



Moulding Components and Fittings



Table of Contents

Air Valve	3
Latent Runner Insert	4
Brass Extension Plugs	5
Connector Plug	5
Brass Socket Connector	6
Connector Seals	6
Pressure Plugs	6
Brass Pipe Fittings	7-8
Hex Nipple	8
Brass Nipples	9
Brass Hose Barbs	10
Lock-On Hose Barbs	11
Galvanized Pipe Fittings	12-13
Air Coupler	14-17
Push Connect Brass Fittings	18-19
Push Connect Plastic Fittings	20-21
Valves	22
Cam and Groove Couplings	23-24
Nipples and Menders	24
Clamps	25
Tubing	26
Hoses	27-28
Water Manifolds	29
Fasteners	30-33
Terms and Conditions	34

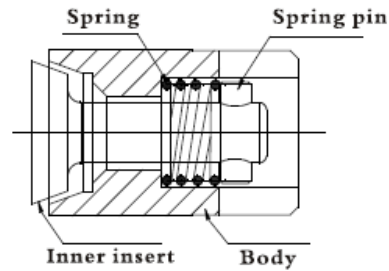
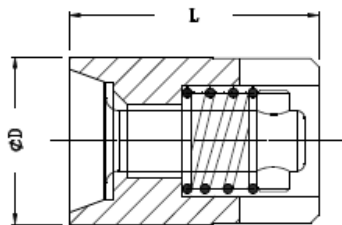


Imperial Air Valves



Material: SUS420
Hardness: 42 HRC
Pressure: 60 psi

Part No.	D +.0003 -.0000	L +.002 -.000
PMS PPV-025	.2504	.375
PMS PPV-037	.3755	.375
PMS PPV-050	.5005	.500
PMS PPV-075	.7504	.750
PMS PPV-100	1.0004	1.000
PMS PPV-150	1.5008	1.500

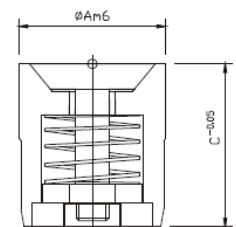
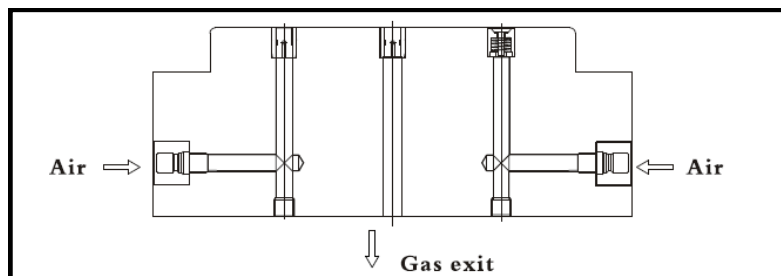


Metric Air Valves

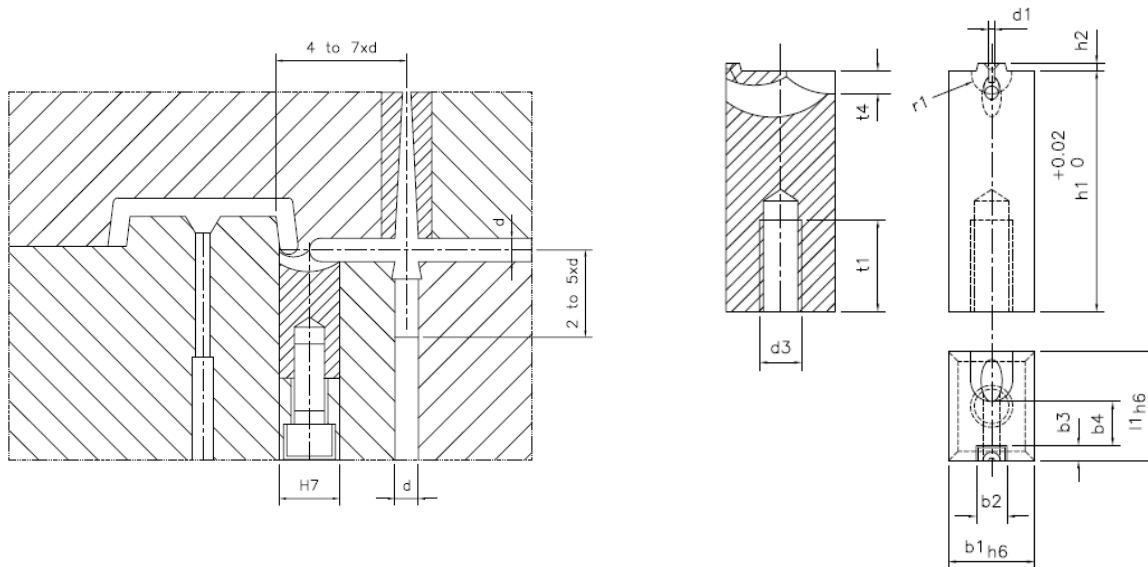


Material: SUS420
Hardness: 42 HRC
Pressure: 60 psi

Part No.	A	C
PMS VVA-065212	6	12
PMS VVA-086512	8	12
PMS VVA-100812	10	12
PMS VVA-121012	12	12
PMS VVA-161320	16	20
PMS VVA-201720	20	20



Square Gate Inserts



Material: 718

Part No.	d1	l1	b1	h1	r1	t1	t4	b2	b3	b4	d3	h2
LRD 8 x17	0.4	8	6	17	1.5	8	2	2.6	1.3	3.7	M4	0.8
	0.6											
	0.8											
LRD 10 x 22	0.6	10	8	22	2	8	2	2.6	1.3	3.7	M4	0.8
	0.8											
	1.0											
LRD 12 x 10	0.6	12	10	27	2.25	10	2.25	3.0	1.5	4.5	M5	0.8
	0.8											
	1.0											
LRD 15 x 12	0.8	15	12	27	2.5	10	2.5	3.5	1.75	5	M6	0.8
	1.0											
	1.2											

Brass Extension Plugs

200 Series	Part No.	L	Pipe Thread Size	Hex Size
	PMS-251 x 4	4	1/8	7/16
	PMS-251 x 6	6	1/8	7/16
	PMS-251 x 8	8	1/8	7/16
	PMS-252 x 4	4	1/4	9/16
	PMS-252 x 6	6	1/4	9/16
	PMS-252 x 8	8	1/4	9/16
	PMS-253 x 4	4	3/8	11/16
	PMS-253 x 6	6	3/8	11/16
	PMS-253 x 8	8	3/8	11/16



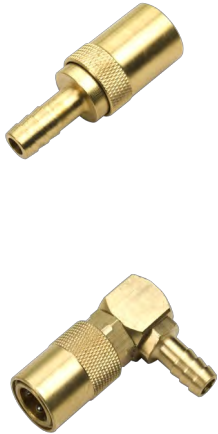
300 Series	Part No.	L	Pipe Thread Size	Hex Size
	PMS-351 x 4	4	1/8	9/16
	PMS-351 x 6	6	1/8	9/16
	PMS-351 x 8	8	1/8	9/16
	PMS-352 x 4	4	1/4	9/16
	PMS-352 x 6	6	1/4	9/16
	PMS-352 x 8	8	1/4	9/16
	PMS-353 x 4	4	3/8	11/16
	PMS-353 x 6	6	3/8	11/16
	PMS-353 x 8	8	3/8	11/16

Connector Plugs



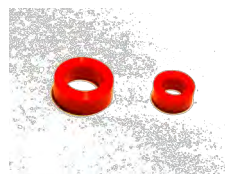
MALE				FEMALE			Used with Sockets
Part No.		Pipe Thread	Hole Ø	Part No.	Pipe Thread	Hole Ø	
200 Series	PMS-250	1/16 NPT	3/16	PMS-0250F	1/16 NPT	1/4	PMS 204 to PMS 226
	PMS-251	1/8 NPT	1/4	PMS-0251F	1/8 NPT	1/4	
	PMS-252	1/4 NPT	1/4	PMS-0252F	1/4 NPT	1/4	
	PMS-253	3/8 NPT	1/4	PMS-0253F	3/8 NPT	1/4	
300 Series	PMS-351	1/8 NPT	1/4	PMS-0351F	1/8 NPT	11/32	PMS 306 to PMS 328
	PMS-352	1/4 NPT	3/8	PMS-0352F	1/4 NPT	3/8	
	PMS-353	3/8 NPT	3/8	PMS-0353F	3/8 NPT	3/8	
	PMS-354	1/2 NPT	3/8	PMS-0354F	1/2 NPT	3/8	
500 Series	PMS-553	3/8 NPT	7/16	PMS-0553F	3/8 NPT	9/16	PMS 504 to PMS 526
	PMS-554	1/2 NPT	5/8	PMS-0554F	1/2 NPT	5/8	
	PMS-556	3/4 NPT	5/8	PMS-0556F	3/4 NPT	5/8	

Brass Socket Connector



Description	Part No.	Fits Hose I.D.	Hole Ø
Straight Stem	PMS-204	1/4	3/16
	PMS-205	5/16	1/4
	PMS-206	3/8	1/4
	PMS-306	3/8	1/4
	PMS-308	1/2	3/8
	PMS-504	1/2	3/8
	PMS-506	3/4	5/8
90° Stem	PMS-214	1/4	3/16
	PMS-215	5/16	1/4
	PMS-216	3/8	1/4
	PMS-316	3/8	1/4
	PMS-318	1/2	3/8
	PMS-514	1/2	3/8
	PMS-516	3/4	9/16
45° Stem	PMS-224	1/4	3/16
	PMS-225	5/16	1/4
	PMS-226	3/8	1/4
	PMS-326	3/8	1/4
	PMS-328	1/2	3/8
	PMS-524	1/2	3/8
	PMS-526	3/4	9/16

Connector Seals



Silica	Viton
PMS-200-6	PMS-200-8
PMS-300-6	PMS-300-8
PMS-500-6	PMS-500-8



Pressure Plugs

Part No.	Pipe Thread	Length	Hex Size	Thread Taps (inch)	Tap Drill
PMS 10	1/8 NPT	.250	3/16	27	21/64
PMS 20	1/4 NPT	.406	1/4	18	27/64
PMS 40	3/8 NPT	.406	5/16	18	9/16
PMS 60	1/2 NPT	.531	3/8	14	11/16
PMS 100	3/4 NPT	.531	9/16	14	57/64
PMS 140	1 NPT	.656	5/8	11.5	1 1/8



Brass Pipe Fittings

Description	Part No.	NPT
90° Female Elbow	BP9F-A	1/8
	BP9F-B	1/4
	BP9F-C	3/8
	BP9F-D	1/2
	BP9F-E	1/2
45° Female Elbow	BP4F-A	1/8
	BP4F-B	1/4
Female Tee	BPTF-A	1/8
	BPTF-B	1/4
	BPTF-C	3/8
	BPTF-D	1/2
Female Cross	BPXF-A	1/8
	BPXF-B	1/4
	BPXF-C	3/8
	BPXF-D	1/2
Female Coupling	BPCF-A	1/8
	BPCF-B	1/4
	BPCF-C	3/8
	BPCF-D	1/2
	BPCF-E	3/4

Description	Part No.	M X F
Pipe Bushing	BPB-BA	1/4 x 1/8
	BPB-CB	3/8 x 1/4
	BPB-DA	1/2 x 1/8
	BPB-DB	1/2 x 1/4
	BPB-DC	1/2 x 3/8
	BPB-EA	3/4 x 1/8
	BPB-EB	3/4 x 1/4
	BPB-EC	3/4 x 3/8
	BPB-ED	3/4 x 1/2

Description	Part No.	NPT
Cap	BPC-A	1/8
	BPC-B	1/4
	BPC-C	3/8
	BPC-D	1/2
	BPC-E	3/4
	BPC-F	1
Square Head Plug	BPSP-A	1/8
	BPSP-B	1/4
	BPSP-C	3/8
	BPSP-D	1/2
Hex Head Plug	BPHP-A	1/8
	BPHP-B	1/4
	BPHP-C	3/8
	BPHP-D	1/2

Description	Part No.	M X F
Pipe Adaptor	BPA-AA	1/8 x 1/8
	BPA-BA	1/4 x 1/8
	BPA-BB	1/4 x 1/4
	BPA-CB	3/8 x 1/4
	BPA-CC	3/8 x 3/8
	BPA-DC	1/2 x 3/8
	BPA-DD	1/2 x 1/2
	BPA-ED	3/4 x 1/2

Max. Working Pressure:

1. Bar stock, Extruded and Forged:

Fittings up to 3/4 NPT, 1200 psi

2. Cast: 125 psi

Temperature Range: -65 ° to 250 °F

Recommended Assembly:

Hand tighten then turn 2 1/2—3 1/2 turns with wrench

Brass Pipe Fittings



Description	Part No.	NPT (all)
90° Street Elbow Extruded	BPE9S-A	1/8
	BPE9S-B	1/4
	BPE9S-C	3/8
	BPE9S-D	1/2
	BPE9S-E	3/4
45° Street Elbow Extruded	BPE4S-A	1/8
	BPE4S-B	1/4
	BPE4S-C	3/8
	BPE4S-D	1/2
90° Street Elbow Forged	BPF9S-A	1/8
	BPF9S-B	1/4
	BPF9S-C	3/8
	BPF9S-D	1/2
	BPF9S-E	3/4



Hex Nipple	Part No.	PIPE SIZE
	BPHN-A	1/8
	BPHN-B	1/4
	BPHN-C	3/8
	BPHN-D	1/2
	BPHN-BA	1/4 x 1/8
	BPHN-CB	3/8 x 1/4
	BPHN-DC	1/2 x 3/8
	BPHN-ED	3/4 x 1/2



Description	Part No.	NPT (all)
Branch Tee	BPBT-A	1/8
	BPBT-B	1/4
	BPBT-C	3/8
	BPBT-D	1/2
Run (Street) Tee	BPRT-A	1/8
	BPRT-B	1/4
	BPRT-C	3/8
	BPRT-D	1/2



Product	Part No.	Description
Teflon Tape -White	TT-M8	1/2" x 520"
Teflon Tape -Pink	TTH-M8	1/2" x 260"

Brass Pipe Fittings - Nipple

LONG 1/8" - 3/4" NPT	L	1/8 — 27 NPT	1/4 — 18 NPT	3/8 — 18 NPT	1/2 — 14 NPT	3/4 — 14 NPT
	1 1/2	BPNL-A11/2	BPNL-B11/2	BPNL-C11/2	BPNL-D11/2	BPNL-E11/2
	2	BPNL-A2	BPNL-B2	BPNL-C2	BPNL-D2	BPNL-E2
	2 1/2	BPNL-A21/2	BPNL-B21/2	BPNL-C21/2	BPNL-D21/2	BPNL-E21/2
	3	BPNL-A3	BPNL-B3	BPNL-C3	BPNL-D3	BPNL-E3
	3 1/2	BPNL-A31/2	BPNL-B31/2	BPNL-C31/2	BPNL-D31/2	BPNL-E31/2
	4	BPNL-A4	BPNL-B4	BPNL-C4	BPNL-D4	BPNL-E4
	4 1/2	BPNL-A41/2	BPNL-B41/2	BPNL-C41/2	BPNL-D41/2	BPNL-E41/2
	5	BPNL-A5	BPNL-B5	BPNL-C5	BPNL-D5	BPNL-E5
	5 1/2	BPNL-A51/2	BPNL-B51/2	BPNL-C51/2	BPNL-D51/2	BPNL-E51/2
	6	BPNL-A6	BPNL-B6	BPNL-C6	BPNL-D6	BPNL-E6

LONG 1" - 1 1/2" NPT	L	1 — 11 1/2 NPT	1 1/4 — 11 1/2 NPT	1 1/2 — 11 1/2 NPT
	2	BPNL-F2	BPNL-G2	BPNL-H2
	2 1/2	BPNL-F21/2	BPNL-G21/2	BPNL-H21/2
	3	BPNL-F3	BPNL-G3	BPNL-H3
	3 1/2	BPNL-F31/2	BPNL-G31/2	BPNL-H31/2
	4	BPNL-F4	BPNL-G4	BPNL-H4
	4 1/2	BPNL-F41/2	BPNL-G41/2	BPNL-H41/2
	5	BPNL-F5	BPNL-G5	BPNL-H5
	5 1/2	BPNL-F51/2	BPNL-G51/2	BPNL-H51/2
	6	BPNL-F6	BPNL-G6	BPNL-H6



CLOSE	Part No.	PIPE SIZE
	BPNS-A	1/8
	BPNS-B	1/4
	BPNS-C	3/8
	BPNS-D	1/2
	BPNS-E	3/4
	BPNS-F	1
	BPNS-G	1 1/4
	BPNS-H	1 1/2
	BPNS-I	2



Brass Hose Barbs

Male Hose Barb	Part No.	Hose ID x MPT
	BHBM-4A	1/4 x 1/8
	BHBM-4B	1/4 x 1/4
	BHBM-4C	1/4 x 3/8
	BHBM-4D	1/4 x 1/2
	BHBM-5A	5/16 x 1/8
	BHBM-5B	5/16 x 1/4
	BHBM-5C	5/16 x 3/8
	BHBM-6A	3/8 x 1/8
	BHBM-6B	3/8 x 1/4
	BHBM-6C	3/8 x 3/8
	BHBM-6D	3/8 x 1/2
	BHBM-6E	3/8 x 3/4
	BHBM-8B	1/2 x 1/4
	BHBM-8C	1/2 x 3/8
	BHBM-8D	1/2 x 1/2
	BHBM-8E	1/2 x 3/4
	BHBM-10C	5/8 x 3/8
	BHBM-10D	5/8 x 1/2
	BHBM-10E	5/8 x 3/4
	BHBM-12D	3/4 x 1/2
	BHBM-12E	3/4 x 3/4
	BHBM-16E	1 x 3/4

Male Hose Barb Elbow 45 °	Part No.	Hose ID x MPT
	BHB4M-6A	3/8 x 1/8
	BHB4M-6B	3/8 x 1/4
	BHB4M-6C	3/8 x 3/8

Part No.	Hose ID	Hose Barb Slicer
BHBS-3	3/16	
BHBS-4	1/4	
BHBS-5	5/16	
BHBS-6	3/8	
BHBS-8	1/2	

Part No.	Hose ID x MPT	Male Hose Barb Elbow 90 °
BHB9M-4A	1/4 x 1/8	
BHB9M-4B	1/4 x 1/4	
BHB9M-6B	3/8 x 1/4	
BHB9M-6C	3/8 x 3/8	
BHB9M-8B	1/2 x 1/4	
BHB9M-8C	1/2 x 3/8	
BHB9M-10C	5/8 x 3/8	
BHB9M-10D	5/8 x 1/2	

Part No.	Hose ID x FPT	Female Hose
BHBF-4A	1/4 x 1/8	
BHBF-4B	1/4 x 1/4	
BHBF-5B	5/16 x 1/4	
BHBF-6A	3/8 x 1/8	
BHBF-6B	3/8 x 1/4	
BHBF-6C	3/8 x 3/8	
BHBF-6D	3/8 x 1/2	
BHBF-8C	1/2 x 3/8	
BHBF-8D	1/2 x 1/2	

Recommended Max. Working Pressure: 150 psi

Temperature Range: -40 ° to 160 °F

Recommended Assembly:

1. Cut hose squarely to length
2. Slide hose clamp or Ferrule onto hose
3. Lubricate hose barb
4. Push hose onto barb until it bottoms onto hex or shoulder
5. Place hose approx., 1/4" back from hex and tighten or crimp ferrule

Brass Hose Barbs — Lock On

Male Hose Barb	Part No.	Hose ID x MPT
	BLOM-4A	1/4 x 1/8
	BLOM-4B	1/4 x 1/4
	BLOM-6A	3/8 x 1/8
	BLOM-6B	3/8 x 1/4
	BLOM-6C	3/8 x 3/8
	BLOM-6D	3/8 x 1/2
	BLOM-8B	1/2 x 1/4
	BLOM-8C	1/2 x 3/8
	BLOM-8D	1/2 x 1/2
	BLOM-10D	5/8 x 1/2
	BLOM-12E	3/4 x 3/4

Part No.	Hose ID	Hose Barb Splicer
BLOS-4	1/4	
BLOS-6	3/8	
BLOS-8	1/2	
BLOS-10	5/8	
BLOS-12	3/4	

Part No.	Hose ID x MJIC	Male JIC Hose Barb
BLOM37-44	1/4 x 1/4	
BLOM37-66	3/8 x 3/8	
BLOM37-88	1/2 x 1/2	

Female Hose Barb	Part No.	Hose ID x MPT
	BLOF-4A	1/4 x 1/8
	BLOF-4B	1/4 x 1/4
	BLOF-6B	3/8 x 1/4
	BLOF-6C	3/8 x 3/8
	BLOF-8C	1/2 x 3/8
	BLOF-8D	1/2 x 1/2

Part No.	Hose ID x FJIC	Female JIC Swivel Hose Barb
BLOF37-44	1/4 x 1/4	
BLOF37-66	3/8 x 3/8	
BLOF37-88	1/2 x 1/2	
BLOF37-1010	5/8 x 5/8	
BLOF37-1212	3/4 x 3/4	

Male SAE Hose Barb	Part No.	Hose ID x
	BLOM45-44	1/4 x 1/4
	BLOM45-66	3/8 x 3/8
	BLOM45-88	1/2 x 1/2

Female SAE Swivel Hose Barb	Part No.	Hose ID x FSAE
	BLOF45-44	1/4 x 1/4
	BLOF45-66	3/8 x 3/8
	BLOF45-68	3/8 x 1/2
	BLOF45-88	1/2 x 1/2
	BLOF45-1010	5/8 x 5/8
	BLOF45-1212	3/4 x 3/4

Working Pressure: Up to 350 psi, reference to pressure on hose being used

Temperature Range: -40 ° to 200 °F depending on hose used

Recommended Assembly:

1. Cut hose square
2. Lubricate barb end
3. Clamp fitting in vise and push hose straight onto barb until hose is protected under dust cover
4. Place hose approx., 1/4" back from hex and tighten or crimp ferrule

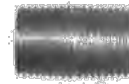
Galvanized Pipe Fittings



NPT	45° Elbow	90° Elbow	Female "T"	Female Coupling	Cap Female	Square Head Plug	Hex Plug
1/8	GP4F-A	GP9F-A	GPTF-A	GPCF-A	GPC-A	GSHP-A	GHP-A
1/4	GP4F-B	GP9F-B	GPTF-B	GPCF-B	GPC-B	GSHP-B	GHP-B
3/8	GP4F-C	GP9F-C	GPTF-C	GPCF-C	GPC-C	GSHP-C	GHP-C
1/2	GP4F-D	GP9F-D	GPTF-D	GPCF-D	GPC-D	GSHP-D	GHP-D
3/4	GP4F-E	GP9F-E	GPTF-E	GPCF-E	GPC-E	GSHP-E	GHP-E
1	GP4F-F	GP9F-F	GPTF-F	GPCF-F	GPC-F	GSHP-F	GHP-F
1 1/4	GP4F-G	GP9F-G	GPTF-G	GPCF-G	GPC-G	GSHP-G	GHP-G
1 1/2	GP4F-H	GP9F-H	GPTF-H	GPCF-H	GPC-H	GSHP-H	GHP-H

Description	Part No.	M X F
 Pipe Bushing	GPB-BA	1/4 x 1/8
	GPB-CB	3/8 x 1/4
	GPB-DA	1/2 x 1/8
	GPB-DB	1/2 x 1/4
	GPB-DC	1/2 x 3/8
	GPB-EA	3/4 x 1/8
	GPB-EB	3/4 x 1/4
	GPB-EC	3/4 x 3/8
	GPB-ED	3/4 x 1/2
	GPB-FD	1 x 1/2
	GPB-FE	1 x 3/4

Close Nipple	Part No.	NPT	Length
	GCN-A	1/8	3/4
	GCN-B	1/4	7/8
	GCN-C	3/8	1
	GCN-D	1/2	1 1/8
	GCN-E	3/4	1 3/8
	GCN-F	1	1 1/2
	GCN-G	1 1/4	1 5/8
	GCN-H	1 1/2	1 3/4



Galvanized Fittings are Schedule 40
 Additional Sizes are available, please inquire.
 90 deg Galvanized Street Elbows are available:
 When ordering, replace GP9F with GP9S.

Galvanized Pipe Fittings

LONG NIPPLES 1/8" - 3/4" NPT	L	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT
	1 1/2	GPN-A1 1/2	GPN-B11/2	GPN-C11/2	GPN-D11/2	GPN-E11/2
	2	GPN-A2	GPN-B2	GPN-C2	GPN-D2	GPN-E2
	2 1/2	GPN-A21/2	GPN-B21/2	GPN-C21/2	GPN-D21/2	GPN-E21/2
	3	GPN-A3	GPN-B3	GPN-C3	GPN-D3	GPN-E3
	3 1/2	GPN-A31/2	GPN-B31/2	GPN-C31/2	GPN-D31/2	GPN-E31/2
	4	GPN-A4	GPN-B4	GPN-C4	GPN-D4	GPN-E4
	4 1/2	GPN-A41/2	GPN-B41/2	GPN-C41/2	GPN-D41/2	GPN-E41/2
	5	GPN-A5	GPN-B5	GPN-C5	GPN-D5	GPN-E5
	5 1/2	GPN-A51/2	GPN-B51/2	GPN-C51/2	GPN-D51/2	GPN-E51/2
	6	GPN-A6	GPN-B6	GPN-C6	GPN-D6	GPN-E6
	7	GPN-A7	GPN-B7	GPN-C7	GPN-D7	GPN-E7
	8	GPN-A8	GPN-B8	GPN-C8	GPN-D8	GPN-E8
	9	GPN-A9	GPN-B9	GPN-C9	GPN-D9	GPN-E9
	10	GPN-A10	GPN-B10	GPN-C10	GPN-D10	GPN-E10
	11	GPN-A11	GPN-B11	GPN-C11	GPN-D11	GPN-E11
	12	GPN-A12	GPN-B12	GPN-C12	GPN-D12	GPN-E12

LONG NIPPLES 1" - 2" NPT	L	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT
	2	GPN-F2	GPN-G2	GPN-H2	
	2 1/2	GPN-F21/2	GPN-G21/2	GPN-H21/2	GPN-I21/2
	3	GPN-F3	GPN-G3	GPN-H3	GPN-I3
	3 1/2	GPN-F31/2	GPN-G31/2	GPN-H31/2	GPN-I31/2
	4	GPN-F4	GPN-G4	GPN-H4	GPN-I4
	4 1/2	GPN-F41/2	GPN-G41/2	GPN-H41/2	GPN-I41/2
	5	GPN-F5	GPN-G5	GPN-H5	GPN-I5
	5 1/2	GPN-F51/2	GPN-G51/2	GPN-H51/2	GPN-I51/2
	6	GPN-F6	GPN-G6	GPN-H6	GPN-I6
	7	GPN-F7	GPN-G7	GPN-H7	GPN-I7
	8	GPN-F8	GPN-G8	GPN-H8	GPN-I8
	9	GPN-F9	GPN-G9	GPN-H9	GPN-I9
	10	GPN-F10	GPN-G10	GPN-H10	GPN-I10
	11	GPN-F11	GPN-G11	GPN-H11	GPN-I11
	12	GPN-F12	GPN-G12	GPN-H12	GPN-I12



Air Couplers

For easy identification of popular pneumatic quick couplings use these actual size silhouettes

Automotive Interchange



Industrial Interchange



Aro Interchange



Air Couplers

Automotive Interchange

COUPLERS			
Description	Part No.	Body Size	NPT
 Male	AI C4M-B	1/4	1/4
	AI C4M-C	1/4	3/8
	AI C6M-B	3/8	1/4
	AI C6M-C	3/8	3/8
	AI C6M-D	3/8	1/2
	AI C8M-C	1/2	3/8
	AI C8M-D	1/2	1/2
 Female	AI C4F-B	1/4	1/4
	AI C4F-C	1/4	3/8
	AI C6F-B	3/8	1/4
	AI C6F-C	3/8	3/8
	AI C6F-D	3/8	1/2
	AI C8F-C	1/2	3/8
	AI C8F-D	1/2	1/2
 Hose	AI C4H-B	1/4	1/4
	AI C4H-C	1/4	3/8
	AI C6H-C	3/8	3/8
	AI C6H-D	3/8	1/2
	AI C8H-C	1/2	3/8
	AI C8H-D	1/2	1/2

NIPPLES			
Description	Part No.	Body Size	NPT
 Male	AI N4M-A	1/4	1/8
	AI N4M-B	1/4	1/4
	AI N4M-C	1/4	3/8
	AI N6M-B	3/8	1/4
	AI N6M-C	3/8	3/8
	AI N6M-D	3/8	1/2
	AI N8M-C	1/2	3/8
	AI N8M-D	1/2	1/2
 Female	AI N4F-B	1/4	1/4
	AI N4F-C	1/4	3/8
	AI N6F-B	3/8	1/4
	AI N6F-C	3/8	3/8
	AI N8F-C	1/2	3/8
	AI N8F-D	1/2	1/2
 Hose	AI HBN4-B	1/4	1/4
	AI HBN4-C	1/4	3/8
	AI HBN6-B	3/8	1/4
	AI HBN6-C	3/8	3/8
	AI HBN6-D	3/8	1/2
	AI HBN8-D	1/2	1/2

Air Couplers

Industrial Interchange

COUPLERS			
Description	Part No.	Body Size	NPT
 Male	IIC C4M-B	1/4	1/4
	IIC C4M-C	1/4	3/8
	IIC C6M-B	3/8	1/4
	IIC C6M-C	3/8	3/8
	IIC C6M-D	3/8	1/2
	IIC C8M-C	1/2	3/8
	IIC C8M-D	1/2	1/2
 Female	IIC C4F-B	1/4	1/4
	IIC C4F-C	1/4	3/8
	IIC C6F-B	3/8	1/4
	IIC C6F-C	3/8	3/8
	IIC C6F-D	3/8	1/2
	IIC C8F-C	1/2	3/8
	IIC C8F-D	1/2	1/2
 Hose	IIC C4H-B	1/4	1/4
	IIC C4H-C	1/4	3/8
	IIC C6H-B	3/8	1/4
	IIC C6H-C	3/8	3/8
	IIC C6H-D	3/8	1/2
	IIC C8H-C	1/2	3/8
	IIC C8H-D	1/2	1/2

NIPPLES			
Description	Part No.	Body Size	NPT
 Male	IIC N4M-A	1/4	1/8
	IIC N4M-B	1/4	1/4
	IIC N4M-C	1/4	3/8
	IIC N6M-B	3/8	1/4
	IIC N6M-C	3/8	3/8
	IIC N6M-D	3/8	1/2
	IIC N6M-B	3/8	1/4
	IIC N8M-C	1/2	3/8
	IIC N8M-D	1/2	1/2
 Female	IIC N4F-A	1/4	1/8
	IIC N4F-B	1/4	1/4
	IIC N4F-C	1/4	3/8
	IIC N6F-B	3/8	1/4
	IIC N6F-C	3/8	3/8
	IIC N6F-D	3/8	1/2
	IIC N8F-C	1/2	3/8
	IIC N8F-D	1/2	1/2
 Hose	IIC HBN4-B	1/4	1/4
	IIC HBN4-C	1/4	3/8
	IIC HBN6-B	3/8	1/4
	IIC HBN6-C	3/8	3/8
	IIC HBN6-D	3/8	1/2
	IIC HBN8-C	1/2	3/8
	IIC HBN8-D	1/2	1/2

Air Couplers

Aro Interchange



Male Coupler		
Part No.	Body Size	NPT
ARO C4M-B	1/4	1/4
ARO C4M-C	1/4	3/8



Female Coupler		
Part No.	Body Size	NPT
ARO C4F-B	1/4	1/4



Hose Coupler		
Part No.	Body Size	NPT
ARO C4H-B	1/4	1/4
ARO C4H-C	1/4	3/8



NIPPLES			
Description	Part No.	Body Size	NPT
Male	ARO N4M-B	1/4	1/4
	ARO N4M-C	1/4	3/8
	ARO N6M-C	3/8	3/8
Female	ARO N4F-B	1/4	1/4
	ARO N4F-C	1/4	3/8
	ARO N6F-C	3/8	3/8
Hose	ARO HBN4-B	1/4	1/4
	ARO HBN4-C	1/4	3/8
	ARO HBN6-C	3/8	3/8

Push Connect Brass Fittings

Description	Part No.	Tube	NPT
 Male Rigid Elbow	ABPC9M-4A	1/4	1/8
	ABPC9M-4B	1/4	1/4
	ABPC9M-6B	3/8	1/4
	ABPC9M-6C	3/8	3/8
 Male Swivel Elbow	ABPC9MS-2B	1/8	1/4
	ABPC9MS-4A	1/4	1/8
	ABPC9MS-4B	1/4	1/4
	ABPC9MS-4C	1/4	3/8
	ABPC9MS-6B	3/8	1/8
	ABPC9MS-6C	3/8	1/4
	ABPC9MS-6D	3/8	3/8
	ABPC9MS-8B	1/2	1/4
	ABPC9MS-8C	1/2	3/8
	ABPC9MS-8D	1/2	1/2
 Male Swivel Run Tee	ABPCRTS-4A	1/4	1/8
	ABPCRTS-4B	1/4	1/4
	ABPCRTS-6B	3/8	1/4
	ABPCRTS-6C	3/8	3/8
	ABPCRTS-6D	3/8	1/2
	ABPCRTS-8B	1/2	1/4
	ABPCRTS-8C	1/2	3/8
	ABPCRTS-8D	1/2	1/2

Description	Part No.	Tube	NPT
 Female Swivel Elbow	ABPC9FS-4A	1/4	1/8
	ABPC9FS-4B	1/4	1/4
	ABPC9FS-6A	3/8	1/8
	ABPC9FS-6B	3/8	1/4
 Male Connector	ABPCM-4A	1/4	1/8
	ABPCM-4B	1/4	1/4
	ABPCM-4C	1/4	3/8
	ABPCM-6A	3/8	1/8
	ABPCM-6B	3/8	1/4
	ABPCM-6C	3/8	3/8
	ABPCM-8B	1/2	1/4
	ABPCM-8C	1/2	3/8
 Male Swivel Branch Tee	ABPCBTS-4A	1/4	1/8
	ABPCBTS-4B	1/4	1/4
	ABPCBTS-6B	3/8	1/4
	ABPCBTS-6C	3/8	3/8
	ABPCBTS-6D	3/8	1/2
	ABPCBTS-8B	1/2	1/4
	ABPCBTS-8C	1/2	3/8
	ABPCBTS-8D	1/2	1/2

Application: Used with nylon, polyurethane or polyethylene in compressed air or water applications.

Working Pressure: 0 to 150 psi, reference to pressure on tube being used

Temperature Range: 0 ° to 60 °C depending on hose

Recommended Assembly:

1. To Connect Tube

Install male or female pipe end (if applicable). Cut tube square, Insert tube in fitting until it bottoms on stop

2. To Disconnect Tube

Reduce line pressure to zero. Push tube against stop (towards fitting). Push in and hold release ring and pull tubing out

Push Connect Brass Fittings



Description	Part No.	Tube Size
Union - Tube Both Ends	ABPCU-4	1/4
	ABPCU-6	3/8
	ABPCU-8	1/2
Union Tee - All Ends	ABPCUT-4	1/4
	ABPCUT-6	3/8
	ABPCUT-8	1/2
Bulkhead Union	ABPCBHU-4	1/4
	ABPCBHU-6	3/8
	ABPCBHU-8	1/2

Description	Part No.	Tube Size
Union Elbow 90°- Tube Both Ends	ABPCU9-4	1/4
	ABPCU9-6	3/8
	ABPCU9-8	1/2
In Line Check Valve - All Ends	ABPCCV-4	1/4
	ABPCCV-6	3/8
	ABPCCV-8	1/2
Plug In Reducer – FTG x Tube	ABPCR-4-2	1/4 x 1/8
	ABPCR-6-4	3/8 x 1/4
	ABPCR-8-4	1/2 x 1/4
	ABPCR-8-6	1/2 x 3/8



Female Bulkhead	Part No.	Tube	FPT
	ABPCBHF-4A	1/4	1/8
	ABPCBHF-4B	1/4	1/4
	ABPCBHF-4C	1/4	3/8
	ABPCBHF-6A	3/8	1/8
	ABPCBHF-6B	3/8	1/4
	ABPCBHF-6C	3/8	3/8
	ABPCBHF-6D	3/8	1/2
	ABPCBHF-8B	1/2	1/4
	ABPCBHF-8C	1/2	3/8
	ABPCBHF-8D	1/2	1/2

Female Connector	Part No.	Tube	FPT
	ABPCF-4A	1/4	1/8
	ABPCF-4B	1/4	1/4
	ABPCF-4C	1/4	3/8
	ABPCF-6A	3/8	1/8
	ABPCF-6B	3/8	1/4
	ABPCF-6C	3/8	3/8
	ABPCF-6D	3/8	1/2
	ABPCF-8B	1/2	1/4
	ABPCF-8C	1/2	3/8
	ABPCF-8D	1/2	1/2

Push Connect Plastic Fittings



Tube	MPT	Male Run Tee - Tube x Tube x MPT	Male Branch Tee - Tube x Tube x MPT
1/4	1/8	APPCRTS-4A	APPCBTS-4A
1/4	1/4	APPCRTS-4B	APPCBTS-4B
1/4	3/8	APPCRTS-4C	APPCBTS-4C
5/16	1/8	APPCRTS-5A	APPCBTS-5A
5/16	1/4	APPCRTS-5B	APPCBTS-5B
5/16	3/8	APPCRTS-5C	APPCBTS-5C
3/8	1/8	APPCRTS-6A	APPCBTS-6A
3/8	1/4	APPCRTS-6B	APPCBTS-6B
3/8	3/8	APPCRTS-6C	APPCBTS-6C
3/8	1/2	APPCRTS-6D	APPCBTS-6D
1/2	1/4	APPCRTS-8B	APPCBTS-8B
1/2	3/8	APPCRTS-8C	APPCBTS-8C
1/2	1/2	APPCRTS-8D	APPCBTS-8D



Tube	MPT	Male Elbow 90° Long - Tube x MPT	Male Elbow 90° - Tube x MPT
1/4	1/8	APPC9MSL-4A	APPC9MS-4A
1/4	1/4	APPC9MSL-4B	APPC9MS-4B
1/4	3/8	APPC9MSL-4C	APPC9MS-4C
3/8	1/8	APPC9MSL-6A	APPC9MS-6A
3/8	1/4	APPC9MSL-6B	APPC9MS-6B
3/8	3/8	APPC9MSL-6C	APPC9MS-6C
3/8	1/2	APPC9MSL-6D	APPC9MS-6D
1/2	1/4	APPC9MSL-8B	APPC9MS-8B
1/2	3/8	APPC9MSL-8C	APPC9MS-8C
1/2	1/2	APPC9MSL-8D	APPC9MS-8D

Union "Y"	Part No.	Tube: 1 x 2 x 3
	APPCUYT-4	1/4 x 1/4 x 1/4
	APPCUYT-5	5/16 x 5/16 x 5/16
	APPCUYT-6	3/8 x 3/8 x 3/8
	APPCUYT-8	1/2 x 1/2 x 1/2

Male "Y"	Part No.	Tube x Tube x MPT
	APPCYM-4B	1/4 x 1/4 x 1/4
	APPCYM-4C	1/4 x 1/4 x 3/8
	APPCYM-6C	3/8 x 3/8 x 3/8
	APPCYM-6D	3/8 x 3/8 x 1/2
	APPCYM-8B	1/2 x 1/2 x 1/4
	APPCYM-8C	1/2 x 1/2 x 3/8
	APPCYM-8D	1/2 x 1/2 x 1/2

Application: Use with nylon or polyurethane tubing in compressed air
 Working Pressure: 0 to 150 psi, reference to pressure on tube being used
 Temperature Range: 0 ° to 60 °C (32 °F to 140 °F) depending on hose used
 Recommended Assembly:
 Same as Brass Push Connects, see page 17
 NB: 8 mm in place of 5/16"

Push Connect Plastic Fittings

In Line Hand	Part No.	MPT x MPT
	APPCBV-4-4	1/4 x 1/4
	APPCBV-6-4	3/8 x 1/4
	APPCBV-6-6	3/8 x 3/8
	APPCBV-8-6	1/2 x 3/8
	APPCBV-8-8	1/2 x 1/2

Control Valve	Part No.	Tube
	APPCIC-4	1/4
	APPCIC-6	3/8
	APPCIC-8	1/2

Union Elbow	Part No.	Tube
	APPCIC-4	1/4
	APPCIC-5	5/16
	APPCIC-6	3/8
	APPCIC-8	1/2

Union Tee	Part No.	Tube
	APPCUT-4	1/4
	APPCUT-5	5/16
	APPCUT-6	3/8
	APPCUT-8	1/2

Union Cross	Part No.	Tube
	APPCUC-4	1/4
	APPCUC-5	5/16
	APPCUC-6	3/8
	APPCUC-8	1/2

Flow Control Elbow 90°	Part No.	Tube x MPT
	APPC9FC-4A	1/4 x 1/8
	APPC9FC-4B	1/4 x 1/4
	APPC9FC-4V	1/4 x 3/8
	APPC9FC-6A	3/8 x 1/8
	APPC9FC-6B	3/8 x 1/4
	APPC9FC-6C	3/8 x 3/8
	APPC9FC-6D	3/8 x 1/2
	APPC9FC-8C	1/2 x 3/8
	APPC9FC-8D	1/2 x 1/2

Union Tube	Part No.	Tube x Tube
	APPCU-4-4	1/4 x 1/4
	APPCU-5-4	5/16 x 1/4
	APPCU-5-5	5/16 x 5/16
	APPCU-6-5	3/8 x 5/16
	APPCU-6-6	3/8 x 3/8
	APPCU-8-6	1/2 x 3/8
	APPCU-8-8	1/2 x 1/2

Reducer	Part No.	FTG x Tube
	APPCR-5-4	5/16 x 1/4
	APPCR-6-4	3/8 x 1/4
	APPCR-6-5	3/8 x 5/16
	APPCR-8-4	1/2 x 1/4
	APPCR-8-6	1/2 x 3/8

Valves

Description	Part No.	FPT x FPT
 Full Port Ball Valve 600 psi WOG at 250°F	BV-2103-B-FP	1/4
	BV-2103-C-FP	3/8
	BV-2103-D-FP	1/2
	BV-2103-E-FP	3/4
	BV-2103-F-FP	1
	BV-2103-G-FP	1 1/4
	BV-2103-H-FP	1 1/2
	BV-2103-I-FP	2

* Also Available in 316 Stainless: 1000 psi WOG

Description	Part No.	FPT x FPT
 Gate Valve 250 psi WOG at +73°F	GV-217-B	1/4
	GV-217-C	3/8
	GV-2173-D	1/2
	GV-217-E	3/4
	GV-217-F	1
	GV-217-G	1 1/4
	GV-217-H	1 1/2
	GV-217-I	2

Cam & Groove Couplings

Aluminum

Size	Max. Press. Rating (psi)	Part A	Part B	Part C	Part D	Part E	Part F
1/2	150	CGAA-D	CGAB-D	CGAC-D	CGAD-D	CGAE-D	CGAF-D
3/4	250	CGAA-E	CGAB-E	CGAC-E	CGAD-E	CGAE-E	CGAF-E
1	250	CGAA-F	CGAB-F	CGAC-F	CGAD-F	CGAE-F	CGAF-F
1 1/4	250	CGAA-G	CGAB-G	CGAC-G	CGAD-G	CGAE-G	CGAF-G
1 1/2	250	CGAA-H	CGAB-H	CGAC-H	CGAD-H	CGAE-H	CGAF-H
2	250	CGAA-2	CGAB-2	CGAC-2	CGAD-2	CGAE-2	CGAF-2
2 1/2	150	CGAA-2.5	CGAB-2.5	CGAC-2.5	CGAD-2.5	CGAE-2.5	CGAF-2.5
3	125	CGAA-3	CGAB-3	CGAC-3	CGAD-3	CGAE-3	CGAF-3



Part A
Male Adapter x FPT



Part B
Female Coupler x MPT



Part C
Female Coupler x Shank



Part D
Female Coupler x FPT



Part E
Male Adapter x Shank



Part F
Male Adapter x MPT

Stainless Steel

Size	Max. Press. Rating (psi)	Part A	Part B	Part C	Part D	Part E	Part F
1/2	150	CGSA-D	CGSB-D	CGSC-D	CGSD-D	CGSE-D	CGSF-D
3/4	250	CGSA-E	CGSB-E	CGSC-E	CGSD-E	CGSE-E	CGSF-E
1	250	CGSA-F	CGSB-F	CGSC-F	CGSD-F	CGSE-F	CGSF-F
1 1/4	250	CGSA-G	CGSB-G	CGSC-G	CGSD-G	CGSE-G	CGSF-G
1 1/2	250	CGSA-H	CGSB-H	CGSC-H	CGSD-H	CGSE-H	CGSF-H
2	250	CGSA-2	CGSB-2	CGSC-2	CGSD-2	CGSE-2	CGSF-2
2 1/2	225	CGSA-2.5	CGSB-2.5	CGSC-2.5	CGSD-2.5	CGSE-2.5	CGSF-2.5
3	200	CGSA-3	CGSB-3	CGSC-3	CGSD-3	CGSE-3	CGSF-3

Max. Pressure Rating: As Listed

Stainless Steel cam type couplers are made of 316

Also available in Brass and Polypropylene

The following are also available: Part "DC", Dust Cap, and Part "DP", Dust Plug

Not for use with Steam or Compressed Air

Cam & Groove Couplings



Description	Part No.	Size
Female Coupler x Hose Shank	PMS CGA-32C	3 x 2
	PMS CGA-34C	3 x 4
	PMS CGA-43C	4 x 3
Female Coupler x Male Adapter	PMS CGA-32DA	3 x 2
	PMS CGA-34DA	3 x 4
	PMS CGA-43DA	4 x 3
Cam Arm Assemblies (for aluminum) *	PMS CGHRPA-D	1/2
	PMS CGHRPA-E	3/4
	PMS CGHRPA-F	1
	PMS CGHRPA-G	1 1/4
	PMS CGHRPA-H	1 1/2
	PMS CGHRPA-2	2
	PMS CGHRPA-2.5	2 1/2
	PMS CGHRPA-3	3

Description	Part No.	Size
Male Adapter x Female NPT	PMS CGA-32A	3 x 2
	PMS CGA-42A	4 x 3
Male Adapter x Hose Shank	PMS CGA-32E	3 x 2
	PMS CGA-34E	4 x 3
Female Coupler x Male NPT	PMS CGA-43B	4 x 3



Nipples and Menders



COMBINATION NIPPLES		
Size (in)	Unplated	Plated
1/2	PMS CNUP-D	PMS CNP-D
3/4	PMS CNUP-E	PMS CNP-E
1	PMS CNUP-F	PMS CNP-F
1 1/4	PMS CNUP-G	PMS CNP-G
1 1/2	PMS CNUP-H	PMS CNP-H
2	PMS CNUP-2	PMS CNP-2
2 1/2	PMS CNUP-2.5	PMS CNP-2.5
3	PMS CNUP-3	PMS CNP-3

MENDERS		
Unplated	Size (in)	Length (in)
PMS MENP-D	1/2	3 1/2
PMS MENP-E	3/4	4 1/4
PMS MENP-F	1	4 1/4
PMS MENP-G	1 1/4	4 1/2
PMS MENP-H	1 1/2	4 7/8
PMS MENP-2	2	4 7/8
PMS MENP-2.5	2 1/2	5 5/8
PMS MENP-3	3	6 5/8



Application: Low pressure industrial hose applications

Not suitable for compressible products such as air, steam or nitrogen

Clamps

Single Ear Clamp (Galvanized)			
Part No.	Nominal Size	Clamp Range	
		Inches	mm
PMS EC 105	3/8"	.355 - .425	8.9 - 10
PMS EC 133	1/2"	.455 - .525	11.4 - 13.3
PMS EC 170	11/16"	.595 - .669	15.1 - 17
PMS EC 198	3/4"	.669 - .780	17 - 19.8
PMS EC 226	7/8"	.780 - .890	19.8 - 22.6
PMS EC 256	1"	.890 - 1.008	22.8 - 25.6



Double Ear Clamp (Zinc Plated)			
Part No.	Nominal Size	Clamp Range	
		Inches	mm
PMS EC 11-13	1/2"	.433 - .512	11 - 13
PMS EC 13-15	9 / 16"	.512— .591	13—15
PMS EC 15-17	19 / 32"	.591 - .669	15 - 17
PMS EC 17-20	3 / 4"	.669 - .787	17 - 20
PMS EC 19-22	13 / 16	.748 - .866	19 - 22
PMS EC 20-23	7 / 8"	.787 - .905	20 - 23
PMS EC 22-25	15 / 16"	.866 - .984	22 - 25
PMS EC 23 -27	1"	.905 - 1.063	23 - 27

Worm Gear Clamp			
Part No.	Nominal Size	Clamp Range	
		Min.	Max.
PMS-HS-6	3/8"	3/8"	7/8"
PMS-HS-8	1/2"	7/16"	1"
PMS-HS-10	5/8"	9/16"	1 1/16"
PMS-HS-12	3/4"	9/16"	1 1/4"
PMS-HS-16	1"	11/16"	1 1/2"
PMS-HS-20	1 1/4"	3/4"	1 3/4"
PMS-HS-24	1 1/2"	1 1/16"	2"



PMS HS Gear Clamps — 5/16" HEX slotted carbon steel screw, 1/2" 201 stainless steel band and 301 stainless steel housing. Other sizes are available, please inquire.

For all Stainless, order PMS HAS-*: 305 Stainless screw , 301 stainless housing and band

Tubing

Polyethylene Tubing

Part No.	O.D. (in.)	I.D. (in.)	Wall Thickness	Max. W.P. (psi)
TPE-NC-4	1 / 4	.170	.040	140
TPE-NC-5	5 / 16	.187	.062	155
TPE-NC-6	3 / 8	.250	.062	125
TPE-NC-8	1 / 2	.375	.062	100
TPE-NC-10	5 / 8	.500	.062	75
TPE-NC-12	3 / 4	.625	.062	50



Application: Compressed air or water for brass push connect fittings

Construction: Low Density F.D.A. polyethylene

Colour: Standard natural milky white

Length: Available in 100 ft & 500 ft

Nylon Tubing

Part No.	O.D. (in.)	I.D. (in.)	Wall Thickness	Max. W.P. (psi)
TNY-NC-2	1 / 8	.096	.015	250
TNY-NC-3	3 / 16	.138	.025	250
TNY-NC-4	1 / 4	.190	.030	250
TNY-NC-6	3 / 8	.295	.040	250
TNY-NC-8	1 / 2	.375	.062	250



Application: Air lines and lubrication for brass and plastic push connect fittings

Construction: Nylon

Colour: Standard natural milky white

Length: 100 feet coils

Polyurethane Tubing

Part No.	O.D. (in.)	I.D. (in.)	Wall Thickness
TPU-NC-4	1 / 4	1 / 8	.015
TPU-NC-6	3 / 8	1 / 4	.025
TPU-NC-8	1 / 2	3 / 8	.030
TPU-NC-12	3 / 4	1 / 2	.040



Application: Compressed air for brass and plastic push connect fittings

Construction: Natural Ester Polyurethane

Colour: Standard natural milky white

Hoses

Rubber Push-On Hoses



Application: Oil resistant, non-conductive, hose for push-on fittings

Temperature Range: -20°F to 160 °F

Construction:

Tube—Black nitrile, Class A, PVC / Nitrile tube

Reinforcement—High tensile synthetic yarn

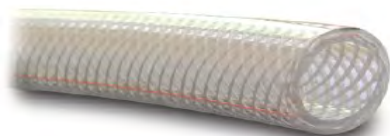
Cover—Black, blue, grey, green, yellow or red neoprene

Part No.	Colours	I.D. (in.)	O.D. (in.)	Max. W.P. (psi)	Wt. per ft (approx. LBs)
PUSR-XX-4	All	1 / 4	.500	250	.10
PUSR-XX-6	All	3 / 8	.625	250	.13
PUSR-XX-8	All	1 / 2	.750	150	.16
PUSR-XX-10	All	5 / 8	.900	250	.22
PUSR-BK-12	Black Only	3 / 4	1.030	250	.25

When ordering, replace XX with corresponding two digit color code:

XX = BK (Black)
 XX = BL (Blue)
 XX = GR (Green)
 XX = GY (Grey)
 XX = RD (Red)
 XX = YW (Yellow)

Clear Reinforced PVC Food Grade



Application: Air, drinking water, mild chemicals and alkali.

This product complies with FDA, 3A, NSF-51 and NSF-61 requirements.

Temperature Range: +25°F to 150 °F

Construction:

Tube—Clear smooth PVC.

Reinforcement—High tensile synthetic braid.

Cover—Clear smooth PVC.

Part No.	I.D. (in.)	O.D. (in.)	Max. W.P. (psi)	Approx. Wt. per ft Lbs	Standard Lengths (ft)
CRF-4-250	1 / 4	.438	250	.06	50, 100, 300 or 500
CRF-6-225	3 / 8	.594	225	.09	50, 100, 300 or 500
CRF-8-200	1 / 2	.750	200	.13	50, 100, 300 or 500
CRF-10-200	5 / 8	.891	200	.18	50, 100, 300
CRF-12-150	3 / 4	1.031	150	.22	50, 100, 200 or 500
CRF-16-125	1	1.300	150	.30	50, 100, 200 or 300
CRF-20-100	1 1/4	1.620	100	.45	50 or 100
CRF-24-100	1 1/2	1.938	100	.64	50 or 100

Hoses

Challenger Hoses

Part No.	Colour	I.D. (in.)	O.D. (in.)	Max. W.P. (psi)	Wt. per ft (approx. LBs)
CHAL-RD-4-250	Red	1 / 4	.51	250	.11
CHAL-RD-6-250	Red	3 / 8	.67	250	.16
CHAL-BK-8-150	Black	1 / 2	.83	150	.26
CHAL-RD-8-250	Red	1 / 2	.83	250	.23
CHAL-BK-12-150	Black	3 / 4	1.14	150	.44
CHAL-RD-12-250	Red	3 / 4	1.14	250	.40
CHAL-BK-16-150	Black	1	1.40	150	.55
CHAL-RD-16-200	Red	1	1.40	200	.53



Application: Wide Range of Water Applications

Temperature Range:

Red, -4°F to 200 °F; Black, -4°F to 180 °F

Construction:

Red, Tube—Black EPDM blended rubber

Reinforcement—Polyester yarn

Cover—Smooth red abrasion resistant EPDM blend

Black, Tube—Black blended rubber

Reinforcement—High tensile synthetic yarn

Cover—Smooth black abrasion resistant EPDM blend

Clear is available, please inquire.

Water Discharge Hoses

Part No.	I.D. (in.)	O.D. (in.)	Max. W.P. (psi)	Wt. per ft (approx. LBs)
CWDT-4-200	1 / 4	.50	200	.08
CWDT-6-200	3 / 8	.69	200	.15
CWDT-6-300	3 / 8	.72	300	.17
CWDT-8-150	1 / 2	.81	150	.19
CWDT-8-300	1 / 2	.88	300	.24
CWDT-10-150	5 / 8	.94	150	.23
CWDT-10-200	5 / 8	1.00	200	.29
CWDT-12-150	3 / 4	1.13	150	.33
CWDT-12-300	3 / 4	1.16	300	.40
CWDT-16-150	1	1.43	150	.41
CWDT-16-300	1	1.43	300	.49



Application: General water service

Colour: Black only

Temperature Range: - 40°F to 200 °F

Construction:

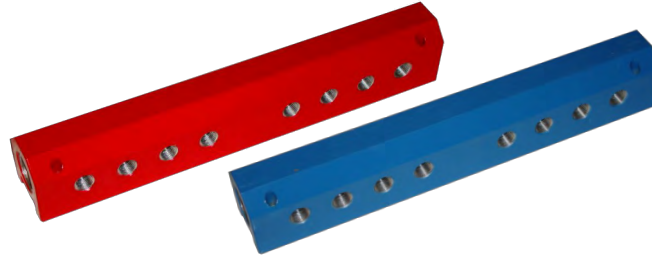
Tube—Black EPDM

Reinforcement—Multiple spirals of synthetic yarn

Cover—Smooth black EPDM

1 1/4" and 1 1/2" is available, please inquire.

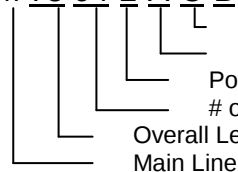
Water Manifolds



Main Line (NPT)	Part No.	O.A.L. (in.)	# Ports / side	Port Sizes (NPT)	 Pick Side	Color
3/4"	WM7504	4	2	A (1/8" NPT) or B (1/4" NPT)	Any or all sides	R (Red) Or B (Blue)
	WM7506	6	4			
	WM7508	8	6			
	WM7510	10	8			
1"	WM1005	5	2	B (1/4" NPT) or C (3/8" NPT)	Any or all sides	R (Red) Or B (Blue)
	WM1008	8	4			
	WM1010	10	6			
	WM1013	13	8			
1 1/4"	WM1207	7	2	C (3/8" NPT) or D (1/2" NPT)	Any or all sides	R (Red) Or B (Blue)
	WM1210	10	4			
	WM1214	14	6			
	WM1218	18	8			
1 1/2"	WM1507	7	2	C (3/8" NPT) or D (1/2" NPT)	Any or all sides	R (Red) Or B (Blue)
	WM1510	10	4			
	WM1514	14	6			
	WM1518	18	8			
2"	WM2008	8	2	D (1/2" NPT) or E (3/4" NPT)	Any or all sides	R (Red) Or B (Blue)
	WM2013	13	4			
	WM2017	17	6			
	WM2022	22	8			

Part Number Code:

WM 75 04-2-A-C-B


 R (Red), B (Blue) OR D (Divided)
 Side on which Ports are on
 Port Size
 # of Ports per side
 Overall Length (O.A.L.) of manifold
 Main Line

Socket Head Cap Screws - Inch

High-strength, heat treated alloy steel
Black Finish
Tensile Strength:
Up to and including 1/2", 180,000 psi
5/8" dia., and greater, 170,000 psi



Dia-Thread	L = Length																								
	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	8
4/40	•	•	•	•	•																				
5/40	•	•	•	•	•																				
6/32	•	•	•	•	•	•	•																		
8/32	•	•	•	•	•	•	•	•	•																
10/24		•	•	•	•	•	•	•	•	•	•														
10/32			•	•	•	•	•	•	•	•	•														
1/4-20		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•							
1/4-28		•	•	•	•	•	•	•	•	•	•	•													
5/16-18		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
5/16-24			•	•	•	•	•	•	•	•	•	•	•												
3/8-16			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•			
3/8-24			•	•	•	•	•	•	•	•	•	•	•		•										
7/16-14			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							
7/16-20							•	•	•		•														
1/2-13			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1/2-20							•	•	•	•	•	•	•		•										
5/8-11							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5/8-18							•	•	•	•	•		•												
3/4-10								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7/8-9											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1-8											•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Part Number Code: Item Prefix + D + L

Item Prefix = SHCS

D = Diameter

L = Length

Example 1: 3/8"-16 D x 1" Length - **SHCS 380 100**

Example 2: 7/16" D x 1 1/4" Length - **SHCS 716 114**

Order Quantity is based on Packaged Quantity.

Alloy Flat Head Cap Screws - Inch

High-strength, heat treated alloy steel
Black Finish
Tensile Strength:
Conforms to ANSI B18.3



Dia-Thread	L = Length															
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
4/40		•		•		•	•	•								
5/40				•		•	•	•								
6/32		•		•		•	•	•								
8/32				•		•	•	•	•							
10/24				•		•	•	•	•	•	•					
10/32				•		•	•	•	•	•	•					
1/4-20				•		•	•	•	•	•	•	•	•			
1/4-28				•		•	•	•	•	•	•					
5/16-18						•	•	•	•	•	•	•	•	•	•	
5/16-24						•	•	•	•	•	•					
3/8-16						•	•	•	•	•	•	•	•	•	•	•
3/8-24							•	•	•	•	•					
7/16-14								•	•	•	•	•	•			
1/2-13								•	•	•	•	•	•	•	•	•
1/2-20								•	•	•	•	•	•			
5/8-11									•	•	•	•	•	•	•	•
3/4-10										•	•	•	•	•	•	•

Part Number Code: Item Prefix + D + L

Item Prefix = FHCS

D = Diameter

L = Length

Example 1: 3/8"-16 D x 1" Length - **FHCS 380 100**

Example 2: 7/16" D x 1 1/4" Length - **FHCS 716 114**

Order Quantity is based on Packaged Quantity.

Alloy Socket Set Screws Cup Point

High-strength, heat treated alloy steel
 Black Oxide Finish
 Tensile Strength:
 Conforms to ANSI B18.3 and FF-S-200
 Type 1, Style 4



Dia-Thread	L = Length																
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
4/40	•	•	•	•		•	•										
4/48	•	•		•													
5/40	•	•	•	•		•	•	•									
6/32	•	•	•	•	•	•	•	•	•	•							
6/40	•	•	•	•													
8/32	•	•	•	•	•	•	•	•	•	•							
8/36	•	•	•	•		•											
10/24	•	•	•	•	•	•	•	•	•	•	•						
10/32	•	•	•	•	•	•	•	•		•	•						
1/4-20	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
1/4-28	•	•	•	•	•	•	•	•		•	•						
5/16-18		•	•	•	•	•	•	•	•	•	•	•	•	•			
5/16-24		•	•	•		•	•	•		•	•						
3/8-16		•	•	•	•	•	•	•	•	•	•	•	•	•		•	
3/8-24		•	•	•		•	•	•		•	•	•					
7/16-14				•	•	•	•	•		•	•	•		•			
1/2-13				•		•	•	•	•	•	•	•	•	•		•	•
1/2-20						•	•	•		•							
5/8-11						•	•	•		•	•	•	•	•		•	•
3/4-10							•	•		•	•	•	•	•		•	•

Part Number Code: Item Prefix + D + L

Item Prefix = SSCP

D = Diameter

L = Length

Example 1: 3/8"-16 D x 1" Length - **SSCP 380 100**

Example 2: 7/16" D x 1 1/4" Length, - **SSCP 716 114**

Order Quantity is based on Packaged Quantity.

Alloy Steel Dowel Pins

Alloy Steel Plain Finish
Through Hardened
Standard .0002 ASME / ANSI B18.8.2-2000



D	L = Length																					
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/2	4	4 1/2	5	6
1/16	•	•	•	•	•	•	•	•	•	•												
3/32	•	•	•	•	•	•	•	•	•	•												
1/8				•		•	•	•	•	•	•	•	•	•								
3/16						•	•	•	•	•	•	•	•	•								
1/4						•	•	•	•	•	•	•	•	•	•	•						
5/16						•	•	•	•	•	•	•	•	•	•	•	•					
3/8						•	•	•	•	•	•	•	•	•	•	•	•					
7/16										•	•	•	•	•		•	•					
1/2								•		•	•	•	•	•	•	•	•	•	•			
5/8										•	•	•	•	•	•	•	•	•	•	•	•	
3/4														•		•	•	•	•	•	•	•
7/8														•		•	•	•	•	•	•	•
1														•		•	•	•	•	•	•	•

Part Number Code: Item Prefix + D + L

Item Prefix = DP

D = Diameter

L = Length

Example 1: 3/8" D x 1" Length - **DP 380 100**

Example 2: 7/16" D x 1 1/4" Length - **DP 716 114**

Order Quantity is based on Packaged Quantity.

Terms & Conditions

Due to the wide variety of applications and operation conditions for these products, the user, through their own analysis and testing is solely responsible for making the final selection of the product and assuring that all performances, safety and warning requirements of the application are met. These products as described herein, including without limitation, product characteristics, specifications and availability, are subject to change by PMS-C Ltd., at any time without notice.

- Warranty:** Liability for goods found defective, through faults of materials or workmanship, is limited to the replacement or repair of defective product returned within 30 days of purchase. If replacement is not possible, a credit will be issued at the invoice price.
Under no circumstances will we allow charges for labour, expenses, or consequential damages.
- Pricing:** All pricing is subject to change without notice. PMS-C Ltd., reserves the right to ship all orders on the basis of the price in effect at the time of shipment.
- Returns:** A return authorization number must be issued by PMS-C Ltd., before any returns will be accepted.
- Shortages:** Claims for shortages will not be allowed unless made within 10 days of receipt of the merchandise.
- Acceptance:** All orders given to, or accepted by our representatives, are subject to credit approval and contingent upon strikes, fires, accidents and other causes beyond our control.
- Terms:** Net 30 Days
- Freight:** F.O.B. our warehouse. \$8 shipping on orders in the Greater Toronto Area (GTA).
- Part No.:** To expedite the handling of your orders, please use the part numbers listed in our catalogue.
- Pictures:** Pictures are for identification purposes only and may not reflect actual fitting pattern.
Please confirm specific patterns before ordering.

Other fittings and mold components are also available on request.

Contact Information

Tel: (416) 528-8088
Fax: (905) 271-8591
email: sales@pms-c.com
website: www.pms-c.com

