SR1SN

Application: Medium pressure hydraulic application including mobile, machine tooling and agricultural application, using petroleum or water based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: one braid of high-tensile steel wire
Cover: Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: EN853 1SN, SAE J517 R1S, GB3683.1 1SN MT 98
Safe Factor: 4:1

Branding: Continental ContiTech | SR1SN-16 | SAE 100R1AT/1SN 1" (DN25) | 1280 PSI | 8.7 MPa 87 BAR | FLAME RESISTANT MSHA 2G-IC-14C:44

Product Number	Hose ID		W.D.				C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR1SN-04-06	6.3	1/4	6.2	7	10.6	11.6	14.1	22.5	3260	100	0.23
SR1SN-05-08	8	5/16	7.7	8.5	12.1	13.3	15.7	21.5	3120	115	0.27
SR1SN-06-10	10	3/8	9.8	10.3	14.5	15.7	18.1	18	2615	130	0.34
SR1SN-08-13	12.5	1/2	12.3	13.5	17.5	19.1	21.4	16	2320	180	0.43
SR1SN-10-16	16	5/8	15.5	16.7	20.6	22.2	24.5	13	1890	200	0.51
SR1SN-12-19	19	3/4	18.6	19.8	24.6	26.2	28.5	10.5	1530	240	0.66
SR1SN-16-25	25	1	25	26.4	32.5	34.1	36.6	8.7	1280	300	1.00
SR1SN-20-32	31.5	1 1/4	31.4	33	39.3	41.7	44.8	6.3	920	420	1.35
SR1SN-24-38	38	1 1/2	37.7	39.3	45.6	48	52.1	5	730	500	1.56
SR1SN-32-51	51	2	50.4	52	58.7	61.7	65.5	4	580	630	2.20
SR1SN-40-64	64	2 1/2	63.1	65.1	71.5	73.5	77.4	5	720	760	2.55

SR2SN

Application: High pressure hydraulic oil lines used in construction, machine tooling and agricultural application using petroleum or water-based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: Two braids of high-tensile steel wire
Cover: Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: EN853 2SN, GB3683.1 2SN, SAE J517 R2S, ISO 1436 2SN MT98
Safe Factor: 4:1

Branding: Continental ContiTech | SR2SN-16 | SAE 100R2AT/2SN 1" (DN25) | 2400 PSI | 16.5 MPa 165 BAR | FLAME RESISTANT MSHA 2G-IC-14C:44 | MA MEE110875

Product Number	Hose ID		W.D.				C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR2SN-04-06	6.3	1/4	6.2	7	12.1	13.3	15.7	40	5800	100	0.34
SR2SN-05-08	8	5/16	7.7	8.5	13.7	14.9	17.3	35	5075	115	0.39
SR2SN-06-10	10	3/8	9.8	10.3	16.1	17.3	19.7	33	4800	130	0.49
SR2SN-06-10	10	3/8	9.3	10.1	16.1	17.3	19.7	35	5075	130	0.52
SR2SN-08-13	12.5	1/2	12.3	13.5	19	20.6	23	27.5	4000	180	0.59
SR2SN-08-13	12.5	1/2	12.3	13.5	19	20.6	23	35	5075	180	0.62
SR2SN-10-16	16	5/8	15.5	16.7	22.2	23.8	26.2	25	3630	200	0.71
SR2SN-12-19	19	3/4	18.6	19.8	26.2	27.8	30.1	21.5	3120	240	0.89
SR2SN-12-19	19	3/4	18.6	19.8	26.2	27.8	30.1	25	3625	240	0.93
SR2SN-12-19	19	3/4	18.6	19.8	26.2	27.8	30.3	28	4060	240	1.02
SR2SN-16-25	25	1	25	26.4	34.1	35.7	38.9	16.5	2400	300	1.37
SR2SN-20-32	31.5	1 1/4	31.4	33	43.3	45.7	49.5	12.5	1820	420	2.27
SR2SN-24-38	38	1 1/2	37.7	39.3	49.6	52	55.9	9	1310	500	2.44
SR2SN-32-51	51	2	50.4	52	62.3	64.7	68.6	8	1160	630	3.00
SR2SN-40-63	63	2 1/2	63.1	65.1	74.6	77.8	81.8	7	1020	760	3.50

S4SH

Application: Very high pressure applications used for petroleum-based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire.
Cover: Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: GB/T 10544 4SH, EN 856 4SH, MT98 4SH
Safe Factor: 4:1

Branding: Continental ContiTech | S4SH-16 | EN 856 1" (DN25) | 5510 PSI | 38.0 MPa 380 BAR | FLAME RESISTANT MSHA 2G-IC-14C:44 | MA MEE110877

Product Number	Hose ID		W.D.				C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
S4SH-12-19	19	3/4	18.6	19.8	27.6	29.2	33	42.0	6090	280	1.62
S4SH-16-25	25	1	25	26.4	34.4	36	39.9	38.0	5510	340	2.12
S4SH-20-32	31.5	1 1/4	31.4	33	40.9	42.9	47.1	32.5	4714	460	2.55
S4SH-20-32	31.5	1 1/4	31.4	33	40.9	42.9	47.1	35.0	5080	460	2.65
S4SH-24-38	38	1 1/2	37.7	39.3	47.8	49.8	55.1	29.0	4205	560	3.26
S4SH-32-51	51	2	50.4	52	62.2	64.2	69.7	25.0	3650	700	4.92

S4SP

Application: Very high pressure applications used for petroleum-based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire.
Cover: Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: GB/T 10544 4SP, EN 856 4SP, GB/T 18947 Type 3, MT98 4SP, ISO 6805 Type 3 MT98
Safe Factor: 4:1
Branding: Continental ContiTech | S4SP-16 | EN 856 1" (DN25) | 4640 PSI | 32.0 MPa 320 BAR | FLAME RESISTANT MSHA 2G-IC-14C/44 | MA MEE110876

Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
S4SP-06-10	10	3/8	9.3	10.1	16.9	18.1	22.2	44.5	6455	180	0.71
S4SP-08-13	12.5	1/2	12.3	13.5	19.4	21.0	25.4	41.5	6020	230	0.865
S4SP-10-16	16	5/8	15.5	16.7	23.0	24.6	29	35.0	5075	250	1.086
S4SP-10-16	16	5/8	15.5	16.7	23.0	24.6	29	40.0	5800	250	1.18
S4SP-12-19	19	3/4	18.6	19.8	27.4	29.0	33	35.0	5075	300	1.464
S4SP-12-19	19	3/4	18.6	19.8	27.4	29.0	33	38.0	5510	300	1.464
S4SP-16-25	25	1	25.0	26.4	34.5	36.1	40.9	28.0	4061	340	1.942
S4SP-16-25	25	1	25.0	26.4	34.5	36.1	40.9	32.0	4640	340	1.942
S4SP-20-32	31.5	1 1/4	31.4	33	45.0	47.0	52.4	21.0	3045	460	2.962
S4SP-24-38	38	1 1/2	37.7	39.3	51.4	53.4	58.8	18.5	2683	560	3.45
S4SP-32-51	51	2	50.4	52	64.3	66.3	71.4	16.5	2393	660	4.637

SR12

Application: Very high pressure applications used for petroleum-based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire.
Cover: Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: GB/T 10544 R12, EN 856 R12, SAE J517 R12 MT 98
Safe Factor: 4:1
Branding: Continental ContiTech | SR12-16 | SAE 100R12/EN 856 1" (DN25) | 4100 PSI | 28.0 MPa 280 BAR | FLAME RESISTANT MSHA 2G-IC-14C/44

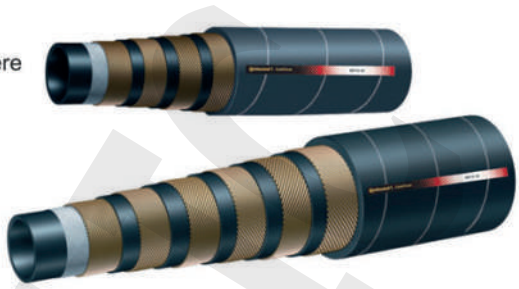
Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR12-06-10	10	3/8	9.3	10.1	16.6	17.8	21.0	28	4100	65	0.59
SR12-08-13	12.5	1/2	12.3	13.5	19.9	21.5	24.6	28	4100	90	0.77
SR12-10-16	16	5/8	15.5	16.7	23.8	25.4	28.2	28	4100	100	1.04
SR12-12-19	19	3/4	18.6	19.8	26.9	28.4	31.5	28	4100	120	1.21
SR12-16-25	25	1	25	26.4	34.1	35.7	39.2	28	4100	150	1.83
SR12-20-32	31.5	1 1/4	31.4	33	42.7	45.1	48.6	21	3050	420	2.53
SR12-24-38	38	1 1/2	37.7	39.3	49.2	51.6	55.0	17.5	2550	500	3.05
SR12-32-51	51	2	50.8	52	62.5	64.8	68.3	17.5	2550	630	4.19

SR13

Application: Very high pressure applications subject to surge or flexing such as construction equipment, mining and the high performance industrial market.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire (sizes 3/4" and 1") and six alternating layers of spiralled high-tensile steel wire (sizes 1 1/4",1 1/2" and 2")
Cover: Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: GB/T 10544 R13, EN 856 R13, SAE J517 R13 MT98
Safe Factor: 4:1
Branding: Continental ContiTech | SR13-16 | SAE 100R13/EN 856 1" (DN25) | 5100 PSI | 35.0 MPa 350 BAR | FLAME RESISTANT MSHA 2G-IC-14C/44

Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR13-12-19	19	3/4	18.6	19.8	28.2	29.8	33.2	35.0	5100	240	1.62
SR13-16-25	25	1	25.0	26.4	34.9	36.4	39.8	35.0	5100	300	2.12
SR13-20-32	31.5	1 1/4	31.4	33.0	45.6	48.0	51.3	35.0	5100	420	4.01
SR13-24-38	38	1 1/2	37.7	39.3	53.1	55.5	58.8	35.0	5100	500	5.05
SR13-32-51	51	2	50.4	52.0	66.9	69.3	72.7	35.0	5100	630	7.33

SR15



Application: Designed specifically to handle severe high pressure applications where pressure or constant hydrostatic loads are present.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiral high-tensile steel wire (size 3/8", 1/2", 5/8", 3/4" and 1") and six alternating layers of spiralled high-tensile steel wire(size 1 1/4",1 1/2" and 2")
Cover: Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: GB/T 10544 R15, SAE J517 R15, EN 856 R15 MT98
Safe Factor: 4:1
Branding: Continental ContiTech SR15-16 SAE 100R15/EN 856 1" (DN25) 6100 PSI 42.0 MPa 420 BAR FLAME RESISTANT MSHA 2G-IC-14C/44

Product Number	Hose ID				W.D.	C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR15-06-10	10	3/8	9.3	10.1	20.3	23.3	42	6100	150	0.76
SR15-08-13	12.5	1/2	12.3	13.5	24	26.8	42	6100	200	0.88
SR15-10-16	16	5/8	15.5	16.7	26.6	29.4	42	6100	250	1.18
SR15-12-19	19	3/4	18.6	19.8	32.9	36.1	42	6100	265	1.62
SR15-16-25	25	1	25	26.4	38.9	42.9	42	6100	330	2.18
SR15-20-32	31.5	1 1/4	31.4	33	48.4	51.5	42	6100	445	3.58
SR15-24-38	38	1 1/2	37.7	39.3	56.3	59.6	42	6100	530	5.05

SR16SC

Application: Hose has compact dimensions and tighter bend radius than 2SN for ease of assembly routing in machinery applications
Inner Tube: Synthetic Rubber
Reinforcement: Two braids of high-tensile wire
Cover: Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: SAE J517 R16S EN857 2SC
Safe Factor: 4:1
Branding: Continental ContiTech SR16SC-16 SAE 100R16/EN 857 2SC 1" (DN25) W.P. 2400PSI 16.5 MPa 165 BAR FLAME RESISTANT MSHA 2G-IC-14C/44

Product Number	Hose ID				W.D.	C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Max mm	Max mm	Mpa	psi	mm	kg/m
SR16SC-04-06	6.3	1/4	6.2	7	11.7	14.2	40	5800	50	0.29
SR16SC-05-08	8	5/16	7.7	8.5	13.3	16	35	5075	55	0.36
SR16SC-06-10	10	3/8	9.8	10.3	15.6	18.3	34.5	5000	65	0.44
SR16SC-08-13	12.5	1/2	12.3	13.5	19.1	21.5	27.5	3990	90	0.54
SR16SC-08-13	12.5	1/2	12.3	13.5	19.1	21.5	34.5	5000	90	0.54
SR16SC-10-16	16	5/8	15.5	16.7	22.3	24.7	27.5	4000	100	0.64
SR16SC-12-19	19	3/4	18.6	19.8	26.4	28.6	24.1	3500	120	0.87
SR16SC-16-25	25	1	25	26.4	34.3	36.6	16.5	2400	150	1.25
SR16SC-16-25	25	1	25	26.4	34.3	36.6	21	3000	150	1.25
SR16SC-20-32	31.5	1 1/4	31.4	33	41.7	44.3	12.5	1820	210	1.66
SR16SC-20-32	31.5	1 1/4	31.4	33	41.7	44.3	15.5	2250	210	1.66
SR16SC-24-38	38	1 1/2	37.7	39.3	49	53	13.8	2000	250	2.01
SR16SC-32-51	51	2	50.4	52	63	67	11	1600	317.5	2.81

XCP3S

Application: Very high pressure applications used for petroleum-based hydraulic fluids
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire.
Cover: High Abrasion Resistance Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: EN 856 R12, SAE J517 R12
Safe Factor: 4:1
Branding: Continental ContiTech EXTENDED LIFE™ XCP3S-20 SAE100R12 1-1/4" (DN32) 3100 PSI 21.0MPa 210BAR MSHA 2G-IC-14C/45

Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
XCP3S-20-32	31.5	1 1/4	31.4	33	42.7	45.1	48.6	21	3050	420	2.53
XCP3S-24-38	38	1 1/2	37.7	39.3	49.2	51.6	55.0	21	3050	500	3.05
XCP3S-32-51	51	2	50.8	52	62.2	64.2	69.7	21	3050	630	4.50

XCP4S

Application: Very high pressure applications used for petroleum-based hydraulic fluids.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire (sizes 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2") and six alternating layers of spiralled high-tensile steel wire (size 2")
Cover: High Abrasion Resistance Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: EN 856 R12, SAE J517 R12
Safe Factor: 4:1
Branding: Continental ContiTech EXTENDED LIFE™ XCP4S-10 4100 PSI 28.0MPa 2900AR Flame Resistant MSHA 20-IC-14C/45 Meets or Exceeds SAE 100R12, EN856 5/8" (16mm) +

Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
XCP4S-06-10	10	3/8	9.6	10.1	16.6	17.6	20.9	28	4100	65	0.59
XCP4S-08-13	12.5	1/2	12.9	13.4	19.5	21.5	24.2	28	4100	90	0.72
XCP4S-10-16	16	5/8	16	16.5	24.1	25.1	28.1	28	4100	100	0.96
XCP4S-12-19	19	3/4	19.2	19.7	27.5	28.5	31.1	28	4100	120	1.16
XCP4S-16-25	25	1	25.5	26.3	34.4	35.4	39	28	4100	150	1.74
XCP4S-20-32	31.5	1 1/4	32	33	41.8	42.8	46.8	28	4100	270	2.52
XCP4S-24-38	38	1 1/2	38.2	39.2	48.5	49.7	54.2	28	4100	330	3.12
XCP4S-32-51	51	2	50.9	51.9	62.5	64.8	67.6	28	4100	630	4.19

XCP5S

Application: Very high pressure applications subject to surge or flexing such as construction equipment, mining and the high performance industrial market.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire (sizes 3/8", 1/2", 5/8", 3/4", 1", 1 1/4") and six alternating layers of spiralled high-tensile steel wire(size 1 1/2", 2")
Cover: High Abrasion Resistance Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: EN 856 R13, SAE J517 R13
Safe Factor: 4:1
Branding: Continental ContiTech EXTENDED LIFE™ XCP5S-10 5100 PSI 35.0MPa 2500AR Flame Resistant MSHA 20-IC-14C/45 Meets or Exceeds SAE 100R12, EN856 5/8" (16mm) +

Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
XCP5S-06-10	10	3/8	9.6	10.1	16.9	17.7	21.8	35	5100	90	0.69
XCP5S-08-13	12.5	1/2	12.9	13.4	19.6	20.6	25.1	35	5100	90	0.79
XCP5S-10-16	16	5/8	16	16.5	23.3	24.2	28.6	35	5100	120	1.02
XCP5S-12-19	19	3/4	19.2	19.7	27.9	28.9	32.5	35	5100	120	1.36
XCP5S-16-25	25	1	25.5	26.3	35.1	36.1	38.9	35	5100	150	1.99
XCP5S-20-32	31.5	1 1/4	32	33	41.8	42.8	46.8	35	5100	270	2.52
XCP5S-24-38	38	1 1/2	38.2	39.2	53.8	55	57.6	35	5100	500	5.01
XCP5S-32-51	51	2	50.9	51.9	67.9	69.1	71.7	35	5100	630	6.96

XCP6S

Application: Designed specifically to handle severe high pressure applications where pressure or constant hydrostatic loads are present.
Inner Tube: Synthetic Rubber
Reinforcement: Four alternating layers of spiralled high-tensile steel wire (sizes 3/8", 1/2", 5/8", 3/4", 1") and six alternating layers of spiralled high-tensile steel wire(size 1 1/4", 1 1/2")
Cover: High Abrasion Resistance Synthetic Rubber
Temperature Range: -40ºF to 250ºF (-40ºC to 121ºC)
Applicable Standards: SAE J517 R15
Safe Factor: 4:1
Branding: Continental ContiTech EXTENDED LIFE™ XCP6S-10 6100 PSI 42.0MPa 4200AR Flame Resistant MSHA 20-IC-14C/45 Meets or Exceeds SAE 100R12, EN856 4SP 5/8" (16mm) +

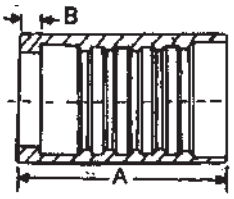
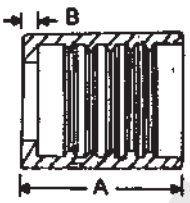
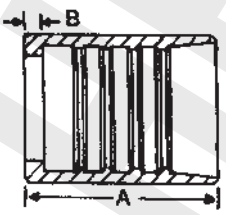
Product Number	Hose ID				W.D.		C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Min mm	Max mm	Max mm	Mpa	psi	mm	kg/m
XCP6S-06-10	10	3/8	9.6	10.1	16.9	17.7	21.8	42	6100	90	0.69
XCP6S-08-13	12.5	1/2	12.9	13.4	19.6	20.6	25.1	42	6100	90	0.79
XCP6S-10-16	16	5/8	16	16.5	23.2	24.2	27.2	42	6100	120	1.13
XCP6S-12-19	19	3/4	19.2	19.7	27.9	28.9	32.7	42	6100	120	1.53
XCP6S-16-25	25	1	25.5	26.3	34.9	35.9	39.8	42	6100	150	2.01
XCP6S-20-32	31.5	1 1/4	32	33	44.7	45.9	49.2	42	6100	445	3.41
XCP6S-24-38	38	1 1/2	38.2	39.2	53.8	55	57.6	42	6100	530	4.95

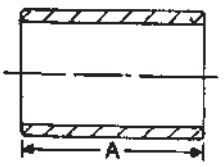
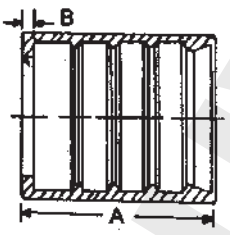
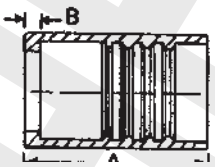
XCP3

Application: High pressure hydraulic applications design to replace 100R1 where higher pressures and a more flexible hose is required.
Inner Tube: Synthetic Rubber
Reinforcement: One braid of high-tensile steel wire (size 1/4", 5/16", 3/8" and 1/2") and two braids of high-tensile steel wire (sizes 5/8", 3/4" and 1").
Cover: High Abrasion Resistance Synthetic Rubber
Temperature Range: -40ºF to 212ºF (-40ºC to 100ºC)
Applicable Standards: SAE J517 R17 ISO11237 R17
Safe Factor: 4:1
Branding: Continental ContiTech EXTENDED LIFE™ XCP3-16 SAE100R17 1" (DN25) 3250 PSI 22.4 MPa 224 BAR MSHA 2G-IC-14C/45

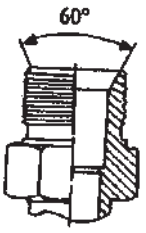
Product Number	Hose ID				W.D.	C.O.D	Max W.P.		Min B.R.	Weight
	mm	in	Min mm	Max mm	Max mm	Max mm	Mpa	psi	mm	kg/m
XCP3-04-06	6.3	1/4	6.2	7	11	13.2	22.4	3250	50	0.20
XCP3-05-08	8	5/16	7.7	8.5	13	15	22.4	3250	55	0.23
XCP3-06-10	10	3/8	9.8	10.3	15	17	22.4	3250	65	0.29
XCP3-08-13	12.5	1/2	12.3	13.5	18.8	21.1	22.4	3250	90	0.38
XCP3-10-16	16	5/8	15.5	16.7	23.6	25.9	22.4	3250	100	0.64
XCP3-12-19	19	3/4	18.6	19.8	27.7	30.3	22.4	3250	120	0.80
XCP3-16-25	25	1	25	26.4	35.6	38.6	22.4	3250	150	1.28

Continental
WORLDWIDE. WORLD-CLASS. WORLD-CHANGING.

FERRULE SERIES	PRODUCT CODE	O.D. (MM.)	I.D. (MM.)	"A" (MM.)	"B" (MM.)	PRICE /PC.
E2A 	E2A-04	21.30	16.20	35.00	3.70	
	E2A-06	23.40	17.80	38.00	3.70	
	E2A-08	28.60	21.80	42.00	3.70	
	E2A-10	31.20	24.40	47.50	4.70	
	E2A-12	35.00	28.40	50.00	4.70	
	E2A-16	44.50	37.00	55.00	4.70	
	E2A-20	55.50	46.40	72.00	5.50	
BR 	BR-04	21.30	16.20	25.40	2.00	
	BR-06	23.40	17.80	25.40	2.00	
	BR-08	28.60	21.80	31.60	2.20	
	BR-10	31.20	24.40	31.60	2.20	
	BR-12	35.00	28.40	37.40	2.40	
	BR-16	44.50	37.00	50.00	4.00	
	BR-20	55.50	46.40	70.00	5.00	
MS 	MS-04	22.60	16.00	35.00	3.70	
	MS-06	26.90	20.00	38.00	3.70	
	MS-08	32.50	25.00	42.00	3.70	
	MS-10	34.50	26.90	47.50	4.70	
	MS-12	38.00	30.50	50.00	4.70	
	MS-16	47.50	39.40	55.00	4.70	
	MS-20	57.00	48.30	72.00	5.50	
	MS-24	65.00	55.40	74.50	6.40	
	MS-32	80.10	68.40	89.00	6.40	

FERRULE SERIES	PRODUCT CODE	O.D. (MM.)	I.D. (MM.)	"A" (MM.)	"B" (MM.)	PRICE /PC.
UK 	UK-04	19.00	16.00	42.00		
	UK-06	24.00	20.00	44.00		
	UK-08	27.00	23.00	47.00		
	UK-10	32.00	28.00	53.00		
	UK-12	37.00	33.00	57.00		
	UK-16	43.00	39.00	64.00		
	UK-20	57.00	51.00	80.00		
SS 	SS-12	38.00	31.00	53.00	4.30	
	SS-16	48.00	39.10	58.00	4.50	
	SS-20	61.00	49.80	72.00	4.80	
	SS-24	69.80	58.30	89.00	6.20	
	SS-32	87.00	72.60	93.50	6.20	
ISR 	ISR-04	21.70	16.00	40.00	3.50	
	ISR-06	25.40	20.00	42.00	3.50	
	ISR-08	28.60	23.00	45.00	3.50	
	ISR-10	34.00	27.90	52.50	4.70	
	ISR-12	38.00	32.00	56.00	4.70	
	ISR-16	44.50	37.50	63.00	4.70	
	ISR-20	55.50	46.00	80.00	5.00	

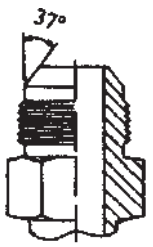
GBM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSPP MALE NO SEAL PARALLEL 60°	GBM-0404	1/4	G1/4B-19TPI-55°		
	GBM-0406	1/4	G3/8B-19TPI-55°		
	GBM-0606	3/8	G3/8B-19TPI-55°		
	GBM-0608	3/8	G1/2B-14TPI-55°		
	GBM-0808	1/2	G1/2B-14TPI-55°		
	GBM-0810	1/2	G5/8B-14TPI-55°		
	GBM-1010	5/8	G5/8B-14TPI-55°		
	GBM-1012	5/8	G3/4B-14TPI-55°		
	GBM-1212	3/4	G3/4B-14TPI-55°		
	GBM-1216	3/4	G1B-11TPI-55°		
	GBM-1616	1	G1B-11TPI-55°		
	GBM-1620	1	G1.1/4B-11TPI-55°		
	GBM-2020	1.1/4	G1.1/4B-11TPI-55°		
	GBM-2024	1.1/4	G1.1/2B-11TPI-55°		
	GBM-2424	1.1/2	G1.1/2B-11TPI-55°		
	GBM-2432	1.1/2	G2B-11TPI-55°		
	GBM-3232	2	G2B-11TPI-55°		



GBMO	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSPP MALE O'RING SEAL	GBMO-0404	1/4	G1/4B-19TPI-55°		
	GBMO-0606	3/8	G3/8B-19TPI-55°		
	GBMO-0808	1/2	G1/2B-14TPI-55°		
	GBMO-1212	3/4	G3/4B-14TPI-55°		
	GBMO-1616	1	G1B-11TPI-55°		
	GBMO-2020	1.1/4	G1.1/4B-11TPI-55°		

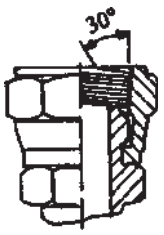
GBMT	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSPT MALE PARALLEL 60° 	GBMT-0402	1/4	1/8-28BSPT		
	GBMT-0404	1/4	1/4-19BSPT		
	GBMT-0406	1/4	3/8-19BSPT		
	GBMT-0606	3/8	3/8-19BSPT		
	GBMT-0608	3/8	1/2-14BSPT		
	GBMT-0808	1/2	1/2-14BSPT		
	GBMT-1010	5/8	5/8-14BSPT		
	GBMT-1012	5/8	3/4-14BSPT		
	GBMT-1212	3/4	3/4-14BSPT		
	GBMT-1216	3/4	1-11BSPT		
	GBMT-1616	1	1-11BSPT		
	GBMT-1620	1	1.1/4-11BSPT		
	GBMT-2020	1.1/4	1.1/4-11BSPT		
	GBMT-2024	1.1/4	1.1/2-11BSPT		
	GBMT-2424	1.1/2	1.1/2-11BSPT		
	GBMT-2432	1.1/2	2-11BSPT		
	GBMT-3232	2	2-11BSPT		

GPMT	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
NPT MALE 	GPMT-0402	1/4	1/8-27NPTF		
	GPMT-0404	1/4	1/4-18NPTF		
	GPMT-0406	1/4	3/8-18NPTF		
	GPMT-0606	3/8	3/8-18NPTF		
	GPMT-0608	3/8	1/2-14NPTF		
	GPMT-0808	1/2	1/2-14NPTF		
	GPMT-0810	1/2	5/8-14NPTF		
	GPMT-1012	5/8	3/4-14NPTF		
	GPMT-1212	3/4	3/4-14NPTF		
	GPMT-1216	3/4	1-11.1/2NPTF		
	GPMT-1616	1	1-11.1/2NPTF		
	GPMT-1620	1	1.1/4-11.1/2NPTF		
	GPMT-2020	1.1/4	1.1/4-11.1/2NPTF		
	GPMT-2024	1.1/4	1.1/2-11.1/2NPTF		
	GPMT-2424	1.1/2	1.1/2-11.1/2NPTF		
	GPMT-2432	1.1/2	2-11.1/2NPTF		
	GPMT-3232	2	2-11.1/2NPTF		

GJM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
JIC MALE 37° 	GJM-0404	1/4	7/16-20UNF		
	GJM-0406	1/4	9/16-18UNF		
	GJM-0606	3/8	9/16-18UNF		
	GJM-0608	3/8	3/4-16UNF		
	GJM-0808	1/2	3/4-16UNF		
	GJM-0810	1/2	7/8-14UNF		
	GJM-1010	5/8	7/8-14UNF		
	GJM-1012	5/8	1.1/16-12UN		
	GJM-1212	3/4	1.1/16-12UN		
	GJM-1216	3/4	1.5/16-12UN		
	GJM-1616	1	1.5/16-12UN		
	GJM-1620	1	1.5/8-12UN		
	GJM-2020	1.1/4	1.5/8-12UN		
	GJM-2024	1.1/4	1.7/8-12UN		
	GJM-2424	1.1/2	1.7/8-12UN		
	GJM-2432	1.1/2	2.1/2-12UN		
	GJM-3232	2	2.1/2-12UN		

GJS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
JIC FEMALE SWIVEL NUT 37° 	GJS-0404	1/4	7/16-20UNF		
	GJS-0406	1/4	9/16-18UNF		
	GJS-0606	3/8	9/16-18UNF		
	GJS-0608	3/8	3/4-16UNF		
	GJS-0808	1/2	3/4-16UNF		
	GJS-0810	1/2	7/8-14UNF		
	GJS-1010	5/8	7/8-14UNF		
	GJS-1012	5/8	1.1/16-12UN		
	GJS-1212	3/4	1.1/16-12UN		
	GJS-1216	3/4	1.5/16-12UN		
	GJS-1616	1	1.5/16-12UN		
	GJS-1620	1	1.5/8-12UN		
	GJS-2020	1.1/4	1.5/8-12UN		
	GJS-2024	1.1/4	1.7/8-12UN		
	GJS-2424	1.1/2	1.7/8-12UN		
	GJS-2432	1.1/2	2.1/2-12UN		
	GJS-3232	2	2.1/2-12UN		

GBS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSPP FEMALE SWIVEL NUT 30°	GBS-0404	1/4	P.F. 1/4-19		
	GBS-0406	1/4	P.F. 3/8-19		
	GBS-0606	3/8	P.F. 3/8-19		
	GBS-0608	3/8	P.F. 1/2-14		
	GBS-0808	1/2	P.F. 1/2-14		
	GBS-0810	1/2	P.F. 5/8-14		
	GBS-1010	5/8	P.F. 5/8-14		
	GBS-1012	5/8	P.F. 3/4-14		
	GBS-1212	3/4	P.F. 3/4-14		
	GBS-1216	3/4	P.F. 1-11		
	GBS-1616	1	P.F. 1-11		
	GBS-1620	1	P.F. 1.1/4-11		
	GBS-2020	1.1/4	P.F. 1.1/4-11		
	GBS-2024	1.1/4	P.F. 1.1/2-11		
	GBS-2424	1.1/2	P.F. 1.1/2-11		
	GBS-2432	1.1/2	P.F. 2-11		
	GBS-3232	2	P.F. 2-11		



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GBFS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSPP FEMALE INVERTED CONE SWIVEL NUT	GBFS-0402	1/4	P.F. 1/8-28		
	GBFS-0404	1/4	P.F. 1/4-19		
	GBFS-0406	1/4	P.F. 3/8-19		
	GBFS-0606	3/8	P.F. 3/8-19		
	GBFS-0608	3/8	P.F. 1/2-14		
	GBFS-0808	1/2	P.F. 1/2-14		
	GBFS-0810	1/2	P.F. 5/8-14		
	GBFS-1010	5/8	P.F. 5/8-14		
	GBFS-1012	5/8	P.F. 3/4-14		
	GBFS-1212	3/4	P.F. 3/4-14		
	GBFS-1216	3/4	P.F. 1-11		
	GBFS-1616	1	P.F. 1-11		
	GBFS-1620	1	P.F. 1.1/4-11		
	GBFS-2020	1.1/4	P.F. 1.1/4-11		
	GBFS-2024	1.1/4	P.F. 1.1/2-11		
	GBFS-2424	1.1/2	P.F. 1.1/2-11		
	GBFS-3232	2	P.F. 2-11		

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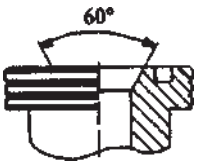
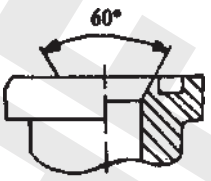
GPNT	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
NPT FEMALE TAPPED HOLE	GPNT-0402	1/4	1/8-27NPTF		
	GPNT-0404	1/4	1/4-18NPTF		
	GPNT-0406	1/4	3/8-18NPTF		
	GPNT-0606	3/8	3/8-18NPTF		
	GPNT-0608	3/8	1/2-14NPTF		
	GPNT-0808	1/2	1/2-14NPTF		
	GPNT-1012	5/8	3/4-14NPTF		
	GPNT-1212	3/4	3/4-14NPTF		

GSA	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
SAE O'RING FLANGE CODE 61	GSA-0606	3/8	R 3/4		
	GSA-0608	3/8	R 1.3/16		
	GSA-0808	1/2	R 1.3/16		
	GSA-0810	1/2	R 1.11/32		
	GSA-1010	5/8	R 1.11/32		
	GSA-1012	5/8	R 1.1/2		
	GSA-1212	3/4	R 1.1/2		
	GSA-1216	3/4	R 1.3/4		
	GSA-1616	1	R 1.3/4		
	GSA-1620	1	R 2		
	GSA-2020	1.1/4	R 2		
	GSA-2024	1.1/4	R 2.3/8		
	GSA-2424	1.1/2	R 2.3/8		
	GSA-2432	1.1/2	R 2.13/16		
	GSA-3232	2	R 2.13/16		

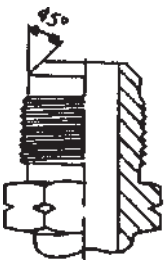
GSAH	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
SAE O'RING FLANGE CODE 62	GSAH-0608	3/8	R 1.1/4		
	GSAH-0808	1/2	R 1.1/4		
	GSAH-1012	5/8	R 1.5/8		
	GSAH-1212	3/4	R 1.5/8		
	GSAH-1216	3/4	R 1.7/8		
	GSAH-1616	1	R 1.7/8		
	GSAH-1620	1	R 2.1/8		
	GSAH-2020	1.1/4	R 2.1/8		
	GSAH-2024	1.1/4	R 2.1/2		
	GSAH-2424	1.1/2	R 2.1/2		
	GSAH-2432	1.1/2	R 3.1/8		
	GSAH-3232	2	R 3.1/8		



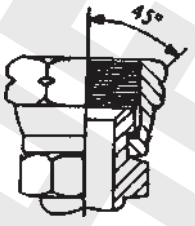
GSAC	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
EHP O'RING FLANGE "CAT" STYLE	GSAC-1212	3/4	R 1.5/8-1/2		
	GSAC-1216	3/4	R 1.7/8-1/2		
	GSAC-1616	1	R 1.7/8-1/2		
	GSAC-1620	1	R 2.1.8/1/2		
	GSAC-2020	1.1/4	R 2.1/8-1/2		
	GSAC-2024	1.1/4	R 2.1/2-1/2		
	GSAC-2424	1.1/2	R 2.1/2-1/2		
	GSAC-2432	1.1/2	R 3.1/8-1/2		
	GSAC-3232	2	R 3.1/8-1/2		



GAM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
SAE MALE	GAM-0404	1/4	7/16-20UNF		
	GAM-0405	1/4	1/2-20UNF		
	GAM-0406	1/4	5/8-18UNF		
	GAM-0606	3/8	5/8-18UNF		
	GAM-0608	3/8	3/4-16UNF		
	GAM-0808	1/2	3/4-16UNF		
	GAM-0810	1/2	7/8-14UNF		
	GAM-1010	5/8	7/8-14UNF		
	GAM-1012	5/8	1.1/16-14UNS		
	GAM-1212	3/4	1.1/16-14UNS		



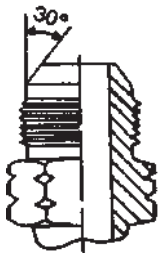
GAS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
SAE FEMALE SWIVEL NUT	GAS-0404	1/4	7/16-20UNF		
	GAS-0405	1/4	1/2-20UNF		
	GAS-0406	1/4	5/8-18UNF		
	GAS-0606	3/8	5/8-18UNF		
	GAS-0608	3/8	3/4-16UNF		
	GAS-0808	1/2	3/4-16UNF		
	GAS-0810	1/2	7/8-14UNF		
	GAS-1010	5/8	7/8-14UNF		
	GAS-1012	5/8	1.1/16-14UNS		
	GAS-1212	3/4	1.1/16-14UNS		



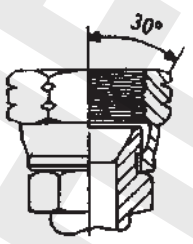
GORM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
O'RING FLAT-FACE MALE	GORM-0404	1/4	9/16-18UNF		
	GORM-0606	3/8	11/16-16UNF		
	GORM-0808	1/2	13/16-16UNF		
	GORM-1010	5/8	1-14UNS		
	GORM-1212	3/4	1.3/16-12UN		
	GORM-1616	1	1.7/16-12UN		
	GORM-2020	1.1/4	1.11/16-12UN		
	GORM-2424	1.1/2	2-12UN		

GORS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
FEMALE FLAT-FACE O'RING SWIVEL NUT	GORS-0404	1/4	9/16-18UNF		
	GORS-0606	3/8	11/16-16UNF		
	GORS-0808	1/2	13/16-16UNF		
	GORS-1010	5/8	1-14UNS		
	GORS-1212	3/4	1.3/16-12UN		
	GORS-1616	1	1.7/16-12UN		
	GORS-2020	1.1/4	1.11/16-12UN		
	GORS-2424	1.1/2	2-12UN		

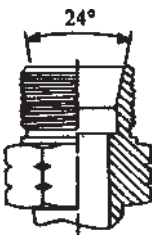
GKM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC MALE KOMATSU	GKM-0414	1/4	M 14x1.5		
	GKM-0618	3/8	M 18x1.5		
	GKM-0822	1/2	M 22x1.5		
	GKM-1024	5/8	M 24x1.5		
	GKM-1230	3/4	M 30x1.5		
	GKM-1633	1	M 33x1.5		
	GKM-2036	1.1/4	M 36x1.5		
	GKM-2442	1.1/2	M 42x1.5		



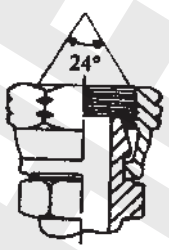
GKS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC FEMALE KOMATSU SWIVEL NUT 30° FLARE	GKS-0414	1/4	M 14x1.5		
	GKS-0418	1/4	M 18x1.5		
	GKS-0618	3/8	M 18x1.5		
	GKS-0622	3/8	M 22x1.5		
	GKS-0822	1/2	M 22x1.5		
	GKS-0824	1/2	M 24x1.5		
	GKS-1024	5/8	M 24x1.5		
	GKS-1030	5/8	M 30x1.5		
	GKS-1230	3/4	M 30x1.5		
	GKS-1233	3/4	M 33x1.5		
	GKS-1633	1	M 33x1.5		
	GKS-1636	1	M 36x1.5		
	GKS-2036	1.1/4	M 36x1.5		
	GKS-2042	1.1/4	M 42x1.5		
	GKS-2442	1.1/2	M 42x1.5		



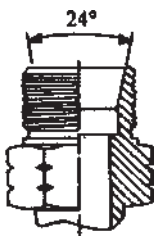
GULM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC MALE LIGHT DIN 3902	GULM-0414	1/4	M 14x1.5 P8		
	GULM-0416	1/4	M 16x1.5 P10		
	GULM-0616	3/8	M 16x1.5 P10		
	GULM-0618	3/8	M 18x1.5 P12		
	GULM-0822	1/2	M 22x1.5 P15		
	GULM-1026	5/8	M 26x1.5 P18		
	GULM-1230	3/4	M 30x2.0 P22		
	GULM-1636	1	M 36x2.0 P28		
	GULM-2045	1.1/4	M 45x2.0 P35		
	GULM-2452	1.1/2	M 52x2.0 P42		



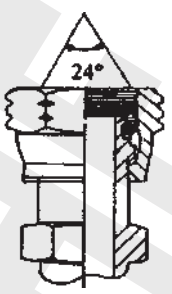
GULOS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC FEMALE DIN LIGHT O'RING	GULOS-0412	1/4	M 12x1.5 P6		
	GULOS-0414	1/4	M 14x1.5 P8		
	GULOS-0416	1/4	M 16x1.5 P10		
	GULOS-0616	3/8	M 16x1.5 P10		
	GULOS-0618	3/8	M 18x1.5 P12		
	GULOS-0822	1/2	M 22x1.5 P15		
	GULOS-1026	5/8	M 26x1.5 P18		
	GULOS-1230	3/4	M 30x1.5 P22		
	GULOS-1230	3/4	M 30x2.0 P22		
	GULOS-1636	1	M 36x2.0 P28		
	GULOS-2045	1.1/4	M 45x2.0 P35		
	GULOS-2452	1.1/2	M 52x2.0 P42		



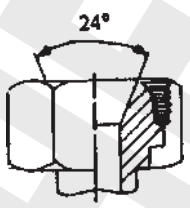
GVHM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC MALE HEAVY DIN 3902	GVHM-0414	1/4	M 14x1.5 P6		
	GVHM-0416	1/4	M 16x1.5 P8		
	GVHM-0418	1/4	M 18x1.5 P10		
	GVHM-0616	3/8	M 16x1.5 P8		
	GVHM-0620	3/8	M 20x1.5 P12		
	GVHM-0622	3/8	M 22x1.5 P15		
	GVHM-0822	1/2	M 22x1.5 P15		
	GVHM-0824	1/2	M 24x1.5 P16		
	GVHM-1024	5/8	M 24x1.5 P16		
	GVHM-1030	5/8	M 30x2.0 P20		
	GVHM-1230	3/4	M 30x2.0 P20		
	GVHM-1236	3/4	M 36x2.0 P25		
	GVHM-1642	1	M 42x2.0 P30		
	GVHM-2052	1.1/4	M 52x2.0 P38		



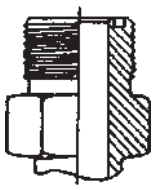
GVHOS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC FEMALE DIN HEAVY O'RING	GVHOS-0414	1/4	M 14x1.5 P6		
	GVHOS-0416	1/4	M 16x1.5 P8		
	GVHOS-0418	1/4	M 18x1.5 P10		
	GVHOS-0616	3/8	M 16x1.5 P8		
	GVHOS-0620	3/8	M 20x1.5 P12		
	GVHOS-0622	3/8	M 22x1.5 P15		
	GVHOS-0822	1/2	M 22x1.5 P15		
	GVHOS-0824	1/2	M 24x1.5 P16		
	GVHOS-1024	5/8	M 24x1.5 P16		
	GVHOS-1030	5/8	M 30x2.0 P20		
	GVHOS-1230	3/4	M 30x2.0 P20		
	GVHOS-1236	3/4	M 36x2.0 P25		
	GVHOS-1642	1	M 42x2.0 P30		
	GVHOS-2052	1.1/4	M 52x2.0 P38		



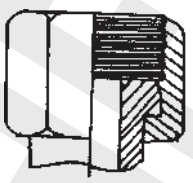
GKC	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
KOBELCO MALE	GKC-0824	1/2	M 24x1.5		
	GKC-1030	5/8	M 30x1.5		
	GKC-1230	3/4	M 30x1.5		
	GKC-1236	3/4	M 36x1.5		
	GKC-1636	1	M 36x1.5		
	GKC-1640	1	M 40x1.5		
	GKC-1645	1	M 45x1.5		

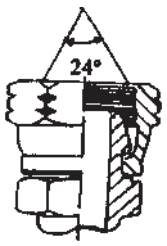
GSC	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
KOBELCO FEMALE SWIVEL	GSC-0620	3/8	M 20x1.5		
	GSC-0824	1/2	M 24x1.5		
	GSC-1030	5/8	M 30x1.5		
	GSC-1236	3/4	M 36x1.5		
	GSC-1645	1	M 45x1.5		
					

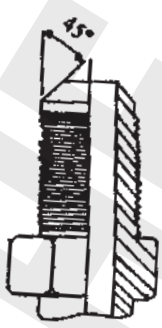
GSMA	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
DUMP TRUCK METRIC MALE	GSMA-1232	3/4	M 32x1.5		
	GSMA-1640	1	M 40x1.5		
	GSMA-2045	1.1/4	M 45x1.5		
	GSMA-2455	1.1/2	M 55x1.5		
	GSMA-3255	2	M 55x2.0		



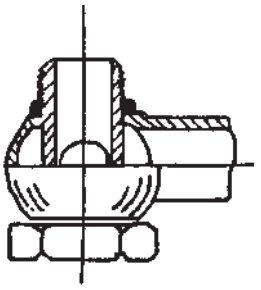
DWMS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
DUMP TRUCK WELDING METRIC FEMALE SWIVEL	DWMS-1232	3/4	M 32x1.5		
	DWMS-1640	1	M 40x1.5		
	DWMS-2045	1.1/4	M 45x1.5		
	DWMS-3255	2	M 55x2.0		



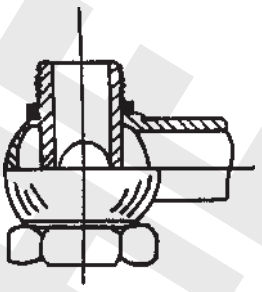
GZIS	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC FEMALE ISO SWIVEL NUT 	GZIS-0414	1/4	M 14x1.5		
	GZIS-0416	1/4	M 16x1.5		
	GZIS-0616	3/8	M 16x1.5		
	GZIS-0618	3/8	M 18x1.5		
	GZIS-0620	3/8	M 20x1.5		
	GZIS-0622	3/8	M 22x1.5		
	GZIS-0820	1/2	M 20x1.5		
	GZIS-0822	1/2	M 22x1.5		
	GZIS-0824	1/2	M 24x1.5		
	GZIS-1024	5/8	M 24x1.5		
	GZIS-1027	5/8	M 27x1.5		
	GZIS-1230	3/4	M 30x1.5		
	GZIS-1233	3/4	M 33x1.5		
	GZIS-1633	1	M 33x1.5		
	GZIS-1636	1	M 36x1.5		
	GZIS-1639	1	M 39x1.5		

GAMME	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
METRIC EXTENDED MALE 	GAMME-0410	1/4	M 10x1.0		
	GAMME-0412	1/4	M 12x1.0		
	GAMME-0412	1/4	M 12x1.5		
	GAMME-0414	1/4	M 14x1.5		
	GAMME-0616	3/8	M 16x1.5		
	GAMME-0618	3/8	M 18x1.5		
	GAMME-0620	3/8	M 20x1.5		
	GAMME-0622	3/8	M 22x1.5		
	GAMME-0816	1/2	M 16x1.5		
	GAMME-0818	1/2	M 18x1.5		
	GAMME-0820	1/2	M 20x1.5		
	GAMME-0822	1/2	M 22x1.5		

GBJB	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BSP BANJO	GBJB-0404	1/4	G 1/4B-19		
	GBJB-0606	3/8	G 3/8B-19		
	GBJB-0808	1/2	G 1/2B-14		
	GBJB-1010	5/8	G 5/8B-14		
	GBJB-1212	3/4	G 3/4B-14		
	GBJB-1616	1	G 1B-11		

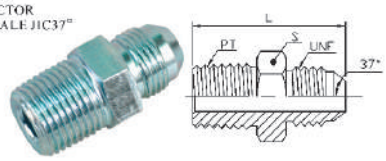


GBJM	PRODUCT CODE	HOSE BORE (IN.)	THREAD SIZE (IN.)	PRICE	PRICE 45° / 90°
BANJO PARALLEL DIN 7642	GBJM-0412	1/4	M 12x1.5		
	GBJM-0614	3/8	M 14x1.5		
	GBJM-0616	3/8	M 16x1.5		
	GBJM-0618	3/8	M 18x1.5		
	GBJM-0818	1/2	M 18x1.5		
	GBJM-0822	1/2	M 22x1.5		
	GBJM-1022	5/8	M 22x1.5		
	GBJM-1226	3/4	M 26x1.5		



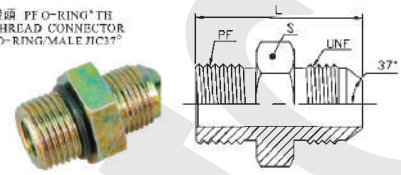
JIC 37

直型接頭 PT*TH
MALE CONNECTOR
MALE BSPT/MALE JIC37°



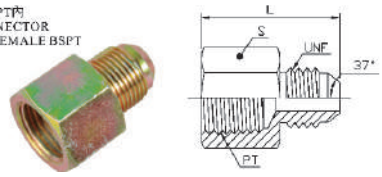
JM-BMT

直型大六角接頭 PF O-RING*TH
STRAIGHT THREAD CONNECTOR
MALE BSPP O-RING/MALE JIC37°



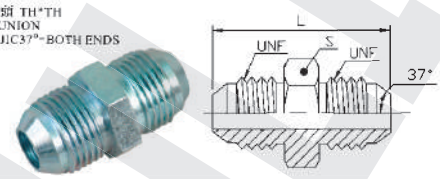
JM-BMO

鉄接接頭 TH*PT內
FEMALE CONNECTOR
MALE JIC37°/FEMALE BSPT



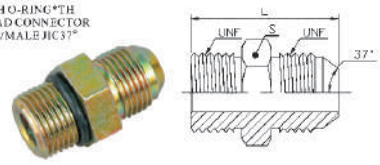
JM-BNT

直型接頭 TH*TH
TUBE UNION
MALE JIC37°-BOTH ENDS



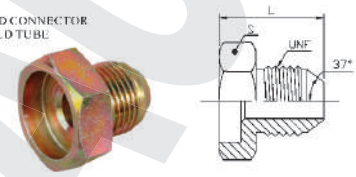
JM-JM

直型大六角接頭 TH O-RING*TH
STRAIGHT THREAD CONNECTOR
MALE JIC O-RING/MALE JIC37°



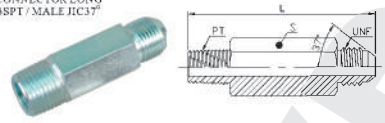
JM-SMO

TH 大六角套焊
LARGE HEX WELD CONNECTOR
MALE JIC37°/WELD TUBE



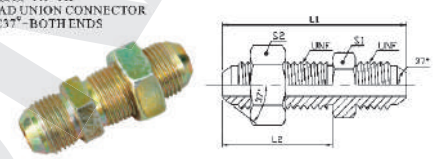
JM-LVR

直型加長接頭 PT加長*TH
MALE CONNECTOR LONG
MALE BSPT / MALE JIC37°



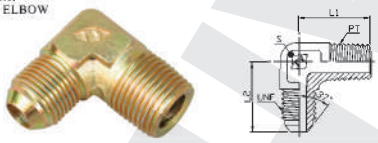
JM-BMTL

直型隔間接頭 TH*TH
BULKHEAD UNION CONNECTOR
MALE JIC37°-BOTH ENDS



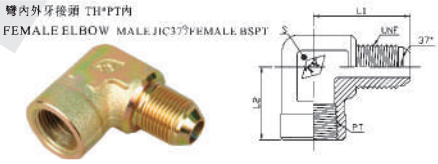
JM-JML

彎型接頭 PT*TH MALE BSPT/MALE JIC37°
MALE ELBOW



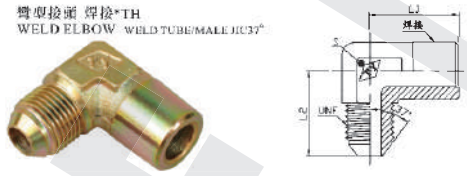
JM-BMT 90

彎內外牙接頭 TH*PT內
FEMALE ELBOW MALE JIC37°/FEMALE BSPT



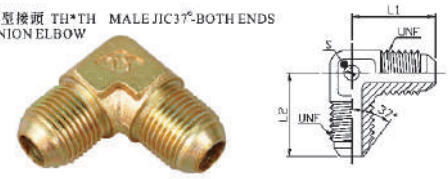
JM-BNT 90

彎型接頭 焊接*TH
WELD ELBOW WELD TUBE/MALE JIC37°



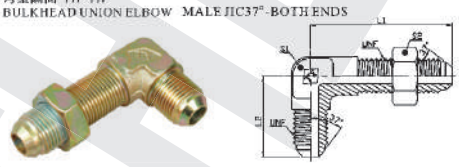
JM-LVR 90

彎型接頭 TH*TH MALE JIC37°-BOTH ENDS
UNION ELBOW



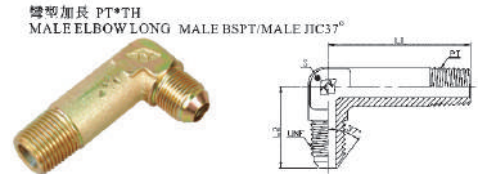
JM-JM 90

彎型隔間 TH*TH
BULKHEAD UNION ELBOW MALE JIC37°-BOTH ENDS



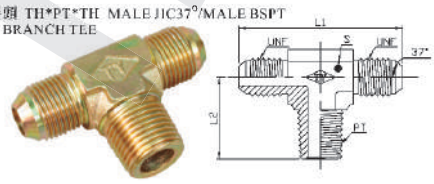
JM-JML 90

彎型加長 PT*TH
MALE ELBOW LONG MALE BSPT/MALE JIC37°



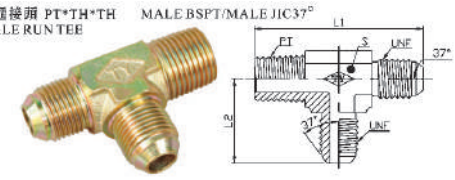
JM-BMTL 90

三通接頭 TH*PT*TH MALE JIC37°/MALE BSPT
MALE BRANCH TEE



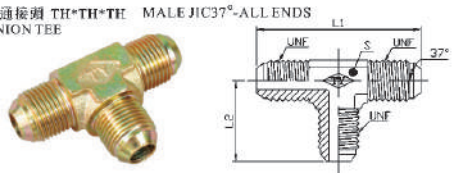
JM-BMT-JM

三通接頭 PT*TH*TH MALE BSPT/MALE JIC37°
MALE RUN TEE



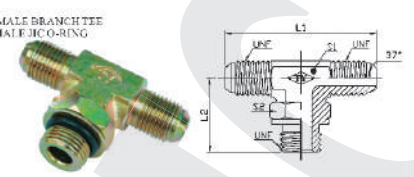
BMT-JM-JM

三通接頭 TH*TH*TH MALE JIC37°-ALL ENDS
UNION TEE



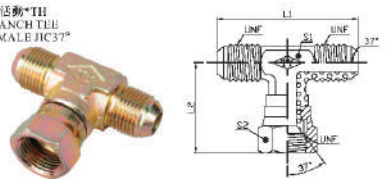
JM-JM-JM

二通萬向接頭
ADJUSTABLE MALE BRANCH TEE
MALE JIC37°/MALE JIC O-RING



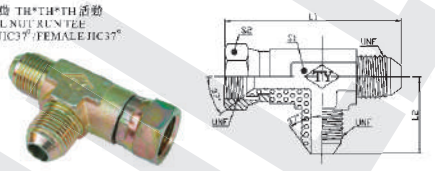
JM-SMO-JM

二通活動 TH*TH活動*TH
SWIVEL NUT BRANCH TEE
MALE JIC37°/FEMALE JIC37°



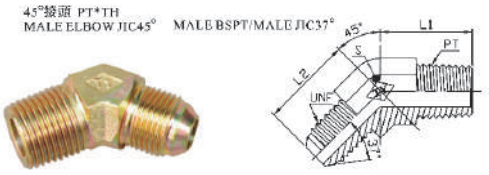
JM-JS-JM

一通活動 TH*TH*TH 活動
SWIVEL NUT RUN TEE
MALE JIC37°/FEMALE JIC37°



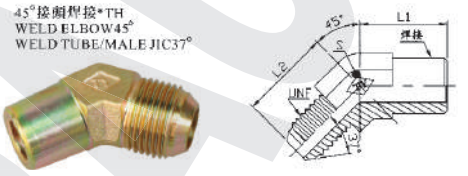
JS-JM-JM

45°接頭 PT*TH
MALE ELBOW JIC45° MALE BSPT/MALE JIC37°



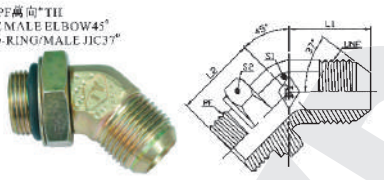
JM-BMT 45

45°接頭焊接*TH
WELD ELBOW45°
WELD TUBE/MALE JIC37°



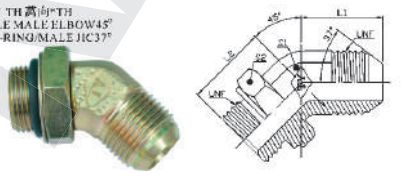
JM-LVR 45

45°萬向接頭 PF萬向*TH
ADJUSTABLE MALE ELBOW45°
MALE BSPP O-RING/MALE JIC37°



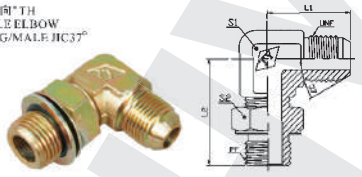
JM-BMO 45

45°萬向接頭 TH萬向*TH
ADJUSTABLE MALE ELBOW45°
MALE JIC O-RING/MALE JIC37°



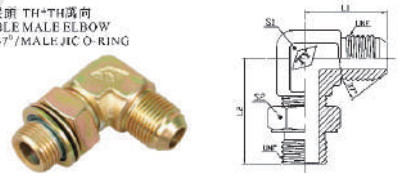
JM-SMO 45

彎型萬向接頭 PF萬向*TH
ADJUSTABLE MALE ELBOW
MALE BSPP O-RING/MALE JIC37°



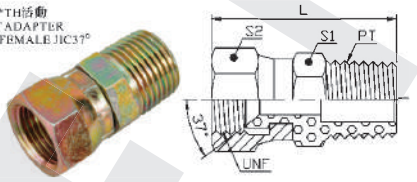
JM-BMO 90

彎型萬向接頭 TH*TH萬向
ADJUSTABLE MALE ELBOW
MALE JIC37°/MALE JIC O-RING



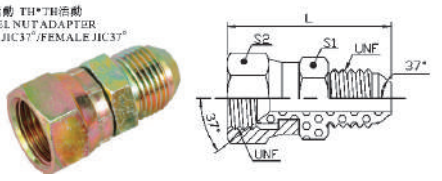
JM-SMO 90

直型活動 PT*TH活動
SWIVEL NUT ADAPTER
MALE BSPT/FEMALE JIC37°



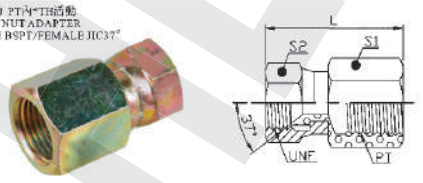
JS-BMT

直型活動 TH*TH活動
SWIVEL NUT ADAPTER
MALE JIC37°/FEMALE JIC37°



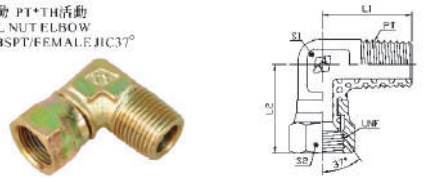
JS-JM

直型活動 PT內*TH活動
SWIVEL NUT ADAPTER
FEMALE BSPT/FEMALE JIC37°



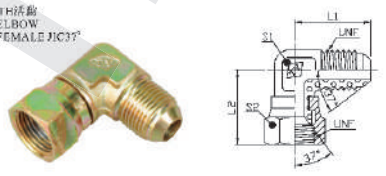
JS-BNT

彎型活動 PT*TH活動
SWIVEL NUT ELBOW
MALE BSPT/FEMALE JIC37°



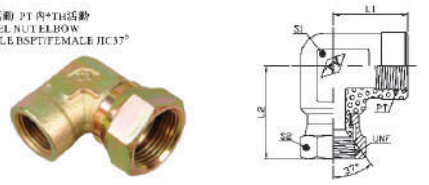
JS-BMT 90

彎型活動 TH*TH活動
SWIVEL NUT ELBOW
MALE JIC37°/FEMALE JIC37°

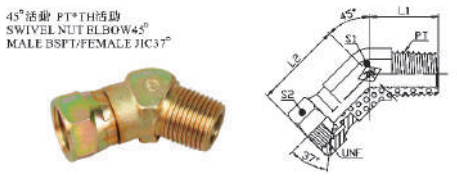


JS-JM 90

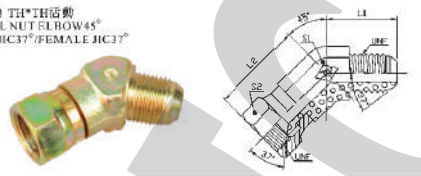
彎型活動 PT內*TH活動
SWIVEL NUT ELBOW
FEMALE BSPT/FEMALE JIC37°



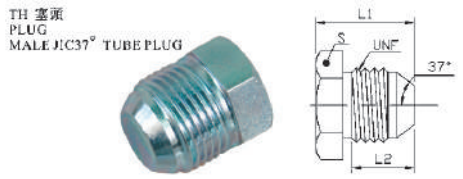
JS-BNT 90



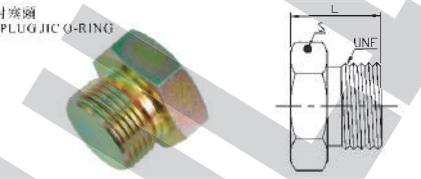
JS-BMT 45



JS-JM 45

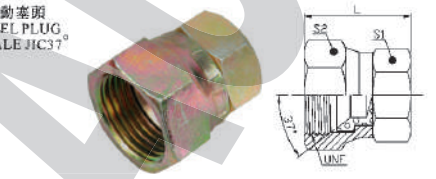


JM PLUG

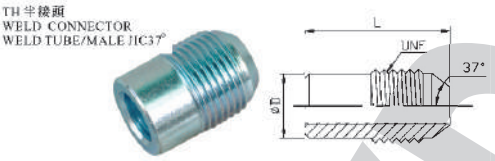


SMO PLUG

JN CAP

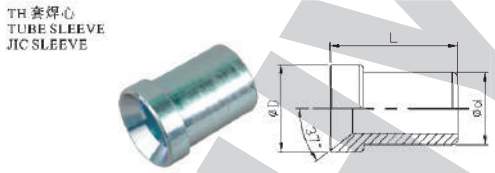


JS PLUG



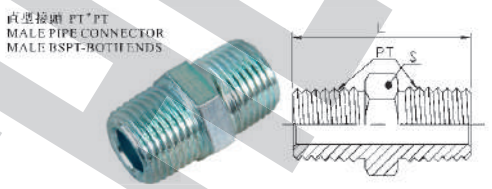
WJM

HN NUT

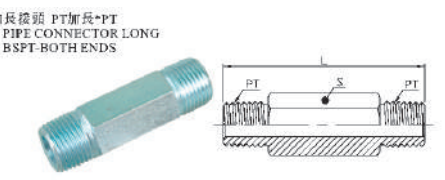


HNS SLEEVE

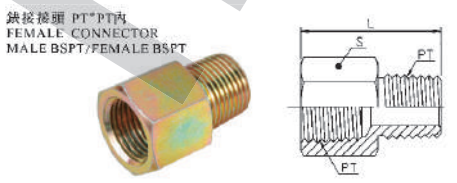
BSPT



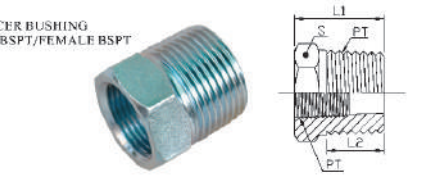
BMT-BMT



BMT-BMTL

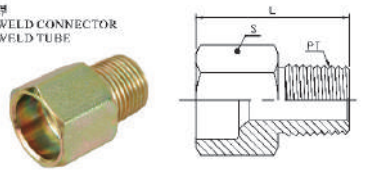


FM CONNECTOR



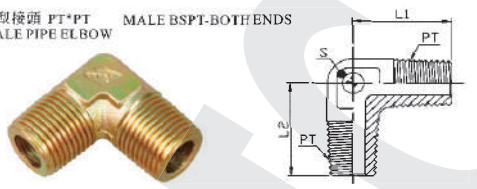
BH BUSHING

PT 大六角套焊
LARGE HEX WELD CONNECTOR
MALE BSPT/WELD TUBE



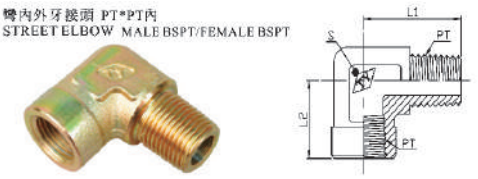
BMT-LVR

彎型接頭 PT*PT MALE BSPT-BOTH ENDS
MALE PIPE ELBOW



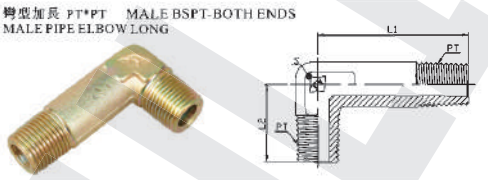
BMT-BMT 90

彎內外牙接頭 PT*PT內
STREET ELBOW MALE BSPT/FEMALE BSPT



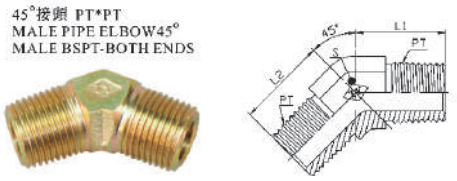
BMT-BNT 90

彎型加長 PT*PT MALE BSPT-BOTH ENDS
MALE PIPE ELBOW LONG



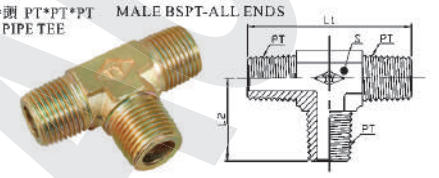
BMT-BMTL 90

45°接頭 PT*PT
MALE PIPE ELBOW45°
MALE BSPT-BOTH ENDS



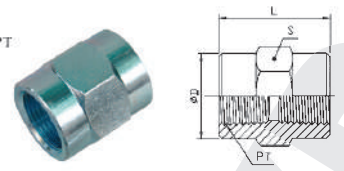
BMT-BMT 45

三通接頭 PT*PT*PT MALE BSPT-ALL ENDS
MALE PIPE TEE



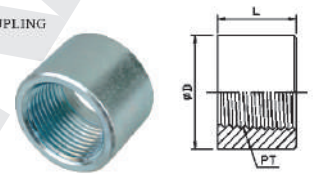
BMT-BMT-BMT

PT 雙內牙
SOCKET
FEMALE BSPT



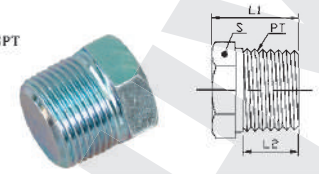
BNT-BNT

PT 半內牙
WELD-ON HALF COUPLING
FEMALE BSPT



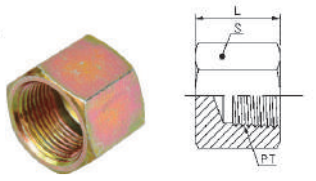
PES

PT 塞頭
PIPE PLUG
MALE PLUG BSPT



BMT PLUG

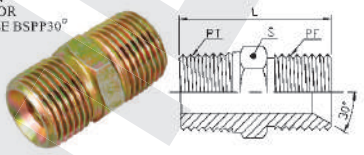
PT 螺母塞頭
FEMALE PIPE CAP
FEMALE BSPT



BNT CAP

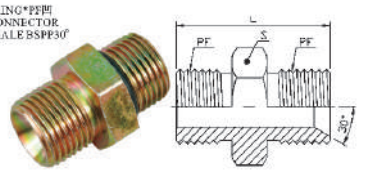
BSPP

直型接頭 PT*PF凹
MALE CONNECTOR
MALE BSPT/MALE BSPP30°



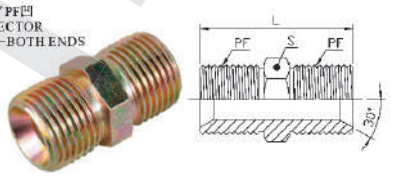
BM-BMT

直型大六角接頭 PF O-RING*PF凹
STRAIGHT THREAD CONNECTOR
MALE BSPP O-RING/MALE BSPP30°



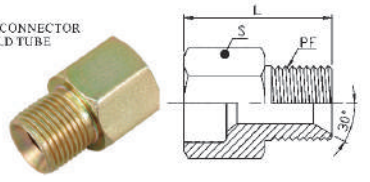
BM-BMO

直型接頭 PF凹*PF凹
UNION CONNECTOR
MALE BSPP30°-BOTH ENDS

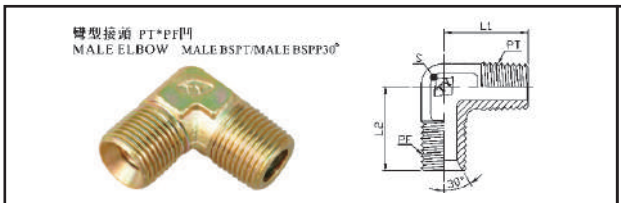


BM-BM

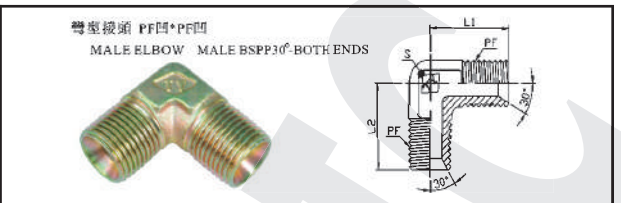
PF 凹 大六角套焊
LARGE HEX WELD CONNECTOR
MALE BSPP 30°/WELD TUBE



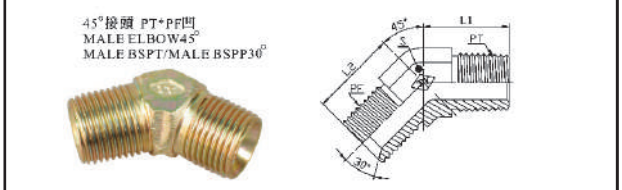
BM-LVR



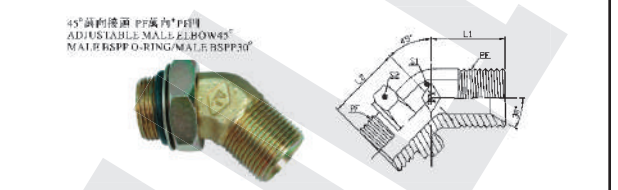
BM-BMT 90



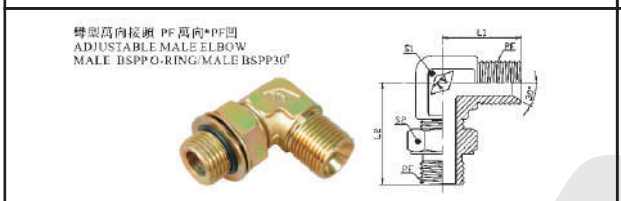
BM-BM 90



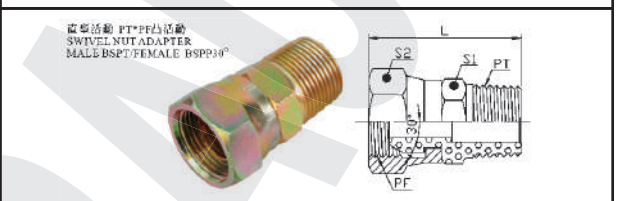
BM-BMT 45



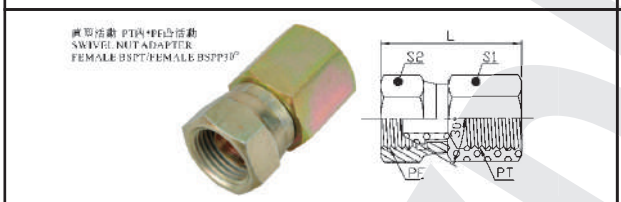
BM-BMO 45



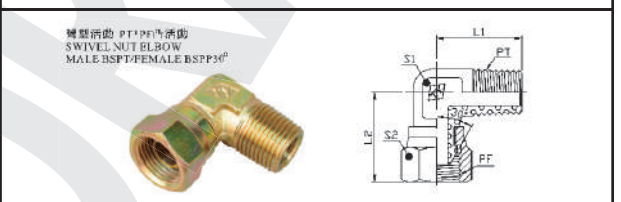
BM-BMO 90



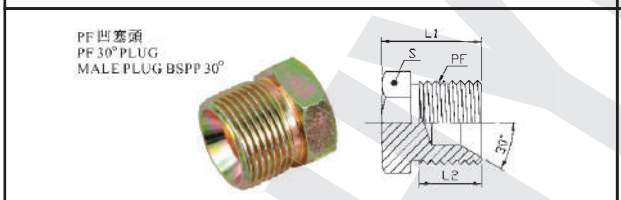
BS-BMT



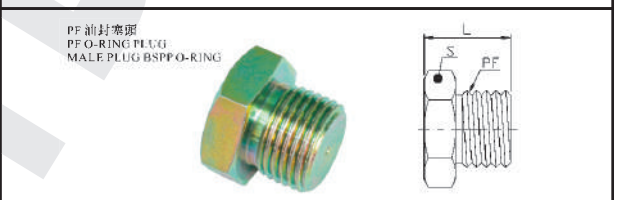
BS-BNT



BS-BMT 90

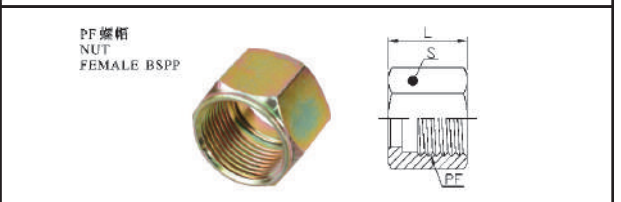


BM PLUG

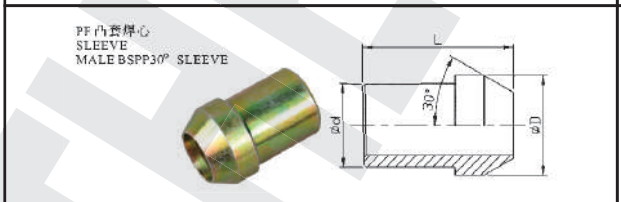


BMO PLUG

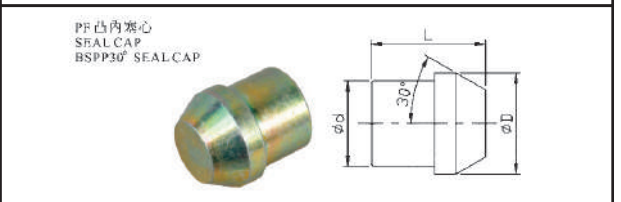
BS PLUG



PSXA NUT

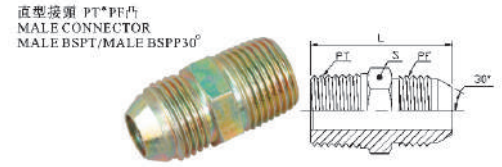


PSWCV SLEEVE

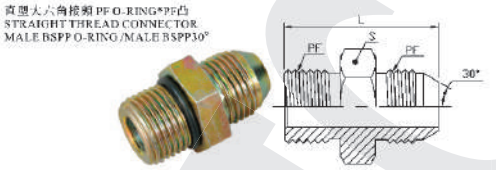


PSWV SLEEVE

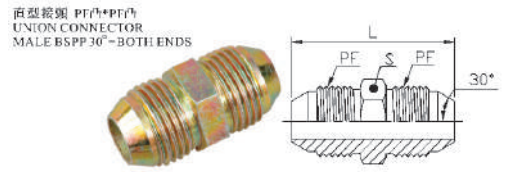
BMI



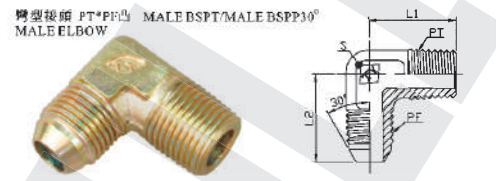
BMI-BMT



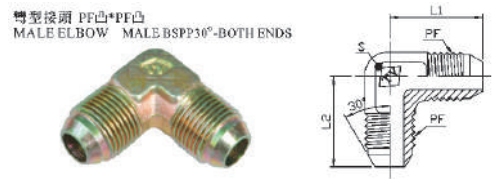
BMI-BMO



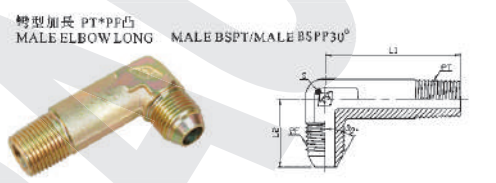
BMI-BMI



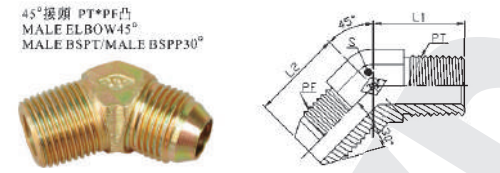
BMI-BMT 90



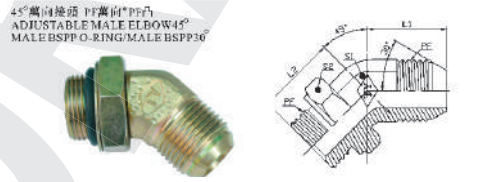
BMI-BMI 90



BMI-BMTL 90

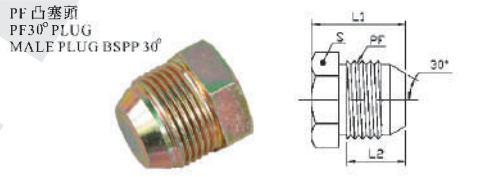


BMI-BMT 45

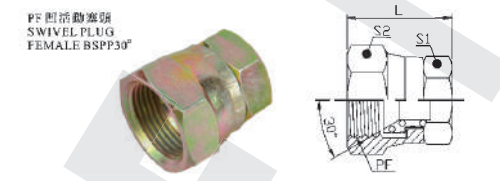


BMI-BMO 45

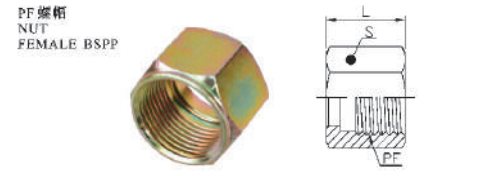
BMI-BMO 90



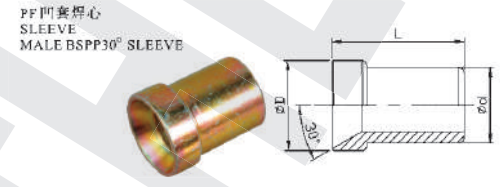
BMI PLUG



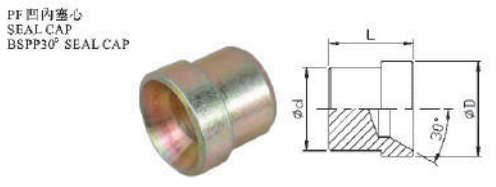
BFS PLUG



PSXA NUT



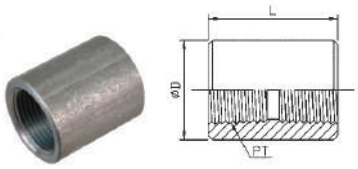
PSLCV SLEEVE



PSLV SLEEVE

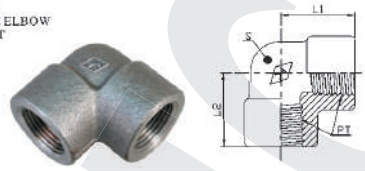
BSPT 3000PSI

PT 雙內牙(圓)
SOCKET
FEMALE BSPT



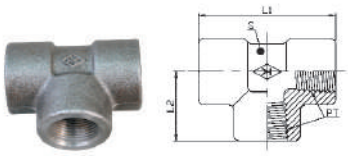
PPEM

高壓內牙彎頭
FEMALE PIPE ELBOW
FEMALE BSPT



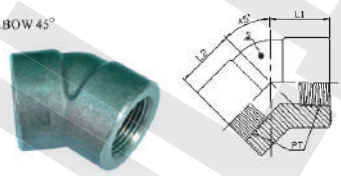
BNT-BNT 90

高壓三通內牙
FEMALE PIPE TEE
FEMALE BSPT



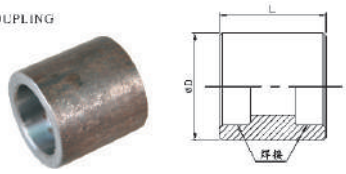
BNT-BNT-BNT

高壓45°內牙
FEMALE PIPE ELBOW 45°
FEMALE BSPT



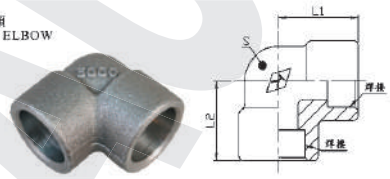
BNT-BNT 45

高壓套焊直接頭
WELD TUBE COUPLING
WELD TUBE



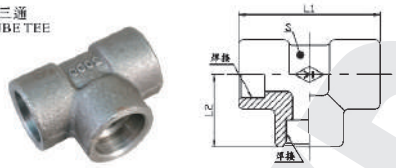
PPEM2C

高壓套焊彎頭
WELD TUBE ELBOW



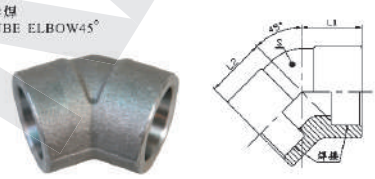
PSL

高壓套焊三通
WELD TUBE TEE



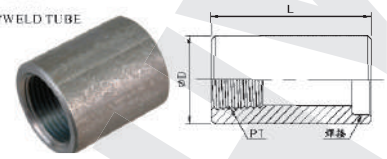
PST

高壓45°套焊
WELD TUBE ELBOW45°



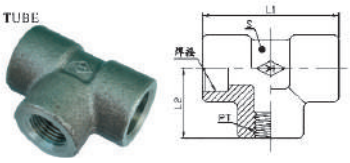
PSF

高壓內牙*套焊直接頭
COUPLING
FEMALE BSPT/WELD TUBE



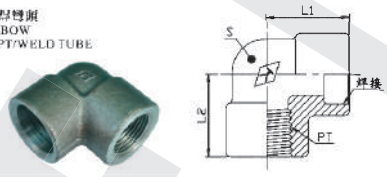
PPEC

高壓內牙*套焊三通
FEMALE TEE
FEMALE BSPT/WELD TUBE



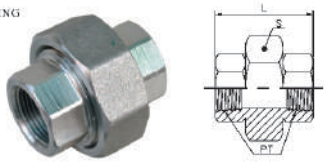
CSC

高壓內牙*套焊彎頭
FEMALE ELBOW
FEMALE BSPT/WELD TUBE



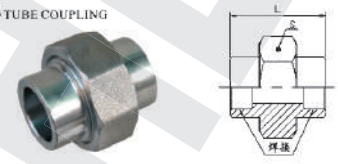
JCSU

高壓內牙由任
UNION PIPE COUPLING
FEMALE BSPT



UB

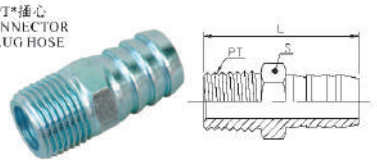
高壓套焊由任
UNION WELD TUBE COUPLING
WELD TUBE



UBC

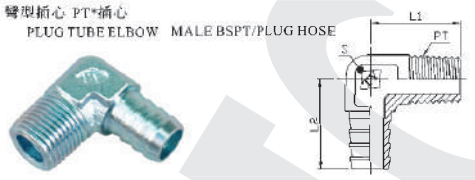
HOSE NIPPLE

直型插心接頭 PT*插心
PLUG TUBE CONNECTOR
MALE BSPT/PLUG HOSE



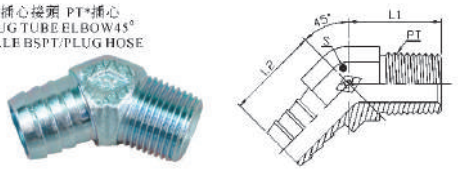
PN-S

彎型插心 PT*插心
PLUG TUBE ELBOW MALE BSPT/PLUG HOSE



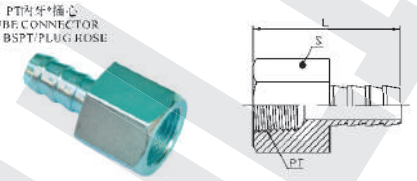
PN-L

45°插心接頭 PT*插心
PLUG TUBE ELBOW45°
MALE BSPT/PLUG HOSE



PN-F

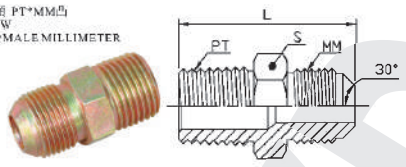
直型插心 PT內牙*插心
PLUG TUBE CONNECTOR
FEMALE BSPT/PLUG HOSE



PNS

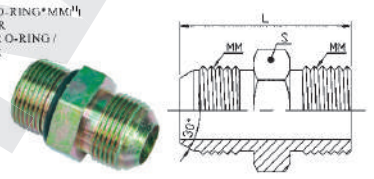
KOMUTSU

直型米厘接頭 PT*MM凸
MALE ELBOW
MALE BSPT/MALE MILLIMETER



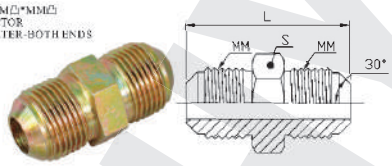
KM-BMT

直型米厘接頭 MM O-RING*MM凸
UNION CONNECTOR
MALE MILLIMETER O-RING /
MALE MILLIMETER



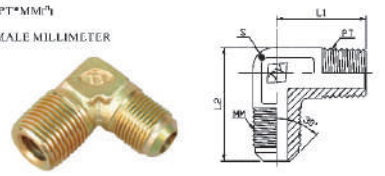
KM-KMO

直型米厘接頭 MM凸*MM凸
UNION CONNECTOR
MALE MILLIMETER-BOTH ENDS



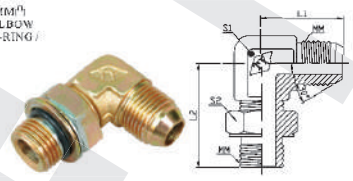
KM-KM

彎型米厘接頭 PT*MM凸
MALE ELBOW
MALE BSPT/MALE MILLIMETER



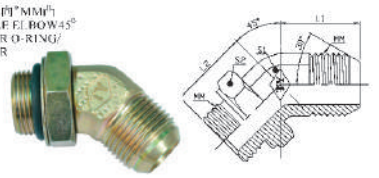
KM-BMT 90

彎為向接頭 MM為向*MM凸
ADJUSTABLE MALE ELBOW
MALE MILLIMETER O-RING /
MALE MILLIMETER



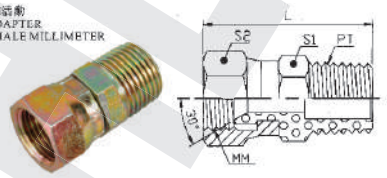
KM-KMO 90

45°為向接頭 MM為向*MM凸
ADJUSTABLE MALE ELBOW45°
MALE MILLIMETER O-RING/
MALE MILLIMETER



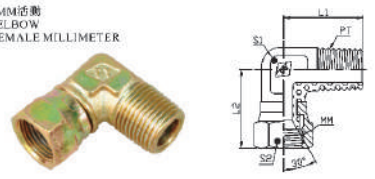
KM-KMO 45

直型活動 PT*MM活動
SWIVEL NUT ADAPTER
MALE BSPT/FEMALE MILLIMETER



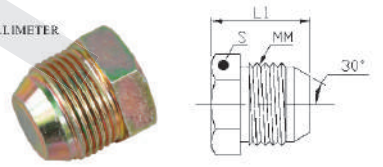
KS-BMT

彎型活動 PT*MM活動
SWIVEL NUT ELBOW
MALE BSPT/FEMALE MILLIMETER



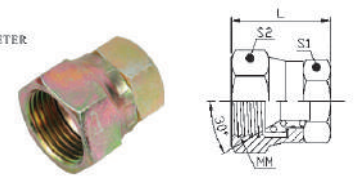
KS-BMT 90

米厘公牙塞頭
PLUG
MALE PLUG MILLIMETER



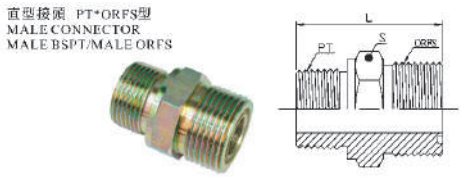
KM PLUG

米厘母活動塞頭
SWIVEL PLUG
FEMALE MILLIMETER

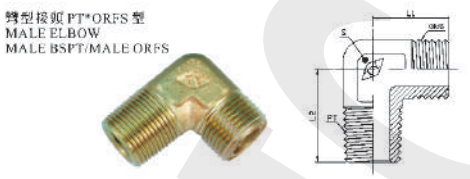


KS PLUG

ORM



ORM-BMT



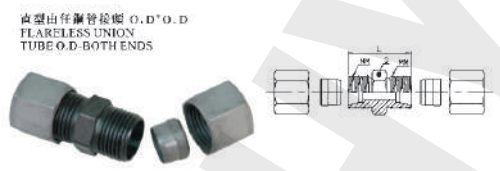
ORM-BMT 90

ORM PLUG

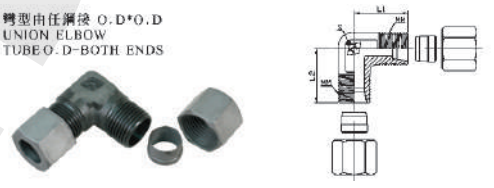
ข้อต่อตาไก่

KCT

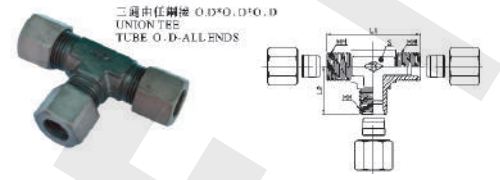
KLN



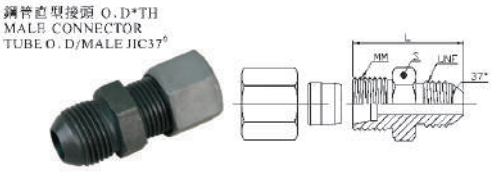
KUA



KLA

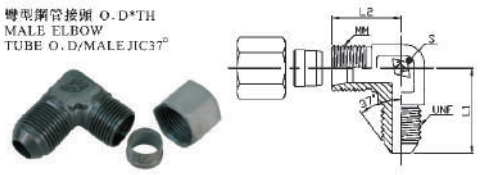


KTA

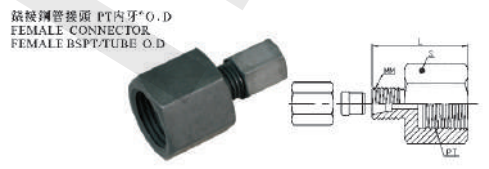


KUC

KUE

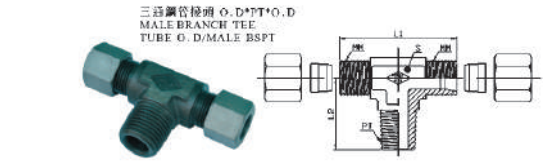


KLD



KGA

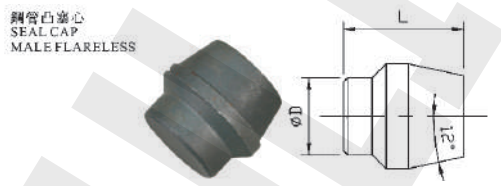
KTK



KTN

KLL

KUT

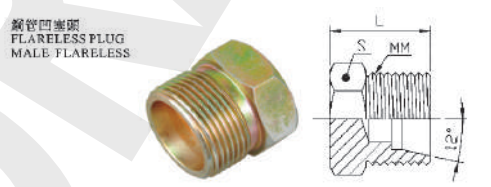


ENWL

KKD

KKN

AXO PLUG



AXNWL PLUG

ข้อต่อตาไก่

				
ตาไก่ - BSPP	ตาไก่ - BSPT	ตาไก่ - NPT	ตาไก่ - METRIC	ตาไก่ - UNF/UN
A	AP	A	A	A

				
ตาไก่ - BSPT	ตาไก่ - NPT	ตาไก่ - BSPP/UNF	ตาไก่ - BSPT	ตาไก่ - NPT
B	B	BE	C	C

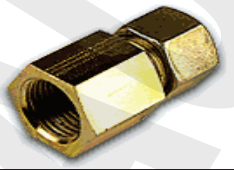
				
ตาไก่ - METRIC (T)	ตาไก่ - BSPT	ตาไก่ - NPT	ตาไก่ - METRIC	ยูเนี่ยนตาไก่ (ตรง)
C	D	D	D	E

				
ยูเนี่ยนตาไก่ (ลด)	ข้องอตาไก่	สามทางตาไก่	สามทางตาไก่ (ลด)	สี่ทางตาไก่
ER	F	G	GR	H

				
BULKHEAD (ตรง)	BULKHEAD (งอ)	BSPP/UNF/METRIC	BSPP/UNF/METRIC	BSPP/UNF/METRIC
K	L	SBD	SBE	SGE

ข้อต่อตาไก่

				
เมีย - BSPP	เมีย - NPT	เมีย - METRIC	เมีย - ผู้	ตรงกลางตัวเมีย
VA	VA	VA	VB	VC

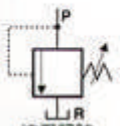
				
ด้านข้างตัวเมีย	เมีย 2 ข้าง (ตรง)	เมีย 2 ข้าง (ลด)	เกจย์ - ตาไก่ (ผู้)	เกจย์ - ตาไก่ (เมีย)
VD	EDKO	EDKOR	O	VODKO

				
ผู้ - เมีย (ลด)	NON-RETURN VALVE	แท่งอุด	อุดแป๊ป	อุด (มิล)
RL / RS	RD	STO	VSCHK	VSCH

				
ตาไก่	ฝาครอบ	สายทดสอบแรงดัน	สายทดสอบแรงดัน	สายทดสอบแรงดัน
DS	M	CSHMS	CSTMS	CSHMS-M

				
ข้อต่อลด BSPP	ข้อต่อทดสอบแรงดัน	ข้อต่อทดสอบแรงดัน	ข้อต่อทดสอบแรงดัน	ข้อต่อทดสอบแรงดัน
CSHRS	CSHE	CSHS	CSAD/CSH-CST	CSAD/CSH-CSS

Pilot Operated Relief Valves(Thread Type)
引導作動型調壓閥（配管式）



RV-04T, RV-06T, RV-10T

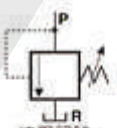
選購指南 HOW TO ORDER

RV	04	T	B
系列編號 SERIES NUMBER	閥孔口徑 VALVE SIZE	接續型式 TYPE OF CONNECTION T:THREADED TYPE	壓力調整範圍 PRESSURE ADJ. RANGE

性能表 SPECIFICATION

型式 MODEL 配管型 THREAD TYPE	壓力調整範圍 PRESSURE ADJ. RANGE (kgf/cm²)	最高使用壓力 MAX.OPERATING PRESSURE (kgf/cm²)	最大流量 MAX. FLOW ℓ/min	重量 WEIGHT (kg)
RV-04T	B:7-70	250	100	2.4
RV-06T	C:35-140		200	4.2
RV-10T	H:70-210		400	7.0

Pilot Operated Relief Valves(SUB-PLATE Type)
引導作動型調壓閥（座墊式）



RV-03G, RV-06G, RV-10G

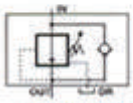
選購指南 HOW TO ORDER

RV	06	G	B
系列編號 SERIES NUMBER	閥孔口徑 VALVE SIZE	接續型式 TYPE OF CONNECTION G:SUB-PLATE TYPE	壓力調整範圍 PRESSURE ADJ. RANGE

性能表 SPECIFICATION

型式 MODEL 座墊型 SUB-PLATE TYPE	壓力調整範圍 PRESSURE ADJ. RANGE (kgf/cm²)	最高使用壓力 MAX.OPERATING PRESSURE (kgf/cm²)	最大流量 MAX. FLOW ℓ/min	重量 WEIGHT (kg)
RV-03G	B:7-70	250	100	5.3
RV-06G	C:35-140		200	6.7
RV-10G	H:70-210		400	11.6

Pressure Reducing and Check Valves
減壓閥附逆止閥



BRCV-03G BRCV-03T
BRCV-06G BRCV-06T
BRCV-10G BRCV-10T

選購指南 HOW TO ORDER

BRV	03	G	B
系列編號 SERIES NUMBER R:REDUCING RC:REDUCING ADDED TO DESIGNATED INTEGRAL CHECK	閥呼口徑 VALVE SIZE	連續型式 TYPE OF CONNECTION G:SUB-PLATE TYPE T:THREADED TYPE	壓力調整範圍 PRESSURE ADJ. RANGE

性能表 SPECIFICATION

減壓閥型式號碼 MODEL		最高使用壓力 MAX.OPERATING PRESSURE (kgf/cm²)	壓力調整範圍 PRESSURE ADJ. RANGE (kgf/cm²)	最大流量 MAX. FLOW ℓ/min	洩油量 DRAIN ℓ/min	重量 WEIGHT (kg)	
座墊型 SUB-PLATE TYPE	配管型 THREAD TYPE						
BRV-03G	BRV-03T	250	A:3-35 B:7-70 C:35-140 H:70-210	50	0.8-1	4.7	4.4
BRV-06G	BRV-06T			125	0.8-1.1	6.8	7.5
BRV-10G	BRV-10T			250	1.2-1.5	11.5	13
BRCV-03G	BRCV-03T			50	1.8-1	5.6	4.8
BRCV-06G	BRCV-06T			125	0.8-1.1	8.6	8
BRCV-10G	BRCV-10T			250	1.2-1.5	13.8	13.8

Pressure Reducing Valves
減壓閥

BRV-03G BRV-03T
BRV-06G BRV-06T
BRV-10G BRV-10T

Pressure Switch
壓力開關

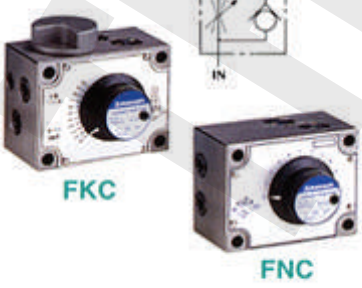
選購指南 HOW TO ORDER

AJCS	02	NL
系列編號 SERIES NUMBER	閥呼口徑 VALVE SIZE	壓力調整範圍 PRESSURE ADJ. RANGE

性能表 SPECIFICATION

壓力開關型式號碼 MODEL	壓力調整範圍 PRESSURE ADJ. RANGE (kgf/cm²)	最高壓力 MAX. PRESSURE (kgf/cm²)	重量 WEIGHT (kg)
JCD-02-S	3-30	70	0.8
AJCS-02	N:30-210 NL:15-60 NLL:3-35	210 210 70	1

Flow Control Valves
流量控制閥



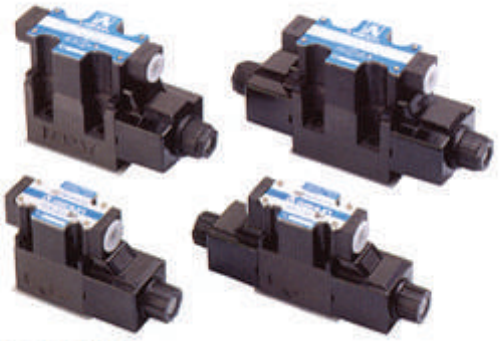
選購指南 HOW TO ORDER

FNC	G	02
系列編號 SERIES NUMBER	連續型式 TYPE OF CONNECTION G:SUB-PLATED TYPE	閥呼口徑 VALVE SIZE

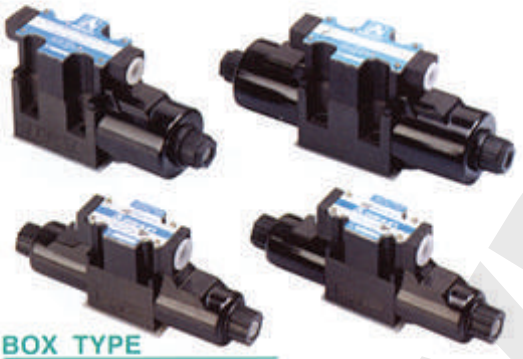
性能表 SPECIFICATION

型式 MODEL	最高使用壓力 MAX.OPERATED PRESSURE (kgf/cm²)	流量調整範圍 WITHIN FLOW RATE ADJUSTING. ℓ/min	自由流量 FREE FLOW ℓ/min	重量 WEIGHT (kg)
FNC-G02	70	0.01-4	20	1.2
FNC-G03	70	0.01-8	30	1.9
FKC-G02	70	0.01-4	20	1.2
FKC-G03	70	0.01-8	30	1.9
FYC-G02	70	0.01-4	20	1.2

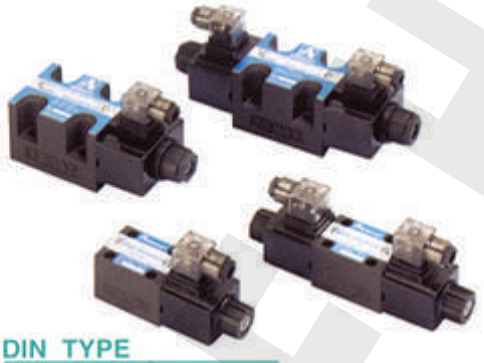
Solenoid Operated Directional Control Valves
電磁切換閥



BOX TYPE



BOX TYPE



DIN TYPE

DIN TYPE

選購指南 HOW TO ORDER

AHD	G	02	3C2	***	10
方向切換閥 DIRECTIONAL CONTROL VALVES	配管方式 PIPING WAY	閥座口徑 VALVE SIZE	滑閥種類 SPOOL TYPE	使用電源 交流:AC220V/AC110V 直流:DC12V/DC24V 交直流:RF110V/RF220V POWER SOURCE AC220V/AC110V DC12V/DC24V	接線方式 TYPE OF CONNECTION: 10: BOX type 20: DIN type

特長：
*提高性能，流量大而且減少內部抵抗。
*附霓虹指示燈，可指示動作方向。
*切換動作時，吸著音非常小而且振動小。

FEATURES:
*Increase the performance for big flow with low resistance for the interior.
*With neon pilot to indicate the direction of movement.
*Conversion action is noiseless and small vibration.

型式 MODEL

口徑 D PT	最大流量 MAX. FLOW ℓ/min	最高使用壓力 MAX. PRESSURE (kgf/cm²)	容許背壓 BACK PRESSURE ALLOWABLE (kgf/cm²)	切換頻率 CONVERSION FREQUENCY
G02	60	350	70-160	300 RF120
G03	120	350	70-160	240 RF120

電磁線圈特性 FEATURES OF MAGNETIC COIL

電壓(V) VOLTAGE(V)		起動電流(A) START CURRENT		保持電流(A) HOLDING CURRENT	
定格電壓 RATED VOLTAGE	使用範圍 RANGE OF USAGE	02	03	02	03
AC110V	99V-121V	2.45	4.4	0.41	0.55
AC220V	198V-242V	1.21	2.2	0.21	0.27
DC12V	10.8V-13.2V			2.6	3.8
DC24V	21.6V-26.4V			1.3	1.9
RF110V	99V-121V			0.38	0.54
RF220V	198V-242V			0.19	0.27

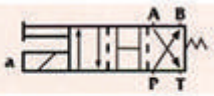
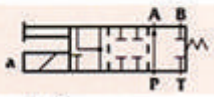
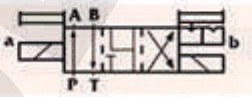
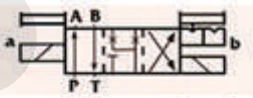
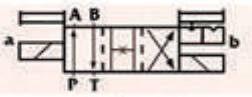
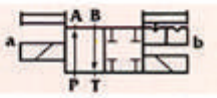
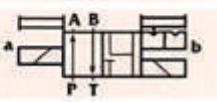
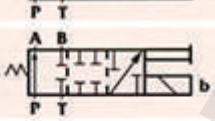
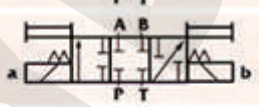
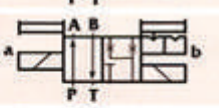
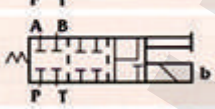
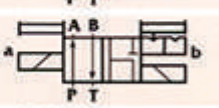
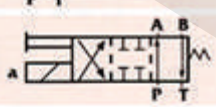
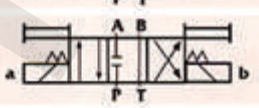
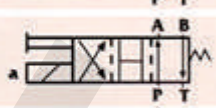
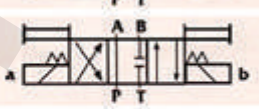
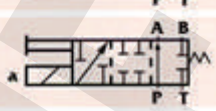
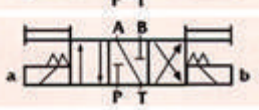
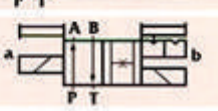
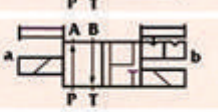
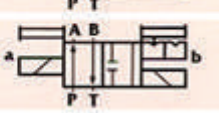
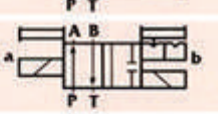
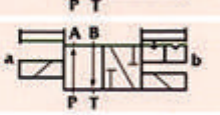
注意事項：
*無彈簧形閥以水平按裝為妥。
*安裝面與閥面同時保持3.2z表面。
*R孔不能阻塞使用，否則影響效果。

NOTICES:
*ISpringless shaped walve will be installed horizontally.
*Installation surface and valve surface will keep 3.2z.
*Rport shall not be blocked for use, otherwise, the effect will be influenced.

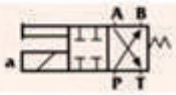
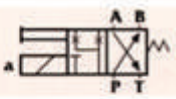
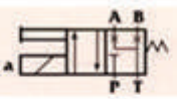
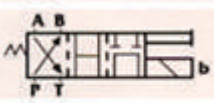
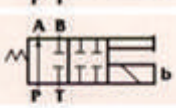
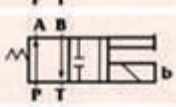
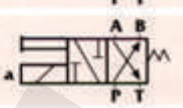
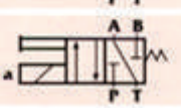
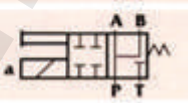
附屬品：
*G02-螺絲 M5x45L.....4支
*G03-螺絲 M6x35L.....4支

ACCESSORIES:
*G02-Screw M5x45L.....4pcs
*G03-Screw M6x35L.....4pcs

迴路種類明細表 LIST OF SPOOL FUNCTIONS (AHD-02, AHD-03)

彈簧偏位二位置 SPRING OFFSET 2 POSITION	圖形符號 GRAPHIC SYMBOLS 標準組立 STANDARD ASSEMBLAGE	彈簧中心三位置 SPRING CENTERED 3 POSITION	圖形符號 GRAPHIC SYMBOLS 標準組立 STANDARD ASSEMBLAGE	無彈簧二位置 SPRING DETENTED 2 POSITION	圖形符號 GRAPHIC SYMBOLS 標準組立 STANDARD ASSEMBLAGE
2A2		3C2		2D2	
2A3		3C3		2D3	
2A14		3C4		2D4	
2A2L		3C40		2D40	
2A3L		3C5		2D7	
2A14L		3C6		2D2A	
2B2		3C60		2D3A	
2B3		3C7		2D4A	
2B8		3C8		2D40A	
2B29		3C9		2D5A	
2B2L		3C10		2D6A	
2B3L		3C11		2D60A	
2B8L		3C12		2D7A	
2B29L		3C25		2D9A	
		3C29		2D10A	
		3C48		2D11A	
		3C94		2D12A	

迴路種類明細表 LIST OF SPECIAL TWO POSITION VALVES.(AHD-02, AHD-03)

彈簧偏位二位圖 SPRING OFFSET 2 POSITION	圖形符號 GRAPHIC SYMBOLS 標準組立 STANDARD ASSEMBLAGE	圖形符號 GRAPHIC SYMBOLS 反向組立 ALTERNATED	彈簧偏位二位圖 SPRING OFFSET 2 POSITION	圖形符號 GRAPHIC SYMBOLS 標準組立 STANDARD ASSEMBLAGE	圖形符號 GRAPHIC SYMBOLS 反向組立 ALTERNATED
2B2A			2B2B		
2B3A			2B3B		
2B4A			2B4B		
2B40A			2B40B		
2B5A			2B5B		
2B6A			2B6B		
2B60A			2B60B		
2B7A			2B7B		
2B8A			2B8B		
2B9A			2B9B		
2B10A			2B10B		
2B11A			2B11B		
2B12A			2B12B		
2B25A			2B25B		
2B29A			2B29B		
2B48A			2B48B		

Gauge Cocks
壓力計考克

SB-02 GCT-02L GCT-03L GCT-04L GCT-02 GCT-03 GCT-04

選購指南 HOW TO ORDER

ST	02	L
系列編號 SERIES NUMBER	閥呼口徑 VALVE SIZE	無記號：180° VALVE SIZE L:90°

性能表 SPECIFICATION

型式 MODEL		最高使用壓力 MAX.OPERATED PRESSURE (kgf/cm²)	定格流量 RATED FLOW ℓ/min
直線型 180°	直角型 90°		
ST-02	ST-02L	210	2
ST-03	ST-03L	210	21
ST-04		210	30
GCT-02	GCT-02L	350	2
GCT-03	GCT-03L	350	21
GCT-04		350	30
SB-02		70	0.5

Glycerine Pressure Gauges
壓力計

LBD-602P-10

LA-602P-150

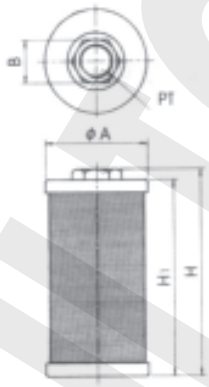
選購指南 HOW TO ORDER

LA	60	2P	150
系列編號 SERIES NUMBER	面徑 DIAL SIZE(mm) 40-1½" 50-2" 60-2½" 75-3" 100-4"	管牙 PT(inch) 1P: ⅛ PT 2P: ¼ PT 3P: ⅜ PT 4P: ½ PT	最高壓力 MAX.PRESSURE (kgf/cm²)

性能表 SPECIFICATION

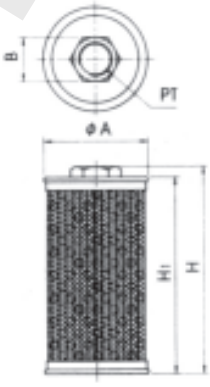
型式 MODEL	面徑 DIAL SIZE	管牙 PT	壓力 PRESSURE RANGE (kgf/cm²)
LA充油・無緣・立式 Fill oil,No side,Stand type	40mm 1½"	⅛" (1P)	1 70
LB充油・有緣・立式 Fill oil,With side,Stand type	50mm 2"	¼" (2P)	2 100
LAD充油・無緣・埋入式 Fill oil,No side,Insert type	60mm 2½"	⅜" (3P)	3.5 150
LBD充油・有緣・埋入式 Fill oil,With side,Insert type	75mm 3"	½" (4P)	5 200
PA一般・無緣・立式 Regular,No side, Stand type	100mm 4"		7 250
PB一般・有緣・立式 Regular,With side, Stand type			10 300
PAD一般・無緣・埋入式 Regular,No side, Insert type			15 350
PBD一般・有緣・埋入式 Regular,With side, Insert type			20 400
			25 500
			30 700
			35 1000
			50

N TYPE SUCTION FILTER



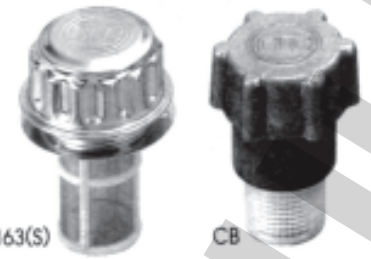
型式編號 Model	口徑 PT	A mm	B mm	H1 mm	H mm	流量 Flow l/min	過濾精度(目) Filtration mesh	重量 Weight kg
N-04	1/2"	64	27	153	160	35	150	0.27
N-06	3/4"	64	34	153	166	46		0.28
N-08	1"	83	42	198	210	90		0.48
N-10	1 1/4"	103	53	215	231	150		0.77
N-12	1 1/2"	122	61	232	246	205		0.96
N-16	2"	122	74	317	332	320		1.27
N-20	2 1/2"	148	105	419	434	550		2.0
N-24	3"					600		2.68

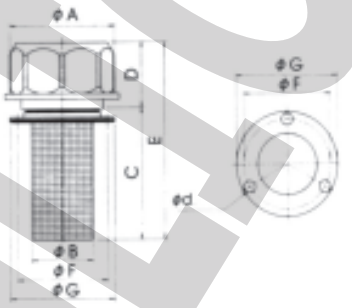
MF TYPE SUCTION FILTER



型式編號 Model	口徑 PT	A mm	B mm	H1 mm	H mm	流量 Flow l/min	過濾精度(目) Filtration mesh	重量 Weight kg
MF-02	1/4"	54	21	86	92	20	100	0.09
MF-03	3/8"					25		
MF-04	1/2"		27			30		
MF-06	3/4"	66	34	121	137	55		0.15
MF-08	1"		42	147	163	90		0.18
MF-10	1 1/4"		54	166	184	210		0.21
MF-12	1 1/2"	85	61	177	194	285		0.32
MF-16	2"	105	74	198	214	395		0.42
MF-20	2 1/2"	158	109	252	275	550		1.07
MF-24	3"					600		
MF-32	4"	208	142	356	379	1000		2.45

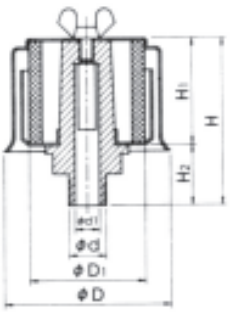
FILLER BREATHER FILTERS





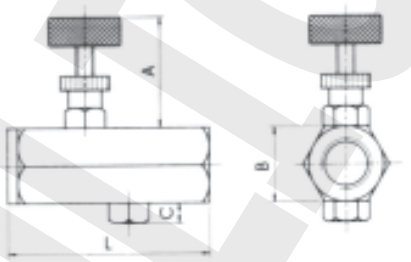
型式編號 Model	活動網口徑 Net Dia mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	d×孔數 Hole	過濾精度 Filtration micron	重量 Weight kg
AB-1162	32	53	31	65	34	99	45.5	53	ϕ6×3	400	0.07
AB-1162(S)											
AB-1163	50	75	48	88	49	137	71	88	ϕ6×6		0.19
AB-1163(S)											
CB-16	53	86	48	108	39	147	For Tank Side Using /Welding			400	0.56
CB-16D											0.58

AIR FILTERS



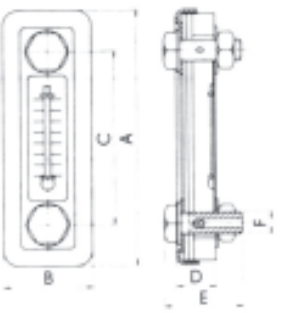
型式編號 Model	d PT	d1 mm	D mm	D1 mm	H1 mm	H2 mm	H mm	過濾精度 Filtration micron
AB-02	1/4"	8	52	41	36	22	58	40
AB-03	3/8"							
AB-04	1/2"	19	67	51	41	27	68	
AB-06	3/4"							
AB-08	1"	25	100	65	45	26	74	
AB-16	2"	48	130	92	90	37	130	
AB-20	2 1/2"	61	187	150	115	59	174	
AB-32	4"	113	210	165	140	50	193	

THROTTLE & CHECK VALVE



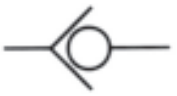
型式編號 Model	口徑 PT	A mm	B mm	C mm	L mm	流量 Flow l/min	材質 Material	最高壓力 Max. Pressure kgf/cm²	重量 Weight kg
PT-02	1/4"	40	23	7	62	12	(Steel)	230	0.24
PT-03	3/8"	38	26		70	20	(Steel)		0.30
PT-04	1/2"	43	32	10	81	30	(Steel)		0.50
PT-06	3/4"	47	41	12	92	48	(Steel)		0.92
PT-02N	1/4"	40	23		62	12	(Steel)		0.24
PT-03N	3/8"	38	26		70	20	(Steel)		0.30
PT-02	1/4"	40	23	7	62	12	(Copper)	30	0.24
PT-03	3/8"	38	26		70	20	(Copper)		0.30

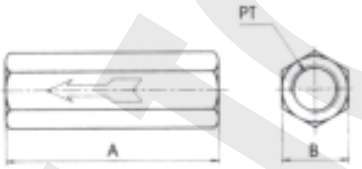
FLUID LEVEL & TEMPERATURE GAUGES



型式編號 Model	A mm	B mm	C mm	D mm	E mm	F mm	重量 Weight kg
LS-3"	118	41	80	18	37	M10	0.18
LS-7"	180	52	127	19.5	46	M12	0.33
KS-3"	101	36.5	76	19	38	M10	0.10
KS-5"	151		127				0.12
LG-3"	105	25	74.5	13	46.5	M10	0.12
LG-4"	130		99				0.13
LG-5"	155		127				0.14
LG-200	230	28	200	25	54	M12	0.29
LG-300	330		300		63		0.38
LG-400	430		400		54		0.44
LG-500	530		500				0.52

INLINE CHECK VALVES

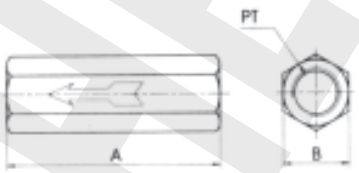




型式編號 Model	口徑 PT	A mm	B mm	流量 Flow l/min	最高壓力 Max. Pressure kgf/cm²	重量 Weight kg
CV-03	3/8"	74	23	40	210	0.18
CV-04	1/2"	81	29	60		0.33
CV-06	3/4"	91	35	100		0.48
CV-08	1"	114	46	150		1.10
CV-10	1 1/4"	133	56	200		1.98
CV-12	1 1/2"	134	66	280		2.78
CV-16	2"	153	76.5	400		3.64
CIT-03	3/8"	74	23	40	315	0.18
CIT-04	1/2"	81	29	60		0.33
CIT-06	3/4"	91	35	100		0.48
CIT-08	1"	114	46	150		1.10
CIT-10	1 1/4"	133	56	200		1.98
CIT-12	1 1/2"	134	66	280		2.78
CIT-16	2"	153	76.5	400		3.64

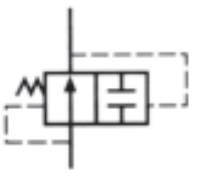
Remarks: The valve crack preasure of CV inline check valve are 0.5kgf/cm² and 5kgf/cm².

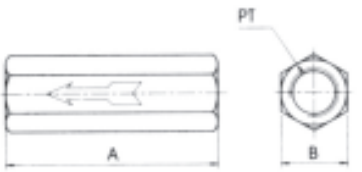
AIR BLEED VALVES



型式編號 Model	口徑 PT	A mm	B mm	重量 Weight kg
CV-02P	1/4"	54	22	0.10

EMERGENCY VALVES





型式編號 Model	口徑 PT	A mm	B mm	重量 Weight kg
CV-03Q	3/8"	74	23	0.18

High-Pressure 2-Way Ball Valves

BKH Steel
PN 500 bar

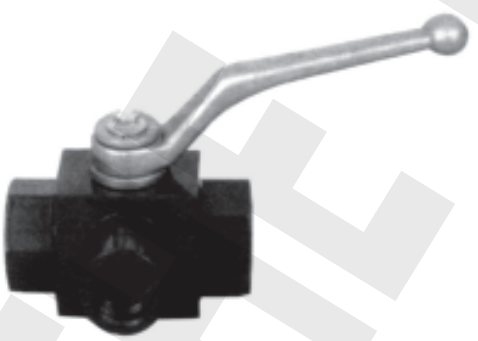
BKH Stainless Steel
PN 500 bar

Block body : steel
Ball : steel, hard chromium plated
Ball seals : Delrin
Spindle seals : Perbunan (Buna N) or Viton

Theard (BSPP)	Order Code	Working Pressure Bar
G1/8"	BKH-G1/8	500
G1/4"	BKH-G1/4	500
G3/8"	BKH-G3/8	500
G1/2"	BKH-G1/2	500
G5/8"	BKH-G5/8	400
G3/4"	BKH-G3/4	315
G1"	BKH-G1	315
G1 1/4"	BKH-G1 1/4	315

High-Pressure 3-Way Selector Ball Valves

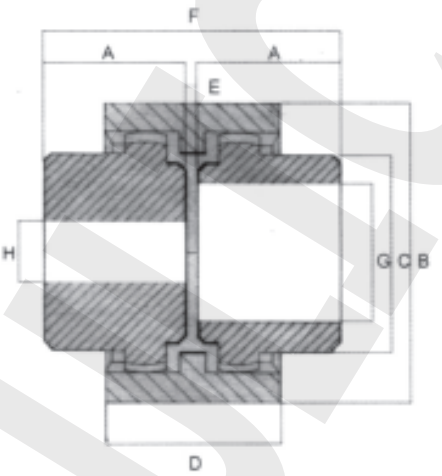
BK3 Steel
PN 315 bar



Block body : steel
Ball : steel, hard chromium plated
Ball seals : Delrin
Spindle seals : Perbunan (Buna N) or Viton

Theard (BSPP)	Order Code	Working Pressure Bar
G3/8"	BK3-G3/8"	315
G1/2"	BK3-G1/2"	315
G3/4"	BK3-G3/4"	315
G1"	BK3-G1"	315

DRIVE COUPLINGS

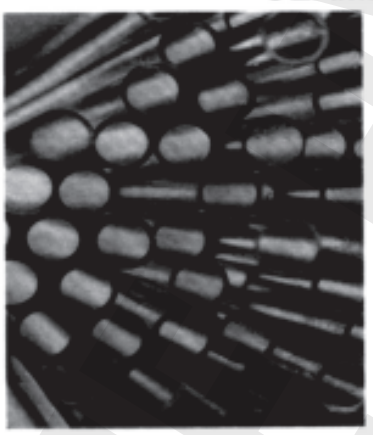


QUALIFICATION

1. Low cost , easy to assemble and no maintenance or lubrication needed.
2. Nylon sleeve with two steel gears drive hubs.
3. Have a crowned tooth form at gears , so will permit axial and angular misalignment.

MODEL	Max Speed R P M	Proper Horse Power	Weight kg.	A MM	B MM	C MM	D MM	E MM	F MM	G		H
										Max Bore	Min Bore	Pilot Bore
SP - 28	5000	1 - 5	1	40	67	44	38	4	84	28	10	10
SP - 42	5000	5 - 10	2	42	87	60	52	4	88	42	10	10
SP - 55	4000	10 - 20	5	60	121	80	64	4	124	55	19	19

SEAMLESS PRECISION STEEL TUBE



Seamless cold drawn St37.4 high quality tube,cleand,annealed,normalised, free of scale,phosphated and oiled.

Outer dia. mm.	Wall thickness mm.	Pressure bar.	max. pressure	Weight kg/m
6	1	389	1680	0.123
8	1	333	1190	0.222
8	1.5	431	1860	0.24
10	1	282	870	0.222
10	1.5	373	1380	0.314
12	1.5	353	1150	0.388
12	2	409	1580	0.493
14	2	403	1340	0.592
15	1.5	282	980	0.499
16	1.5	264	820	0.536
16	2	353	1170	0.691
18	1.5	235	780	0.61
20	2	222	920	0.888
20	2.5	353	1220	1.079
22	2	256	850	0.985
25	2	226	670	1.134
25	2.5	282	920	1.387
25	3	338	1050	1.628
28	2	201	620	1.282
30	3	284	920	1.998
30	4	376	1250	2.565
35	2.5	201	620	2.004
38	4	297	970	3.354
38	5	371	1350	4.069
42	3	201	580	2.885

>Material St37.4
>To DIN 2391, sheet 2 grade C
>Suitable for cold bending and flaring (with use of appropriate tooling)
>Weldable by using recognised welding methods
>Normalised(NBK)
>Annealed,phosphated and oiled
>Supplied with plastic plugs on tube ends

Compulation: The wall thickness is to be computed according to DIN 2413.

Characteristic Values - Steel tube

Yield point 235 N/mm2

Safety factor: 3:1 Approx

All of the **SUNFLEX** ® 8 basic parts:
Available in size: ½", ¾", 1", 1¼", 1½", 2", 2½", 3". 4", 5", 6"
Material of Body: Brass
Aluminum
Stainless Steel (By Investment Cast)

CAM & GROOVE COUPLINGS FOR HOSE & PIPE

(A)

ADAPTOR
Female Thread: NPT, BSP or special thread as demand

(B)

COUPLER
Male Thread: NPT, BSP or special thread as demand

(C)

HOSE SHANK COUPLER
Be attched directly to uncoupled hose with any type clamps or bands

(D)

COUPLER
Female Thread: NPT, BSP or special thread as demand

(E)

HOSE SHANK ADAPTOR
Be attched directly to uncoupled hose with any type clamps or bands

(F)

ADAPTOR
Male Thread: NPT, BSP or special thread as demand

(DC)

DUST CAP
For adaptor type "A, E, F"

(DP)

DUST PLUG
For Coupler "B, C, D"

CAM ARM: BRASS, STAINLESS STEEL
PIN: STAINLESS STEEL

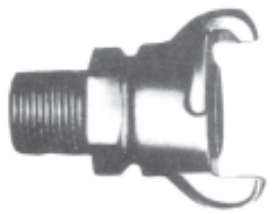
GASKET

Buna N: Buna N is standard. It is generally recommended for petroleum derivates, neutral or slightly acidic salt solutions, alcohols, ethers, glycols, fats, oils, and greases. This compound should give good service from -40°F to +250°F.

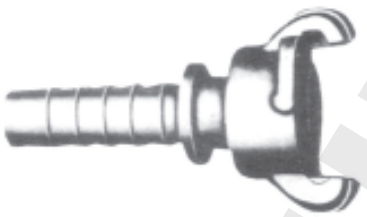
Neoprene: Recommended for alkaline and acid salt solutions and aldehydes such as formaldehyde. For food service. White neoprene is also available. Temperature recommended -40°F to +250°F.

TWO LUG UNIVERSIAL CROWFOOT HOSE COUPLINGS (FOR AIR HOSE)

TWO SEALS IN ONE MAKE COUPLING AN EASY TASK



MALE THREAD END
Size From 1/4" - 2"



HOSE END
Size From 1/4 " - 2"

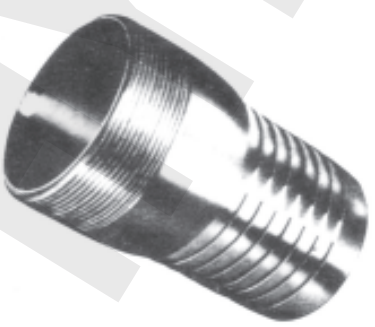
FEMALE THREAD END
Size From 1/4" - 2 "

THREE - WAY CONNECTION

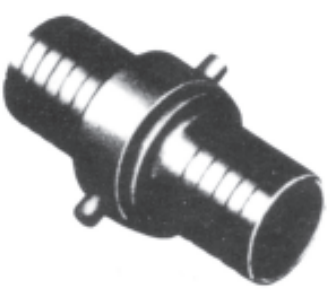
MALE PIPE(N.P.T.)STEM
Size From 1/2" - 4"

HOSE STEM WITH WING NUT & FEMALE SPUD
Size From 1/2 " - 4"

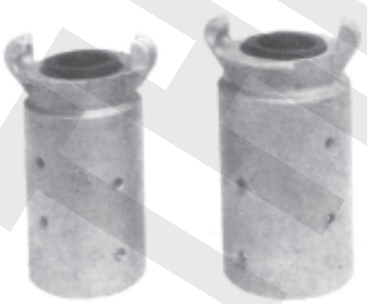
HOSE MENDERS
Steel, Plated
Size From 1/2" - 8 "



COMBINATION HOSE SHANK NIPPLES
Steel, Plated Or Plain
Size From 1/2" - 10 "

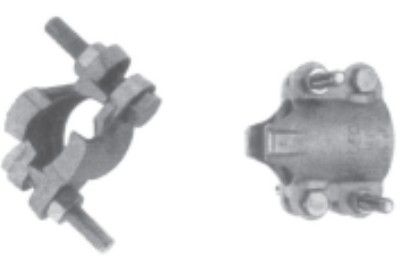


SUCTION HOSE COUPLING
Brass Hose Shank, Aluminum Hose Shank With Brass Pin Lug Swivel
Size From 1/2" - 6"



HOSE COUPLINGS (FOR SANDBLAST HOSE)
Brass, Aluminum
Size From 3/4" - 2"

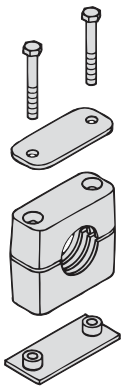
DOUBLE BOLT CLAMP
Size From 1/2" - 12"



HOSE CLAMP WITH SAFETY CLAW
Size From 1/2" - 4"

acc. to **DIN 3015, Part 1**

Order Code

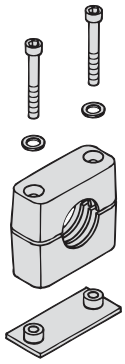


SP * **,* xxx DP-AS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Single Weld Plate
1 x Clamp Body (2 halves)
1 x Cover Plate
2 x Hexagon Head Bolt DIN 931/933

Order Code

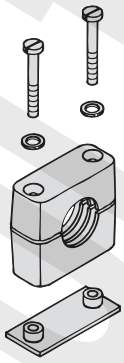


SP * **,* xxx IS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Single Weld Plate
1 x Clamp Body (2 halves)
2 x Socket Cap Screw DIN 912 with washer

Order Code

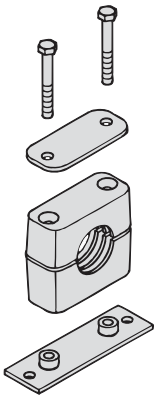


SP * **,* xxx LI

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Single Weld Plate
1 x Clamp Body (2 halves)
2 x Slotted Head Screw DIN 84 with washer

Order Code

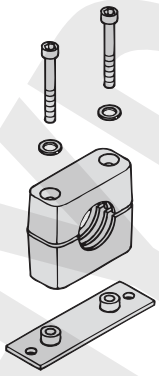


SPV * **,* xxx DP-AS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Elongated Weld Plate
1 x Clamp Body (2 halves)
1 x Cover Plate
2 x Hexagon Head Bolt DIN 931/933

Order Code

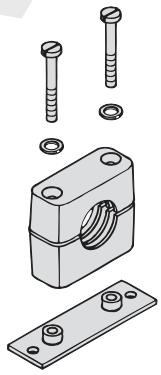


SPV * **,* xxx IS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Elongated Weld Plate
1 x Clamp Body (2 halves)
2 x Socket Cap Screw DIN 912 with washer

Order Code

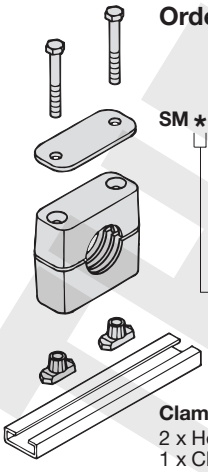


SPV * **,* xxx LI

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
1 x Elongated Weld Plate
1 x Clamp Body (2 halves)
2 x Slotted Head Screw DIN 84 with washer

Order Code

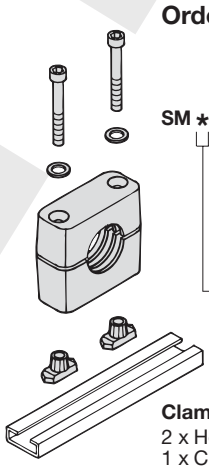


SM * **,* xxx DP-AS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
2 x Hexagon Rail Nut
1 x Clamp Body (2 halves)
1 x Cover Plate
2 x Hexagon Head Bolt DIN 931/933

Order Code

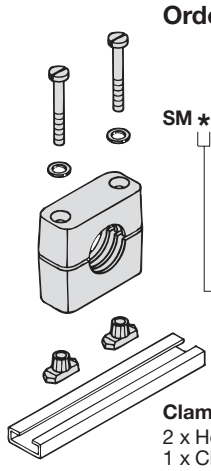


SM * **,* xxx IS

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
2 x Hexagon Rail Nut
1 x Clamp Body (2 halves)
2 x Socket Cap Screw DIN 912 with washer

Order Code



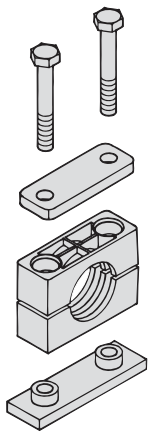
SM * **,* xxx LI

- Material and design of clamp body
- Pipe-O.D.
- STAUFF Group

Clamp consisting of:
2 x Hexagon Rail Nut
1 x Clamp Body (2 halves)
2 x Slotted Head Screw DIN 84 with washer

acc. to **DIN 3015, Part 2**

Order Code

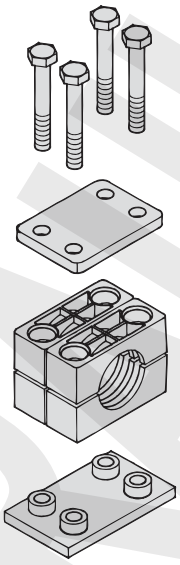


SPAL ** *,* xxx DPAL-AS**

- xxx → Material and design of clamp body
- *,* → Pipe-O.D.
- ** → STAUFF Group

Clamp consisting of:
1 x Weld Plate for Single Clamp
1 x Clamp Body
(2 halves)
1 x Cover Plate for Single Clamp
2 x Hexagon Head Bolt
DIN 931/933

Order Code

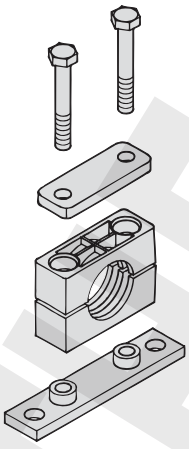


SPAS ** *,* xxx DPAS-AS**

- xxx → Material and design of clamp body
- *,* → Pipe-O.D.
- ** → STAUFF Group

Clamp consisting of:
1 x Weld Plate for Double Clamp
2 x Clamp Body
(2 halves)
1 x Cover Plate for Double Clamp
4 x Hexagon Head Bolt
DIN 931/933

Order Code

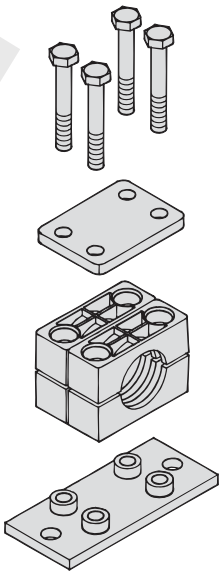


SPAL/DÜB ** *,* xxx DPAL-AS**

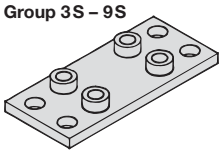
- xxx → Material and design of clamp body
- *,* → Pipe-O.D.
- ** → STAUFF Group

Clamp consisting of:
1 x Elongated Weld Plate for Single Clamp
1 x Clamp Body
(2 halves)
1 x Cover Plate for Single Clamp
2 x Hexagon Head Bolt
DIN 931/933

Order Code



Group 3S – 9S



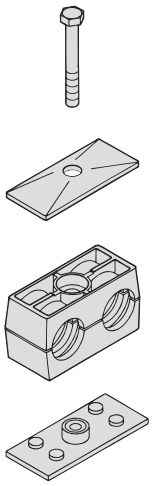
Group 10S – 12S

SPAS/DÜB ** *,* xxx DPAS-AS**

- xxx → Material and design of clamp body
- *,* → Pipe-O.D.
- ** → STAUFF Group

Clamp consisting of:
1 x Elongated Weld Plate for Double Clamp
2 x Clamp Body
(2 halves)
1 x Cover Plate for Double Clamp
4 x Hexagon Head Bolt
DIN 931/933

acc. to **DIN 3015, Part 3**

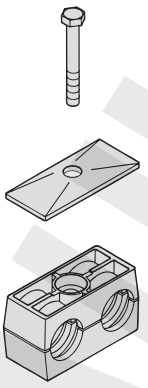


Order Code

SP ✱ ✱✱,✱/✱✱,✱ xxx GD-AS

- Material and design of clamp body
- Pipe-O.D. 2
- Pipe-O.D. 1
- STAUFF Group

Clamp consisting of:
1 x Single Weld Plate
1 x Clamp Body (2 halves)
1 x Cover Plate
1 x Hexagon Head Bolt DIN 931/933

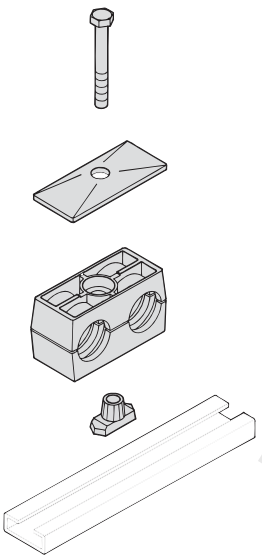


Order Code

✱ ✱✱,✱/✱✱,✱ xxx GD-AS

- Material and design of clamp body
- Pipe-O.D. 2
- Pipe-O.D. 1
- STAUFF Group

Clamp consisting of:
1 x Clamp Body (2 halves)
1 x Cover Plate
1 x Hexagon Head Bolt DIN 931/933

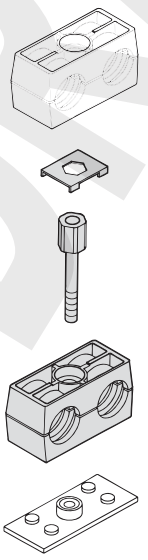


Order Code

SM ✱ ✱✱,✱/✱✱,✱ xxx GD-AS

- Material and design of clamp body
- Pipe-O.D. 2
- Pipe-O.D. 1
- STAUFF Group

Clamp consisting of:
1 x Hexagon Rail Nut
1 x Clamp Body (2 halves)
1 x Cover Plate
1 x Hexagon Head Bolt DIN 931/933



Order Code

✱ ✱✱,✱/✱✱,✱ xxx SI-AF

- Material and design of clamp body
- Pipe-O.D. 2
- Pipe-O.D. 1
- STAUFF Group

Clamp consisting of:
1 x Clamp Body (2 halves)
1 x Stacking Bolt
1 x Safety Locking Plate

Information

Items are supplied non-assembled.

E·MC®

Pneumatic Cylinder

3 Points positioning and precisely machined head caps and pistons done by imported 3-D CNC machine, fundamentally solved tradtional pneumatic cylinder working problems of climbing and quivering, which makes E · MC pneumatic cylinder enjoys very dependable and stable excellent quality. As one of the most professional manufacturer in China, E · MC has widest pneumatic cylinder category and quality is among the best. With over 25 years experining in designing all kinds of pneumatic cylinders, we developed and provided a lot of customized cylinders to many famous companies in the world, which makes E · MC quality satisfied accepted widly. E · MC R&D team always devote to study and creation for pneumatic cylinder, we'll develop more and more cylinders and push the pneumatic cylinder industry forward together with you.

TBC/XBC Series Standard Cylinder & PHC Hydro Pneumatic Cylinder

TBC/XBC Series Standard Cylinder

TBC 63x100

XBC 50x50

TDC 63x125

TAC 63x125-50

TBC 63x125-TC

How to Order?

T -- B C -- 50x50 -- S -- [ ] -- [ ]

- T: Tie-Rod Standard Cylinder; X: X-Type Mickey Mouse Cylinder
- B: Standard Cylinder; D: Double-shaft; A: Double-shaft and adjustable stroke type; S: Swivelling Type
- Bore x Stroke: 32~200mm; 0~2000mm
- Blank: Without Magnet; S: Magnet
- Mounting type: Blank: Basic type; TLB: Foot Mounting; TFA/FB: Front Rear Plate Mounting; TCA: Single Trunnion Mounting; TCB: Double Trunnion Mounting; TTC: Centre Trunnion Mounting; TTC-M: Centre Trunnion with Mounting; TCR: Double Trunnion with Hinge Mounting
- Rod end fitting type: Blank: Basic type; TY: Y fitting; TI: I fitting; TF: Floating fitting; TB: Bearing fitting

Order example:

* T series cylinder, Standard type, 32mm bore, 50mm stroke, with magnet, Model: TBC 32X50-S
* X series cylinder, double shaft with adjustable stroke 20mm, 40mm bore, 200mm stroke, Model: XAC 40X200-20

Specifications

Bore Size(mm)	32	40	50	63	80	100	125	160	200
Acting type	Double Acting								
Working medium	Clean Air (25 μ filteration)								
Mounting type	TFA TFB TCA TCB TLB TTC TTC–M TCR								
Rod end fitting type	VY VI VF VB								
Range of working pressure (Bar)	1–9.0								
Guaranteed pressure (Bar)	13.5								

Bore Size(mm)	32	40	50	63	80	100	125	160	200
Working temperature (℃)	–5 ~ 70								
Speed range (mm/s)	50–800								
Cushion type	Adjustable Cushion								
Cushion stroke (mm)	24				32				
Port Size	G1/8	G1/4		G3/8		G1/2		G 3/4	

SD Series Compact Cylinder

SD 20x15-N

SD 50x10

How to Order?

SD -- [ ] -- 20x50 -- S -- [ ]

- SD: Asian SDA type
- Blank: Double acting type; SA: Single acting spring extend; SB: Single acting spring return
- Bore x Stroke: 12-100mm; 0-150mm
- Blank: No magnet; S: With Magnet
- Blank: Female thread on piston rod end; M: Male thread on piston rod end; N: No thread on piston rod end

Order example:

* SD type compact cylinder, basic type, 40mm bore, 75mm storke, female thread on piston rod end, Modle: SD 40x75
* SD type compact cylinder, single acting spring extend type, 12mm bore, 30mm stroke, with magnet, male thread on piston rod end, Modle: SDSA 12x30-SM

Specifications

Bore Size(mm)		12	16	20	25	32	40	50	63	80	100
Acting type		Double Acting									
		Single acting: With spring return / With spring extent									
Working medium		Clean air (25 μ filteration)									
Working pressure(Bar)	Double acting	1–9									
	Single acting	2–9						—			
Max. working pressure (Bar)		13.5									
Working temperature (℃)		–5~70									
Speed range (mm/s)	Double acting	30–500						30–350		30–250	
	Single acting	100–500									
Cushion type		Fixed cushion									
Port Size (mm)		M5x0.8				G 1/8		G 1/4		G 3/8	

IAS Series Mini Cylinder & RAL/RAS Series Mini Cylinder

IAS Series Mini Cylinder

How to Order?

IAS 25x50-S

I A S -- [ ] -- 25x50 -- S -- [ ]

- I: According to ISO6432 and CETOP RP52P standard
- A: Standard cylinder
  - D: Double–shaft type
  - J: Double–shaft, adjustable stroke type
  - SA: Single acting spring extend
  - SB: Single acting spring return
  - AC: Adjustable cushion
- S: Stainless steel barrel
- Blank: Swiveling tail
  - U: Flat tail
  - CM: Round tail
- Bore x Stroke
  - 12–25mm
  - 0–1000mm
- Blank: No magnet
  - S: With Magnet
- Mounting type:
  - Blank: Basic type
  - ILB type:Foot Mounting
  - IFA: Flange Mounting
  - ISDB: Trunion bracket Mounting

Order example:

* I Series Cylinder Stainless Steel Barrel, 12mm bore, 50mm storke, Model: IAS 12X50
* I Series Cylinder Stainless Steel Barrel, Adjustable cushion, 25mm bore, 70mm stroke, with magnet, Model: IACS 25X70-S

Specifications

Bore Size(mm)	12	16	20	25
Acting type	Double Acting / Single Acting			
Working medium	Clean Air (25 μ filteration)			
Mounting type	IFA ISDB ILB			
Working pressure (Bar)	1–9.0			
Max. working pressure (Bar)	13.5			
Working temperature (℃)	0–80 (dry air–20)			
Speed range (mm/s)	10–1000			
Cushion type	16mm–25mm are with adjustable cushion, 12mm no cushion			
Material	Stainless steel barrel			
Port Size	M5 x 0.8		G 1/8	

RAL/RAS Series Mini Cylinder

How to Order?

R -- A -- L -- [ ] -- 40x50 -- S -- [ ]

- R: Round barrel cylinder mini type
- L: Aluminium barrel
  - S: Stainless steel barrel
- A: Standard double acting type
  - D: Double-shaft type
  - J: Double-shaft, adjustable stroke type
  - SA: Single acting spring extend
  - SB: Single acting spring return
  - AC: Adjustable cushion type
- Blank: Swivelling tail
  - U: Flat tail
  - CM: Round tail
- Bore x Stroke
  - 16-40mm
  - 0-1000mm
- Blank: No magnet
  - S: Magnet
- Mounting type
  - Blank: Basic type
  - RLB type: Foot Mounting
  - RFA: Flange Mounting
  - RSDB: Trunnion bracket Mounting

RAL 20x100

RAL-U 20x80

RJL 32x40

RACS 20x75

RAS 25x75

Order example:

* R series cylinder with aluminium barrel, Standard type, 16mm bore, 50mm storke, Model: RAL 16X50
* R series cylinder with stainless steel barrel, adjustable cushion type, 20mm bore, 80mm stroke, with magnet, Model: RACS 20x80-S

Specifications

Bore Size(mm)	16	20	25	32	40
Acting Type	Double Acting				
Working Medium	Clean Air (25 μ filteration)				
Mounting type	RLB RFA RSDB				
Range of working pressure (Bar)	1–9.0				
Guaranteed pressure (Bar)	13.5				

Bore Size(mm)		16	20	25	32	40
Working temperature (℃)		–5~70				
Speed range (mm/s)		50–800				
Cushion type	Standard Type	Anti–bump cushion				
	Cushion Type	–	Adjustable Cushion			
Port Size		M5 x 0.8	G 1/8			

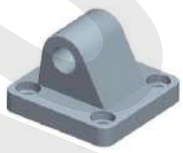
Cylinder Mounting Accessories

Model:

VLB–32	TLB–32
VLB–40	TLB–40
VLB–50	TLB–50
VLB–63	TLB–63
VLB–80	TLB–80
VLB–100	LTB–100
VLB–125	
VLB–160	
VLB–200	

Model:

VFA/VFB–32	TFA/TFB–32
VFA/VFB–40	TFA/TFB–40
VFA/VFB–50	TFA/TFB–50
VFA/VFB–63	TFA/TFB–63
VFA/VFB–80	TFA/TFB–80
VFA/VFB–100	TFA/TFB–100
VFA/VFB–125	
VFA/VFB–160	
VFA/VFB–200	



Model:

VCA–32	TCA–32
VCA–40	TCA–40
VCA–50	TCA–50
VCA–63	TCA–63
VCA–80	TCA–80
VCA–100	TCA–100
VCA–125	
VCA–160	
VCA–200	

Model:

VCB–32	TCB–32
VCB–40	TCB–40
VCB–50	TCB–50
VCB–63	TCB–63
VCB–80	TCB–80
VCB–100	TCB–100
VCB–125	
VCB–160	
VCB–200	

Model:

TTC–32
TTC–40
TTC–50
TTC–63
TTC–80
TTC–100

Model:

TTC–M–32
TTC–M–40
TTC–M–50
TTC–M–63
TTC–M–80
TTC–M–100

Model:

VCR–32
VCR–40
VCR–50
VCR–63
VCR–80
VCR–100
VCR–125
VCR–160
VCR–200

Model:

ILB–16
ILB–20
ILB–25

Model:

ISDB–16
ISDB–20
ISDB–25

Model:

IFA–16
IFA–20
IFA–25

Rod end Fitting

Model:

VY–32
VY–40
VY–50
VY–63
VY–80
VY–100
VY–125
VY–160
VY–200

TY–32
TY–40
TY–50
TY–63
TY–80
TY–100

Model:

VYC–32
VYC–40
VYC–50
VYC–63
VYC–80
VYC–100

Model:

VI–32
VI–40
VI–50
VI–63
VI–80
VI–100
VI–125
VI–160
VI–200

TI–32
TI–40
TI–50
TI–63
TI–80
TI–100

Model:

VF–32
VF–40
VF–50
VF–63
VF–80
VF–100
VF–125
VF–160
VF–200

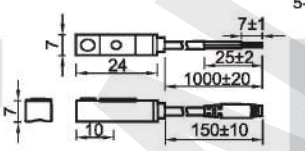
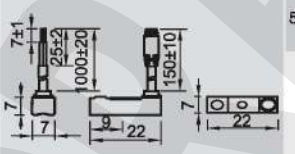
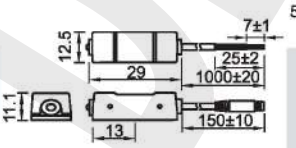
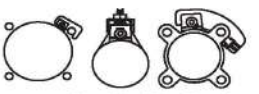
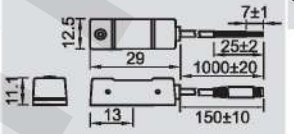
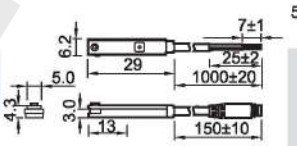
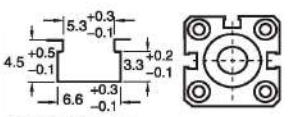
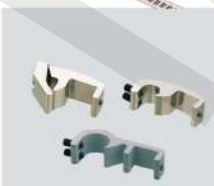
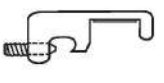
TF–32
TF–40
TF–50
TF–63
TF–80
TF–100

Model:

VB–32
VB–40
VB–50
VB–63
VB–80
VB–100
VB–125
VB–160
VB–200

TB–32
TB–40
TB–50
TB–63
TB–80
TB–100

Magnetic Switch

Photo	Model	Type	Dimensions	Voltage	Cylinder Type
	HX–03R	Reed Switch		5–240V DC/AC	 For: IAS/IAL/RAS/RAL D6–D63 Cylinder
	HX–03N	NPN		5–30V DC	
	HX–03P	PNP			
	HX–15R	Reed Switch		5–240V DC/AC	 For: IAS/IAL/RAS/RAL D6–D63 Cylinder
	HX–15N	NPN		5–30V DC	
	HX–15P	PNP			
	HX–20R	Reed Switch		5–240V DC/AC	 For: FXBC/VBC/LBC/TBC/XBC Cylinder
	HX–20N	NPN		5–30V DC	
	HX–20P	PNP			
	HX–21R	Reed Switch		5–240V DC/AC	 For: FXBC/VBC/LBC/TBC/XBC Cylinder
	HX–21N	NPN		5–30V DC	
	HX–21P	PNP			
	HX–31R	Reed Switch		5–240V DC/AC	 For: FVBC Cylinder
	HX–31N	NPN		5–30V DC	
	HX–31P	PNP			
	BK–81 BK–82	BK Series Metal Band	 BK Series	 PBN Series	 PN Series
	PBN–01 PBN–02	PBN Series Metal Band			
	PN	PN Series Metal Band			
	PAC	PAC Series Clamp	 PAC Series	 PM Series	 PI Series
	PM	PM Series Clamp			
	PI	PI Series Clamp			

* M8, M12 Connector available

AC Series Shock Absorber

AC Series Shock Absorber

How to Order?

AC -- 25 -- 25 -- 1 -- [ ]

- AC: Multi Non-Adjustable type; ACD: Double Direction Cushion type
- Outside Diameter
- Stroke
- 1: High Impact Speed; 2: Medium Impact Speed; 3: Low Impact Speed
- Blank: With Cap; N:Without Cap

Order example:

* AC series,High Impact Speed,With Cap, Model: AC2525-1
* ACD series,High Impact Speed,With Cap, Model: ACD2525-1

Specifications

Model	Stroke (mm)	Max.Absorbing Energy Per Cycle (Nm)	Max. Absorb. Energy/ Hour (NM/hr)	Max.Effcetive Mass (Kg)	Max.IMpaet Speed (m/s)	Working Temperature (°C)
AC-0806-1	6	2	7200	0.5	2.0	-10~+85
AC-0806-2	6	2	7200	2.0	1.0	-10~+85
AC-0806-3	6	2	7200	6.0	0.5	-10~+85
AC-1005-1	5	3	10800	1	3.0	-10~+85
AC-1005-2	5	3	10800	3	1.5	-10~+85
AC-1005-3	5	3	10800	7	0.8	-10~+85
AC-1008-1	8	4	14400	2	3.0	-10~+85
AC-1008-2	8	4	14400	4	1.5	-10~+85
AC-1008-3	8	4	14400	9	0.8	-10~+85
AC-1210-1	10	5	18000	5	3.0	-10~+85
AC-1210-2	10	5	18000	10	1.5	-10~+85
AC-1210-3	10	5	18000	30	0.8	-10~+85
AC-1412-1	12	15	36000	8	3.0	-10~+85
AC-1412-2	12	15	36000	50	1.5	-10~+85
AC-1412-3	12	15	36000	100	0.8	-10~+85
AC-1416-1	16	20	40000	10	3.0	-10~+85
AC-1416-2	16	20	40000	70	1.5	-10~+85
AC-1416-3	16	20	40000	150	0.8	-10~+85
AC-1420-1	20	25	48000	12	3.0	-10~+85
AC-1420-2	20	25	48000	80	1.5	-10~+85
AC-1420-3	20	25	48000	160	0.8	-10~+85
AC-2020-1	20	40	48000	30	3.5	-10~+85
AC-2020-2	20	40	48000	200	2.0	-10~+85
AC-2020-3	20	40	48000	700	1.0	-10~+85
AC-2030-1	30	50	54000	30	3.5	-10~+85
AC-2030-2	30	50	54000	200	2.0	-10~+85
AC-2030-3	30	50	54000	700	1.0	-10~+85
AC-2050-1	50	60	66000	60	3.5	-10~+85
AC-2050-2	50	60	66000	400	2.0	-10~+85
AC-2050-3	50	60	66000	1200	1.0	-10~+85
ACD-2030-1	30	45	54000	40	3.5	-10~+85
ACD-2030-2	30	45	54000	300	2.0	-10~+85
ACD-2030-3	30	45	54000	900	1.0	-10~+85
ACD-2035-1	35	52	62000	40	3.5	-10~+85
ACD-2035-2	35	52	62000	200	2.0	-10~+85
ACD-2035-3	35	52	62000	650	1.0	-10~+85
AC-2525-1	25	80	60000	200	4.0	-10~+85
AC-2525-2	25	80	60000	800	2.5	-10~+85
AC-2525-3	25	80	60000	1500	1.0	-10~+85
AC-2540-1	40	120	84000	300	4.0	-10~+85
AC-2540-2	40	120	84000	1200	2.5	-10~+85
AC-2540-3	40	120	84000	2000	1.0	-10~+85
AC-2550-1	50	98	98000	15	4.0	-10~+85
AC-2550-2	50	98	98000	40	2.5	-10~+85
AC-2550-3	50	98	98000	160	1.0	-10~+85
AC-2580-1	80	150	127500	20	4.0	-10~+85
AC-2580-2	80	150	127500	50	2.5	-10~+85
AC-2580-3	80	150	127500	200	1.0	-10~+85
AC-3660-1	60	250	125000	400	4.0	-10~+85
AC-3660-2	60	250	125000	1500	2.5	-10~+85
AC-3660-3	60	250	125000	2400	1.0	-10~+85

AD Series Shock Absorber

AD Series Shock Absorber

How to Order?

AD -- 25 -- 25 -- 1 -- [ ]

- AD: Adjustable Model
- Outside Diameter
- Stroke
- 1: High Impact Speed
  2: Medium Impact Speed
  3: Low Impact Speed
- Blank: With Cap
  N:Without Cap

Order example:
* AD series,High Impact Speed,With Cap, Model: AD2525–1
* AD series,High Impact Speed,Without Cap, Model: AD2525–1N

Specifications

Model	Stroke (mm)	Max.Absorbing Energy Per Cycle (Nm)	Max. Absorb. Energy/ Hour (NM/hr)	Max.Effcetive Mass (Kg)	Max.IMpact Speed (m/s)	Working Temperature (°C)
AD–1410–N/1410	10	20	24000	80	3.2	–10–+85
AD–1415–N/1415	15	22	26400	120	3.2	–10–+85
AD–2016N/2016	16	25	32000	200	3.6	–10–+85
AD–2050–N/2050	25	39	39000	312	3.6	–10–+85
AD–2525–N/2525	25	85	51000	400	3.6	–10–+85
AD–2530–N/2530	30	95	57000	480	3.6	–10–+85
AD–2540	40	100	84000	700	3.6	–10–+85
AD–2550	50	98	98000	720	4.2	–10–+85
AD–2580	80	150	275000	800	4.2	–10–+85
AD–3825	25	150	90000	1400	3.2	–10–+85
AD–3850	50	300	108000	1400	3.2	–10–+85
AD–4225	25	250	130000	3000	3.6	–10–+85
AD–4250	50	500	155000	4000	4.8	–10–+85
AD–4275	75	750	187500	6000	4.8	–10–+85
AD–64050	50	12000	1560000	12727	1.6	–10–+85
AD–64100	100	24000	1920000	18181	1.6	–10–+85
AD–64150	150	36000	2520000	23636	1.6	–10–+85

HR Series Speed Controls

How to Order?

HR -- 15

- HR Series
- Max. Stroke
  15: 15mm
  30: 30mm
  60: 60mm
  80: 80mm
  100: 100mm

Order example:
* HR series,Max.Stroke:15mm, Model: HR15

Specifications

Model	A	B	Maximum Stroke (mm)	Working Temperature (°C)	Maximum Load (Kgf)
HR15	151	138	15	–10–85	550
HR30	203	172	30	–10–85	550
HR60	280	219	60	–10–85	550
HR80	336	256	80	–10–85	550
HR100	390	290	100	–10–85	550

E·MC®

Solenoid Valve

Cleaning burrs with most advantaged electrolysis technology makes inner surface finishing arrive at very high level, and Japanese seals act as another big support for long life cycles of E · MC valves. 64 valve bodies are machined simultaneously in completely computer controlled CNC machine, coils are tested with 20,000 valts experiment condition, and armatures are well provided by 3-D CNC machine imported from Japan, all these makes E · MC valves top in China.

V Series Solenoid & Air Control Valve & M Series Solenoid Valve

How to Order?

V -- 2 -- 2 1 -- 1 -- E2 -- 06 -- [ ] -- [ ]

- V: V series solenoid valve
- 2: 2 port; 3: 3 port
- 2: 2 position
- 1: 1/8" Valve Body; 2: 1/4" Valve Body; 3: 3/8" Valve Body; 4: 1/2" Valve Body; Blank: Other size valve body
- 1: Single Control; 2: Double Control
- Voltage: E1: AC110V; E2: AC220V; E3: AC380V; E4: DC24V; E5: DC12V; E6: AC36V; E7: AC24V; E8: DC110V; E9: DC48V; E10: DC36V
- Port size: M5: M5; 06: 1/8"; 08: 1/4"; 10: 3/8"; 15: 1/2"
- Coil type: Blank: DIN type; F: Flying leads; A: Air Control
- Blank: Normal Close; H: Normal Open

New
Low power
High flowrate
High frequency
Long lifetime
5/2 way valve

型号：
CN1V251-06
CN2V251-08
CN3V251-10
CN4V251-15

Order example:

* V series, 2 port, 2 position,other size valve body, single Control, AC110V, 1/8" port size,DIN coil,Model: V221E1-06
* V series, 3 port, 2 position, other size valve body, single Control, AC110V, 1/8" port size, flying leads coil, Model:V321E1-06

V Series Solenoid Valve (2/2,3/2)

Model:
V221-06
V221-08

New

Model:
VP321-06

Model:
V321-M5
V321-06

Model:
V3211-M5
V3211-06

Model:
V3221-06
V3221-08
V3231-08
V3231-10
V3241-10
V3241-15

Model:
V3212-M5
V3212-06

Model:
V3222-06
V3222-08
V3232-06
V3232-10
V3242-10
V3242-15

Model:
V3211-M5H
V3211-06H

Model:
V3221-06H
V3221-08H
V3231-08H
V3231-10H

Model:
V3241-10H
V3241-15H

V Series Air Control Valve (3/2)

Model:
V3211-M5A
V3211-06A
V3221-06A
V3221-08A
V3231-08A
V3231-10A
V3241-10A
V3241-15A

Model:
V3212-M5A
V3212-06A
V3222-06A
V3222-08A
V3232-08A
V3232-10A
V3242-10A
V3242-15A

Manifold
V321-NF
(N=1,2,3.....14)
V322-NF
(N=1,2,3.....14)
V323-NF
(N=1,2,3.....14)
V324-NF
(N=1,2,3.....14)

M Series Solenoid Valve

New
Low power
High frequency
3/2 way mini valve

Model:
M2P32-M5-10U

Model:
M2F10-M5

Model:
M2PX10-M5

Model:
M2P10-M5

Model:
M2P15-M5

Model:
M2F15-M5

V Series Solenoid Valve (5/2, 5/3) & V Series Air Control Valve (5/2, 5/3)

How to Order?

V -- 5 -- 2 -- 1 -- 1 -- E2 -- 06 -- [ ] -- [ ]

- V: V series solenoid valve
- 5: 5 port
- 2: 2 position; 3: 3 position
- 1: 1/8" Valve Body; 2: 1/4" Valve Body; 3: 3/8" Valve Body; 4: 1/2" Valve Body
- 1: Single Control; 2: Double Control
- Voltage: E1: AC110V; E2: AC220V; E3: AC380V; E4: DC24V; E5: DC12V; E6: AC36V; E7: AC24V; E8: DC110V; E9: DC48V; E10: DC36V
- Port size: M5: M5; 06: 1/8"; 08: 1/4"; 10: 3/8"; 15: 1/2"
- Coil type: Blank: DIN type; F: Flying leads; A: Air Control
- Only for V53 Series: C: Center Close; P: Center Pressure; E: Center Exhaust

New
Low power
High flowrate
High frequency
Long lifetime
5/2 way valve

型号:
CN1V251-06
CN2V251-08
CN3V251-10
CN4V251-15

Order example:

* V series, 5 port, 2 position, single control, 1/8" valve body, AC110V, 1/8" port size,DIN coil,Model: V5211E1-06
* V series, 5 port, 2 position, double control, 1/8" valve body, AC220V, 1/8" port size,flying Leads coil,Model: V5212E2-06F
* V series, 5 port, 3 position, double control, 1/8" valve body, DC24V, 1/8" port size,DIN coil,center close,Model: V5312E4-06C

5 Port 2 Position Valve

Model:
V5211-M5
V5211-06

Model:
V5221-06
V5221-08
V5231-08
V5231-10

Model:
V5241-10
V5241-15

Model:
V5212-M5
V5212-06

Model:
V5222-06
V5222-08
V5232-08
V5232-10

Model:
V5242-10
V5242-15

Model:
V5211-M5A
V5211-06A
V5221-06A
V5221-08A
V5231-08A
V5231-10A

Model:
V5241-10A
V5241-15A

Model:
V5212-M5A
V5212-06A
V5222-06A
V5222-08A
V5232-08A
V5232-10A

Model:
V5242-10A
V5242-15A

5 Port 3 Position Valve

Model:
V5312-M5AC
V5312-06AC
V5312-M5AP
V5312-06AP
V5312-M5AE
V5312-06AE

Model:
V5312-M5C
V5312-06C
V5312-M5P
V5312-06P
V5312-M5E
V5312-06E

Model:
V5322-06C V5322-06E
V5322-08C V5322-08E
V5332-08C V5332-08E
V5332-10C V5332-10E
V5322-06P
V5322-08P
V5332-08P
V5332-10P

Model:
V5342-10C
V5342-10P
V5342-10E
V5342-15C
V5342-15P
V5342-15E

Model:
V5322-06AC V5322-06AP V5322-06AE
V5322-08AC V5322-08AP V5322-08AE
V5332-08AC V5332-08AP V5332-08AE
V5332-10AC V5332-10AP V5332-10AE

Model:
V5342-10AC
V5342-10AP
V5342-10AE
V5342-15AC
V5342-15AP
V5342-15AE

Manifold
V521-NF(N=1,2,3.....14)
V522-NF(N=1,2,3.....14)
V523-NF(N=1,2,3.....14)
V524-NF(N=1,2,3.....14)

V Series NAMUR Valve (3/2, 5/2)

How to Order?

V -- 5 -- 2 -- 1 -- 1 -- [E2] -- 06 -- [ ] -- M

- **V**: V series solenoid valve
- **5**: 5 port
- **2**: 2 position; 3: 3 position
- **1**: 1/8" Valve Body; 2: 1/4" Valve Body; 3: 3/8" Valve Body; 4: 1/2" Valve Body; 5: 5/8" Valve Body
- **1**: 1: Single Control; 2: Double Control
- **E2**: Voltage
  - E1: AC110V
  - E2: AC220V
  - E3: AC380V
  - E4: DC24V
  - E5: DC12V
  - E6: AC36V
  - E7: AC24V
  - E8: DC110V
  - E9: DC48V
  - E10: DC36V
- **06**: Port size
  - M5: M5
  - 06: 1/8"
  - 08: 1/4"
  - 10: 3/8"
  - 15: 1/2"
- **[ ]**: Coil type
  - Blank: DIN type
  - F: Flying leads
  - A: Air Control
- **M**: NAMUR Valve

Order example:

* V series, 5 port, 2 position, single control, 1/8" valve body, AC110V, 1/8" port size,DIN coil,Model: V5211E1-06M
* V series, 5 port, 2 position, double control, 1/8" valve body, AC220V, 1/8" port size,flying leads coil,Model: V5212E2-06FM

Namur Valve

★ ISO Standard Namur Valve

Model:

V5211-M5M
V5211-06M

Model:

V5221-06M
V5221-08M
V5231-06M★
V5231-08M★
V5231-10M
V5241-15M
V5251-10M★
V5251-15M★

Model:

V5212-M5M
V5212-06M

Model:

V5222-06M
V5222-08M
V5232-06M★
V5232-08M★
V5232-10M
V5242-15M
V5252-10M★
V5252-15M★

Model:

V3211-M5M
V3211-06M

Model:

V3221-06M
V3221-08M
V3231-06M★
V3231-08M★
V3231-10M
V3241-15M
V3251-10M★
V3251-15M★

Model:

V3211-M5AM
V3211-06AM
V3221-06AM
V3221-08AM
V3231-06AM★
V3231-08AM★
V3231-10AM
V3241-15AM
V3251-10AM★
V3251-15AM★

Model:

V5211-M5AM
V5211-06AM
V5221-06AM
V5221-08AM
V5231-06AM★
V5231-08AM★
V5231-10AM
V5241-15AM
V5251-10AM★
V5251-15AM★

Model:

V5212-M5AM
V5212-06AM
V5222-06AM
V5222-08AM
V5232-06AM★
V5232-08AM★
V5232-10AM
V5242-15AM
V5252-10AM★
V5252-15AM★

Model:

V5312-M5AMP		
V5312-06AMP	V5332-06AMP★	V5342-15AMP
V5312-06AMC	V5332-08AMP★	V5342-15AMC
V5312-06AME	V5332-06AMC★	V5342-15AME
V5322-06AMP	V5332-08AMC★	V5352-10AMP★
V5322-06AMC	V5332-06AME★	V5352-10AMC★
V5322-06AME	V5332-08AME★	V5352-10AME★
V5322-08AMP	V5332-10AMP	V5352-15AMP★
V5322-08AMC	V5332-10AMC	V5352-15AMC★
V5322-08AME	V5332-10AME	V5352-15AME★

Model:

V5312-M5MP		
V5312-06MP	V5332-06MP★	V5342-15MP
V5312-06MC	V5332-08MP★	V5342-15MC
V5312-06ME	V5332-06MC★	V5342-15ME
V5322-06MP	V5332-08MC★	V5352-10MP★
V5322-06MC	V5332-06ME★	V5352-10MC★
V5322-06ME	V5332-08ME★	V5352-10ME★
V5322-08MP	V5332-10MP	V5352-15MP★
V5322-08MC	V5332-10MC	V5352-15MC★
V5322-08ME	V5332-10ME	V5352-15ME★

S Series Solenoid Valve (5/2, 5/3)

How to Order?

S -- 5 -- 2 -- 2 -- 1 -- E2 -- 08 -- F

- S: According to SMC VF series
- 5: 5 Port
- 2: 2 position; 3: 3 position
- 2: 1/4" valve body; 3: 3/8" valve body
- 1: Single Control; 2: Double Control
- Voltage: E1 AC110V; E2 AC220V; E4 DC24V; E5 DC12V
- Thread Size: 06: 1/8"; 08: 1/4"; 10: 3/8"
- A: Air control; F: Flying leads; D: DIN connector; DL: DIN connector with LED; C: Center Close; P: Center Pressure; E: Center Exhaust

order example:

* S series, 5 Port, 2 position, 1/4" body, single control with flying leads, AC220V, 1/4" thread size, Model: S5221E2-08F
* S series, 5 Port, 2 position, 3/8" body, double control, 3/8" thread size, air control, Model: S5232-10A

Model:
S5221-08F
S5231-10F

Model:
S5221-08D
S5231-10D

Model:
S5221-08DL
S5231-10DL

Model:
S5222-08F
S5232-10F

Model:
S5222-08D
S5232-10D

Model:
S5222-08DL
S5232-10DL

Model:
S5322-08FC
S5322-08FE
S5322-08FP
S5332-10FC
S5332-10FE
S5332-10FP

Model:
S5322-08DC
S5322-08DE
S5322-08DP
S5332-10DC
S5332-10DE
S5332-10DP

Model:
S5322-08DLC
S5322-08DLE
S5322-08DLP
S5332-10DLC
S5332-10DLE
S5332-10DLP

Model:
S5221-08A
S5231-10A

Model:
S5222-08A
S5232-10A

Manifold
S522-NF
(N=1,2,3,.....14)
S523-NF
(N=1,2,3,.....14)

Mechanical Valve

M221 Series

Type: 2/2 Port Size: 1/8" Working Pressure: 0–8Bar Working Temperature: –5~80°C

M221–S1

M221–S2

M221–S3

M221–S4

M221–S5

M221–S6

M221–S7

MJ322 Series

Type: 3/2 Port Size: 1/4" Working Pressure: 0–8Bar Working Temperature: –5~80°C

MJ322–S1

MJ322–S2

MJ322–S3

MJ322–S4

MJ322–S5

MJ322–S6

M322 Series

Type: 3/2 Port Size: 1/4" Working Pressure: 0–8Bar Working Temperature: –5~80°C

M322–S1

M322–S2

M322–S3

M322–S4

M322–S5

M322–S6

M322–S7

M522 Series

Type: 5/2 Port Size: 1/4" Working Pressure: 0–8Bar Working Temperature: –5~80°C

M522–S1

M522–S2

M522–S3

M522–S4

M522–S5

M522–S6

M522–S7

Hand Pull Valve

Working Pressure: 0–8Bar Working Temperature: –5~80°C

Model:
L321–06 1/8"
L322–08 1/4"
L323–10 3/8"
L324–15 1/2"
Type: 3/2

Model:
L521–06 1/8"
L522–08 1/4"
L523–10 3/8"
L524–15 1/2"
Type: 5/2

Flow Control Valve

Working Pressure: 0–8Bar Working Temperature: –5~80°C

Model:
RE–01 1/8"
RE–02 1/4"
RE–03 3/8"
RE–04 1/2"

Model:
BRE–01 1/8"
BRE–02 1/4"
BRE–03 3/8"
BRE–04 1/2"

Hand Push Valve

Working Pressure: 0–8Bar Working Temperature: –5~80°C

Model:
H321–06 1/8"
H322–08 1/4"
H323–10 3/8"
H324–15 1/2"
Type:3/2

Model:
H521–06 1/8"
H522–08 1/4"
H523–10 3/8"
H524–15 1/2"
Type: 5/2

Model:
H521–06S 1/8"
H522–08S 1/4"
H523–10S 3/8"
H524–15S 1/2"
Type: 5/2 Spring return

Model:
H531–06S 1/8"
H532–08S 1/4"
H533–10S 3/8"
H534–15S 1/2
Type: 5/3 Centre close spring return

Model:
H531–06C 1/8"
H532–08C 1/4"
H533–10C 3/8"
H534–15C 1/2"
Type: 5/3 Centre close hand push valve

Foot Valve

Port Size: 1/4" Working Pressure: 0–8Bar Working Temperature: –5~80°C

Model:
F322–08
Type:3/2

Model:
F422–08
Type: 5/2

Model:
F322–08N
Type: 3/2

Model:
F522–08
Type: 5/2

Model:
F522–08L
Type:5/2
with Lock

Model:
F522C–08L
Type:5/2
with Lock
and Cover

Model:
F522C–08
Type:5/2
with Cover

New
Big Size

Model:
F522C–08LB
Type:5/2 with
Lock and
Cover

Rotary Valve

Type: 4/3 Working Pressure: 0–8Bar Working Temperature: –5~80°C

Model:
M432–08
1/4"

Model:
U432–08
1/4"

Model:
R432–08 1/4"
R432–10 3/8"
R432–15 1/2"

Ceramic
Seal

Model:
MR432–08 1/4"
MR432–10 3/8"
MR432–15 1/2"

Shuttle Valve

Working Pressure: 1.5–10Bar Working Temperature: –5~60°C

Model:
ES–06 1/8"
ES–08 1/4"
ES–10 3/8"
ES–15 1/2"
ES–20 3/4"
ES–25 1"

Quick Exhaust Valve

* Square type available

Model:
KKP–06 1/8"
KKP–08 1/4"
KKP–10 3/8"
KKP–15 1/2"
KKP–20 3/4"
KKP–25 1"

One Way Valve

Model:
EA–06 1/8"
EA–08 1/4"
EA–10 3/8"
EA–15 1/2"
EA–20 3/4"
EA–25 1"

Slide Valve

Model:
YHS–06F/M 1/8"
YHS–08F/M 1/4"
YHS–10F/M 3/8"
YHS–15F/M 1/2"
YHS–20F/M 3/4"
YHS–25F/M 1"

Pressure increase Valve

New

Model:
VAP–06 1/8"
VAP–08 1/4"
VAP–10 3/8"
VAP–15 1/2"

E·MC®

Two Port Two Position Soleniod Valve

Over 25 years sufficient experience in designing and manufacturing makes E · MC a very professional 2/2, 3/2 solenoid valves manufacturer. We have a wide range of solenoid valves designed in different structures supporting for different pressure, temperature, medium, dimensiona, condition…… widly used in many area of the industry control systems. This makes E · MC a very trusted and depended supplier for solenoid valves for many customers home and abroad. Among so many kinds of E · MC solenoid valves, you'll find it's always easy for you to choose the most suitable solenoid valve for your system as everything is very clear in the catalog.
Anyway, for anything you're not so clear about the solenoid valves on the E · MC pneumatics & hydraulics catalog, just contact us pneumatic@emc-machinery.com

E•MC®

UD/UW Series Solenoid Valve

UD Series 2/2 Solenoid Valve (Normal Close)

UD

How to Order?

UD – [ ] – 10 – E1

- UD Series / UDH: Higth Pressure
- Blank: NBR / V: VITON
- Port Size: 06: 1/8" / 08: 1/4" / 10: 3/8"
- E1: AC110V / E2: AC220V / E3: AC380V / E4: DC24V / E5: DC12V / E6: AC36 / E7: AC24V

Order example:

* UD series, 2 position, 2 port, NBR seal, 1/4" port size,orifice 2.5mm,voltage AC220V, Model: UDE2-08
* UDH Higth Pressure series, 2 position, 2 port, NBR seal, 1/4" port size, orifice 1.2mm, voltage AC220V,Model: UDHE2-08

Specifications

* With Voltage AC220V

Model	UD-06E2	UD-08E2	UD-10E2	UDH-06E2	UDH-08E2	UDH-10E2
Working Medium	Air, Water, Oil, Gas					
Acting Type	Direct acting					
Type	Normal Close Type					
Orifice(mm)	2.5		4	1.2		2
Cv Value	0.23		0.6	0.05		0.15
Port Size	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"
Fluid Viscosity	20 CST (Below)					

Model	UD-06E2	UD-08E2	UD-10E2	UDH-06E2	UDH-08E2	UDH-10E2
Working Pressure(Bar)	0-7			0-20		
Max. Pressure Resistance(Bar)	10			35		
Working Temperature Range(℃)	-5~80					
Voltage Range	±10%					
Material of Valve Body	Brass					
Seal Material	NBR, VITON (optional)					

UW Series 2/2 Solenoid Valve (Normal Close)

How to Order?

UW -- [ ] -- 06 -- E1

- UW Series
- Blank: NBR / V: VITON
- Port Size: 06: 1/8" / 08: 1/4" / 10: 3/8" / 15: 1/2" / 20: 3/4" / 25: 1" / 35: 1-1/4" / 40: 1-1/2" / 50: 2"
- Voltage: E1: AC110V / E2: AC220V / E3: AC380V / E4: DC24V / E5: DC12V / E6: AC36V / E7: AC24V

Order example:

* UW series, 2 position, 2 port, NBR seal, 1/2" port size,voltage AC220V, Model: UW-15E2

UW

Specifications

* With Voltage AC220V

Model	UW-10E2	UW-15E2	UW-20E2	UW-25E2	UW-35E2	UW-40E2	UW-50E2
Orifice(mm)	16	16	20	25	35	40	50
Cv Value	4.8	4.8	7.6	12	24	29	48
Port Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Fluid Viscosity	20 CST Below						
Working Pressure(Bar)	Water : 0~5 , Air : 0~7 , Oil : 0~5 , Gas : 0~7						
Max. Pressure Resistance(Bar)	11						
Working Temperature Range(℃)	-5~80						
Voltage Range	±10%						
Valve Body	Brass						
Seal Material	NBR, VITON (optional)						

E•MC®

EMCF/EMCYF Series Solenoid Valve

EMCF Series 2/2 Pulse Valve (Normal Close)

EMCF-25

EMCF-50

How to Order?

EMCF -- 25 -- E1

- EMCF Series
- Orifice
  - 25: 25mm
  - 40: 40mm
  - 50: 50mm
  - 65: 65mm
  - 76: 76mm
- Voltage
  - E1: AC110V
  - E2: AC220V
  - E4: DC24V

Order example:
* EMCF series,Orifice:25mm,Voltage: AC220V,Model: EMCF-25E2

Specifications

* With Voltage AC220V

Model	EMCF-25E2	EMCF-40E2	EMCF-50E2	EMCF-65E2	EMCF-76E2
Working Pressure(Bar)	4-8				
Working Temperature(°C)	-10~55				
Relative Humidity	<85%				
Working Medium	clean air				
Voltage	AC220V/DC24V				
Diaphragm Life	over one 1,000,000 cycles				
Orifice	ϕ25	ϕ40	ϕ50	ϕ65	ϕ76
Port Size	1"	1-1/2"	2"	2-1/2"	3"

EMCYF Series 2/2 Pulse Valve (Normal Close)

How to Order?

EMCYF -- 50 -- E1

- EMCYF Series
- Orifice
  - 50: 50mm
  - 62: 62mm
  - 76: 76mm
- Voltage
  - E1: AC110V
  - E2: AC220V
  - E4: DC24V

Order example:
* EMCYF series,Orifice:50mm,Voltage: AC220V,Model: EMCYF-50E2

EMCYF-50

Specifications

* With Voltage AC220V

Model	EMCYF-50E2	EMCYF-62E2	EMCYF-76E2
Working Pressure(Bar)	2~6		
Working Temperature(°C)	-10~55		
Relative Humidity	<85%		
Working Medium	clean air		
Voltage	AV220V/DC24V		
Diaphragm Life	over one million cycles		
Orifice	ϕ50	ϕ62	ϕ76
Port Size	ϕ65	ϕ80	ϕ99

E·MC®

Air Source Treatment Unit

E · MC always controls very strictly every detail in all steps of the processing, from mould making to die-casting technique,from high precision maching to orderly assembling, from intelligent test control to overall quality control.....High quality with alegance apperance makes it very dependable to choose E · MC FRLs.

EI Series Air Source Treatment Unit

* Working Press.: 0.5–10Bar
* Max. Press.: 15Bar
* Working Temp.: 5–60°C
* Filter Precision: 25 μ (5 μ is optional)

How to Order?

EI -- C -- 30 -- 00 -- 03 -- ☐

- EI: EI Series F.R.L With Air gauge Inside the body
- C: C: Filter+Regulator+Lubricator; W: F+R; F: Filter; L: Lubricator; R: Regulator
- 30: 20: 2000 Body Size; 30: 3000 Body Size; 40: 4000 Body Size; 50: 5000 Body Size
- 00: 00: Three Units(F+R+L); 10: Two Units(F.R+L)
- 03: Port Size 01: 1/8"; 02: 1/4"; 03: 3/8"; 04: 1/2"; 06: 3/4"; 10: 1"
- ☐: Blank: Manual Drain Type; D: Auto Drain Type

Order example:

* EI series,F+R+L,3000 Body Size, Port Size: 3/8",Manual Drain Type,Model: EIC3000–03
* EI series,F.R+L,3000 Body Size, Port Size: 3/8",Auto Drain Type,Model: EIC3010–03D
* EI series,F+R,3000 Body Size, Port Size: 3/8",Manual Drain Type,Model: EIW3000–03
* EI series,Filter,3000 Body Size, Port Size: 3/8",Auto Drain Type,Model: EIF3000–03D
* EI series,Lubricator,3000 Body Size, Port Size: 3/8",Model: EIL3000–03
* EI series,Regulator,3000 Body Size, Port Size: 3/8",Model: EIR3000–03

New

Model no.	EPSH–02
Working medium	Air
Max pressure	0.7Mpa
Set pressure range(off)	0.1–0.4Mpa
Lagging	0.08Mpa
Working temperature	–5–60° C

Model:
EIC2000–01 EIC2000–02

Model:
EIC3000–02 EIC3000–03
EIC4000–03 EIC4000–04
EIC5000–06 EIC5000–10

Model:
EIC2010–01 EIC2010–02

Model:
EIC3010–02 EIC3010–03
EIC4010–03 EIC4010–04
EIC5010–06 EIC5010–10

Model:
EIW2000–01 EIW2000–02

Model:
EIW3000–02 EIW3000–03
EIW4000–03 EIW4000–04
EIW5000–06 EIW5000–10

Model:
EIL2000–01 EIL2000–02

Model:
EIL3000–02 EIL3000–03
EIL4000–03 EIL4000–04
EIL5000–06 EIL5000–10

Model:
EIF2000–01 EIF2000–02

Model:
EIF3000–02 EIF3000–03
EIF4000–03 EIF4000–04
EIF5000–06 EIF5000–10

Model:
EIR2000–01 EIR2000–02
EIR3000–02 EIR3000–03
EIR4000–03 EIR4000–04
EIR5000–06 EIR5000–10

FE Series Air Source Treatment Unit

How to Order?

FE -- C -- [ ] -- D -- [ ] -- [ ] -- [ ] -- DI -- [ ] -- [ ]

FE Series

C: C: F.R+L; CS: F.R+L lock type; W: F+R; F: Filter; L: Lubricator; WS: F+R lock type; R: Regulator; RS: Regulator lock type

Connection Size: M5: M5; M7: M7; QS4: Push-in fitting QS4; QS6: Push-in fitting QS6; 1/8: G1/8"; 1/4: G1/4"; 3/8: G3/8"; 1/2: G1/2"; 3/4: G3/4"; 1: G1"

D: D: Metal design

Pressure regulate range: Blank: 0.5–12 bar; 7: 0.5–7 bar

Precision: Blank: 40 μm; 5M: 5 μm

Blank: Blank: With presssure gauge; O: Without presssure gauge

DI: Directly actuate pressure regulator with integrated return flow function (FEC and MAXI size only)

Blank: MICRO: Body dimension 25 mm; MINI: Body dimension 40 mm; MIDI: Body dimension 55 mm; MAXI: Body dimension 66 mm (All without connecting plates)

Blank: Blank: Manual drain; H: semi–autodrain; A: Full– autodrain

Order example:

* FE series, F+R+L, M5 Connection size, Metal design, 5 μm precision, MICRO type with semi autodrain, Model: FEC–M5–D–5M–MICRO–H
* FE series, Regulator, G1/8" Connection size, Metal design, MINI type, Model: FER–1/8–D–MINI
* FE series, Lubricator, G1/4" Connection size, Metal design, MINI type, Model: FEL–1/4–D–MINI

Model:

FEC–1/8–D–MINI
FEC–1/4–D–MINI
FEC–3/8–D–MINI
FEC–1/4–D–MIDI
FEC–3/8–D–MIDI
FEC–1/2–D–MIDI
FEC–3/4–D–MIDI
FEC–1/2–D–MAXI
FEC–3/4–D–MAXI
FEC–1–D–MAXI

Model:

FEW–1/8–D–MINI
FEW–1/4–D–MINI
FEW–3/8–D–MINI
FEW–1/4–D–MIDI
FEW–3/8–D–MIDI
FEW–1/2–D–MIDI
FEW–3/4–D–MIDI
FEW–1/2–D–MAXI
FEW–3/4–D–MAXI
FEW–1–D–MAXI

Model:

FER–1/8–D–MINI
FER–1/4–D–MINI
FER–3/8–D–MINI
FER–1/4–D–MIDI
FER–3/8–D–MIDI
FER–1/2–D–MIDI
FER–3/4–D–MIDI
FER–1/2–D–MAXI
FER–3/4–D–MAXI
FER–1–D–MAXI

Model:

FEL–1/8–D–MINI
FEL–1/4–D–MINI
FEL–3/8–D–MINI
FEL–1/4–D–MIDI
FEL–3/8–D–MIDI
FEL–1/2–D–MIDI
FEL–3/4–D–MIDI
FEL–1/2–D–MAXI
FEL–3/4–D–MAXI
FEL–1–D–MAXI

Model:

FEF–1/8–D–MINI
FEF–1/4–D–MINI
FEF–3/8–D–MINI
FEF–1/4–D–MIDI
FEF–3/8–D–MIDI
FEF–1/2–D–MIDI
FEF–3/4–D–MIDI
FEF–1/2–D–MAXI
FEF–3/4–D–MAXI
FEF–1–D–MAXI

New

How to Order?

FTYH Serises High Pressure Regulator

FTYH -- [ ]

FTYH Serises High Pressure Regulator

Port size: 08: G1/4; 10: G3/8; 15: G1/2; 20: G3/4; 25: G1

Model:

FTYH–08 FTYH–10
FTYH–15 FTYH–20
FTYH–25

FRH Serises High Pressure Filte&Regulator

FRH -- [ ]

FRH Serises High Pressure Regulator

Port size: 08: G1/4; 10: G3/8; 15: G1/2; 20: G3/4; 25: G1

Model:

FRH–08 FRH–10
FRH–15 FRH–20
FRH–25

FSLH Serises High Pressure Filter

FSLH -- [ ]

FSLH Serises High Pressure Regulator

Port size: 08: G1/4; 10: G3/8; 15: G1/2; 20: G3/4; 25: G1

Model:

FSLH–08 FSLH–10
FSLH–15 FSLH–20
FSLH–25

E Series Air Source Treatment Unit

* Working Press.: 0.5–10Bar
* Max. Press.: 15Bar
* Working Temp.: 5–60°C
* Filter Precision: 25 μ (5 μ is optional)

How to Order?

E -- C -- 30 -- 00 -- 03 -- [ ]

E Series

C: Filter+Regulator+Lubricator
W: F+R
F: Filter
L: Lubricator
R: Regulator

10: 1000 Body Size
20: 2000 Body Size
30: 3000 Body Size
40: 4000 Body Size
50: 5000 Body Size

00: Three Units(F+R+L)
10: Two Units (F.R+L)

Port Size
M5: M5
01: 1/8"
02: 1/4"
03: 3/8"
04: 1/2"
06: 3/4"
10: 1"

Blank: Manual Drain Type
D: Auto Drain Type
Available Only For 2000 or Above

New

Model no.	EFSH-02
Working medium	Air
Max pressure	0.7Mpa
Set pressure range(off)	0.1–0.4Mpa
Lagging	0.08Mpa
Working temperature	-5–60° C

Order example:

* E series,F+R+L,3000 Body Size, Port Size: 3/8",Manual Drain Type,Model: EC3000-03
* E series,F.R+L,3000 Body Size, Port Size: 3/8",Auto Drain Type,Model: EC3000-03D
* E series,F+R,3000 Body Size, Port Size: 3/8",Manual Drain Type,Model: EW3000-03
* E series,Filter,3000 Body Size, Port Size: 3/8",Auto Drain Type,Model: EF3000-03D
* E series,Lubricator,3000 Body Size, Port Size: 3/8",Model: EL3000-03
* E series,Regulator,3000 Body Size, Port Size: 3/8",Model: ER3000-03

Model:
EC1000-M5 EC2000-01
EC2000-02

Model:
EC2500-02 EC2500-03
EC3000-02 EC3000-03
EC4000-03 EC4000-04
EC4000-06

Model:
EC5000-06
EC5000-10

Model:
EC1010-M5 EC2010-01
EC2010-02

Model:
EC3010-02 EC3010-03
EC4010-03 EC4010-04
EC4010-06

Model:
EC5010-06
EC5010-10

Model:
EW1000-M5 EW2000-01
EW2000-02

Model:
EW3000-02 EW3000-03
EW4000-03 EW4000-04
EW4000-06

Model:
EW5000-06
EW5000-10

Model:
EL1000-M5
EL2000-01
EL2000-02

Model:
EL3000-02
EL3000-03
EL4000-03
EL4000-04
EL4000-06

Model:
EL5000-06
EL5000-10

Model:
ER1000-M5 ER2000-01
ER2000-02 ER2500-02
ER2500-03 ER3000-02
ER3000-03 ER4000-03
ER4000-04 ER4000-06
ER5000-06 ER5000-10

Model:
EF1000-M5
EF2000-01
EF2000-02

Model:
EF3000-02
EF3000-03
EF4000-03
EF4000-04
EF4000-06

Model:
EF3000-02D
EF3000-03D
EF4000-03D
EF4000-04D
EF4000-06D

Model:
EF5000-06
EF5000-10

Bracket

T-Type Spacer

Model	Applicable Model
Y21-01/Y21-02	EC2000
Y31-01/Y31-02	EC3000
Y41-02/Y41-03	EC4000
Y61-03/Y61-04	EC5000

Spacer with L-Type Bracket

Model	Applicable Model
Y10L	EC1000
Y20L	EC2000
Y30L	EC2500/3000
Y40L	EC4000
Y50L	EC4000-06
Y60L	EC5000

L-Type Bracket

Model	Applicable Model
B110L	EC1000
B210L	EC2000
B310L	EC2500/3000
B410L	EC4000
B510L	EC4000-06
B610L	EC5000

Spacer with T-Type Bracket

Model	Applicable Model
Y10T	EC1010
Y20T	EC2010
Y30T	EC3010
Y40T	EC4010
Y50T	EC4010-06
Y60T	EC5010

T-Type Bracket

Model	Applicable Model
B110T	EC1010
B210T	EC2010
B310T	EC2510/3010
B410T	EC4010
B510T	EC4010-06
B610T	EC5010

20-Type Bracket

Model	Applicable Model
B120	ER1000 EW1000
B220	ER2000/2500 EW2000/2500
B320	ER3000 EW3000
B420	ER4000/5000 EW4000/5000

40-Type Bracket

Model	Applicable Model
B240	EF2000 EL2000
B340	EF3000 EL3000
B440	EF4000 EL4000
B540	EF4000-06 EL4000-06
B640	EF5000 EL5000

Auto Drain

Model
HAD402 1/2"

Auto Drain

HED402-02
HED402-03
HED402-04

Auto Drain Element

ZDFS-06
ZDFS-08

High Precision Regulator

EHP3000-02
EHP3000-03

New

Big size regulator

QTY-06
QTY-08
QTY-10
QTY-15
QTY-20
QTY-25
QTY-40

Big size filter

QSL-06
QSL-08
QSL-10
QSL-15
QSL-20
QSL-25
QSL-40

Big size lubricator

QIU-06
QIU-08
QIU-10
QIU-15
QIU-20
QIU-25
QIU-40

AE/BE Series Air Source Treatment Unit

How to Order?

AE -- C -- 2000 -- [ ]

- **AE**: AE:Smaller body size, without bowl guard; BE: Bigger body size, with bowl guard
- **C**: Filter+Regulator+Lubricator
- **2000**: Port size 1500: 1/8" 2000: 1/4" 3000: 3/8" 4000: 1/2"
- **[ ]**: Blank: Manual drain type; D: Auto drain type (Longer water cup for AE series)

* Working Press.: 0.5–10Bar
* Max. Press.: 15Bar
* Working Temp.: 5–60°C
* Filter Precision: 40 μ (25 μ ,5 μ is optional)

Order example:
* AE series,filter+regulator+lubricator,port size: 1/4",model: AEC2000

Model:
AEC2000 400L/min

Model:
BEC2000 3500L/min
BEC3000 3500L/min
BEC4000 3500L/min

Model:
AEFC2000 400L/min

Model:
BEFC2000 2500L/min
BEFC3000 2500L/min
BEFC4000 2500L/min

Model:
AEFR2000 500L/min

Model:
BEFR2000 3000L/min
BEFR3000 3000L/min
BEFR4000 3000L/min

Model:
AEF2000 700L/min

Model:
BEF2000 3500L/min
BEF3000 3500L/min
BEF4000 3500L/min

Model:
AEL2000 700L/min

Model:
BEL2000 4500L/min
BEL3000 4500L/min
BEL4000 4500L/min

Model:
AER2000 500L/min
BER2000 4500L/min
BER3000 4500L/min
BER4000 4500L/min

EA/E804/EN Series Air Source Treatment Unit / Muffler

EA Series Air Source Treatment Unit

* Working Pressure: 0.5–17Bar

Model:
EAF3000–02

Model:
EAL3000–02

Model:
EAFC3000–02

E804 Series Air Source Treatment Unit

* Working Pressure: 0.5–8Bar

Model:
EL804–02
EL804–03
EL804–04

Model:
EFR804–02
EFR804–03
EFR804–04

Model:
EFRL804–02
EFRL804–03
EFRL804–04

EN Series Air Source Treatment Unit

* Working Pressure: 0.5–8Bar

Model:
ENFC2000–02

Model:
ENW2000–02

Model:
ENF2000–02

Model:
ENR2000–02

Model:
ENL2000–02

Muffler

* Working Pressure: 0–10Bar

A Type Muffler

Model	Thread Size	S
A–M5	M5	9
A–6A	1/8"	13
A–8A	1/4"	17
A–10A	3/8"	22
A–15A	1/2"	24
A–20A	3/4"	30
A–25A	1"	36
A–32A	1 1/4"	46
A–40A	1 1/2"	52
A–50A	2"	64

AS Type Muffler Steel with Nickle

Model	Thread Size	S
AS–2.5	10–32UNF	8
AS–6	1/8"	11
AS–8	1/4"	14
AS–10	3/8"	17
AS–15	1/2"	22
AS–20	3/4"	27
AS–25	1"	34
AS–32	1–1/4"	43
AS–40	1–1/2"	51

AAS Type S.S mffler

Model	Thread Size	S
AAS–M5	M5	8
AAS–6	1/8"	12
AAS–8	1/4"	15
AAS–10	3/8"	19
AAS–15	1/2"	23
AAS–20	3/4"	30
AAS–25	1"	36

AB Type Muffler

Model	Thread Size	S
AB–6	1/8"	11
AB–8	1/4"	14
AB–10	3/8"	17
AB–15	1/2"	22
AB–20	3/4"	27
AB–25	1"	33
AB–32	1–1/4"	43
AB–40	1–1/2"	51
AB–50	2"	60

AP Type PE Muffler

Model	Thread Size
AP–6	1/8"
AP–8	1/4"
AP–10	3/8"
AP–15	1/2"
AP–20	3/4"
AP–25	1"

SET Type Muffler

Model	Thread Size	S
SET–7	1/8"	8
SET–9.5	1/4"	10
SET–12.5	3/8"	13
SET–15.5	1/2"	15
SET–22	3/4"	19
SET–28	1"	24

V Type Muffler

Model	Thread Size	S
V–M5	M5	8
V–6	1/8"	12
V–8	1/4	15
V–10	3/8"	19
V–15	1/2"	22
V–20	3/4"	30
V–25	1"	36

VF Type Muffler

Model	Thread Size	S
VF–M5	M5	8
VF–6	1/8"	13
VF–8	1/4"	16
VF–10	3/8"	19
VF–15	1/2"	24

VS Type Muffler Steel with Nickle Plated

Model	Thread Size	S
VS–6	1/8"	11
VS–8	1/4"	14
VS–10	3/8"	17
VS–15	1/2"	22
VS–20	3/4"	27
VS–25	1"	33
VS–32	1–1/4"	43
VS–40	1–1/2"	51

Muffler

VSF Type Muffler Steel with Nickle Plated

Model	Thread Size	S
VSF-6	1/8"	14
VSF-8	1/4"	17
VSF-10	3/8"	22
VSF-15	1/2"	27

VD Type Muffler

Model	Thread Size	S
VD-6	1/8"	13
VD-8	1/4"	16
VD-10	3/8"	19
VD-15	1/2"	24
VD-20	3/4"	30
VD-25	1"	36

VDS Type S.S Muffler

Model	Thread Size	S
VDS-M5	M5	8
VDS-6	1/8"	13
VDS-8	1/4"	16
VDS-10	3/8"	19
VDS-15	1/2"	24
VDS-20	3/4"	30
VDS-25	1"	36

VSS Type S.S muffler

Model	Thread Size	S
VSS-M5	M5	8
VSS-6	1/8"	12
VSS-8	1/4"	15
VSS-10	3/8"	19
VSS-15	1/2"	23
VSS-20	3/4"	30
VSS-25	1"	36

VT Type Muffler

Model	Thread Size	L
VT-6	1/8"	12.5
VT-8	1/4"	13.5
VT-10	3/8"	16
VT-15	1/2"	19.6
VT-20	3/4"	23
VT-25	1"	24

Quick Exhaust Muffling Throttle Valve

* Working Pressure: 0-10Bar

SA Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SA-6	1/8"	14
SA-8	1/4"	16
SA-10	3/8"	17
SA-15	1/2"	24
SA-20	3/4"	27
SA-25	1"	34

SB Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SB-6	1/8"	12
SB-8	1/4"	14
SB-10	3/8"	17
SB-15	1/2"	24
SB-20	3/4"	27
SB-25	1"	34

SC Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SC-6	1/8"	13
SC-8	1/4"	14
SC-10	3/8"	17
SC-15	1/2"	22
SC-20	3/4"	27
SC-25	1"	34

SD Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SD-6	1/8"	12
SD-8	1/4"	15
SD-10	3/8"	19
SD-15	1/2"	22
SD-20	3/4"	27
SD-25	1"	34

SK Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SK-6	1/8"	13
SK-8	1/4"	14
SK-10	3/8"	17
SK-15	1/2"	22
SK-20	3/4"	27
SK-25	1"	34

SS Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SSK-6	1/8"	13
SSK-8	1/4"	14
SSK-10	3/8"	17
SSK-15	1/2"	22
SSK-20	3/4"	27
SSK-25	1"	34

SPK Quick Exhaust Muffling Throttle Valve

Model	Thread Size	S
SPK-6	1/8"	10
SPK-8	1/4"	14
SPK-10	3/8"	17
SPK-15	1/2"	24
SPK-20	3/4"	30
SPK-25	1"	36

Plastic Muffler

* Working Pressure: 0-10Bar

SU Type Muffler

Model	Thread Size	Φ
SU-6	1/8"	16
SU-8	1/4"	20
SU-10	3/8"	24
SU-15	1/2"	24
SU-20	3/4"	48
SU-25	1"	48

PSU Type Muffler

Model	Thread Size	Φ
PSU-M5	M5	7
PSU-6	1/8"	13
PSU-8	1/4"	17
PSU-10	3/8"	25
PSU-15	1/2"	25
PSU-20	3/4"	
PSU-25	1"	

PSE Type Muffler

Model	Thread Size	Φ
PSE-M5	M5	7
PSE-6	1/8"	13
PSE-8	1/4"	17
PSE-10	3/8"	25
PSE-15	1/2"	25
PSE-20	3/4"	37
PSE-25	1"	48

EPC

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPC04–M5	EPC06–04	EPC12–02	EPC1/4–01	EPC3/8–04	EPC5/32–1/8"N	EPC1/4–1/4"N	EPC1/2–1/4"N
EPC04–M6	EPC08–01	EPC12–03	EPC1/4–02	EPC1/2–02	EPC5/32–1/4"N	EPC1/4–3/8"N	EPC1/2–3/8"N
EPC04–01	EPC08–02	EPC12–04	EPC1/4–03	EPC1/2–03	EPC3/16–1/8"N	EPC5/16–1/8"N	EPC1/2–1/2"N
EPC04–02	EPC08–03	EPC14–03	EPC5/16–01	EPC1/2–04	EPC3/16–1/4"N	EPC5/16–1/4"N	
EPC06–M5	EPC08–04	EPC14–04	EPC5/16–02		EPC3/16–3/8"N	EPC5/16–3/8"N	
EPC06–M6	EPC10–01	EPC16–03	EPC5/16–03		EPC1/4–1/8"N	EPC3/8–1/8"N	
EPC06–01	EPC10–02	EPC16–04	EPC3/8–01				
EPC06–02	EPC10–03		EPC3/8–02				
EPC06–03	EPC10–04		EPC3/8–03				

EPCF

MODEL[ΦD–T]				
Tube(Metric)–Thread(Rc)		Tube(Inch)–Thread(Rc)	Tube(Inch)–Thread(NPT)	
EPCF04–01	EPCF10–01	EPCF1/4–01	EPCF5/32–1/8"N	EPCF3/8–1/4"N
EPCF04–02	EPCF10–02	EPCF1/4–02	EPCF5/32–1/4"N	EPCF3/8–3/8"N
EPCF06–01	EPCF10–03	EPCF5/16–01	EPCF3/16–1/8"N	EPCF1/2–1/4"N
EPCF06–02	EPCF10–04	EPCF5/16–02	EPCF3/16–1/4"N	EPCF1/2–3/8"N
EPCF06–03	EPCF12–02	EPCF3/8–02	EPCF1/4–1/8"N	
EPCF08–01	EPCF12–03	EPCF3/8–03	EPCF1/4–1/4"N	
EPCF08–02	EPCF12–04		EPCF5/16–1/8"N	
EPCF08–03	EPCF16–03		EPCF5/16–1/4"N	
EPCF08–04	EPCF16–04		EPCF5/16–3/8"N	

EPOC

MODEL[ΦD–T]					
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)	Tube(Inch)–Thread(NPT)	
EPOC04–M5	EPOC08–01	EPOC12–03	EPOC1/4–01	EPOC5/32–1/8"N	EPOC3/8–1/4"N
EPOC04–M6	EPOC08–02	EPOC12–04	EPOC1/4–02	EPOC1/4–1/8"N	EPOC3/8–3/8"N
EPOC04–01	EPOC08–03	EPOC14–03	EPOC5/16–01	EPOC1/4–1/4"N	EPOC3/8–1/2"N
EPOC04–02	EPOC08–04	EPOC14–04	EPOC5/16–02	EPOC5/16–1/8"N	EPOC1/2–1/4"N
EPOC06–M5	EPOC10–01	EPOC16–03	EPOC5/16–03	EPOC5/16–1/4"N	EPOC1/2–3/8"N
EPOC06–M6	EPOC10–02	EPOC16–04	EPOC3/8–02	EPOC5/16–3/8"N	EPOC1/2–1/2"N
EPOC06–01	EPOC10–03		EPOC3/8–03		
EPOC06–02	EPOC10–04		EPOC3/8–04		
EPOC06–03	EPOC12–02				

EPMF

MODEL[ΦD–T]			
Tube(Metric)–Thread(Rc)		Tube(Inch)–Thread(NPT)	
EPMF04–01	EPMF10–01	EPMF5/32–1/8"N	EPMF3/8–3/8"N
EPMF04–02	EPMF10–02	EPMF3/16–1/8"N	EPMF1/2–3/8"N
EPMF06–01	EPMF10–03	EPMF3/16–1/4"N	EPMF1/2–1/2"N
EPMF06–02	EPMF10–04	EPMF1/4–1/8"N	
EPMF06–03	EPMF12–02	EPMF1/4–1/4"N	
EPMF08–01	EPMF12–03	EPMF5/16–1/8"N	
EPMF08–02	EPMF12–04	EPMF5/16–1/4"N	
EPMF08–03	EPMF14–04	EPMF5/16–3/8"N	
EPMF08–04	EPMF16–04	EPMF3/8–1/4"N	

EPL

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPL04–M5	EPL06–04	EPL12–02	EPL1/4–01	EPL3/8–04	EPL5/32–1/8"N	EPL1/4–1/4"N	EPL1/2–1/4"N
EPL04–M6	EPL08–01	EPL12–03	EPL1/4–02	EPL1/2–02	EPL5/32–1/4"N	EPL1/4–3/8"N	EPL1/2–3/8"N
EPL04–01	EPL08–02	EPL12–04	EPL1/4–03	EPL1/2–03	EPL3/16–1/8"N	EPL5/16–1/8"N	EPL1/2–1/2"N
EPL04–02	EPL08–03	EPL14–03	EPL5/16–01	EPL1/2–04	EPL3/16–1/4"N	EPL5/16–1/4"N	
EPL06–M5	EPL08–04	EPL14–04	EPL5/16–02		EPL3/16–3/8"N	EPL5/16–3/8"N	
EPL06–M6	EPL10–01	EPL16–03	EPL5/16–03		EPL1/4–1/8"N	EPL3/8–1/8"N	
EPL06–01	EPL10–02	EPL16–04	EPL3/8–01			EPL3/8–1/4"N	
EPL06–02	EPL10–03		EPL3/8–02			EPL3/8–3/8"N	
EPL06–03	EPL10–04		EPL3/8–03			EPL3/8–1/2"N	

EPLF

MODEL[ΦD–T]				
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(NPT)	
EPLF04–M5	EPLF08–01	EPLF12–03	EPLF5/32–1/8"N	EPLF3/8–3/8"N
EPLF04–M6	EPLF08–02	EPLF12–04	EPLF3/16–1/8"N	EPLF1/2–3/8"N
EPLF04–01	EPLF08–03	EPLF14–03	EPLF3/16–1/4"N	EPLF1/2–1/2"N
EPLF04–02	EPLF08–04	EPLF14–04	EPLF1/4–1/8"N	
EPLF06–M5	EPLF10–01	EPLF16–03	EPLF1/4–1/4"N	
EPLF06–M6	EPLF10–02	EPLF16–04	EPLF5/16–1/8"N	
EPLF06–01	EPLF10–03		EPLF5/16–1/4"N	
EPLF06–02	EPLF10–04		EPLF5/16–3/8"N	
EPLF06–03	EPLF12–02		EPLF3/8–1/4"N	

EPLL

MODEL[ΦD–T]					
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)	Tube(Inch)–Thread(NPT)	
EPLL04–M5	EPLL06–04	EPLL12–02	EPLL1/4–01	EPLL5/32–1/8"N	EPLL5/16–1/4"N
EPLL04–M6	EPLL08–01	EPLL12–03	EPLL1/4–02	EPLL3/16–1/8"N	EPLL5/16–3/8"N
EPLL04–01	EPLL08–02	EPLL12–04	EPLL5/16–02	EPLL3/16–1/4"N	EPLL3/8–1/4"N
EPLL04–02	EPLL08–03	EPLL14–03	EPLL3/8–02	EPLL3/16–3/8"N	EPLL3/8–3/8"N
EPLL06–M5	EPLL08–04	EPLL14–04	EPLL3/8–03	EPLL1/4–1/8"N	EPLL3/8–1/2"N
EPLL06–M6	EPLL10–01	EPLL16–03		EPLL1/4–1/4"N	EPLL1/2–1/4"N
EPLL06–01	EPLL10–02	EPLL16–04		EPLL1/4–3/8"N	EPLL1/2–3/8"N
EPLL06–02	EPLL10–03			EPLL5/16–1/8"N	EPLL1/2–1/2"N
EPLL06–03	EPLL10–04				

EPLH

MODEL[ΦD–T]		
Tube(Metric)–Thread(R)		
EPLH 04–01	EPLH 08–01	EPLH 10–03
EPLH 04–02	EPLH 08–02	EPLH 10–04
EPLH 06–01	EPLH 08–03	EPLH 12–02
EPLH 06–02	EPLH 08–04	EPLH 12–03
EPLH 06–03	EPLH 10–01	EPLH 12–04
EPLH 06–04	EPLH 10–02	

EPB

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPB04–M5	EPB06–04	EPB12–02	EPB1/4–01	EPB3/8–04	EPB5/32–1/8"N	EPB1/4–1/4"N	EPB1/2–1/4"N
EPB04–M6	EPB08–01	EPB12–03	EPB1/4–02	EPB1/2–02	EPB5/32–1/4"N	EPB1/4–3/8"N	EPB1/2–3/8"N
EPB04–01	EPB08–02	EPB12–04	EPB1/4–03	EPB1/2–03	EPB3/16–1/8"N	EPB5/16–1/8"N	EPB1/2–1/2"N
EPB04–02	EPB08–03	EPB14–03	EPB5/16–01	EPB1/2–04	EPB3/16–1/4"N	EPB5/16–1/4"N	
EPB06–M5	EPB08–04	EPB14–04	EPB5/16–02		EPB3/16–3/8"N	EPB5/16–3/8"N	
EPB06–M6	EPB10–01	EPB16–03	EPB5/16–03		EPB1/4–1/8"N	EPB3/8–1/8"N	
EPB06–01	EPB10–02	EPB16–04	EPB3/8–01			EPB3/8–1/4"N	
EPB06–02	EPB10–03		EPB3/8–02			EPB3/8–3/8"N	
EPB06–03	EPB10–04		EPB3/8–03			EPB3/8–1/2"N	

EPBF

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPBF04–M5	EPBF06–04	EPBF12–02	EPBF1/4–01	EPBF3/8–04	EPBF5/32–1/8"N	EPBF1/4–1/4"N	EPBF1/2–1/4"N
EPBF04–M6	EPBF08–01	EPBF12–03	EPBF1/4–02	EPBF1/2–02	EPBF5/32–1/4"N	EPBF1/4–3/8"N	EPBF1/2–3/8"N
EPBF04–01	EPBF08–02	EPBF12–04	EPBF1/4–03	EPBF1/2–03	EPBF3/16–1/8"N	EPBF5/16–1/8"N	EPBF1/2–1/2"N
EPBF04–02	EPBF08–03	EPBF14–03	EPBF5/16–01	EPBF1/2–04	EPBF3/16–1/4"N	EPBF5/16–1/4"N	
EPBF06–M5	EPBF08–04	EPBF14–04	EPBF5/16–02		EPBF3/16–3/8"N	EPBF5/16–3/8"N	
EPBF06–M6	EPBF10–01	EPBF16–03	EPBF5/16–03		EPBF1/4–1/8"N	EPBF3/8–1/8"N	
EPBF06–01	EPBF10–02	EPBF16–04	EPBF3/8–01			EPBF3/8–1/4"N	
EPBF06–02	EPBF10–03		EPBF3/8–02			EPBF3/8–3/8"N	
EPBF06–03	EPBF10–04		EPBF3/8–03			EPBF3/8–1/2"N	

EPD

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPD04–M5	EPD06–04	EPD12–02	EPD1/4–01	EPD3/8–04	EPD5/32–1/8"N	EPD1/4–1/4"N	EPD1/2–1/4"N
EPD04–M6	EPD08–01	EPD12–03	EPD1/4–02	EPD1/2–02	EPD5/32–1/4"N	EPD1/4–3/8"N	EPD1/2–3/8"N
EPD04–01	EPD08–02	EPD12–04	EPD1/4–03	EPD1/2–03	EPD3/16–1/8"N	EPD5/16–1/8"N	EPD1/2–1/2"N
EPD04–02	EPD08–03	EPD14–03	EPD5/16–01	EPD1/2–04	EPD3/16–1/4"N	EPD5/16–1/4"N	
EPD06–M5	EPD08–04	EPD14–04	EPD5/16–02		EPD3/16–3/8"N	EPD5/16–3/8"N	
EPD06–M6	EPD10–01	EPD16–03	EPD5/16–03		EPD1/4–1/8"N	EPD3/8–1/8"N	
EPD06–01	EPD10–02	EPD16–04	EPD3/8–01			EPD3/8–1/4"N	
EPD06–02	EPD10–03		EPD3/8–02			EPD3/8–3/8"N	
EPD06–03	EPD10–04		EPD3/8–03			EPD3/8–1/2"N	

EPWT

MODEL[ΦD–T]							
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)		Tube(Inch)–Thread(NPT)		
EPWT04–M5	EPWT06–04	EPWT12–02	EPWT1/4–01	EPWT3/8–04	EPWT5/32–1/8"N	EPWT1/4–1/4"N	EPWT1/2–1/4"N
EPWT04–M6	EPWT08–01	EPWT12–03	EPWT1/4–02	EPWT1/2–02	EPWT5/32–1/4"N	EPWT1/4–3/8"N	EPWT1/2–3/8"N
EPWT04–01	EPWT08–02	EPWT12–04	EPWT1/4–03	EPWT1/2–03	EPWT3/16–1/8"N	EPWT5/16–1/8"N	EPWT1/2–1/2"N
EPWT04–02	EPWT08–03		EPWT5/16–01	EPWT1/2–04	EPWT3/16–1/4"N	EPWT5/16–1/4"N	
EPWT06–M5	EPWT08–04		EPWT5/16–02		EPWT3/16–3/8"N	EPWT5/16–3/8"N	
EPWT06–M6	EPWT10–01		EPWT5/16–03		EPWT1/4–1/8"N	EPWT3/8–1/8"N	
EPWT06–01	EPWT10–02		EPWT3/8–01			EPWT3/8–1/4"N	
EPWT06–02	EPWT10–03		EPWT3/8–02			EPWT3/8–3/8"N	
EPWT06–03	EPWT10–04		EPWT3/8–03			EPWT3/8–1/2"N	

EPH

MODEL[ΦD–T]					
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)	Tube(Inch)–Thread(NPT)	
EPH04–M5	EPH08–01	EPH12–04	EPH1/4–M5	EPH5/32–1/8"N	EPH5/16–3/8"N
EPH04–M6	EPH08–02		EPH1/4–01	EPH3/16–1/8"N	EPH3/8–1/4"N
EPH04–01	EPH08–03		EPH1/4–02	EPH3/16–1/4"N	EPH3/8–3/8"N
EPH04–02	EPH08–04		EPH5/16–01	EPH1/4–1/8"N	EPH1/2–3/8"N
EPH06–M5	EPH10–02		EPH5/16–02	EPH1/4–1/4"N	EPH1/2–1/2"N
EPH06–M6	EPH10–03		EPH5/16–03	EPH5/16–1/8"N	
EPH06–01	EPH10–04		EPH3/8–02	EPH5/16–1/4"N	
EPH06–02	EPH12–02		EPH3/8–03		
EPH06–03	EPH12–03				

EPHF

MODEL[ΦD–T]					
Tube(Metric)–Thread(R)			Tube(Inch)–Thread(R)	Tube(Inch)–Thread(NPT)	
EPHF04–M5	EPHF08–01	EPHF12–04	EPHF1/4–M5	EPHF5/32–1/8"N	EPHF5/16–3/8"N
EPHF04–M6	EPHF08–02		EPHF1/4–01	EPHF3/16–1/8"N	EPHF3/8–1/4"N
EPHF04–01	EPHF08–03		EPHF1/4–02	EPHF3/16–1/4"N	EPHF3/8–3/8"N
EPHF04–02	EPHF08–04		EPHF5/16–01	EPHF1/4–1/8"N	EPHF1/2–3/8"N
EPHF06–M5	EPHF10–02		EPHF5/16–02	EPHF1/4–1/4"N	EPHF1/2–1/2"N
EPHF06–M6	EPHF10–03		EPHF5/16–03	EPHF5/16–1/8"N	
EPHF06–01	EPHF10–04		EPHF3/8–02	EPHF5/16–1/4"N	
EPHF06–02	EPHF12–02		EPHF3/8–03		
EPHF06–03	EPHF12–03				

EPGJ

MODEL[ΦD1–ΦD2]		
Tube(Metric)–Tube (Metric)	Tube(Metric)–Tube (Inch)	Tube(Inch)–Tube (Inch)
EPGJ06–04	EPGJ08–1/4	EPGJ5/16–5/32
EPGJ08–04	EPGJ10–1/4	EPGJ5/16–1/4
EPGJ08–06	EPGJ10–5/16	
EPGJ10–06	EPGJ12–1/4	
EPGJ10–08	EPGJ12–5/16	
EPGJ12–06		
EPGJ12–08		
EPGJ12–10		

EPU

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPU04	EPU5/32
EPU06	EPU3/16
EPU08	EPU1/4
EPU10	EPU5/16
EPU12	EPU3/8
EPU14	EPU1/2
EPU16	

EPP

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPP 04	EPP 5/32
EPP 06	EPP 5/16
EPP 08	
EPP 10	
EPP 12	
EPP 16	

EPV

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPV04	EPV5/32
EPV06	EPV3/16
EPV08	EPV1/4
EPV10	EPV5/16
EPV12	EPV3/8
EPV14	EPV1/2
EPV16	

EPIJ

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPIJ 04	EPIJ 5/32
EPIJ 06	EPIJ 3/16
EPIJ 08	EPIJ 1/4
EPIJ 10	EPIJ 5/16
EPIJ 12	EPIJ 3/8
EPIJ 16	EPIJ 1/2

EPE

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPE04	EPE5/32
EPE06	EPE3/16
EPE08	EPE1/4
EPE10	EPE5/16
EPE12	EPE3/8
EPE14	EPE1/2
EPE16	

EPLJ

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPLJ04	EPLJ5/32
EPLJ06	EPLJ3/16
EPLJ08	EPLJ1/4
EPLJ10	EPLJ5/16
EPLJ12	EPLJ3/8
	EPLJ1/2

EPY

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPY04	EPY5/32
EPY06	EPY3/16
EPY08	EPY1/4
EPY10	EPY5/16
EPY12	EPY3/8
	EPY1/2

EPYJ

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPYJ04	EPYJ5/32
EPYJ06	EPYJ3/16
EPYJ08	EPYJ1/4
EPYJ10	EPYJ5/16
EPYJ12	EPYJ3/8
	EPYJ1/2

EPM

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPM04	EPM5/32
EPM06	EPM3/16
EPM08	EPM1/4
EPM10	EPM5/16
EPM12	EPM3/8
EPM14	EPM1/2
EPM16	

EPG

MODEL[ΦD1–ΦD2]		
Tube(Metric)		Tube(Inch)
EPG06–04	EPG16–12	EPG3/16–5/32
EPG08–04	EPG16–14	EPG1/4–5/32
EPG08–06		EPG1/4–3/16
EPG10–06		EPG5/16–1/4
EPG10–08		EPG3/8–5/16
EPG12–10		EPG1/2–3/8

EPZA

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPZA 04	EPZA 5–32
EPZA 06	EPZA 3/16
EPZA 08	EPZA 1/4
EPZA 10	EPZA 5/16
EPZA 12	EPZA 3/8
	EPZA 1/2

EPW

MODEL[ΦD1–ΦD2]	
Tube(Metric)	Tube(Inch)
EPW06–04	EPW3/16–5/32
EPW08–06	EPW1/4–5/32
EPW10–08	EPW1/4–3/16
EPW12–10	EPW5/16–1/4
	EPW3/8–5/16
	EPW1/2–3/8

EPEW

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPEW06-04	EPEW1/4-5/32
EPEW08-06	EPEW5/16-1/4
EPEW10-08	EPEW3/8-5/16
EPEW12-10	EPEW1/2-3/8
EPEW16-12	

EPEJ

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPEJ 06-04	EPEJ 1/4-5/32
EPEJ 08-06	EPEJ 5/16-1/4
EPEJ 10-08	EPEJ 3/8-5/16
EPEJ 12-10	EPEJ 1/2-3/8

EPEG

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPEG06-04	EPEG1/4-5/32
EPEG08-06	EPEG5/16-1/4
EPEG10-08	EPEG3/8-5/16
EPEG12-10	EPEG1/2-3/8
EPEG16-12	

EPSJ

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPSJ 06-04	EPSJ 1/4-5/32
EPSJ 08-06	EPSJ 5/16-1/4
EPSJ 10-08	EPSJ 3/8-5/16
EPSJ 12-10	EPSJ 1/2-3/8

EPKG

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPKG 06-04	EPKG 3/16-5/32
EPKG 08-04	EPKG 1/4-5/32
EPKG 08-06	EPKG 5/16-5/32
EPKG 10-06	EPKG 3/16-3/16
EPKG 10-08	EPKG 5/16-1/4
	EPKG 3/8-1/4
	EPKG 3/8-5/16

EPKB

MODEL[ΦD-T]	
Tube(Metric)	Tube(Metric)
EPKB 04-01	EPKB 08-01
EPKB 04-02	EPKB 08-02
EPKB 06-01	EPKB 08-03
EPKB 06-02	
EPKB 06-03	

EPIG

MODEL[ΦD1-ΦD2]
Tube(Metric)
EPIG 06-04
EPIG 08-06
EPIG 10-08
EPIG 12-10

EPKD

MODEL[ΦD1-ΦD2-T]	
Tube(Metric)	Tube(Inch)
EPKD 06-04-1	EPKD 3/16-5/32-N1
EPKD 08-04-2	EPKD 1/4-5/32-N1
EPKD 08-06-2	EPKD 5/16-5/32-N2
EPKD 10-08-3	EPKD 5/16-1/4-N2
	EPKD 3/8-5/16-N3

EPWJ

MODEL[ΦD1-ΦD2]	
Tube(Metric)	Tube(Inch)
EPWJ06-04	EPWJ1/4-5/32
EPWJ08-06	EPWJ5/16-1/4
EPWJ10-08	EPWJ3/8-5/16
EPWJ12-10	EPWJ1/2-3/8

EPK

MODEL[ΦD]	
Tube(Metric)	Tube(Inch)
EPK 04	EPK 5-32
EPK 06	EPK 3/16
EPK 08	EPK 1/4
	EPK 5/16

EPL–C

MODEL[ΦD–T]		
Tube(Metric)		
EPL 03–M3C	EPL 04–M3C	EPL 06–M5C
EPL 03–M5C	EPL 04–M5C	EPL 06–M6C
EPL 03–M6C	EPL 04–M6C	EPL 06–01C
	EPL 04–01C	

EPE–C

MODEL[ΦD]		
Tube(Metric)		
EPE 03C		
EPE 04C		
EPE 06C		

EPLL–C

MODEL[ΦD–T]		
Tube(Metric)		
EPLL 03–M3C	EPLL 04–M3C	EPLL 06–M5C
EPLL 03–M5C	EPLL 04–M5C	EPLL 06–M6C
EPLL 03–M6C	EPLL 04–M6C	EPLL 06–01C
	EPLL 04–01C	

EPY–C

MODEL[ΦD]		
Tube(Metric)		
EPY 03C		
EPY 04C		
EPY 06C		

EPUL–C

MODEL[ΦD]
Tube(Metric)
EPUL 03C
EPUL 04C
EPUL 06C

EPC–G–C

MODEL[ΦD–T]		
Tube(Metric)		
EPC 04– G01C		
EPC 04–G01C		

EPG–C

MODEL[ΦD2–ΦD1]
Tube(Metric)
EPG 04–03C
EPG 06–03C
EPG 06–04C

EPL–G–C

MODEL[ΦD–T]		
Tube(Metric)		
EPL 04–G01C		
EPL 04–G01C		

EPW–C

MODEL[ΦD2–ΦD1]
Tube(Metric)
EPW 04–03C
EPW 06–03C
EPW 06–04C

Stop Fitting / Check Valve

Stop Fitting

ESPC

MODEL[ΦD–T]
Tube(Metric)
ESPC 06–01
ESPC 06–02
ESPC 08–02
ESPC 08–03

ESPL–G

MODEL[ΦD–T]
Tube(Metric)
ESPL 06–G01
ESPL 06–G02
ESPL 08–G01
ESPL 08–G02
ESPL 08–G03

ESPL

MODEL[ΦD–T]
Tube(Metric)
ESPL 06–M5
ESPL 06–01
ESPL 06–02
ESPL 08–01
ESPL 08–02
ESPL 08–03

ESPC–G

MODEL[ΦD–T]
Tube(Metric)
ESPC 06–G01
ESPC 06–G02
ESPC 08–G02
ESPC 08–G03

ESPU

MODEL[ΦD]
Tube(Metric)
ESPU 06
ESPU 08

Check Valve

ECVPF

MODEL[T1–T2]
Tube(Metric)
ECVPF 02–02
ECVPF 03–03

ECVPF–G

MODEL[T1–T2]
Tube(Metric)
ECVPF G02–G02
ECVPF G03–G03

E-ZFC series vacuum filter / E-CV series vacuum ejector / E-ZU series vacuum ejector

E–ZFC series vacuum filter

E–ZFC	--	100	--	04	--	B
ZFC series vacuum filter		Flow rate 100: Max 20L/Min 200: Max 50L/Min 100: Max 20L/Min 200: Max 50L/Min		Tube size 04: 4.0mm 06: 6.0mm 08: 8.0mm		With bracket

E-ZFC

Model
E–ZFC100–04B
E–ZFC100–06B
E–ZFC200–06B
E–ZFC200–08B

E–CV series vacuum ejector

E-CV

Model
E–CV–05–SK
E–CV–10–SK
E–CV–15–SK
E–CV–20–SK

E-CV

Model
E–CV–05
E–CV–10
E–CV–15
E–CV–20

E-CV

Model
E–CV–05–S
E–CV–10–S
E–CV–15–S
E–CV–20–S

E–ZU series vacuum ejector

E–ZU	--	05	--	S
ZU series vacuum ejector		Nozzle OD 05: 0.5mm 07: 0.7mm		Vacuum S: –88Kpa L: –48Kpa

E-ZU

Model
E–ZU–05–S
E–ZU–07–S
E–ZU–05–L
E–ZU–07–L

Quick Coupler / Hydraulic Fitting

Quick Coupler

Meterial: Steel Zinc S.S.

Model	Size
SH–20	1/4" TUBE
SH–30	3/8" TUBE
SH–40	1/2" TUBE
SF–20	1/4PT
SF–30	3/8PT
SF–40	1/2PT
SM–20	1/4PT
SM–30	3/8PT
SM–40	1/2PT
SP–20	8*5" TUBE
SP–30	10*6.5" TUBE
SP–40	12*8" TUBE

Model	Size
PH–20	1/4" TUBE
PH–30	3/8" TUBE
PH–40	1/2" TUBE
PF–20	1/4PT
PF–30	3/8PT
PF–40	1/2PT
PM–20	1/4PT
PM–30	3/8PT
PM–40	1/2PT
PP–20	8*5" TUBE
PP–30	10*6.5" TUBE
PP–40	12*8" TUBE

SMY

1/4PT
3/8PT

SML

1/4PT

SMM

1/4PT

SMV

1/4PT
3/8PT

SMT

1/4PT

SMX

1/4PT

PU/PU Reinforced/PE/NYLON Tube / PU Cutter / Air Gun

PU TUBE

Model:
4x2.5 6x4 8x5 8x6 10x6.5
12x8 14x10 16x12
Type: Roll Type
Length: 200m 100m
Colour:

Type: Spring Type
(With Fitting, Optional)
Length: 15m 12m 9m
7.5m 6m
Colour:

PU Reinforced Tube

Size: 3/8x1/4 1/2x3/8 8x5
10x6.5 11x6 12x8 13x9
13.5x8 13.5x9.5 14x10
14.5x10 15x9 16x10
16x11 18x12 18x13
Operating Pressure: 200Pis
Max. Pressure: 600Pis
Temperature: –20~65°C

PE TUBE

Model: 4x2.5 6x4 8x5 8x6
10x6.5 12x8
Type: Roll Type/Spring Type
Leigth: 200m 100m 50m
35m 30m
Colour:

NYLON Tube

Model:
3x2 4x2.5 5x3 6x4 8x5 8x6
10x7.5 12x8 14x10 16x12
Type: Roll Type
Leigth: 200m 100m 50m 35m
30m
Colour:

PU CUTTER

ECP-01

Air Gun Set

DG-01S

1pc air duster
2pcs end fitting
1 medium nozzle
1 long nozzle

DG-03S

1pc air duster
1pc medium nozzle

DG-05S

ratef rressure:70PSI
max presure:150PSI
1pc tire chuck
1pc air blow gun
1pc 15ft
memory recoil air hose

DG-03S

1pc dual tire chuck
1pc pencil gauge
4pcs 1/4"male plug
2pcs 1/4"female plug
1pc air blow gun
1pc 1/4"quick coupler
2pcs double male
connector
1pc double female
conector
1pc safety nozzle
1pc needle inflation
1pc tapered inflator
1pc bloe gun adaptor

DG-04S

2pcs quick coupler
2pcs female plug
2pcs male plug
1pc double male connector
1pc double female connector
1pc taperred seal tape
1pc air blow gun
1pc tapered nozzle
1pc blow gun adaptor
1pc needle inflator
1pc dual–head tire chuck
1pc air gauge
1pc 25FT memory recoil
air hose

Pressure Switch

Pressure Switch

HEP503	HEP506	HEP506M
HEP110	HEP516	HEP520
HEP530D	HEP530	HEP530M

HEP830 HEP830HM	HEC02
HEP830HLM	

Model		Pressure Range(Bar)		Differential(Bar)		Factory Setting (Bar)		Max. Bellows Press.(Bar)
		Min.	Max.	Min.	Max.			
HEP503		–0.7	3	0.2	1.5	2+0.01	1+0.01	16.5
HEP506		–0.7	6	0.6	4	3+0.01	2+0.01	16.5
HEP506M		–0.7	6	Duplicate Voltage Disparity≤1		3+0.01	Manual Return	16.5
HEP110		1	10	1	3	6+0.01	5+0.01	16.5
HEP516		5	16	1	4	10+0.02	8+0.02	35
HEP520		5	24	2	5	16+0.02	13+0.02	35
HEP530D		5	30	5	10	20+0.02	15+0.02	35
HEP530		8	30	Fixed 3–5		20+0.02	15~17+0.02	35
HEP530M		8	30	Duplicate Voltage Disparity≤4		20+0.02	Maunal Return	35
HEP830	Low Side	–0.7	6	0.6	4	3+0.01	2+0.01	16.5
	High Side	8	30	Fixed 3–5		20+0.02	17.5+0.02	35
	Low Side	–0.7	6	0.6	4	3+0.01	2+0.01	16.5
HEP830HM	High Side	8	30	Duplicate Voltage Disparity≤4		20	Maunal Return	35
	Low Side	–0.7	6	Duplicate Voltage Disparity≤1		3	Maunal Return	16.5
HEP830HLM	High Side	8	30	Duplicate Voltage Disparity≤4		20	Maunal Return	35

Pressure Gauge

Pressure Gauge

PHOTO	DESCRIPTION OF GOODS	MODEL	OPTIONAL
	STEEL SHELL, PLASTIC LENS, BOTTOM CONECTION	EY803	1.5"–6" –F WITH FLANGE –U WITH U CLAMP –R RHOMBUS CLAMP
	STEEL SHELL, PLASTIC LENS, BACK CONNECTION	EY804	
	PLASTIC SHELL, PLASTIC LENS, BACK CONNECTION	EY805	1.5"–4"
	PLASTIC SHELL, PLASTIC LENS, BOTTOM CONNECTION	EY806	
	S.S 304 SHELL, bACK CONNECTION, WITHOUT OIL	EY807	1.5"–6" –F WITH FLANGE –U WITH U CLAMP –R RHOMBUS CLAMP
	S.S 304 SHELL, BOTTOM CONNECTION, WITHOUT OIL	EY808	
	FULL S.S, BOTTOM CONNECTION, WITHOUT OIL	EY809	1.5"–6" –F WITH FLANGE –U WITH U CLAMP –R RHOMBUS CLAMP
	FULL S.S, BACK CONNECTION, WITHOUT OIL	EY810	
	s.s 304 SHELL, BOTTOM CONNECTION, WITH OIL	EYN801	1.5"–6" –F WITH FLANGE –U WITH U CLAMP –R RHOMBUS CLAMP
	s.s 304 SHELL, BACK CONNECTION, WITH OIL	EYN802	
	FULL S.S, BOTTOM CONNECTION, WITH OIL	EYN803	1.5"–6" –F WITH FLANGE –U WITH U CLAMP –R RHOMBUS CLAMP
	FULL S.S, BACK CONNECTION, WITH OIL	EYN804	

* How to order: Pls tell us the model NO. and don't forget to point out the Pressure range.

台灣第一品牌集中潤滑給油裝置
TAIWAN BEST BRAND CENTRALIZED LUBRICATION SYSTEMS

台灣精品認證 Taiwan Excellence Certificate

ISO 9001

抵抗式電動注油機 Resistance Type Electric Lubricator

CESH 單旋鈕式
CESH Single
Time Adjuster Type

CESP 撥鍵式
CESP Dial Type
(Timer Inside The
Wire Box)

CESD 時間調整鈕
在配線蓋內
CESD Timer Inside
The Wire Box

CESW 雙旋鈕式
CESW Two Time
Adjuster Type

CENA 微電腦式
CENA NC
IC Controlled

CEN01 由PLC
控制時間
CEN01 Controlled
By PLC

CEN02 微電腦式
CEN02 NC
IC Controlled

CEV-02 由PLC控制時間
CEV-02 Controlled
By PLC

CEV-03 由PLC控制時間
CEV-03 Controlled
By PLC

CEV-05 60W含壓力開關
CEV-05 60W With
Pressure switch

CEA 雙旋鈕式
CEA Two Time
Adjuster Type

CESA 自動活塞式
CESA Without
Float Switch

CESMB 密封式
CESMB With
Float Switch

CESC 加蜂鳴器式
CESC With
Buzzer Device

CESS 1L型
CESS 1L Type

抵抗式手動注油機 Resistance Type Manual Lubricator

CLA-6、CLA-8手搖式
CLA-6、CLA-8 Type

CKE-20 手壓式
CKE-20 Type

E型C
E Type C

CTA-8 手拉式左邊型
、右邊型 CTA-8
Left Type, Right Type

CTA-3 手拉式
CTA-3 Type

脫壓式電動注油機 Pressure-Relief Type Electric Lubricator

CEN03 由
PLC控制時間
CEN03 Controlled
By PLC

CEN04 微電腦式
CEN04 NC
IC Controlled

CENB 微電腦式
CENB NC
IC Controlled

CEAB 雙旋鈕式
CEAB Two Time
Adjuster Type

CEVB-03
（含壓力開關、指示燈）
CEVB-03
(With Pressure Switch, light)

氣動、油氣、油霧式注油機 Pneumatic, Oil-Air, Oil-Mist Lubricators

PNA抵抗式
氣動注油機
PNA Resistance
Pneumatic Lubricator

PNB托壓式
氣動注油機
PNB Pressure-
Relief Type
Pneumatic
Lubncator

COA 油氣式
電動注油機
COA Oil-Air Electric
Lubricator

CEN23 油霧式
微電腦控制
CEN23 Oil-Mist NC
IC Controlled

CO-1定量式油氣噴槍
CO-1 Oil-Air Spray Gun

OM型調整式霧化噴槍
OM Type Adjustable
Spray Gun

迴油式電動注油機 Circulating Electric Lubricator

CEF 雙旋鈕式
CEF Two Time
Adjuster Type

CEH 由PLC控制時間
CEH Controlled
By PLC

CEU 由PLC控制時間
CEU Controlled
By PLC

CLSB 由PLC控制時間
CLSB Controlled
By PLC

CLST 冷卻式由
PLC控制時間
CLST Cooling Type
Controlled By PLC

主力分配器 Distributors

T型檢知容積式
分配器
T Type Detectice
Volume Distributor

CAB型容積式
分配器
CAB Type
Volume Distributor

CO型油氣式容積式
分配器
CO Type Oil-Air
Volume Distributor

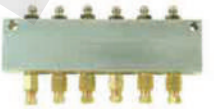
CV型單一循環
分配器
CV Progressive
Feeders

BS型透明調整
分配器
BS Type Adjustable
Distributor

A型分配器
A Type
Distributor

B型油量調整分配器
B Type Adjustable
Distributor

CB螺母型防震動分配器
CB Type Anti-Vibration
Distributor



BB型黃油嘴
黃油分配器
BB Type Grease
Nipple Distributor

主力零配件 Accessories & Fittings

自吸式馬達
Suction Pump

浸水式馬達
Immersion Pump

銑殼臥式直結馬達
Cast Iron Horizontal Motor

鐵殼臥式連軸馬達+給油幫浦
Horizonal Motor With Oil Pump

高、低壓過濾器
High and Low Pressure Filter

風壓活動輪
Swivel

自動油過濾器
Oil Auto Cleaner

壓力開關
Pressure Switch

電磁幫浦
Electro-magnetic Pump

浮動開關
Float Switch

套管帽
Compression Bushing
Pipe Dia：
Ø4, Ø6, Ø8, Ø10

套管
Compression Sleeve
Pipe Dia：
Ø4, Ø6, Ø8, Ø10

直接頭
Straight Adapter
Pipe Dia：
Ø4, Ø6, Ø8, Ø10

黃油系列注油機 Grease Lubricators

CLHA-20
手動式600cc
CLHA-20
Manual 600cc
NLGI0～000

CLHA-25
手動黃油條式 400cc
CLHA-25
Grease Tube Type

CLHP-40
手動式650cc
CLHP-40
Manual 650cc
NLGI 2～000

MAG氣動式
黃油注油機
Pneumatic Grease
Lubricator,
NLGI 000~2

KSBP-40 雙旋鈕式
110V/220V/DC 24V
KSBP-40 Controlled
By Timer
NLGI 000～2

KSCP-40
由PLC控制時間
110V/220V/DC 24V
KSCP-40 Controlled
By PLC
NLGI 000～2

KGH高壓式
High Pressure Type
DC 24V Controlled
By PLC,
NLG1 000～2

CYP-12A 單面轉式給油幫浦
CYP-12A Rotary Oil Pump

CYP-3FS 雙面轉式給油幫浦
CYP-3FS Rotary Oil Pump

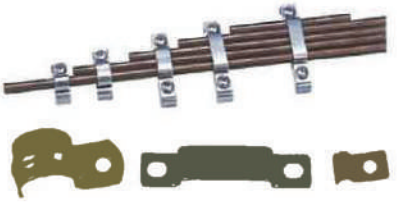
CYP-204 重油給油幫浦
CYP-204 Heavy Oil Pump

彎管器
Multiple size Φ4~Φ10
Tube Bender

切管機
Tube Cutter

各式軟管
Pipes

各式油管
Pipes



各式管夾
Tube Clips

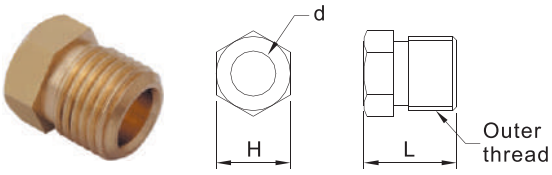
直角接頭
Elbow Adapter
Pipe Dia：
Ø4, Ø6, Ø8, Ø10

比例接頭
Proportion Adapter

雙接頭、三通管、四通管
Junctions Ø4、Ø6、Ø8

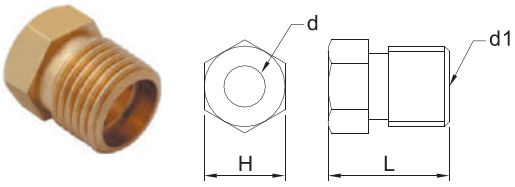
高壓管夾
High Pressure Clamps

Compression Bushing



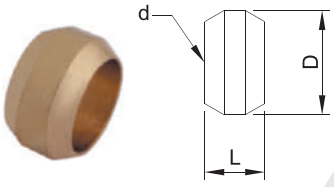
Model	Bore	d	L	Outer-thread	H	N.W. (g)
PA-4	Ø4	Ø4.1	12	M8xP1.0	8	3
PA-6	Ø6	Ø6.1	12.5	M10xP1.0	10	4
PA-8	Ø8	Ø8.1	14	M14xP1.5	14	9
PA-10	Ø10	Ø10.1	15	M16xP1.5	16	12
PA-12	Ø12	Ø12.1	16	M18xP1.5	19	16

Compression Bushing



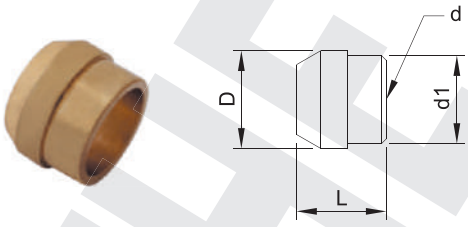
Model	Bore	d	d1	L	Outer-thread	H	N.W. (g)
PA104	Ø4	Ø4.1	Ø5.5	12	M8xP1.0	8	3
PA106	Ø6	Ø6.1	Ø7.5	12.5	M10xP1.0	10	4

Compression Sleeve



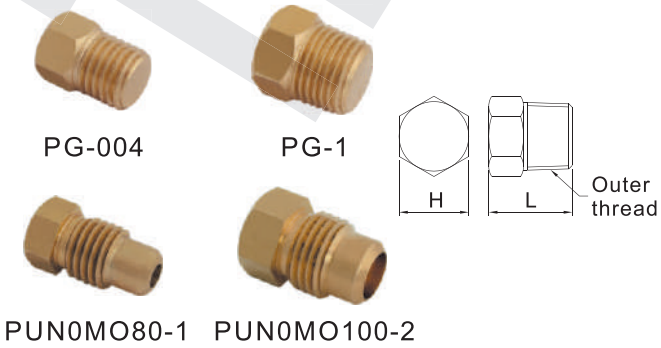
Model	Bore	d	D	L	N.W. (g)
PB-4	Ø4	Ø4.1	Ø6	4.6	0.3
PB-6	Ø6	Ø6.1	Ø8	4.6	0.6
PB-8	Ø8	Ø8.1	Ø11	7	2.0
PB-10	Ø10	Ø10.1	Ø13.5	8	3.0
PB-12	Ø12	Ø12.1	Ø16	9	4.0

Compression Sleeve



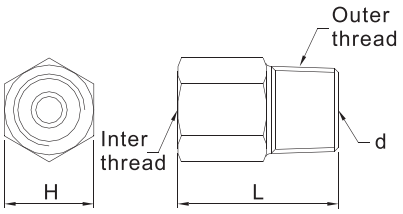
Model	Bore	d	d1	D	L	N.W. (g)
PB104	Ø4	Ø4.1	Ø5.4	Ø6	5.5	0.4
PB106	Ø6	Ø6.1	Ø7.4	Ø8	6	0.7

Closure Plug



Model	L	Outer-thread	H	N.W. (g)
PG-004	12	M8xP1.0	8	4
PG-1	12	PT1/8	10	6
PUNOM080-1 (Central Bore Ø3)	16	M8xP1.0 (Long Type)	8	6
PUN0M100-2 (Central Bore Ø6)	16	M10xP1.0	10	8

Straight Adapter



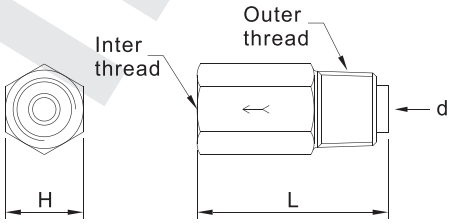
Model	Bore	d	L	H	Inter-thread	Outer-thread	N.W. (g)
PD-401	Ø4	Ø3	18	10	M8xP1.0	PT1/8	8
PD-402	Ø4	Ø3	18	14	M8xP1.0	PT1/4	17
PD-403	Ø4	Ø3	18	17	M8xP1.0	PT3/8	28
PD-601	Ø6	Ø4	18	12	M10xP1.0	PT1/8	8
PD-602	Ø6	Ø5	18	14	M10xP1.0	PT1/4	14
PD-603	Ø6	Ø5	18	17	M10xP1.0	PT3/8	24
PD-801	Ø8	Ø5	26	17	M14xP1.5	PT1/8	22
PD-802	Ø8	Ø6	26	17	M14xP1.5	PT1/4	26
PD-803	Ø8	Ø7	26	17	M14xP1.5	PT3/8	30
PD-1002	Ø10	Ø7	30	19	M16xP1.5	PT1/4	33
PD-1003	Ø10	Ø9	30	19	M16xP1.5	PT3/8	35
PD-1202	Ø12	Ø7	32	21	M18xP1.5	PT1/4	42
PD-1203	Ø12	Ø9	34	21	M18xP1.5	PT3/8	46

Non-Standard Items

Model	Bore	d	L	H	Inter-thread	Outer-thread	N.W. (g)
PD-406	Ø4	Ø2	20	10	M8xP1.0	M6xP0.75	6
PD-4061	Ø4	Ø2	20	10	M8xP1.0	M6xP1.0	6
PD-408	Ø4	Ø3	18	10	M8xP1.0	M8xP1.0	6
PD-410	Ø4	Ø3	18	12	M8xP1.0	M10xP1.0 TAP	6
PD-606	Ø6	Ø2	18	12	M10xP1.0	M6xP0.75	8
PD-6061	Ø6	Ø2	18	12	M10xP1.0	M6xP1.0	8
PD-608	Ø6	Ø3	21	12	M10xP1.0	M8xP1.0	8
PD-610	Ø6	Ø4	18	12	M10xP1.0	M10xP1.0 TAP	8

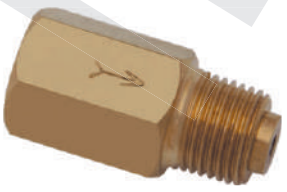
Model	L	H	Inter-thread	Outer-thread	N.W. (g)
PD-101	18	12	PT1/8	PT1/8	9
PD-102	18	14	PT1/8	PT1/4	16
PD-202	18	16	PT1/4	PT1/4	14
PD-203	26	17	PT1/4	PT3/8	34

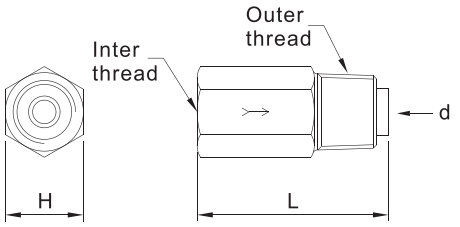
One-Way Flow Straight Adapter



Model	Bore	d	L	H	Inter-thread	Outer-thread	N.W. (g)
PD-4011	Ø4	Ø2.2	24.5	10	M8xP1.0	PT1/8	11
PD-6011	Ø6	Ø2.2	25.5	12	M10xP1.0	PT1/8	14

Reverse Flow Straight Adapter

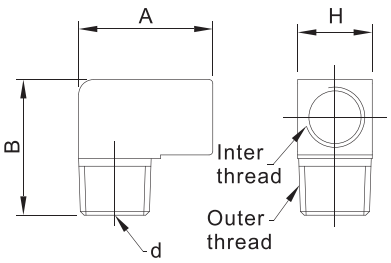




Model	Bore	d	L	H	Inter-thread	Outer-thread	N.W. (g)
PD-4012	Ø4	Ø2.2	24.5	10	M8xP1.0	PT1/8	11
PD-6012	Ø6	Ø2.2	25.5	12	M10xP1.0	PT1/8	14

Elbow Adapter


PH-400 PH-601



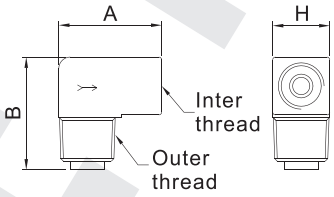
Model	Bore	d	A	B	H	Inter-thread	Outer-thread	N.W. (g)
PH-400	Ø4	Ø3	18	18	10	M8xP1.0	Ø5.8-6.2	13
PH-401	Ø4	Ø4	18	18	10	M8xP1.0	PT1/8	13
PH-402	Ø4	Ø5	20	21	14	M8xP1.0	PT1/4	32
PH-601	Ø6	Ø4	20	20	12	M10xP1.0	PT1/8	20
PH-602	Ø6	Ø5	20	21	14	M10xP1.0	PT1/4	29
PH-801	Ø8	Ø4	26	29	17	M14xP1.5	PT1/8	52
PH-802	Ø8	Ø6	26	29	17	M14xP1.5	PT1/4	56
PH-803	Ø8	Ø8	26	29	17	M14xP1.5	PT3/8	59
PH-1002	Ø10	Ø7	29	31	19	M16xP1.5	PT1/4	70
PH-1003	Ø10	Ø8	29	31	19	M16xP1.5	PT3/8	76
PH-1202	Ø12	Ø7	33	34	21	M18xP1.5	PT1/4	91
PH-1203	Ø12	Ø10	33	34	21	M18xP1.5	PT3/8	95

Non-Standard Items

Model	Bore	d	A	B	H	Inter-thread	Outer-thread	N.W. (g)
PH-406	Ø4	Ø2	18	18	10	M8xP1.0	M6xP0.75	13
PH-4061	Ø4	Ø2	18	18	10	M8xP1.0	M6xP1.0	12
PH-408	Ø4	Ø3	18	18	10	M8xP1.0	M8xP1.0	13
PH-410	Ø4	Ø2	20	20	12	M8xP1.0	M10xP1.0 TAP	24
PH-6061	Ø6	Ø2	20	20	12	M10xP1.0	M6xP1.0	20
PH-608	Ø6	Ø3	20	20	12	M10xP1.0	M8xP1.0	20
PH-610	Ø6	Ø4	20	20	12	M10xP1.0	M10xP1.0 TAP	22

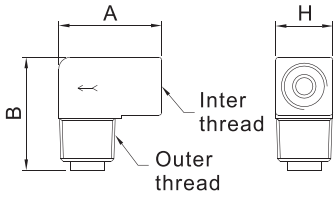
Model	d	A	B	H	Inter-thread	Outer-thread	N.W. (g)
PH-101	Ø4	20	20	12	PT1/8	PT1/8	17
PH-102	Ø5	20	21	14	PT1/8	PT1/4	30
PH-201	Ø4	26	29	17	PT1/4	PT1/8	47
PH-202	Ø6	26	29	17	PT1/4	PT1/4	50
PH-203	Ø8	26	29	17	PT1/4	PT3/8	56
PH-303	Ø10	33	34	21	PT3/8	PT3/8	91
PH00AV01	Ø4	20	20	12	PT1/8	M10xP1.0 TAP	21

One-Way Flow Elbow Adapter



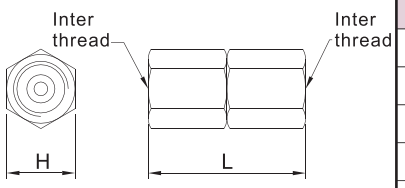
Model	Bore	d	A	B	H	Inter-thread	Outer-thread	N.W. (g)
PH-4011	Ø4	Ø2.2	18	19.5	10	M8xP1.0	PT1/8	11
PH-6011	Ø6	Ø2.2	20	21.5	12	M10xP1.0	PT1/8	14

Reverse Flow Elbow Adapter



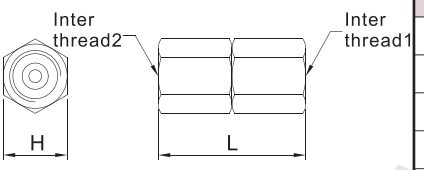
Model	Bore	d	A	B	H	Inter-thread	Outer-thread	N.W. (g)
PH-4012	Ø4	Ø2.2	18	19.5	10	M8xP1.0	PT1/8	11
PH-6012	Ø6	Ø2.2	20	21.5	12	M10xP1.0	PT1/8	14

Connector A/B



Connector A

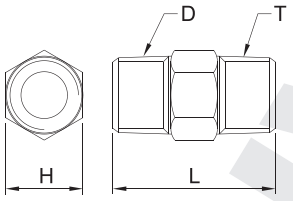
Model	Bore	H	L	Inter-thread	N.W. (g)
PM-4	Ø4	10	26	M8xP1.0	17
PM-6	Ø6	12	26	M10xP1.0	12
PM-8	Ø8	17	33	M14xP1.5	40
PM-10	Ø10	19	37	M16xP1.5	51
PM-12	Ø12	21	37	M18xP1.5	65



Connector B

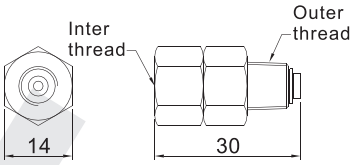
Model	Bore	H	L	Inter-thread1	Inter-thread2	N.W. (g)
PN-4	Ø4	12	23	M8xP1.0	PT1/8	16
PN-6	Ø6	12	23	M10xP1.0	PT1/8	12
PN-8	Ø8	17	30	M14xP1.5	PT1/4	41
PN-10	Ø10	19	32	M16xP1.5	PT1/4	58
PN-12	Ø12	21	36	M18xP1.5	PT3/8	65

Connector



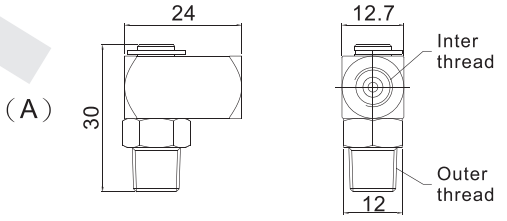
Model	DxT	Material	H	L	N.W. (g)
CN-101	PT1/8xPT1/8	Brass	10	21	8.0
CN-202	PT1/4xPT1/4	Brass	14	25	10.0
CN-404	PT1/2xPT1/2	Iron	23	40	68.0
RN-102	PT1/8xPT1/4	Brass	14	23	16.0
RN-203	PT1/4xPT3/8	Brass	17	27	18.0
RN-304	PT3/8xPT1/2	Iron	21	39	56.0
PTD10010	M10xPT1/8	Brass	10	20	8.5
PTD10100	M10xM10	Brass	10	20	7.5
PTD01021	PT1/8xPT1/4	Iron	14	32	20.0
PTD03031	PT3/8xPT3/8	Iron	17	36	42.0
PTD03061	PT3/8xPT3/4	Iron	27	47	108.0
PROCPV-1	M8xM8	Brass	10	22	6.6
PROCPS	M8xPT1/8	Brass	10	22	8.4

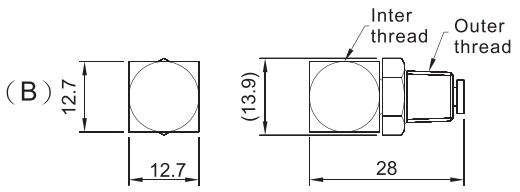
Swivel Straight Adapter



Model	Outer-thread	Inter-thread	N.W. (g)
SS-101	PT1/8	PT1/8	26
SS-401	PT1/8	M8xP1.0	28

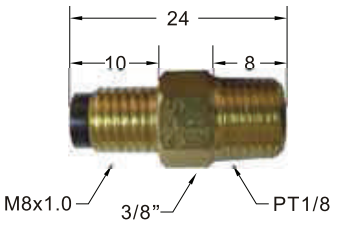
Plane Swivel Elbow Adapter



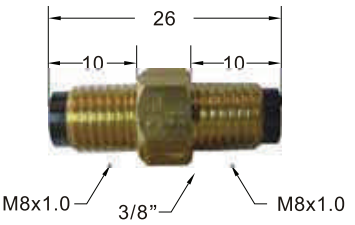


Model	Inter-thread	Outer-thread	N.W. (g)
ES-401(A)	M8xP1.0	PT1/8	38
ES-601(A)	M10xP1.0	PT1/8	38
Model	Inter-thread	Outer-thread	N.W. (g)
ES-101(B)	PT1/8	PT1/8	36

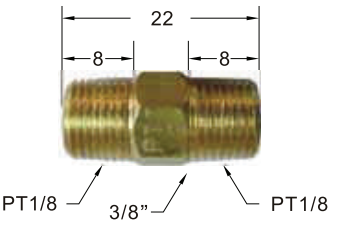
Proportion Adapters



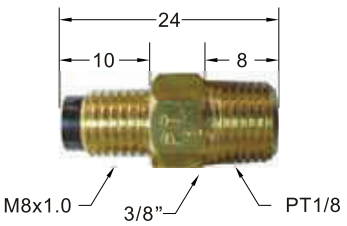
CPS



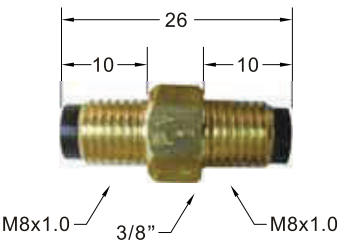
CPB



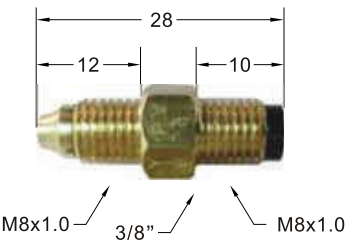
PTT



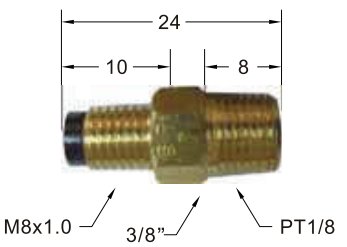
CPT



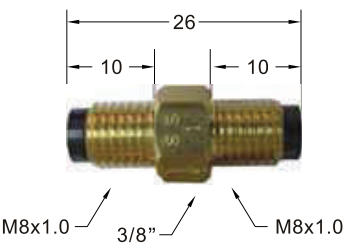
CPV Standard



CPV With Nipple



ST



SS

Specification	Model	Code					Outer-thread	Weight(g)
For Grease NLGI grades 0～000	CPS	1	2	3	4	5	M8xPT1/8	10
	CPB						M8xM8	9

Code				
1	2	3	4	5
Flow Rate				
1	2	4	8	16

Specification	Model	Code					Outer-thread	Weight(g)
・One way flow with reverse stopper ・For large and small volume use ・Suitable for oil use	PTT	1	2	3	4	5	PT1/8xPT1/8	10
	CPT						M8xPT1/8	10
	1.CPV Standard 2.CPV With Nipple						M8xM8	9

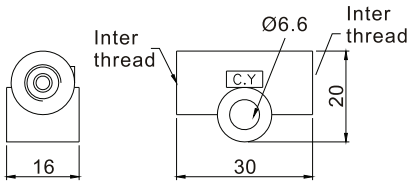
Code				
1	2	3	4	5
Flow Rate				
1	2	4	8	16

Specification	Model	Code						Outer-thread	Weight(g)
・One way flow with reverse stopper ・For large volume use ・Suitable for oil use	ST	0	1	2	3	4	5	M8xPT1/8	9
	SS							M8xM8	8

Code					
0	1	2	3	4	5
Flow Rate					
2	4	8	16	32	64

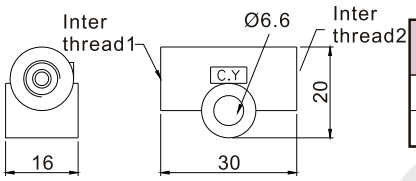
※In millimeter unless otherwise stated.

2 Way Junction A



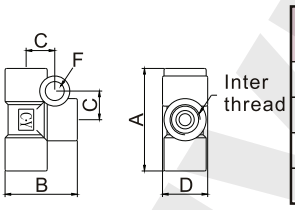
Model	Bore	Inter-thread	Weight(g)
JD-4	Ø4	M8xP1.0	27
JD-6	Ø6	M10xP1.0	23

2 Way Junction B



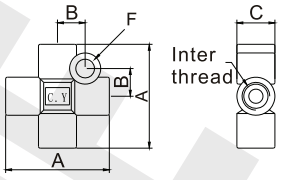
Model	Bore	Inter-thread1	Inter-thread2	Weight(g)
JD-601	Ø6	M10xP1.0	PT1/8	22
JD-406	Ø4xØ6	M8xP1.0	M10xP1.0	25

3 Way Junction



Model	Bore	A	B	C	D	F	Inter-thread	Weight(g)
PKD-4	Ø4	29	19.5	8.5	12	Ø6.2	M8xP1.0	16
PKD-6	Ø6	34	24	9.5	15		M10xP1.0	32
PKD-8	Ø8	42	31	14.5	19	Ø6.6	M14xP1.5	64
PKD-10	Ø10	51	37	16	24		M16xP1.5	89

4 Way Junction



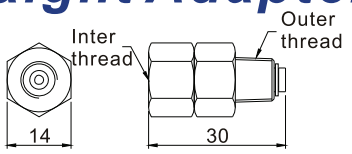
Model	Bore	A	B	C	F	Inter-thread	Weight(g)
PJD-4	Ø4	30	8	11	Ø5.3	M8xP1.0	23
PJD-6	Ø6	34	9	15.5	Ø5.8	M10xP1.0	33
PJD-8	Ø8	42	12	22	Ø6.8	M14xP1.5	94

Vertical Junction

Model	Outlet Num.	Bore	A	B	C	Inter-thread	Weight(g)
PHD-301	3	Ø4	21	21	21	M8xP1.0	18
PHD-401	4		30	21	21		23
PHD-501	5		30	30	21		27

※In millimeter unless otherwise stated.

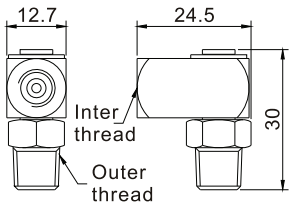
Swivel Straight Adapter



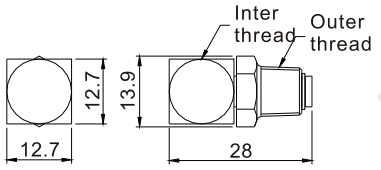
Model	Inter-thread	Outer-thread	Weight(g)
SS-101	PT1/8	PT1/8	26
SS-401	PT1/8	M8xP1.0	28

Plane Swivel Elbow Adapter

(A)

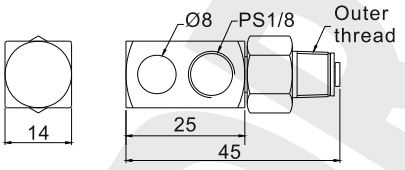


(B)



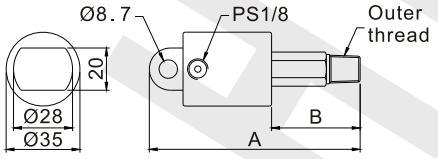
Model	Inter-thread	Outer-thread	Weight(g)
ES-401 (A)	M8xP1.0	PT1/8	38
ES-601 (A)	M10xP1.0	PT1/8	38
Model	Inter-thread	Outer-thread	Weight(g)
ES-101 (B)	PT1/8	PT1/8	36

Brass Swivel Fitting



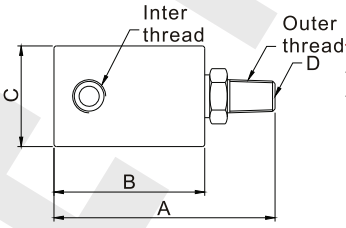
Model	Outer-thread	Weight(g)
PWN-101	PT1/8	46
PWN-201	PT1/4	50

Swivel



Model	Outer-thread	A	B	Weight(g)
PWN-130	PT1/8	88	30	150
PWN-142	PT1/8	100	42	160
PWN-160	PT1/8	118	60	180
PWN-230	PT1/4	88	30	160
PWN-242	PT1/4	100	42	170
PWN-260	PT1/4	118	60	190
PWN-342	PT3/8	100	42	154
PWN-360	PT3/8	118	60	225

Swivel



◆Order Code：

RU–02 — L — A — ※ Special Request

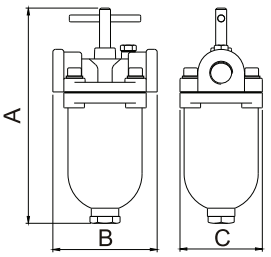
- Model 02 to 15
- L：Left Thread / R：Right Thread
- A：For Air / W：For Water
- H：High Speed (RU-02~04), 3500~4000 RPM / S：Standard Speed 1800~2000 RPM

Model	Thread	Bore	A	B	C	D	Inter-thread	Outer-thread	Weight(g)
RU-02	Left or Right Thread	PT1/4	88	60	Ø40	Ø7	PT1/4	PT1/4	256
RU-03		PT3/8	88	60	Ø40	Ø9	PT3/8	PT3/8	265
RU-04		PT1/2	104	70	Ø50	Ø12	PT1/2	PT1/2	484
RU-06		PT3/4	122	80	Ø60	Ø16	PT3/4	PT3/4	776
RU-10		PT1	134	93	Ø70	Ø20	PT1	PT1	1144
RU-12		PT11/4	160	110	Ø85	Ø28	PT11/4	PT11/4	1987
RU-15		PT11/2	170	120	Ø93	Ø32	PT11/2	PT11/2	2593

※In millimeter unless otherwise stated.

Oil Auto Cleaner

(Chen Ying)



(Japenese Filter)

Model	Specification	A	B	C	Mesh	Max Pressure	Weight (g)
A-102	PT1/4xPT1/4	160	76	60	60	25kgf/cm^2	750
					100		
A-103	PT3/8xPT3/8				60		750
					100		
A-104	PT1/2xPT1/2	200	89	71	60		1150
					100		
	PT3/4xPT3/4				60		
					100		
A-106	PT3/4xPT3/4	270	120	85	60 (20 μ)		1900
A-110	PT1xPT1				60 (20 μ)		2200

◆Order Code：

A－ 102 — A

Model: A-102, A-103

A：60Mesh
B：100Mesh

◆Order Code：

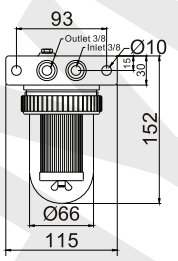
A－ 104 — A — 1

Model

A：60Mesh
B：100Mesh

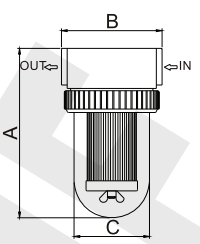
1：PT1/2xPT1/2
2：PT3/4xPT3/4

Fixed Oil Filter



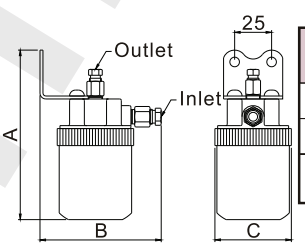
Model	Mesh	Weight(g)
PEF20	100	1036

Oil Filter



Model	Specification	A	B	C	Max Pressure	Mesh	Weight(g)
FL-2	PT1/4xPT1/4	148	88	Ø66	10kgf/cm^2	100	875
FL-3	PT3/8xPT3/8	148	88	Ø66			867
FL-6	PT3/4xPT3/4	218	114	Ø93			1340
FL-8	PT1xPT1	218	114	Ø93			1350

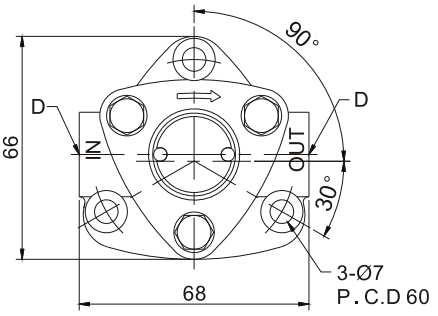
Oil Filter

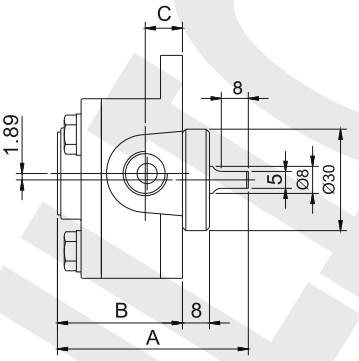


Model	Specification	A	B	C	Max Pressure	Mesh	Weight(g)
A-101-1	PT1/8xPT1/8	105	85	52	10kgf/cm^2	40	260
A-101-3		115	85	52	30kgf/cm^2		440
A-101-2		115	85	52	30kgf/cm^2	400 (37 μ)	440

※In millimeter unless otherwise stated.

Rotary Oil Pump (Clockwise or Anti-clockwise)





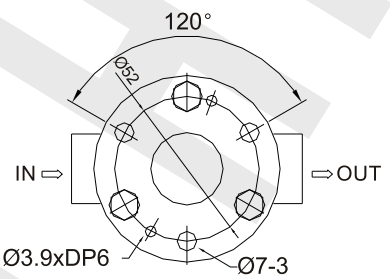
◆**Features**

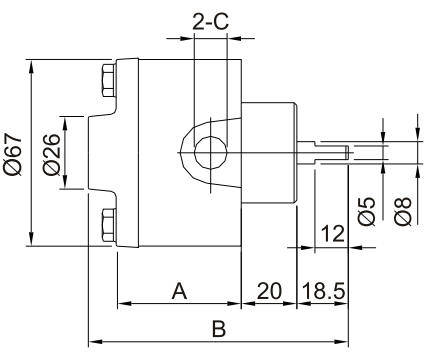
1.Single rotary oil pump is also called Triangular pump or oil circulation pump.
2.Recommend to assemble with 1/4 HP Horizontal Motor.
3.CYP-10A ~ 13A with different flow rate, the standard model is clockwise. Please remark on order while request anti-clockwise one.
4.It can be added adjustable pressure valve CYP-AV as optional. The range of pressure adjustment is 2~5 kg/cm².
5.Special request on assembling with reservoir or cyclic inlet or motor with fan, etc. are available. Refer to Chen Ying Circulating Electric Lubricator series products.
6.The revolution is 1420~1720 rpm and 450~1200 rpm for choosing type of CYP-12L only.
7.It can be applied widely for lubricating or cooling in various machines.

Model	A	B	C	D
CYP-11A-1	56.5	37	11	PT1/8
CYP-11A-2				PT1/4
CYP-12A	62.5	43	11	PT1/4
CYP-12L	62.5	43	11	PT1/4
CYP-13A	77.5	58	13.5	PT3/8

Model	Dis. Volume(L/min)		Max Pressure	R.P.M
	1420rpm	1720rpm		
CYP-10A	1.0	1.2	5kgf/cm²	1420~1720rpm
CYP-11A	1.8	2.2		
CYP-12A	3.0	3.7		
CYP-12L				450~1200rpm
CYP-13A	5.5	6.7		1420~1720rpm

Reversible Pump (Clockwise and Anti-clockwise)





◆**Features**

1.Reversible pump uses three pieces of M6*16L screw to make inlet and outlet be fixed. The rotating shaft can reverse clockwise or anti-clockwise during the operation of machine.
2.It is suitable for assembling with gear pump.
3.There are CYP-1FS~3FS available for different flow rate. The high revolution is 2,000 rpm.
4.Reversible pump is usually applied in Drilling Machines, Milling Machines, and CNC Lathes, etc.

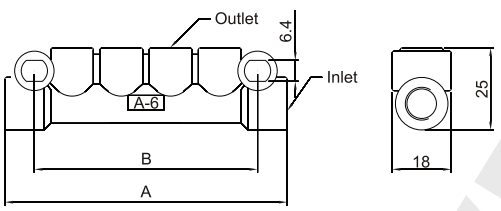
Model	A	B	C
CYP-1FS	85	46	PT1/4
CYP-2FS	89	50	PT1/4
CYP-3FS	93	54	PT1/4

Model	Dis. Volume(L/min)		Max Pressure	R.P.M
	1420rpm	1720rpm		
CYP-1FS	1.74	2.08	5kgf/cm²	2000rpm
CYP-2FS	2.7	3.24		
CYP-3FS	3.75	4.50		

※In millimeter unless otherwise stated.

A Type Distributor

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
A-4	3	StandardsØ6 Ø4 Optional	Ø4	49	35	70	68
A-5	4			65	51	86	83
A-6	5			82	68	110	108
A-7	6			94	80	125	120
A-8	7			107	94	131	127
A-9	8			122	109	158	157
A-10	9			137	123	175	170
A-12	11			167	152	201	200
Special Iterms							
Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
A-700	6	StandardsØ6 Ø4 Optional	Ø4	98	84	124	122
A-8000	7			115	100	136	134
A-900	8			134	115	160	154
A-1000	9			146	132	176	173
DB-12	11			176	164	212	210



◆ **Order Code：**

A-6 ——— 6 4 ※

Outlet Number
4：3 Outlets
5：4 Outlets
6：5 Outlets
7：6 Outlets
8：7 Outlets
9：8 Outlets
10：9 Outlets
12：11 Outlets

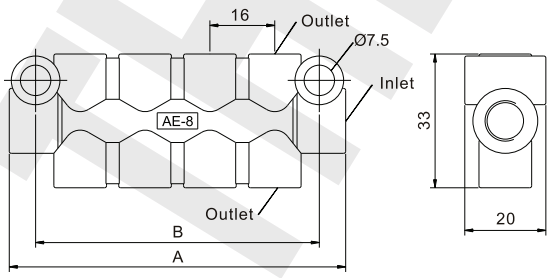
Inlet Bore
4：Ø4
6：Ø6

Outlet Bore
4：Ø4

※ S:With Compression Bushing and Sleeve

AE Type Distributor

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
AE-4	5	StandardsØ6 Ø4 Optional	Ø4	48	35	73	71
AE-6	7			65	51	103	101
AE-8	9			83	70	128	124
AE-10	11			97	83	151	148
AE-12	13			112	99	179	171



◆ **Order Code：**

AE-8 ——— 6 4 ※

Outlet Number
4：5 Outlets
6：7 Outlets
8：9 Outlets
10：11 Outlets
12：13 Outlets

Inlet Bore
4：Ø4
6：Ø6

Outlet Bore
4：Ø4

※ S:With Compression Bushing and Sleeve

High Pressure Pipe Clamps

Specification	Diameter	Bore
6A	10.5mm	
8A	13.8mm Standards	PT 1/4
	12mm Special Item1	
	16mm Special Item2	
10A	17.3mm	PT 3/8
15A	21.7mm	PT 1/2
20A	27.2mm	PT 3/4
25A	34mm Standards	PT 1
	25mm Special Item1	
	30mm Special Item2	
32A	42.7mm	PT 1 1/4
40A	48.6mm	PT 1 1/2
50A	60.5mm	PT 2
65A	76.3mm	PT 2 1/2
80A	89.1mm	PT 3
100A	114.3mm	PT 4
125A	140mm	PT 5

Pipe Clips

◆**Order Code :**

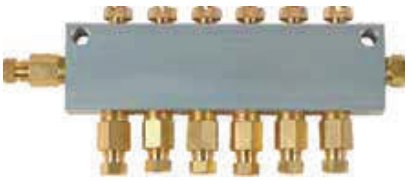
PZ – 1 —— 1 —— 04 —— 07

Fixed Hole Num.	Pipe Number	Pipe Diameter	Thickness(mm)
1 : 1 fixed hole	1 : 1 pipe	04 : Ø4	07 : 0.7mm
2 : 2 fixed holes	to	to	10 : 1.0mm
3 : 3 fixed holes	7 : 7 pipe	28 : Ø28	12 : 1.2mm
			15 : 1.5mm
			16 : 1.6mm
			20 : 2.0mm

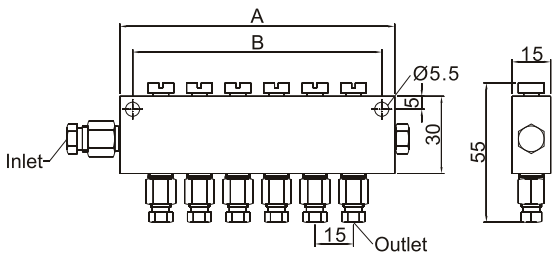
No	Order Code	Fixed Hole Num.	Pipe Dia.	Pipe Num.	Thickness (mm)	Width(mm)	Length (mm)	Fixed Hole Dia.(mm)
1	PZ-110407	1	Ø4	1	0.7	10	19	5
2	PZ-120410	1	Ø4	2	1.0	10	28	5
3	PZ-130410	1	Ø4	3	1.0	10	27	5
4	PZ-140410	1	Ø4	4	1.0	10	31	5
5	PZ-150410	1	Ø4	5	1.0	10	35	5
6	PZ-110610	1	Ø6	1	1.0	10	23	5
7	PZ-120610	1	Ø6	2	1.0	10	28	5
8	PZ-130610	1	Ø6	3	1.0	12	34	5
9	PZ-110810	1	Ø8	1	1.0	10	23	5
10	PZ-120810	1	Ø8	2	1.0	12	32	5
11	PZ-111010	1	Ø10	1	1.0	10	27	5
12	PZ-111212	1	Ø12	1	1.2	12	31	5
13	PZ-111516	1	Ø15	1	1.6	20	43	7
14	PZ-110320	1	PS3/8(Ø16.67)	1	2.0	20	47	7
15	PZ-110420	1	PS1/2(Ø21)	1	2.0	20	52	7
16	PZ-112216	1	Ø22	1	1.6	20	48	7
17	PZ-110620	1	PS3/4(Ø26.44)	1	2.0	20	55	7
18	PZ-112816	1	Ø28	1	1.6	20	57	7
19	PZ-113316	1	Ø33	1	1.6	20	64	7
20	PZ-110820	1	PS1(Ø33.2)	1	1.6	20	64	7
21	PZ-114220	1	Ø42	1	2.0	20	76	7
22	PZ-115020	1	Ø50	1	2.0	20	83	7
23	PZ-116020	1	Ø60	1	2.0	20	95	7

※In millimeter unless otherwise stated.

B Type Adjustable Distributor



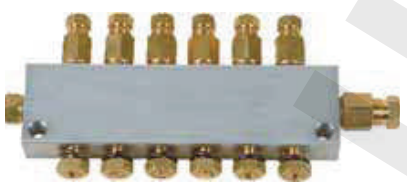
Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
B-2	2	StandardsØ6 Ø4 Optional	StandardsØ4 Ø6 Optional	47	37	96	99
B-3	3			62	52	127	130
B-4	4			77	67	159	162
B-5	5			92	82	189	192
B-6	6			107	97	221	224
B-7	7			122	112	251	254
B-8	8			137	127	283	286
B-9	9			152	142	313	316
B-10	10			167	157	343	346
B-11	11			182	172	371	374
B-12	12			197	187	404	407



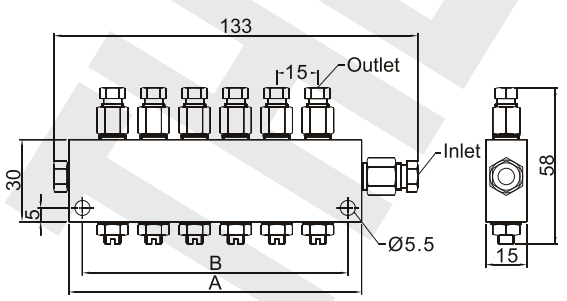
◆ **Order Code：**

B-6	6	4
Outlet Number 2：2 Outlets to 12：12 Outlets	Inlet Bore 4：Ø4 6：Ø6	Outlet Bore 4：Ø4

CB Type Anti-Vibration Distributor With Nut



Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
CB-2	2	StandardsØ6 Ø4 Optional	StandardsØ4 Ø6 Optional	47	37	101	103
CB-3	3			62	52	134	136
CB-4	4			77	67	166	168
CB-5	5			92	82	198	200
CB-6	6			107	97	230	232
CB-7	7			122	112	263	265
CB-8	8			137	127	295	297
CB-9	9			152	142	315	317
CB-10	10			167	157	362	364
CB-11	11			182	172	375	377
CB-12	12			197	187	410	412

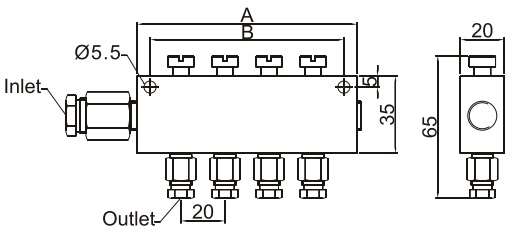


◆ **Order Code：**

CB-6	6	4
Outlet Number 2：2 Outlets to 12：12 Outlets	Inlet Bore 4：Ø4 6：Ø6	Outlet Bore 4：Ø4 6：Ø6

AB Type Adjustable Distributor

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Inlet BoreØ4 Weight(g)	Inlet BoreØ6 Weight(g)
AB-2	2	StandardsØ8 Ø10 Optional	StandardsØ6	60	50	186	200
AB-3	3			80	70	240	255
AB-4	4			100	90	295	310
AB-5	5			120	108	352	367
AB-6	6			140	127	407	421
AB-7	7			160	148	462	476
AB-8	8			180	168	514	528
AB-10	10			220	208	624	638

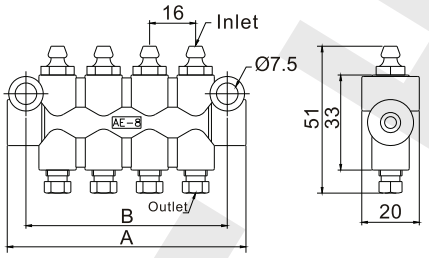


◆ **Order Code：**

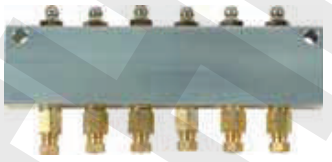
AB-4	10	6
Outlet Number 2：2 Outlets to 8：8 Outlets	Inlet Bore 08：Ø8 10：Ø10	Outlet Bore 6：Ø6

AE Type Grease Distributor With Parallel Outlet

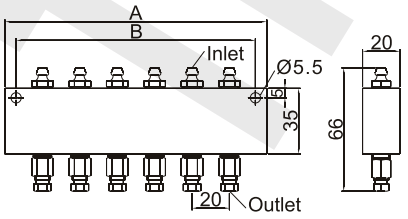
Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Weight(g)
AE-41	2	M8xP1.0 Ø4	M8xP1.0 Ø4	48	35	98
AE-61	3			65	51	129
AE-81	4			83	70	162
AE-101	5			97	83	190
AE-121	6			112	99	222



BB Type Grease Nipple Distributor



Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	Weight(g)
BB-2	2	Outer-thread PT1/8	Ø4 Ø6 PT1/8	60	50	134
BB-3	3			80	70	181
BB-4	4			100	90	230
BB-5	5			120	108	275
BB-6	6			140	127	321
BB-7	7			160	148	380
BB-8	8			180	168	420
BB-10	10			220	208	520



CAB、CBB Type Volume Distributor

◆Features:

1.Fixed amount of oil feeding. The lubrication points of volume distributor supply a fixed flow of lubricant.

2.CAB type has many kinds of discharge volume to be chosen: 0.03, 0.06, 0.10, 0.16 cc/stroke. As ordering, please details the discharge volume wanted.

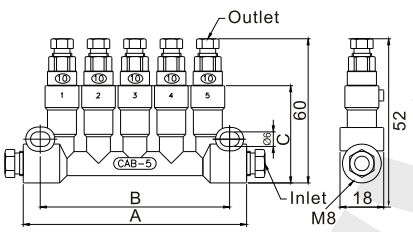
3.CBB type also has many kinds of discharge volume to be chosen: 0.1, 0.2, 0.3, 0.4, 0.5 cc/stroke. As ordering, please details the discharge volume wanted.

4.CAB, CBB type volume distributors have to work with pressure-relief type oil lubricators, and oil will feed during the operation time of the lubricator.

5.The lowest operation pressure of CAB, CBB is 8 kgf/㎠, and the max pressure is 30 kgf/㎠.

6.The viscosity range of oil is 32-90 cSt @ 40℃.

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Discharge Volume	Operation Pressure Range	Weight (g)
CAB-1	1	M8xP1.0/PT1/8	M8xP1.0 Ø4	Ø12		46	0.03cc 0.06cc 0.10cc 0.16cc	8kgf/cm² to 30kgf/cm²	30
CAB-2	2	M10xP1.0 Ø6		47	33	40			96
CAB-3	3			62	48				128
CAB-5	5			92	78				192
CAB-6	6			107	93				215
CAB-8	8			151	102				297

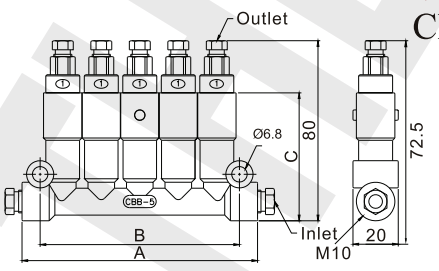


◆ Order Code：

CAB- 5 —— 1 1 1 1 1

Outlet Num.	First Outlet Volume	Second Outlet Volume	Third Outlet Volume	Fourth Outlet Volume	Fifth Outlet Volume
1：1 Outlet	1：0.03cc	1：0.03cc	1：0.03cc	1：0.03cc	1：0.03cc
2：2 Outlets	2：0.06cc	2：0.06cc	2：0.06cc	2：0.06cc	2：0.06cc
3：3 Outlets	3：0.10cc	3：0.10cc	3：0.10cc	3：0.10cc	3：0.10cc
5：5 Outlets	4：0.16cc	4：0.16cc	4：0.16cc	4：0.16cc	4：0.16cc
6：6 Outlets					
8：8 Outlets					

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Discharge Volume	Operation Pressure Range	Weight (g)
CBB-1	1	M10xP1.0 Ø6	M8xP1.0 Ø4	Ø16		68	0.1cc 0.2cc 0.3cc 0.4cc 0.5cc	8kgf/cm² to 30kgf/cm²	79
CBB-2	2			53	37	56.4			178
CBB-3	3			70	54				250
CBB-5	5			104	88				410



◆ Order Code：

CBB-5 —— 1 1 1 1 1

Outlet Num.	First Outlet Volume	Second Outlet Volume	Third Outlet Volume	Fourth Outlet Volume	Fifth Outlet Volume
1：1 Outlet	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc
2：2 Outlets	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc
3：3 Outlets	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc
5：5 Outlets	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc
	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc

CDB、T Type Detective Volume Distributor

◆**Features:**

1.Fixed amount of oil feeding. The lubrication points of volume distributor supply a fixed flow of lubricant.

2.T and CDB type have many kinds of discharge volume to be chosen: 0.1, 0.2, 0.3, 0.4, 0.5 cc/stroke. As ordering, please details the discharge volume wanted.

3.The standards are assembled detective piston, which can observe if operation is normal.

4.CDB, T type volume distributors have to work with pressure-relief type lubricators, and lubricant will feed during the operation time of the lubricator.

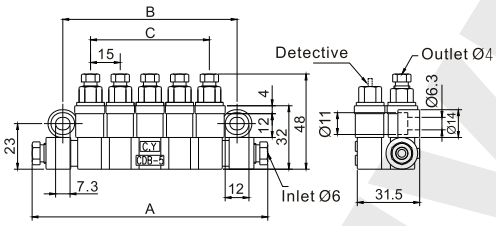
5.T type could be assembled NO (Normal Open) or NC (Normal Close) sensor switch on request, which would make symbols during operation or intermittent time, it's easier to observe.

6.CDB, T type can be used with oil pressure-relief type lubricators.

7.The lowest operation pressure of T, CDB is 8 kgf/cm², and the max pressure is 30 kgf/cm².

8.The viscosity range of oil is 32-90 cSt @ 40℃.

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Discharge Volume	Operation Pressure Range	Weight (g)
CDB-1	1	M10xP1.0 Ø6	M8xP1.0 Ø4	59	28		0.1cc 0.2cc 0.3cc 0.4cc 0.5cc	8kgf/cm² to 30kgf/cm²	121
CDB-2	2			74	43	15			201
CDB-3	3			89	58	30			276
CDB-5	5			119	88	60			433

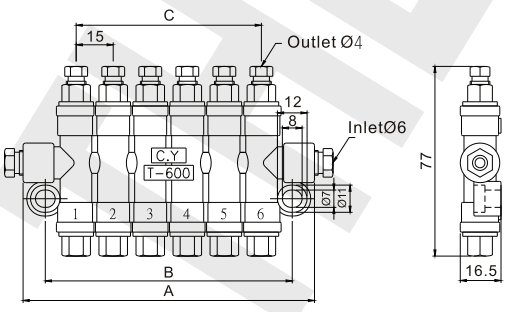


◆ **Order Code：**

CDB- 5 —— 1 1 1 1 1

Outlet Number	First Outlet Volume	Second Outlet Volume	Third Outlet Volume	Fourth Outlet Volume	Fifth Outlet Volume
1：1 Outlet	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc
2：2 Outlets	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc
3：3 Outlets	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc
5：5 Outlets	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc
	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc

Model	Outlet Num.	Inlet Bore	Outlet Bore	A (mm)	B (mm)	C (mm)	Discharge Volume	Operation Pressure Range	Weight (g)
T-200	2	M10xP1.0 Ø6	M8xP1.0 Ø4	58	40	15	0.1cc 0.2cc 0.3cc 0.4cc 0.5cc	8kgf/cm² to 30kgf/cm²	154
T-300	3			73	55	30			205
T-400	4			88	70	45			263
T-500	5			103	85	60			318
T-600	6			118	100	75			375



◆ **Order Code：**

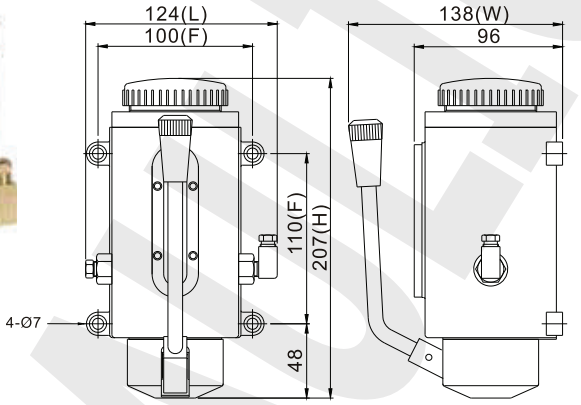
T－500 —— 1 2 3 4 5

Outlet Number	First Outlet Volume	Second Outlet Volume	Third Outlet Volume	Fourth Outlet Volume	Fifth Outlet Volume
200：2 Outlets	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc	1：0.1cc
300：3 Outlets	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc	2：0.2cc
400：4 Outlets	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc	3：0.3cc
500：5 Outlets	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc	4：0.4cc
600：6 Outlets	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc	5：0.5cc

CLA Type Hand-Pull Manual Lubricators

CLA-6

CLA-8



CLA-8 Type Standards Externals

◆Features

1.CLA type is divided by the volume of container CLA-6(350cc) and CLA-8(600cc).

2.Low cost, high practicality. It can be used in diverse machinery.

3.Easy to be operated by pushing the handle down for oil feeding.

4.Small volume and easy to install.

5.The unit is equipped with reverse stopper that prevents the back-flow of oil.

6.It has an oil outlet on left or right side of the unit. A dual outlet (left and right sides) is also available.

◆Application of Machines Equipment

1.This unit can work with the machines that do not need to feed oil at certain time.

2.It's suitable for various kinds of machine tools and automatic machinery.

Model	Max Volume	Max Pressure	Capacity	Discharge Bore	Discharge Bore No.	Fixed Hole Distance(mm)	Length (mm)	Width (mm)	Height (mm)	Oil Viscosity	Weight (kg)
CLA-6	8cc	15kgf/cm^2	350cc	Ø4	1	85,85mm	112	134	188	32-68cSt@40℃	1.23
					2						1.25
				Ø6	1						1.24
					2						1.27
CLA-8	8cc	15kgf/cm^2	600cc	Ø4	1	100,110mm	124	138	207		1.50
					2						1.52
				Ø6	1						1.50
					2						1.53

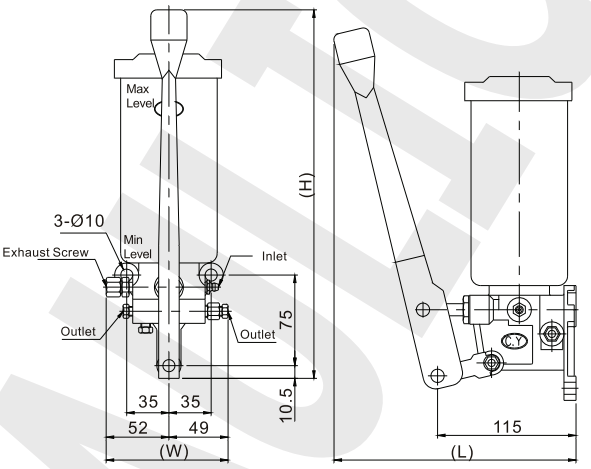
◆Order code：

CLA-6	R	H	1	※
Tank Capacity 6：350cc 8：600cc	L：Left Hand Outlet R：Right Hand Outlet D：Dual Outlet	Outlet Connector H：Elbow Adapter D：Straight Adapter B：Block	Discharge Bore 0：Ø4 1：Ø6	Special Request

CLHA Type Grease Manual Lubricator

CLHA-35

CLHA-20

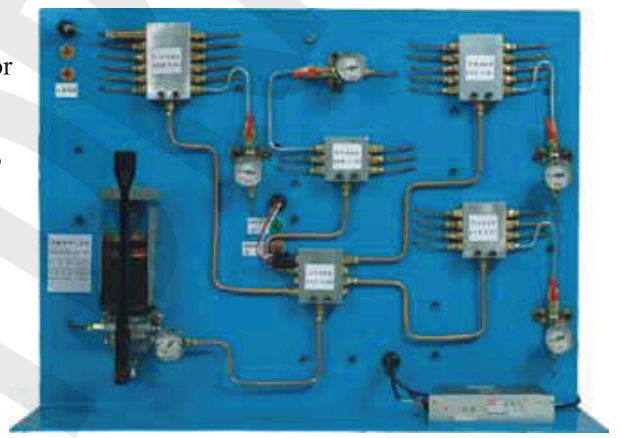


◆Features

1.CLHA type has good tight pressing iron, which can press grease out smoothly.
2.Low cost, and high practicality.
3.Easy to be operated by pushing the handle down for oil feeding.
4.Small size and easy for installation.
5.CLHA type is suitable for grease NLGI grades 0 to 000,and CLHP type is suitable for grease NLGI grades 0 to 2.
6.Recommend using a grease gun for filling with lubricant from grease inlet. It can avoid air or impurities dropping into the reservoir.
7.Fill the lubricator with grease to exhaust air before the distributors are mounted.

◆Application of Machines Equipment

1.It is suitable for the machinery that does not need to feed oil at certain time.
2.It usually works with press, woodworking or thermal treatment machinery.



The Piping of CLHA Type Grease Lubrication System

Model	Capacity Liters	Max Volume	Max Pressure	Discharge Bore	Viscosity	Fixed Hole Distance(mm)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
CLHA-10	300cc	2cc/stroke	100kgf/cm^2	Ø4 Ø6 Ø8 PT1/8	Grease NLGI grades 0 to 000	70	232	103	315	1.08
CLHA-20	600cc					70		103	315	1.14
CLHA-35	1000cc					70.75		106	345	2.20
CLHA-40	800cc					70		106	325	1.39
CLHA-50	2000cc					70.75		120	390	2.09

◆Order Code：

CLH A 20 R D 1 ※

Grease Manual Lubricator

Tank Capacity
10：300cc
20：600cc
35：1000cc
40：800cc
50：2000cc

Outlet
L：Left Hand Outlet
R：Right HandOutlet
D：Dual Outlet
T：Three Outlets
F：Four Outlets

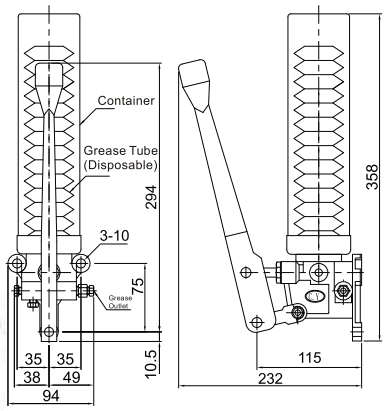
Outlet Connector
H：Elbow Adapter
D：Straight Adapter
B：Block

Discharge Bore
0：Ø4
1：Ø6
2：Ø4（With Pressure Gauge）
3：Ø6（With Pressure Gauge）
4：Ø8
5：Ø8（With Pressure Gauge）
6：PT1/8
7：PT1/8（With Pressure Gauge）

Special Request

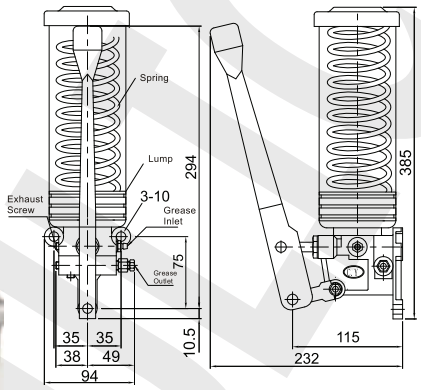
CLHA-25 Type Grease Tube, CLHP-40 Type Hard Spring Manual Lubricator

CLHA-25



CLHA-25 Type Standards Externals

CLHP-40



CLHP-40 Type Standards Externals

◆Features

1. CLHA-25 type works with disposable grease tube (400 cc) that is more convenient for cleaning and easy operating. The disposable grease tube is not included but can be purchased as optional.
2. Chen Ying manual grease type lubricator can easily be operated by pushing the handle down for grease feeding repeatedly.
3. Manual grease type lubricator is small and easy for installation.
4. CHLA-25 can work with disposable grease tube (400cc) or with iron reservoir as optional.
5. The standard grease tube thread of CLHA-25 is M15 x P2.5 with reservoir cover and thread M15 x P2.0 is also available on request.
6. CLHP-40 has a hard spring inside that is suitable for NLGI grades 000 to 2.
7. Recommend using a grease gun for filling with lubricant from grease inlet. It can avoid air or impurities dropping into the reservoir.

◆Application of Machines Equipment

1. It is suitable for the machinery that does not need to feed grease at certain time.
2. It usually works with press, wood working or thermal treatment machinery.

Model	Capacity	Max Volume	Max Pressure	Discharge Bore	Remark
CLHA-25	Grease Tube 400g	2cc/stroke	100kf/cm²	Ø4 Ø6 Ø8 PT1/8	Grease Tube Thread A : M15xP2.5 B : M15xP2.0
CLHP-40	650cc				Viscosity NLGI000~2

Model	Fixed Hole Distance(mm)	Length(mm)	Width(mm)	Height(mm)	Weight(kg)
CLHA-25	70mm	232	94	358	1.25
CLHP-40		232	94	325	1.35

◆Order Code：

CLHA — Grease Manual Lubricator

25 — Grease Tube
25：400g

R — Outlet
L：Left Hand Outlet
R：Right Hand Outlet
D：Dual Outlet
T：Three Outlets
F：Four Outlets

1 — Discharge Bore
0：Ø4
1：Ø6
2：Ø4（With Pressure Gauge）
3：Ø6（With Pressure Gauge）
4：Ø8
5：Ø8（With Pressure Gauge）
6：PT1/8
7：PT1/8（With Pressure Gauge）

※ —
T：Grease Tube Included
I：Iron Reservoir

◆Order Code：

CLHP — Grease Manual Lubricator
P：With Hard Spring
Viscosity NLGI 000~2

40 — Effective Capacity
40：650cc

R — Outlet
L：Left Hand Outlet
R：Right Hand Outlet
D：Dual Outlet
T：Three Outlets
F：Four Outlets

1 — Discharge Bore
0：Ø4
1：Ø6
2：Ø4（With Pressure Gauge）
3：Ø6（With Pressure Gauge）
4：Ø8
5：Ø8（With Pressure Gauge）
6：PT1/8
7：PT1/8（With Pressure Gauge）

※ — Special Request

Hydraulic - Pneumatic Sealing Elements Technical Catalogue

Resim *Drawing*	Alp Kod *Code*	Ürün Adı *Product Name*	Malzeme *Material*	Sertlik (Shore A) *Hardness*	Kullanım Alanı *Application*	Çalışma Basıncı (Bar) (Max) *Working Pressure*	Çalışma Sıcaklığı (°C) (Max) *Working Temperature*	Kayma Hızı (Max) *Sliding Speed*	Sayfa *Page*
HİDROLİK SIZDIRMAZLIK ELEMANLARI / *HYDRAULIC SEALING ELEMENTS*									
	A101	PİSTON BOĞAZ NUTRING *U-RING ROD PISTON*	NBR PU	90 92	PİSTON-BOĞAZ *PISTON-ROD*	160 400	-30+105 -30+100	0.5 0.5	36-55
	A102	PİSTON NUTRING *U-RING PISTON*	NBR PU	90 92	PİSTON *PISTON*	160 400	-30+105 -30+100	0.5 0.5	56-59
	A103	AĞIR HİZMET PİSTON KEÇESİ *HEAVY DUTY PISTON SEAL*	NBR PTFE+BRONZE POM	80 - -	PİSTON *PISTON*	400	-30+105	1.5	60-61
	A104	KOMPAKT SET *COMPACT SEAL*	NBR FABRIC NBR POM	80 - -	PİSTON *PISTON*	400	-30+105	0.5	62-63
	A105	KOMPAKT SET *COMPACT SEAL*	NBR TPE POM+CAM ELYAF *GLASS FILLED POM*	80 - -	PİSTON *PISTON*	400	-30+105	0.5	64-69
	A106	PİSTON KEÇESİ *PISTON SEAL*	PU NBR POM	98 80 -	PİSTON *PISTON*	400	-30+105	0.5	70-71
	A107	PİSTON BOĞAZ KEÇESİ *ROD PISTON SEAL*	NBR FABRIC NBR	80 -	PİSTON-BOĞAZ *PISTON-ROD*	250	-30+105	0.5	72-75
	A108	PİSTON NUTRING *U-RING PISTON*	PU POM	92 -	PİSTON *PISTON*	400	-30+100	0.5	76-77
	A109	KOMPAKT SET *COMPACT SEAL*	NBR TPE POM+CAM ELYAF *GLASS FILLED POM*	80 - -	PİSTON *PISTON*	700	-30+105	0.5	78-79
	A110	PİSTON KEÇESİ *PISTON SEAL*	NBR PU	80 98	PİSTON *PISTON*	400	-30+100	0.5	80-83
	A120	PACKING *V-PACK ROD*	NBR FABRIC NBR POM	90 - -	BOĞAZ *ROD*	400	-30+105	0.5	84-87
	A121	PACKING *V-PACK PISTON*	FABRIC NBR POM	- -	PİSTON *PISTON*	400	-30+105	0.5	88-89
	A122	PACKING *V-PACK ROD*	NBR FABRIC NBR POM	90 - -	BOĞAZ *ROD*	400	-30+105	0.5	90-91
	A123	PİSTON KEÇESİ *PISTON SEAL*	NBR PU	70 98	PİSTON *PISTON*	400	-30+100	0.5	92-93

Resim *Drawing*	Alp Kod *Code*	Ürün Adı *Product Name*	Malzeme *Material*	Sertlik (Shore A) *Hardness*	Kullanım Alanı *Application*	Çalışma Basıncı (Bar) (Max) *Working Pressure*	Çalışma Sıcaklığı (°C) (Max) *Working Temperature*	Kayma Hızı (Max) *Sliding Speed*	Sayfa *Page*
HİDROLİK SIZDIRMAZLIK ELEMANLARI / *HYDRAULIC SEALING ELEMENTS*									
	A124	PİSTON KEÇESİ *PISTON SEAL*	NBR SAC+YAY *METAL+SPRING*	90 - 	PİSTON *PISTON*	60	-30+105	0.5	94-95
	A127	AĞIR HİZMET PİSTON KEÇESİ *HEAVY DUTY PISTON SEAL Z CUTTED*	NBR PA+CAM ELYAF *GLASS FILLED PA*	80 -	PİSTON *PISTON*	800	-30+105	1.0	96-99
	A151	BOĞAZ NUTRING *U-RING ROD*	NBR PU	90 92	BOĞAZ *ROD*	160 400	-30+105 -30+100	0.5 0.5	100-105
	A152	AĞIR HİZMET BOĞAZ KEÇESİ *HEAVY DUTY U-RING ROD*	PU POM NBR	92 - 70	BOĞAZ *ROD*	600	-30+100	0.5	106-109
	A153	BOĞAZ NUTRING *U-RING ROD*	PU POM	92 -	BOĞAZ *ROD*	400	-30+100	0.5	110-113
	A154	BOĞAZ NUTRING *U-RING ROD*	PU	92	BOĞAZ *ROD*	400	-30+100	0.5	114-123
	A155	BOĞAZ KEÇESİ *ROD SEAL*	NBR TPE POM	80 - -	BOĞAZ *ROD*	700	-30+105	0.5	124-125
	A156	BOĞAZ KEÇESİ *ROD SEAL*	NBR FABRIC NBR POM	80 - -	BOĞAZ *ROD*	400	-30+105	0.5	126-131
	A157	BOĞAZ NUTRING *U-RING ROD*	PU	92	BOĞAZ *ROD*	400	-30+100	0.5	132-135
	A159	BOĞAZ KEÇESİ *ROD SEAL*	PU NBR	98 70	BOĞAZ *ROD*	500	-30+105	0.5	136-139
	A161	YÜKSEK PERFORMANSLI BOĞAZ NUTRING *HIGH PERFORMANCE U-RING ROD*	PU	95	BOĞAZ *ROD*	400	-35+110	0.5	140-145
	A162	YÜKSEK PERFORMANSLI AĞIR HİZMET BOĞAZ KEÇESİ *HIGH PERFORMANCE HEAVY DUTY U-RING ROD*	PU POM NBR	95 - 70	BOĞAZ *ROD*	600	-30+100	0.5	146-149
	A163	YÜKSEK PERFORMANSLI BOĞAZ NUTRING *HIGH PERFORMANCE U-RING ROD*	PU POM	95 -	BOĞAZ *ROD*	400	-30+100	0.5	150-153
	A164	YÜKSEK PERFORMANSLI BOĞAZ NUTRING *HIGH PERFORMANCE U-RING ROD*	PU	95	BOĞAZ *ROD*	400	-35+110	0.5	154-163
	A167	YÜKSEK PERFORMANSLI BOĞAZ NUTRING *HIGH PERFORMANCE U-RING ROD*	PU	95	BOĞAZ *ROD*	400	-35+110	0.5	164-167

Resim *Drawing*	Alp Kod *Code*	Ürün Adı *Product Name*	Malzeme *Material*	Sertlik (Shore A) *Hardness*	Kullanım Alanı *Application*	Çalışma Basıncı (Bar) (Max) *Working Pressure*	Çalışma Sıcaklığı (°C) (Max) *Working Temperature*	Kayma Hızı (Max) *Sliding Speed*	Sayfa *Page*
HİDROLİK SIZDIRMAZLIK ELEMANLARI / *HYDRAULIC SEALING ELEMENTS*									
	A168	YÜKSEK PERFORMANSLI PİSTON NUTRING *HIGH PERFORMANCE U-RING PISTON*	PU POM	95 -	PİSTON *PISTON*	400	-30+100	0.5	168-169
	A171	YÜKSEK PERFORMANSLI PİSTON BOĞAZ NUTRING *HIGH PERFORMANCE U-RING ROD PISTON*	PU	95	PİSTON-BOĞAZ *PISTON-ROD*	400	-35+110	0.5	170-189
	A172	YÜKSEK PERFORMANSLI PİSTON NUTRING *HIGH PERFORMANCE U-RING PISTON*	PU	95	PİSTON *PISTON*	400	-35+110	0.5	190-193
	A181	BOĞAZ NUTRING *U-RING ROD*	NBR	90	BOĞAZ *ROD*	160	-30+105	0.5	194-195
	A209	ÖN BASINÇ RİNGİ *BUFFER RING*	PU POM	92 -	BOĞAZ *ROD*	400	-30+100	0.5	196-197
	A269	YÜKSEK PERFORMANSLI ÖN BASINÇ RİNGİ *HIGH PERFORMANCE BUFFER RING*	PU POM	95 -	BOĞAZ *ROD*	400	-30+100	0.5	198-199
TOZ KEÇELERİ / *WIPERS*									
	A201	TOZ KEÇESİ *WIPER*	PU	92	BOĞAZ *ROD*	–	-30+100	1.0	202-203
	A202	TOZ KEÇESİ *WIPER*	NBR PU	90 92	BOĞAZ *ROD*	–	-30+105 -30+100	1.0	204-211
	A204	TOZ KEÇESİ *WIPER*	NBR PU	90 92	BOĞAZ *ROD*	–	-30+105 -30+100	1.0	212-215
	A205	NUTRING DUDAKLI TOZ KEÇESİ *DOUBLE WIPER*	NBR PU	90 92	BOĞAZ *ROD*	–	-30+105 -30+100	1.0	216-219
	A206	AĞIR HİZMET TOZ KEÇESİ *HEAVY DUTY WIPER*	TPE	–	BOĞAZ *ROD*	–	-40+120	1.0	220-227
	A208	NUTRING DUDAKLI TOZ KEÇESİ *DOUBLE WIPER*	NBR PU	90 92	BOĞAZ *ROD*	–	-30+105 -30+100	1.0	228-231
	A211	AĞIR HİZMET KAZIYICI KEÇE *HEAVY DUTY SCRAPER SEAL*	PA	–	BOĞAZ *ROD*	–	-40+100	1.0	232-233
	A262	YÜKSEK PERFORMANSLI TOZ KEÇESİ *HIGH PERFORMANCE WIPER*	PU	95	BOĞAZ *ROD*	–	-35+110	1.0	234-241
	A268	YÜKSEK PERFORMANSLI NUTRING DUDAKLI TOZ KEÇESİ *HIGH PERFORMANCE DOUBLE WIPER*	PU	95	BOĞAZ *ROD*	–	-35+110	1.0	242-245

Resim *Drawing*	Alp Kod *Code*	Ürün Adı *Product Name*	Malzeme *Material*	Sertlik (Shore A) *Hardness*	Kullanım Alanı *Application*	Çalışma Basıncı (Bar) (Max) *Working Pressure*	Çalışma Sıcaklığı (°C) (Max) *Working Temperature*	Kayma Hızı (Max) *Sliding Speed*	Sayfa *Page*
YATAKLAMA ELEMANLARI / GUIDE ELEMENTS									
	A251	PİSTON BOĞAZ YATAKLAMA *PISTON ROD GUIDE RING*	POM+CAM ELYAF *GLASS FILLED POM*	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-40+110	1.0	248-255
	A255	POLYESTER RESİN YATAKLAMA *POLYESTER RESIN GUIDE RING*	POLYESTER RESIN	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-30+120	1.0	256-259
	A256	FENOLİK RESİN YATAKLAMA *PHENOLIC RESIN GUIDE RING*	PHENOLIC RESIN	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-30+120	1.0	260-263
	ABT	BRONZLU TEFLON BANT YATAKLAMA *BRONZE-PTFE GUIDE STRIP*	PTFE+BRONZE	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-60+200	15	264-267
	AKT	KARBONLU TEFLON BANT YATAKLAMA *CARBON-PTFE GUIDE STRIP*	PTFE+CARBON	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-60+200	15	268-269
	APR	POLYESTER RESİN BANT YATAKLAMA *POLYESTER RESIN GUIDE STRIP*	POLYESTER RESIN	–	PİSTON-BOĞAZ *PISTON-ROD*	–	-30+120	1.0	270-271
PTFE SIZDIRMAZLIK ELEMANLARI / PTFE SEALING ELEMENTS									
	A301	PİSTON KEÇESİ *PISTON SEAL*	PTFE+BRONZE NBR	- 70	PİSTON *PISTON*	400	-30+105	5.0	274-279
	A302	PİSTON KEÇESİ *SINGLE ACTING PISTON SEAL*	PTFE+BRONZE NBR	- 70	PİSTON *PISTON*	400	-30+105	5.0	280-283
	A303	ANTİ KONTAMİNASYON PİSTON KEÇESİ *ANTI CONTAMINATION PISTON SEAL*	PTFE+CARBON	-	PİSTON BOĞAZ *PISTON ROD*	-	-45+220	5.0	284-287
	A304	ROTARY ROD KEÇESİ *ROTARY ROD SEAL*	PTFE+BRONZE NBR	- 70	BOĞAZ *ROD*	300	-30+105	5.0	288-291
	A305	TOZ KEÇESİ *WIPER*	PTFE+BRONZE NBR	70	BOĞAZ *ROD*	–	-30+105	5.0	292-295
	A306	PİSTON KEÇESİ *PISTON SEAL*	PTFE+BRONZE NBR	- 70	PİSTON *PISTON*	400	-30+105	2.0	296-299
	A307	ROTARY PİSTON KEÇESİ *ROTARY PISTON SEAL*	PTFE+BRONZE NBR	- 70	PİSTON *PISTON*	300	-30+105	5.0	300-303
	A311	BOĞAZ KEÇESİ *ROD SEAL*	PTFE+BRONZE NBR	- 70	BOĞAZ *ROD*	400	-30+105	5.0	304-309

Resim *Drawing*	Alp Kod *Code*	Ürün Adı *Product Name*	Malzeme *Material*	Sertlik (Shore A) *Hardness*	Kullanım Alanı *Application*	Çalışma Basıncı (Bar) (Max) *Working Pressure*	Çalışma Sıcaklığı (°C) (Max) *Working Temperature*	Kayma Hızı (Max) *Sliding Speed*	Sayfa *Page*
STATİK SIZDIRMAZLIK ELEMANLARI / STATIC SEALING ELEMENTS									
	A402	FLANŞ KEÇESİ *FLANGE SEAL*	PU	92	-	630	-30+100	_	312-313
	A403	KAPAK KEÇESİ *COVER SEAL*	PU	95	-	630	-35+110	_	314-315
	A404	KAPAK KEÇESİ *COVER SEAL*	PU	95	-	630	-35+110	_	316-319
	A405	STATİK SIZDIRMAZLIK KEÇESİ *STATIC SEAL*	PU	92	-	500	-30+100	_	320-321
PNÖMATİK SIZDIRMAZLIK ELEMANLARI / PNEUMATIC SEALING ELEMENTS									
	A801	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR SAC *NBR* *SHEET METAL*	80 -	PİSTON *PISTON*	16	-30+105	1.0	324-327
	A802	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR PU	80 85	PİSTON *PISTON*	12 16	-30+105 -30+80	1.0 1.0	328-329
	A803	PNÖMATİK PİSTON KEÇESİ *SHORT STROKE PNEUMATIC PISTON SEAL*	NBR	70	PİSTON *PISTON*	12	-30+105	1.0	330-331
	A804	TEK ETKİLİ PNÖMATİK PİSTON KEÇESİ *SINGLE ACTING PNEUMATIC PISTON SEAL*	NBR ALUMINUM	70	PİSTON *PISTON*	12	-30+105	1.0	332-333
	A805	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR ALUMINUM	70	PİSTON *PISTON*	12	-30+105	1.0	334-335
	A807	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR PU	80 85	PİSTON *PISTON*	12 16	-30+105 -30 + 80	1.0 1.0	336-337
	A808	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR	70	PİSTON *PISTON*	12	-30+105	1.0	338-339
	A810	PNÖMATİK PİSTON KEÇESİ *PNEUMATIC PISTON SEAL*	NBR	70	PİSTON *PISTON*	12	-30+105	1.0	340-341
	A852	PNÖMATİK TOZ BOĞAZ KEÇESİ *PNEUMATIC WIPER ROD SEAL*	PU	92	BOĞAZ *ROD*	16	-30+80	1.0	342-343
	A853	PNÖMATİK TOZ BOĞAZ KEÇESİ *PNEUMATIC WIPER ROD SEAL*	NBR PU	90 92	BOĞAZ *ROD*	12 16	-30+105 -30+80	1.0 1.0	344-345
	A854	AĞIR HİZMET PNÖMATİK TOZ BOĞAZ KEÇESİ *HEAVY DUTY PNEUMATIC ROD WIPER*	NBR/TPE PU/TPE	80 92	BOĞAZ *ROD*	16 16	-30+105 -30+80	1.0 1.0	346-347
	A855	PNÖMATİK YASTIKLAMA KEÇESİ *PNEUMATIC CUSHIONING SEAL*	PU NBR	92 90	BOĞAZ *ROD*	16 12	-30+80 -30+105	1.0 1.0	348-349

AS568 A Standard O-Ring

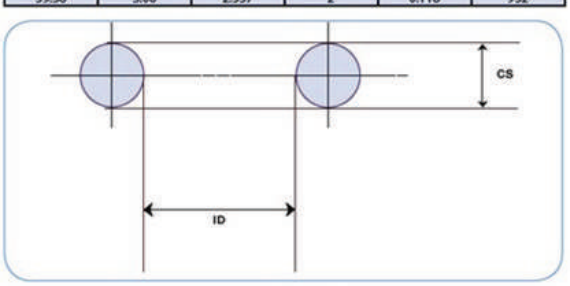
Metric (mm)		Inch			AS 568 A
ID	CS	ID	OD	CS	
2.90	1.78	1/8	1/4	1/16	006
3.68	1.78	5/32	9/32	1/16	007
4.47	1.78	3/16	5/16	1/16	008
5.28	1.78	7/32	11/32	1/16	009
6.07	1.78	1/4	3/8	1/16	010
7.65	1.78	5/16	7/16	1/16	011
9.25	1.78	3/8	1/2	1/16	012
10.82	1.78	7/16	9/16	1/16	013
12.42	1.78	1/2	5/8	1/16	014
14.00	1.78	9/16	11/16	1/16	015
15.60	1.78	5/8	3/4	1/16	016
17.17	1.78	11/16	13/16	1/16	017
18.77	1.78	3/4	7/8	1/16	018
20.35	1.78	13/16	15/16	1/16	019
21.95	1.78	7/8	1	1/16	020
23.52	1.78	15/16	1 1/16	1/16	021
25.12	1.78	1	1 1/8	1/16	022
26.70	1.78	1 1/16	1 3/16	1/16	023
28.30	1.78	1 1/8	1 1/4	1/16	024
29.87	1.78	1 3/16	1 5/16	1/16	025
31.47	1.78	1 1/4	1 3/8	1/16	026
33.05	1.78	1 5/16	1 7/16	1/16	027
34.65	1.78	1 3/8	1 1/2	1/16	028
37.82	1.78	1 1/2	1 5/8	1/16	029
41.00	1.78	1 5/8	1 3/4	1/16	030
44.17	1.78	1 3/4	1 7/8	1/16	031
47.35	1.78	1 7/8	2	1/16	032
50.52	1.78	2	2 1/8	1/16	033
53.70	1.78	2 1/8	2 1/4	1/16	034
56.87	1.78	2 1/4	2 3/8	1/16	035
60.05	1.78	2 3/8	2 1/2	1/16	036
63.22	1.78	2 1/2	2 5/8	1/16	037
66.40	1.78	2 5/8	2 3/4	1/16	038
69.57	1.78	2 3/4	2 7/8	1/16	039
72.75	1.78	2 7/8	3	1/16	040
75.92	1.78	3	3 1/8	1/16	041
82.27	1.78	3 1/4	3 3/8	1/16	042
88.62	1.78	3 1/2	3 5/8	1/16	043
94.97	1.78	3 3/4	3 7/8	1/16	044
101.32	1.78	4	4 1/8	1/16	045
107.67	1.78	4 1/4	4 3/8	1/16	046
114.02	1.78	4 1/2	4 5/8	1/16	047
120.37	1.78	4 3/4	4 7/8	1/16	048
126.72	1.78	5	5 1/8	1/16	049
133.07	1.78	5 1/4	5 3/8	1/16	050
1.25	2.62	1/16	1/4	3/32	102
2.06	2.62	3/32	9/32	3/32	103
2.84	2.62	1/8	5/16	3/32	104
3.63	2.62	5/32	11/32	3/32	105
4.42	2.62	3/16	3/8	3/32	106
5.23	2.62	7/32	13/32	3/32	107
6.02	2.62	1/4	7/16	3/32	108
7.60	2.62	5/16	1/2	3/32	109
9.20	2.62	3/8	9/16	3/32	110
10.77	2.62	7/16	5/8	3/32	111
12.37	2.62	1/2	11/16	3/32	112
13.95	2.62	9/16	3/4	3/32	113
15.55	2.62	5/8	13/16	3/32	114
17.12	2.62	11/16	7/8	3/32	115
18.72	2.62	3/4	15/16	3/32	116
20.29	2.62	13/16	1	3/32	117
21.90	2.62	7/8	1 1/16	3/32	118
23.47	2.62	15/16	1 1/8	3/32	119
25.07	2.62	1	1 3/16	3/32	120
26.64	2.62	1 1/16	1 1/4	3/32	121
28.24	2.62	1 1/8	1 5/16	3/32	122
29.82	2.62	1 3/16	1 3/8	3/32	123
31.42	2.62	1 1/4	1 7/16	3/32	124
33.00	2.62	1 5/16	1 1/2	3/32	125
34.60	2.62	1 3/8	1 9/16	3/32	126
36.17	2.62	1 7/16	1 5/8	3/32	127
37.77	2.62	1 1/2	1 11/16	3/32	128
39.34	2.62	1 9/16	1 3/4	3/32	129
40.95	2.62	1 5/8	1 13/16	3/32	130
42.52	2.62	1 11/16	1 7/8	3/32	131
44.12	2.62	1 3/4	1 15/16	3/32	132
45.70	2.62	1 13/16	2	3/32	133
47.30	2.62	1 7/8	2 1/16	3/32	134
48.90	2.62	1 15/16	2 1/8	3/32	135
50.47	2.62	2	2 3/16	3/32	136
52.07	2.62	2 1/16	2 1/4	3/32	137
53.64	2.62	2 1/8	2 5/16	3/32	138
55.25	2.62	2 3/16	2 3/8	3/32	139
56.82	2.62	2 1/4	2 7/16	3/32	140
58.42	2.62	2 5/16	2 1/2	3/32	141
59.99	2.62	2 3/8	2 9/16	3/32	142
61.60	2.62	2 7/16	2 5/8	3/32	143
63.17	2.62	2 1/2	2 11/16	3/32	144
64.77	2.62	2 9/16	2 3/4	3/32	145
66.34	2.62	2 5/8	2 13/16	3/32	146
67.95	2.62	2 11/16	2 7/8	3/32	147
69.52	2.62	2 3/4	2 15/16	3/32	148
71.12	2.62	2 13/16	3	3/32	149
72.70	2.62	2 7/8	3 1/16	3/32	150
75.87	2.62	3	3 3/16	3/32	151
82.22	2.62	3 1/4	3 7/16	3/32	152
88.57	2.62	3 1/2	3 11/16	3/32	153
94.92	2.62	3 3/4	3 15/16	3/32	154
101.27	2.62	4	4 3/16	3/32	155
107.62	2.62	4 1/4	4 7/16	3/32	156

Metric (mm)		Inch			AS 568 A
ID	CS	ID	OD	CS	
113.97	2.62	4 1/2	4 11/16	3/32	157
120.32	2.62	4 3/4	4 15/16	3/32	158
126.67	2.62	5	5 3/16	3/32	159
133.02	2.62	5 1/4	5 7/16	3/32	160
139.37	2.62	5 1/2	5 11/16	3/32	161
145.72	2.62	5 3/4	5 15/16	3/32	162
152.07	2.62	6	6 3/16	3/32	163
158.42	2.62	6 1/4	6 7/16	3/32	164
164.77	2.62	6 1/2	6 11/16	3/32	165
171.12	2.62	6 3/4	6 15/16	3/32	166
177.47	2.62	7	7 3/16	3/32	167
183.82	2.62	7 1/4	7 7/16	3/32	168
190.17	2.62	7 1/2	7 11/16	3/32	169
196.52	2.62	7 3/4	7 15/16	3/32	170
202.87	2.62	8	8 3/16	3/32	171
209.22	2.62	8 1/4	8 7/16	3/32	172
215.57	2.62	8 1/2	8 11/16	3/32	173
221.92	2.62	8 3/4	8 15/16	3/32	174
228.27	2.62	9	9 3/16	3/32	175
234.62	2.62	9 1/4	9 7/16	3/32	176
240.97	2.62	9 1/2	9 11/16	3/32	177
247.32	2.62	9 3/4	9 15/16	3/32	178
4.34	3.53	3/16	7/16	1/8	201
5.94	3.53	1/4	1/2	1/8	202
7.52	3.53	5/16	9/16	1/8	203
9.12	3.53	3/8	5/8	1/8	204
10.69	3.53	7/16	11/16	1/8	205
12.29	3.53	1/2	3/4	1/8	206
13.87	3.53	9/16	13/16	1/8	207
15.47	3.53	5/8	7/8	1/8	208
17.04	3.53	11/16	15/16	1/8	209
18.64	3.53	3/4	1	1/8	210
20.22	3.53	13/16	1 1/16	1/8	211
21.82	3.53	7/8	1 1/8	1/8	212
23.39	3.53	15/16	1 3/16	1/8	213
24.99	3.53	1	1 1/4	1/8	214
26.57	3.53	1 1/16	1 5/16	1/8	215
28.17	3.53	1 1/8	1 3/8	1/8	216
29.74	3.53	1 3/16	1 7/16	1/8	217
31.34	2.62	1 1/4	1 1/2	1/8	218
32.92	3.53	1 5/16	1 9/16	1/8	219
34.52	3.53	1 3/8	1 5/8	1/8	220
36.09	3.53	1 7/16	1 11/16	1/8	221
37.69	3.53	1 1/2	1 3/4	1/8	222
40.87	3.53	1 5/8	1 7/8	1/8	223
44.04	3.53	1 3/4	2	1/8	224
47.22	3.53	1 7/8	2 1/8	1/8	225
50.39	3.53	2	2 1/4	1/8	226
53.57	3.53	2 1/8	2 3/8	1/8	227
56.74	3.53	2 1/4	2 1/2	1/8	228
59.92	3.53	2 3/8	2 5/8	1/8	229
63.09	3.53	2 1/2	2 3/4	1/8	230
66.27	3.53	2 5/8	2 7/8	1/8	231
69.44	3.53	2 3/4	3	1/8	232
72.62	3.53	2 7/8	3 1/8	1/8	233
75.80	3.53	3	3 1/4	1/8	234
78.97	3.53	3 1/8	3 3/8	1/8	235
82.14	3.53	3 1/4	3 1/2	1/8	236
85.32	3.53	3 3/8	3 5/8	1/8	237
88.39	3.53	3 1/2	3 3/4	1/8	238
91.67	3.53	3 5/8	3 7/8	1/8	239
94.84	3.53	3 3/4	4	1/8	240
98.02	3.53	3 7/8	4 1/8	1/8	241
101.20	3.53	4	4 1/4	1/8	242
104.37	3.53	4 1/8	4 3/8	1/8	243
107.54	3.53	4 1/4	4 1/2	1/8	244
110.72	3.53	4 3/8	4 5/8	1/8	245
113.89	3.53	4 1/2	4 3/4	1/8	246
117.07	3.53	4 5/8	4 7/8	1/8	247
120.25	3.53	4 3/4	5	1/8	248
123.42	3.53	4 7/8	5 1/8	1/8	249
126.60	3.53	5	5 1/4	1/8	250
129.77	3.53	5 1/8	5 3/8	1/8	251
132.95	3.53	5 1/4	5 1/2	1/8	252
136.12	3.53	5 3/8	5 5/8	1/8	253
139.30	3.53	5 1/2	5 3/4	1/8	254
142.47	3.53	5 5/8	5 7/8	1/8	255
145.64	3.53	5 3/4	6	1/8	256
148.82	3.53	5 7/8	6 1/8	1/8	257
152.00	3.53	6	6 1/4	1/8	258
158.34	3.53	6 1/4	6 1/2	1/8	259
164.70	3.53	6 1/2	6 3/4	1/8	260
171.04	3.53	6 3/4	7	1/8	261
177.40	3.53	7	7 1/4	1/8	262
183.74	3.53	7 1/4	7 1/2	1/8	263
190.10	3.53	7 1/2	7 3/4	1/8	264
196.44	3.53	7 3/4	8	1/8	265
202.80	3.53	8	8 1/4	1/8	266
209.14	3.53	8 1/4	8 1/2	1/8	267
215.50	3.53	8 1/2	8 3/4	1/8	268
221.84	3.53	8 3/4	9	1/8	269
228.20	3.53	9	9 1/4	1/8	270
234.55	3.53	9 1/4	9 1/2	1/8	271
240.90	3.53	9 1/2	9 3/4	1/8	272
247.25	3.53	9 3/4	10	1/8	273
253.60	3.53	10	10 1/4	1/8	274
266.29	3.53	10 1/2	10 3/4	1/8	275
278.99	3.53	11	11 1/4	1/8	276
291.69	3.53	11 1/2	11 3/4	1/8	277
304.39	3.53	12	12 1/4	1/8	278

AS568 A Standard O-Ring

Metric (mm)		Inch			AS 568 A
ID	CS	ID	OD	CS	
329.79	3.53	13	13 1/4	1/8	279
355.19	3.53	14	14 1/4	1/8	280
380.59	3.53	15	15 1/4	1/8	281
405.26	3.53	16	16 1/4	1/8	282
430.66	3.53	17	17 1/4	1/8	283
456.06	3.53	18	18 1/4	1/8	284
10.47	5.33	7/16	13/16	3/16	309
12.07	5.33	1/2	7/8	3/16	310
13.64	5.33	9/16	15/16	3/16	311
15.24	5.33	5/8	1	3/16	312
16.82	5.33	11/16	1 1/16	3/16	313
18.42	5.33	3/4	1 1/8	3/16	314
19.99	5.33	13/16	1 3/16	3/16	315
21.99	5.33	7/8	1 1/4	3/16	316
23.16	5.33	15/16	1 5/16	3/16	317
24.72	5.33	1	1 3/8	3/16	318
26.34	5.33	1 1/16	1 7/16	3/16	319
27.94	5.33	1 1/8	1 1/2	3/16	320
29.52	5.33	1 3/16	1 9/16	3/16	321
31.12	5.33	1 1/4	1 5/8	3/16	322
32.69	5.33	1 5/16	1 11/16	3/16	323
34.29	5.33	1 3/8	1 3/4	3/16	324
37.47	5.33	1 1/2	1 7/8	3/16	325
40.64	5.33	1 5/8	2	3/16	326
43.82	5.33	1 3/4	2 1/8	3/16	327
46.99	5.33	1 7/8	2 1/4	3/16	328
50.17	5.33	2	2 3/8	3/16	329
53.34	5.33	2 1/8	2 1/2	3/16	330
56.52	5.33	2 1/4	2 5/8	3/16	331
59.69	5.33	2 3/8	2 3/4	3/16	332
62.87	5.33	2 1/2	2 7/8	3/16	333
66.04	5.33	2 5/8	3	3/16	334
69.22	5.33	2 3/4	3 1/8	3/16	335
72.39	5.33	2 7/8	3 1/4	3/16	336
75.57	5.33	3	3 3/8	3/16	337
78.74	5.33	3 1/8	3 1/2	3/16	338
81.92	5.33	3 1/4	3 5/8	3/16	339
85.09	5.33	3 3/8	3 3/4	3/16	340
88.27	5.33	3 1/2	3 7/8	3/16	341
91.44	5.33	3 5/8	4	3/16	342
94.62	5.33	3 3/4	4 1/8	3/16	343
97.79	5.33	3 7/8	4 1/4	3/16	344
100.97	5.33	4	4 3/8	3/16	345
104.14	5.33	4 1/8	4 1/2	3/16	346
107.32	5.33	4 1/4	4 5/8	3/16	347
110.49	5.33	4 3/8	4 3/4	3/16	348
113.67	5.33	4 1/2	4 7/8	3/16	349
116.84	5.33	4 5/8	5	3/16	350
120.02	5.33	4 3/4	5 1/8	3/16	351
123.19	5.33	4 7/8	5 1/4	3/16	352
126.37	5.33	5	5 3/8	3/16	353
129.54	5.33	5 1/8	5 1/2	3/16	354
132.72	5.33	5 1/4	5 5/8	3/16	355
135.89	5.33	5 3/8	5 3/4	3/16	356
139.07	5.33	5 1/2	5 7/8	3/16	357
142.24	5.33	5 5/8	6	3/16	358
145.42	5.33	5 3/4	6 1/8	3/16	359
148.59	5.33	5 7/8	6 1/4	3/16	360
151.77	5.33	6	6 3/8	3/16	361
158.12	5.33	6 1/4	6 5/8	3/16	362
164.47	3.53	6 1/2	6 7/8	3/16	363
170.82	5.33	6 3/4	7 1/8	3/16	364
177.17	5.33	7	7 3/8	3/16	365
183.52	5.33	7 1/8	7 1/2	3/16	366
189.87	5.33	7 1/4	7 5/8	3/16	367
196.22	5.33	7 3/4	8 1/8	3/16	368
202.57	5.33	8	8 3/8	3/16	369
208.92	5.33	8 1/4	8 5/8	3/16	370
215.27	5.33	8 1/2	8 7/8	3/16	371
221.62	5.33	8 3/4	9 1/8	3/16	372
227.97	5.33	9	9 3/8	3/16	373
234.32	5.33	9 1/4	9 5/8	3/16	374
240.67	5.33	9 1/2	9 7/8	3/16	375
247.02	5.33	9 3/4	10 1/8	3/16	376
253.37	5.33	10	10 3/8	3/16	377
266.07	5.33	10 1/2	10 7/8	3/16	378
278.77	5.33	11	11 3/8	3/16	379
291.47	5.33	11 1/2	11 7/8	3/16	380
304.17	5.33	12	12 3/8	3/16	381
329.57	5.33	13	13 3/8	3/16	382
354.97	5.33	14	14 3/8	3/16	383
380.37	5.33	15	15 3/8	3/16	384
405.26	5.33	16	16 3/8	3/16	385
430.66	5.33	17	17 3/8	3/16	386
456.06	5.33	18	18 3/8	3/16	387
481.38	5.33	19	19 3/8	3/16	388
506.78	5.33	20	20 3/8	3/16	389
532.18	5.33	21	21 3/8	3/16	390
557.58	5.33	22	22 3/8	3/16	391
582.68	5.33	23	23 3/8	3/16	392
608.08	5.33	24	24 3/8	3/16	393
633.48	5.33	25	25 3/8	3/16	394
658.88	5.33	26	26 3/8	3/16	395
113.67	7.00	4 1/2	5	1/4	425
114.70	7.00				425A
116.84	7.00	4 5/8	5 1/8	1/4	426
120.02	7.00	4 3/4	5 1/4	1/4	427
123.19	7.00	4 7/8	5 3/8	1/4	428
124.60	7.00				428A

Metric (mm)		Inch			AS 568 A
ID	CS	ID	OD	CS	
126.37	7.00	5	5 1/2	1/4	429
129.54	7.00	5 1/8	5 5/8	1/4	430
132.72	7.00	5 1/4	5 3/4	1/4	431
135.89	7.00	5 3/8	5 7/8	1/4	432
139.07	7.00	5 1/2	6	1/4	433
142.24	7.00	5 5/8	6 1/8	1/4	434
145.42	7.00	5 3/4	6 1/4	1/4	435
148.59	7.00	5 7/8	6 3/8	1/4	436
151.77	7.00	6	6 1/2	1/4	437
155.60	7.00				437A
158.12	7.00	6 1/4	6 3/4	1/4	438
161.90	7.00				438A
164.47	7.00	6 1/2	7	1/4	439
170.82	7.00	6 3/4	7 1/4	1/4	440
174.60	7.00				440A
177.17	7.00	7	7 1/2	1/4	441
181.00	7.00				441A
183.52	7.00	7 1/4	7 3/4	1/4	442
187.30	7.00				442A
189.87	7.00	7 1/2	8	1/4	443
192.00	7.00				443A
196.22	7.00	7 3/4	8 1/4	1/4	444
200.00	7.00				444A
202.57	7.00	8	8 1/2	1/4	445
208.92	7.00				445A
215.27	7.00	8 1/2	9	1/4	446
221.62	7.00				446A
227.97	7.00	9	9 1/2	1/4	447
234.32	7.00				447A
240.67	7.00	9 1/2	10	1/4	448
247.00	7.00				448A
253.37	7.00	10	10 1/2	1/4	449
259.70	7.00				449A
266.07	7.00	10 1/2	11	1/4	450
272.40	7.00				450A
278.77	7.00	11	11 1/2	1/4	451
285.10	7.00				451A
291.47	7.00	11 1/2	12	1/4	452
297.80	7.00				452A
304.17	7.00	12	12 1/2	1/4	453
310.50	7.00				453A
316.87	7.00	12 1/2	13	1/4	454
329.57	7.00	13	13 1/2	1/4	455
342.27	7.00	13 1/2	14	1/4	456
354.97	7.00	14	14 1/2	1/4	457
367.67	7.00	14 1/2	15	1/4	458
380.37	7.00	15	15 1/2	1/4	459
387.00	7.00				459A
393.07	7.00	15 1/2	16	1/4	460
405.26	7.00	16	16 1/2	1/4	461
417.96	7.00	16 1/2	17	1/4	462
430.66	7.00	17	17 1/2	1/4	463
443.36	7.00	17 1/2	18	1/4	464
456.06	7.00	18	18 1/2	1/4	465
468.76	7.00	18 1/2	19	1/4	466
481.46	7.00	19	19 1/2	1/4	467
494.16	7.00	19 1/2	20	1/4	468
506.86	7.00	20	20 1/2	1/4	469
532.26	7.00	21	21 1/2	1/4	470
557.66	7.00	22	22 1/2	1/4	471
582.68	7.00	23	23 1/2	1/4	472
608.08	7.00	24	24 1/2	1/4	473
633.48	7.00	25	25 1/2	1/4	474
658.88	7.00	26	26 1/2	1/4	475
4.70	1.42	0.185	3/32	0.056	901
6.07	1.63	0.239	1/8	0.064	902
7.65	1.63	0.301	3/16	0.064	903
8.92	1.83	0.351	1/4	0.072	904
10.72	1.83	0.414	5/16	0.072	905
11.89	1.98	0.468	3/8	0.078	906
13.46	2.08	0.530	7/16	0.082	907
16.36	2.21	0.644	1/2	0.087	908
17.93	2.46	0.706	9/16	0.097	909
19.18	2.46	0.755	5/8	0.097	910
21.92	2.95	0.863	11/16	0.116	911
23.47	2.95	0.924	3/4	0.116	912
25.04	2.95	0.986	13/16	0.116	913
26.61	2.95	1.047	7/8	0.116	914
29.74	2.95	1.171	1	0.116	916
34.42	2.95	1.355	1 1/8	0.116	918
37.47	3.00	1.475	1 1/4	0.118	920
43.69	3.00	1.720	1 1/2	0.118	924
53.09	3.00	2.090	1 3/4	0.118	928
59.36	3.00	2.337	2	0.118	932



Japanese Series

Japanese G-Series

ID (mm)	CS (mm)	JIS B 2401
24.4	3.1	G-25
29.4	3.1	G-30
34.4	3.1	G-35
39.4	3.1	G-40
44.4	3.1	G-45
49.4	3.1	G-50
54.4	3.1	G-55
59.4	3.1	G-60
64.4	3.1	G-65
69.4	3.1	G-70
74.5	3.1	G-75
79.4	3.1	G-80
84.4	3.1	G-85
89.4	3.1	G-90
94.4	3.1	G-95
99.4	3.1	G-100
104.4	3.1	G-105
109.4	3.1	G-110
114.4	3.1	G-115
119.4	3.1	G-120
124.4	3.1	G-125
129.4	3.1	G-130
134.4	3.1	G-135
139.4	3.1	G-140
144.4	3.1	G-145
149.3	5.7	G-150
154.3	5.7	G-155
159.3	5.7	G-160
164.3	5.7	G-165
169.3	5.7	G-170
174.3	5.7	G-175
179.3	5.7	G-180
184.3	5.7	G-185
189.3	5.7	G-190
194.3	5.7	G-195
199.3	5.7	G-200
204.3	5.7	G-205
209.3	5.7	G-210
214.3	5.7	G-215
219.3	5.7	G-220
224.3	5.7	G-225
229.3	5.7	G-230
234.3	5.7	G-235
239.3	5.7	G-240
244.3	5.7	G-245
249.3	5.7	G-250
254.3	5.7	G-255
259.3	5.7	G-260
264.3	5.7	G-265
269.3	5.7	G-270
274.3	5.7	G-275
279.3	5.7	G-280
284.3	5.7	G-285
289.3	5.7	G-290
294.3	5.7	G-295
299.3	5.7	G-300
304.3	5.7	G-305
309.3	5.7	G-310
314.3	5.7	G-315
319.3	5.7	G-320
324.3	5.7	G-325
329.3	5.7	G-330
334.3	5.7	G-335
339.3	5.7	G-340
344.5	5.7	G-345
349.3	5.7	G-350
354.3	5.7	G-355
359.3	5.7	G-360
364.3	5.7	G-365
369.3	5.7	G-370
374.3	5.7	G-375
379.3	5.7	G-380
384.3	5.7	G-385
389.3	5.7	G-390
394.3	5.7	G-395
399.3	5.7	G-400

Japanese G-Series

ID (mm)	CS (mm)	JIS B 2401
404.3	5.7	G-405
409.3	5.7	G-410
419.3	5.7	G-420
424.3	5.7	G-425
429.3	5.7	G-430
434.3	5.7	G-435
439.3	5.7	G-440
444.3	5.7	G-445
449.3	5.7	G-450
459.3	5.7	G-460
464.3	5.7	G-465
474.3	5.7	G-475
479.3	5.7	G-480
484.3	5.7	G-485
489.3	5.7	G-490
499.3	5.7	G-500
534.5	5.7	G-535
639.6	5.7	G-640
689.3	5.7	G-690
804.2	5.7	G-805

Japanese S-Series

ID (mm)	CS (mm)	JIS B 2401
2.5	1.5	S-3
3.5	1.5	S-4
4.5	1.5	S-5
5.5	1.5	S-6
6.5	1.5	S-7
7.5	1.5	S-8
8.5	1.5	S-9
9.5	1.5	S-10
10.5	1.5	S-11
10.7	1.5	S-11.2
11.5	1.5	S-12
12.5	1.5	S-13
13.5	1.5	S-14
14.5	1.5	S-15
15.5	1.5	S-16
16.5	1.5	S-17
17.5	1.5	S-18
18.5	1.5	S-19
19.5	1.5	S-20
21.5	1.5	S-22
21.9	2	S-22.4
23.5	2	S-24
24.5	2	S-25
25.5	2	S-26
27.5	2	S-28
28.5	2	S-29
29.5	2	S-30
31.5	2	S-32
33.5	2	S-34
34.5	2	S-35
35.5	2	S-36
37.5	2	S-38
39.5	2	S-40
44.5	2	S-45
45.5	2	S-46
49.5	2	S-50
52.5	2	S-53
54.5	2	S-55
59.5	2	S-60
62.5	2	S-63
64.5	2	S-65
79.5	2	S-80
84.5	2	S-85
89.5	2	S-90
99.5	2	S-100
104.5	2	S-105
109.5	2	S-110
114.5	2	S-115
119.5	2	S-120
124.5	2	S-125
129.5	2	S-130
134.5	2	S-135
139.5	2	S-140
144.5	2	S-145
149.5	2	S-150
159.5	2	S-160
169.5	2	S-170
194.5	2	S-195

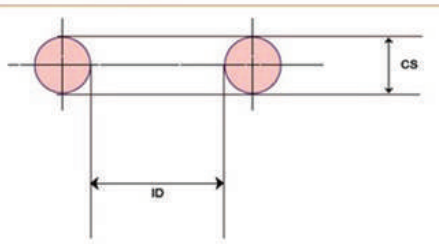
Japanese P-Series

ID (mm)	CS (mm)	JIS B 2401
2.8	1.9	P-3
3.8	1.9	P-4
4.8	1.9	P-5
5.8	1.9	P-6
6.8	1.9	P-7
7.8	1.9	P-8
8.8	1.9	P-9
9.8	1.9	P-10
9.8	2.4	P-10A
10.8	2.4	P-11
11.0	2.4	P-11.2
11.8	2.4	P-12
12.3	2.4	P-12.5
12.8	2.4	P-13
13.8	2.4	P-14
14.8	2.4	P-15
15.8	2.4	P-16
16.6	2.4	P-17
17.8	2.4	P-18
18.6	2.4	P-19
19.8	2.4	P-20
20.8	2.4	P-21
21.8	2.4	P-22
21.7	3.5	P-22A
22.1	3.5	P-22.4
23.7	3.5	P-24
24.7	3.5	P-25
25.2	3.5	P-25.5
25.7	3.5	P-26
27.7	3.5	P-28
28.7	3.5	P-29
29.2	3.5	P-29.5
29.7	3.5	P-30
30.7	3.5	P-31
31.2	3.5	P-31.5
31.7	3.5	P-32
33.7	3.5	P-34
34.7	3.5	P-35
35.2	3.5	P-35.5
35.7	3.5	P-36
37.7	3.5	P-38
38.7	3.5	P-39
39.7	3.5	P-40
40.7	3.5	P-41
41.7	3.5	P-42
43.7	3.5	P-44
44.7	3.5	P-45
45.7	3.5	P-46
47.7	3.5	P-48
48.7	3.5	P-49
49.7	3.5	P-50
47.6	5.7	P-48A
49.6	5.7	P-50A
51.6	5.7	P-52
52.6	5.7	P-53
54.6	5.7	P-55
55.6	5.7	P-56
57.6	5.7	P-58
59.6	5.7	P-60
61.6	5.7	P-62
62.6	5.7	P-63
64.6	5.7	P-65
66.6	5.7	P-67
69.6	5.7	P-70
70.6	5.7	P-71
74.6	5.7	P-75
79.6	5.7	P-80
84.6	5.7	P-85
89.6	5.7	P-90
94.6	5.7	P-95
99.6	5.7	P-100
101.6	5.7	P-102
104.6	5.7	P-105
109.6	5.7	P-110
111.6	5.7	P-112
114.6	5.7	P-115
116.6	5.7	P-112
119.6	5.7	P-120

ID (mm)	CS (mm)	JIS B 2401
124.6	5.7	P-125
129.6	5.7	P-130
131.6	5.7	P-132
134.6	5.7	P-135
139.6	5.7	P-140
144.6	5.7	P-145
149.6	5.7	P-150
149.5	8.4	P-150A
154.5	8.4	P-155
159.5	8.4	P-160
164.5	8.4	P-165
169.5	8.4	P-170
174.5	8.4	P-175
179.5	8.4	P-180
184.5	8.4	P-185
189.5	8.4	P-190
194.5	8.4	P-195
199.5	8.4	P-200
204.5	8.4	P-205
208.5	8.4	P-209
209.5	8.4	P-210
214.5	8.4	P-215
219.5	8.4	P-220
224.5	8.4	P-225
229.5	8.4	P-230
234.5	8.4	P-235
239.5	8.4	P-240
244.5	8.4	P-245
249.5	8.4	P-250
254.5	8.4	P-255
259.5	8.4	P-260
264.5	8.4	P-265
269.5	8.4	P-270
274.5	8.4	P-275
279.5	8.4	P-280
284.5	8.4	P-285
289.5	8.4	P-290
294.5	8.4	P-295
299.5	8.4	P-300
304.5	8.4	P-305
309.5	8.4	P-310
314.5	8.4	P-315
319.5	8.4	P-320
329.5	8.4	P-330
334.5	8.4	P-335
339.5	8.4	P-340
344.5	8.4	P-345
349.5	8.4	P-350
354.5	8.4	P-355
359.5	8.4	P-360
369.5	8.4	P-370
374.5	8.4	P-375
379.5	8.4	P-380
384.5	8.4	P-385
399.5	8.4	P-400
409.5	8.4	P-410
419.5	8.4	P-420
429.5	8.4	P-430
434.5	8.4	P-435
439.5	8.4	P-440
459.5	8.4	P-460
474.5	8.4	P-475
484.5	8.4	P-485
533.0	8.4	P-535
719.0	11.5	P-720

Japanese V-Series

ID (mm)	CS (mm)	JIS B 2401
14.5	4	V-15
23.5	4	V-24
33.5	4	V-34
39.5	4	V-40
54.5	4	V-55
69.0	4	V-70
84.0	4	V-85
99.0	4	V-100
119.0	4	V-120
148.5	4	V-150
173.0	4	V-175
222.5	6	V-225
272.0	6	V-275
321.5	6	V-325
376.0	6	V-380
425.5	6	V-430
475.0	10	V-480
524.5	10	V-530
579.0	10	V-585
633.5	10	V-640
683.0	10	V-690
782.0	10	V-790



METRIC O-ring

ID (mm)	CS (mm)
1.15	1.00
1.50	1.00
1.80	1.00
2.00	1.00
2.50	1.00
3.00	1.00
3.50	1.00
4.00	1.00
4.50	1.00
5.00	1.00
5.50	1.00
6.00	1.00
6.50	1.00
7.00	1.00
7.50	1.00
8.00	1.00
8.50	1.00
9.00	1.00
9.50	1.00
10.00	1.00
10.50	1.00
11.00	1.00
11.50	1.00
12.00	1.00
12.50	1.00
13.00	1.00
13.50	1.00
14.00	1.00
14.50	1.00
15.00	1.00
15.50	1.00
16.00	1.00
16.50	1.00
17.00	1.00
17.50	1.00
18.00	1.00
19.00	1.00
20.00	1.00
21.00	1.00
22.00	1.00
23.00	1.00
24.00	1.00
25.00	1.00
26.00	1.00
28.00	1.00
30.00	1.00
32.00	1.00
35.00	1.00
40.00	1.00
45.00	1.00
4.00	1.20
16.00	1.25
2.00	1.50
3.00	1.50
4.00	1.50
5.00	1.50
6.00	1.50
7.00	1.50
8.00	1.50
9.00	1.50
10.00	1.50
11.00	1.50
12.00	1.50
13.00	1.50
14.00	1.50
15.00	1.50
16.00	1.50
17.00	1.50
18.00	1.50
19.00	1.50
20.00	1.50
21.00	1.50
22.00	1.50
23.00	1.50
24.00	1.50
25.00	1.50
26.00	1.50
27.00	1.50
28.00	1.50
29.00	1.50
30.00	1.50

ID (mm)	CS (mm)
31.00	1.50
32.00	1.50
33.00	1.50
34.00	1.50
35.00	1.50
36.00	1.50
37.00	1.50
38.00	1.50
39.00	1.50
40.00	1.50
41.00	1.50
42.00	1.50
43.00	1.50
44.00	1.50
45.00	1.50
46.00	1.50
47.00	1.50
48.00	1.50
49.00	1.50
50.00	1.50
51.00	1.50
52.00	1.50
53.00	1.50
54.00	1.50
55.00	1.50
56.00	1.50
57.00	1.50
58.00	1.50
59.00	1.50
60.00	1.50
61.00	1.50
62.00	1.50
63.00	1.50
64.00	1.50
65.00	1.50
66.00	1.50
67.00	1.50
68.00	1.50
69.00	1.50
70.00	1.50
72.00	1.50
75.00	1.50
75.00	1.50
76.00	1.50
77.00	1.50
78.00	1.50
80.00	1.50
81.00	1.50
84.00	1.50
85.00	1.50
87.00	1.50
90.00	1.50
95.00	1.50
98.00	1.50
100.00	1.50
177.00	1.50
2.20	1.60
2.80	1.60
3.10	1.60
4.10	1.60
4.70	1.60
5.10	1.60
6.10	1.60
7.10	1.60
7.60	1.60
8.10	1.60
9.10	1.60
10.10	1.60
11.10	1.60
12.10	1.60
13.10	1.60
14.10	1.60
15.10	1.60
16.10	1.60
17.10	1.60
18.10	1.60
19.10	1.60
22.10	1.60
25.10	1.60
27.10	1.60
29.10	1.60

ID (mm)	CS (mm)
32.10	1.60
6.35	1.78
6.75	1.78
8.73	1.78
11.10	1.78
11.11	1.78
36.27	1.78
39.45	1.78
79.00	1.78
85.34	1.78
91.70	1.78
98.05	1.78
104.40	1.78
110.74	1.78
117.10	1.78
123.44	1.78
129.40	1.78
135.76	1.78
138.94	1.78
142.11	1.78
145.29	1.78
148.46	1.78
151.64	1.78
154.81	1.78
158.00	1.78
161.16	1.78
164.34	1.78
167.51	1.78
170.69	1.78
173.87	1.78
8.50	1.80
9.00	1.80
10.52	1.83
4.90	1.90
7.20	1.90
2.50	2.00
3.00	2.00
3.50	2.00
4.00	2.00
4.50	2.00
5.00	2.00
5.50	2.00
6.00	2.00
6.50	2.00
7.00	2.00
7.50	2.00
8.00	2.00
8.50	2.00
9.00	2.00
9.50	2.00
10.00	2.00
10.50	2.00
11.00	2.00
11.50	2.00
12.00	2.00
12.50	2.00
13.00	2.00
13.50	2.00
14.00	2.00
14.50	2.00
15.00	2.00
16.00	2.00
17.00	2.00
17.50	2.00
18.00	2.00
19.00	2.00
20.00	2.00
20.00	2.00
21.00	2.00
22.00	2.00
23.00	2.00
24.00	2.00
25.00	2.00
26.00	2.00
27.00	2.00
28.00	2.00
29.00	2.00
30.00	2.00
31.00	2.00
32.00	2.00
33.00	2.00

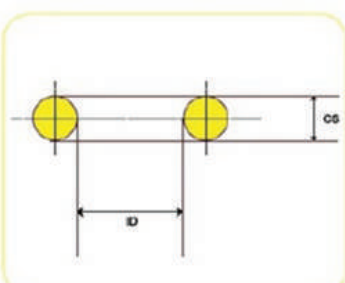
ID (mm)	CS (mm)
34.00	2.00
35.00	2.00
36.00	2.00
37.00	2.00
38.00	2.00
39.00	2.00
40.00	2.00
41.00	2.00
42.00	2.00
43.00	2.00
44.00	2.00
45.00	2.00
46.00	2.00
47.00	2.00
48.00	2.00
49.00	2.00
50.00	2.00
51.00	2.00
52.00	2.00
53.00	2.00
54.00	2.00
55.00	2.00
56.00	2.00
57.00	2.00
58.00	2.00
59.00	2.00
60.00	2.00
61.00	2.00
62.00	2.00
63.00	2.00
64.00	2.00
65.00	2.00
66.00	2.00
67.00	2.00
68.00	2.00
69.00	2.00
70.00	2.00
71.00	2.00
72.00	2.00
73.00	2.00
74.00	2.00
75.00	2.00
76.00	2.00
77.00	2.00
78.00	2.00
79.00	2.00
80.00	2.00
81.00	2.00
82.00	2.00
83.00	2.00
84.00	2.00
85.00	2.00
86.00	2.00
87.00	2.00
88.00	2.00
89.00	2.00
90.00	2.00
91.00	2.00
92.00	2.00
93.00	2.00
94.00	2.00
95.00	2.00
96.00	2.00
97.00	2.00
98.00	2.00
99.00	2.00
100.00	2.00
105.00	2.00
107.00	2.00
108.00	2.00
110.00	2.00
113.00	2.00
115.00	2.00
118.00	2.00
119.00	2.00
120.00	2.00
125.00	2.00
130.00	2.00
135.00	2.00
140.00	2.00
145.00	2.00

ID (mm)	CS (mm)
148.00	2.00
150.00	2.00
155.00	2.00
160.00	2.00
165.00	2.00
170.00	2.00
175.00	2.00
180.00	2.00
185.00	2.00
190.00	2.00
195.00	2.00
200.00	2.00
235.00	2.00
240.00	2.00
255.00	2.00
290.00	2.00
6.00	2.20
3.30	2.40
4.30	2.40
5.30	2.40
5.60	2.40
6.30	2.40
7.30	2.40
7.60	2.40
8.30	2.40
8.60	2.40
9.30	2.40
10.30	2.40
10.60	2.40
11.30	2.40
11.60	2.40
12.60	2.40
13.30	2.40
13.60	2.40
14.30	2.40
14.60	2.40
15.30	2.40
15.60	2.40
16.30	2.40
17.30	2.40
17.60	2.40
18.30	2.40
19.30	2.40
20.30	2.40
20.50	2.40
21.30	2.40
21.60	2.40
22.30	2.40
23.30	2.40
23.50	2.40
24.50	2.40
24.60	2.40
25.30	2.40
26.30	2.40
27.30	2.40
27.60	2.40
29.60	2.40
29.70	2.40
31.60	2.40
33.30	2.40
34.60	2.40
37.60	2.40
39.60	2.40
41.60	2.40
44.60	2.40
47.60	2.40
49.60	2.40
51.60	2.40
54.60	2.40
57.60	2.40
59.60	2.40
61.60	2.40
64.60	2.40
67.60	2.40
69.60	2.40
3.00	2.50
4.00	2.50
5.00	2.50
6.00	2.50
6.50	2.50
7.00	2.50

ID (mm)	CS (mm)
7.50	2.50
8.00	2.50
9.00	2.50
9.40	2.50
9.50	2.50
10.00	2.50
10.50	2.50
11.00	2.50
11.50	2.50
12.00	2.50
12.50	2.50
13.00	2.50
13.50	2.50
14.00	2.50
14.50	2.50
15.00	2.50
15.50	2.50
16.00	2.50
17.00	2.50
17.50	2.50
18.00	2.50
19.00	2.50
19.50	2.50
20.00	2.50
21.00	2.50
22.00	2.50
23.00	2.50
24.00	2.50
25.00	2.50
26.00	2.50
27.00	2.50
27.50	2.50
28.00	2.50
29.00	2.50
29.50	2.50
30.00	2.50
31.00	2.50
32.00	2.50
33.00	2.50
34.00	2.50
35.00	2.50
36.00	2.50
37.00	2.50
38.00	2.50
39.00	2.50
40.00	2.50
41.00	2.50
42.00	2.50
43.00	2.50
44.00	2.50
45.00	2.50
46.00	2.50
47.00	2.50
48.00	2.50
49.00	2.50
50.00	2.50
51.00	2.50
52.00	2.50
53.00	2.50
54.00	2.50
55.00	2.50
56.00	2.50
57.00	2.50
58.00	2.50
59.00	2.50
60.00	2.50
61.00	2.50
62.00	2.50
63.00	2.50
64.00	2.50
65.00	2.50
66.00	2.50
67.00	2.50
68.00	2.50
69.00	2.50
70.00	2.50
71.00	2.50
73.00	2.50
74.00	2.50
75.00	2.50
76.00	2.50

ID (mm)	CS (mm)
77.00	2.50
78.00	2.50
79.00	2.50
80.00	2.50
81.00	2.50
82.00	2.50
85.00	2.50
86.00	2.50
87.00	2.50
88.00	2.50
89.00	2.50
90.00	2.50
92.00	2.50
93.00	2.50
95.00	2.50
98.00	2.50
100.00	2.50
102.00	2.50
105.00	2.50
108.00	2.50
109.00	2.50
110.00	2.50
112.00	2.50
115.00	2.50
118.00	2.50
120.00	2.50
122.00	2.50
125.00	2.50
128.00	2.50
130.00	2.50
132.00	2.50
135.00	2.50
140.00	2.50
142.00	2.50
145.00	2.50
146.00	2.50
150.00	2.50
9.13	2.62
9.92	2.62
11.91	2.62
13.10	2.62
15.08	2.62
15.88	2.62
17.86	2.62
20.63	2.62
22.23	2.62
23.81	2.62
25.00	2.65
8.90	2.70
10.50	2.70
12.10	2.70
15.10	2.70
18.40	2.70
3.00	3.00
4.00	3.00
5.00	3.00
6.00	3.00
7.00	3.00
7.50	3.00
8.00	3.00
8.50	3.00
9.00	3.00
10.00	3.00
11.00	3.00
12.00	3.00
12.50	3.00
13.00	3.00
13.50	3.00
14.00	3.00
15.00	3.00
16.00	3.00
17.00	3.00
17.50	3.00
18.00	3.00
19.00	3.00
19.20	3.00
19.50	3.00
20.00	3.00
21.00	3.00
21.50	3.00
22.00	3.00

ID (mm)	CS (mm)
22.20	3.00
23.00	3.00
23.50	3.00
24.00	3.00
24.20	3.00
25.00	3.00
26.00	3.00
26.20	3.00
26.50	3.00
27.00	3.00
27.50	3.00
28.00	3.00
29.00	3.00
29.20	3.00
29.50	3.00
30.00	3.00
31.00	3.00
32.00	3.00
32.20	3.00
33.00	3.00
34.00	3.00
34.20	3.00
34.50	3.00
35.00	3.00
35.20	3.00
36.00	3.00
36.20	3.00
37.00	3.00
37.50	3.00
38.00	3.00
39.00	3.00
39.20	3.00
40.00	3.00
41.00	3.00
42.00	3.00
42.20	3.00
43.00	3.00
44.00	3.00
44.20	3.00
45.00	3.00
46.00	3.00
47.00	3.00
48.00	3.00
49.00	3.00
50.00	3.00
51.00	3.00
52.00	3.00
53.00	3.00
54.00	3.00
55.00	3.00
56.00	3.00
57.00	3.00
58.00	3.00
59.00	3.00
60.00	3.00
61.00	3.00
62.00	3.00
63.00	3.00
64.00	3.00
65.00	3.00
66.00	3.00
67.00	3.00
68.00	3.00
69.00	3.00
69.50	3.00
70.00	3.00



METRIC O-ring

ID (mm)	CS (mm)
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73.00	3.00
74.00	3.00
74.50	3.00
75.00	3.00
76.00	3.00
77.00	3.00
78.00	3.00
79.00	3.00
79.50	3.00
81.00	3.00
82.00	3.00
83.00	3.00
84.00	3.00
84.50	3.00
84.50	3.00
86.00	3.00
87.00	3.00
88.00	3.00
89.00	3.00
89.50	3.00
90.00	3.00
91.00	3.00
92.00	3.00
93.00	3.00
94.00	3.00
95.00	3.00
96.00	3.00
97.00	3.00
98.00	3.00
99.00	3.00
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106.00	3.00
107.00	3.00
108.00	3.00
110.00	3.00
112.00	3.00
113.00	3.00
114.00	3.00
115.00	3.00
116.00	3.00
117.00	3.00
118.00	3.00
119.00	3.00
120.00	3.00
121.00	3.00
122.00	3.00
123.00	3.00
124.00	3.00
125.00	3.00
126.00	3.00
127.00	3.00
128.00	3.00
130.00	3.00
132.00	3.00
133.00	3.00
135.00	3.00
137.00	3.00
138.00	3.00
139.00	3.00
140.00	3.00
146.00	3.00
148.00	3.00
150.00	3.00
151.00	3.00
152.00	3.00
153.00	3.00
155.00	3.00
158.00	3.00
159.00	3.00
160.00	3.00
162.00	3.00
163.00	3.00
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165.00	3.00

ID (mm)	CS (mm)
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168.00	3.00
170.00	3.00
172.00	3.00
174.00	3.00
175.00	3.00
178.00	3.00
180.00	3.00
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185.00	3.00
188.00	3.00
189.00	3.00
190.00	3.00
192.00	3.00
194.00	3.00
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206.00	3.00
207.00	3.00
210.00	3.00
212.00	3.00
215.00	3.00
216.00	3.00
219.50	3.00
220.00	3.00
225.00	3.00
228.00	3.00
230.00	3.00
233.00	3.00
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290.00	3.00
295.00	3.00
300.00	3.00
310.00	3.00
315.00	3.00
320.00	3.00
340.00	3.00
345.00	3.00
350.00	3.00
360.00	3.00
370.00	3.00
385.00	3.00
400.00	3.00
406.00	3.10
16.25	3.18
144.00	3.20
17.30	3.40
8.00	3.50
9.00	3.50
10.00	3.50
12.00	3.50
12.00	3.50
13.00	3.50
15.00	3.50
16.00	3.50
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ID (mm)	CS (mm)
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42.00	3.50
43.00	3.50
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56.00	3.50
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67.00	3.50
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163.00	3.50
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170.00	3.50
174.00	3.50
175.00	3.50
180.00	3.50
184.00	3.50
185.00	3.50
186.00	3.50
195.00	3.50
200.00	3.50
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ID (mm)	CS (mm)
208.00	3.50
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225.00	3.50
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240.00	3.50
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257.00	3.50
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265.00	3.50
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345.00	3.50
350.00	3.50
365.00	3.50
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380.00	3.50
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400.00	3.50
415.00	3.50
420.00	3.50
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ID (mm)	CS (mm)
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ID (mm)	CS (mm)
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108.00	4.00
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220.00	4.00
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237.00	4.00
240.00	4.00
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248.00	4.00
250.00	4.00
255.00	4.00
256.00	4.00
260.00	4.00
265.00	4.00

ID (mm)	CS (mm)
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275.00	4.00
277.00	4.00
280.00	4.00
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290.00	4.00
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295.00	4.00
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307.00	4.00
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313.00	4.00
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320.00	4.00
322.00	4.00
325.00	4.00
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333.00	4.00
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363.00	4.00
365.00	4.00
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375.00	4.00
380.00	4.00
385.00	4.00
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395.00	4.00
400.00	4.00
405.00	4.00
410.00	4.00
412.00	4.00
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420.00	4.00
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15.50	4.50
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17.00	4.50
18.00	4.50
19.00	4.50
20.00	4.50
22.00	4.50

ID (mm)	CS (mm)
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24.00	4.50
24.50	4.50
25.00	4.50
26.00	4.50
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32.00	4.50
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92.00	4.50
95.00	4.50
100.00	4.50
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110.00	4.50
115.00	4.50
120.00	4.50
122.00	4.50
124.00	4.50
126.00	4.50
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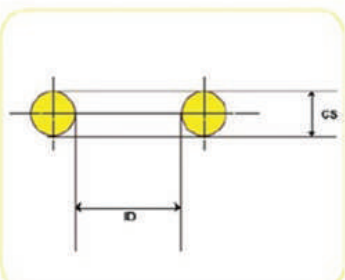
134.50	4.50
135.00	4.50
140.00	4.50
145.00	4.50



METRIC O-ring

ID (mm)	CS (mm)
150.00	4.50
153.00	4.50
155.00	4.50
160.00	4.50
165.00	4.50
172.00	4.50
178.00	4.50
180.00	4.50
185.00	4.50
189.50	4.50
192.00	4.50
205.00	4.50
208.00	4.50
215.00	4.50
218.50	4.50
220.00	4.50
225.00	4.50
227.00	4.50
250.00	4.50
267.00	4.50
280.00	4.50
315.00	4.50
4.00	5.00
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6.00	5.00
7.00	5.00
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10.00	5.00
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31.00	5.00
32.00	5.00
33.00	5.00
34.00	5.00
35.00	5.00
36.00	5.00
37.00	5.00
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39.00	5.00
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41.00	5.00
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43.00	5.00
44.00	5.00
45.00	5.00
46.00	5.00
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62.00	5.00

ID (mm)	CS (mm)
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66.00	5.00
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68.00	5.00
70.00	5.00
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73.00	5.00
74.00	5.00
75.00	5.00
76.00	5.00
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125.00	5.00
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132.00	5.00
135.00	5.00
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137.00	5.00
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148.00	5.00
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158.00	5.00
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ID (mm)	CS (mm)
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260.00	5.00
265.00	5.00
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275.00	5.00
280.00	5.00
285.00	5.00
290.00	5.00
293.00	5.00
295.00	5.00
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315.00	5.00
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410.00	5.00
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89.69	5.33
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29.50	5.70
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35.20	5.70
37.20	5.70
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44.30	5.70
45.30	5.70
49.20	5.70
64.00	5.70
67.20	5.70
79.30	5.70
87.20	5.70
92.20	5.70
97.20	5.70
520.00	5.70
6.00	6.00
7.00	6.00
9.00	6.00
10.00	6.00

ID (mm)	CS (mm)
11.00	6.00
12.00	6.00
13.00	6.00
14.00	6.00
15.00	6.00
16.00	6.00
18.00	6.00
19.00	6.00
20.00	6.00
21.00	6.00
22.00	6.00
23.00	6.00
24.00	6.00
25.00	6.00
26.00	6.00
27.00	6.00
28.00	6.00
29.00	6.00
30.00	6.00
31.00	6.00
32.00	6.00
33.00	6.00
34.00	6.00
35.00	6.00
36.00	6.00
37.00	6.00
38.00	6.00
39.00	6.00
40.00	6.00
41.00	6.00
42.00	6.00
43.00	6.00
44.00	6.00
45.00	6.00
46.00	6.00
47.00	6.00
48.00	6.00
49.00	6.00
50.00	6.00
51.00	6.00
52.00	6.00
53.00	6.00
54.00	6.00
55.00	6.00
56.00	6.00
57.00	6.00
58.00	6.00
60.00	6.00
62.00	6.00
63.00	6.00
64.00	6.00
65.00	6.00
66.00	6.00
67.00	6.00
68.00	6.00
70.00	6.00
72.00	6.00
73.00	6.00
74.00	6.00
75.00	6.00
76.00	6.00
78.00	6.00
80.00	6.00
82.00	6.00
84.00	6.00
85.00	6.00
86.00	6.00
88.00	6.00
90.00	6.00
92.00	6.00
93.00	6.00
95.00	6.00
96.00	6.00
98.00	6.00
100.00	6.00
101.00	6.00
103.00	6.00
105.00	6.00
108.00	6.00
110.00	6.00
112.00	6.00

ID (mm)	CS (mm)
114.00	6.00
115.00	6.00
118.00	6.00
120.00	6.00
122.00	6.00
123.00	6.00
125.00	6.00
128.00	6.00
130.00	6.00
132.00	6.00
134.00	6.00
135.00	6.00
136.00	6.00
138.00	6.00
140.00	6.00
142.00	6.00
145.00	6.00
146.00	6.00
148.00	6.00
150.00	6.00
153.00	6.00
155.00	6.00
158.00	6.00
160.00	6.00
165.00	6.00
169.00	6.00
170.00	6.00
172.00	6.00
175.00	6.00
180.00	6.00
182.00	6.00
185.00	6.00
190.00	6.00
195.00	6.00
200.00	6.00
203.00	6.00
205.00	6.00
208.00	6.00
210.00	6.00
215.00	6.00
220.00	6.00
221.00	6.00
225.00	6.00
230.00	6.00
235.00	6.00
238.00	6.00
240.00	6.00
242.00	6.00
244.00	6.00
250.00	6.00
258.00	6.00
260.00	6.00
262.00	6.00
265.00	6.00
270.00	6.00
275.00	6.00
280.00	6.00
285.00	6.00
288.00	6.00
290.00	6.00
295.00	6.00
300.00	6.00
305.00	6.00
310.00	6.00
315.00	6.00
320.00	6.00
321.50	6.00
325.00	6.00
330.00	6.00
333.00	6.00
335.00	6.00
340.00	6.00
345.00	6.00
350.00	6.00
355.00	6.00
360.00	6.00
365.00	6.00
370.00	6.00
375.00	6.00
376.00	6.00
380.00	6.00

ID (mm)	CS (mm)
385.00	6.00
390.00	6.00
395.00	6.00
400.00	6.00
403.00	6.00
410.00	6.00
415.00	6.00
422.00	6.00
425.00	6.00
429.00	6.00
446.00	6.00
448.00	6.00
450.00	6.00
470.00	6.00
480.00	6.00
485.00	6.00
486.00	6.00
489.00	6.00
490.00	6.00
500.00	6.00
504.00	6.00
505.00	6.00
510.00	6.00
516.00	6.00
530.00	6.00
540.00	6.00
549.00	6.00
555.00	6.00
560.00	6.00
575.00	6.00
32.00	6.50
50.00	6.50
265.00	6.50
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28.00	7.00
30.00	7.00
36.00	7.00
38.00	7.00
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52.00	7.00
53.00	7.00
57.00	7.00
60.00	7.00
70.00	7.00
75.00	7.00
77.00	7.00
79.00	7.00
82.00	7.00
90.00	7.00
92.00	7.00
95.00	7.00
96.00	7.00
101.00	7.00
105.00	7.00
106.00	7.00
107.00	7.00
110.00	7.00
128.00	7.00
168.30	7.00
206.00	7.00
218.00	7.00
224.00	7.00
236.00	7.00
243.00	7.00
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270.00	7.00
280.00	7.00
290.00	7.00
300.00	7.00
307.00	7.00
315.00	7.00
325.00	7.00
335.00	7.00
360.00	7.00
365.00	7.00
487.00	7.00
515.00	7.00
647.07	7.00
650.00	7.00

ID (mm)	CS (mm)
670.00	7.00
93.00	7.50
24.00	8.00
40.00	8.00
50.00	8.00
60.00	8.00
100.00	8.00
110.00	8.00
300.00	8.00
380.00	8.00
410.00	8.00
412.00	8.00
460.00	8.00
490.00	8.00
500.00	8.00
500.00	8.00
538.00	8.00
540.00	8.00
620.00	8.00
750.00	8.00
144.10	8.40
182.00	9.00
222.00	9.00
65.00	10.00
75.00	10.00
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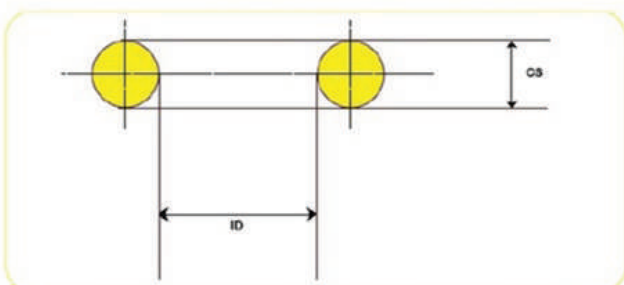
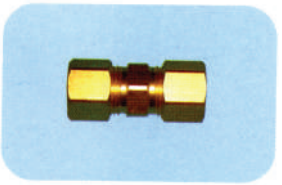
450.00	10.00
40.00	16.00
50.00	16.00

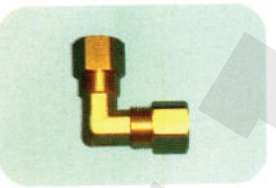


ข้อต่อทองเหลือง

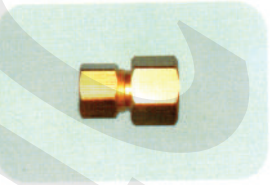


62
ยูเนี่ยนตาไก่

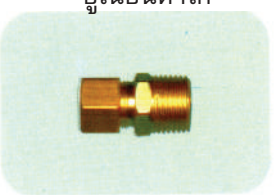
64
สามทางตาไก่



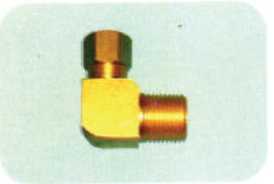
65
ข้องอยูเนี่ยนตาไก่



66
ต่อตรงตาไก่ตัวเมีย

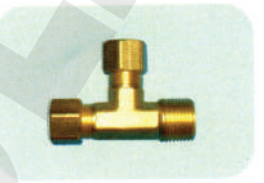


68
ต่อตรงตัวผู้ตาไก่เดี่ยว

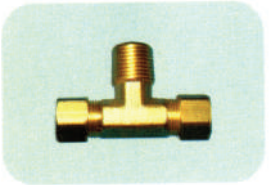


69
ข้องอตัวผู้ตาไก่เดี่ยว

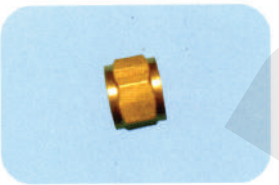
70
ข้องอกล้องยาแฟลร์



71
สามทางตาไก่ประปาตัวผู้ด้านข้าง

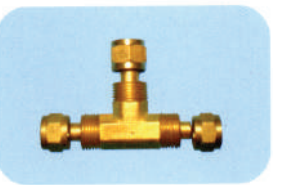


72
สามทางรันทีตาไก่



610
ฝาครอบข้อต่อลม

620
ยูเนี่ยนสายลม

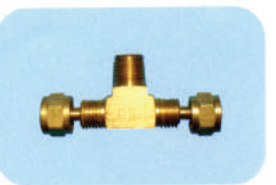


640
สามทางสายลม

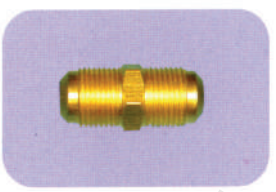
660
ต่อตรงสายลมเกลียวใน

680
ต่อตรงสายลมเกลียวนอก

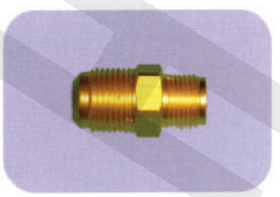
690
ข้องอสายลมเกียวใน



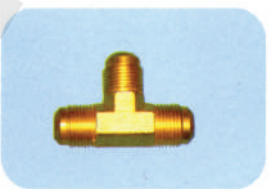
720
สามทางสายลมตัวผู้ด้านบน



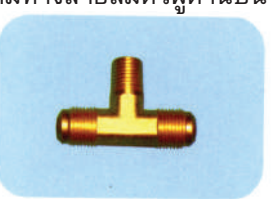
42
ยูเนี่ยน



43
ยูเนี่ยนลด



44
สามทางแฟลร์

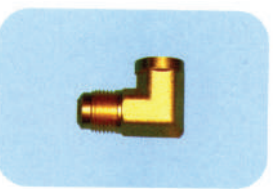


45
สามทางบรานที

46
ฮาฟยูเนี่ยนตัวเมีย

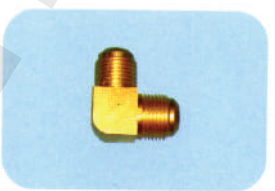
48
ต่อตรงฮาฟยูเนี่ยน

49
ข้องอฮาฟยูเนี่ยน



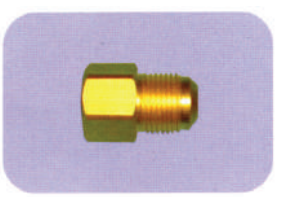
50
ข้องอกล้องยาแฟร์

51
สามทางรันที



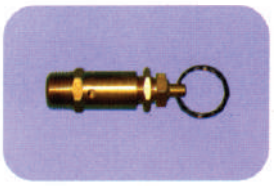
55
ยูเนี่ยนแฟลร์งอฉาก

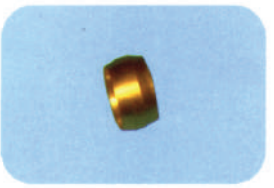
57
ปลั๊กอุดแฟลร์

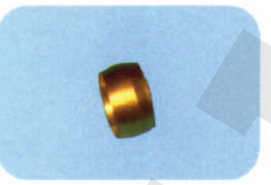


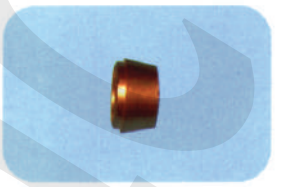
400
ข้อทดทองเหลือง

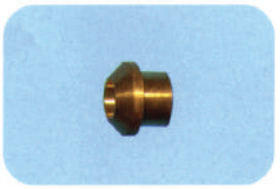
ข้อต่อทองเหลือง

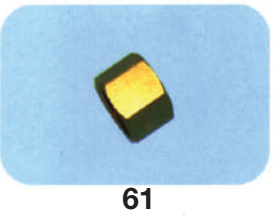

โปโลลม

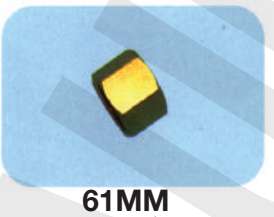

60
ไส้ตาไก่

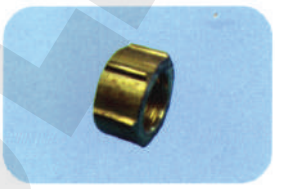

60MM
ไส้ตาไก่สำหรับท่อมิล

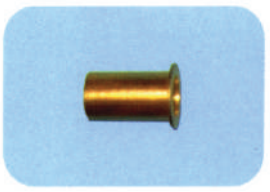

60A
ตาไก่พลิกล็อควาล์ว

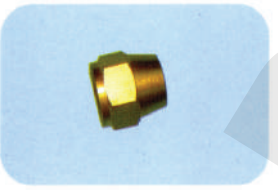

60B
ตาไก่ทองเหลือง

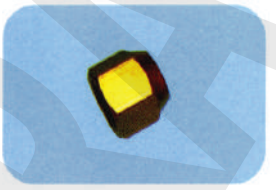

61
ฝาครอบตาไก่

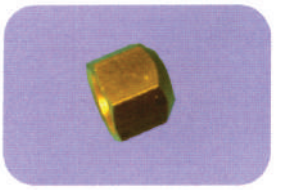

61MM
ฝาครอบตาไก่มิล

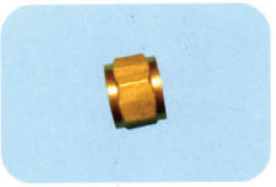

61A
ฝาครอบตาไก่พลิกล็อควาล์ว


61P
ปลอกลูกปืน

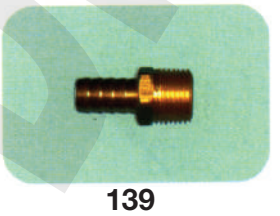

41
แฟลร์นัท

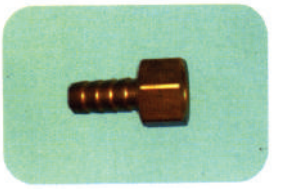

41F
แฟลร์นัทหนา

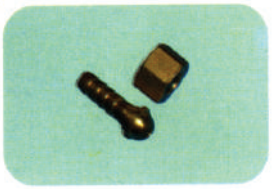

56
แคพนัท

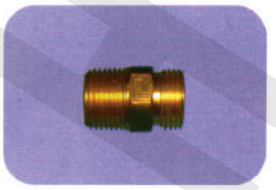

610
ฝาครอบข้อต่อลม

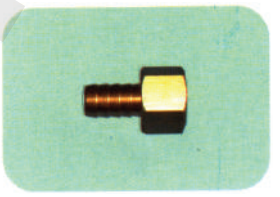

200
ต่อตรงเกลียวนอก-ใน

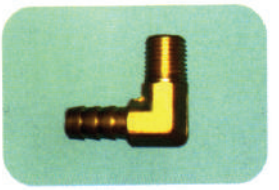

139
สวมสายยางเกลียวแป๊ป

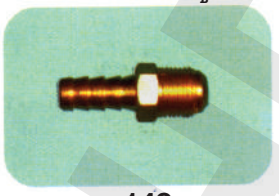

140
สวมสายยางประปาตัวเมีย


143
สวมสายยางหัวลูกโป่ง


150
นิปเปิ้นใช้คู่ 143


144
สวมสายยางประปาตัวเมียหัวตาย


146
ข้องอสวมสายยางออกประปาตัวผู้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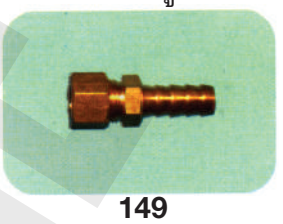
สวมสายยางเกลียวแฟลร์


149
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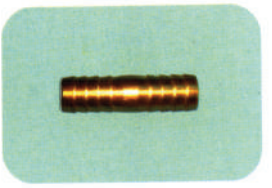
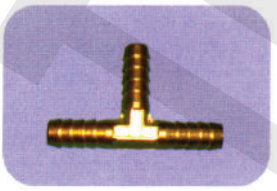
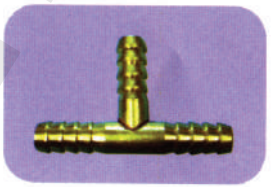

138
สวมสายยางสองด้าน


138-2.75
สวมสายยางสองด้านเกษตร


155
สวมสายยางสามด้าน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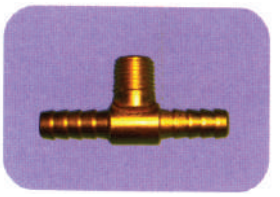
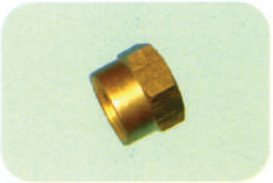
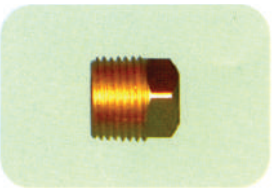

156-5-4
สวมสายยางตรงกลางประปา


166-2.75
สามสายยางสี่ทางการเกษตร

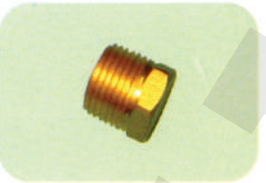
ข้อต่อทองเหลือง



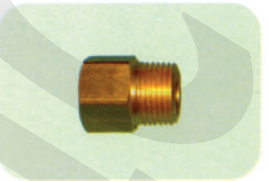
3129
แคพนัทประปา



3151
ปลั๊กอุดหัวสี่เหลี่ยม



3152
ปลั๊กอุดหัวหกเหลี่ยม



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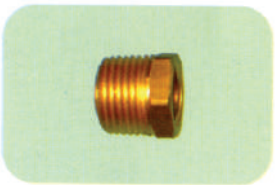

3220
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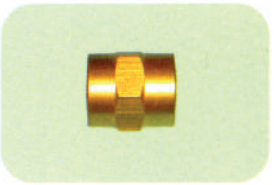

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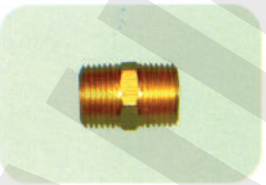
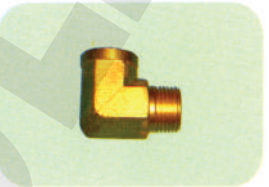
คัปปลิ้งประปา



3325
นิปเปิ้นประปา



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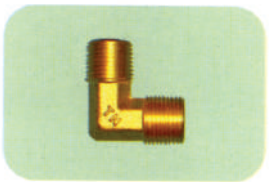
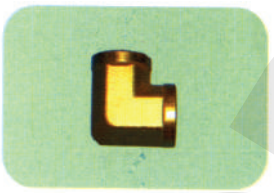
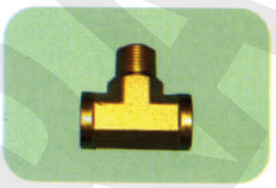


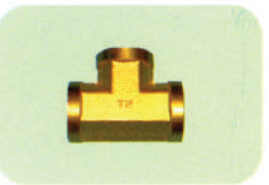
3450
ข้องอ 90 ตัวผู้สองด้าน



3500
ข้องอ 90 ตัวเมียสองด้าน



3600
สามทางรันทีตัวด้านบน



3700
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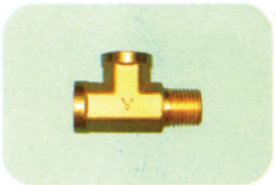
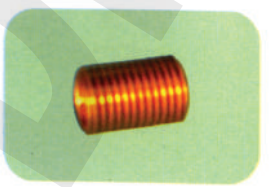


3750
สามทางรันทีตัวผู้ด้านข้าง

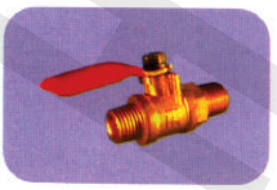
3950
สี่ตากากบาท



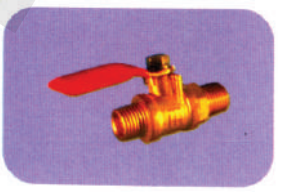
สกูรตัวหนอน

222-1
บอลวาล์วถังโยก-สีขาว

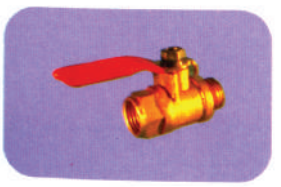
222-2
บอลวาล์ว ผู้-เมีย เกษตร



333-1
บอลวาล์ว ผู้คู่ ประปา

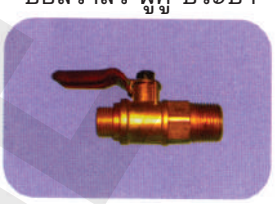


333-2
บอลวาล์ว ผู้คู่ประปาออกเกษตร



333-3
บอลวาล์ว ผู้เมีย ประปา

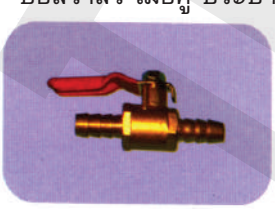
333-4
บอลวาล์ว เมียคู่ ประปา



444-1
บอลวาล์ว ผู้คู่เกษตรออกประปา

555-1
บอลวาล์ว สวมสายยางออกตัวผู้

555-2
บอลวาล์ว สวมสายยางออกตัวเมีย



555-3
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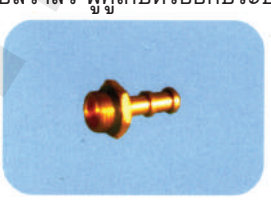
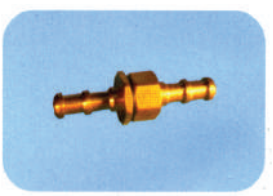


7200
ตัวผู้เกษตรเล็ก+ยาง

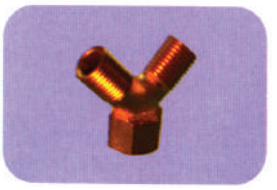


7300
ชุดการเกษตรเล็ก (8.5 มิล)

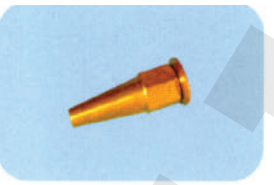
8600
ชุดเกษตรใหญ่+ยาง (10 มิล)

ข้อต่อทองเหลือง

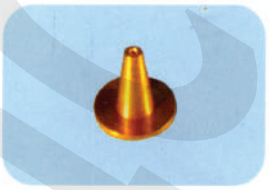
160
สามทางตัววายเกษตร-กลม



161
สามทางตัววายเกษตร-เหลี่ยม



2000
หัวฉีดพ่นสูง

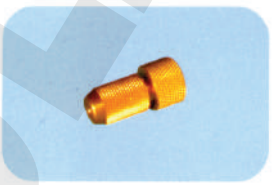


2100
หัวฉีดน้ำยากรวยเล็ก

3000
ชุดหัวฉีดน้ำยาเกษตร

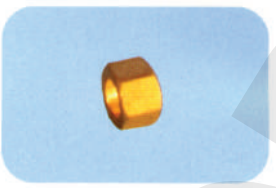
4000
ชุดหัวฉีดน้ำยาตัวผู้

5000
หัวฉีดน้ำยาตัวเมียเล็ก

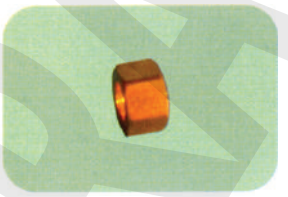


6000
ชุดหัวฉีดน้ำยาตัวเมีย-ใหญ่

7000
ก้านเกษตรเล็ก+ยาง



7100
แฟล์เกษตรเล็ก

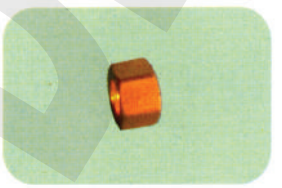


8100
แฟลร์เกษตรใหญ่

8200
ตัวผู้เกษตรใหญ่+ยาง (9.5มิล)

8300
ชุดเกษตรใหญ่+ยาง (9.5มิล)

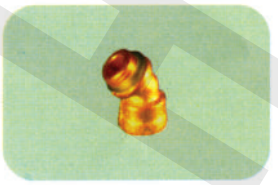
8400
ก้านเกษตรใหญ่+ยาง (10มิล)



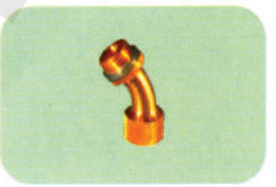
8500
แฟลร์เกษตรใหญ่ (10มิล)

8700
หัวฉีดยาพัด-กลม

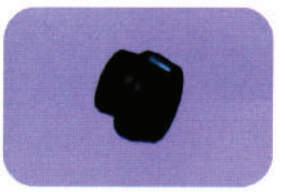
9800
หัวฉีดน้ำยาพัด-เหลี่ยม



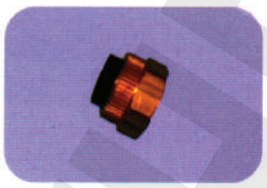
13000
ข้องอฝักบัว-สั้น



14000
ข้องอฝักบัว-ยาว



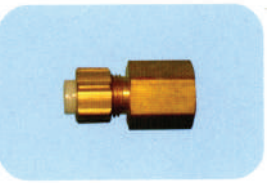
1260
ตาไก่ไนล่อนมีคอคอด



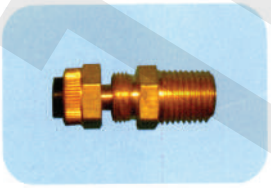
1261
ฝาครอบโพลีไลน์

1262
ยูเนี่ยนโพลีไลน์

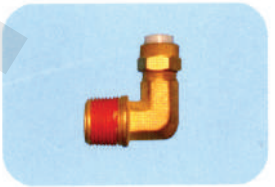
1264
สามทางโพลีไลน์



1266
ต่อตรงโพลีไลน์ออกประปาตัวเมีย



1268
ต่อตรงโพลีไลน์ออกประปาตัวผู้



1269
ข้องอโพลีไลน์ออกประปาตัวผู้

1270
ข้องอโพลีไลน์ประปาตัวเมีย

1271
สามทางรันทีตัวผู้ด้านข้างโพลีไลน์

Coupling Identification

There are five coupling systems generally used for hydraulic connections today. They are identified geographically or by country as:

North American
British
French
German
Japanese

This section lists the origin and coupling style found in each country. Brief descriptions and dimensional data follows each coupling style.

North American Thread Types

Iron Pipe Thread Abbreviations

N National
P Pipe
S Straight Thread
T Tapered Thread
F Fuels
M Mechanical Joint

NPTF

National Pipe Tapered thread for Fuel is a dryseal thread. It is used for both male and female ends.

The NPTF male will mate with the NPTF, NPSF, or NPSM female.

The NPTF male has tapered threads and a 30° inverted seat. The NPTF female has tapered threads and no seat. The seal takes place by deformation of the threads. The NPSM female has straight threads and a 30° inverted seat. The seal takes place on the 30° seat.

The NPTF connector is similar to, but not interchangeable with, the BSPT connector. The thread pitch is different in most sizes. Also, the thread angle is 60° instead of the 55° angle found on BSPT threads.

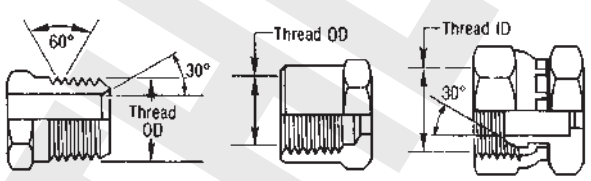
NPSF

National Pipe Straight thread for Fuels is sometimes used for female ends and properly mates with the NPTF male end. However, the SAE recommends the NPTF thread in preference to the NPSF for female ends.

NPSM

National Pipe Straight thread for Mechanical joint is used on the female swivel nut of iron pipe swivel adapters. The leak-resistant joint is not made by the sealing fit of threads, but by a tapered seat in the coupling end.

NPT Pipe Thread



NPTF Solid Male (NPT) | **NPTF or NPSF Solid Female** | **NPSM Swivel Female**

PMT / PNT

National Pipe Thread (NPT)

DASH	SIZE	THREAD	PMT MALE (OD-MM)	PNT FEMALE (ID-MM)
02	1/8"	1/8 - 27	10.32	9.12
04	1/4"	1/4 - 18	13.89	11.90
06	3/8"	3/8 - 18	17.06	15.08
08	1/2"	1/2 - 14	21.43	19.05
12	3/4"	3/4 - 14	26.98	24.20
16	1"	1 - 11.1/2	33.33	30.56
20	1-1/4"	1-1/4 - 11.1/2	42.46	38.89
24	1-1/2"	1-1/2 - 11.1/2	48.41	45.24
32	2"	2 - 11.1/2	60.32	57.15

*JIC (37° Flare)

The Society of Automotive Engineers (SAE) specifies a 37° angle flare or seat be used with high pressure hydraulic tubing. These are commonly called JIC couplings.

The JIC 37° flare male will mate with a JIC female only.* The JIC male has straight threads and a 37° flare seat. The JIC female has straight threads and a 37° flare seat. The seal is made on the 37° flare seat.

Some sizes have the same threads as the SAE 45° flare. Carefully measure the seat angle to differentiate.

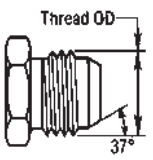
***Note:** Some C5, C5E and Lock-On couplings may have dual machined seats (both 37° and 45° seats).*

JM / JS

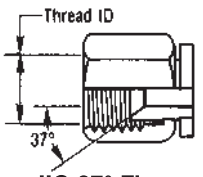
JIC (37° Flare)

DASH	SIZE	THREAD	JM MALE (OD-MM)	JS FEMALE (ID-MM)
02	1/8"	5/16 - 24	7.93	6.74
03	3/16"	3/8 - 24	9.52	8.33
04	1/4"	7/16 - 20	11.11	9.92
05	5/16"	1/2 - 20	12.70	11.50
06	3/8"	9/16 - 18	14.28	12.70
08	1/2"	3/4 - 16	19.05	17.46
10	5/8"	7/8 - 14	22.22	20.63
12	3/4"	1-1/16 - 12	26.78	24.60
14	7/8"	1-3/16 - 12	30.16	28.17
16	1"	1-5/16 - 12	33.33	31.35
20	1-1/4"	1-5/8 - 12	41.27	39.29
24	1-1/2"	1-7/8 - 12	47.62	45.64
32	2"	2-1/2 - 12	63.50	61.51

JIC 37° Flare



JIC 37° Male (JM)



JIC 37° Flare Female (JS)

*SAE (45° Flare)

A term usually applied to fittings having a 45° angle flare or seat. Soft copper tubing is generally used in such applications as it is easily flared to the 45° angle. These are for low-pressure applications — such as for fuel lines and refrigerant lines.

The SAE 45° flare male will mate with an SAE 45° flare female only or a dual seat JIC/SAE 45°.*

The SAE male has straight threads and a 45° flare seat. The SAE female has straight threads and a 45° flare seat. The seal is made on the 45° flare seat.

Some sizes have the same threads as the SAE 37° flare.

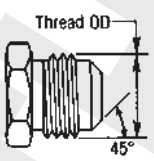
Carefully measure the seat angle to differentiate.

AM / AS

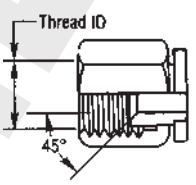
SAE (45° Flare)

DASH	SIZE	THREAD	AM MALE (OD-MM)	AS FEMALE (ID-MM)
02	1/8"	5/16 - 24	7.93	6.74
03	3/16"	3/8 - 24	9.52	8.33
04	1/4"	7/16 - 20	11.11	9.92
05	5/16"	1/2 - 20	12.70	11.50
06	3/8"	5/8 - 18	15.87	14.28
07	7/16"	11/16 - 16	17.46	15.87
08	1/2"	3/4 - 16	19.05	17.46
10	5/8"	7/8 - 14	22.22	20.63
12	3/4"	1-1/16 - 14	26.98	25.00

SAE 45° Flare



SAE 45° Flare Male (AM)



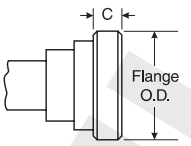
SAE 45° Flare Swivel Female (AS)

O-Ring Flange — SAE J518

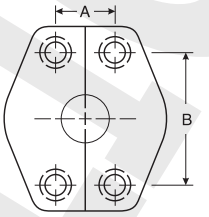
The SAE Code 61 and Code 62 4-Bolt Split Flange is used worldwide, usually as a connection on pumps and motors. There are three exceptions.

1. The -10 size, which is common outside of North America, is not an SAE standard size (generally found on Komatsu equipment).
2. Caterpillar flanges, which are the same flange O.D. as SAE Code 62, have a thicker flange head ("C" dimension in Table).
3. Poclain flanges, which are completely different from SAE flanges.

SAE Code 61 and Code 62



Flange Head



4-Bolt Split Flange Bolt Hose Dimensions

SA / SAH / SAC

O-Ring Flange - SAE J518

		CODE 61 (SA)				CODE 62 (SAH)				CATERPILLAR (SAC)			
DASH	SIZE	Flange (OD-MM)	C (MM)	A (MM)	B (MM)	Flange (OD-MM)	C (MM)	A (MM)	B (MM)	Flange (OD-MM)	C (MM)	A (MM)	B (MM)
08	1/2"	30.18	6.73	17.47	38.10	31.75	7.75	18.23	40.49				
10	5/8"	34.16	6.73										
12	3/4"	38.10	6.73	22.22	47.63	41.28	8.76	23.79	50.80	41.28	14.22	23.82	50.80
16	1"	44.45	8.00	26.18	52.37	47.63	9.53	27.76	57.15	47.63	14.22	27.78	57.15
20	1-1/4"	50.80	8.00	30.17	58.72	53.98	10.29	31.75	66.68	53.98	14.22	31.75	66.67
24	1-1/2"	60.33	8.00	35.71	69.85	63.50	12.57	36.50	79.38	63.50	14.22	36.52	79.37
32	2"	71.42	9.53	42.87	77.77	79.38	12.57	44.45	96.82	79.38	14.22	44.45	96.82
40	2-1/2"	84.12	9.53	50.80	88.90								
48	3"	101.60	9.53	61.92	106.37								
56	3-1/2"	114.30	11.22	69.85	120.65								
64	4"	127.00	11.22	77.77	130.17								
80	5"	152.40	11.22	92.07	152.40								

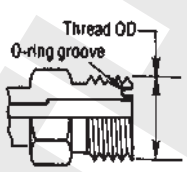
O-Ring Face Seal (ORFS)—SAE J1453

A seal is made when the O-ring in the male contacts the flat face on the female. Couplings are intended for hydraulic systems where elastomeric seals are acceptable to overcome leakage and leak resistance is crucial.

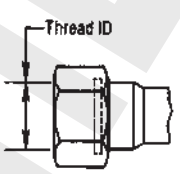
The solid male O-ring face seal fitting will mate with a swivel female O-ring face seal SAE J1453 fitting only.

An O-ring rests in the O-ring groove in the male.

O-Ring Face Seal



Male Flat-Face O-Ring (ORM)



Female Flat-Face O-Ring Swivel (ORS)

ORM / ORS

O-RING FACE SEAL - SAE J1453

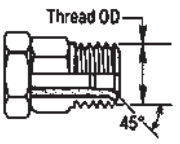
			ORM	ORS
DASH	SIZE	THREAD	MALE (OD-MM)	FEMALE (ID-MM)
04	1/4"	9/16 - 18	14.28	12.70
06	3/8"	11/16 - 16	17.46	15.87
08	1/2"	13/16 - 16	20.64	19.05
10	5/8"	1 - 16	25.40	23.81
12	3/4"	1-3/16 - 12	30.16	28.57
16	1"	1-7/16 - 12	36.51	34.13
20	1-1/4"	1-11/16 - 12	42.86	40.48
24	1-1/2"	2 - 12	50.80	48.41

SAE Inverted Flare

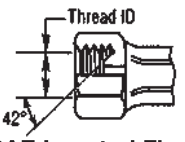
The SAE 45° inverted flare male will mate with an SAE 42° inverted flare female only.

The male has straight threads and a 45° inverted flare. The female has straight threads and a 42° inverted flare. The seal is made on the 45° flare seat on the male and the 42° flare seat on the female.

SAE Inverted Flare



SAE Inverted Flare Swivel Male (IMX)



SAE Inverted Flare Solid Female (MIN)

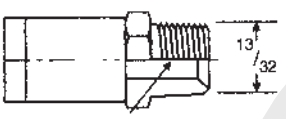
IMX

SAE 45 - INVERT FLARE

DASH	SIZE	THREAD	IMX MALE (OD-MM)	MIN FEMALE (ID-MM)
02	1/8"	5/16 - 28	7.93	6.74
03	3/16"	3/8 - 24	9.52	8.33
04	1/4"	7/16 - 24	11.11	9.92
05	5/16"	1/2 - 20	12.70	11.50
06	3/8"	5/8 - 18	15.87	14.28
07	7/16"	11/16 - 18	17.46	15.87
08	1/2"	3/4 - 18	19.05	17.46
10	5/8"	7/8 - 18	22.22	20.63
12	3/4"	1-1/16 - 16	26.98	25.00

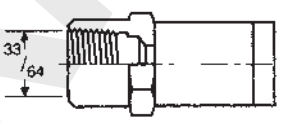
Grease Fittings

Special Male Grease Fitting



1/8–27 Pipe Thread

Special Female Grease Fitting



1/2–27 Tapered Thread

British

It is a common misconception that all foreign threads are metric. This is not always the case. There are two common thread forms: Metric and Whitworth (BSP). The country of origin and the proper nomenclature for each is listed below.

British Standard Pipe Parallel

Popular couplings have British Standard Pipe (BSP) threads, also known as Whitworth threads. These can be parallel threads (BSPP) with a 30° inverted flare or tapered threads (BSPT), with a 30° inverted flare. Port connections are usually made with BSPP threads and a soft metal cutting ring for sealing.

The BSPP (parallel) male will mate with a BSPOR (parallel) female or a female port.

The BSPP male has straight threads and a 30° seat. The BSPOR female has straight threads, a 30° seat, and O-ring. The female port has straight threads and a spotface. The seal on the port is made with an O-ring or soft metal washer on the male.

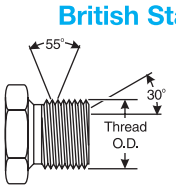
The BSPP (parallel) connector is similar to, but not interchangeable with, the NPSM connector. The thread pitch is different in most sizes, and the thread angle is 55° instead of the 60° angle found on NPSM threads.

BM / BS

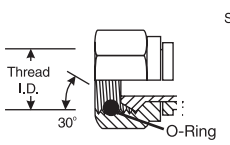
British Standard Pipe Parallel (BSPP)

DASH	SIZE	THREAD	BM MALE (OD-MM)	BS FEMALE (ID-MM)
02	1/8"	1/8 - 28	9.52	8.73
04	1/4"	1/4 - 19	13.20	11.90
06	3/8"	3/8 - 19	16.70	15.30
08	1/2"	1/2 - 14	21.00	19.20
10	5/8"	5/8 - 14	23.01	20.63
12	3/4"	3/4 - 14	26.40	24.60
16	1"	1 - 11	33.30	30.90
20	1-1/4"	1-1/4 - 11	41.90	39.60
24	1-1/2"	1-1/2 - 11	47.80	45.50
32	2"	2 - 11	59.70	57.40

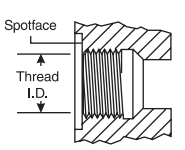
British Standard Pipe Parallel (BSPOR)



BSPP Male (BM)



BSPOR Female (BS)



BSPOR Female Port

British Standard Pipe Tapered

The BSPT (tapered) male will mate with a BSPT (tapered) female, or a BSPOR (parallel) female.

The BSPT male has tapered threads. When mating with either the BSPT (tapered) female or the BSPOR (parallel) female port, the seal is made on the threads.

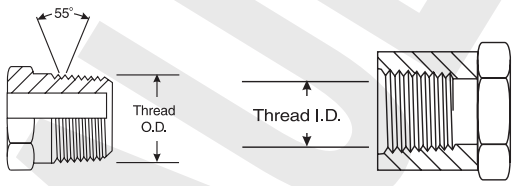
The BSPT connector is similar to, but not interchangeable with, the NPTF connector. The thread pitch is different in most cases, and the thread angle is 55° instead of the 60° angle found on NPTF threads.

BMT / BNT

British Standard Pipe Tapered (BSPT)

DASH	SIZE	THREAD	BMT MALE (OD-MM)	BNT FEMALE (ID-MM)
02	1/8"	1/8 - 28	9.52	8.73
04	1/4"	1/4 - 19	13.20	11.90
06	3/8"	3/8 - 19	16.70	15.30
08	1/2"	1/2 - 14	21.00	19.20
10	5/8"	5/8 - 14	23.01	20.63
12	3/4"	3/4 - 14	26.40	24.60
16	1"	1 - 11	33.30	30.90
20	1-1/4"	1-1/4 - 11	41.90	39.60
24	1-1/2"	1-1/2 - 11	47.80	45.50
32	2"	2 - 11	59.70	57.40

British Standard Pipe Tapered (BSPT)



BSPT Male (BMT)

BSPT Female (BNT)

British Flat-Face Seal

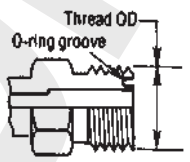
A seal is made when the O-ring in the male contacts the flat face on the female. These couplings are intended for hydraulic systems where elastomeric seals are acceptable to overcome leakage and leak resistance is crucial.

The solid male British O-ring face seal fitting will mate with a swivel female British O-ring face seal fitting only. An O-ring rests in the O-ring groove in the male.

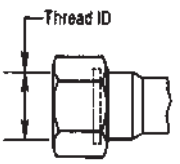
BSF

British Flat-Face Seal

DASH	SIZE	THREAD	BMF MALE (OD-MM)	BSF FEMALE (ID-MM)
06	3/8"	3/8 - 19	16.70	15.30
08	1/2"	1/2 - 14	21.00	19.20
12	3/4"	3/4 - 14	26.40	24.60



Male British Flat-Face (BMF)



Female British Flat-Face (BSF)

French

Popular couplings are French GAZ. These have a 24° seat and metric threads. These are similar to German DIN couplings, but the threads are different in some sizes. Although both are metric threads, the French use fine threads in all sizes and German DIN couplings use coarse threads in larger sizes. Most port connections are flange connections. French flanges are different than SAE—they have a lip that protrudes from the flange face. These are called Poclain-style flanges.

GAZ 24°

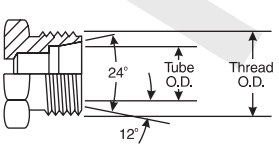
The French Metric (GAZ) male will mate with the female 24° cone or the female tube fitting.

The male has a 24° seat and straight metric threads. The female has a 24° seat or a tubing sleeve and straight metric threads.

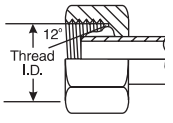
When measuring the flare angle with the seat angle gauge, use the 12° gauge. (The seat angle gauge measures the angle from the connector centerline.)

Metric Thread Size	Female Thread I.D. (mm)	Male Thread O.D. (mm)	Tube O.D. (mm)
M20x1.5	18.5	20.0	13.25
M24x1.5	22.5	24.0	16.75
M30x1.5	28.5	30.0	21.25
M36x1.5	34.5	36.0	26.75
M45x1.5	43.5	45.0	33.50
M52x1.5	50.5	52.0	42.25

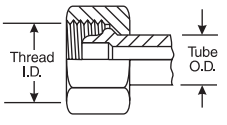
French Metric (GAZ)



Male 24° Cone



Female 24° Cone



Female Tube Fitting

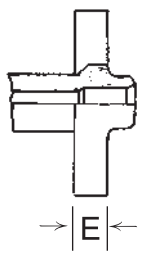
GAZ Poclain 24° Flange

The Poclain (French GAZ) 24° high pressure flange is usually found on Poclain equipment.

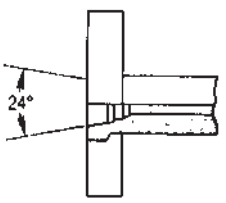
The male flange will mate with a female flange or a port. The seal is made on the 24° seat.

Nominal Size (In.)	A (In.)	B (In.)	C (In.)	D (In.)	E (In.)	F (In.)
1/2	1.57	.72	2.20	1.89	.55	.35
5/8	1.57	.72	2.20	1.89	.55	.35
3/4	2.00	.94	2.75	2.38	.71	.43

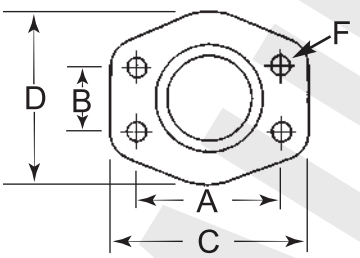
Poclain (French GAZ)



Male Flange



Female Flange



Flange Clamp

German DIN (Deutsche Industrial Norme)

Popular couplings are German DIN (Deutsche Industrial Norme). A coupling referred to as "metric" usually means a DIN coupling.

DIN 24° Cone

The DIN 24° cone male will mate with any of the females shown.

The male has a 24° seat, straight metric threads, and a recessed counterbore which matches the tube O.D. of the coupling used with it. The mating female is a 24° cone with O-ring, a metric tube fitting or a universal 24° and 60° cone.

There is a light and heavy series DIN coupling. Proper identification is made by measuring both the thread size and the tube O.D. (The heavy series has a smaller tube O.D. but a thicker wall section than the light.)

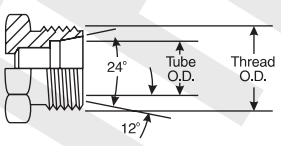
When measuring the flare angle with the seat angle gauge, use the 12° gauge. (The seat angle gauge measures the angle from the connector centerline.)

ULM/ULS - VHM/VHS

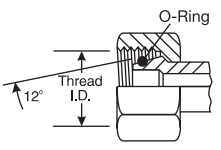
DIN 24° Cone

ULM/ULS Tube OD Light	VHM/VHS Tube OD Heavy	THREAD	MALE (OD-MM)	FEMALE (ID-MM)
6		M12x1.5	12.00	10.50
8	6	M14x1.5	14.00	12.50
10	8	M16x1.5	16.00	14.50
12	10	M18x1.5	18.00	16.50
	12	M20x1.5	20.00	18.50
15	14	M22x1.5	22.00	20.50
	16	M24x1.5	24.00	22.50
18		M26x1.5	26.00	24.50
22	20	M30x2.0	30.00	28.00
28	25	M36x2.0	36.00	34.00
	30	M42x2.0	42.00	40.00
35		M45x2.0	45.00	43.00
42	38	M52x2.0	52.00	50.00

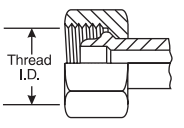
DIN 24° Male and Mating Females



Male 24° Cone, DIN 2353 (ULM/VHM)



Female 24° Cone with O-Ring (ULOS/VHOS)



Female Universal 24° and 60° Cone (ULS/VHS)

DIN 60° Cone

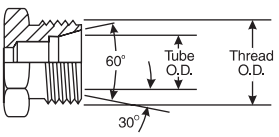
The DIN 60° cone male will mate with the female universal 24° or 60° cone connector only.

The male has a 60° seat and straight metric threads. The female has a 24° and 60° universal seat and straight metric threads.

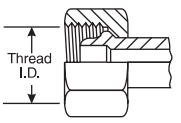
When measuring the flare angle with the seat angle gauge, use the 30° gauge. (The seat angle gauge measures the angle from the connector centerline.)

Metric Thread Size	Female Thread	Male Thread	Tube O.D.
	I.D. (mm)	O.D. (mm)	(mm)
M14x1.5	12.5	14.0	8
M16x1.5	14.5	16.0	10
M18x1.5	16.5	18.0	12
M22x1.5	20.5	22.0	15
M26x1.5	24.5	26.0	18
M30x1.5	28.5	30.0	22
M38x1.5	36.5	38.0	28
M45x1.5	43.5	45.0	35
M52x2.0	50.5	52.0	42

DIN 60° Male and Mating Female



Male
60° Cone, DIN 6711



Female
Universal 24° and 60° Cone
(ZIS)

Japanese

There are two popular types of coupling styles in Japan, Japanese Industrial Standard and Komatsu. These couplings look similar to Male JIC and Female JIC Swivel couplings. There are two major differences: The threads are BSP and the seat angle is only 30° instead of 37° for JIC.

1. **Japanese Industrial Standard.** Most Japanese equipment use this type of coupling with a 30° seat and British Standard Pipe Parallel threads. **They are not interchangeable with British couplings, since the flare is not inverted.**

2. **Komatsu.** All Komatsu equipment uses couplings with a 30° seat and metric fine threads. All flanges are Code 61 or Code 62, except -10 which utilizes a special Komatsu-style flange that does not conform to SAE standard sizing.

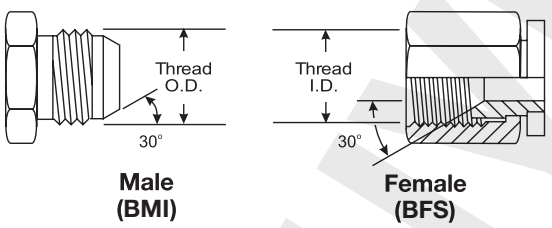
Japanese 30° Flare Parallel Threads

The Japanese 30° flare male connector will mate with a Japanese 30° flare female only.

The male and female have straight threads and a 30° seat. The seal is made on the 30° seat.

The threads on the Japanese 30° flare connector conform to JIS B 0202, which are the same as the BSPOR threads. Both the British and Japanese connectors have a 30° seat, but they are not interchangeable because the British seat is inverted.

Japanese 30° Flare



BMI / BFS

Japanese 30° Flare Parallel Threads (JIS B 0202)

DASH	SIZE	THREAD	BMI MALE (OD-MM)	BFS FEMALE (ID-MM)
02	1/8"	1/8 - 28	9.52	8.73
04	1/4"	1/4 - 19	13.20	11.90
06	3/8"	3/8 - 19	16.70	15.30
08	1/2"	1/2 - 14	21.00	19.20
10	5/8"	5/8 - 14	23.01	20.63
12	3/4"	3/4 - 14	26.40	24.60
16	1"	1 - 11	33.30	30.90
20	1-1/4"	1-1/4 - 11	41.90	39.60
24	1-1/2"	1-1/2 - 11	47.80	45.50
32	2"	2 - 11	59.70	57.40

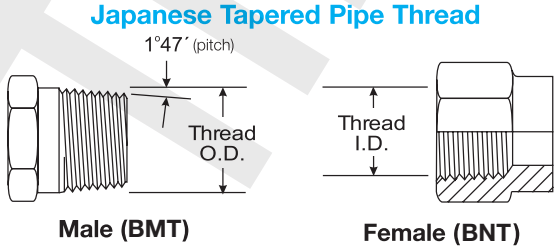
Japanese Tapered Pipe Thread

The Japanese tapered pipe thread connector is identical to and fully interchangeable with the BSPT (tapered) connector. **The Japanese connector does not have a 30° flare and will not mate with the BSPOR female.**

The threads conform to JIS B 0203, which are the same as BSPT threads.

The seal on the Japanese tapered pipe thread connector is made on the threads.

Japanese Tapered Pipe Thread



BMT / BNT

British Standard Pipe Tapered (BSPT)

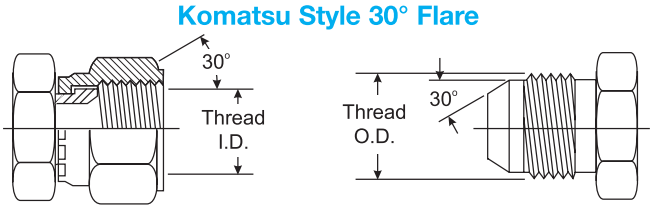
DASH	SIZE	THREAD	BMT MALE (OD-MM)	BNT FEMALE (ID-MM)
02	1/8"	1/8 - 28	9.52	8.73
04	1/4"	1/4 - 19	13.20	11.90
06	3/8"	3/8 - 19	16.70	15.30
08	1/2"	1/2 - 14	21.00	19.20
10	5/8"	5/8 - 14	23.01	20.63
12	3/4"	3/4 - 14	26.40	24.60
16	1"	1 - 11	33.30	30.90
20	1-1/4"	1-1/4 - 11	41.90	39.60
24	1-1/2"	1-1/2 - 11	47.80	45.50
32	2"	2 - 11	59.70	57.40

Komatsu Style 30° Flare Parallel Threads

The Komatsu style 30° flare parallel thread connector is identical to the Japanese 30° flare parallel thread connector except for the threads. The Komatsu style connector uses metric fine threads which conform to JIS B 0207. Gates identifies these as Komatsu-style by marking the hex nuts with two small notches.

The Komatsu style connector seals on the 30° flare.

Komatsu Style 30° Flare



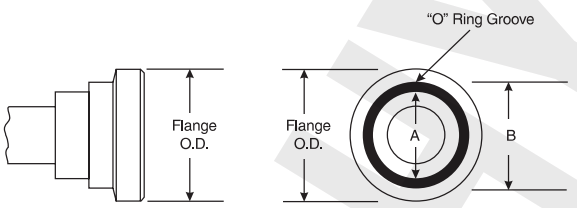
Female (KS) **Male (KM)**

Dash Size	Nominal Size		Thread Size	Female Thread I.D. (mm)	Male Thread (O.D.) (mm)
	(In.)	(mm)			
-6	3/8	9.5	M18x1.5	16.5	18
-8	1/2	13	M22x1.5	20.5	22
-10	5/8	16	M24x1.5	22.5	24
-12	3/4	19	M30x1.5	28.5	30
-16	1	25	M33x1.5	31.5	33
-20	1-1/4	32	M36x1.5	34.5	36
-24	1-1/2	38	M42x1.5	40.5	42

Komatsu Style Flange Fitting

The Komatsu style flange fitting is nearly identical to and fully interchangeable with the SAE Code 61 flange fitting. In all sizes the O-ring dimensions are different. When replacing a Komatsu style flange with an SAE style flange, an SAE style O-ring must always be used.

Komatsu Style Flange Fitting



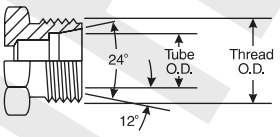
Flange **Flange Head**

KOMATSU STYLE FLANGE FITTING

DASH	SIZE	Flange (OD-MM)	Thick(MM)
08	1/2"	30.18	6.73
10	5/8"	34.16	6.73
12	3/4"	38.10	6.73
16	1"	44.45	8.00
20	1-1/4"	50.80	8.00
24	1-1/2"	60.33	8.00
32	2"	71.42	9.53

Metric Kobelco Metric Bite Sleeve

These are similar to the German DIN 24° Cone, but the DIN style uses courser threads. Therefore, the Kobelco and German DIN are not interchangeable.



Male 24° Cone (KC)

Dash Size	Metric Thread Size	Female Thread I.D. (mm)	Male Thread O.D. (mm)
-22	M30X1.5	28	30
-28	M36X1.5	34	36
-35	M45X1.5	43	45