.

The minimum bend radius that a hose will withstand depends upon many factors including the wall thickness, the presence of a wire helix, the type of reinforcing material and the loss of performance that can be tolerated.

It is recommended that the following guides be used to determine the minimum bend radius for the range of rubber hoses.

*** This figure should be taken as a general guide only. If unsure Contact Dixon™.**

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Basic Compounds in Rubber Hose

The following table gives the general properties of the most common rubber compounds used in hose today.
It is provided as a guide therefore generalised to some degrees.

Common Name	ASTM	Composition	General Properties
Butyl	iir	Sobutylene	Excellent weathering resistance: Low permeability to air and gas: Good physical properties: Heat resistant: Poor resistance to petroleum based fluids:
CPE	cm	Chlorinated Polyethylene Elastomer	Excellent ozone and weathering resistance: Excellent oil and aromatic resistance Excellent flame resistance:
Cross Linked Polyethylene	-	Cross Linked Polyethylene	Excellent resistance to a very wide range of solvents, chemicals, acids and oil (including aromatics)
EPDM	EPDM	Ethylene Propylene Diene Monomer	Excellent ozone, chemical and ageing characteristics: Poor resistance to petroleum based fluids: Very good steam resistance:
EPR	epm	Ethylene Propylene Copolymer	Excellent ozone, weathering, heat, chemical and ageing resistance: low permeability to water: Not oil resistant:
Hypalon	csm	Chloro-Sulphonated-Polyethylene	Excellent weathering, ozone and acid resistance: Good heat and abrasion resistance: fair resistance to petroleum based fluids:
Natural	nr	Isoprene Natural	Excellent physical properties: Very good abrasion resistance, Acid-resistance, Not oil resistant,
Neoprene (Perbunan-C)	cr	Chloroprene	Excellent weathering resistance: Flame retarding: good oil resistance: good physical properties:
Nitrile (Buna-N)	nbr	Nitrile-Butadiene	Excellent oil resistance: Moderate resistance to aromatics: Good physical properties
NVC/70	nbr/PVC	Nitrile Polyvinyl Chloride	Excellent oil and weathering resistance both for tube and cover:
Polyacrylic	acm	Acrylic Monomer	Excellent oil and tar resistance at high temperatures
SBR	sbr	Styrene-Butadiene	Good physical properties: Good abrasion resistance: Poor resistance to petroleum based fluids:
FKM	fpm	Hexafluoro-Propylene Vinilydene Fluoride	Excellent high temperature resistance in air and oil: Very good chemical resistance.

Water Discharge Table

This table is intended for general reference and general applicability only, and should not be relied upon as the sole or precise source of information available with respect to the subject covered. The user should also refer to and follow manufacturer's specific instructions and recommendations with regard to such information, where they exist.

Flow of water through 30 metre lengths of hose, Straight-Smooth Bore - litres per minute

PSI at Hose Inlet	Nominal Hose ID Diameters - Inch							
	1"	1¼"	1½"	2"	2½"	3"	4"	6"
20	98	178	288	609	1098	1772	3774	10959
30	121	220	356	757	1363	2203	4694	13639
40	144	257	416	886	1594	2574	5485	15933
50	163	291	469	999	1798	2903	6189	17973
60	178	322	519	1102	1984	3202	6829	19832
75	201	360	583	1245	2237	3615	7703	22372
100	235	424	681	1454	2612	4221	8998	26134
125	265	477	768	1639	2949	4762	10149	29481
150	291	526	848	1809	3252	5254	11197	32528
200	341	613	992	2112	3801	6136	13079	37998

Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restriction all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

Pressure Drop In Rubber Hoses - Water

The following tables of pressure drops and flow rates are based on experimental data and may be considered typical of most hoses. The data is based upon hoses laid out in a straight line and thus it must not be considered as an exact result that may be obtained at a given pressure. Variables such as hose fittings and bend increase the frictional losses and an estimate of their effect may be determined by adding an "equivalent length" to the hose length. Values of the equivalent length (Le) may be determined using the diameter (D) of the hose in the following relationships:

90° Swept Elbow - Le = 20D
90° Square Elbow - Le = 50D
45° Square Elbow - Le = 16D
Hose Coupling - Le = 05D

Pressure Drop (kPa per 100 metres) Water @ 20°C Through Hose

Flow Rate l/m	Hose Nominal Bore mm												
	12.5	16	19	25	32	38	40	50	64	75	80	100	125
25	1100	470	210	50	-	-	-	-	-	-	-	-	-
50	-	2440	770	200	90	30	-	-	-	-	-	-	-
100	-	-	2660	730	300	100	55	30	-	-	-	-	-
200	-	-	-	-	1030	405	285	95	25	-	-	-	-
300	-	-	-	-	-	900	650	210	65	20	-	-	-
400	-	-	-	-	-	-	1200	370	110	40	-	-	-
500	-	-	-	-	-	-	-	580	155	70	50	-	-
1000	-	-	-	-	-	-	-	-	575	230	180	55	-
2000	-	-	-	-	-	-	-	-	-	920	600	220	45
3000	-	-	-	-	-	-	-	-	-	2125	1400	490	100
4000	-	-	-	-	-	-	-	-	-	-	-	805	190
5000	-	-	-	-	-	-	-	-	-	-	-	1390	315

Note: (1) Pressure drop is directly proportioned to the length of hose.
(2) Friction is independent of pressure and proportional to velocity.

Flow Rate of Water through Hose

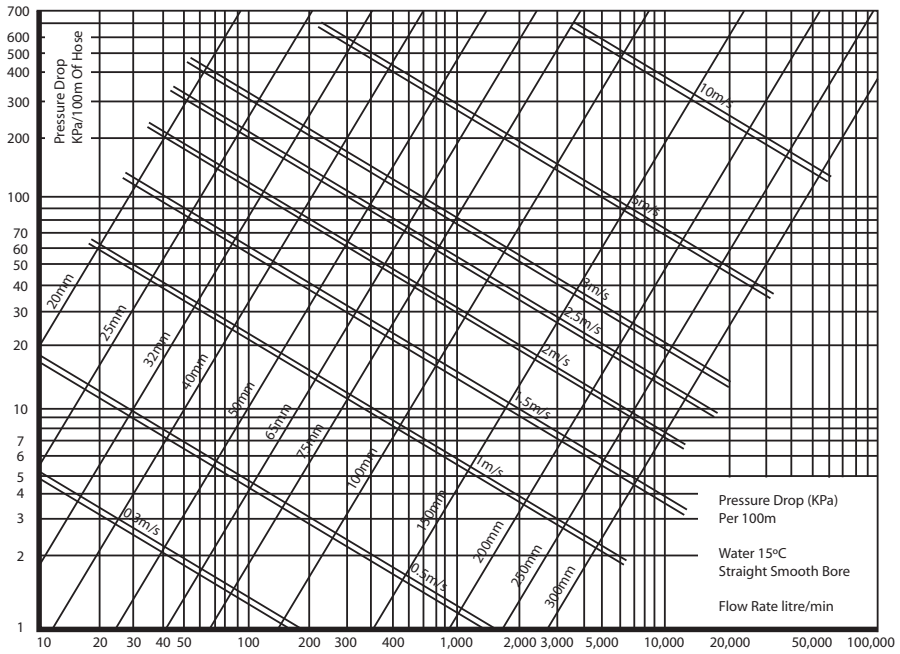
Volumetric Flowrate of Water Through 100m Hose (litre/minute)														
Inlet Pressure (kpa)	Hose Internal Diameter (mm)													
	12.5	16	20	25	32	38	40	50	64	75	80	100	150	200
150	15.5	31	48	102	181	299	359	639	1145	1701	2079	3969	11482	24239
200	18.5	35	57	117	215	352	408	741	1342	2126	2457	4631	13466	28870
300	24	42	71	157	272	438	499	922	1663	2717	3071	5670	16727	35749
400	29.5	49	82	178	317	510	582	1081	1950	3189	3662	6710	19609	41675
500	33	56	93	200	355	575	658	1221	2200	3544	4064	7560	22047	46967
600	36	62	102	219	397	635	730	1349	2430	3936	4408	8269	24334	51739
700	38	69	111	238	427	688	801	1467	2646	4253	4772	9025	26413	56228
800	41	73	120	257	464	737	862	1576	2835	4631	5198	9686	28634	60480
900	43	77	127	272	491	783	919	1686	3013	4938	5576	10348	30335	64260
1000	45	82	134	291	522	828	972	1788	3187	5198	5906	11009	32036	67946
1250	52	93	149	333	586	937	1111	2015	3595	5826	6804	12521	36052	76592

Pressure Drop in Rubber Hoses - Air

Pressure Drop of Air Through Rubber Hose								
Size mm	Cu/m of Free Air							
	0.5	1.0	1.25	1.5	2.0	2.75	3.5	4.25
12.5	249	855	1325	-	-	-	-	-
19	-	215	350	505	895	1725	2745	-
25	-	-	-	-	250	465	755	1100
32	-	-	-	-	80	100	175	285
38	-	-	-	-	-	45	75	135

Pressure Drop of Air Through Rubber Hose												
Size mm	Cu/m of Free Air											
	15	20	30	40	50	60	70	80	90	100	125	150
50	385	680	1530	2690	4230	-	-	-	-	-	-	-
64	160	270	565	1020	1630	2350	3170	4185	5270	-	-	-
76	-	-	215	330	520	745	1020	1335	1675	2035	3190	4590

Pressure Drop in Layflat Hoses



Chemical Resistance Chart for Rubber Hose

Key to Chemical Guide

EX - Recommended, little or no effect on tube compound, suitable for continuous service.
G - Recommended, minor effect on tube compound may be suitable for continuous service, suitable for intermittent service.
C - Questionable, moderate to severe effect on tube, may be suitable for limited applications.
X - Not recommended.
I - No data available, but not expected to perform better than rated compounds.

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross Linked Poly Ethylene	CPE
Acetaldehyde 50%	G	C	G	X`	C	C	X	EX	I
Acetic Acid-Glacial	G	C	G	C	X	G	C	EX	EX
Acetic Acid 30%	G	G	G	G	EX	G	G	EX	EX
Acetic Anhydride	C	EX	G	C	G	G	X	EX	EX
Acetone	G	G	C	X	C	C	X	EX	EX
Acetyl Chloride	X	X	X	X	X	X	EX	G	EX
Acetylene	G	G	G	EX	G	G	EX	EX	I
Adipic Acid	G	I	EX	EX	EX	EX	I	I	I
Aluminium Acetate	G	EX	EX	G	G	G	X	EX	EX
Aluminium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Aluminium Fluoride	G	EX	G	EX	EX	EX	EX	EX	I
Aluminium Nitrate	G	EX	EX	EX	EX	EX	EX	EX	EX
Aluminium Sulfate	G	EX	EX	EX	EX	EX	EX	EX	EX
Ammonia Anhydrous	G	G	X	G	EX	X	X	EX	EX
Ammonia Gas (cold)	G	EX	EX	EX	EX	EX	EX	X	EXI
Ammonia Gas (hot)	C	G	X	X	G	X	X	EX	I
Ammonium Carbonate	G	I	EX	X	EX	EX	I	I	EX
Ammonium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Ammonium Hydroxide	G	EX	X	X	EX	X	G	EX	EX
Ammonium Nitrate	G	EX	C	EX	EX	G	I	EX	I
Ammonium Nitrite	G	EX	EX	EX	EX	EX	I	EX	I
Ammonium Phosphate	G	EX	EX	EX	EX	EX	I	EX	EX
Ammonium Sulfate	G	EX	EX	EX	EX	EX	X	EX	EX
Amyl Acetate	X	X	X	X	X	X	X	EX	C
Amyl Alcohol	G	EX	G	G	G	G	G	EX	EX
Aniline	G	C	X	X	X	X	C	EX	G
Aniline Dynes	G	G	G	X	G	G	G	EX	G
Aniline Hydrochloride	C	X	G	G	X	X	G	EX	I
Animal Fats	C	G	X	EX	G	X	EX	EX	EX
Aqua Regia	X	EX	X	X	X	X	G	X	G
Arsenic Acid	G	EX	G	EX	EX	EX	EX	EX	EX
Arsenic Trichloride	X	I	X	EX	EX	I	I	X	I
Asphalt	I	G	X	G	G	X	EX	X	I
Barium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Barium Sulfate	G	EX	EX	EX	EX	EX	EX	EX	EX
Barium Sulphide	G	EX	EX	EX	EX	G	EX	EX	EX
Beer	G	EX	EX	EX	EX	EX	EX	I	EX
Benzene	X	X	X	X	X	X	EX	EX	X
Benzyl Alcohol	G	G	X	X	G	X	EX	EX	I
Benzyl Benzoate	C	X	X	X	X	X	X	EX	I
Benzyl Chloride	X	X	X	X	X	X	EX	EX	X
Benzoic Acid	X	X	X	C	X	X	EX	EX	EX
Bordeaux Mixture	G	EX	G	G	G	G	EX	EX	I
Boric Acid	G	EX	EX	EX	EX	EX	EX	EX	EX
Brine	G	EX	EX	EX	EX	EX	EX	EX	EX
Bromine - Anhydrous	X	X	X	X	X	X	EX	X	I
Bromine Trifluoride	X	X	X	X	X	X	X	X	I
Bromine Water	G	EX	X	X	X	X	EX	X	I
Bromotoluene	X	X	X	X	X	X	EX	C	X
Bunker Oil	X	X	X	EX	X	X	EX	EX	I

Chemical Resistance Chart for Rubber Hose

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross Linked Poly Ethylene	CPE
Butane	X	G	X	EX	EX	X	EX	EX	G
Butadiene	X	C	X	X	X	X	EX	EX	I
Butter	G	G	X	EX	G	X	EX	EX	G
Butyl Acetate	X	X	X	X	X	X	X	EX	G
Butyl Alcohol	C	EX	EX	EX	EX	EX	EX	EX	EX
Butyl Amine	G	X	X	C	X	X	X	I	G
Butyl Benzoate	C	X	C	X	X	G	EX	EX	I
Butyl Cellosolve	G	G	X	C	C	X	X	EX	EX
Butyl Stearate	X	X	X	G	X	X	EX	EX	G
Butyraldehyde	C	X	X	X	C	X	X	EX	G
Calcium Acetate	G	G	EX	G	G	X	X	EX	EX
Calcium Bisulfite	X	EX	X	X	EX	X	EX	EX	EX
Calcium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Calcium Hydroxide	G	EX	EX	EX	EX	EX	EX	EX	EX
Calcium Hypochlorite	G	EX	C	G	C	C	EX	C	EX
Calcium Nitrate		EX	EX	EX	EX	EX	EX	EX	EX
Calcium Sulfide	G	EX	G	EX	EX	G	EX	EX	EX
Carbitol	C	G	G	G	G	G	G	EX	EX
Carbonic Acid (phenol)	C	X	X	X	C	X	EX	EX	EX
Carbon Bisulfide	X	X	X	C	X	X	EX	I	C
Carbon Dioxide	C	G	G	EX	G	G	EX	EX	I
Carbonic Acid	G	EX	EX	G	EX	G	EX	EX	EX
Carbon Monoxide	G	G	G	EX	G	G	EX	EX	I
Carbon Tetrachloride	X	X	X	C	X	X	EX	EX	X
Castor Oil	C	G	EX	EX	EX	EX	EX	EX	EX
Cellosolve	C	X	X	X	X	X	C	EX	I
Cellosolve Acetate	C	X	X	X	X	X	X	EX	I
Chlorine (dry)	X	G	X	X	C	X	EX	C	I
Chlorine (wet)	X	C	X	X	C	X	EX	C	I
Chlorine Dioxide	X	C	X	X	X	X	EX	C	I
Chloroacetone	G	C	X	X	C	X	X	EX	X
Chloroacetic Acid	G	EX	X	X	X	X	X	EX	I
Chlorobenzene	X	X	X	X	X	X	EX	EX	X
Chlorobutadiene	X	X	X	X	X	X	EX	EX	I
Chloroform	X	X	X	X	X	X	EX	G	X
Chlorotoluene	X	X	X	X	X	X	EX	G	X
Chrome Plating Solutions	C	X	X	X	X	X	EX	I	I
Chromic Acid	G	G	X	X	C	X	EX	EX	EX
Citric Acid	G	EX	EX	EX	EX	EX	EX	EX	I
Cobalt	G	EX	EX	EX	EX	EX	EX	EX	I
Coconut Oil	X	C	X	EX	G	X	EX	EX	I
Cod Liver Oil	G	G	X	EX	G	X	EX	EX	I
Coke Oven Gas	X	C	X	X	X	X	EX	EX	I
Copper Acetate	G	G	EX	G	G	X	X	EX	I
Copper Chloride	G	G	EX	EX	G	EX	EX	EX	G
Copper Cyanide	G	EX	EX	EX	EX	EX	EX	EX	I
Copper Sulfate	G	EX	G	EX	EX	G	EX	EX	EX
Corn Oil	X	G	X	EX	C	X	EX	EX	G
Cottonseed Oil	C	G	X	EX	G	X	EX	EX	G
Creosote (coal tar)	X	X	X	EX	G	X	EX	EX	I
Cresol	X	X	X	X	C	X	EX	EX	EX
Cresylic Acid	X	X	X	X	C	X	EX	EX	I
Cumene	X	X	X	X	X	X	EX	EX	C
Cyclohexane	X	X	X	EX	C	X	EX	EX	EX
Cyclohexanol	X	G	X	C	EX	X	EX	EX	EX
Cyclohexanone	G	X	X	X	X	X	X	EX	G
P-Cymene	X	X	X	X	X	X	EX	EX	X
Decalin	X	X	X	X	X	X	EX	EX	X
Denatured Alcohol	G	EX	EX	EX	EX	EX	EX	EX	EX
Detergent Solution (non-hydrocarbon)	G	G	G	EX	G	G	EX	EX	G
Diacetone	G	X	X	X	X	X	X	EX	I

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Chemical Resistance Chart for Rubber Hose

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross Linked Poly Ethylene	CPE
Diacetone Alcohol	G	G	X	X	G	X	X	EX	EX
Dibenzyl Ether	C	X	X	X	C	X	X	EX	C
Dibutyl Amine	G	X	X	X	X	X	X	EX	EX
Dibutyl Ether	X	X	X	X	C	X	C	EX	EX
Dibutyl Phthalate	C	X	X	X	X	X	C	EX	C
Dibutyl Sebecate	C	X	X	X	X	X	G	EX	G
Dichlorobenzene	X	X	X	X	X	X	EX	EX	X
Diesel Oil	X	C	X	EX	C	X	EX	EX	I
Diethlamine	G	C	G	G	G	G	X	EX	G
Diethalmine Benzene	X	X	X	X	X	X	EX	EX	X
Diethyl Either	X	C	X	X	C	X	X	EX	EX
Diethylene Glycol	G	EX	EX	EX	EX	EX	EX	EX	EX
Diethyl Sebecate	C	G	X	G	X	X	G	EX	G
Diisobutylene	G	X	X	G	X	X	EX	EX	I
Diisopropyl Benzene	X	X	X	X	X	X	EX	EX	I
Disopropyl Ketone	G	X	X	X	X	X	X	EX	I
Dimethyl Formamide	G	X	X	G	C	X	X	EX	I
Dimethyl Phthalate	G	X	X	X	X	X	G	EX	EX
Dinitrotoluene	X	X	X	X	X	X	EX	EX	X
Dioctyl Phthalate	C	X	X	C	X	X	G	EX	C
Dioctyl Sebecate	C	X	X	X	X	X	G	EX	X
Dipentene	X	X	X	G	X	X	EX	EX	G
Piphenyl (phenylbenzene)	X	X	X	X	X	X	EX	EX	I
Dowtherm Oil	X	X	X	X	X	X	EX	EX	C
Dry Cleaning Fluids	X	X	X	C	X	X	EX	I	I
Ethane	X	G	X	EX	G	X	EX	EX	I
Ethanolamine	G	C	G	G	G	G	X	EX	EX
Ethyl Acetate	G	X	X	X	C	X	X	EX	G
Ethyl Acetoacetate	G	X	C	X	C	C	X	EX	EX
Ethyl Alcohol	G	EX	EX	EX	EX	EX	C	EX	EX
Ethyl Benzene	X	X	X	X	X	X	EX	EX	X
Ethyl Benzoate	G	X	EX	X	X	EX	EX	G	X
Ethyl Cellulose	C	G	G	G	G	G	X	EX	I
Ethyl Chloride	X	X	X	EX	X	X	EX	EX	I
Ethyl Ether	X	X	X	C	C	X	X	EX	EX
Ethyl Formate	C	G	X	X	G	X	EX	EX	EX
Ethyl Pentochloro-benzene	X	X	X	X	X	X	EX	X	X
Ethyl Silicate	G	G	G	EX	EX	G	EX	EX	EX
Ethylene	C	-	C	EX	C	C	EX	I	I
Ethylene Chloride	X	X	X	X	X	X	EX	EX	I
Ethylene Chlorohydrin	C	G	G	X	G	G	EX	EX	I
Ethylene Diamine	G	G	EX	EX	EX	G	X	EX	G
Ethylene Dichloride	X	X	X	X	X	X	EX	EX	C
Ethylene Glycol	G	EX	EX	EX	EX	EX	EX	EX	EX
Ethylene Trichloride	X	X	X	X	X	X	EX	EX	I
Ferric Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Ferric Nitrate	G	EX	EX	EX	EX	EX	EX	EX	EX
Ferric Sulfate	G	EX	EX	EX	EX	EX	EX	EX	EX
Fish Oil	X	I	X	EX	X	X	EX	EX	I
Fluoroboric Acid	G	EX	EX	EX	EX	EX	I	EX	EX
Fluorobenzene	X	I	X	X	X	X	EX	EX	I
Fluorolube	G	EX	G	EX	G	C	G	I	I
Fluosilic Acid	C	EX	G	EX	G	C	EX	G	EX
Formaldehyde	G	EX	G	C	G	G	X	EX	EX
Formic Acid	G	X	G	G	EX	EX	C	G	EX
Freon 12	C	EX	G	EX	EX	EX	G	EX	EX
Freon 13	EX	EX	EX	EX	EX	EX	EX	EX	EX
Freon 21	X	X	X	EX	X	X	X	EX	X
Freon 22	G	EX	G	EX	EX	EX	X	EX	EX
Freon 114	G	EX	EX	EX	EX	EX	G	EX	I
Fuel Oil	X	G	X	EX	G	X	EX	EX	EX
Furtural	G	C	X	X	C	X	X	EX	EX
Gallic Acid	G	G	EX	G	G	G	EX	EX	I

Chemical Resistance Chart for Rubber Hose

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross Linked Poly Ethylene	CPE
Gasoline	X	C	X	EX	C	X	EX	EX	I
Gelatin	G	EX	EX	EX	EX	EX	EX	EX	I
Glucose	G	EX	EX	EX	EX	EX	EX	EX	I
Glue	G	EX	G	EX	EX	G	EX	EX	EX
Glicerine	G	EX	EX	EX	EX	EX	EX	EX	EX
Glycols	G	EX	EX	EX	EX	EX	EX	EX	I
Green Sulfate liquor	G	G	G	G	G	G	EX	EX	G
Hexane	X	G	X	EX	G	X	EX	G	G
Helix Alcohol	X	G	G	EX	G	G	EX	EX	EX
Hydraulic Alcohol	X	G	X	EX	G	X	EX	EX	EX
Hydrobromic Acid	G	EX	EX	X	X	X	EX	EX	EX
Hydrobromic Acid (hot 37%)	X	X	X	X	X	X	G	EX	I
Hydrochloric Acid	G	EX	G	C	G	G	EX	EX	EX
Hydrocyanic Acid	G	EX	G	G	G	G	EX	C	I
Hydrofluoric Acid (conc. hot)	G	C	X	X	X	X	C	EX	I
Hydrofluoric Acid (conc. cold)	G	EX	X	X	X	X	EX	EX	EX
Hydrofluoric Acid (anhydrous)	G	EX	X	X	X	X	X	EX	I
Hydrofluosilic Acid	C	EX	G	EX	G	C	EX	I	EX
Hydrogen Gas	G	EX	G	EX	EX	EX	EX	EX	EX
Iodine	X	EX	X	X	X	X	X	EX	EX
Isobutyl Alcohol	G	EX	EX	G	EX	G	EX	EX	EX
Isoctane	X	G	X	EX	G	X	EX	EX	G
Isopropyl Acetate	C	X	X	X	X	X	X	EX	I
Isopropyl Alcohol	G	EX	EX	G	G	G	EX	EX	EX
Isopropyl Chloride	X	X	X	X	X	X	EX	EX	I
Isopropyl Ether	X	C	X	G	C	X	X	EX	I
Kerosene	X	C	X	EX	G	X	EX	EX	EX
Lactic Acid (cold)	G	EX	EX	EX	EX	EX	EX	EX	I
Lactic Acid (hot)	G	EX	X	X	X	X	EX	EX	I
Lard	C	X	X	EX	G	X	EX	EX	EX
Lavender Oil	X	X	X	G	X	X	EX	G	I
Lead Acetate	G	X	EX	G	EX	X	X	EX	EX
Lead Nitrate	G	EX	EX	EX	EX	I	EX	EX	EX
Lead Sulfamate	G	EX	G	G	EX	G	EX	EX	I
Linseed Oil	X	G	X	EX	G	X	EX	EX	EX
Liquefied Petroleum Gas	X	G	X	EX	G	X	EX	EX	G
Lubricating Oils	X	G	X	EX	G	X	EX	EX	EX
Lye	G	EX	G	G	G	G	G	I	EX
Magnesium Chl	G	EX	EX	EX	EX	EX	EX	EX	EX
Magnesium Hydroxide	G	EX	G	G	EX	G	EX	EX	EX
Magnesium Sulfate	G	EX	G	EX	EX	G	EX	EX	EX
Maleic Acid	G	X	C	X	C	C	EX	G	I
Maleic Anhydride	C	EX	C	X	C	C	X	I	I
Malic Acid	G	G	C	EX	C	C	EX	I	I
Mercury	G	EX	EX	EX	EX	EX	EX	EX	EX
Mesityl Oxide	C	X	X	X	X	X	X	EX	G
Methane	X	G	X	EX	G	X	G	EX	G
Methyl Acetate	G	X	C	X	G	C	X	EX	EX
Methyl Alcohol	G	EX	EX	EX	EX	EX	X	EX	EX
Methyl Bromide	C	X	X	G	X	X	EX	I	I
Methyl Butyl Ketone (propylacetone)	G	X	X	X	X	X	X	EX	I
Methyl Cellosolve	C	G	X	G	G	X	X	EX	EX
Methyl Chloride	X	X	X	X	X	X	EX	G	X
Methyl Ethyl Ketone (MEK)	C	X	X	X	C	X	X	EX	G
Methyl Isobutyl Ketone	C	X	X	X	X	X	X	EX	G
Methyl Oleate	C	X	X	X	X	X	G	EX	I
Milk	G	EX	EX	EX	EX	EX	EX	EX	EX
Mineral Oil	X	G	X	EX	G	X	EX	EX	EX

Chemical Resistance Chart for Rubber Hose

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross LInked Poly Ethylene	CPE
Monochlorobenzen	X	X	X	X	X	X	EX	G	I
Monoethanolamine	G	X	G	X	X	G	X	EX	I
Monomethylether	X	G	X	EX	C	X	EX	I	G
Monovinyl Acetylene	G	G	G	EX	G	G	EX	I	G
Naphtha	X	X	X	G	C	X	EX	EX	EX
Naphthalene	X	X	X	X	X	X	EX	EX	EX
Napthenic Acid	X	X	X	G	X	X	EX	EX	EX
Natural Gas	X	EX	G	EX	EX	G	EX	EX	EX
Nickel Acetate	G	X	EX	G	G	X	X	EX	I
Nickel Choride	G	EX	EX	EX	EX	EX	EX	EX	EX
Nickel Sulfate	G	EX	G	EX	EX	G	EX	EX	EX
Nitric Acid (conc)	X	G	X	X	X	X	C	G	X
Nitric Acid (dilute)	X	EX	X	X	G	X	EX	EX	EX
Nitrobenzene	G	X	X	X	X	X	G	EX	C
Nitroethane	C	G	G	X	C	G	X	EX	EX
Nitrogen	G	EX	EX	EX	EX	EX	EX	EX	EX
Octachlorofuluene	X	X	X	X	X	X	EX	I	X
Octyl Alcohol	X	G	G	G	EX	G	EX	EX	EX
Oleic Acid	X	C	X	C	C	X	G	EX	EX
Oleum	G	G	X	G	C	X	EX	I	I
Olive Oil	C	G	X	EX	G	X	EX	EX	G
O-Dichlorobenzene	X	X	X	X	X	-	EX	I	X
Oxalic Acid	G	G	G	G	G	G	EX	EX	EX
Oxygen Cold	G	EX	G	G	EX	G	EX	EX	EX
Ozone	G	EX	X	X	C	X	EX	EX	EX
Palmitric Acid	C	C	G	EX	G	G	EX	G	EX
Peanut Oil	X	G	X	EX	C	X	EX	EX	EX
Perchloric Acid	C	G	X	X	G	X	EX	EX	I
Perchloroethylene	X	X	X	G	X	X	EX	EX	X
Petroleum	X	G	X	EX	G	X	EX	EX	EX
Phenol (carbolic Acid)	G	G	X	X	C	I	EX	EX	EX
Phenylbenzene	X	X	X	X	X	X	EX	I	X
Phenyl Hydrazine	C	X	EX	X	X	G	EX	EX	X
Phorone	X	X	X	X	X	X	X	EX	I
Phosphoric Acid 20%	G	EX	G	G	G	G	EX	EX	EX
Phosphoric Acid 80%	G	G	C	X	G	C	EX	EX	EX
Phosphorus Trichloride	G	X	X	X	X	X	EX	I	X
Picric Acid	G	G	G	G	EX	G	EX	EX	G
Pine Oil	X	X	X	EX	X	X	EX	EX	EX
Polyvinyl Acetate Emulsion	G	G	G	I	G	X	EX	I	I
Potassium Acetate	G	EX	EX	G	G	X	X	EX	EX
Potassium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Potassium Cupro Cyanide	EX	EX	EX	EX	EX	EX	EX	EX	EX
Potassium Cyanide	G	EX	EX	EX	EX	EX	EX	EX	EX
Potassium Dichromate	G	EX	G	EX	EX	G	EX	G	EX
Potassium Hydroxide	G	EX	G	G	G	G	X	EX	EX
Potassium Nitrate	G	EX	EX	EX	EX	EX	EX	EX	EX
Potassium Sulfate	G	G	G	EX	EX	EX	EX	EX	EX
Propane	X	G	X	EX	G	X	EX	EX	G
Propyl Acetate	C	X	X	X	X	X	X	EX	G
Propyl Alcohol	G	EX	EX	EX	EX	EX	EX	EX	EX
Propyl Nitrate	G	G	X	X	X	X	X	EX	G
Propylene	X	X	X	X	X	X	EX	EX	EX
Pyranol (transformer oil)	X	C	X	EX	G	X	EX	EX	EX
Pyridine	G	G	X	X	X	X	X	EX	I
Sal Ammoniac	G	EX	EX	EX	EX	EX	EX	EX	EX
Salicyclic Acid	G	-	EX	G	EX	G	EX	EX	EX
Salt Water	G	EX	EX	EX	EX	EX	EX	EX	EX
Sewerage	G	EX	G	EX	G	G	EX	EX	EX
Silicone Greases	G	EX	EX	EX	EX	EX	EX	EX	EX

S

Chemical Resistance Chart for Rubber Hose

Chemical	EPDM	Hypalon	Natural	Nitrile	Chloro-prene	SBR	FKM	Cross Linked Poly Ethylene	CPE
Silicone Oils	G	EX	EX	EX	EX	EX	EX	EX	EX
Silver Nitrate	G	EX	EX	G	EX	EX	EX	EX	EX
Skydrol 500	G	X	X	X	X	X	X	EX	G
Skydrol 7000	G	X	X	X	X	X	G	EX	G
Soap Solutions	G	EX	G	EX	G	EX	EX	EX	EX
Soda Ash	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Acetate	G	EX	EX	G	G	X	X	EX	EX
Sodium Bicarbonate	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Bisulphate	G	EX	EX	EX	EX	G	EX	EX	EX
Sodium Borate	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Cyanide	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Hydroxide	G	EX	EX	G	EX	EX	G	EX	EX
Sodium Hypochlorite	C	EX	X	G	EX	X	EX	G	EX
Sodium Metaphospate	G	G	EX	EX	G	EX	EX	EX	EX
Sodium Nitrate	G	EX	G	G	G	EX	I	EX	EX
Sodium Perborate	G	G	G	G	G	G	EX	EX	I
Sodium Peroxide	G	G	G	G	G	G	EX	EX	G
Sodium Phosphate	G	EX	EX	EX	G	EX	EX	EX	EX
Sodium Silicate	G	EX	EX	EX	EX	EX	EX	EX	EX
Sodium Sulfate	G	EX	G	EX	EX	G	EX	EX	EX
Sodium Thiosulfate	G	EX	G	G	EX	G	EX	EX	EX
Soybean Oil	X	C	X	EX	G	X	EX	EX	I
Stannic Chloride	G	EX	EX	EX	G	EX	EX	EX	EX
Steam	G	X	X	X	C	X	X	X	X
Stearic Acid	G	G	G	G	G	G	I	EX	EX
Styrene	X	X	X	X	X	X	G	G	C
Sucrose Solution	G	G	EX	EX	G	EX	EX	EX	EX
Sulfur	G	EX	X	X	EX	X	EX	EX	I
Sulfur Chloride	X	G	X	C	C	X	EX	EX	I
Sulfur Dioxide	G	G	G	X	X	G	EX	EX	I
Sulfuric Trioxide	C	X	G	X	X	G	EX	G	X
Sulfuric Acid 10%	G	EX	C	C	G	C	EX	EX	EX
Sulfuric Acid 10%-75%	G	C	X	X	X	X	EX	EX	X
Sulfurous Acid	G	EX	G	G	G	G	EX	EX	EX
Tannic Acid	G	EX	EX	EX	EX	EX	EX	EX	EX
Tar Bituminous	X	X	X	G	C	X	EX	I	I
Tartaric Acid	C	EX	C	EX	G	X	EX	EX	EX
Terpineol	X	X	X	G	X	X	EX	G	EX
Tertiary Butyl Alcohol	G	G	G	G	G	G	EX	EX	G
Tetrachloroethylene	X	X	X	X	X	X	EX	EX	C
Tetraethyl Lead	X	X	X	G	G	X	EX	I	I
Toluene	X	X	X	X	X	X	EX	EX	C
Transformer Oil	X	C	X	EX	G	X	EX	EX	EX
Transmission Fluid	X	G	X	EX	G	X	EX	EX	EX
Trichloroethane	X	X	X	X	X	X	EX	EX	C
Trichloroacetic Acid	C	X	C	G	X	G	C	EX	I
Trichloroethylene	X	X	X	X	X	X	EX	EX	X
Tricresyl Phosphate	X	X	X	X	X	C	EX	EX	EX
Triethanol Amine	G	G	G	G	EX	G	X	EX	EX
Trinitrotoluene	X	G	X	X	G	X	EX	EX	G
Turbine Oil	X	X	X	G	X	X	EX	EX	I
Turpentine	X	X	X	EX	X	X	EX	EX	I
Vegetable Oils	X	G	X	EX	C	X	EX	EX	EX
Vinegar	G	EX	G	G	G	G	EX	EX	EX
Vinyl Chloride	X	X	X	X	X	X	EX	EX	C
Water	G	EX	EX	EX	EX	EX	EX	EX	EX
Whiskey, Wines	G	EX	EX	EX	EX	EX	EX	EX	EX
White Oil	X	X	X	EX	G	X	EX	EX	EX
Wood Oil	X	C	X	EX	G	X	EX	EX	EX
Xylene	X	X	X	X	X	X	EX	EX	EX
Zinc Chloride	G	EX	EX	EX	EX	EX	EX	EX	EX
Zinc Sulfate	G	EX	G	EX	EX	G	EX	EX	EX

PVC Hose Chemical Resistance Specifications

Plasticisers are incorporated in PVC compounds so as to confer flexibility and softness. Plasticised compounds can cover a very wide range of flexibility and softness and will also differ in other respects eg tensile strength and resilience, according to the type and/or amount of plasticiser/s used. For example, the type of plasticiser used will affect chemical resistance, but in this note it has been assumed that a commonly used, fairly resistant plasticiser such as dioctyl phthalate (DOP) would be present.
The amount of plasticiser incorporated will also effect the chemical resistance, an increase in plasticiser content leading to a deterioration in chemical resistance because the plasticiser is less resistant to attack than is the PVC. The chemical resistance to be expected from plasticised PVC when D.O.P is used as the plasticiser is summarised in the following paragraphs.

Acids and Alkalis
Dilute acids and alkalis have little effect at room temperature, but at elevated temperatures some hydrolysis and extraction of plasticiser may occur. Concentrated acids and alkalis hydrolyse plasticisers slowly in the cold and more rapidly when heated. The main effect of organic liquids on plasticised PVC is to extract the plasticiser and this results in some hardening, particularly when the PVC is removed from contact with the liquid. The compound may become rigid and less tough.
Most organic solvents will extract plasticiser and give rise to these effects, but with aromatic and chlorinated hydrocarbons, aliphatic and cyclic ethers, this plasticiser extraction is accompanied by a softening of the PVC and the overall effect is difficult to predict. With certain solvents too, plasticiser extracted is replaced by the solvent so that the compound remains flexible provided it remains in contact with that liquid. On allowing the solvent to evaporate the material will stiffen and will not soften on re-immersion.
The undesirable effects previously mentioned which can occur with PVC compounds containing a monomeric ester type plasticiser, such as DOP, can be prevented or reduced by the use instead of a polyermic type of plasticiser which affords a higher resistance to extraction. Such plasticisers include polypropylene adipate (PPA) and polypropylene sebacate (PPS), the former being of value in contact with oils and fuels and the latter showing a high degree of resistance to soap and detergent solutions.

The symbols used to denote performance are as follows:

1 - Satisfactory.
2 - Recommended for the service and conditions for Oil hoses.
3 - The material may be considered for use when alternative materials are unsatisfactory, and when limited life is acceptable.
4 - When PVC is to be used with such chemicals, full-scale trials under realistic conditions are particularly necessary.
5 - Unsatisfactory.

For materials which have been rated as having Limited Life or Unsatisfactory, the material should only be considered for use when alternative materials are unsatisfactory and where limited life is accepted. When PVC is to be used with such chemicals, full scale trials under realistic conditions are particularly necessary.
It may be safely assumed that chemical resistance decreases with both increasing temperature and with increasing concentration of reagent, and that the reverse is also true. No valid assumptions can be made, however, if the temperature and concentration move in compensating directions.
The following Chemical Resistance Chart is not intended to be complete. Chemicals missing from this chart does not indicate unsuitability.

Refer to pages 603-608 for Chemical Resistance Chart

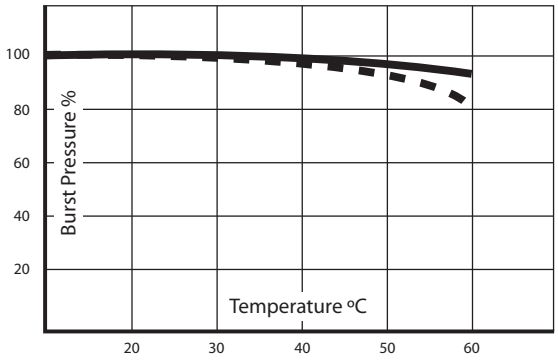
Temperature Chart for Layflat Hoses

TEMPERATURE CHART FOR LAYFLAT HOSES

PVC is a thermoplastic material and therefore, burst pressure varies with temperature.
The graph shows variation in burst temperature with temperature for the different types of Layflat hoses.

High Pressure Brick Red, Green Dewatering

Low Pressure Blue



S

Chemical Resistance Chart For PVC Hose

The Symbols used to denote performance are as follows

1 - Satisfactory.
2 - Recommended for the service and conditions for Oil hoses.
3 - The material may be considered for use when alternative materials are unsatisfactory, and when limited life is acceptable.
4 - When PVC is to be used with such chemicals, full-scale trials under realistic conditions are particularly necessary.
5 - Unsatisfactory

Chemical	Concentration	Conditions	
		20°C	60°C
Acetic Acid	10%	1	3
	60%	1	3
	Glacial	5	5
Acetic anhydride		5	5
Acetone	Traces	5	5
	100%	5	5
Adipic acid		4	4
Alcohol allyl		5	5
Alcohol ethyl	40% w/w water	1	4
	100%	1	4
Alcohol isopropyl		1	4
Alcohol methyl	6% aq. solution	1	1
	100%	3	4
Allyl chloride		5	5
Aluminium salts		1	1
Ammonia	s.g. = 0.88 aq. solution	1	5
	Dry gas	4	4
	Liquid	4	4
Ammonium hydroxide		1	4
Ammonium salts		1	1
Ammonium sulfide		1	5
Aniline		5	5
Animal oil		1	4
Barium salts		1	1
Beer		1	4
Benzaldehyde	Traces	5	5
	100%	5	5
Benzene		5	5
Borax		1	4
Brine		1	1
Bromine	Gas, traces	5	5
	100% dry gas	5	5
	Liquid	5	5
Butane		4	4
Butanol		1	4
Butyl acetate		5	5
Butyric acid	20% aq. solution	1	4
	Concentrate	5	5
Calcium hydroxide		1	4
Calcium hypochlorite		1	4
Calcium salts		1	1
Carbon dioxide		1	1
Carbon disulphide		5	5
Carbon monoxide		1	1
Carbon tetrachloride		5	5
Casein		1	1
Chlorine water	Saturated solution	3	5
Chlorobenzene		5	5

Chemical	Concentration	Conditions	
		20°C	60°C
Chlorine	10% (dry gas)	4	4
	100% (dry gas)	4	4
	10% (most gas)	4	4
Chloroform		5	5
Chlorosulfonic acid		5	5
Chromic acid	Plating solution	5	5
	Conc	4	4
Citric acid		1	4
Copper salts		1	1
Cucloexanol		5	5
Cycloexanone		5	5
Detergents, synthetic	All concentrates	1	4
Developers, photographic		1	1
Dextrose		1	1
Dichlorethylene		5	5
Dichlorobenzene		5	5
Diesel oil		2	2
Diethyl ether		5	5
Dimethylamine		4	4
Emulsifiers	All concentrates	1	1
Emulsions, photographic		1	1
Ether		5	5
Ethyl acetate		5	5
Ethylene dichloride		5	5
Ethylene glycol		1	4
Fatty acids		4	4
Ferric salts		1	1
Fixing solution, photo-graphic		1	1
Fluorine		5	5
Formaldehyde	40% w/w in water	1	4
Formic acid	40%	4	4
	50%	3	5
	100%	5	5
Glucose		1	1
Glycerine		1	4
Grape sugar		1	1
Hydrochloric acid	10% aq. solution	1	1
	22%	1	1
	Conc.	1	3
	4% aq. solution	1	
Hydrofluoric acid	40% aq. solution	1	4
	60% aq. solution	5	5
	Concentrate	5	5
Hydrogen		1	1
Hydrogen bromide anhydrous		1	4
Hydrogen chloride anhydrous		1	4
Hydrogen fluoride		1	4

Chemical Resistance Chart For PVC Hose

Chemical	Concentration	Conditions	
		20°C	60°C
Hydrogen peroxide	3% (10 vol)	1	4
	12% (40 vol)	1	4
	30% (100 vol)	1	4
	90% and above	1	4
Hydrogen sulphite		1	4
Iodine	Solution in potassium	4	4
	Iodide	5	5
Lacquer solvents		3	5
Lactic acid	10%	1	4
	100%	5	5
Lauric acid		1	4
Lauryl alcohol		1	1
Leads salts		1	1
Magnesium salts		1	1
Manganese sulphate	Concentrate solution	1	1
Mercuric chloride		5	5
Methyl chloride		5	5
Methyl ethyl ketone		5	5
Methylene chloride		5	5
Milk		1	4
Mineral oils		2	2
Mixed acids (sulphuric/nitiric)	Various proportions	4	5
Molasses		1	1
Naphtha		5	5
Naphthalene		5	5
Nickel salts		1	1
Nitric acid	10%	1	4
	25%	1	4
	50%	1	3
	70%	3	5
	95%	5	5
Nitrobenzene		5	5
Nitrogen fertilizers		1	4
Nitrous fumes	Moist	4	5
Oleic acid		1	4
Oxalic acid		1	4
Oxygen		1	1
Ozone		1	4
Palmitic acid		1	4
Paraffin		3	4
Petrol		2	2
Petrol benzene mixture	80:20	5	5
Phenol		4	5
Phosphoric acid	20% aq. solution	1	1
	30% aq. solution	1	1
Phosphoric developers		1	1
Photographic emulsions		1	1
Photo fixing solution		1	1

Chemical	Concentration	Conditions	
		20°C	60°C
Picric acid	1% w/w in water	1	1
	10% w/w in alcohol	1	4
	1% aq. solution	1	1
Potassium hydroxide	10% aq solution	1	1
	conc. aq. solution	1	5
Potassium salts		1	1
Propane		2	2
Propylene dichloride		5	5
Salicylic acid		4	4
Sea water		1	1
Soap solution		1	4
Sodium hydroxide	1% aq. solution	1	4
	10% aq. solution	1	3
	40% aq. solution	1	5
	Conc. aq. solution	1	5
Sodium hypochlorite	15% act. cl	1	3
Sodium salts		1	1
Sulphur dioxide	Dry	1	1
	Moist	4	5
	Liquid	4	5
Sulphuric acid	10%	1	1
	45%	1	1
	50%	1	3
	60%	3	3
	98%	5	5
	Fuming	5	5
Sulphurous acid	30%	1	4
Tallow		1	4
Tannic acid		1	4
Tanning extracts		1	4
Tartaric acids		1	4
Tetraethyl lead		1	4
Tetrahydrofuran		5	5
Tetralin		5	5
Toluene		5	5
Transformer oil		2	5
Trichloroethane		5	5
Triethanolamine		1	1
Trichloroethylene		5	5
Triethylamine		4	4
Turpentine		4	4
Urea		1	4
Vegetable oil		1	4
Vinegar		1	4
Vinyl acetate		5	5
Water		1	1
Wetting agents		1	1
Wines and spirits	All concentrates	1	4
Xylene		5	5
Zinc salts		1	1

Corrosion Resistance of Coupling Material

Ratings

Metal:

1 Excellent
2 Good
3 Fair
X Not Recommended
– Contact Dixon™

Non-Metal:

A Acceptable
X Not Recommended
– Contact Dixon™

Gasket/Seal Material:

T PTFE
V FKM
E E.P.D.M., E.P.R.
N Neoprene
B Buna N

Caution:

The following data has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

Note:

Ratings given are based at 21°C. Chemical compatibility varies greatly with temperature. For applications at temperatures other than 21°C, contact Dixon™ for recommendations.

Gasket/Seal Materials are not necessarily listed in order of preference.
Chemical Resistance of a material does not necessarily indicate the suitability of a fitting in a given application due to variables such as improper clamp and coupling application, special hose construction, gasket material, etc.

Special caution should be taken when handling hazardous materials.

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Acetate Solvents (Crude)	1	X	X	1	1	2	1	1	A	X	T
Acetate Solvents (Pure)	1	1	1	1	1	1	1	1	A	X	T
Acetic Acid (80%)	3	X	X	1	1	1	1	1	X	X	TEVNB
Acetic Acid (50%)	2	X	X	1	1	2	2	1	X	X	TEVNB
Acetic Acid (20%)	2	X	X	1	1	2	2	1	X	X	TEVNB
Acetic Acid (10%)	2	X	2	1	1	2	1	1	X	X	TEVNB
Acetic Anhydride	2	X	2	1	1	2	2	2	X	X	TNB
Acetone	1	2	2	1	1	1	1	1	A	X	TE
Acetylene	1	X	X	2	2	2	1	1	X	X	TEVNB
Alcohols											
Amyl Alcohol	2	2	2	2	2	1	2	2	A	A	TEVNB
Benzyl Alcohol	2	2	2	2	2	1	1	1	X	A	TVB
Butyl Alcohol	1	2	1	2	2	1	1	1	A	A	TEVN
Diacetone Alcohol	1	1	2	1	1	1	2	2	X	A	TE
Ethyl Alcohol	1	2	2	1	1	2	2	2	X	A	TEVNB
Hexyl Alcohol	-	-	-	1	1	-	-	-	A	-	-
Isobutyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Isopropyl Alcohol	2	2	2	2	2	2	2	2	A	A	TEVNB
Methyl Alcohol (Methanol)	2	2	2	1	1	2	2	2	A	A	TENB
Octyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Propyl Alcohol	2	2	2	1	1	2	1	1	X	A	TEVNB
Aluminum											
Aluminum Chloride (Aqu.)	X	X	X	1	1	X	X	X	A	A	TEVNB
Aluminum Fluoride (Sat.)	2	-	-	-	-	2	X	2	X	A	TEVNB
Aluminum Nitrate (Sat.)	3	X	-	-	-	-	2	2	A	A	TEVNB
Aluminum Potassium Sulfate (Alum)	2	2	2	2	2	2	X	2	X	A	TEVNB
Aluminum Sulfate (Sat.)	X	X	2	2	2	2	-	2	A	A	TEVNB
Ammonia											
Ammonia Anhydrous (* not plated)	1	X	X	2	2	1	2	1	A	X	TENB
Ammonia Gas	X	X	X	1	1	X	1	1	A	X	TENB
Ammonia Nitrate	-	-	-	-	-	-	-	-	X	-	-
Ammonium											
Ammonium Biflouride	-	X	-	2	2	2	-	-	X	A	TEVB

Ratings given are based at 21°C

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Ammonium Carbonate (Sat.)	2	X	X	2	2	2	2	2	A	A	TEVNB
Ammonium Casenate	-	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride (Sat.)	X	X	2	2	2	2	X	X	A	A	TEVNB
Ammonium Hydroxide (Sat.)	2	X	X	2	2	X	2	2	A	A	TEVNB
Ammonium Nitrate	2	X	X	-	-	X	-	-	A	A	TENB
Ammonium Phosphate (10-40%)	X	X	X	-	-	2	1	2	A	A	TEVNB
Ammonium Sulfate (10-40%)	X	X	3	2	2	2	X	2	A	A	TEVNB
Aniline	-	X	2	2	2	2	1	1	X	X	TV
Arsenic Acid	X	X	2	2	2	X	2	2	X	A	TEVNB
Asphalt	-	-	-	-	-	-	-	2	X	X	TV
Barium											
Barium Carbonate (Sat.)	X	2	2	2	2	2	2	2	A	A	TEVNB
Barium Chloride (Sat.)	-	2	2	1	1	2	X	-	A	A	TEVNB
Barium Hydroxide (Sat.)	X	2	X	2	2	1	2	2	A	A	TEVNB
Barium Sulfate	2	2	2	-	-	2	2	2	A	A	TEVNB
Barium Sulfide	X	X	X	-	-	X	2	2	A	A	TEVNB
Beer	1	2	2	1	1	1	1	1	A	A	TEVNB
Benzaldehyde	2	2	2	2	2	2	2	2	X	X	TE
Benzene, Benzol	1	2	2	2	2	2	2	2	A	X	TV
Benzine	-	-	-	-	-	-	-	-	A	X	-
Benzoic Acid	2	2	2	-	-	2	2	2	X	X	TVN
Black Liquor	X	X	X	X	X	2	2	2	X	A	TEVNB
Bleach (12.5% Active Chlorine)	X	-	-	1	1	-	-	X	X	A	TEVN
Borax	X	2	2	1	1	1	1	1	X	A	TEVNB
Boric Acid	1	X	2	1	1	2	-	-	X	A	TEVNB
Brine Acid	-	2	2	1	1	-	-	-	X	A	TEVNB
Bromic acid	X	X	X	-	-	X	-	-	X	A	TEVN
Bromine Liquid	2	-	-	-	-	-	X	X	X	X	TV
Butadiene, Butylene	2	2	2	2	2	1	2	2	X	X	TVNB
Butane	2	2	2	2	2	1	2	2	X	X	TV
Butyl Acetate	1	2	2	2	2	2	2	2	A	X	T
Butyric Acid	2	2	X	1	1	2	2	2	A	A	TV
Calcium											
Calcium Bisulfate	X	-	X	-	X	X	X	2	X	A	T
Calcium Bisulfide	-	-	-	-	-	2	-	2	A	A	TVB
Calcium Bisulfite	X	X	2	2	X	X	-	2	X	A	TVNB
Calcium Bromide	X	G	G	-	X	G	E	X	X	X	T
Calcium Carbonate	X	2	2	2	2	2	1	2	A	A	TEVB
Calcium Chloride (Sat.)	-	2	-	1	2	2	-	-	A	A	TEVNB
Calcium Hydroxide (Sat.)	X	2	X	-	2	2	2	2	A	A	TEVNB
Calcium Hypochlorite (Sat.)	X	X	X	-	X	X	X	2	X	A	TEV
Carbon											
Carbon Bisulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Dioxide (Dry)	1	1	2	1	2	1	2	2	A	A	TENB
Carbon Dioxide (Wet)	1	X	-	2	3	-	2	2	X	A	TENB
Carbon Disulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Monoxide	1	1	1	1	2	1	1	1	A	A	TEVNB
Carbon Tetrachloride	X	-	1	1	2	1	1	-	A	X	TV

Ratings given are based at 21°C

S

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Carbonic Acid	1	2	2	1	2	3	2	2	X	A	TEVNB
Castor Oil	2	2	2	1	2	1	2	2	X	A	TEVNB
Caustic Potash	X	-	-	1	X	-	-	2	A	A	TEVNB
Caustic Soda (see Sodium Hydroxide)											
Cellosolves	2	2	2	2	2	2	2	2	X	A	TE
Chlorine (Liquid)	-	-	-	1	2	2	-	3	X	X	TV
Chloroform	-	-	-	2	X	1	-	-	X	X	TV
Chlorosulfonic Acid	-	X	X	1	2	2	X	X	X	X	T
Clorox (Bleach, 5.5% CL)	X	-	-	-	X	-	-	2	X	-	TEVB
Chromic Acid (50%)	2	X	X	2	X	X	3	-	X	X	TVNB
Citric Acid	3	X	X	1	X	2	-	-	X	A	TEVNB
Coke Oven Gas	2	3	3	-	2	2	2	2	X	X	TEVN
Copper											
Copper Chloride	X	X	X	2	X	X	X	X	A	A	TEVNB
Copper Cyanide	X	X	X	1	-	X	2	2	X	-	TEVNB
Copper Sulfate	X	X	X	1	X	X	-	2	A	A	TEVNB
Crysylic Acid (Conc.)	2	2	X	-	2	3	2	2	X	X	TEV
Cyclohexane	2	2	2	2	2	1	2	2	A	X	TVB
Detergents	2	2	2	1	2	-	1	2	A	A	TEVNB
Dextrose	2	-	-	2	-	2	-	-	A	A	TEVNB
Diesel Fuels	1	1	1	2	2	-	1	1	A	X	TVB
Diethylamine	2	-	X	-	X	1	2	2	X	A	TN
Disodium Phosphate	-	-	-	-	1	-	-	1	A	A	TEV
Ethers	2	2	2	2	2	2	1	1	A	X	TB
Ethyl											
Ethyl Acetate	-	-	2	2	2	2	2	2	A	X	T
Ethyl Chloride	-	-	2	2	2	2	-	1	A	X	TEVB
Ethylene											
Ethylene Chloride	-	-	-	-	2	2	-	-	A	X	TV
Ethylene Dichloride	-	2	X	2	2	1	2	2	A	X	TV
Ethylene Glycol	1	2	2	1	2	2	2	2	A	X	TEVNB
Ethylene Oxide	1	X	X	1	2	2	2	2	X	X	T
Fatty Acids	1	3	3	1	X	2	-	1	A	A	TVNB
Ferric											
Ferric Chloride	X	X	2	2	X	X	X	X	X	A	TEVNB
Ferric Hydroxide	-	-	-	1	-	2	1	1	A	-	TEVNB
Ferric Nitrate (10-50%)	X	X	X	-	X	X	2	2	X	A	TEVNB
Ferric Sulfate	X	X	X	-	X	2	-	-	X	A	TEVNB
Ferrous											
Ferrous Chloride (Sat.)	X	X	2	2	-	X	X	X	X	A	TEVNB
Ferrous Sulfate	2	2	2	2	X	2	2	-	X	A	TEVNB
Fluboric Acid	X	-	-	1	1	2	-	-	X	A	TEVNB
Formaldehyde (50%)	-	2	2	2	X	2	1	1	X	A	TEN
Formic Acid (Anhyd.)	1	X	2	1	X	2	-	-	X	A	TEVN
Freon											
Freon 11	2	2	2	-	X	1	2	2	X	X	TVNB
Freon 12	2	2	2	1	X	2	2	2	X	X	TVNB
Freon 22	2	2	2	2	X	2	2	2	X	X	TN
Fruit Juices	2	2	3	1	X	1	2	2	A	A	TVNB

S

Ratings given are based at 21°C

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Furfural	2	2	2	2	2	2	2	2	A	X	TEN
Gasoline											
Refined Gasoline	2	2	2	2	2	2	2	2	A	X	TVNB
Sour Gasoline	X	2	2	2	2	X	2	2	A	X	TVNB
Gelatin	2	2	2	-	X	2	2	2	A	A	TEVNB
Glucose	2	2	2	-	2	2	2	2	A	A	TEVNB
Glue	2	2	2	1	2	2	-	2	-	A	TEVNB
Glycerine	1	1	2	1	2	1	1	1	A	A	TEVNB
Glycols	2	2	2	-	2	2	2	2	A	A	TEVNB
Green Liquor	-	-	-	-	2	-	-	-	-	A	TEVNB
Heptane	2	2	2	1	2	2	2	2	A	X	TVNB
Hexane	2	2	2	1	2	2	1	1	A	X	TVNB
Hydrobromic Acid (50%)	X	X	X	2	X	X	X	X	X	A	TEV
Hydrobromic Acid (20%)	X	X	X	1	X	X	X	X	X	A	TEV
Hydrochloric Acid (20%)	X	X	X	1	X	3	X	X	X	A	TEVNB
Hydrochloric Acid (38%)	X	X	X	1	X	X	X	X	X	A	TEVN
Hydrocyanic Acid	2	X	X	2	2	2	2	2	X	A	TEVN
Hydrofluosilicic Acid (10-50%)	X	2	X	2	X	2	X	2	X	-	TEVNB
Hydrogen											
Hydrogen Peroxide (50%)	-	X	X	2	X	2	-	-	X	A	TEV
Hydrogen Sulfide (Aqu.)	-	-	-	2	-	2	X	2	X	A	TE
Hydrogen Chloride (Dry Gas)	X	2	-	1	2	1	-	-	X	A	TEVN
Hydrogen Gas	1	1	1	1	-	1	1	1	X	A	TEVNB
Hypochlorous Acid	X	X	X	2	X	X	X	X	X	X	TEV
Iodine	1	X	X	-	X	1	X	X	X	A	TEV
Isopropyl Ether	-	2	2	-	-	2	1	2	A	X	T
Jet Fuel (JP4, JP5)	2	1	2	1	2	2	2	2	X	X	TV
Kerosene	2	2	2	2	2	2	2	2	X	X	TVNB
Ketones	2	2	2	1	2	2	2	2	A	X	T
Lactic Acid (25%)	3	2	2	1	X	X	-	-	A	A	TEVN
Lactic Acid (80%)	2	2	X	2	X	-	-	-	A	A	TEVN
Lard Oil	2	-	2	1	3	2	2	2	A	A	TVB
Lead											
Lead Acetate	X	X	X	2	X	2	2	2	X	A	TENB
Lead Chloride	X	-	-	2	-	-	2	2	X	-	TVNB
Lead Sulfate	X	-	-	2	X	2	2	2	X	-	TEVNB
Lime Sulphur	X	X	X	-	X	2	2	2	X	A	TEVN
Linoleic Acid	2	X	3	2	X	2	2	2	X	A	TVB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB
Lubricants (Oil)	2	1	-	-	2	2	2	2	A	X	TVNB
Magnesium											
Magnesium Carbonate	2	-	-	-	-	2	2	2	X	A	TEVNB
Magnesium Chloride	X	X	2	1	-	-	-	-	X	A	TEVNB
Magnesium Hydroxide	2	2	2	1	2	2	1	1	X	A	TEVNB
Magnesium Nitrate	2	2	2	1	2	2	2	2	X	A	TEVNB
Magnesium Oxide	-	-	-	-	-	-	-	-	X	-	-
Magnesium Sulfate	2	-	2	-	-	1	2	2	X	A	TEVNB
Maleic Acid	-	2	3	2	X	-	-	2	X	A	TEV

Ratings given are based at 21°C

S

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Mercuric											
Mercuric Chloride	X	X	X	-	X	X	X	-	X	A	TEVB
Mercuric Cyanide	X	X	X	2	X	2	2	2	X	A	TEVB
Mercury	X	X	X	1	2	-	1	1	A	A	TEVNB
Methane	1	1	2	1	2	1	1	1	A	X	TEVNB
Methanol	2	2	2	1	2	2	2	2	A	A	TENB
Methyl											
Methyl Bromide	X	-	-	-	2	-	2	2	X	X	TV
Methyl Ethyl Ketone	2	2	2	2	2	2	2	2	A	X	TE
Methyl Isobutyl Ketone	2	2	2	2	2	2	2	2	A	X	T
Methyl Methacrylate	2	-	-	-	X	-	2	2	X	A	T
Methylene Chloride	-	2	2	X	2	-	-	-	A	X	T
Milk	1	X	X	1	2	X	1	1	A	A	TEVNB
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Muriatic Acid	X	-	-	1	-	X	X	X	X	A	TV
Napthalene	2	2	2	2	2	2	1	1	A	A	TV
Naptha	2	2	2	2	2	2	2	2	A	X	TVB
Nickel											
Nickel Chloride	X	X	X	-	X	2	-	-	X	A	TEVNB
Nickel Sulfate	X	X	-	2	-	-	2	2	X	A	TEVNB
Nitric											
Nitric Acid (100%)	1	X	X	2	X	X	2	-	X	X	TV
Nitric Acid (50%)	X	X	X	1	X	X	2	-	X	X	TV
Nitric Acid (30%)	X	X	X	1	X	X	1	-	X	X	TV
Nitrobenzene	1	2	2	-	2	2	2	2	A	A	T
Oils											
Castor Oil	2	2	2	1	2	1	2	2	A	A	TEVNB
Coconut Oil	2	-	2	-	3	2	2	2	A	A	TVB
Corn Oil	2	2	2	-	2	2	-	2	A	A	TVNB
Cotton Seed Oil	2	2	2	-	2	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Silicon Oil	2	1	2	-	2	-	2	2	A	A	TEVB
Vegetable Oil	2	2	2	1	2	1	1	1	A	X	TVNB
Oleic Acid	2	3	2	2	2	1	-	1	A	X	TB
Oleum	2	X	X	-	2	X	2	2	X	X	TV
Oxalic Acid (Sat.)	2	-	2	2	X	2	X	X	X	A	TEV
Oxygen	2	2	2	-	2	2	2	2	X	X	TEVNB
Palmitic Acid (Sat.)	2	3	2	-	3	2	2	2	X	A	TVB
Paraffin	2	2	2	2	2	2	2	2	A	A	TVNB
Perchloroethylene	2	2	2	2	2	1	-	-	X	X	TV
Petrolatum	2	-	2	-	3	2	2	2	A	-	TVNB
Phenol (Carbolic Acid)	1	1	X	1	2	1	-	1	X	X	TV
Phosphoric Acid											
Phosphoric Acid (25-50%)	X	X	2	1	X	X	-	-	X	A	TEVN
Phosphoric Acid (50-85%)	X	X	X	1	X	3	-	-	X	A	TEV
Photographic Solutions	-	-	-	-	X	1	1	1	X	X	TVNB
Phthalic Anhydride	-	2	2	1	2	1	1	1	X	X	TEV

Ratings given are based at 21°C

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Picric Acid	1	X	X	2	X	X	2	2	X	-	TEVNB
Plating Solutions											
Brass Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Cadmium Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Chrome 40% Plating Solution	X	2	2	1	X	X	2	2	X	A	TEVN
Copper (Cyanide) Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Gold Plating Solution	-	-	-	1	-	-	-	1	X	A	TEVNB
Iron PLating Solution	-	-	-	-	-	-	-	-	X	A	TEVB
Lead Plating Solution	-	-	-	-	-	-	1	1	X	A	TEVNB
Nickel Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Silver Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Tin Plating Solution	-	-	-	1	-	-	-	3	X	A	TEVNB
Zinc Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Potassium											
Potassium Acetate	X	X	X	-	2	-	-	-	A	A	TEVB
Potassium Bicarbonate (30%)	X	2	-	2	2	2	1	1	A	A	TEVNB
Potassium Carbonate (50%)	X	2	X	2	2	2	1	1	A	A	TEVNB
Potaasium Chlorate (30%)	2	X	X	-	2	2	2	1	X	A	TEVNB
Potassium Chloride (30%)	X	X	2	-	2	1	-	-	A	A	TEVNB
Potassium Chromate (30%)	2	2	2	2	-	2	2	2	X	A	TEVB
Potassium Cyanide Solution (30%)	X	X	X	2	2	2	2	2	X	A	TEVNB
Potassium Dichromate (30%)	1	2	2	2	2	2	1	1	X	A	TEVB
Potassium Hydroxide (90%)	X	X	X	2	-	2	X	-	X	A	TENB
Potassium Nitrate (80%)	1	2	2	2	2	2	2	2	X	A	TEVNB
Potassium Permanganate (20%)	2	2	2	1	2	2	2	2	X	A	TEVN
Potassium Sulfate (10%)	1	2	2	1	2	1	1	1	A	A	TEVNB
Propane	1	1	1	2	2	1	2	2	X	X	TVB
Propylene Gylcol	2	2	2	2	2	2	2	2	A	A	TVNB
Propylene Oxide (90%)	-	-	-	-	-	-	1	1	X	X	TE
Pyridine	2	2	2	-	2	2	2	2	A	X	T
Pyrogallic Acid	2	2	2	2	2	2	2	2	X	X	TVNB
Silver Nitrate	X	X	X	-	X	X	2	1	X	A	TEVNB
Soap Solutions	2	2	2	1	2	2	2	2	A	A	TEVNB
Sodium											
Sodium Acetate	1	2	2	-	X	2	2	2	A	A	TEN
Sodium Bicarbonate (20%)	2	2	2	1	3	1	1	1	A	A	TEVNB
Sodium Bisulfate	X	-	2	2	2	-	-	-	A	A	TEVNB
Sodium Bisulfite	X	2	X	2	X	-	-	-	A	A	TEVNB
Sodium Borate	2	2	2	2	3	2	2	2	A	A	TEVNB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Carbonate	X	2	-	2	2	1	-	2	A	A	TEVNB
Sodium Chlorate (50%)	2	2	2	1	X	1	2	2	X	A	TEVNB
Sodium Cyanide	X	X	X	2	2	X	-	-	A	A	TEVNB
Sodium Dichromate	2	X	X	1	2	-	2	2	X	A	TE
Sodium Hydroxide (70%)	X	X	X	1	3	1	2	2	X	A	TENB
Sodium Hydroxide (50%)	X	X	3	1	3	1	1	-	X	A	TENB
Sodium Hydroxide (30%)	X	2	3	2	2	1	1	1	X	A	TENB
Sodium Chloride (30%)	X	2	2	2	2	1	-	-	X	A	TEVNB
Sodium Hypochlorite	X	X	X	-	X	X	-	-	X	A	TEV

Ratings given are based at 21°C

Corrosion Resistance of Coupling Material

Agent	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Sodium Metaphosphate	X	X	2	-	X	2	2	2	X	X	TEVNB
Sodium Nitrate (40%)	1	2	-	-	2	2	1	1	A	A	TENB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Peroxide (10%)	2	X	X	2	2	2	2	2	X	A	TEVNB
Sodium Silicate	1	2	2	2	2	2	2	2	A	A	TEVNB
Sodium Sulfate	-	2	2	2	2	-	-	1	A	A	TEVNB
Sodium Sulfide (50%)	X	X	X	2	2	2	-	2	X	A	TEVNB
Sodium Thiosulphate	2	X	X	2	X	2	2	2	A	A	TEVNB
Stannic Chloride	X	X	X	-	X	X	X	X	X	A	TEVNB
Stannous Chloride	X	X	X	2	X	-	X	-	X	X	TEVNB
Steam	-	-	-	-	-	-	-	-	X	-	-
Stearic Acid	2	3	2	1	3	3	2	1	A	A	TVNB
Stoddard's Solvent	2	2	2	1	2	2	2	2	X	A	TVB
Sugar Liquors (Cane)	1	2	1	-	2	2	2	2	A	A	TEVNB
Sugar Liquors (Beet)	1	2	1	-	2	1	1	1	A	A	TEVNB
Sulfate Liquors	2	X	X	2	3	2	-	2	X	A	TVNB
Sulfite Liquors	X	X	-	1	X	X	2	2	X	X	TVNB
Sulfur Chloride	X	-	X	2	X	X	-	-	X	X	TV
Sulfur Dioxide (Dry)	2	2	2	2	1	2	-	2	X	A	TE
Sulfur Trioxide	2	2	X	2	2	2	-	2	X	X	TEV
Sulfuric Acid (TO 10%)	X	2	X	1	X	X	X	X	X	A	TEVNB
Sulfuric Acid (100%)	X	X	X	1	2	X	-	-	X	X	TV
Sulfurous Acid	2	2	X	-	X	X	X	-	X	A	TV
Tannic Acid	X	-	X	-	X	2	2	2	X	A	TEVNB
Tanning Liquors	1	-	2	1	-	-	1	1	X	A	TVNB
Tartaric Acid	-	-	2	2	-	-	1	1	A	A	TVNB
Titanium Tetrachloride	X	X	X	2	2	2	-	2	X	X	TV
Toluene	1	1	1	1	1	1	1	1	A	X	TVB
Tetrahydrofuran	X	-	2	1	1	-	1	2	A	X	T
Tomato Juice	2	-	3	2	3	2	2	2	X	A	TEVNB
Trichloroethylene	1	-	2	1	2	-	-	-	A	X	TV
Triethanolamine	2	X	2	2	2	2	2	2	A	X	TEVN
Triethylamine	-	-	-	-	-	2	2	2	A	X	TVB
Trisodium Phosphate (10%)	X	2	-	1	2	2	1	1	A	A	TVNB
Turpentine	2	X	2	2	2	1	1	1	X	X	TVB
Urea (50%)	2	-	2	-	2	2	2	2	A	A	TEVNB
Urine	-	-	-	-	2	-	1	1	X	A	TEVNB
Vinegar	2	X	2	2	2	2	2	2	X	A	TEVN
Water Acid (Mine)	X	X	X	1	X	-	-	-	X	A	TEVNB
Water (Distilled)	X	2	2	1	X	X	2	2	A	A	TEVNB
Water (Sea)	2	2	2	1	X	2	2	2	A	A	TEVNB
Whiskey	X	2	2	1	2	2	1	1	X	A	TEVNB
White Liquor (Pulp)	2	-	X	2	X	X	2	2	X	A	TEVNB
Wine	X	2	2	1	X	2	1	1	X	A	TEVNB
Xylene	2	2	2	1	2	2	2	2	A	X	TV
Zinc											
Zinc Chloride	X	X	X	2	X	-	X	2	A	A	TEVNB
Zinc Nitrate	-	-	-	-	-	-	2	2	X	A	TEVNB
Zinc Sulfate (50%)	X	2	2	2	X	2	1	1	X	A	TEVNB

Ratings given are based at 21°C

Cam and Groove Specifications

Design Information

Applications	How does it work?
The Dixon™ Cam & Groove coupling is a reliable quick connect coupling for use on hose, pipe, tubing and tanks conveying a wide variety of liquids, dry bulk materials and vapours including cooling water, fuels, chemicals, cosmetics, food products, adhesives, dyes, pharmaceuticals, pellets and much more.	The coupling is connected by simply opening the coupler arms and inserting the adapter into the coupler. The two cam arms are then closed under normal hand pressure to complete the joint.

The Dixon™ range of Cam and Groove (Camlock) couplers and adaptors are manufactured to interchange with all product produced to Mil Spec A-A 59326, which supersedes Mil-C-27487. No Standard exists for the ½" (15mm) & 8" (200mm) fittings and generally these sizes do not interchange with other manufacturers.

Maximum Pressure Ratings

Designed for use with liquids. Consult Dixon Asia Pacific for specific recommendations. Recommendations based on the use of mating Dixon™ fittings at ambient temperature 21ºC with standard Buna-N seal installed. For use at elevated temperature or other unusual operating conditions, consult your Dixon™ representative.

For Aluminium, Bronze, Brass, Stainless Steel & Malleable Camlocks:						
Sizes (mm)	15	20-50	65	75	100	125-150
Pressure (PSI)	150	250	150	125	100	75

For Polypropylene & Nyglass Camlocks:				
Sizes (mm)	15-25	32-50	75	100
Pressure (PSI)	125	100	75	50

Polypropylene & Nyglass Cam & Groove Temperature vs Pressure Rating

	Size	15mm - 50mm			75mm - 100mm		
Polypropylene & Nyglass	Temperature (°C)	-18°	21°	65°	-18°	21°	65°
	Pressure (PSI)	100	125	70	70	90	50

Materials

The Dixon™ range of Cam and Groove (Camlock) couplers and adaptors are manufactured from the following materials.

- Aluminium conforming to the requirements of ASTM B 26/B 26M Grade 356.0 – T6.
- Stainless Steel grade CF8M (316 Equivalent) in accordance with the requirements of ASTM-A351
- Bronze grade UNS C84400 in accordance with the requirements of ASTM-B584
- Polypropylene 30% glass filled
- Nyglass 30% glass filled

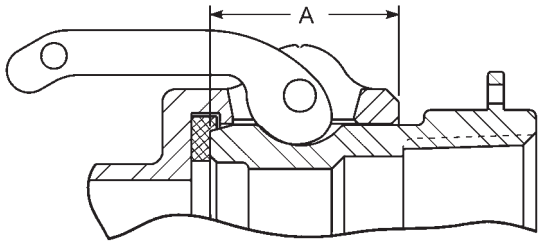
Body	Levers	Pins
Die Cast Aluminium	Brass	Mild Steel
Bronze	Stainless Steel	Stainless Steel
Polypropylene	Stainless Steel	Stainless Steel
Nyglass	Stainless Steel	Stainless Steel
Stainless Steel	Stainless Steel	Stainless Steel

Welding of Camlocks

Couplings made using the diecast process must NOT be welded. Although Bronze Sand Cast Couplings made from the above materials may be welded using the appropriate welding equipment and compatible filler material, any modifications to the product will void your warranty. Welding the couplings changes the integrity of the coupling therefore Dixon Asia Pacific will not accept any responsibility for modified couplings.

Cam and Groove Nominal Take-Up Lengths

Size (inch)	A (inch)	Size (inch)	A (inch)
½	0.97	3	1.78
¾	0.97	4	1.84
1	1.20	5	2.00
1¼	1.44	6	2.13
1½	1.50	(Boss-Lock™) 8	2.06
2	1.81	(Andrews) 8	3.22
2½	1.82		



CAMLOCK SAFETY

- **UNDER NO CIRCUMSTANCES** should cam and groove (camlock) couplings be used in compressed air or steam applications.
- Dust Caps and Dust Plugs are not to be used in any pressure applications for safety and environmental reasons.

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Claw Coupling Specifications

A Type European Pattern

Materials Available: SG Iron ISO 1083 Zinc Plated
316 Stainless Steel CF8M
Seal Material: Natural Rubber (NR)
FKM
Nitrile available on request
(NBR, Buna N)
Temperature Range: Natural Rubber (NR) Seal -29°C to 71°C
FKM Seal -30°C to 200
Working Pressure: Standard Seal 500 PSI,
Bellow Seal 1000 PSI
Compatible with: Atlas Copco, Ludecke
Size Range: ⅜" to 1¼" Hose end and Threaded
Thread Type: Male and Female BSP
NPT available on request



Surelock™ Australian Pattern

Materials Available: SG Iron ISO 1083 Zinc Plated
316 Stainless Steel CF8M
Seal Material: Natural Rubber (NR)
FKM
Nitrile available on request (NBR, Buna N)
Temperature Range: Natural Rubber Seal -29°C to
71°C FKM Seal -30°C to 200
Working Pressure: ⅜" to 2" 1000 PSI 3" 500 PSI
Size Range: ⅜" to 3" Hose end and Threaded
2" Shouldered
Thread Type: Male and Female BSP
NPT available on request



Air King™ American Pattern

Materials Available: Malleable Iron ASTM A47
316 Stainless Steel CF8M
Brass C84400
Seal Materials: Natural Rubber (NR)
Neoprene
FKM
Temperature Range: Rubber Seal -29°C to 71°C
Neoprene Seal -29°C to 88°C
FKM Seal -30°C to 200°C
Working Pressure: 150 PSI at 21°C
Size Range: ⅜" to 1" Hose end and Threaded
Thread Type: Male and Female BSP or NPT

NOTE: Air King™ is for Air & Water Service Only

Minsup™ Claw Couplings

Minsup™ Claw Couplings are a universal hose coupling that provide quick, safe and reliable connections. Claw couplings are designed with a common or universal claw which enables differing hose sizes and nominal bores sizes to be connected. Claw couplings are most commonly used for conveying air and water, and are not be used for steam applications.

Common industry applications: under ground and surface mining, mineral processing, compressor and air tool industries, hire companies.

All Minsup™ Claw Couplings comply with AS 2554 and AS2660 – Hose and Hose Assemblies for Air/Water.

Minsup™ Claw Couplings with Crimped Ferrule

Fitting Maximum Working Pressure: 300 PSI Assembly Maximum Working Pressure will depend on the type of hose used. If unsure contact Dixon Asia Pacific to enquire about hose assembly testing. Tested & Approved for use with:

- A190 Super Air Water Hose (300 PSI working pressure)
- A102 Contractors Yellow Air Hose (200 PSI working pressure)

For alternative hose types, contact Dixon Asia Pacific for suitability. For Crimp Specifications and procedures contact Dixon Asia Pacific.

Materials	
Ferrule	Zinc Plated Mild Steel
Coupling	SG Iron Zinc Plated
Seal	Natural Rubber (FKM available on request)

Locking Pins

The use of a Minsup™ Safety Locking Pin is necessary to ensure that Minsup™ A Type & Surelock™ Claw Couplings will not become accidentally disconnected. This ensures that the fittings are properly connected as the pin will not go through the holes in both couplings until the couplings are locked into place.

The Importance of Safety Hose

Constant vibration created by air drills, pavement breakers etc is destructive to air hose couplings, especially the quick-acting type. To provide protection, connect one end of a 1 to 3 metre length of air hose to the tool using the heat-treated No. 3500 Steel Nipple (page 175) which withstands vibration for a longer period. Connect the other end of Whip Hose to the air supply with the quick-acting coupling.

Whip Hose should remain permanently connected to the tool and should be the same diameter as the supply line hose.

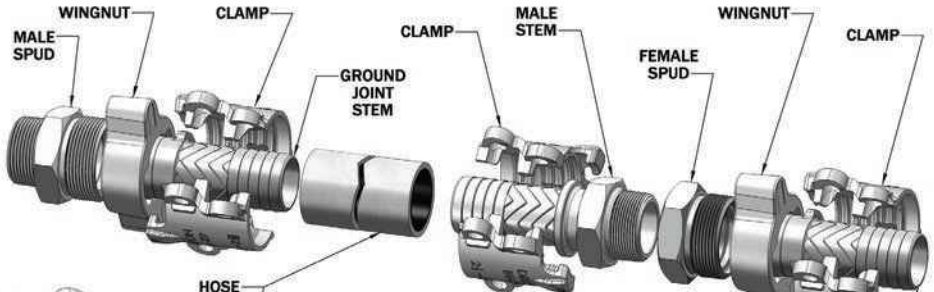
For whipcheck assemblies refer to page 14



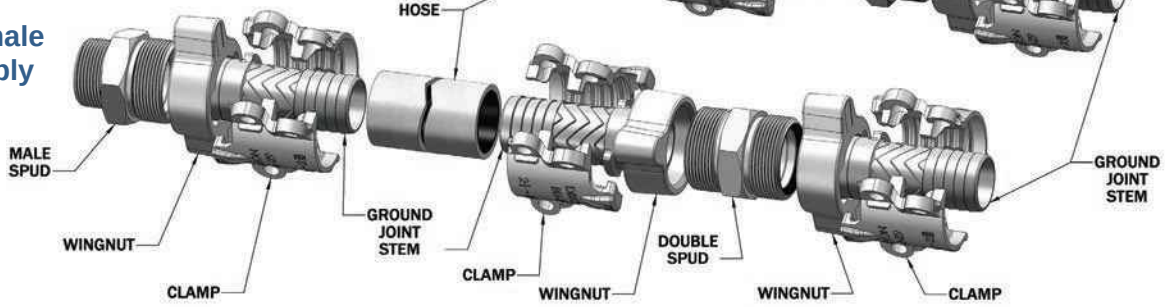
Boss™ Coupling System

PURPOSE: Boss™ couplings supply a convenient threaded fitting needed to connect two lengths of hose, or a single length to a male or female threaded (NPT/BSP) outlet.
FEATURES: The spud part of the coupling serves as one half of the connection and is usually fixed to the equipment. The stem part that is clamped to the hose is the other half. The two halves are connected or disconnected by rotating the wing nut on the spud. When connected, they achieve a mechanical as well as a pressure seal.
SERVICES: Boss™ couplings are all-purpose hose couplings, universally recommended for steam hose connections. They are also widely used for air, water, fluid petroleum chemicals and liquid petroleum gas up to 1" ID. Boss™ couplings can be applied to many types of rubber, synthetic, plastic, metallic or semi-metallic hose. Consult your local Dixon™ branch for specific media capabilities.

Female X Male Hose Assembly



Female X Female Hose Assembly



Boss™ Technical Information

Boss™ Couplings Working Pressure Ratings						
Size	Air		Water		Steam	
	PSI	MPa	PSI	MPa	PSI	MPa
¼" to 2"	600	4.1	600	4.1	250	1.7
2½" and 3"	450	3.1	450	3.1	250	1.7
4" and 6"	250	1.7	250	1.7	250	1.7

	¼" to 1" include	1½" to 6" include
Stems	Plated Steel	Plated Malleable Iron Through 100mm Tubular Steel - 150mm
Spuds	Plated Steel	Plated Malleable Iron
Wing Nuts	Plated Malleable Iron	Plated Malleable Iron

GROUND JOINT
Positive Metal-to-Polymer Seal

- A leakproof seal is formed when the metal head of the stem makes contact with the patented polymer seat in the spud.
- The non-metallic polymer seat resists most chemicals found in manufacturing facilities.
- Recommended for steam service up to 230° C.
- Easy to seal.
- Plated steel and/or malleable iron.
- Use with Dixon™ Boss™ Clamps in this catalogue.

Washer Type

- A Klinger washer is inserted between the stem and spud.
- A leak proof seal is formed by rotating the wing nut and hammering it tight.
- Plated steel and/or malleable iron.



Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.

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Bolt Tightening Sequence for Dixon™ Boss™ Clamps

Notes:

1. The correct size Boss™ clamp must be used.
2. Bolts in Boss™ clamps are designed to bend as they are tightened. This allows the clamp to conform to the hose outside diameter.
3. Always tighten bolts to their specified torque value. This torque value can be found on the page 217-218.
4. Periodic re-tightening of bolts is required due to Cold Flow phenomenon present in all rubber hoses.
5. Boss™ Clamps are for single use only! Once removed they are to be discarded.

2 Bolt Dixon™ Boss™ Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

a) First bolt (nut facing assembler) 1 full turn.
b) Second bolt (opposite first bolt) 1 full turn.
c) Repeat procedure "a" and "b" until both bolts have reached the recommended torque.
d) Remove assembly from vise.

4 Bolt Dixon™ Boss™ Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

a) Back bolt (bolt with nut facing assembler that is furthest away from gripping finger) 1 full turn.
b) Front bolt (bolt with nut facing assembler that is closest to gripping finger) 1 full turn.
c) Snug by hand (if bolts are loose) nuts on opposite side of bolts just torqued.
d) Opposite side back bolt (bolt with nut facing assembler furthest away from gripping finger) 1 full turn.
e) Opposite side front bolt (bolt with nut facing assembler closest to gripping finger) 1 full turn.
f) Snug by hand (if bolts are loose) nuts on opposite side of bolts just torqued.
g) Repeat above procedure "a" through "f" until all of the bolts have reached the recommended torque.
h) Remove assembly from vise.

6 Bolt Dixon™ Boss™ Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

a) Back bolt (bolt with nut facing assembler that is furthest away from gripping finger) having "X" near it one full turn.
b) Front bolt (bolt with nut facing assembler that is closest to gripping finger) of same segment one full turn.
c) Moving to clamp segment to the left of the one just tightened, snug bolts by hand (if bolts are loose).
d) Back bolt to one full turn.
e) Front bolt one full turn.
f) Moving to clamp segment to the left of the one just tightened, snug bolts by hand (if bolts are loose).
g) Back bolt one full turn.
h) Front bolt one full turn.
i) Repeat above procedure "a" through "h" until all of the bolts have reached the recommended torque.
j) Remove assembly from vise.

Crimped Air King™ Recommendation Guide

Please note that the chart at right is to be used only as a guide and not as a steadfast rule for every coupling application. In some instances, alternative dies and crimped dimensions must be employed. Hoses, as well as couplings, react differently during crimping. This is due to the fact that there are variances in hose constructions for hose with similar dimensions. Some variables are: textile braid vs. wire braid, hardwall vs. softwall, presence or lack of internal spiral wire as well as differences in hose covers. In addition, the outer diameter of the hose tends to fluctuate from end to end and production lot to production lot. With this in mind, we suggest that you measure the hose OD and maintain accurate records for each coupling application.

Hose Size ID (inch)	Crimped Length	Part No.	Fractional Hose OD (inch)	Swage Die Sizes (inch)	Die Part No.	Crimp Diameter	% Reduction
½	1¼	AM1WF and RAMWF	54/64	1-3/16 x 29/32	1&3/16D4	0.906	18.3
			55/64	1-3/16 x 15/16	1&3/16D5	0.937	13.2
			56/64			0.968	16.9
			57/64	1-3/16 x 31/32	1&3/16D3	0.968	12.1
			58/64			1.000	15.5
			59/64	1-3/16 x 1	1&3/16D	1.000	11.1
			60/64			1.031	14.4
			61/64				17.2
			62/64	1-3/16 x 1-1/32	1&3/16D2	1.031	13.4
			63/64				16.1
			1	1-3/16 x 1-1/16	1&3/16D1	1.062	12.7
			1-1/64				15.3
			1-2/64	1-3/16 x1-3/32	1&3/16D6	1.093	12.0
¾	1¼	AM6WF and RAM6WF	1-4/64	1-1/2 x 1-5/32	1&1/2D6	1.156	13.4
			1-5/64			1.187	17.3
			1-6/64	1-1/2 x 1-3/16	1&1/2D7	1.187	11.9
			1-7/64			1.218	15.8
			1-8/64	1-1/2 x 1-7/32	1&1/2D5	1.218	11.2
			1-9/64			1.250	14.6
			1-10/64				17.5
			1-11/64	1-1/2 x 1-1/4	1&1/2D4	1.250	13.0
			1-12/64			1.281	16.2
			1-13/64	1-1/2 x 1-9/32	1&1/2D3	1.281	12.3
			1-14/64				15.1
			1-15/64	1-1/2 x 1-5/16	1&1/2D2	1.312	11.5
			1-16/64				14.4
			1-17/64				16.9
			1-18/64	1-1/2 x 1-11/32	1&1/2D	1.343	13.5
			1-19/64				15.9
			1-20/64	1-1/2 x 1-3/8	1&1/2D1	1.375	12.6
			1-21/64				15.0
			1-22/64	1-1/2 x 1-13/32	1&1/2D8	1.406	12.1
1	1½	AM11WF-1	1-18/64	1-11/16 x 1-3/8	1&11/16D4	1.375	16.7
			1-19/64				20.5
			1-20/64	1-11/16 x 1-13/32	1&11/16D5	1.406	15.0
			1-21/64				18.6
			1-22/64	1-11/16 x 1-7/16	1&11/16D8	1.437	13.7
			1-23/64				17.5
			1-24/64	1-11/16 x 1-15/32	1&11/16D6	1.468	12.8
			1-25/64				16.1
			1-26/64	1-11/16 x 1-1/2	1&11/16D	1.500	11.5
			1-27/64				14.7
			1-28/64				17.6
			1-29/64	1-11/16 x 1-17/32	1&11/16D2	1.531	13.9
		AM11WF or RAM11WF and AM11WF-1	1-30/64	1-7/8 x 1-17/32	1&7/8D8		16.8
			1-31/64	1-7/8 x 1-9/16	1&7/8D5	1.562	12.8
			1-32/64				15.4
			1-33/64	1-7/8 x 1-19/32"	1&7/8D6	1.593	12.0
			1-34/64				14.7
		AM11WF and RAM11WF	1-35/64	1-7/8 x 1-5/8"	1&7/8D7	1.625	11.1
			1-36/64				13.7
			1-37/64				15.9
			1-38/64	1-7/8 x 1-21/32"	1&7/8D1	1.656	12.9
			1-39/64				15.1
			1-40/64	1-7/8 x 1-11/16"	1&7/8D	1.687	12.4
			1-41/64				14.5
			1-42/64	1-7/8 x 1-23/32"	1&7/8D2	1.718	11.8
			1-43/64				14.0
			1-44/64	1-7/8 x 1-3/4"	1&7/8D4	1.750	11.3
			1-45/64				13.3
			1-46/64				15.1

Note: Multiply Decimal by 25.4 for OD mm (eg; 0.844 x 25.4 = 21.43mm)

S

Crimped Dix-Lock™ and Dual-Lock Recommendation Guide

Please note that the chart below is to be used only as a guide and not as a steadfast rule for every coupling application. In some instances, alternative dies and crimped dimensions must be employed. Hoses, as well as couplings, react differently during crimping. This is due to the fact that there are variances in hose constructions for hose with similar dimensions. Some variables are: Textile braid vs. Wire braid, Hardwall vs. Softwall, presence or lack of internal spiral wire as well as differences in hose covers. In addition, the outer diameter of the hose tends to fluctuate from end to end and production lot to production lot. With this in mind, we suggest that you measure the hose OD and maintain accurate records for each coupling application.

Hose ID (inch)	Measured Hose OD		Crimp Length	Dix-Lock™ Crimp OD ± .005	Crimp Length	Dual-Lock Crimp OD ± .005
	Fractional	Decimal				
				Part No. QM3WF, QB3WF, QM22WF, QB22WF, QM33WF, QB33WF		**Part No. PHL8WF**
½	54/64"	0.844	1⅛	0.968	1¼	0.968
½	55/64"	0.859	1⅛	0.968	1¼	0.968
½	56/64"	0.875	1⅛	0.968	1¼	0.968
½	57/64"	0.891	1⅛	1.000	1¼	1.000
½	58/64"	0.906	1⅛	1.000	1¼	1.000
½	59/64"	0.922	1⅛	1.031	1¼	1.031
½	60/64"	0.938	1⅛	1.031	1¼	1.031
½	61/64"	0.953	1⅛	1.062	1¼	1.062
½	62/64"	0.969	1⅛	1.062	1¼	1.062
½	63/64"	0.984	1⅛	1.062	1¼	1.062
½	1"	1.000	1⅛	1.093	1¼	1.093
½	1-1/64"	1.016	1⅛	1.093	1¼	1.093
½	1-2/64"	1.031	1⅛	1.093	1¼	1.093
				Part No. QM4WF, QB4WF, QM23WF, QB23WF, QM44WF, QB44WF		**Part No. PHL12WF**
¾	1-10/64"	1.156	1¼	1.218	1¼	1.218
¾	1-11/64"	1.172	1¼	1.218	1¼	1.218
¾	1-12/64"	1.188	1¼	1.218	1¼	1.218
¾	1-13/64"	1.203	1¼	1.250	1¼	1.250
¾	1-14/64"	1.219	1¼	1.250	1¼	1.250
¾	1-15/64"	1.234	1¼	1.281	1¼	1.281
¾	1-16/64"	1.250	1¼	1.281	1¼	1.281
¾	1-17/64"	1.266	1¼	1.281	1¼	1.281
¾	1-18/64"	1.281	1¼	1.312	1¼	1.312
¾	1-19/64"	1.297	1¼	1.312	1¼	1.312
¾	1-20/64"	1.313	1¼	1.343	1¼	1.343
¾	1-21/64"	1.328	1¼	1.343	1¼	1.343
¾	1-22/64"	1.344	1¼	1.375	1¼	1.375

Note: Multiply Decimal by 25.4 for OD mm (eg; 0.906 x 25.4 = 23.01mm)

Dixon™'s couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention devices, and the proper application of the coupling to the hose are of the utmost importance. Users must consider the size, temperature, application, media, pressure and the hose and coupling manufacturer's recommendations when selecting the proper hose assembly components.
Dixon™ recommends that all hose assemblies be tested in accordance with the Rubber Manufacturers Association's recommendations and be inspected regularly (before each use), to ensure that they are not damaged or become loose.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices, such as safety clips and King™ safety cables, are recommended. If any problem is detected, couplings must be removed from service immediately.

Dixon™ is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon™'s Testing and Recommendations Services. Dixon™ can be contacted on 1300 134 651

Holedall™ External Swage Coupling System

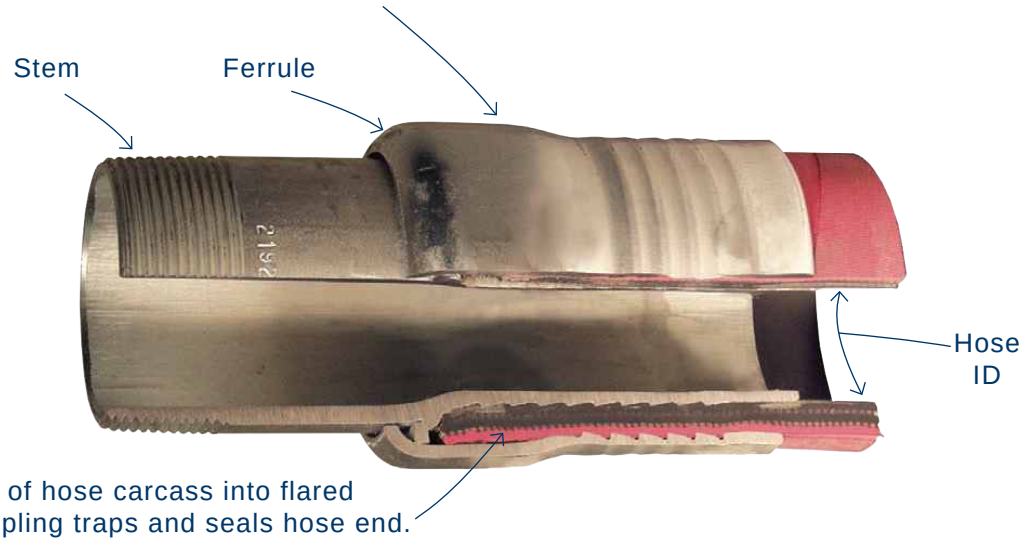
The Holedall™ coupling system attaches couplings to hose utilising a draw type progressive swage, and provides outstanding strength, durability and safety. Patented Holedall™ couplings include a Holedall™ stem and a specially engineered ferrule. The hydraulic swaging of the coupling to the hose is achieved by pushing the ferrule through a die which reduces the ferrule OD. The ferrule penetrates the hose wall providing a 360° uninterrupted compression band around the hose.

A hydraulic ram (Mulcoram) is the only piece of machinery necessary to create the coupling, and suits dies and pushers of various sizes so that hoses up to 250mm in diameter may be coupled.

This multi-purpose, high pressure coupling system requires no bolts and results in a clean coupling with no protrusions. The swaging operation is fast, and hose of various lengths and different styles can be coupled. Ease of operation, flexibility and economy make the Holedall™ method an unequalled assembly system.

Dixon™'s couplings are available in stainless steel in addition to the standard carbon steel. Coupling end configurations include pipe thread, plain end, grooved or flanged.

Note: Do Not Use Wrench or Vice on Ferrule



Dixon™ Holedall™ stems and ferrules are specifically designed to be used together as a coupling system.
Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon™ Holedall™ products.

Holedall™ Internal Expansion Couplings

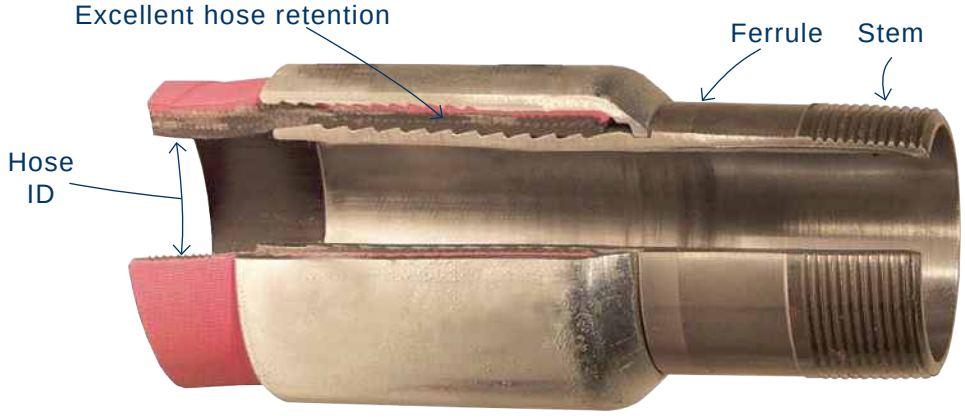
The Dixon™ Internally Expanded Couplings are essential when maximum flow is important. Only one expansion tool is needed for each hose I.D. Some recommended applications of these fittings are: concrete pump hose, plaster and grout hose, oil suction and discharge hose, multi-purpose heavy duty air hose, jetting hose, barge loading hose and bottom loading hose.

BENEFITS OF INTERNAL EXPANSION FITTINGS

- **Available in Stainless Steel and Carbon Steel**
- Maximum flow of media
- Reduction of turbulence through hose
- Excellent sealing and retention characteristics
- Out-performs band clamps
- Easy and consistent installation

END CONFIGURATIONS AVAILABLE

- Male NPT
- Male BSP
- Plain End
- Raised California
- Shouldered & Grooved
  Others available on request

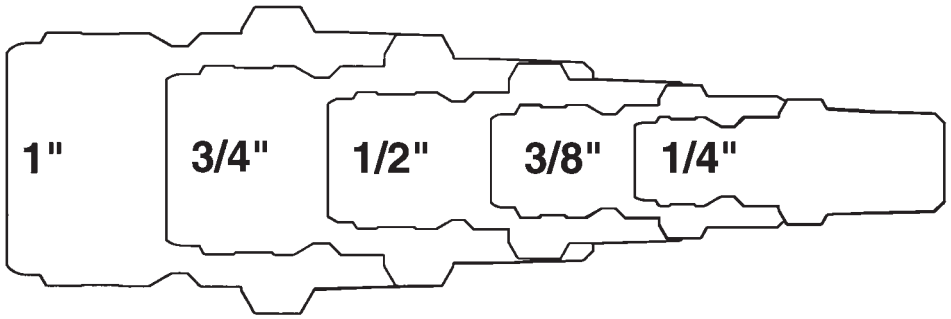


Dixon™ recommends using a diameter tape for determining correct ferrule size. Refer to page 593.

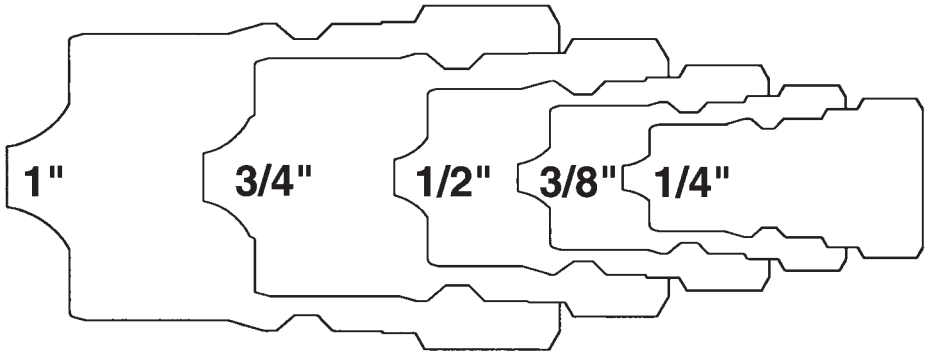


Hydraulic Coupling Profile Chart

Dixon™ Straight Thru Fittings: refer to pages 305-308
Perfecting E Series
Parker ST
Hansen ST

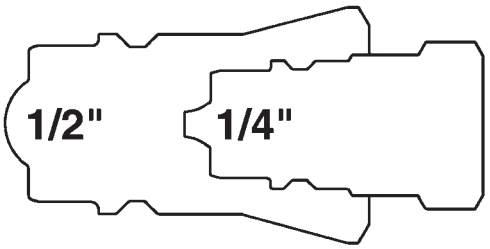


Dixon™ Industrial Fittings: refer to pages 266-270
ISO 7241-B
Perfecting H Series
Hansen HK
Aeroquip FD45
Parker 60



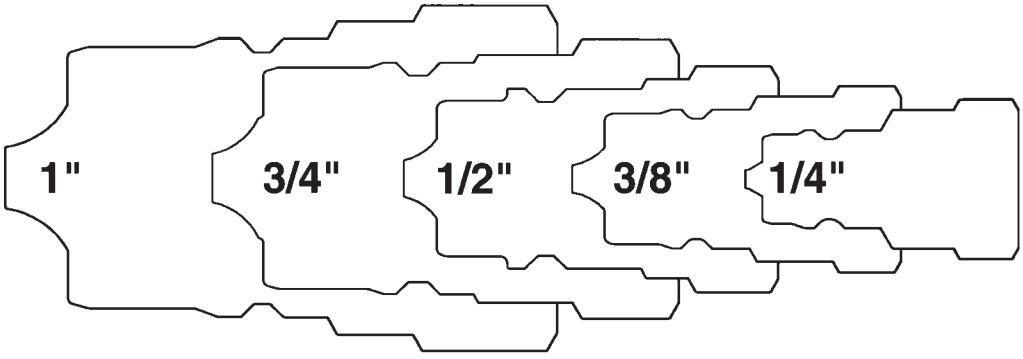
Dixon™ Agricultural Fittings: refer to pages 309-311

Perfecting AG Series
Aeroquip FD76
Parker/Pioneer 4000
Safeway S20



Dixon™ 5600 Series: refer to pages 276-279

ISO 7241-A
Perfecting K Series
Aeroquip 5600
Parker 6600

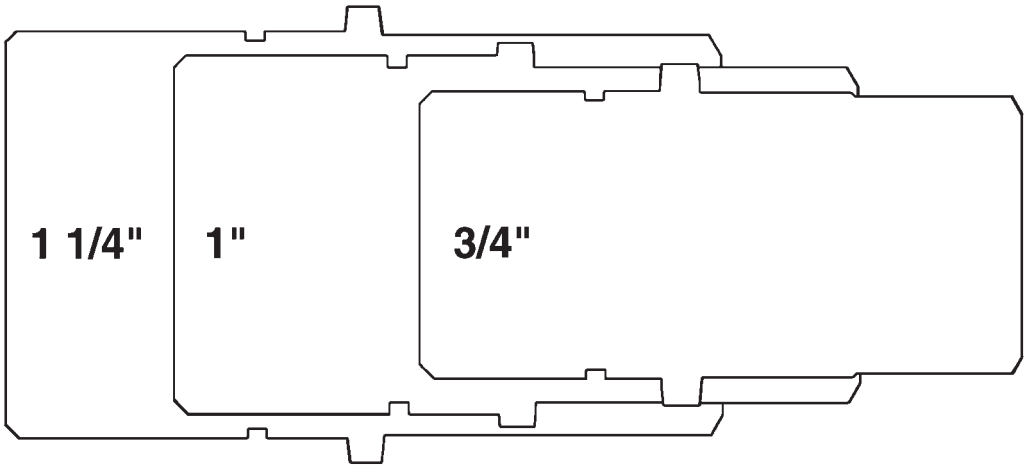


S

Hydraulic Coupling Profile Chart

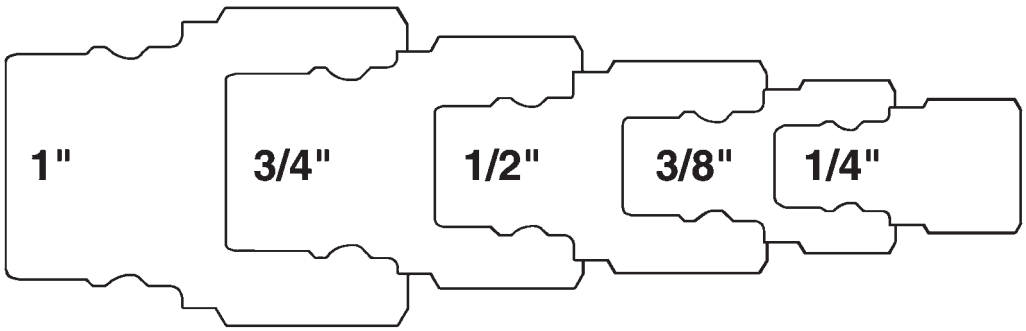
Dixon™ 7800 Series: refer to pages 280-283

Perfecting W Series
Aeroquip 5100
Parker 6100



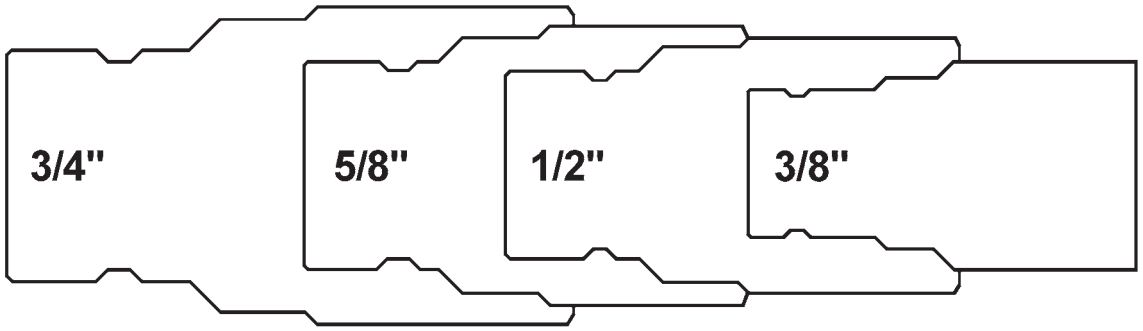
Dixon™ VH Series: refer to pages 322-332

Perfecting V Series
Snap-tite H
Faster TNV



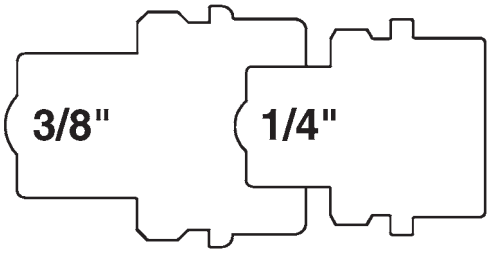
Dixon™ Flush Face Fittings: refer to pages 295-301

Perfecting HT Series
Aeroquip FD49
HTMA Parker FF



Dixon™ 3000 Series: refer to page 312-313

Perfecting T Series
Parker 3000
Enerpac C604



S

Pneumatic Coupling Profiles

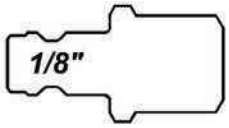
The Pneumatic Manufacturing Cell is delighted to present the Dixon™ 2007 Pneumatic Coupling program.

We are committed to being your primary supplier of pneumatic couplings and to continuous improvement of our product selection, product quality and customer satisfaction. These improvements are as a result of feedback from our customers, letting us know what they expect from their quick coupling supplier.

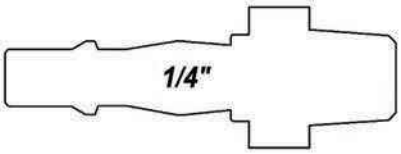
We understand that our success is based upon our ability to continuously improve and respond to our customers who are responding to their customers. Call us whether it is to speak with your Dixon™ representative or the manager of the Pneumatics Cell, we are ready to assist you any time.

Sincerely
The Pneumatic Crew

BR-Series



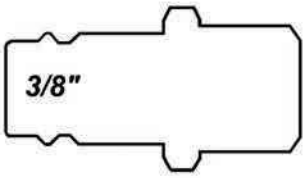
CL-Series

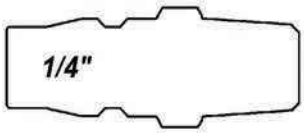


L-Series



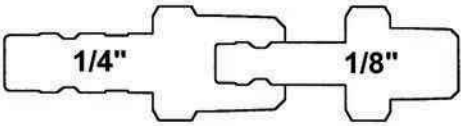
CJ-Series: refer to page 208-210



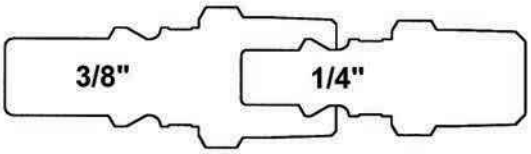


NK-Series: refer to pages 258-259

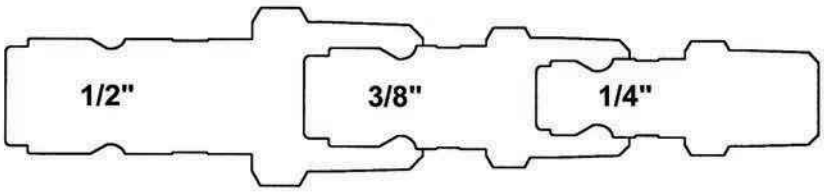
A-Series



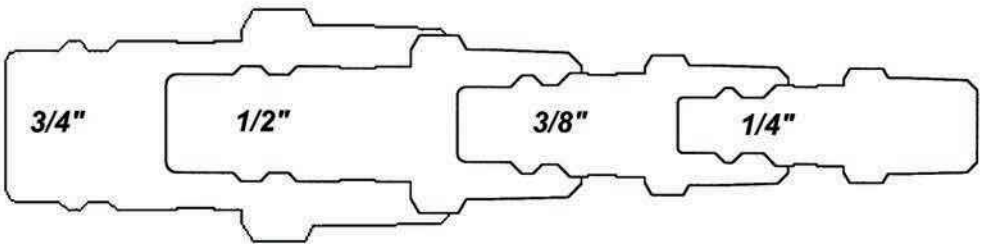
M-Series



J-Series: refer to pages 246-248



DF-Series:
refer to pages 260-265



S

Hose Assemblies

We encourage you to share this information with anyone who may be effected by the selection, installation, maintenance or use of any hose assembly. Always use quality products to BE SAFE.

Hose assemblies must be inspected prior to each use. Worn out fittings, attachment devices, hose and accessory items must be replaced. Retaining and safety devices such as clips, cables or chains must be used. Clamps must be checked regularly to the specified torque found in the Dixon™ literature. Under no circumstance should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction of property and equipment.

For all hose assemblies in use:

Beware

Hose assemblies can be dangerous when used improperly or in the wrong application. The maximum working pressure shown on the hose is not an indication of the working pressure of the assembly.

Based on the hose, fittings and attachment method used, all assemblies should be permanently marked with the designed working pressure and the intended media. The assembly working pressure should be permanently displayed.

Hose assemblies must be used for the intended service only. Never alter manufactured product or substitute component parts

Eliminate

Eliminate hazardous conditions by inspecting, maintaining and testing hose assemblies.

Dixon™ recommends that all hose assemblies be tested in accordance with the hose manufacturer's specifications. The application determines the regularity of the re-testing schedule

Secure

Secure and inspect hose, fittings, clamping devices and safety accessories before each use. Never take for granted that the coupling or attachment devices are properly installed

Always

Always inspect and re-tighten the bolts of any bolt-style clamping device to the manufacturer's torque specifications.

Fittings

Hose and clamping devices that are worn out or damaged must be removed from service.

Educate

Educate your employees about the proper use, care and potential hazards of hose assemblies.

Take advantage of Dixon™'s free Safety Survey Program and the follow up Training Seminar to assist setting up your own inspection program. Contact Dixon™ if you have any questions on applications, use or assembly.

Hose Assemblies

Pressure Ratings

Pressure ratings for couplings, as stated in this catalogue, are based upon ambient temperature (21°C) applications with:

- true hose ID
- new Dixon™ supplied couplings
- new Dixon™ supplied clamps
- new Dixon™ quality hose
- proper installation by a qualified assembler using Dixon™ procedures and equipment

Temperature can affect coupling retention - for temperatures other than ambient (21°C), contact Dixon™.

Product Selection

Many of the products in this catalogue are used in hose assemblies in a variety of applications. The safety of any hose assembly rests on the proper selection, installation, testing and use of each product.

The safe use of any product in this catalogue is dependent upon the correct selection of the hose, fittings and method of attachment. To ensure a correct selection, the user must inform the distributor of the application and pressure involved when ordering hose assemblies. The use of the acronym STAMPED (Size, Temperature, Application, Media, Pressure, Ends, Dixon™) will help in the proper selection of hose assembly components. The selection of couplings and clamping devices is the responsibility of the purchaser or user based upon the hose manufacturer's recommendations. If the purchaser or user is uncertain about the use or application of a product, Dixon™ can provide information including test results (if available), coupling and clamping recommendations and other data to assist.

Installation

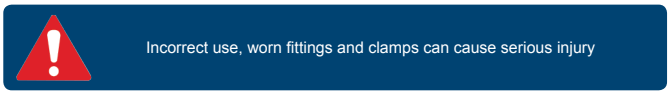
To achieve a safe and reliable assembly, proper installation procedures must be followed. Each component of the assembly plays a part in determining these procedures. The purchaser or user must follow proper procedures. If the purchaser or user has any questions regarding installation please contact Dixon™.

Testing

Dixon™ recommends that all hoses assemblies be tested in accordance with the hose manufacturer's recommendations.

Re-testing and Inspection

Dixon™ recommends inspection and re-testing of hose assemblies on a regular and consistent basis in accordance with the hose manufacturer's recommendations. The application determines the regularity of the inspection and re-testing schedule. Any worn-out or damaged hoses and fittings or missing safety devices should be replaced immediately. Bolt-style clamps must be checked and retightened on a regular and consistent basis.



Hose Assemblies

> "The very properties that make compressed gases useful in almost every area of modern life can also make them dangerous when mishandled. Years of experience with compressed gases have led to practices and equipment which, if employed, result in complete safety."
>
> (source: Handbook of Compressed Gases)

All hose assemblies should be viewed as potential hazards. This document is designed to inform and educate anyone who manufactures, specifies, supplies, purchases, assembles, uses, maintains or tests any hose assembly or its component parts. The proper selection and maintenance of hose, couplings, attachment devices and accessories is imperative.

It is the end users responsibility to inform the distributor of the application and any special conditions that the hose assembly must meet. It is the distributors responsibility to supply the proper assembly for the intended application.

Accidents and down time may occur if hose assemblies are not properly selected for the specific application. The performance and safety of the assembly is affected by the quality of the individual components. The use of the STAMPED method will help in the proper selection of the hose assembly components. When in doubt, Dixon™ is available to assist with the correct the coupling recommendation.

Air Hose Couplings

Air can be one of the most dangerous forms of energy because it is used in so many applications, and when mishandled it can have more serious consequences than fluids. Air as a gas is compressible (fluids press only against hose or vessel walls and lose little volume under pressure). When pressurised air releases suddenly, it does so with explosive force and can cause rapid hose whip, which can cause serious physical harm to personnel or damage to nearby objects. This is why selecting the correct hose and couplings for air lines, and their proper installation and maintenance, is so important. Never take for granted that a coupling is connected correctly or that a clamp is fully tightened on an air hose - check it regularly and use safety devices.

Steam & Gas

The same rules apply for steam and gas as they do for air. As steam and gas are inherently more hazardous, personnel should treat the hose and couplings on these lines with more care and respect. Checking clamp tightness is very important with steam hose, where it is not unusual for clamps to loosen in service, in which case they MUST BE RETIGHTENED! Safety devices should also be used. Hose assemblies for steam must only use components specifically nominated for steam service.

Fluid Hose Couplings

Again, nothing should be taken for granted. In particular check clamps for tightness each time the lines are used, especially when petroleum products or other hazardous liquids are involved. When large diameter hose is suspended, it can be quite dangerous if it drops unexpectedly due to a coupling "pull-out" or sudden disconnection. A heavy fitting or clamp, plus the weight of the hose itself falling from any height can cause injuries or damage. Be sure to use safety devices.

All Hose Assemblies

All hose assemblies should be treated with respect and as a potential hazard. Worn-out fittings should be replaced. Retaining devices such as clips, cables or chains should be used, and clamps should be checked regularly. Under no circumstances should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction of property and equipment.



WARNING
Proper Selection, Care, Use and Maintenance of Hose Couplings and Accessory Items
Failure to use these procedures can result in serious injury or death, and destruction of property and equipment.

Pressure Recommendations

The images shown on these two pages are provided to assist in coupling and clamp or ferrule identification for the pressure recommendation chart on pages 635-638.

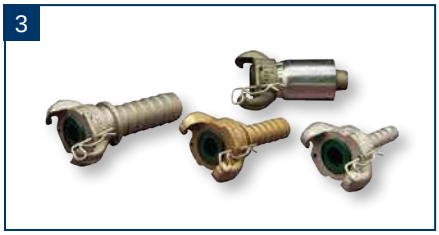
Couplings

1

Dixon™ Cam & Groove

2

Boss™ Couplings

3

Air King™ Universal

4

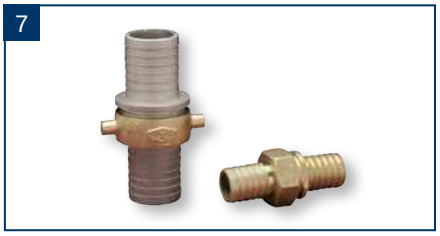
King™ Machined Medium Shank

5

King™ Machined Long Shank

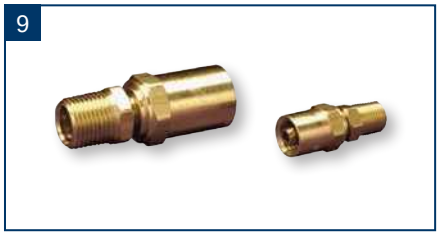
6

Machined Short Shank

7

Cast Short Shank

8

Push-On

9

Reusable Brass

10

Holedall™ Swage / Crimp

11

Holedall™ Internal Expansion

12

Flow Chief / Sanitary

13

Holedall™ Internal Expansion Petroleum

14

King Crimp™ Couplings

S

Pressure Recommendations

⚠WARNING

1. The chart on pages 635-638 is intended as a guide only. It only applies to metal couplings as shown for ambient temperature 21°C (**70°F**) applications with true ID hose. It assumes new Dixon™ supplied couplings, new Dixon™ supplied clamps, new quality hose and proper installation by a qualified assembler using Dixon™ procedures and equipment. Temperature can affect the coupling retention. For questions relating to temperatures other than ambient 21°C (**70°F**) contact the hose manufacturer or Dixon™ at 1300 134 651.
2. This chart does not apply to non-Dixon™ products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.
3. Do not use this chart if it conflicts with the hose manufacturer's recommendations.
4. All hose assemblies should be pressure tested to hose manufacturers or Rubber Manufacturers Association (RMA) specifications prior to being put into service.
5. Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please call Dixon™ at 1300 134 651 for assistance.
6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon™ recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure of the lowest rated component (coupling, clamp, ferrule or hose).

Clamps and Ferrules

A



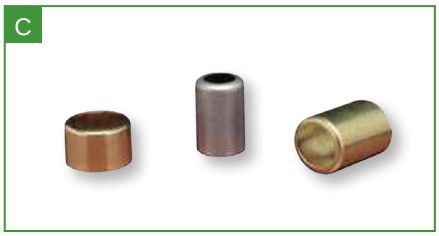
Boss™ Interlocking Clamps

B



Air King™ Interlocking Clamps

C



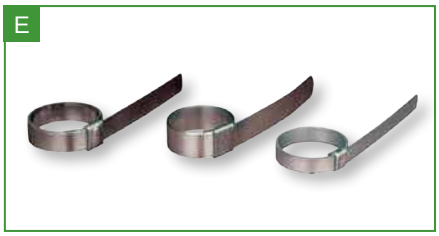
Light Duty Ferrules

D



Band & Buckle

E



Preformed Clamps

F



Double Bolt Clamps

G



Swage / Crimp

H



Internal Expansion

I



Internal Expansion Petroleum

J



King Crimp™ Sleeve

K



King Crimp™ Ferrule

S

Dixon™ Hose Assembly Pressure Recommendation Chart

Mark hose assembly with pressure from this chart or the hose working pressure, whichever is lower.

All pressure recommendations are in pounds per square inch (PSI)

1. This chart is intended as a guide only. It only applies to metal couplings as shown for ambient temperature (21°C) applications with true ID hose. It assumes new Dixon™ supplied couplings, new Dixon™ supplied clamps, new quality hose and proper installation by a qualified assembler using Dixon™ procedures and equipment. Temperature can affect the coupling retention. For questions relating to temperatures other than ambient (21°C) contact your local Dixon™ branch.
2. This chart does not apply to non-Dixon™ products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.
3. Do not use this chart if it conflicts with the hose manufacturer's recommendations.
4. All hose assemblies should be pressure tested to Australian Standards or Rubber Manufacturers Association (RMA) specifications prior to being put into service.
5 Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please contact your local Dixon™ branch for assistance.

Hose (rubber covered)	Couplings	Clamps & Ferrules	Assembly Procedure *	Max Recommended WP PSI				
				1/4"	3/8"	1/2"	5/8"	3/4"
Air textile reinforced rubber lined	Air King™ Universal	Preformed Band Clamp	2102			150	150	150
	Brass Nut & Tail - Combination Nipples	Crimp	2304	200	150	150	100	100
	Machined - Short Shank	Preformed Band Clamp	2100-2101			150	100	100
	Reusable - Brass	N/A	2305	250	250	250		
	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			250	200	200
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101			300	300	300
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
Air textile or wire reinforced rubber lined	Air King™ Universal	Air King™ or Boss™ Interlocking Clamp	2000		150	150		150
	Air King™ Universal	Swage/Crimp	See ADPL			150		150
	Boss™ Couplings	Boss™ Interlocking Clamp	2000-2004	600	600	600		600
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual	600	600	600		600
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
Asphalt & Hot Tar	Boss™ Couplings	Boss™ Interlocking Clamp	2001-2002					
Chemical plastic lined for liquid service	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			125		125
	King™ Machined - Medium Shank	Band & Buckle	2104					
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101			150		150
	King™ Machined - Long Shank	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101			150		150
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					250
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual			600		600
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Chemical rubber lined for liquid service	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			125		125
	King™ Machined - Medium Shank	Band & Buckle	2104					
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101			150		150
	King™ Machined - Long Shank	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					250
	Boss™ Couplings	Boss™ Interlocking Clamp	2000-2004			600		600
	Holedall™ Internal Expansion	Internal Expansion	see Ram Manual					
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual			600		600
Food Grade conforming to 3A	Flow Chief Sanitary	Internal Expansion	see Ram Manual					
Food Grade rubber lined	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			125		125
	King™ Machined - Medium Shank	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					250
	Holedall™ Internal Expansion Holedall™	Internal Expansion	see Ram Manual					
	Swage/Crimp	Swage/Crimp	see Ram Manual			600		600
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Layflat	Bauer Coupling Standard	Wire Whipping						
	Bauer Coupling	Preformed Band Clamp						
	Camlock	Preformed Band Clamp						
Material Handling rubber lined	Cast Short Shank	Preformed Band Clamp	2100-2101					
	Cast Short Shank	Band & Buckle	2104					

* Procedures can be found on dixonvalve.com or by calling 1300 134 651.

6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon™ recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure or the working temperature of the lowest rated component (coupling, clamp, ferrule or hose).
8. For further safety information, refer to this section of the catalogue, or contact your local Dixon™ branch
4. All hose assemblies should be pressure tested to Australian Standards or Rubber Manufacturers Association (RMA) specifications prior to being put into service.
5 Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please contact your local Dixon™ branch for assistance.

6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon™ recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure or the working temperature of the lowest rated component (coupling, clamp, ferrule or hose).
8. For further safety information, refer to this section of the catalogue, or contact your local Dixon™ branch

Max Recommended WP PSI									Special Notes
1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	
150									(2) bands on 5/8" or larger; Must use mating Dixon™ Air King™ fittings with safety clip installed.
100									
100									(2) bands on 1/2" to 1"
150									
300									
400		350	300		300	300		230	(13) crimp length would be full length
150									Must use mating Dixon™ Air King™ fittings with safety clip installed.
150									Coupling and Ferrule are sold assembled. Must use mating Dixon™ Air King™ fittings with safety clip installed.
600	600	600	600	450	450	250		250	
600	600	600	600	600	600	500	450	400	
400		350	300		300	300		230	(13) crimp length would be full length
200	200	200	200	200	200	200	200	200	Consult Dixon™
125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
250	250	250	250	150	125	100			
	250	250	250	150	125	100			
250		250	250		125	100			Requires properly matched Stem and Ferrule.
600	600	600	600	600	600	500			
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
250	250	250	250	150	125	100			
	250	250	250	150	125	100			
250		250	250		125	100			Requires properly matched Stem and Ferrule.
600	600	600	600	450	450	250			
800	800	800	800	600	600	500			Consult Dixon™ for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
600	600	600	600	600	600	500			
		250	250		250				Use Stainless Steel Food Grade Ferrule ONLY.
125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
250	250	250	250	150	125	100	75	75	
	250	250	250	150	125	100	75	75	
250		250	250		125	100			Requires properly matched Stem and Ferrule.
250		250	250	250	250	200			
600	600	600	600	600	600	500	450	400	
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
		300	250	250	250	225		150	To be used as a set ONLY. 6" Cam & Groove couplings are rated to 75PSI.
		75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"
		75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"

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Hose (rubber covered)	Couplings	Clamps & Ferrules	Assembly Procedure *	Max Recommended WP PSI				
				1/4"	3/8"	1/2"	5/8"	3/4"
Material Handling rubber lined (continued)	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101					
	King™ Machined - Medium Shank	Band & Buckle	2104					
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101					
	King™ Machined - Long Shank	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101					
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual					
	Holedall™ Internal Expansion	Internal Expansion	see Ram Manual					
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Material Handling no helical wire rubber lined	Cast Short Shank	Double Bolt Clamp	2201					
	King™ Machined - Medium Shank	Double Bolt Clamp	2201					
	King™ Machined - Long Shank	Double Bolt Clamp	2201					
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Material Handling cement rubber lined	Boss™ Couplings	Boss™ Interlocking Clamp	2000-2004					
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual					
	Holedall™ Internal Expansion	Internal Expansion	see Ram Manual					
Petroleum Transfer	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			125		125
	King™ Machined - Medium Shank	Band & Buckle	2104					
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101			150		150
	King™ Machined - Long Shank	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					250
	Holedall™ Internal Expansion	Internal Expansion	see Ram Manual					
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual			600		600
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Air Craft Refueling conforming to API 1529	Holedall™ Internal Expansion - Petroleum	Internal Expansion - Petroleum	see Ram Manual					
Push-On	Push-On	N/A	2001-2002	175	175	175	175	175
Steam	Boss™ Couplings	Boss™ Interlocking Clamp	2000-2004			250		250
Water	Air King™ Universal	Preformed Band Clamp	2100-2101			150	150	150
	Air King™ Universal	Air King™ or Boss™ Interlocking Clamp	2000-2001		150	150		150
	Machined - Short Shank	Preformed Band Clamp	2100-2101			150	100	100
	Machined - Short Shank	Crimp	2304	200	150	150	100	100
	Cast Short Shank	Preformed Band Clamp	2100-2101			150	100	100
	Cast Short Shank	Band & Buckle	2104					
	King™ Machined - Medium Shank	Preformed Band Clamp	2100-2101			250	200	200
	King™ Machined - Long Shank	Preformed Band Clamp	2100-2101			300	300	300
	Andrews/Boss-Lock™ Cam & Groove	Preformed Band Clamp	2100-2101			150		250
	Andrews/Boss-Lock™ Cam & Groove	Band & Buckle	2104					
	Andrews/Boss-Lock™ Cam & Groove	Swage/Crimp	see Ram Manual					250
	Boss™ Couplings	Boss™ Interlocking Clamp	2000-2002	600	600	600		600
	Holedall™ Swage/Crimp	Swage/Crimp	see Ram Manual	600	600	600		600
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					
Water no helical wire	Cast Short Shank	Double Bolt Clamp	2201					
	King™ Machined - Medium Shank	Double Bolt Clamp	2201					
	King™ Machined - Long Shank	Double Bolt Clamp	2201					
	King Crimp™ ST - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ ST - Sleeve	King Crimp™ Sleeve	4200					
	King Crimp™ Cam & Groove - Ferrule	King Crimp™ Ferrule	4201					
	King Crimp™ Cam & Groove - Sleeve	King Crimp™ Sleeve	4200					

Max Recommended WP PSI									Special Notes
1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	
		125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; except for KHN, KRN & PF nipples
		125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; except for KHN, KRN & PF nipples
		150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
		150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
		250	250	150	125	100	75	75	
		250	250	150	125	100	75	75	
		250	250		125	100			Requires properly matched Stem and Ferrule.
		600	600	600	600	500	450	400	
		800	800	600	600	500		400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules. Internal Expansion is NOT recommended for XLPE, UHMWPE & Gum Rubber lined hoses.
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
		75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest
		125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest; except for KHN, KRN & PF nipples
		150	125	100	75	75			(3) double bolt clamps on all sizes; except for KHN & KRN nipples
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
600	600	600	600	450	450	250		250	Cement will erode ID
600	600	600	600	600	600	500	450	400	Cement will erode ID
800	800	800	800	600	600	500		400	Cement will erode ID Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest; except for KHN, KRN & PF nipples
150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest; except for KHN & KRN nipples
250	250	250	250	150	125	100	75	75	
	250	250	250	150	125	100	75	75	
250		250	250		125	100			Requires properly matched Stem and Ferrule.
800	800	800	800	600	600	500		400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
600	600	600	600	600	600	500	450	400	
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
300	300	300	300	300	300	300			
									Push-On fittings should ONLY be used on Push-On hose.
250	250	250	250	250	250	250		250	
150									(2) bands on 5/8" or larger; Must use mating Dixon™ Air King™ fittings with safety clip installed.
150									Must use mating Dixon™ Air King™ fittings with safety clip installed.
100									
100									(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
100	75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
	75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
150	150	125	75	75	50	50	25	25	(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest; except for KHN & KRN nipples
300	300	150	125	100	75	75			
250	250	250	250	150	125	100	75	75	
	250	250	250	150	125	100	75	75	Requires properly matched Stem and Ferrule.
250		250	250		125	100			
600	600	600	600	450	450	250		250	
600	600	600	600	600	600	500	450	400	
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length
		75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest
		125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest; except for KHN, KRN & PF nipples
		150	125	100	75	75			(3) double bolt clamps on all sizes; except for KHN & KRN nipples
400		350	300		300	300		230	(13) crimp length would be full length
400		300	250		200	175		75	(13) crimp length would be full length
250		250	250		150	150		75	(13) crimp length would be full length
250		250	250		125	110		75	(13) crimp length would be full length

Identifying Pipe Threads

IT IS IMPORTANT TO IDENTIFY THE THREADS. REQUIRED BEFORE ORDERING COUPLINGS!

Identifying threads can sometimes be the most difficult and frustrating part of coupling selection. However, without the right combination of threads, you may not provide a functional or safe connection.

The diameters, threads per inch (TPI) and thread pitch, etc are necessary to completely identify a thread. Ring, Plug and GO/NOGO gauges are required to accurately gauge or identify threads. In the field, in the absence of these gauges, thread leaf gauges can be used to identify the **"Threads Per Inch" (TPI)** and the thread pitch. On threads you have determined to be straight threads, a caliper can be used to measure the **"Outside Diameter of the Male" (ODM)** or the **"Inside Diameter of the Female" (IDF)**. A caliper can also be used to take measurements of tapered thread diameters. However, these are more difficult to define because of the taper. Fortunately, there are few tapered threads to deal with and these can usually be identified from the nominal ODM and the TPI.

However, identifying the thread may not fully identify what is needed in a mating fitting. The application is the primary **limiting factor on the thread type used**. Dixon™ offers products with a wide variety of threads used with hose, pipe and hydraulics.

When attempting to choose a fitting, it is always advisable to first identify the thread to which it must connect. This may entail checking with a fitting or equipment manufacturer.

The fire hose thread specifications for some local municipal fire equipment and hydrants may vary according to local specifications. These can generally be most easily identified by contacting the local fire department responsible for the hydrant. The most common thread used on fire equipment is National Standard Thread (NST), also known as National Hose thread (NH).

When it is not possible to identify the thread:

1) Determine the number of threads per inch by measuring the distance from peak of thread to peak of thread across the largest number of whole threads. Then divide the number of threads by the measurement (this will provide the TPI).

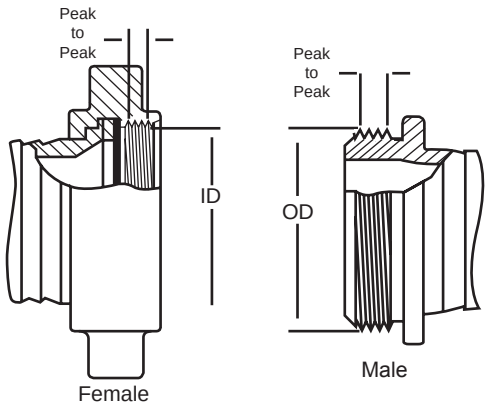
2) Check to see if the thread is straight or tapered.

a) Straight Threads
Measure the "Outside Diameter of the Male" (ODM) or the "Inside Diameter of the Female" (IDF), from peak of thread to peak of thread.

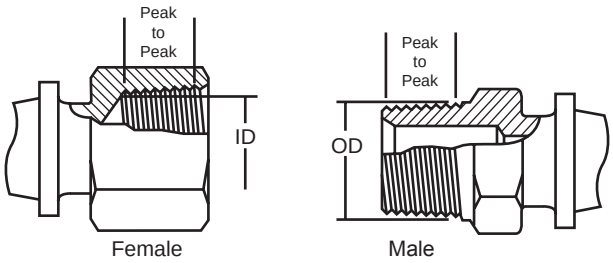
b) Tapered Threads
Measure the "Outside Diameter of the Male" (ODM) at the large end and the small end, or the "Inside Diameter of the Female" (IDF) at the large end and the small end, from peak of thread to peak of thread. Then measure the Outside Diameter (OD) of the unthreaded pipe.

Once the application and these two pieces of information have been determined, the thread can generally be determined.
If in doubt, contact your local Dixon™ office.

STRAIGHT THREAD



TAPERED THREAD



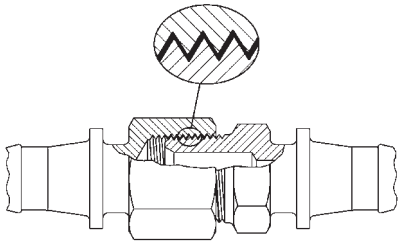
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Pipe Threading Information

Abbreviation	System Name	Compatibility	Seal Method
BSPP	**B**ritish **S**tandard **P**ipe **P**arallel	Male BSPP with Female BSPP Female BSPP with Male BSPP Female BSPP with Male BSPTr	Washer Washer Washer
BSPTr	**B**ritish **S**tandard **P**ipe **T**aper	Male BSPTr with Female BSPTr Male BSPTr with Female BSPP Female BSPTr with Male BSPTr *Female BSPTr not compatible with Male BSPP*	Thread Washer Thread
CHT	American Standard Fire Hose Thread (1" National Hose Thread is **C**hemical **H**ose **T**hread, also known as Booster Hose Thread)v	1" Male NH (NST) with 1" Female NH (NST) 1"Female NH (NST) with 1" Male NH (NST) 1" Thread is used on both 3/4" hose and 1" hose. *Not compatible with other systems*	Washer Washer
GHT	**G**arden **H**ose **T**hread	Male GHT with Female GHT Female GHT with Male GHT Thread is same for all size hose *Not compatible with other systems*	Washer Washer
IPS	**I**ron **P**ipe **S**traight **T**hread	Generic Name for Straight Pipe Thread See NPSH for compatibility	Washer
IPT	**I**ron **P**ipe **T**hread	Generic Name for All Pipe Thread	
JIC	**J**oint **I**ndustrial **C**ouncil	Used with other mating JIC threads	Mechanical
NH or NST	American Standard Fire Hose Coupling Thread (**N**ational **H**ose thread also known as **N**ational **S**tandard **T**hread)		Washer Washer
NPT	American Standard Taper Pipe Thread (**N**ational **P**ipe **T**apered)	Male NPT with Female NPT Male NPT with Female NPTF Male NPT with Female NPSM Male NPT with Female NPSH Female NPT with Male NPT Female NPT with Male NPTF Female NPT not compatible with Male NPSM or Male NPSH	Thread Thread Washer Washer Thread Thread
NPTF	American Standard Taper Pipe Fuel Dryseal Thread	Male NPTF with Female NPTF Male NPTF with Female NPT Male NPTF with Female NPSM Male NPTF with Female NPSH Female NPTF with Male NPTF Female NPTF with Male NPT Female NPTF with Male NPSM or NPSH ***Note:*** *NPTF with NPTF threads do not require sealant for the initial use. After that, sealant is required.*	Thread Thread Washer Washer Thread Thread Not Compatible
NPSH	American Standard Straight Pipe for Hose Couplings (**N**ational **P**ipe **S**traight **H**ose)	Male NPSH with Female NPSH Female NPSH with Male NPSH Female NPSH with Male NPT Female NPSH with Male NPTF Female NPSH with Male NPSM	Washer Washer Washer Washer Washer
NPSM	American Standard Straight Mechanical Joints (**N**ational **P**ipe **S**traight **M**echanical)	Male NPSM with Female NPSM Male NPSM with Female NPSH Female NPSM with Male NPSM Female NPSM with Male NPT Female NPSM with Male NPTF	Seal can be either mechanical or washer. Mating fittings must be of same type.
SIPT	**S**traight **I**ron **P**ipe **T**hread	Generic name for Straight Pipe Thread	Washer
TIPT	**T**apered **I**ron **P**ipe **T**hread	Generic name for Tapered Pipe Thread	Thread

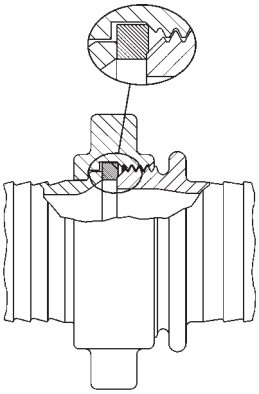
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Pipe Thread Sealing Tips



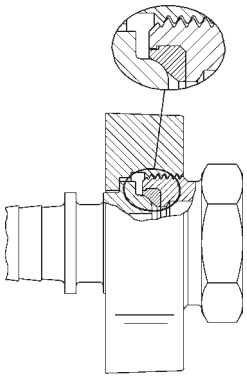
Thread Seal Type

- A seal is obtained by applying a sealant to the male thread before engaging.
- The sealant is used to prevent spiral leakage.
- Thread tape or paste is the preferred sealant in this type of application.



Washer Seal Type

- A seal is obtained when the male thread is tightened down onto the washer of the female assembly.
- The washer should be inspected regularly and replaced as needed to prevent leakage.



Mechanical Seal Type

- A seal is obtained through metal to metal contact or metal to seal contact, ie JIC couplings have a metal to metal seal. EZ-Boss™ Ground Joint couplings have a metal to seal contact (as shown above).
- The couplings should be retightened as needed to prevent leakage.

Thread Sealing Tips

Sealing NPT threads can be an exasperating experience if certain techniques are not followed.
The following tips will help alleviate many common problems in thread sealing:

1. Always use some type of sealant (tape or paste) and apply sealant to male thread only. If using a hydraulic sealant, allow sufficient curing time before system is pressurised.

2. When using tape sealant, wrap the threads in a clock-wise motion starting at the first thread and, as layers are applied, work towards the imperfect (vanishing) thread. If the system that the connection being made to cannot tolerate foreign matter (i.e. air systems), leave the first thread exposed and apply the tape sealant as outlined above.

3. When using paste sealant, apply to threads with a brush, using the brush to work the sealant into the threads. Apply enough sealant to fill in all the threads all the way around.

4. When connecting one stainless steel part to another stainless steel part that will require future disassembly, use a thread sealant that is designed for stainless steel. This stainless steel thread sealant is also useful when connecting aluminum to aluminum that needs to be disconnected in the future. These two materials gall easily, and if the correct sealant is not used, it can be next to impossible to disassemble.

5. When connecting parts made of dissimilar metals (ie steel & aluminum), standard tape or paste sealant performs satisfactory.

6. For sizes 2" and below, tape or paste performs satisfactory. When using thread tape, four wraps (covering all necessary threads) is usually sufficient.

7. For sizes 2½" and above, thread paste is recommended. If thread tape is used, eight wraps (covering all necessary threads) is usually sufficient. Apply more wraps if necessary.

8. For stubborn to seal threads, apply a normal coating of thread paste followed by a normal layer of thread tape.

9. For extremely stubborn to seal threads, apply a normal coating of thread paste followed by a single layer of gauze bandage followed by a normal layer of thread tape.

Caution!
When this procedure is done, the connection becomes permanent. Extreme measures will be necessary to disconnect these components. All other measures to seal the threads should be explored prior to use of this technique.

10. Over-tightening threads can be just as detrimental as insufficient tightening. For sizes 2" and below, hand tighten the components and, with a wrench, tighten 3 full turns. For sizes 2½" and above, hand tighten the components and, with a wrench, tighten 2 full turns.

Nominal Dimensions of Standard Pipe Threads

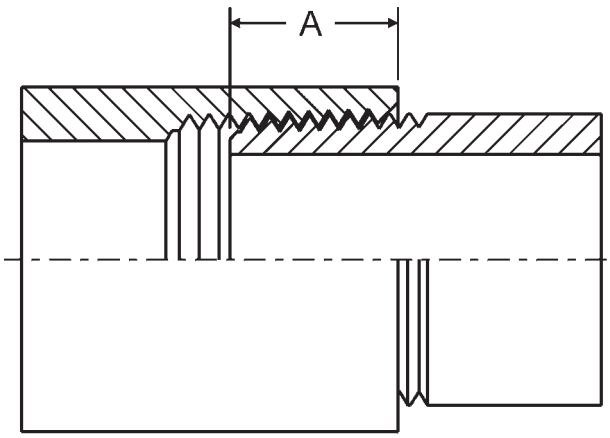
ODM - Outside Diameter of the Male
IDF - Inside Diameter of the Female
TPI - Threads Per Inch

Size (inch)	Pipe OD	Tapered Threads		Straight Threads											
		NPT	BSPT	NPSH			NPSM			NST (NH)			BSPP		
		TPI	TPI	TPI	ODM (*max*)	IDF (*min*)	TPI	ODM (*max*)	IDF (*min*)	TPI	ODM (*max*)	IDF (*min*)	TPI	ODM (*max*)	IDF (*min*)
1/8	.405	27	28	-	-	-	27	0.397	0.358	-	-	-	-	0.383	0.337
1/4	.504	18	19	-	-	-	18	0.526	0.468	-	-	-	-	0.516	0.450
3/8	.675	18	19	-	-	-	18	0.662	0.603	-	-	-	-	0.656	0.588
1/2	.840	14	14	14	0.8248	0.7395	14	0.823	0.747	-	-	-	-	0.825	0.733
3/4	1.050	14	14	14	1.0353	0.9500	14	1.034	0.958	8	1.375	1.2246	-	1.041	0.950
1	1.315	11.5	11	11.5	1.2951	1.1921	11.5	1.293	1.201	8	1.375	1.2246	11	1.309	1.193
1-1/4	1.660	11.5	11	11.5	1.6399	1.5369	11.5	1.638	1.546	-	-	-	11	1.650	1.534
1-1/2	1.900	11.5	11	11.5	1.8788	1.7758	11.5	1.877	1.785	9	1.990	1.8577	-	1.882	1.766
2	2.375	11.5	11	11.5	2.3528	2.2498	11.5	2.351	2.259	-	-	-	11	2.347	2.231
2-1/2	2.875	8	11	8	2.8434	2.6930	8	2.841	2.708	7.5	3.068	2.9104	11	2.960	2.844
3	3.500	8	11	-	-	-	8	3.467	3.334	6	3.623	3.5306	11	3.460	3.344
4	4.500	8	11	-	-	-	8	4.466	4.333	4	5.010	4.7111	-	4.450	4.334
4-1/2	-	-	-	-	-	-	-	-	-	4	5.760	5.4611	11	-	-
5	5.563	8	11	-	-	-	8	5.528	5.395	4	6.260	5.9602	11	5.450	5.359
6	6.625	8	11	-	-	-	8	6.585	6.452	4	7.025	6.7252	-	6.450	6.359
8	8.625	8	-	-	-	-	-	-	-	-	-	-	-	-	-
10	10.750	8	-	-	-	-	-	-	-	-	-	-	-	-	-
12	12.750	8	-	-	-	-	-	-	-	-	-	-	-	-	-

GHT (3/4") - 1.0625 ODM, 11-1/2 TPI

NOTE: Female NPT (Tapered Pipe) thread is not available on hose swivel nuts.
Dimensions in inches.

Normal Engagement Length of NPT Thread in Inches ("A") *



* Dimensions given do not allow for variations in tapping or threading.

Size (inch)	"A" (inch)
1/8	1/4
1/4	3/8
3/8	3/8
1/2	1/2
3/4	9/16
1	11/16
1-1/4	11/16
1-1/2	11/16
2	3/4
2-1/2	15/16
3	1
4	1-1/8
5	1-1/4
6	1-5/16
8	1-7/16
10	1-5/8
12	1-3/4

S

ANSI B16.5 Flanges

(Class 150 & Class 300)

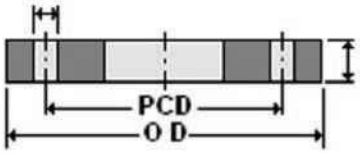
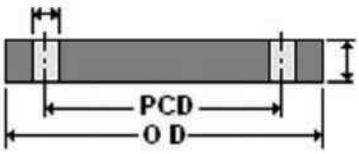


Plate Slip-On Welding



Blank

Nominal Bore Size (inch)	Class	Flange OD (mm)	PCD (mm)	No. of Bolts	Bolt (inch)	Bolt Hole Diameter (mm)	Flange Thickness (mm)
½	150	90	60.5	4	½	16	11.5
	300	95	66.5				14.5
¾	150	100	70	4	½	16	13
	300	120	82.5		⅝	20	16
1	150	110	79.5	4	½	16	14.5
	300	125	89		⅝	20	17.5
1¼	150	120	89	4	½	16	16
	300	135	98.5		⅝	20	19.5
1½	150	127	98.5	4	½	16	17.5
	300	155	114.5		¾	22	21
2	150	150	120.5	4	⅝	20	19.5
	300	165	127	8	⅝	20	22.5
2½	150	180	139.5	4	⅝	20	22.5
	300	190	19	8	¾	22	22.5
3	150	190	152.5	4	⅝	20	24
	300	210	168.5	8	¾	22	29
3½	150	215	178	8	⅝	20	24
	300	230	184		¾	22	30.5
4	150	230	190.5	8	⅝	20	24
	300	255	200		¾	22	32
5	150	255	216	8	¾	22	24
	300	280	235				35
6	150	280	241.3	8	¾	22	25.5
	300	320	270	12			37
8	150	345	298.5	8	¾	22	29
	300	380	330	12	⅞	26	41.5
10	150	405	362	12	⅞	26	30.5
	300	445	387.5	16	1	30	48
12	150	485	432	12	⅞	26	32
	300	520	451	16	1⅛	33	51
14	150	535	476	12	1	30	35
	300	585	514.5	20	1⅛	33	54
16	150	600	540	16	1	30	37
	300	650	571.5	20	1¼	36	57.5
18	150	635	578.5	16	1⅛	33	40
	300	710	628.5	24	1¼	36	60.5
20	150	700	635	20	1⅛	33	43
	300	775	689	24	1¼	36	63.5
24	150	815	749.5	20	1⅛	33	48
	300	915	813	24	1½	42	70
30	150	985	914	28	1¼	35	54
	300	1090	997		1¾	48	92
36	150	1170	1086	32	1½	41	60.3
	300	1270	1168		2	54	105

Flange Table

(Australian Standard 2129)

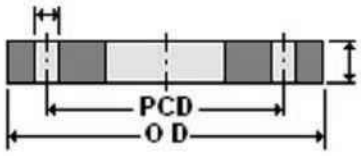
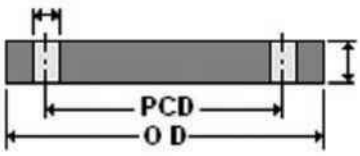


Plate Slip-On Welding

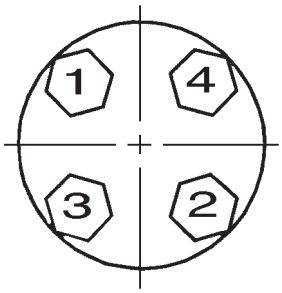


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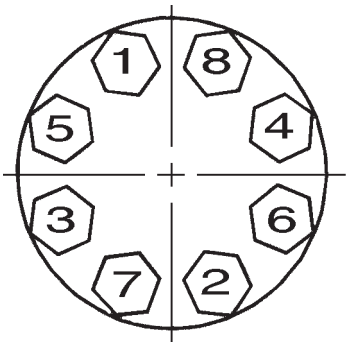
Nominal Bore Size (mm)	Table	Flange OD (mm)	PCD (mm)	No. of Bolts	Bolt	Bolt Hole Diameter (mm)	Flange Thickness (mm)
15	D	95	67	4	M12	14	5
	E						6
20	D	100	73	4	M12	14	5
	E						6
25	D	115	83	4	M12	14	5
	E						7
32	D	120	87	4	M12	14	6
	E						8
40	D	135	98	4	M12	14	6
	E						9
50	D	150	114	4	M16	18	8
	E						10
65	D	165	127	4	M16	18	8
	E						10
80	D	185	146	4	M16	18	10
	E						11
100	D	215	178	4	M16	18	10
	E			8			13
125	D	255	210	8	M16	18	13
	E						14
150	D	280	235	8	M16	18	13
	E				M20	22	17
200	D	335	292	8	M16	18	13
	E				M20	22	19
250	D	405	356	8	M20	22	16
	E			12			22
300	D	455	406	12	M20	22	22
	E				M24	26	25
350	D	525	470	12	M24	26	22
	E						29
400	D	580	521	12	M24	26	22
	E						32
450	D	640	584	12	M24	26	25
	E			16			35
500	D	705	641	16	M24	26	29
	E						38
600	D	825	756	16	M27	30	32
	E				M30	33	48

Flange Bolt Tightening Sequence

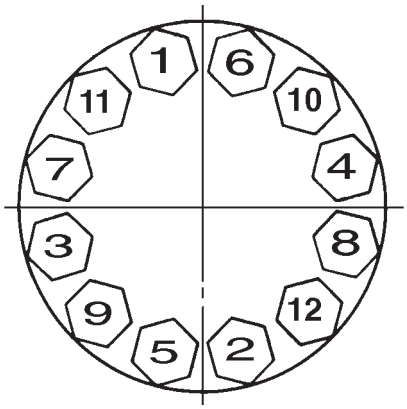
(Use appropriate gaskets and bolts)



4 Bolt

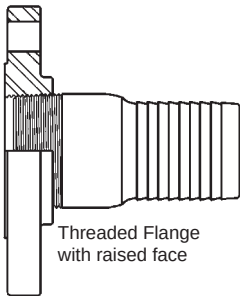


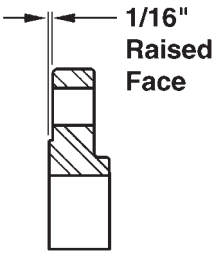
8 Bolt



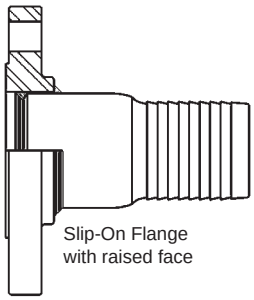
12 Bolt

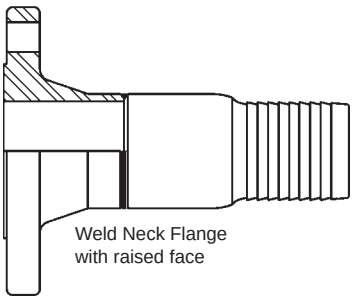
Flange Diagrams - Threaded Applications





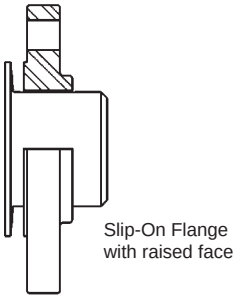
Welded Applications

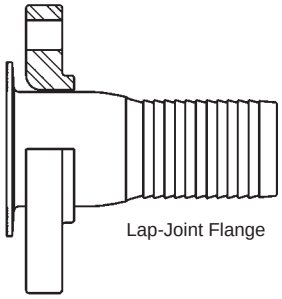




Floating Applications

(Flange Free to Swivel)



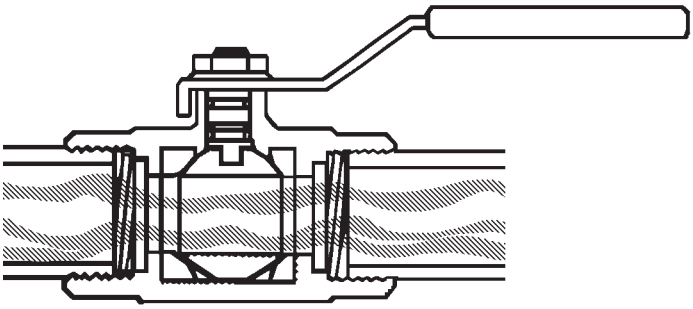


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Valve Selection Guide

Ball Valve

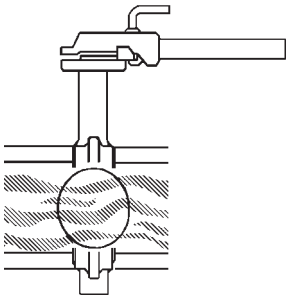




- Can be used for on and off service or throttling.
- When positive shut-off is necessary
- Where a low valve profile is necessary
- Only 90° rotation from open to fully closed quick opening.
- Handle position is a quick indication of whether valve is open or closed.
- Full port ball valves do not resist flow

Butterfly Valve

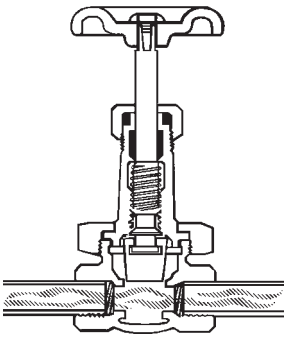




- Where positive shut-off is necessary
- Primarily for fully open or fully closed applications
- May be used for throttling.
- Only 90° rotation from open to fully closed
- Lightweight
- Easy to install
- Less costly than an iron body Gate valve.

Gate Valve

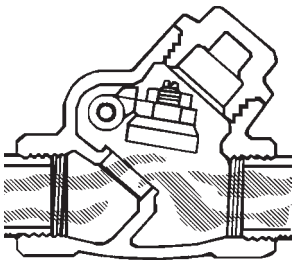




- For fully open or fully closed service NOT FOR THROTTLING
- For minimum line pressure drop
- For minimum fluid entrapment in the line
- For relatively infrequent operation

Check Valve

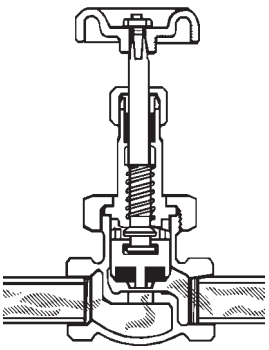




- To control the direction of flow and for quick, automatic reactions to flow change. Swing check valves are used when a minimum resistance to flow is required.
- Swing check valves are recommended for use in conjunction with Gate valves. They should not be used in a rapid recycling system such as reciprocating pumps or air compressor service where they could cause chatter and damaging vibration.

Globe Valve





- For regulation (throttling) of flow
- For frequent operation; short stem travel reduces operator's time
- Where some line resistance is acceptable

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Steam Temperature - Pressure Conversion Guide

Temperature - Pressure Equivalents of Saturated Steam
Gauge Pressure at Sea Level

Temperature		PSI	Temperature		PSI	Temperature		PSI
°F	°C		°F	°C		°F	°C	
212	100.0	0.0	286	141.1	39.4	336	168.9	97.1
214	101.1	0.6	287	141.7	40.3	337	169.4	98.7
216	102.2	1.2	288	142.2	41.1	338	170.0	100.2
218	103.3	1.8	289	142.8	42.0	339	170.6	101.8
220	104.4	2.5	290	143.3	42.9	340	171.1	103.3
222	105.6	3.2	291	143.9	43.8	341	171.7	105.0
224	106.7	3.9	292	144.4	44.7	342	172.2	106.5
226	107.8	4.6	293	145.0	45.6	343	172.8	108.2
228	108.9	5.3	294	145.6	46.5	344	173.3	109.8
230	110.0	6.1	295	146.1	47.5	345	173.9	111.5
232	111.1	6.9	296	146.7	48.4	346	174.4	113.1
234	112.2	7.7	297	147.2	49.4	347	175.0	114.8
236	113.3	8.5	298	147.8	50.3	348	175.6	116.5
238	114.4	9.4	299	148.3	51.3	349	176.1	118.2
240	115.6	10.3	300	148.9	52.3	350	176.7	119.9
242	116.7	11.2	301	149.4	53.4	352	177.8	123.5
244	117.8	12.1	302	150.0	54.4	354	178.9	127.1
246	118.9	13.1	303	150.6	55.4	356	180.0	130.8
248	120.0	14.1	304	151.1	56.4	358	181.1	134.5
250	121.1	15.1	305	151.7	57.5	360	182.2	138.3
252	122.2	16.2	306	152.2	58.6	362	183.3	142.3
254	123.3	17.3	307	152.8	59.7	364	184.4	146.2
256	124.4	18.4	308	153.3	60.7	366	185.6	150.3
258	125.6	19.6	309	153.9	61.9	368	186.7	154.4
260	126.7	20.7	310	154.4	63.0	370	187.8	158.7
261	127.2	21.4	311	155.0	64.2	372	188.9	163.0
262	127.8	22.0	312	155.6	65.3	374	190.0	167.4
263	128.3	22.6	313	156.1	66.5	376	191.1	171.9
264	128.9	23.2	314	156.7	67.6	378	192.2	176.4
265	129.4	23.9	315	157.2	68.8	380	193.3	181.1
266	130.0	24.5	316	157.8	70.0	382	194.4	185.8
267	130.6	25.2	317	158.3	71.3	384	195.6	190.6
268	131.1	25.8	318	158.9	72.5	386	196.7	195.6
269	131.7	26.5	319	159.4	73.7	388	197.8	200.6
270	132.2	27.2	320	160.0	75.0	390	198.9	205.7
271	132.8	27.9	321	160.6	76.3	392	200.0	210.9
272	133.3	28.6	322	161.1	77.5	394	201.1	216.2
273	133.9	29.3	323	161.7	78.8	396	202.2	221.5
274	134.4	30.0	324	162.2	80.1	398	203.3	227.0
275	135.0	30.8	325	162.8	81.5	400	204.4	232.6
276	135.6	31.5	326	163.3	82.8	402	205.5	238.0
277	136.1	32.3	327	163.9	84.2	404	206.7	244.0
278	136.7	33.0	328	164.4	85.6	406	207.8	250.0
279	137.2	33.8	329	165.0	87.0	408	208.9	256.0
280	137.8	34.5	330	165.6	88.4	410	210	262.0
281	138.3	35.3	331	166.1	89.8	412	211.1	268.0
282	138.9	36.1	332	166.7	91.2	414	212.2	275.0
283	139.4	36.9	333	167.2	92.7	416	213.3	281.0
284	140.0	37.7	334	167.8	94.1	418	214.4	288.0
285	140.6	38.6	335	168.3	95.6	420	215.6	294.0

Degrees Celsius = 5/9 (Degrees F -32)

Vacuum Conversions

ATM	PSI	Water		Mercury		Percentage %
		Metre	Feet	mm	inch	
0.1	1.4	1	3' 3 3/8"	73.6	2.9	10
0.2	2.8	2	6' 6 3/4"	147.1	5.8	20
0.3	4.2	3	9' 10 1/8"	220.7	8.7	30
0.4	5.7	4	13' 1 1/2"	294.2	11.6	40
0.5	7.1	5	16' 4 13/16"	367.8	14.5	50
0.6	8.5	6	19' 8 3/16"	441.3	17.4	60
0.7	10.0	7	22' 11 9/16"	514.9	20.3	70
0.8	11.4	8	26' 2 15/16"	588.4	23.2	80
0.9	12.8	9	29' 6 3/8"	662.00	26.0	90
1.0	14.2	10	32' 9 11/16 '	735.5	29.0	100

Feet of Water to Inches of Mercury Conversions

Feet of Water	1	2	4	6	8	10	12	14	16	20	22	24	26	28	30	32	34
Inches of Mercury	0.9	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7	19.4	21.2	23.0	24.8	26.5	28.3	30.0

Pressure Conversions

100 PSI = 6.9 Bar
250 PSI = 17.25 Bar
600 PSI = 41.4 Bar

5 Bar = 72.5 PSI
10 Bar = 145 PSI
25 Bar = 362.5 PSI

Measurement Information

Measures of Pressure:

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

Length Conversion Constants:

Millimeters	x .039370	= Inches	Inches	x 25.4001	= Millimeters
Meters	x 39.370	= Inches	Inches	x .0254	= Meters
Meters	x 3.2808	= Feet	Feet	x .30480	= Meters
Meters	x 1.09361	= Yards	Yards	x .91440	= Meters
Kilometers	x 3,280.8	= Feet	Feet	x .0003048	= Kilometers
Kilometers	x .62137	= Statute Mile	Statute Miles	x 1.60935	= Kilometers
Kilometers	x .53959	= Nautical Miles	Nautical Miles	x 1.85325	= Kilometers

Weight Conversion Constants:

Grams	x .03527	= Ounces (Avd.)	Ounces (Avd.)	x 28.35	= Grams
Grams	x .033818	= Fluid Ounces (Water)	Fluid Ounces (Water)	x 29.57	= Grams
Kilograms	x 35.27	= Ounces (Avd.)	Ounces (Avd.)	x .02835	= Kilograms
Kilograms	x 2.20462	= Pounds (Avd.)	Pounds (Avd.)	x .45359	= Kilograms

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Imperial to Decimal Conversions

	Inches	Millimeters
	1/64	.015625	.3969
1/32		.03125	.7938
	3/64	.046875	1.1906
1/16		.0625	1.5875
	5/64	.078125	1.9844
3/32		.09375	2.3813
	7/64	.109375	2.7781
1/8		.125	3.1750
	9/64	.140625	3.5719
5/32		.15625	3.9688
	11/64	.171875	4.3656
3/16		.1875	4.7625
	13/64	.203125	5.1594
7/32		.21875	5.5563
	15/64	.234375	5.9531
1/4		.250	6.3500
	17/64	.265625	6.7469
9/32		.28125	7.1438
	19/64	.296875	7.5406
5/16		.3125	7.9375
	21/64	.328125	8.3344
11/32		.34375	8.7313
	23/64	.359375	9.1282
3/8		.375	9.5250
	25/64	.390625	9.9219
13/32		.40625	10.3188
	27/64	.421875	10.7157
7/16		.4375	11.1125
	29/64	.453125	11.5094
15/32		.46875	11.9063
	31/64	.484375	12.3032
1/2		.500	12.7001

	Inches	Millimeters
	33/64	.515625	13.0969
17/32		.53125	13.4938
	35/64	.546875	13.8907
9/16		.5625	14.2876
	37/64	.578125	14.6844
19/32		.59375	15.0813
	39/64	.609375	15.4782
5/8		.625	15.8751
	41/64	.640625	16.2719
21/32		.65625	16.6688
	43/64	.671875	17.0657
11/16		.6875	17.4626
	45/64	.703125	17.8594
23/32		.71875	18.2563
	47/64	.734375	18.6532
3/4		.750	19.0501
	49/64	.765625	19.4470
25/32		.78125	19.8438
	51/64	.796875	20.2407
13/16		.8125	20.6376
	53/64	.828125	21.0345
27/32		.84375	21.4313
	55/64	.859375	21.8282
7/8		.875	22.2251
	57/64	.890625	22.6220
29/32		.90625	23.0188
	59/64	.921875	23.4157
15/16		.9375	23.8126
	61/64	.953125	24.2095
31/32		.96875	24.6063
	63/64	.984375	25.0032
1		1.000	25.4001

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Temperature Conversions

Look up reading in middle/Centre column (°F/°C) . If in degrees Centigrade, read Fahrenheit equivalent in right-hand column; if in degrees Fahrenheit, read Centigrade equivalent in left-hand column.

°C	°F / °C	°F
-73	-100	-148
-68	-90	-130
-62	-80	-112
-57	-70	-94
-51	-60	-76
-46	-50	-58
-40	-40	-40
-34	-30	-22
-29	-20	-4
-23	-10	14
-17.8	0	32
-17.2	1	33.8
-16.7	2	35.6
-16.1	3	37.4
-15.6	4	39.2
-15.0	5	41.0
-14.4	6	42.8
-13.9	7	44.6
-13.3	8	46.4
-12.8	9	48.2
-12.2	10	50.0
-11.7	11	51.8
-11.1	12	53.6
-10.6	13	55.4
-10.0	14	57.2
-9.4	15	59.0
-8.9	16	60.8
-8.3	17	62.6
-7.8	18	64.4
-7.2	19	66.2
-6.7	20	68.0
-6.1	21	69.8
-5.6	22	71.6
-5.0	23	73.4
-4.4	24	75.2
-3.9	25	77.0
-3.3	26	78.8
-2.8	27	80.6
-2.2	28	82.4
-1.7	29	84.2
-1.1	30	86.0
-.6	31	87.8
0	32	89.6
.6	33	91.4
1.1	34	93.2
1.7	35	95.0
2.2	36	96.8
2.8	37	98.6
3.3	38	100.4
3.9	39	102.2
4.4	40	104.0

°C /	°F °C	°F
5.0	41	105.8
5.6	42	107.6
6.1	43	109.4
6.7	44	111.2
7.2	45	113.0
7.8	46	114.8
8.3	47	116.6
8.9	48	118.4
9.4	49	120.2
10.0	50	122.0
10.6	51	123.8
11.1	52	125.6
11.7	53	127.4
12.2	54	129.2
12.8	55	131.0
13.3	56	132.8
13.9	57	134.6
14.4	58	136.4
15.0	59	138.2
15.6	60	140.0
16.1	61	141.8
16.7	62	143.6
17.2	63	145.4
17.8	64	147.2
18.3	65	149.0
18.9	66	150.8
19.4	67	152.6
20.0	68	154.4
20.6	69	156.2
21.1	70	158.0
21.7	71	159.8
22.2	72	161.6
22.8	73	163.4
23.3	74	165.2
23.9	75	167.0
24.4	76	168.8
25.0	77	170.6
25.6	78	172.4
26.1	79	174.2
26.7	80	176.0
27.2	81	177.8
27.8	82	179.6
28.3	83	181.4
28.9	84	183.2
29.4	85	185.0
30.0	86	186.8
30.6	87	188.6
31.1	88	190.4
31.7	89	192.2
32.2	90	194.0
32.8	91	195.8

/ °C	°F °C	°F
33.3	92	197.6
33.9	93	199.4
34.4	94	201.2
35.0	95	203.0
35.6	96	204.8
36.1	97	206.6
36.7	98	208.4
37.2	99	210.2
37.8	100	212.0
43	110	230
49	120	248
54	130	266
60	140	284
66	150	302
71	160	320
77	170	338
82	180	356
88	190	374
93	200	392
99	210	410
100	212	413.6
104	220	428
110	230	446
116	240	464
121	250	482
127	260	500
132	270	518
138	280	536
143	290	554
149	300	572
154	310	590
160	320	608
166	320	626
170	338	640
171	340	644
177	350	662
182	360	680
186	366	691
188	370	698
193	380	716
198	388	730
199	390	734
204	400	752
208	406	763
210	410	770
216	420	788
221	430	806
227	440	824
232	450	842

Theoretical Horsepower to Compress Air

HP = Compressed horsepower
CFM = Air volume in cubic feet per minute
PSI = Air pressure in pounds per square inch (assumes atmospheric pressure) = 14.7 PSI, temperature = 60°F

$$\mathbf{HP} = \mathbf{CFM} \times \mathbf{PSI} \times .0007575$$

Air Volume Discharged from Pipe

CFM = air volume in cubic feet per minute
V = air velocity in feet per second as determined in the equation at the top of this page
A = cross section area of pipe in square feet

$$\mathbf{CFM} = 60VA$$

Boyle's Law

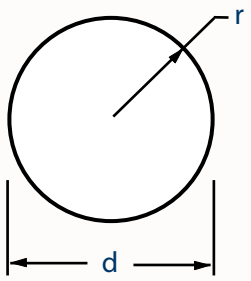
If temperature is kept constant, the volume of a given mass of gas is inversely proportional to the pressure which is exerted upon it.

$$\frac{\text{Initial Pressure}}{\text{Final Pressure}} = \frac{\text{Final Volume}}{\text{Initial Volume}}$$

Circle Geometry

Circumference = $2\pi r = \pi d = 3.14\, d$

Area = $\pi r^2 = \pi \frac{d^2}{4} = .785d^2$



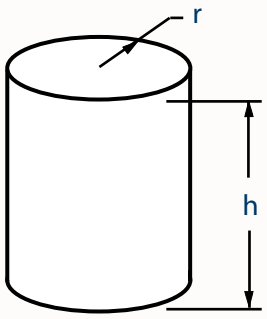
Right Cylinder

r = **r**adius
h = **l**ength

Volume = $\pi r^2 h$

Surface Area = $2\pi r (r + h)$

If end planes are parallel but not at 90° to h, the same formulas apply, but a slice at 90° through the cylinder must be used to determine r.



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Air Line Recommended Sizes

Air Flow CFM	Length of Air Line in Feet			
	50	100	200	300
	Recommended air line size in inches			
1 - 5	½	½	½	½
6 - 10	½	¾	¾	¾
11 - 15	¾	¾	¾	¾
16 - 20	¾	¾	¾	¾
21 - 25	¾	¾	1	1
26 - 30	¾	¾	1	1
31 - 35	¾	1	1	1
36 - 40	1	1	1	1
41 - 59	1	1	1	1
60 - 79	1	1	1¼	1¼
80 - 100	1¼	1¼	1½	1½

King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD		Hose OD	Crimp Diameter	Hose OD		Hose OD	Crimp Diameter
					From	To			From	To		
1" Hose ID Imperial Hose = 25.4mm	100-C-AL 100-C-BR 100-C-SS RC100EZCR G100-C-ALCR G100-C-BRCR G100-C-SSCR AL100C BR100C SS100C	100-E-AL 100-E-BR 100-E-SS G100-E-ALCR G100-E-BRCR G100-E-SSCR AL100E BR100E SS100E	ST10CS STC10CS STC10ACS STV10CS STB10CS RST10SS RST10ASS RSTV10SS RST-B10ASS RSTB10SS	CF100-1XX CS100-1XX	1 13/64	1 16/64	1 13/64	32.16	30.56	31.75	30.56	32.47
								32.46			30.96	32.78
								32.77			31.35	33.09
							1 16/64	33.10			31.75	33.39
				CF100-2XX CS100-2XX	1 17/64	1 20/64	1 17/64	33.45	32.15	33.34	32.15	33.77
							1 18/64	33.76			32.54	34.08
							1 19/64	34.09			32.94	34.39
							1 20/64	34.39			33.34	34.70
				CF100-3XX CS100-3XX	1 21/64	1 24/64	1 21/64	34.70	33.73	34.93	33.73	35.01
							1 22/64	35.00			34.13	35.32
							1 23/64	35.31			34.53	35.63
							1 24/64	35.64			36.51	35.94
				CF100-4XX CS100-4XX	1 25/64	1 28/64	1 25/64	36.04	35.32	36.51	35.32	36.35
							1 26/64	36.35			35.72	36.66
							1 27/64	36.65			36.12	36.98
							1 28/64	36.98			36.51	37.29
				CF100-6XX CS100-6XX	1 33/64	1 36/64	1 29/64	37.29	38.50	39.69	36.91	37.60
							1 30/64	37.59			37.31	37.92
							1 31/64	37.92			37.70	38.23
							1 32/64	38.23			38.10	38.54
				CF100-7XX CS100-7XX	1 37/64	1 40/64	1 37/64	39.80	40.08	41.28	40.08	40.11
							1 38/64	40.11			40.48	40.42
							1 39/64	40.41			40.88	40.74
							1 40/64	40.74			41.28	41.05
				CF100-8XX CS100-8XX	1 41/64	1 44/64	1 41/64	41.05	41.67	42.86	41.67	41.36
							1 42/64	41.35			42.07	41.68
							1 43/64	41.68			42.47	41.99
							1 44/64	41.99			42.86	42.31
				CF100-9XX CS100-9XX	1 44/64	1 47/64	1 45/64	42.29	42.86	44.05	43.26	42.62
							1 46/64	42.62			43.66	42.93
							1 47/64	42.93			44.05	43.25
							1 48/64	43.26			44.45	43.56
				CF100-10XX CS100-10XX	1 48/64	1 51/64	1 49/64	43.56	44.45	45.64	44.85	43.87
							1 50/64	43.87			45.24	44.19
							1 51/64	44.20			45.64	44.50
							1 52/64	44.50			46.04	44.81

Hose	Cam & Groove Coupler	Cam & Groove Adapter	KC Nipple	Sleeve & Ferrule	Hose OD		Hose OD	Crimp Diameter	Hose OD		Hose OD	Crimp Diameter
					From	To			From	To		
1¼" Hose ID Imperial Hose = 31.75mm	RC125EZCR	---	STC15CS RST15CS STV15CS RSTV15CS STB15CS RSTB15CS	CS125-3xx CF125-3xx	1 41/64	1 44/64	1 41/64	1.679	41.672	42.863	41.672	42.636
							1 42/64	1.691			42.069	42.95
							1 43/64	1.703			42.466	43.263
							1 44/64	1.716			42.863	43.577
				CS125-4xx CF125-4xx	1 45/64	1 48/64	1 45/64	1.728	43.259	44.450	43.259	43.89
							1 46/64	1.74			43.656	44.204
							1 47/64	1.753			44.053	44.517
							1 48/64	1.765			44.450	44.831
				CS125-5xx CF125-5xx	1 49/64	1 52/64	1 49/64	1.777	44.847	46.038	44.847	45.145
							1 50/64	1.79			45.244	45.458
							1 51/64	1.802			45.641	45.772
							1 52/64	1.814			46.038	46.085
				CS125-6xx CF125-6xx	1 53/64	1 56/64	1 53/64	1.827	46.434	47.625	46.434	46.399
							1 54/64	1.839			46.831	46.712
							1 55/64	1.851			47.228	47.026
							1 56/64	1.864			47.625	47.339

Note: Crimp values are in millimetres (± 0.13mm)

King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD From	Hose OD To	Hose OD	Crimp Diameter	Hose OD From	Hose OD To	Hose OD	Crimp Diameter
1.5" Hose ID Imperial Hose = 38.1mm	150-C-AL 150-C-BR 150-C-SS C150EZCR G150-C-ALCR G150-C-BRCR G150-C-SSCR	150-E-AL 150-E-BR 150-E-SS G150-E-ALCR G150-E-BRCR G150-E-SSCR	STC20CS RST20CS STV20CS RSTV20CS STB20CS RSTB20CS FST20CS RFST20CS	CS150-1xx CF150-1xx	1 41/64	1 44/64	1 41/64	1.726	41.672	42.863	41.672	43.842
							1 21/32	1.738			42.069	44.136
							1 43/64	1.749			42.466	44.429
							1 11/16	1.761			42.863	44.723
				CS150-2xx CF150-2xx	1 45/64	1 48/64	1 45/64	1.778	43.259	44.450	43.259	45.172
							1 23/32	1.79			43.656	45.477
							1 47/64	1.802			44.053	45.783
							1 3/4	1.815			44.450	46.088
				CS150-3xx CF150-3xx	1 49/64	1 52/64	1 49/64	1.829	44.847	46.038	44.847	46.461
							1 25/32	1.841			45.244	46.771
							1 51/64	1.854			45.641	47.08
							1 13/16	1.866			46.038	47.39
				CS150-4xx CF150-4xx	1 53/64	1 56/64	1 53/64	1.878	46.434	47.625	46.434	47.7
							1 27/32	1.89			46.831	48.009
							1 55/64	1.902			47.228	48.319
							1 7/8	1.915			47.625	48.628
				CS150-5xx CF150-5xx	1 57/64	1 60/64	1 57/64	1.931	48.022	49.213	48.022	49.037
							1 29/32	1.943			48.419	49.351
							1 59/64	1.955			48.816	49.664
							1 15/16	1.968			49.213	49.978
				CS150-6xx CF150-6xx	1 61/64	2	1 61/64	1.98	49.609	50.800	49.609	50.291
							1 31/32	1.992			50.006	50.605
							1 63/64	2.005			50.403	50.918
							2	2.017			50.800	51.232
				CS150-7xx CF150-7xx	2 1/64	2 4/64	2 1/64	2.029	51.197	52.388	51.197	51.545
							2 1/32	2.042			51.594	51.859
							2 3/64	2.054			51.991	52.172
							2 1/16	2.066			52.388	52.486
				CS150-8xx CF150-8xx	2 5/64	2 8/64	2 5/64	2.079	52.784	53.975	52.784	52.799
							2 3/32	2.091			53.181	53.113
							2 7/64	2.103			53.578	53.427
							2 1/8	2.116			53.975	53.74
				CS150-9xx CF150-9xx	2 9/64	2 12/64	2 9/64	2.128	54.372	55.563	54.372	54.054
							2 5/32	2.14			54.769	54.367
							2 11/64	2.153			55.166	54.681
							2 3/16	2.165			55.563	54.994
				CS150-10xx CF150-10xx	2 13/64	2 16/64	2 13/64	2.177	55.959	57.150	55.959	55.308
							2 7/32	2.19			56.356	55.621
							2 15/64	2.202			56.753	55.935
							2 1/4	2.215			57.150	56.248
				CS150-11xx CF150-11xx	2 17/64	2 20/64	2 17/64	2.227	57.547	58.738	57.547	56.562
							2 9/32	2.239			57.944	56.875
							2 19/64	2.252			58.341	57.189
							2 5/16	2.264			58.738	57.502
				CS150-12xx CF150-12xx	2 21/64	2 24/64	2 21/64	2.276	59.134	60.325	59.134	57.816
							2 11/32	2.289			59.531	58.129
							2 23/64	2.301			59.928	58.443
							2 3/8	2.313			60.325	58.757

Note: Crimp values are in millimetres (± 0.13mm)

S

King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD		Hose OD	Crimp Diameter	Hose OD		Hose OD	Crimp Diameter
					From	To			From	To		
2" Hose ID Imperial Hose = 50.8mm	200-C-AL 200-C-BR 200-C-SS RC200EZCR G200-C-ALCR G200-C-BRCR G200-C-SSCR AL200AL BR200BR SS200SS	200-E-AL 200-E-BR 200-E-SS G200-E-ALCR G200-E-BRCR G200-E-SSCR AL200E BR200E SS200E	ST20CS STC20CS STC20ACS STV20CS STB20CS RST20SS RST20ASS RSTV20SS RSTB20ASS RSTB20SS	CF200-1XX CS200-1XX	$2^{13}/_{64}$	$2^{16}/_{64}$	$2^{13}/_{64}$	57.86	55.96	57.15	55.96	58.49
							$2^{14}/_{64}$	58.17			56.36	58.79
							$2^{15}/_{64}$	58.47			56.75	59.10
							$2^{16}/_{64}$	58.80			57.15	59.40
				CF200-2XX CS200-2XX	$2^{17}/_{64}$	$2^{20}/_{64}$	$2^{17}/_{64}$	59.16	57.55	58.74	57.55	59.79
							$2^{18}/_{64}$	59.46			57.94	60.09
							$2^{19}/_{64}$	59.79			58.34	60.40
							$2^{20}/_{64}$	60.10			58.74	60.71
				CF200-3XX CS200-3XX	$2^{21}/_{64}$	$2^{24}/_{64}$	$2^{21}/_{64}$	60.40	59.13	60.33	59.13	61.02
							$2^{22}/_{64}$	60.71			59.53	61.33
							$2^{23}/_{64}$	61.01			59.93	61.64
							$2^{24}/_{64}$	61.34			60.33	61.95
				CF200-4XX CS200-4XX	$2^{25}/_{64}$	$2^{28}/_{64}$	$2^{25}/_{64}$	61.75	60.72	61.91	60.72	62.37
							$2^{26}/_{64}$	62.05			61.12	62.68
							$2^{27}/_{64}$	62.10			61.52	63.00
							$2^{28}/_{64}$	62.69			61.91	63.31
				CF200-5XX CS200-5XX	$2^{29}/_{64}$	$2^{32}/_{64}$	$2^{29}/_{64}$	62.99	62.31	63.50	62.31	63.62
							$2^{30}/_{64}$	63.30			62.71	63.94
							$2^{31}/_{64}$	63.63			63.10	64.25
							$2^{32}/_{64}$	63.93			63.50	64.56
				CF200-6XX CS200-6XX	$2^{33}/_{64}$	$2^{36}/_{64}$	$2^{33}/_{64}$	64.24	63.90	65.09	63.90	64.88
							$2^{34}/_{64}$	64.57			64.29	65.19
							$2^{35}/_{64}$	64.87			64.69	65.50
							$2^{36}/_{64}$	65.18			65.09	65.82
				CF200-7XX CS200-7XX	$2^{37}/_{64}$	$2^{40}/_{64}$	$2^{37}/_{64}$	65.51	65.48	66.68	65.48	66.13
							$2^{38}/_{64}$	65.81			65.88	66.44
							$2^{39}/_{64}$	66.12			66.28	66.76
							$2^{40}/_{64}$	66.45			66.68	67.07
				CF200-8XX CS200-8XX	$2^{41}/_{64}$	$2^{44}/_{64}$	$2^{41}/_{64}$	66.75	67.07	68.26	67.07	67.39
							$2^{42}/_{64}$	67.06			67.47	67.70
							$2^{43}/_{64}$	67.39			67.87	68.01
							$2^{44}/_{64}$	67.69			68.26	68.33
				CF200-9XX CS200-9XX	$2^{45}/_{64}$	$2^{48}/_{64}$	$2^{45}/_{64}$	68.00	68.66	69.85	68.66	68.64
							$2^{46}/_{64}$	68.33			69.06	68.95
							$2^{47}/_{64}$	68.63			69.45	69.27
							$2^{48}/_{64}$	68.96			69.85	69.58
				CF200-10XX CS200-10XX	$2^{49}/_{64}$	$2^{52}/_{64}$	$2^{49}/_{64}$	69.27	70.25	71.44	70.25	69.89
							$2^{50}/_{64}$	69.57			70.64	70.21
							$2^{51}/_{64}$	69.90			71.04	70.52
							$2^{52}/_{64}$	70.21			71.44	70.83
				CF200-11XX CS200-11XX	$2^{53}/_{64}$	$2^{56}/_{64}$	$2^{53}/_{64}$	70.51	71.83	73.03	71.83	71.15
							$2^{54}/_{64}$	70.84			72.23	71.46
							$2^{55}/_{64}$	71.15			72.63	71.78
							$2^{56}/_{64}$	71.45			73.03	72.09
				CF200-12XX CS200-12XX	$2^{57}/_{64}$	$2^{60}/_{64}$	$2^{57}/_{64}$	71.78	73.42	74.61	73.42	72.40
							$2^{58}/_{64}$	72.09			73.82	72.72
							$2^{59}/_{64}$	72.39			74.22	73.03
							$2^{60}/_{64}$	72.72			74.61	73.34

Note: Crimp values are in millimetres (± 0.13mm)

King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD		Hose OD	Crimp Diam-eter	Hose OD		Hose OD	Crimp Diameter
					From	To			From	To		
3" Hose ID Imperial Hose = 76.2mm	300-C-AL 300-C-BR 300-C-SS RC300EZCR G300-C-ALCR G300-C-BRCR G300-C-SSCR AL300AL BR300BR SS300SS	300-E-AL 300-E-BR 300-E-SS G300-E-ALCR G300-E-BRCR G300-E-SSCR AL300E BR300E SS300E	ST30CS STC30CS STC30ACS STV30CS STB30CS RST30SS RST30ASS RSTV30SS RSTB30ASS RSTB30SS	CF300-1XX CS300-1XX	3 13/64	3 16/64	3 13/64	84.66	81.36	82.55	81.36	85.59
							3 14/64	84.96			81.76	85.90
							3 15/64	59.87			82.15	86.20
							3 16/64	85.60			82.55	86.51
				CF300-2XX CS300-2XX	3 17/64	3 20/64	3 17/64	85.95	82.95	84.14	82.95	86.89
							3 18/64	86.26			83.34	87.20
							3 19/64	86.59			83.74	87.51
							3 20/64	86.89			84.14	87.82
				CF300-3XX CS300-3XX	3 21/64	3 24/64	3 21/64	87.20	84.53	85.73	84.53	88.13
							3 22/64	87.50			84.93	88.44
							3 23/64	87.81			85.33	88.75
							3 24/64	88.14			85.73	89.06
				CF300-4XX CS300-4XX	3 25/64	3 28/64	3 25/64	88.54	86.12	87.31	86.12	89.48
							3 26/64	88.85			86.52	89.80
							3 27/64	89.15			86.92	90.11
							3 28/64	89.48			87.31	90.42
				CF300-5XX CS300-5XX	3 29/64	3 32/64	3 29/64	89.79	87.71	88.90	87.71	90.74
							3 30/64	90.09			88.11	91.05
							3 31/64	90.42			88.50	91.36
							3 32/64	90.73			88.90	91.68
				CF300-6XX CS300-6XX	3 33/64	3 36/64	3 33/64	91.03	89.30	90.49	89.30	91.99
							3 34/64	91.36			89.69	92.30
							3 35/64	91.67			90.09	92.62
							3 36/64	91.97			90.49	92.93
				CF300-7XX CS300-7XX	3 37/64	3 40/64	3 37/64	92.30	90.88	92.08	90.88	93.24
							3 38/64	92.61			91.28	93.56
							3 39/64	92.91			91.68	93.87
							3 40/64	93.24			92.08	94.19
				CF300-8XX CS300-8XX	3 41/64	3 44/64	3 41/64	93.55	92.47	93.66	92.47	94.50
							3 42/64	93.85			92.87	94.81
							3 43/64	94.18			93.27	95.13
							3 44/64	94.49			93.66	95.44
				CF300-9XX CS300-9XX	3 45/64	3 48/64	3 45/64	94.79	94.06	95.25	94.06	95.75
							3 46/64	95.12			94.46	96.07
							3 47/64	95.43			94.85	96.38
							3 48/64	95.76			95.25	96.69
				CF300-10XX CS300-10XX	3 49/64	3 52/64	3 49/64	96.06	95.65	96.84	95.65	97.01
							3 50/64	96.37			96.04	97.32
							3 51/64	96.70			96.44	97.63
							3 52/64	97.00			96.84	97.95
				CF300-11XX CS300-11XX	3 53/64	3 56/64	3 53/64	97.31	97.23	98.43	97.23	98.26
							3 54/64	97.64			97.63	98.57
							3 55/64	97.94			98.03	98.89
							3 56/64	98.25			98.43	99.20
				CF300-12XX CS300-12XX	3 57/64	3 60/64	3 57/64	98.58	98.82	100.01	98.82	99.52
							3 58/64	98.88			99.22	99.83
							3 59/64	99.19			99.62	100.14
							3 60/64	99.52			100.01	100.46
				CF300-13XX CS300-13XX	3 61/64	4	3 61/64	99.82	100.41	101.60	100.41	100.77
							3 62/64	100.13			100.81	101.08
							3 63/64	100.46			101.20	101.40
							4	100.76			101.60	101.71
				CF300-14XX CS300-14XX	4 1/64	4 4/64	4 1/64	101.07	102.00	103.19	102.00	102.02
							4 2/64	101.40			102.39	102.34
							4 3/64	101.70			102.79	102.65
							4 4/64	102.01			103.19	102.96
				CF300-15XX CS300-15XX	4 5/64	4 8/64	4 5/64	102.34	103.58	104.78	103.58	103.28
							4 6/64	102.64			103.98	103.59
							4 7/64	102.95			104.38	103.90
							4 8/64	103.28			104.78	104.22
				CF300-16XX CS300-16XX	4 9/64	4 12/64	4 9/64	103.58	105.17	106.36	105.17	104.53
							4 10/64	103.89			105.57	104.85
							4 11/64	104.22			105.97	105.16
							4 12/64	104.52			106.36	105.47

Note: Crimp values are in millimetres (± 0.13mm)

King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD		Hose OD	Crimp Diam-eter	Hose OD		Hose OD	Crimp Diameter
					From	To			From	To		
4" Hose ID Imperial Hose = 101.6mm	400-C-AL 400-C-BR 400-C-SS RC400EZCR G400-C-ALCR G400-C-BRCR G400-C-SSCR AL400AL BR400BR SS400SS	400-E-AL 400-E-BR 400-E-SS G400-E-ALCR G400-E-BRCR G400-E-SSCR AL400E BR400E SS400E	ST40CS STC40CS STC40ACS STV40CS STB40CS RST40SS RST40ASS RSTV40SS RSTB40ASS RSTB40SS	CF400-1XX CS400-1XX	4 13/64	4 16/64	4 13/64	110.06	106.76	107.95	106.76	111.30
							4 14/64	110.36			107.16	111.61
							4 15/64	59.87			107.55	111.91
							4 16/64	111.00			107.95	112.22
				CF400-2XX CS400-2XX	4 17/64	4 20/64	4 17/64	111.35	108.35	109.54	108.35	112.61
							4 18/64	111.66			108.74	112.92
							4 19/64	111.99			109.14	113.23
							4 20/64	112.29			109.54	113.54
				CF400-3XX CS400-3XX	4 21/64	4 24/64	4 21/64	112.60	109.93	111.13	106.36	113.84
							4 22/64	112.90			110.33	114.15
							4 23/64	113.21			110.73	114.46
							4 24/64	113.54			111.13	114.77
				CF400-4XX CS400-4XX	4 25/64	4 28/64	4 25/64	113.94	111.52	112.71	111.52	115.20
							4 26/64	114.25			111.92	115.51
							4 27/64	114.55			112.32	115.83
							4 28/64	114.88			112.71	116.14
				CF400-5XX CS400-5XX	4 29/64	4 32/64	4 29/64	115.19	113.11	114.30	113.11	116.45
							4 30/64	115.49			113.51	116.77
							4 31/64	115.82			113.90	117.08
							4 32/64	116.13			114.30	117.39
				CF400-6XX CS400-6XX	4 33/64	4 36/64	4 33/64	116.43	114.70	115.89	114.70	117.71
							4 34/64	116.76			115.09	118.02
							4 35/64	117.07			115.49	118.33
							4 36/64	117.37			115.89	118.65
				CF400-7XX CS400-7XX	4 37/64	4 40/64	4 37/64	117.70	116.28	117.48	116.28	118.96
							4 38/64	118.01			116.68	119.27
							4 39/64	118.31			117.08	119.59
							4 40/64	118.64			117.48	119.90
				CF400-8XX CS400-8XX	4 41/64	4 44/64	4 41/64	118.95	117.87	119.06	117.87	120.21
							4 42/64	119.25			118.27	120.53
							4 43/64	119.58			118.67	120.84
							4 44/64	119.89			119.06	121.16
				CF400-9XX CS400-9XX	4 45/64	4 48/64	4 45/64	120.19	119.46	120.65	119.46	121.47
							4 46/64	120.52			119.86	121.78
							4 47/64	120.83			120.25	122.10
							4 48/64	121.16			120.65	122.41
				CF400-10XX CS400-10XX	4 49/64	4 52/64	4 49/64	121.46	121.05	122.24	121.05	122.72
							4 50/64	121.77			121.44	123.04
							4 51/64	122.10			121.84	123.35
							4 52/64	122.40			122.24	123.66
				CF400-11XX CS400-11XX	4 53/64	4 56/64	4 53/64	122.71	122.63	123.83	122.63	123.98
							4 54/64	123.04			123.03	124.29
							4 55/64	123.34			123.43	124.60
							4 56/64	123.65			123.83	124.92
				CF400-12XX CS400-12XX	4 57/64	4 60/64	4 57/64	123.98	124.22	125.41	124.22	125.23
							4 58/64	124.28			124.62	125.54
							4 59/64	124.59			125.02	125.86
							4 60/64	124.92			125.41	126.17
				CF400-13XX CS400-13XX	4 61/64	5	4 61/64	125.22	125.81	127.00	125.81	126.49
							4 62/64	125.53			126.21	126.80
							4 63/64	125.86			126.60	127.11
							5	126.16			127.00	127.43
				CF400-14XX CS400-14XX	5 1/64	5 4/64	5 1/64	126.47	127.40	128.59	127.40	127.74
							5 2/64	126.80			127.79	128.05
							5 3/64	127.10			128.19	128.37
							5 4/64	127.41			128.59	128.68
				CF400-15XX CS400-15XX	5 5/64	5 8/64	5 5/64	127.74	128.98	130.18	128.98	128.99
							5 6/64	128.04			129.38	129.31
							5 7/64	128.35			129.78	129.62
							5 8/64	128.68			130.18	129.93
				CF400-16XX CS400-16XX	5 9/64	5 12/64	5 9/64	128.98	130.57	131.76	130.57	130.25
							5 10/64	129.29			130.97	130.56
							5 11/64	129.62			131.37	130.87
							5 12/64	129.92			131.76	131.19

Note: Crimp values are in millimetres (± 0.13mm)

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King Crimp™ Recommendation Guide

Hose	Cam & Groove Coupler	Cam & Groove Adaptor	KC Nipple	Ferrule	Hose OD From	Hose OD To	Hose OD	Crimp Diameter	Hose OD From	Hose OD To	Hose OD	Crimp Diameter
6" Hose ID Imperial Hose = 152.44mm	600-C-AL 600-C-BR 600-C-SS RC600EZCR G600-C-ALCR G600-C-BRCR G600-C-SSCR AL600AL BR600BR SS600SS	600-E-AL 600-E-BR 600-E-SS G600-E-ALCR G600-E-BRCR G600-E-SSCR AL600E BR600E SS600E	ST60CS STC60CS STC60ACS STV60CS STB60CS RST60SS RST60ASS RSTV60SS RSTB60ASS RSTB60SS	CF600-1XX CS600-1XX	6 21/64	6 28/64	6 21/64	165.20	157.56	163.51	160.73	167.07
							6 22/64	165.51			161.13	167.38
							6 23/64	165.81			161.53	167.69
							6 24/64	166.14			161.93	168.00
							6 25/64	166.45			162.32	168.31
							6 26/64	166.75			162.72	168.62
							6 27/64	167.06			163.12	168.93
							6 28/64	167.36			163.51	169.24
				CF600-2XX CS600-2XX	6 29/64	6 36/64	6 29/64	167.79	163.91	163.91	163.91	169.69
							6 30/64	168.10			164.31	170.00
							6 31/64	168.43			164.70	170.31
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							6 38/64	170.61			167.48	172.51
							6 39/64	170.92			167.88	172.82
							6 40/64	171.25			168.28	173.14
							6 41/64	171.55			168.67	173.45
							6 42/64	171.86			169.07	173.76
							6 43/64	172.19			169.47	174.08
							6 44/64	172.49			169.86	174.39
				CF600-4XX CS600-4XX	6 45/64	6 52/64	6 45/64	172.80	170.26	173.04	170.26	174.70
							6 46/64	173.13			170.66	175.02
							6 47/64	173.43			171.05	175.33
							6 48/64	173.76			171.45	175.64
							6 49/64	174.07			171.85	175.96
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				CF600-5XX CS600-5XX	6 53/64	6 60/64	6 53/64	175.31	173.43	176.21	173.43	177.21
							6 54/64	175.64			173.83	177.53
							6 55/64	150.55			174.23	177.84
							6 56/64	176.25			174.63	178.15
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							6 63/64	178.46			177.40	180.35
							7	178.77			177.80	180.66
							7 1/64	179.07			178.20	180.97
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							7 3/64	179.71			178.99	181.60
							7 4/64	180.01			179.39	181.92
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							7 6/64	180.64			180.18	182.54
							7 7/64	180.95			180.58	182.86
							7 8/64	181.28			180.98	183.17
							7 9/64	181.58			181.37	183.48
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							7 22/64	185.67			186.53	187.56
							7 23/64	185.98			186.93	187.87
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Note: Crimp values are in millimetres (± 0.13mm)

Glossary of Terms

A

A.N.S.I. American National Standards Institute, Inc.

A.P.I. American Petroleum Institute

A.S.M.E. American Society of Mechanical Engineers

A.S.T.M. American Society for Testing and Materials

Anodise A process for aluminium, similar to zinc or chrome plating steel, in which an aluminium part is electrically charged then, dipped in various chemicals to produce various colours and/or surface hardness.

B

Burst Pressure The pressure at which rupture occurs.

C

Chamfer To cut an angle on the hose tube aid in stem insertion and to prevent the hose end from flaring when a stem is inserted.

Clamp A metal fitting, band or wire used around the outside of a hose end to secure a coupling, fitting or nipple.

Cold Flow Continued deformation or movement of rubber under stress.

Compression Set The deformation that remains in rubber after it has been subjected to and released from stress such as a clamp. The longer the stress is maintained the more definitive the deformation.

Coupling A device at the end or ends of a length of hose that allows a connection to be made.

Crimping The act of forming the metal sleeve or ferrule of a hose fitting with a surrounding series of die segments to compress the hose within the fitting. The crimping process changes the shape of the entire circumference and length simultaneously. Often interchanged with the term “swaged”.

D

Durometer An instrument for measuring the hardness of rubber.

Durometer Hardness A numerical value which indicates the resistance to indentation of the blunt indentor of the durometer.

E

Elastomer Any of various elastic substances resembling rubber.

Expansion Ring Typically refers to a type of fire hose couplings that are attached by expanding a sleeve (usually brass) outward to compress the hose against the wall of the bowl of the coupling.

External Swage (Swaging) A ferrule is passed through a reducing die, usually split, to bring the ferrule O.D. down to a predetermined size (for proper coupling retention) forcing the hose tube down into the stem serrations.

F

Ferrule A collar placed over a hose end to attach the fitting to the hose. The ferrule may be crimped or swaged, forcing the hose against the shank of the coupling, or the shank may be expanded, forcing the hose out against the ferrule, or both.

G

Gripping Finger The part of the clamp that goes over and behind the stem collar to aid in clamp retention.

H

Hard Coat An anodizing process in which the surface hardness of aluminium becomes similar to or greater than that of case hardened steel.

I

Internal Expansion *(I.X.)* A plug (or bullet) is pulled through a stem or a set of blades (fingers) increase the stem I.D. to the plug O.D. or a predetermined setting when using expansion blades (fingers). This forces the stem serrations into the hose tube and the hose cover into the serrations of the ferrule.

J

J.I.C. Joint Industrial Committee

J.I.C. Thread Typically refers to the threads on hydraulic fittings having 37° conical sealing surfaces.

M

M.S.H.A. Mine Safety and Health Administration

N

Nipple The section of the fitting that is inserted into the hose. Also known as the shank of a coupling.

Nominal A dimensional value assigned for the purpose of convenient designation.

O

Operating Pressure The pressure at which system functions. Also known as Working Pressure.
ORB Thread O-ring Boss™ Thread

P

P.S.I. Pounds per square inch

P.S.I.G. Pounds per square inch gauge

Permanent Fitting The type of fitting which, after it is applied, cannot be removed for reuse.

Polymer A macromolecular material formed by the chemical combination of monomers having the same or different chemical composition.

Proof Pressure A specified pressure which exceeds the hose assemblies rated working pressure to indicate its reliability at normal working pressure. Follow R.M.A.'s testing guidelines for specific pressures and duration's for various types of hose.

R

R.M.A. Rubber Manufacturers Association

Reusable Fitting The type of fitting that is designed to be removed from a hose and recoupled on another hose.

S

S.A.E. Society of Automotive Engineers

S.A.E. Threads Similar to J.I.C. except 45° conical sealing surfaces.

S.C.F.M. Standard Cubic Feet per Minute. Typically refers to the amount of compressed air a compressor can produce.

Safety Factor A ratio used to establish the working pressure of a hose based upon the burst pressure.
Typical Safety Factors are as follows:

1. Water hose up to 150 PSI WP: 3 to 1.
2. Hose for all other liquids, solid materials suspended in liquids or air and water hose over 150 PSI WP: 4 to 1.
3. Hose for compressed air and other gases: 4 to 1.
4. Hose for liquid media that immediately changes into gas under standard atmospheric conditions: 5 to 1.
5. Steam hose: 10 to 1.

Serration The part of the shank (stem) that grips the hose tube.

Shank The section of the fitting or coupling that is inserted into the hose.

Sintered Process in which powdered metal is formed in a mold under extreme pressure to form a finished part.

Surge A rapid rise and decrease of internal pressure.

T

Torque Amount of force required to turn an object. Usually measured in inch pounds (in. lbs.) or foot pounds (ft. lbs.)

Tube The innermost part of the hose that's purpose is to contain the media being transported. Usually, rubber compounds or plastics are blended to give the tube specific properties so that it is compatible with certain media.

U

U.H.M.W. Ultra High Molecular Weight. Next generation of chemical hoses after cross-linked polyethylene having a thin tube liner made from extremely dense material giving it excellent chemical resistance properties.

W

W.O.G. Water, Oil, Gas. Pressure rating for valves handling these products. This does not include steam.

W.P. Working Pressure

Working Pressure The maximum pressure to which a hose assembly will be subjected to including pressure surges.

X

X.L.P.E. Cross-Linked Polyethylene. Tube material that has good chemical resistance properties.

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TERMS AND CONDITIONS OF SALE OF DIXON (ASIA) PACIFIC PTY LTD

1. **INTERPRETATION**
In these Conditions:
1.1 "Australian Consumer Law" means the law as set out in Schedule 2 of the Competition and Consumer Act 2010;
1.2 "Buyer" means the buyer specified in the attached Application for Credit Account or if there is no such application, or there is no buyer specified in the application, the purchaser of the Goods from the Company and includes any servants, agents, or contractors acting on behalf of the Buyer where the context permits;
1.3 "Company" means Dixon (Asia Pacific) Pty Ltd ACN 075 100 239 which is the seller of the Goods;
1.4 "Conditions" means these terms and conditions of sale;
1.5 "Consumer" means a "consumer" as that term is defined in Section 3 of the Australian Consumer Law;
1.6 "Consumer Contract" means a contract for supply of Goods by the Company to the Buyer as a Consumer;
1.7 "Consumer Guarantees" means the consumer guarantees under the Australian Consumer Law;
1.8 "Contract" means a contract for the sale and purchase of the Goods in accordance with these Conditions, as evidenced by the acceptance of any Order from the Buyer to the Company;
1.9 "Date of Acceptance" means the date that the Company approves the Application for Credit Account made by the Buyer or otherwise notifies the Buyer that these Conditions apply to the sale of Goods by the Company to the Buyer;
1.10 "Effective Date" means 1 January 2012;
1.11 "Goods" means the products purchased from the Company by the Buyer from time to time and which are the subject of an Order;
1.12 "Implied Terms" means any guarantees, conditions, warranties or other terms implied by any Australian Commonwealth, State or Territory laws (excluding the Australian Consumer Law), or the laws of any other jurisdiction;
1.13 "Order" means any Order for Goods from the Buyer to the Company from time to time in a form acceptable to the Company;
1.14 "PPSA" means the Personal Property Securities Act 2009;
1.15 "Quotation" means a quotation supplied by the Company to the Buyer in respect of the Goods.

2. **GENERAL**
2.1 These Conditions apply to all Goods supplied by the Company as from the Effective Date and the Buyer is deemed to have read and agreed to these Conditions prior to the placing of any Order.
2.2 These Conditions shall prevail over all inconsistencies in an Order and Quotation, unless the Company expressly agrees otherwise and that agreement is acknowledged in writing.
2.3 The Company reserves the right to vary, add or substitute to these Conditions from time to time and any such variations to these Conditions will have effect from the date of publication of such changes to the Company's customers.
2.4 No promise, representation, warranty or undertaking (including any technical advice or assistance provided by the Company to the Buyer in connection with the Buyer's Order for the Goods) other than that which is expressed in these Conditions will bind the Company, unless the Company expressly agrees otherwise in writing.

3. **SHORTAGE AND NON-CONFORMING GOODS**
The Buyer waives any claim for shortage of any Goods delivered or failure to supply Goods conforming with the Order if a claim for short delivery or failure to supply Goods conforming with the Order has not been lodged with the Company within seven (7) days from the date of receipt of Goods by the Buyer. Any claim for shortage of any Goods delivered or failure to supply Goods conforming with the Order must be submitted in writing in a form approved by the Company.

4. **SPECIFICATIONS**
Except where the Goods are purchased under a Consumer Contract:
4.1 All specifications, drawings, and particulars of weights and dimensions submitted or published by the Company are approximate only and any deviation from any of these things does not vitiate any contract with the Company or form grounds for any claim against the Company; and
4.2 The descriptions, illustrations and performances contained in catalogues, price lists and other advertising matter do not form part of the Contract or of the description applied to the Goods.

5. **PERFORMANCE**
Except where the Goods are purchased under a Consumer Contract, any performance figures given by the Company are estimates only. The Company is under no liability for damages for failure of the Goods to attain such figures unless specifically guaranteed in writing. Any such written guarantees are subject to the recognised tolerances applicable to such figures.

6. **DELIVERY**
6.1 The delivery times made known to the Buyer are estimates only and the Company is not liable for late delivery or non-delivery.
6.2 The Buyer may cancel an order for Goods purchased under a Consumer Contract if the Company is unable to deliver the Goods within 90 days of any specified delivery date.
6.3 Except where clause 6.2 applies:
6.3.1 The Company is not liable for any loss, damage or delay occasioned to the Buyer or its customers arising from late or non-delivery of the Goods;
6.3.2 Late delivery or non-delivery does not vary these Conditions or relieve the Buyer from its obligations to accept the Goods and to pay for the Goods.
6.4 The Company may at its option deliver the Goods to the Buyer in any number of installments unless otherwise agreed in writing by the Company.
6.5 Delivery of the Goods will be taken to have occurred when either the Goods are:
6.5.1 Collected by the Buyer or the Buyer's agent; or
6.5.2 Off-loaded at the Buyer's nominated point of delivery.
6.6 The Goods shall be at the risk of the Buyer after delivery.

7. **AUSTRALIAN CONSUMER LAW**
7.1 Where the Contract under which the Buyer purchases the Goods is a Consumer Contract (ie where the Buyer is a Consumer):
7.1.1 The Goods are supplied subject to the Consumer Guarantees;
7.1.2 If the Goods fail to meet any Consumer Guarantee, the Buyer will be entitled to such rights and remedies as are permitted or provided in the Australian Consumer Law for such failure, to the extent that such rights and remedies cannot be lawfully excluded. This may include the right to reject or return the Goods and obtain a refund, have the failure remedied by repair or replacement/substitution or to receive compensation for any reduction in the value of the Goods below the price paid or payable for them;
7.1.3 The Buyer may only exercise any right or remedy for breach of a Consumer Guarantee strictly in accordance with the rights and responsibilities of the Buyer under the Australian Consumer Law;
7.1.4 Where the Goods are not ordinarily acquired for personal, domestic or household use or consumption, then, unless the Company is the manufacturer of the Goods under the Australian Consumer Law, the Company's liability for breach of a Consumer Guarantee is limited at the Company's option to repairing or replacing the Goods, supplying equivalent goods or paying the costs of the repair or replacement of the Goods or of acquiring equivalent goods.
7.2 Where the Buyer resupplies the Goods to a Consumer and the Goods are not ordinarily acquired for personal, domestic or household use or consumption, the Company's liability to the Buyer in connection with any breach of a Consumer Guarantee in respect of the Goods is limited to paying to the Buyer an amount equal to the cost of replacing the Goods, supplying equivalent goods or having the Goods repaired, whichever is the lower amount.

8. **GENERAL LIMITATION ON LIABILITY**
   - 8.1 This clause 8 does not limit the liability of the Company under Consumer Contracts.
   - 8.2 The Company shall not be liable for any guarantee, warranty or representation as to the quality, performance, and fitness for purpose or otherwise of any Goods unless expressed in writing and signed on behalf of the Company and any such warranty or representation shall be limited to its express terms.
   - 8.3 None of the Implied Terms apply to any Contract except to the extent that they cannot be lawfully excluded.
   - 8.4 The Company's liability for breach of any provision of any such Contract or for breach of any Implied Terms which by force of law cannot be excluded from applying to any such Contract is limited at the option of the Company to repairing or re-supplying Goods which have been found defective, or, paying the cost of repairing or re-supplying Goods which have been found defective.
   - 8.5 The Company is not liable in tort for any loss or damages suffered by the Buyer or by any third party.
   - 8.6 In no circumstance whatsoever shall the Company be liable to the Buyer or to any third party for any loss of data or profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss ("Consequential Loss") arising out of the late delivery of Goods or any failure to perform or observe the Company's obligations under any Contract or Implied Terms and the Buyer will keep the Company fully indemnified against any claim made against the Company by a third party for any such Consequential Loss.

9. **PRICES AND GST**
   - 9.1 Unless otherwise stated all prices quoted by the Company are net, exclusive of Goods and Services Tax (GST).
   - 9.2 GST applied to all supplies of Goods made by the Company and the amount payable by the Buyer will be increased by a percentage equal to the prevailing of GST rate at the time of delivery of the Goods.
   - 9.3 Unless otherwise agreed, prices do not include the cost of delivery of Goods.

10. **CREDIT PAYMENT**
    - 10.1 Where an Application for Credit Account is approved for the Buyer, the purchase price of the Goods is payable within thirty (30) days from the end of the month of date of invoice unless other terms of payment are expressly stated on the invoice. If payment is made on or before the due date, the agreed settlement discount (if any) may be deducted from that payment.
    - 10.2 The Company reserves the right to withdraw approval of an Application for Credit Account for the Buyer at any time by notice to the Buyer.
    - 10.3 The Company reserves the right to request such security or additional security for any credit arrangements with the Buyer as the Company shall in its discretion think fit and shall be entitled to withhold supply of any Goods or credit arrangements until such security or additional security is provided by the Buyer.

11. **CASH SALES**
    Where no Application for Credit Account has been approved for the Buyer, or approval of the Application for Credit Account is withdrawn, the purchase price of the Goods must be paid in full on placement of the Order, or where expressly agreed in writing by the Company, on delivery of the Goods.

12. **PAYMENT**
    - 12.1 All amounts payable to the Company by the Buyer must be paid in Australian dollars in any manner required by the Company in writing in full without set-off on or before the due date for payment.
    - 12.2 Any costs or charges incurred by the Company in collecting or attempting to collect overdue amounts must be paid by the Buyer to the Company on demand.
    - 12.3 The Company reserves the right to charge interest at the rate of 12% per annum on all overdue amounts owing to it. Such interest will accrue daily and is payable on demand.
    - 12.4 Payment will not be taken to occur until all cheques tendered in discharge of amounts owing to the Company have been presented and cleared in full.

13. **MINIMUM ORDER & INVOICE**
    All orders will be charged at a minimum price of $35 (excluding the costs of delivery of Goods) notwithstanding that the net value of the Order may be less than $35.

14. **TITLE TO GOODS**
    - 14.1 Title to and property in the Goods will not pass until the Buyer has paid all moneys owed to the Company on any account whatsoever.
    - 14.2 Until the Buyer has paid all moneys owed to the Company:
      - 14.2.1 The Company retains a purchase money security interest in the Goods and the proceeds of sale of the Goods under the PPSA;
      - 14.2.2 The relationship of the Buyer to the Company is as a fiduciary in respect of the Goods and accordingly:
        - 14.2.2.1 The Buyer must store the Goods in such a way that they can be recognised as the property of the Company;
        - 14.2.2.2 Upon re sale of the Goods by the Buyer, the Company will have the right to trace the full proceeds of sale; and
        - 14.2.2.3 The Buyer must account to the Company for such proceeds of sale and the Company may recover from such proceeds of sale any moneys then owing to the Company on any account whatsoever.
      - 14.2.3 The Company reserves the right to enter upon any premises for the purpose of repossessing the Goods without prejudice to any other rights of recovery available and the Buyer grants the Company a licence to enter such premises for the purpose of exercising such right.
    - 14.3 The Buyer must do all things reasonably required by the Company in respect of the registration of the Company's interest in the Goods under this clause or the enforcement of the Company's rights under the PPSA in respect of the goods.
    - 14.4 The Buyer waives any right the Buyer has under the PPSA:
      - 14.4.1 To receive notice in relation to registration of the Company's interest in the Goods under the PPSA; and
      - 14.4.2 To claim damages against the Company under Section 271 of the PPSA.

15. **QUOTATIONS**
    - 15.1 Subject to clause 15.2, all prices quoted for Goods are valid quotes for 30 days from the date of Quotation.
    - 15.2 Quotations are based on the current costs of sourcing the Goods and unless the Company has otherwise agreed, are subject to amendment by the Company before or after the Quotation is made to meet any rise and fall in such costs between the date of Quotation and the date of producing the goods.
    - 15.3 The Company reserves the right to charge the Buyer for any costs incurred as a result of the Buyer varying its Order or the contract correcting any errors or omissions referred to in clause 15.4 or requiring Goods urgently.
    - 15.4 The Company will supply the Goods on the basis of the Order (whether written or oral). The Company will not be responsible for any errors or omissions in relation to the Goods where those errors or omissions result wholly or partially from incomplete or unclear instructions in the Order.

16. **RETURNED GOODS**
    - 16.1 The Company is not under any duty to accept Goods returned by the Buyer and will do so only on terms to be agreed in writing in each individual case.
    - 16.2 The Company may levy a handling charge of either 15% of the Order value or $35 (whichever is greater) for any accepted returns. Goods delivered incorrectly, found to be defective or that fail to meet any Consumer Guarantees will be exempt from this handling charge.
    - 16.3 Nothing in clause 16.1 affects the Buyer's rights under the Australian Consumer Law or in respect of any breach of Implied Terms.

17. **CANCELLATION**
    - 17.1 The Company may cancel any Contract any time before Goods are delivered by giving written notice to the Buyer. On giving such notice, the Company will repay to the Buyer any sums paid in respect of the Goods. The Company will not have any other liability in respect of such cancellation.
    - 17.2 Subject to clause 6.2, the Buyer may not cancel a Contract at any time except with the Company's prior written consent.
    - 17.3 In the event that the Buyer cancels a Contract otherwise than under clause 6.2:
      - 17.3.1 The Company may retain any deposit or other sums paid on account of the Goods; and
      - 17.3.2 If payment for the Goods is not already made in full, the Buyer will be responsible for any losses incurred by the Company in respect of such cancellation (including loss of profits, anticipated savings, economic loss or interruption of business loss or other incidental, consequential or indirect damages).
    - 17.4 In the event the Buyer cancels a Contract under clause 6.2, the Company will repay to the Buyer any sums paid in respect of the Goods. The Company will not have any other liability in respect of such cancellation.

18. **SUSPENSION OR TERMINATION BY THE COMPANY**
    - 18.1 If the Buyer makes a default in any payment due to the Company for any Goods provided by the Company, commits any act of bankruptcy or enters into liquidation whether voluntary or involuntary, the Company may in its absolute discretion, suspend delivery of any Goods to the Buyer or cancel any Contract with the Buyer, without prejudice to its rights hereunder.
    - 18.2 Any default by the Buyer or cancellation, suspension or termination by the Company shall in no way prejudice any rights of the Company against the Buyer whatsoever, including any right to recover any amounts due for the Goods, or the Goods themselves, previously supplied by the Company to the Buyer.

19. **PLACE OF CONTRACT**
    - 19.1 This Contract is made in the State of South Australia.
    - 19.2 The Buyer and Company agree that unless otherwise stipulated by the Company all disputes arising between them shall be submitted to the courts of the State of South Australia and any court competent to hear appeals from those courts of first instance.

20. **MISCELLANEOUS**
    - 20.1 A Contract may be altered in writing signed by each party.
    - 20.2 Unless otherwise provided, a party may in its discretion give (conditionally or unconditionally) or withhold any approval or consent under a Contract.
    - 20.3 A party must not assign or otherwise deal with a Contract or any right under it without the written consent of the other party.
    - 20.4 A Contract constitutes the entire agreement between the parties about its subject matter and supersedes any prior understanding, agreement, condition, warranty, indemnity or representation about its subject matter.
    - 20.5 A waiver of a provision of or right under a Contract must be in writing signed by the party giving the waiver and is effective only to the extent set out in the written waiver.
    - 20.6 The failure, delay, relaxation or indulgence by a party in exercising a power or right under a Contract is not a waiver of that power or right.
    - 20.7 An exercise of a power or right under a Contract does not preclude a further exercise of it or the exercise of another right or power.
    - 20.8 Each indemnity, obligation of confidence and other term capable of taking effect after the expiration or termination of a Contract, remains in force after the expiration or termination of the Contract.

21. **INTERPRETATION**
    - 21.1 Headings do not affect interpretation;
    - 21.2 Singular includes plural and plural includes singular;
    - 21.3 A reference to a party includes its executors, administrators, successors and permitted assigns;
    - 21.4 A reference to a person includes a partnership, corporation, association, government body and any other entity;
    - 21.5 An agreement, representation, warranty or indemnity by two or more parties (including where two or more persons are included in the same defined term) binds them jointly and severally;
    - 21.6 An agreement, representation, warranty or indemnity in favour of two or more parties (including where two or more persons are included in the same defined term) is for the benefit of them jointly and severally;
    - 21.7 A reference to legislation includes any amendment to it, any legislation substituted for it, and any subordinate legislation made under it;
    - 21.8 A provision is not construed against a party only because that party drafted it;
    - 21.9 An unenforceable provision or part of a provision may be severed, and the remainder of these Conditions continues in force, unless this would materially change the intended effect of these Conditions;
    - 21.10 The meaning of general words is not limited by specific examples introduced by 'including', 'for example' or similar expression.

PRIVACY NOTICE AND CONSENT

Acknowledgment of receipt of Privacy Statement

Each individual who is the Buyer, a partner in the Buyer, a director of the Buyer, or a Guarantor, and who has signed this Application for Credit Account, acknowledges that they have received a copy of the Company's Privacy Statement which contains important information about the Company's management of personal information. Obtaining reports from credit-reporting agencies The Company gives notice that it may give personal information about an individual who is the Buyer, a partner in the Buyer, a Director of the Buyer or a Guarantor to a credit-reporting agency for the following purposes:

- to obtain a consumer credit report about the individual, and/or
- to allow the credit reporting agency to create or maintain a credit information file containing information about the individual.

The information that may be given is limited to:

- identity particulars-name, sex, current address, previous two addresses, date of birth, name of employer, drivers licence number,
- the fact that the individual has applied for credit and the amount,
- the fact that the Company is a current credit provider to the individual,
- payments that are overdue for more than 60 days, and for which debt collection action has started,
- advice that payments are no longer overdue in respect of any default that has been listed,
- information that, in the opinion of the Company, the individual has committed a serious credit infringement (that is, acted fraudulently or shown an intention not to comply with the individual's credit obligations),
- cheques drawn by the Buyer for $100 or more which have been dishonoured more than once.

This information may be given before, during or after the provision of credit to the Buyer. Obtaining and exchanging information about individuals who are Buyers or partners in Buyers Each individual who is the Buyer, or a partner in the Buyer, agrees that:

- the Company may obtain information about the individual from a credit-reporting agency if the Company considers it relevant to the assessment of the Buyer's application for credit;
- the Company may obtain information about the individual from the individual's employer that may include the nature of the employment (full time, part time, contract or casual), the length of employment, the minimum hours, and the rates of pay);
- the Company may exchange information about the individual (which can include anything about the individual's credit worthiness, credit standing, credit history or credit capacity that credit providers are allowed to exchange under the Privacy Act) with those credit providers named in this Application or in a consumer credit report obtained by the Company for the following purposes:
    - to assess an application by the individual for credit,
    - to notify other credit providers of a default by the individual,
    - to exchange information with other credit providers as to the status of the Buyer's account where the individual is in default with other credit providers, and
    - to assess the individual's credit worthiness.

Obtaining information about individuals who are Directors of Buyers Each individual who is a Director of the Buyer, and who has signed this Application, agrees that the Company may obtain information about the individual from a credit- reporting agency if the Company considers it relevant to the assessment of the Buyer's application for credit. Obtaining information about individuals who are Guarantors. Each individual who is a Guarantor, and who has signed this Application, agrees that the Company may obtain information about the individual from a credit-reporting agency if the Company considers it relevant to the assessment of whether to accept the individual as a guarantor in respect of credit the Buyer has applied for or obtained.

Limits of Liability

This catalogue is intended as a product offering. It is not intended to be a user or technical manual. Information in this catalogue is subject to change without notice. All users and distributors of products sold through this catalogue should contact Dixon® with questions of use, compatibilities, coupling procedures and life of product. Our full-time engineering and test staff are always available to recommend uses and to assist distributors and users with any questions. All product images are representative.

Safety

Safety logos, which appear throughout our catalogue, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application and environment in which it will be used.

NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon® couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.

Trademarks

All other trademarks appearing in the Dixon® Illustrated Price List are the property of their respective owners.

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