

HYDRA-FLEX

HOSE AND FITTINGS SOLUTIONS

AN AIR-WAY GLOBAL MANUFACTURING COMPANY



Automotive Assembly Tooling

Hose, Fittings & Accessory Abbreviated Catalog



A Note About This Catalog ...

Thank you for choosing Hydra-Flex, a division of Air-Way Global Manufacturing, for your hose, fitting, and accessory needs. Everyone across the Hydra-Flex organization appreciates your business and values the trust you place in our products, people, and partnership.

This catalog was created as a practical reference guide to assist engineers, builders, and procurement teams in selecting the most commonly used hose, fitting, and accessory products for automotive assembly tooling applications. While this represents a focused selection of our most frequently specified products, Hydra-Flex offers a complete range of hydraulic hose, crimp fittings, and accessories available upon request.

As part of Air-Way Global Manufacturing, Hydra-Flex combines proven performance with trusted partnership and practical solutions—building confidence into every connection. Our team of experienced technical specialists provides reliable products that are expertly designed, thoroughly tested, and backed for real-world performance.

We appreciate your continued partnership and look forward to supporting your next project with the same reliability, responsiveness, and real-world practicality that define Hydra-Flex.



Hydra-Flex, Inc

Automotive Assembly Tooling Hose & Fitting Catalog

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AIR-WAY PUSH-ON HOSE BARB (INCH) METRIC "L" FEM SWIVEL, MALE METRIC "L" RIGID STEEL and BRASS

GLOBAL PART NUMBER	HOSE CONNECTION SIZE	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE	MATERIAL
PLS-ML-84S-EN	1/4"	N/A	8	M14 X 1.5	Steel
PLS-ML-106S-EN	3/8"	N/A	10	M16 X 1.5	Steel
PLS-ML-158S-EN	1/2"	N/A	15	M22 X 1.5	Steel
PLS-ML-2212S-EN	3/4"	N/A	22	M30 X 2	Steel
PLS-ML-2816S-EN	1"	N/A	28	M36 X 2	Steel



GLOBAL PART NUMBER	HOSE CONNECTION SIZE	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE	MATERIAL
PLS-ML-84-B	1/4"	N/A	8	M14 X 1.5	Brass
PLS-ML-106-B	3/8"	N/A	10	M16 X 1.5	Brass
PLS-ML-158-B	1/2"	N/A	15	M22 X 1.5	Brass
PLS-ML-2212-B	3/4"	N/A	22	M30 X 2	Brass
PLS-ML-2816-BNS	1"	N/A	28	M36 X 2	Brass Stem/ Steelnut



GLOBAL PART NUMBER	HOSE CONNECTION SIZE	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE	MATERIAL
PLS-ML-90-106B	3/8"	N/A	10	M16 X 1.5	Brass
PLS-ML-90-158B	1/2"	N/A	12	M22 X 1.5	Brass



GLOBAL PART NUMBER	HOSE CONNECTION SIZE	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE	MATERIAL
PLM-ML-158-B	1/2"	N/A	15	M22 X 1.5	Brass
PLM-ML-2212-B	3/4"	N/A	22	M30 X 2	Brass



AIR-WAY BRASS METRIC FITTINGS

Metric L Male x Male BSPP (G)



GLOBAL PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
SBC15ML6G	3/8"	15	M22 X 1.5
SBC15ML8G	1/2"	15	M22 X 1.5
SBC22ML12G	3/4"	22	M30 x 2
SBC22ML8G	1/2"	22	M30 x 2
SBC28ML16G	1"	28	M36 x 2

Metric L Swivel x Male BSPP (G)



GLOBAL PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1165 23 2000-BR	1/2"	15	M22 X 1.5
1165 33 2000-BR	3/4"	22	M30 X 2
1165 38 2000-BR	1"	28	M36 X 2

Male L Swivel x Male Metric L 90 Deg Elbow



GLOBAL PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1158 23 2058-BR		15	M22 X 1.5
1158 33 2058-BR		22	M30 X 2
1158 38 2058-BR		28	M36 X 2

Metric L Swivel x Male BSPP (G) 2 Piece Adjustable 90 Elbow



GLOBAL PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1159 21 2000-BR	1/2"	15	M22 X 1.5
1159 31 2000-BR	3/4"	22	M30 X 2
1159 36 2000-BR	1"	28	M36 X 2

VOSS METRIC FITTINGS



Male Metric "L" x Male BSPP (G)

PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
0784 20 2000	1/4"	8	M14 X 1.5
1784 23 2000	3/8"	8	M14 X 1.5
0784 21 2000	1/4"	10	M16 X 1.5
1784 17 2000	3/8"	10	M16 X 1,5
1784 18 2000	1/2"	10	M16 X 1.5
1784 07 2000	3/8"	15	M22 X 1.5
0784 23 2000	1/2"	15	M22 X 1.5
1784 19 2000	3/4"	15	M22 X 1.5
1784 71 2000	1"	22	M30 X 2
0784 25 2000	3/4"	22	M30 X 2
1784 16 2000	1/2"	22	M30 X 2
0784 26 2000	1"	28	M36 X 2
1784 12 2000	3/4"	28	M36 X 2



Metric "L" Swivel x BSPP (G) Straight Adapter

PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1165 08 2000	1/4"	8	M14 X 1.5
1165 23 2000	1/2"	15	M22 X 1.5
1165 33 2000	3/4"	22	M30 X 2
1165 38 2000	1"	28	M36 X 2

VOSS METRIC FITTINGS

Male Metric "L" x Male BSPP (G) 90 Deg Elbow

PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1159 06 2000	1/4"	8	M14 X 1.5
1159 11 2000	1/4"	10	M16 X 1.5
1159 21 2000	1/2"	15	M22 x 1.5
1159 31 2000	3/4"	22	M30 x 2
1159 36 2000	1"	28	M36 x 2



Male Metric "L" x Male BSPP (G) 45 Deg Elbow

PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1172 06 2000	1/4"	8	M14 X 1.5
1172 11 2000	1/4"	10	M16 X 1.5
1172 21 2000	1/2"	15	M22 X 1.5
1172 31 2000	3/4"	22	M30 X 2
1172 36 2000	1"	28	M36 X 2



Male Metric "L" x Male BSPP (G) Barrel Tee

PART NUMBER	MALE "G" BSPP	METRIC TUBING SIZE	METRIC THREAD SIZE
1163 21 2000	1/2"	15	M22 X 1.5
1163 31 2000	3/4"	22	M30 X 2



VOSS METRIC FITTINGS



Metric "L" 90 Degree Elbow

PART NUMBER	TUBE O.D.	TUBE O.D.
1158 08 2058	8mm	8mm
1158 13 2058	10mm	10mm
1158 23 2058	15mm	15mm
1158 33 2058	22mm	22mm
1158 38 2058	28mm	28mm



Metric "L" Swivel Branch Tee

PART NUMBER	TUBE O.D.	TUBE O.D.
1160 08 2058	8mm	8mm
1160 13 2058	10mm	10mm
1160 23 2058	15mm	15mm
1160 33 2058	22mm	22mm
1160 38 2058	28mm	28mm



Metric "L" 45 Degree Elbow

PART NUMBER	TUBE O.D.	TUBE O.D.
1170 08 2058	8mm	8mm
1170 13 2058	10mm	10mm
1170 23 2058	15mm	15mm
1170 33 2058	22mm	22mm
1170 38 2058	28mm	28mm



Metric "L" Swivel Run Tee

PART NUMBER	TUBE O.D.	TUBE O.D.
1162 08 2058	8mm	8mm
1162 13 2058	10mm	10mm
1162 23 2058	15mm	15mm
1162 33 2058	22mm	22mm
1162 38 2058	28mm	28mm

VOSS METRIC FITTINGS



Tube Nut

PART NUMBER	TUBE O.D.
0004 05 2100	8mm
0004 10 2100	10mm
0004 20 2100	15mm
0004 30 2100	22mm
0004 35 2100	28mm



2S Bite Ring

PART NUMBER	TUBE O.D.
0010 05 2000	8mm
0010 10 2000	10mm
0010 20 2000	15mm
0010 30 2000	22mm
0010 35 2000	28mm



ES4 Bite Ring

PART NUMBER	TUBE O.D.
0011 05 2039	8mm
0011 10 2039	10mm
0011 20 2039	15mm
0011 30 2039	22mm
0011 35 2039	28mm



Reducing Coupling

PART NUMBER	TUBE O.D.	TUBE O.D.
0148 10 2074	10mm	8mm
0148 22 2074	15mm	8mm
0148 21 2074	15mm	10mm
0148 33 2074	22mm	10mm
0148 31 2074	22mm	15mm
0148 39 2074	28mm	10mm
0148 37 2074	28mm	15mm
0148 35 2074	28mm	22mm



BSPP (G) Reducing Bushing

PART NUMBER	BSPP (G) X BSPP (G)
1149 08 2000	3/8" X 1/4"
1149 14 2000	1/2" X 1/4"
1149 13 2000	1/2" X 3/8"
1149 21 2000	3/4" X 1/4"
1149 20 2000	3/4" X 3/8"
1149 19 2000	3/4" X 1/2"
1149 26 2000	1" X 3/8"
1149 25 2000	1" X 1/2"
1149 24 2000	1" X 3/4"



BSPP (G) Pipe Plug

PART NUMBER	BSPP (G)
6409-G-04	1/4"
6409-G-06	3/8"
6409-G-08	1/2"
6409-G-12	3/4"
6409-G-16	1"

VOSS METRIC FITTINGS

Union STR

PART NUMBER	
0712 15 2000	12L
0712 20 2000	15L
0712 30 2000	22L
0712 35 2000	28L



Union Tee

PART NUMBER	
0734 15 2000	12L
0734 20 2000	15L
0734 30 2000	22L
0734 35 2000	28L



STR Bulkhead

PART NUMBER	
0137 15 2000	12L
0137 20 2000	15L
0137 30 2000	22L
0137 35 2000	28L



VOSS NPT & BSPT TO METRIC CONVERSION ADAPTERS



Male Metric "L" x Male BSPT

PART NUMBER	TUBE O.D.	PORT BSPT (R)
0704 05 2000	8mm	1/4"
0704 12 2000	10mm	3/8"
0704 20 2000	15mm	1/2"
0704 30 2000	22mm	3/4"
0704 35 2000	28mm	1"



Male Metric "L" x Male NPT

PART NUMBER	TUBE O.D.	Port NPT
0706 05 2000	8mm	1/4"
0706 12 2000	10mm	3/8"
0706 20 2000	15mm	1/2"
0706 30 2000	22mm	3/4"
0706 35 2000	28mm	1"

AIR-WAY PUSH-ON HOSE X TUBE CONNECTOR Steel Electroless Nickel and Brass



Hydra-Flex PART NUMBER	PUSH-ON HOSE BARB	TUBE INSERT	MATERIAL
PL4MT8-EN	1/4"	8mm	Steel
PL4MT10-EN	1/4"	10mm	Steel
PL6MT12-EN	3/8"	12mm	Steel
PL8MT16-EN	1/2"	16mm	Steel
PL4MT8-BR	1/4"	8mm	Brass
PL4MT10-BR	1/4"	10mm	Brass
PL6MT12-BR	3/8"	12mm	Brass
PL8MT16-BR	1/2"	16mm	Brass
PL6MT12-B-D-2-FC	3/8"	12mm Double Retainer	Brass

SPECIAL APPLICATION BRASS & STEEL BSPP / JIC / METRIC FITTINGS



PART NUMBER	TUBE SIZE	BSPP SIZE	BSPP SIDE PORT	MATERIAL	DESCRIPTION
HFBT-12-22-6-BNS	22mm	3/4"	3/8"	Brass/Steel Lock Nut	Brass/Steel Lock Nut
HFBT-12-22-6-S	22mm	3/4"	3/8"	Steel/Zinc Nickle Plate	APP-2688-.75BSPP-ADJ-M30-FL-ASY (Special Tee Brass/STL Lock nut)



PART NUMBER	JIC SIZE	BSPP SIZE	BSPT SIZE	MATERIAL	SPECIAL LENGTH
MBP6400-06-04-B-1.26	3/8"	1/4"	N/A	Brass	1.26" OAL
MBP6400-06-04-B-1.60	3/8"	1/4"	N/A	Brass	1.60" OAL



PART NUMBER	JIC SIZE	BSPP SIZE	BSPT SIZE	MATERIAL	SPECIAL LENGTH
MBP6801-06-04-NWO-RR-B	3/8"	1/4"	N/A	Brass	N/A



PART NUMBER	JIC SIZE	BSPP SIZE	BSPT SIZE	MATERIAL	SPECIAL LENGTH
MBT2404-08-08-B	1/2"	N/A	1/2"	Brass	N/A
MBT2404-12-08-B	3/4"	N/A	1/2"	Brass	N/A



PART NUMBER	JIC SIZE	BSPP SIZE	BSPT SIZE	MATERIAL	SPECIAL LENGTH
MBT2501-08-08-B	1/2"	N/A	1/2"	Brass	N/A



PART NUMBER	TUBE SIZE	BSPP SIZE	BSPT SIZE	MATERIAL	DESCRIPTION
MA41-12-12	12mm(x2)	1/2"	N/A	Brass/Nickle Plate	Dual Tube Banjo Fitting

BSPB CONVERSION ADAPTERS



MJIC - MBSPP Conversion Adapter

PART NUMBER	JIC SIZE	BSPB SIZE
MBP6400-4-2-O-RR	1/4"	1/8"
MBP6400-4-4-O-RR	1/4"	1/4"
MBP6400-4-6-O-RR	1/4"	3/8"
MBP6400-4-8-O-RR	1/4"	1/2"
MBP6400-6-2-O-RR	3/8"	1/8"
MBP6400-6-4-O-RR	3/8"	1/4"
MBP6400-6-6-O-RR	3/8"	3/8"
MBP6400-6-8-O-RR	3/8"	1/2"
MBP6400-8-12-O-RR	1/2"	3/4"
MBP6400-8-4-O-RR	1/2"	1/4"
MBP6400-8-6-O-RR	1/2"	3/8"
MBP6400-8-8-O-RR	1/2"	1/2"
MBP6400-12-12-O-RR	3/4"	3/4"
MBP6400-12-16-O-RR	3/4"	1"
MBP6400-12-6-O-RR	3/4"	3/8"
MBP6400-12-8-O-RR	3/4"	1/2"
MBP6400-16-12-O-RR	1"	3/4"
MBP6400-16-16-O-RR	1"	1"
MBP6400-16-20-O-RR	1"	1-1/4"
MBP6400-20-16-O-RR	1-1/4"	1"
MBP6400-20-20-O-RR	1-1/4"	1-1/4"
MBP6400-20-24-O-RR	1-1/4"	1-1/2"
MBP6400-24-20-O-RR	1-1/2"	1-1/4"
MBP6400-24-24-O-RR	1-1/2"	1-1/2"

BSPP CONVERSION ADAPTERS



MJIC x MBSPP 90 Deg Elbow Adapter

PART NUMBER	JIC SIZE	BSPP SIZE
MBP6801-4-2-NWO-RR	1/4"	1/8"
MBP6801-4-4-NWO-RR	1/4"	1/4"
MBP6801-4-6-NWO-RR	1/4"	3/8"
MBP6801-6-4-NWO-RR	3/8"	1/4"
MBP6801-6-6-NWO-RR	3/8"	3/8"
MBP6801-6-8-NWO-RR	3/8"	1/2"
MBP6801-8-12-NWO-RR	1/2"	3/4"
MBP6801-8-4-NWO-RR	1/2"	1/4"
MBP6801-8-6-NWO-RR	1/2"	3/8"
MBP6801-8-8-NWO-RR	1/2"	1/2"
MBP6801-12-12-NWO-RR	3/4"	3/4"
MBP6801-12-16-NWP-RR	3/4"	1"
MBP6801-12-8-NWO-RR	3/4"	1/2"
MBP6801-16-12-NWO-RR	1"	3/4"
MBP6801-16-16-NWO-RR	1"	1"
MBP6801-16-20-NWO-RR	1"	1-1/4"
MBP6801-20-16-NWO-RR	1-1/4"	1"
MBP6801-20-20-NWO-RR	1-1/4"	1-1/4"
MBP6801-24-20-NWO-RR	1-1/2"	1-1/4"
MBP6801-24-24-NWO-RR	1-1/2"	1-1/2"



MJIC x MBSPP 45 Deg Elbow Adapter

PART NUMBER	JIC SIZE	BSPP SIZE
MBP6802-4-2-NWO-RR	1/4"	1/8"
MBP6802-4-4-NWO-RR	1/4"	1/4"
MBP6802-6-4-NWO-RR	3/8"	1/4"
MBP6802-6-6-NWO-RR	3/8"	3/8"
MBP6802-8-6-NWO-RR	1/2"	3/8"
MBP6802-8-8-NWO-RR	1/2"	1/2"
MBP6802-12-8-NWO-RR	3/4"	1/2"
MBP6802-12-12-NWO-RR	3/4"	3/4"
MBP6802-16-16-NWO-RR	1"	1"

BSPF FITTINGS



MJIC - MBSPP Adjustable Branch Tee

PART NUMBER	JIC SIZE	BSPF SIZE
MBP6803-4-4-4-NWO-RR	1/4"	1/4"
MBP6803-6-6-4-NWO-RR	3/8"	1/4"
MBP6803-6-6-6-NWO-RR	3/8"	3/8"
MBP6803-8-8-6-NWO-RR	1/2"	3/8"
MBP6803-8-8-8-NWO-RR	1/2"	1/2"
MBP6803-12-12-12-NWO-RR	3/4"	3/4"
MBP6803-16-16-16-NWO-RR	1"	1"



Male JIC to MBSPP Adjustable Run Tee

PART NUMBER	JIC SIZE	BSPF SIZE
MBP6804-4-4-4-NWO-RR	1/4"	1/4"
MBP6804-6-4-6-NWO-RR	3/8"	1/4"
MBP6804-6-6-6-NWO-RR	3/8"	3/8"
MBP6804-8-6-8-NWO-RR	1/2"	3/8"
MBP6804-8-8-8-NWO-RR	1/2"	1/2"
MBP6804-12-12-12-NWO-RR	3/4"	3/4"
MBP6804-16-16-16-NWO-RR	1"	1"
MBP6804-20-20-20-NWO-RR	1-1/4"	1-1/4"



Bonded Seal BSPF Threads

PART NUMBER	BSPF SIZE
9500-02	1/8"
9500-04	1/4"
9500-06	3/8"
9500-08	1/2"
9500-12	3/4"
9500-16	1"
9500-20	1-1/4"
9500-24	1-1/2"
9500-32	2"



Female BSPF (G) Pipe Tee

PART NUMBER	BSPF (G)
5605-08-08-08-G	1/2"
5605-12-12-12-G-ZN	3/4"
5605-16-16-16-G	1"

MISCELLANEOUS CONVERSION FITTINGS

MBSPP - MBSPP Hex Nipple



PART NUMBER	MALE BSPP	MALE BSPP
MBS2403-4-4	1/4"	1/4"
MBS2403-6-6	3/8"	3/8"
MBS2403-8-8	1/2"	1/2"
MBS2403-12-12	3/4"	3/4"
MBS2403-16-16	1"	1"

MBSPT - MBSPT Hex Nipple



PART NUMBER	MALE BSPT	MALE BSPT
9010-04-04	1/4"	1/4"
9010-06-06	3/8"	3/8"
9010-08-08	1/2"	1/2"
9010-12-12	3/4"	3/4"
9010-16-16	1"	1"

MBSPP - MNPT Hex Nipple



PART NUMBER	MALE BSPP	MALE NPT
9007-04-04	1/4"	1/4"
9007-06-06	3/8"	3/8"
9007-08-08	1/2"	1/2"
9007-12-12	3/4"	3/4"
9007-16-16	1"	1"

MBSPP - FBSPP Bushing



PART NUMBER	MALE BSPP	FEM BSPP
9039-04-04	1/4"	1/4"
9039-06-06	3/8"	3/8"
9039-08-08	1/2"	1/2"
9039-12-12	3/4"	3/4"
9039-16-16	1"	1"

MBSPP - FNPT Adapter



PART NUMBER	MALE BSPP	FEM NPT
9035S-04-04	1/4"	1/4"
9035S-06-06	3/8"	3/8"
9035S-08-08	1/2"	1/2"
9035S-12-12	3/4"	3/4"

MNPT - FBSPP Adapter



PART NUMBER	MALE NPT	FEM BSPP
9037-04-04	1/4"	1/4"
9037-06-06	3/8"	3/8"
9037-08-08	1/2"	1/2"
9037-12-12	3/4"	3/4"

R.U.B. BSPP BALL VALVES



- 600 PSI WOG
- -40°F + 350°F
- BSPP Parallel Fem x Fem Threads
- Brass Unplated Body
- PTFE Seat
- Chrome Plated Ball
- Nickel Plated Stem
- Locking Handle
- GCCL Approved



- 200 PSI AIR
- 15°F + 210°F
- BSPP Parallel Fem x Fem Threads
- Brass Nickel Plated Brass Body
- PTFE Seat
- Chrome Plated Ball
- Nickel Plated Stem
- Locking Handle
- GCCL Approved
- Relieving

VALVE SIZE (BSPP) (G)	PART NUMBER	MAX WORKING PRESSURE
1/4"	S84B65GM	600
3/8"	S84C65GM	600
1/2"	S84D65GM	600
3/4"	S84E65GM	600
1"	S84F65GM	600
1-1/4"	S84G65GM	600
1-1/2"	S84H65GM	600
2"	S84I65GM	600

VALVE SIZE (BSPP) (G)	PART NUMBER	MAX WORKING PRESSURE
1/4"	S93B00	200
3/8"	S93C00	200
1/2"	S93D00	200
3/4"	S93E00	200
1"	S93F00	200

GCCL MANIFOLDS



Purple Anodized Aluminum "Split" Manifold

GLOBAL PART NUMBER	FEMALE INLET BSPP (G)	FEMALE OUTLET BSPP (G)	TOTAL INLET PORTS	TOTAL OUTLET PORTS
HF-AMP-G-4	1/2"	3/8"	2	8
HF-AMP-G-6	1/2"	3/8"	2	12
HF-AMP-G-8	1/2"	3/8"	2	16



Purple Anodized Aluminum "Manifold"

GLOBAL PART NUMBER	FEMALE INLET BSPP (G)	FEMALE OUTLET BSPP (G)	TOTAL INLET PORTS	TOTAL OUTLET PORTS
HF-AMP-T-G-7	1"	1/2"	1	7



Purple Anodized Aluminum "T" Junction Blocks

GLOBAL PART NUMBER	FEMALE BSPP (G)	TOTAL PORTS
HF-AJP-T-G8-2	1/2"	6
HF-AJP-T-G8-4	1/2"	12
HF-AJP-T-G8-6	1/2"	18
HF-AJP-T-G8-8	1/2"	24

ALUMINUM BSPP MANIFOLDS



GLOBAL PART NUMBER	DESCRIPTION	FEMALE INLET BSPP (G)	FEMALE OUTLET BSPP (G)	TOTAL INLET PORTS	TOTAL OUTLET PORTS
HF-AMG-H-106-34-216-G	Green Hex Manifold	1"	(10) 3/8" & (3) 1/4"	2	13
HF-AMG-H-106-64-216-G	Green Hex Manifold	1"	(10) 3/8" & (6) 1/4"	2	16
HF-AMG-H-406-212-G	Green Hex Manifold Short	3/4"	(4) 3/8"	2	4
HF-AMR-H-106-64-216-G	Red Hex Manifold	1"	(10) 3/8" & (6) 1/4"	2	16
HF-AMR-H-406-212-G	Red Hex Manifold Short	3/4"	(4) 3/8"	2	4



GLOBAL PART NUMBER	DESCRIPTION	FEMALE INLET BSPP (G)	FEMALE OUTLET BSPP (G)	TOTAL INLET PORTS	TOTAL OUTLET PORTS
HF-AM-5-4-G	BSPP (G) Port Manifold	1/2"	(4) 3/8"	2	4
HF-AM-5-5-G	BSPP (G) Port Manifold	1/2"	(5) 3/8"	2	5

PART NUMBER	DESCRIPTION	PORT SIZE
HF-AM-DG -2	Short BSPP Pass through Manifold	1/2"



Terminal/Header Block BSPP "G" Ports Plain Finish Aluminum

PART NUMBER	DESCRIPTION	PORT SIZE
HF-AMC-S-G-36-2	36 Port Header - Straight Through	1/8" BSPP (G)
HF-AMC-E-G-36-2	36 Port Header - 90° Elbow	1/8" BSPP (G)
HF-AMC-S-G-36-4	36 Port Header - Straight Through	1/4" BSPP (G)
HF-AMC-E-G-36-4	36 Port Header - 90° Elbow	1/4" BSPP (G)



AIR-WAY/PATRIOT PUSH-ON HOSE BARBS



Hose Barb to FEM JIC Swivel

PART NUMBER	PUSH-ON HOSE	FEM JIC SWIVEL
PLS44	1/4"	1/4"
PLS46	1/4"	3/8"
PLS64	3/8"	1/4"
PLS66*	3/8"	3/8"
PLS68	3/8"	1/2"
PLS86	1/2"	3/8"
PLS88*	1/2"	1/2"
PLS1212	3/4"	3/4"
PLS1616	1"	1"
PLS66-S*	3/8"	3/8"
PLS88-S*	1/2"	1/2"

* 3/8" and 1/2" available in steel PLS66-S, PLS88-S



Barb to Male NPT

PART NUMBER	PUSH-ON HOSE	MALE NPT
PLM42	1/4"	1/8"
PLM44	1/4"	1/4"
PLM46	1/4"	3/8"
PLM62	3/8"	1/8"
PLM64	3/8"	1/4"
PLM66	3/8"	3/8"
PLM68	3/8"	1/2"
PLM84	1/2"	1/4"
PLM86	1/2"	3/8"
PLM88	1/2"	1/2"
PLM812	1/2"	3/4"
PLM128	3/4"	1/2"
PLM1212	3/4"	3/4"



Hose Barb to FEM NPT

PART NUMBER	PUSH-ON HOSE	FEMALE NPT
PLF42	1/4"	1/8"
PLF44	1/4"	1/4"
PLF64	3/8"	1/4"
PLF66	3/8"	3/8"
PLF86	1/2"	3/8"
PLF88	1/2"	1/2"
PLF1212	3/4"	3/4"



Hose Mender

PART NUMBER	PUSH-ON HOSE	PUSH-ON HOSE
PHU4	1/4"	1/4"
PHU6	3/8"	3/8"
PHU8	1/2"	1/2"
PHU12	3/4"	3/4"



Male JIC

PART NUMBER	PUSH-ON HOSE	MALE JIC
PLJ44	1/4"	1/4"
PLJ66	3/8"	3/8"
PLJ88	1/2"	1/2"
PLJ1212	3/4"	3/4"

AIR-WAY/PATRIOT STEEL AND BRASS JIC ADAPTERS



JIC to NPT Adapter

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE SIZE	MALE NPT
2404-02-02	SBC42	1/4"	1/8"
2404-04-04	SBC44	1/4"	1/4"
2404-04-06	SBC46	1/4"	3/8"
2404-04-08	SBC48	1/4"	1/2"
2404-06-02	SBC62	3/8"	1/8"
2404-06-04	SBC64	3/8"	1/4"
2404-06-06	SBC66	3/8"	3/8"
2404-06-08	SBC68	3/8"	1/2"
2404-08-04	SBC84	1/2"	1/4"
2404-08-06	SBC86	1/2"	3/8"
2404-08-08	SBC88	1/2"	1/2"
2404-08-12	SBC812	1/2"	3/4"
2404-12-08	SBC128	3/4"	1/2"
2404-12-12	SBC1212	3/4"	3/4"
2404-12-16	SBC1216	3/4"	1"
2404-16-12	SBC1612	1"	3/4"
2404-16-16	SBC1616	1"	1"
2404-20-20	SBC2020	1-1/4"	1-1/4"



JIC Tube Union

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	JIC TUBE
2403-04-04	SBU44	1/4"	1/4"
2403-06-06	SBU66	3/8"	3/8"
2403-08-08	SBU88	1/2"	1/2"
2403-12-12	SBU1212	3/4"	3/4"
2403-16-16	SBU1616	1"	1"



JIC Bulkhead Union

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	JIC TUBE
2700-06-06	BHB66	3/8"	3/8"
2700-08-08	BHB88	1/2"	1/2"
2700-12-12	BHB1212	3/4"	3/4"



JIC Tube to FNPT Adapter

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	FEMALE NPT
2405-04-02	FMB42	1/4"	1/8"
2405-04-04	FMB44	1/4"	1/4"
2405-06-04	FMB64	3/8"	1/4"
2405-06-06	FMB66	3/8"	3/8"
2405-08-06	FMB86	1/2"	3/8"
2405-08-08	FMB88	1/2"	1/2"
2405-12-12	FMB1212	3/4"	3/4"
2405-16-16	FMB1616	1"	1"



JIC Tube Union Tee

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE
2603-04-04-04-FG	TBC444F	1/4"
2603-06-06-06-FG	TBC666F	3/8"
2603-08-08-08-FG	TBC888F	1/2"
2603-12-12-12-FG	TBC121212F	3/4"

AIR-WAY/PATRIOT STEEL AND BRASS JIC ADAPTERS



JIC to NPT 90 Deg Elbow

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE SIZE	MALE NPT
2501-04-02-FG	EBC42F	1/4"	1/8"
2501-04-04-FG	EBC44F	1/4"	1/4"
2501-04-06-FG	EBC46F	1/4"	3/8"
2501-06-02-FG	EBC62F	3/8"	1/8"
2501-06-04-FG	EBC64F	3/8"	1/4"
2501-06-06-FG	EBC66F	3/8"	3/8"
2501-06-08-FG	EBC68F	3/8"	1/2"
2501-08-08-FG	EBC88F	1/2"	1/2"
2501-08-12-FG	EBC812F	1/2"	3/4"
2501-12-08-FG	EBC128F	3/4"	1/2"
2501-12-12-FG	EBC1212F	3/4"	3/4"
2501-12-16-FG	EBC1216F	3/4"	1"
2501-16-12-FG	EBC1612F	1"	3/4"
2501-16-16-FG	EBC1616F	1"	1"



JIC Tube to FNPT 90 Elbow

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	FNPT
2502-04-02-FG	EBF42F	1/4"	1/8"
2502-04-04-FG	EBF44F	1/4"	1/4"
2502-06-04-FG	EBF64F	3/8"	1/4"
2502-06-06-FG	EBF66F	3/8"	3/8"
2502-08-08-FG	EBF88F	1/2"	1/2"
2502-12-12-FG	EBF1212F	3/4"	3/4"



JIC Tube to NPT 45 Elbow

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE SIZE	MALE NPT
2503-04-02-FG	FBC42F	1/4"	1/8"
2503-04-04-FG	FBC44F	1/4"	1/4"
2503-04-06-FG	FBC46F	1/4"	3/8"
2503-06-02-FG	FBC62F	3/8"	1/8"
2503-06-04-FG	FBC64F	3/8"	1/4"
2503-06-06-FG	FBC66F	3/8"	3/8"
2503-06-08-FG	FBC68F	3/8"	1/2"
2503-08-06-FG	FBC86F	1/2"	3/8"
2503-08-08-FG	FBC88F	1/2"	1/2"
2503-12-12-FG	FBC1212F	3/4"	3/4"



JIC Tube to FJIC SW 90 Elbow

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	FEM JIC SWIVEL
6500-04-04-FG	EBS44F	1/4"	1/4"
6500-06-06-FG	EBS66F	3/8"	3/8"
6500-08-08-FG	EBS88F	1/2"	1/2"



JIC Tube to FJIC SW 45 Elbow

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE	FEM JIC SWIVEL
6502-04-04-FG	FBS44F	1/4"	1/4"
6502-06-06-FG	FBS66F	3/8"	3/8"
6502-08-08-FG	FBS88F	1/2"	1/2"

AIR-WAY/PATRIOT STEEL AND BRASS JIC ADAPTERS



JIC to NPT Branch Tee

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE SIZE	NPTF Size
2601-04-04-02-FG	BBT442F	1/4"	1/8"
2601-06-06-04-FG	BBT664F	3/8"	1/4"
2601-08-08-06-FG	BBT886F	1/2"	3/8"



JIC to NPT Run Tee

STEEL PART NUMBER	BRASS PART NUMBER	JIC TUBE SIZE	MALE NPT
2605-04-02-04-FG	BRT424F	1/4"	1/8"
2605-06-04-06-FG	BRT646F	3/8"	1/4"



SW to MJIC Run Tee

STEEL PART NUMBER	BRASS PART NUMBER	JIC SW	MALE JIC
6602-04-04-04-FG	TRS444F	1/4"	1/4"
6602-06-06-06-FG	TRS666F	3/8"	3/8"



FJIC SW to MJIC Branch Tee

STEEL PART NUMBER	BRASS PART NUMBER	JIC SW	MALE JIC
6600-04-04-04-FG	TBS444F	1/4"	1/4"
6600-06-06-06-FG	TBS666F	3/8"	3/8"
6600-08-08-08-FG	TBS888F	1/2"	1/2"



AIR-WAY/PATRIOT BRASS DOT ELBOWS AND EXTENSIONS



DOT Elbow



Brass Extension Adapter

PART NUMBER	LENGTH (See Above)	FEMALE NPT	MALE NPT
DE22	.575	1/8"	1/8"
DE22-1	1.275	1/8"	1/8"
DE22-2	1.525	1/8"	1/8"
DE22-3	1.775	1/8"	1/8"
DE22-4	1.950	1/8"	1/8"
DE42	.80	1/4"	1/8"
DE44	.770	1/4"	1/4"
DE44-1	1.287	1/4"	1/4"
DE44-2	1.537	1/4"	1/4"
DE44-3	1.787	1/4"	1/4"
DE44-4	1.975	1/4"	1/4"
DE44-5	2.350	1/4"	1/4"
DE66	.990	3/8"	3/8"
DE66-1	1.778	3/8"	3/8"
DE66-2	2.118	3/8"	3/8"
DE88	1.120	1/2"	1/2"

PART NUMBER	LENGTH (See Above)	FEMALE NPT	MALE NPT
EA22	.8125	1/8"	1/8"
EA22-1	1.25	1/8"	1/8"
EA22-2	1.75	1/8"	1/8"
EA22-3	3.00	1/8"	1/8"
EA44	1.00	1/4"	1/4"
EA44-1	1.5625	1/4"	1/4"
EA44-2	1.8125	1/4"	1/4"
EA44-3	2.0625	1/4"	1/4"
EA44-4	2.50	1/4"	1/4"
EA66	1.125	3/8"	3/8"
EA88	1.31	1/2"	1/2"

AIR-WAY/PATRIOT NPT COUPLINGS AND NIPPLES



FNPT Hex Coupling

STEEL PART NUMBER	BRASS PART NUMBER	FEMALE NPT	FEMALE NPT
5404-02-02	3300-2	1/8"	1/8"
5404-04-02	3300-4-2	1/4"	1/8"
5404-04-04	3300-4	1/4"	1/4"
5404-06-06	3300-6	3/8"	3/8"
5404-06-02	3300-6-2	3/8"	1/8"
5404-06-04	3300-6-4	3/8"	1/4"
5404-08-08	3300-8	1/2"	1/2"
5404-08-06	3300-8-6	1/2"	3/8"
5404-12-12	3300-12	3/4"	3/4"



Brass Close Nipple

PART NUMBER	MALE NPT	MALE NPT
BN-012-100	1/8"	1/8"
BN-025-100	1/4"	1/4"
BN-038-100	3/8"	3/8"
BN-050-100	1/2"	1/2"
BN-075-100	3/4"	3/4"
BN-100-100	1"	1"



Brass Long Nipple

SIZE	LENGTH	PART NUMBER
1/8"	1-1/2"	BN-012-150
1/8"	2"	BN-012-200
1/8"	2 1/2"	BN-012-250
1/8"	3"	BN-012-300
1/4"	1-1/2"	BN-025-150
1/4"	2"	BN-025-200
1/4"	3"	BN-025-300
1/4"	3-1/2"	BN-025-350
1/4"	4"	BN-025-400
3/8"	1-1/5"	BN-038-150
3/8"	2"	BN-038-200
3/8"	2-1/2"	BN-038-250
3/8"	3"	BN-038-300
3/8"	3-1/2"	BN-038-350
3/8"	4"	BN-038-400
1/2"	1-1/2"	BN-050-150
1/2"	2"	BN-050-200
1/2"	2-1/2"	BN-050-250
1/2"	3"	BN-050-300
1/2"	3-1/2"	BN-050-350
1/2"	4"	BN-050-400
3/4"	1-1/2"	BN-075-150
3/4"	2"	BN-075-200
3/4"	2-1/2"	BN-075-250
3/4"	3"	BN-075-300

AIR-WAY/PATRIOT STEEL AND BRASS NPT ADAPTERS



HEX Nipple

STEEL PART NUMBER	BRASS PART NUMBER	MALE NPT	MALE NPT
5404-02-02	3325-2	1/8"	1/8"
5404-04-04	3325-4	1/4"	1/4"
5404-04-02	3325-4-2	1/4"	1/8"
5404-06-06	3325-6	3/8"	3/8"
5404-06-02	3326-6-2	3/8"	1/8"
5404-06-04	3325-6-4	3/8"	1/4"
5404-08-08	3325-8	1/2"	1/2"
5404-08-04	3325-8-4	1/2"	1/4"
5404-08-06	3325-8-6	1/2"	3/8"
5404-12-12	3325-12	3/4"	3/4"
5404-12-08	3325-12-8	3/4"	1/2"
5404-16-16	3325-16	1"	1"



FNPT Pipe

STEEL PART NUMBER	BRASS PART NUMBER	FEM NPT
5504-02-02	3500F-2	1/8"
5504-04-04	3500F-4	1/4"
5504-06-06	3500F-6	3/8"
5504-08-08	3500F-8	1/2"
5504-12-12	3500F-12	3/4"



Brass Pipe Bushing

STEEL PART NUMBER	BRASS PART NUMBER	MALE NPT	FEM NPT
5406-04-02	3220-4-2	1/4"	1/8"
5406-06-02	3220-6-2	3/8"	1/8"
5406-06-04	3220-6-4	3/8"	1/4"
5406-08-02	3220-8-2	1/2"	1/8"
5406-08-04	3220-8-4	1/2"	1/4"
5406-08-06	3220-8-6	1/2"	3/8"
5406-12-04	3220-12-4	3/4"	1/4"
5406-12-06	3220-12-6	3/4"	3/8"
5406-12-08	3220-12-8	3/4"	1/2"
5406-16-08	3220-16-8	1"	1/2"
5406-16-12	3220-16-12	1"	3/4"



MNPT CounterSunk Pipe Plug

BRASS PART NUMBER	SIZE
CSP-012-B	1/8"
CSP-025-B	1/4"
CSP-038-B	3/8"
CSP-050-B	1/2"
CSP-075-B	3/4"
CSP-100-B	1"



FNPT Pipe Tee

STEEL PART NUMBER	BRASS PART NUMBER	FEM NPT
5605-02-02-02	3700F-2	1/8"
5605-04-04-04-FG	3700F-4	1/4"
5605-06-06-06-FG	3700F-6	3/8"
5605-08-08-08-FG	3700F-8	1/2"
5605-12-12-12	3700F-12	3/4"



MNPT Hex Pipe

STEEL PART NUMBER	BRASS PART NUMBER	SIZE
5406-02P	3152-2	1/8"
5406-04P	3152-4	1/4"
5406-06P	3152-6	3/8"
5406-08P	3152-8	1/2"
5406-12P	3152-12	3/4"
5406-16P	3152-16	1"



Pipe Street Elbow

STEEL PART NUMBER	BRASS PART NUMBER	FEM NPT	MALE NPT
5502-04-04-FG	3400F-4	1/4"	1/4"
5502-06-06-FG	3400F-6	3/8"	3/8"
5502-08-08-FG	3400F-8	1/2"	1/2"
5502-12-12-FG	3400F-12	3/4"	3/4"

AIR-WAY/PATRIOT STEEL AND BRASS NPT ADAPTERS



Female Pipe Cap

BRASS PART NUMBER	SIZE
3129-4	1/4"
3129-6	3/8"
3129-8	1/2"



45 Deg Pipe Street
Elbow

PART NUMBER	FEM NPT	MALE NPT
FDE2	1/8"	1/8"
FDE4	1/4"	1/4"
FDE6	3/8"	3/8"
FDE8	1/2"	1/2"



Pipe Street Tee

STEEL PART NUMBER	BRASS PART NUMBER	FEMALE NPT	MALE NPT
5602-04-04-04-FG	3750F-4	1/4"	1/4"
5602-06-06-06-FG	3750F-6	3/8"	3/8"
5602-08-08-08-FG	3750F-8	1/2"	1/2"



Pipe Branch Tee

STEEL PART NUMBER	BRASS PART NUMBER	FEMALE NPT	MALE NPT
5604-02-02-02	3600F-2	1/8"	1/8"
5604-04-04-04	3600F-4	1/4"	1/4"
5604-06-06-06	3600F-6	3/8"	3/8"
5604-08-08-08	3600F-8	1/2"	1/2"



Female Pipe Cross

STEEL PART NUMBER	BRASS PART NUMBER	FEM NPT
5652-02	3950F-2	1/8"
5652-04	3950F-4	1/4"
5652-06	3950F-6	3/8"
5652-08	3950F-8	1/2"
5652-12	3950F-12	3/4"

STEEL AND BRASS RESTRICTOR FITTINGS MADE TO ORDER



STEEL PART NUMBER	NPT FEMALE	BSPP MALE (G)
EABS22RMM -*	1/8"	1/8"
EABS44RMM -*	1/4"	1/4"
EABS66RMM -*	3/8"	3/8"
EABS88RMM -*	1/2"	1/2"

STANDARD ORIFICE SIZES/COLORS AVAILABLE:

1.0MM (BLACK) 1.5MM (GREEN) 2.0MM (RED) 2.5MM (WHITE) 3.0MM (YELLOW)

ANY MM SIZE NOT LISTED WILL BE COLOR CODED ORANGE

* Please specify orifice size and color when ordering
EXAMPLE: EABS66RMM-1.5 GREEN



STEEL PART NUMBER	BSPP FEMALE (G)	BSPP MALE (G)
EAMGFG44R-*	1/4"	1/4"
EAMGFG66R-*	3/8"	3/8"
EAMGFG88R-*	1/2"	1/2"

STANDARD ORIFICE SIZES/COLORS AVAILABLE:

1.0MM (BLACK) 1.5MM (GREEN) 2.0MM (RED) 2.5MM (WHITE) 3.0MM (YELLOW)

ANY MM SIZE NOT LISTED WILL BE COLOR CODED ORANGE

* Please specify orifice size and color when ordering
EXAMPLE: EAMGFG644R-1.5 GREEN



BRASS PART NUMBER	NPT FEMALE	NPT MALE
EA44RMM - *	1/4"	1/4"
EA66RMM - *	3/8"	3/8"
EA88RMM - *	1/2"	1/2"

STANDARD ORIFICE SIZES NOT COLOR CODED

0 (NO ORIFICE), -1 (.062), -2 (.093), -3 (.125)

* Please specify orifice size when ordering
EXAMPLE: EA66R-1 (.062)



BRASS PART NUMBER	NPT FEMALE	NPT MALE
EA44RMM - *	1/4"	1/4"
EA66RMM - *	3/8"	3/8"
EA88RMM - *	1/2"	1/2"

STANDARD ORIFICE SIZES/COLORS AVAILABLE:

1.0MM (BLACK) 1.5MM (GREEN) 2.0MM (RED) 2.5MM (WHITE) 3.0MM (YELLOW)

ANY MM SIZE NOT LISTED WILL BE COLOR CODED ORANGE

* Please specify orifice size and color when ordering
EXAMPLE: EA66MM1.5 GREEN

**NOTE: ALL ORIFICE SIZES WILL BE STAMPED WITH 3/16" CHARACTERS
NOT ALL SIZES AND TYPES ARE SHOWN ON THIS PAGE
IF YOU DON'T SEE WHAT YOU'RE LOOKING FOR CONTACT CUSTOMER SERVICE FOR AVAILABILITY**

BRASS PUSH-TO-CONNECT FITTINGS



**Tube to Male NPT
Connector**

PART NUMBER	TUBE	NPTF
PN11-1/8-1/8	1/8"	1/8"
PN11-5/32-10/32	5/32"	10/32"
PN11-5/32-1/8	5/32"	1/8"
PN11-5/32-1/4	5/32"	1/4"
PN11-1/4-1/8	1/4"	1/8"
PN11-1/4-1/4	1/4"	1/4"
PN11-5/16-1/8	5/16"	1/8"
PN11-5/16-1/4	5/16"	1/4"
PN11-5/16-3/8	5/16"	3/8"
PN11-3/8-1/8	3/8"	1/8"
PN11-3/8-1/4	3/8"	1/4"
PN11-3/8-3/8	3/8"	3/8"
PN11-3/8-1/2	3/8"	1/2"
PN11-1/2-1/4	1/2"	1/4"
PN11-1/2-3/8	1/2"	3/8"
PN11-1/2-1/2	1/2"	1/2"



**Tube to Female NPT
Connector**

PART NUMBER	TUBE	FNPT
PN13-5/32-1/8	5/32"	1/8"
PN13-1/4-1/8	1/4"	1/8"
PN13-1/4-1/4	1/4"	1/4"
PN13-5/16-1/8	5/16"	1/8"
PN13-5/16-1/4	5/16"	1/4"
PN13-3/8-1/4	3/8"	1/4"
PN13-3/8-3/8	3/8"	3/8"



**Tube to MNPT
90 Deg Elbow**

PART NUMBER	TUBE	MNPT
PN14-5/32-1/8	5/32"	1/8"
PN14-1/4-1/8	1/4"	1/8"
PN14-1/4-1/4	1/4"	1/4"
PN14-5/16-1/8	5/16"	1/8"
PN14-5/16-1/4	5/16"	1/4"
PN14-3/8-1/4	3/8"	1/4"
PN14-3/8-3/8	3/8"	3/8"



**Tube to MNPT
90 Deg Swivel Elbow**

PART NUMBER	TUBE	MNPT SW
PN15-1/8-1/8	1/8"	1/8"
PN15-5/32-1/8	5/32"	1/8"
PN15-5/32-1/4	5/32"	1/4"
PN15-1/4-1/8	1/4"	1/8"
PN15-1/4-1/4	1/4"	1/4"
PN15-5/16-1/8	5/16"	1/8"
PN15-5/16-1/4	5/16"	1/4"
PN15-5/16-3/8	5/16"	3/8"
PN15-3/8-1/8	3/8"	1/8"
PN15-3/8-1/4	3/8"	1/4"
PN15-3/8-3/8	3/8"	3/8"
PN15-1/2-1/4	1/2"	1/4"
PN15-1/2-3/8	1/2"	3/8"
PN15-1/2-1/2	1/2"	1/2"

BRASS PUSH-TO-CONNECT FITTINGS



**Tube to Fem NPT
90 Deg Swivel Elbow**

PART NUMBER	TUBE	FEM NPT
PN17-1/4-1/8	1/4"	1/8"
PN17-1/4-1/4	1/4"	1/4"
PN17-5/16-1/8	5/16"	1/8"
PN17-5/16-1/4	5/16"	1/4"
PN17-3/8-1/4	3/8"	1/4"
PN17-3/8-3/8	3/8"	3/8"



**Tube to MNPT
Swivel Banjo Fitting**

PART NUMBER	TUBE	MALE NPT
PN18-1/4-1/8	1/4"	1/8"
PN18-1/4-1/4	1/4"	1/4"
PN18-5/16-3/8	5/16"	3/8"
PN18-3/8-1/4	3/8"	1/4"
PN18-3/8-3/8	3/8"	3/8"



**Tube to MNPT
Swivel Branch Tee**

PART NUMBER	TUBE	MALE NPT
PN20-1/8-1/8	1/8"	1/8"
PN20-1/4-1/8	1/4"	1/8"
PN20-1/4-1/4	1/4"	1/4"
PN20-5/16-1/4	5/16"	1/4"
PN20-3/8-1/4	3/8"	1/4"
PN20-3/8-3/8	3/8"	3/8"
PN20-1/2-3/8	1/2"	3/8"
PN20-1/2-1/2	1/2"	1/2"



**Tube to MNPT
Swivel Run Tee**

PART NUMBER	TUBE	MALE NPT
PN23-1/4-1/8	1/4"	1/8"
PN23-1/4-1/4	1/4"	1/4"
PN23-5/16-1/8	5/16"	1/8"
PN23-5/16-1/4	5/16"	1/4"
PN23-3/8-1/4	3/8"	1/4"
PN23-3/8-3/8	3/8"	3/8"
PN23-1/2-3/8	1/2"	3/8"
PN23-1/2-1/2	1/2"	1/2"



Tube Reducer

PART NUMBER	TUBE	TUBE
PN25-5/32-1/4	5/32"	1/4"
PN25-1/4-5/16	1/4"	5/16"
PN25-1/4-3/8	1/4"	3/8"
PN25-1/4-1/2	1/4"	1/2"
PN15-5/16-3/8	5/16"	3/8"
PN25-3/8-1/2	3/8"	1/2"



Tube Union

PART NUMBER	TUBE	TUBE
PN26-1/8-1/8	1/8"	1/8"
PN26-5/32-5/32	5/32"	5/32"
PN26-1/4-1/4	1/4"	1/4"
PN26-5/16-5/16	5/16"	5/16"
PN26-3/8-3/8	3/8"	3/8"
PN26-1/2-1/2	1/2"	1/2"

BRASS PUSH-TO-CONNECT FITTINGS



Tube Bulkhead Union

PART NUMBER	TUBE	TUBE
PN27-1/8-1/8	1/8"	1/8"
PN27-5/32-5/32	5/32"	5/32"
PN27-1/4-1/4	1/4"	1/4"
PN27-5/16-5/16	5/16"	5/16"
PN27-3/8-3/8	3/8"	3/8"
PN27-1/2-1/2	1/2"	1/2"



Tube Extension

PART NUMBER	TUBE	TUBE
PN39-1/8-1/8	1/8"	1/8"
PN39-5/32-5/32	5/32"	5/32"
PN39-1/4-1/4	1/4"	1/4"
PN39-5/16-5/16	5/16"	5/16"
PN39-3/8-3/8	3/8"	3/8"
PN39-1/2-1/2	1/2"	1/2"



Tube Union Elbow

PART NUMBER	TUBE	TUBE
PN28-1/8-1/8	1/8"	1/8"
PN28-5/32-5/32	5/32"	5/32"
PN28-1/4-1/4	1/4"	1/4"
PN28-5/16-5/16	5/16"	5/16"
PN28-3/8-3/8	3/8"	3/8"
PN28-1/2-1/2	1/2"	1/2"



Tube Plug

PART NUMBER	TUBE
PN40-1/8-1/8	1/8"
PN40-5/32-5/32	5/32"
PN40-1/4-1/4	1/4"
PN40-5/16-5/16	5/16"
PN40-3/8-3/8	3/8"
PN40-1/2-1/2	1/2"



Tube Union Tee

PART NUMBER	TUBE
PN29-1/8-1/8	1/8"
PN29-5/32-5/32	5/32"
PN29-1/4-1/4	1/4"
PN29-5/16-5/16	5/16"
PN29-3/8-3/8	3/8"
PN29-1/2-1/2	1/2"

BRASS PUSH-TO-CONNECT FITTINGS

Metric Tube, Taper, Parallel



**Tube to Male BSPT (R)
Connector**

PART NUMBER	TUBE (MM)	MALE BSPT (R)
MA11-4-1/8	4	1/8"
MA11-4-1/4	4	1/4"
MA11-6-1/8	6	1/8"
MA11-6-1/4	6	1/4"
MA11-8-1/8	8	1/8"
MA11-8-1/4	8	1/4"
MA11-10-1/4	10	1/4"
MA11-10-3/8	10	3/8"
MA11-10-1/2	10	1/2"
MA11-12-1/4	12	1/4"
MA11-12-3/8	12	3/8"
MA11-12-1/2	12	1/2"
MA11-14-3/8	14	3/8"
MA11-14-1/2	14	1/2"



**Tube to BSPP (G)
Connector**

PART NUMBER	TUBE (MM)	MALE BSPP (G)
MA12-4-M5	4	M5
MA12-4-M6	4	M6
MA11-4-1/8	4	1/8"
MA11-4-1/4	4	1/4"
MA12-6-M5	6	M5
MA12-6-M6	6	M6
MA12-6-1/8	6	1/8"
MA12-6-1/4	6	1/4"
MA12-8-1/8	8	1/8"
MA12-8-1/4	8	1/4"
MA12-8-3/8	8	3/8"
MA12-10-1/4	10	1/4"
MA12-10-3/8	10	3/8"
MA12-10-1/2	10	1/2"
MA12-12-1/4	12	1/4"
MA12-12-3/8	12	3/8"
MA12-12-1/2	12	1/2"
MA12-14-3/8	14	3/8"
MA12-14-1/2	14	1/2"



**Tube to Female BSPP (G)
Parallel Connector**

PART NUMBER	TUBE (MM)	FEM BSPP (G)
MA13-4-1/8	4	1/8"
MA13-6-1/8	6	1/8"
MA13-6-1/4	6	1/4"
MA13-8-1/8	8	1/8"
MA13-8-1/4	8	1/4"
MA13-10-1/4	10	1/4"
MA13-10-3/8	10	3/8"



**Tube to BSPT (R)
90 Deg Swivel Elbow**

PART NUMBER	TUBE (MM)	MALE BSPT (R)
MA14-4-1/8	4	1/8"
MA14-4-1/4	4	1/4"
MA14-6-1/8	6	1/8"
MA14-6-1/4	6	1/4"
MA14-8-1/4	8	1/4"
MA14-10-1/4	10	1/4"
MA14-10-3/8	10	3/8"

BRASS PUSH-TO-CONNECT FITTINGS



**Metric Tube to Male
BSPT (R) Taper Swivel
90 Deg Elbow**

PART NUMBER	TUBE (MM)	MALE METRIC
MA15-4-1/8	4	1/8"
MA15-4-1/4	4	1/4"
MA15-6-1/8	6	1/8"
MA15-6-1/4	6	1/4"
MA15-8-1/8	8	1/8"
MA15-8-1/4	8	1/4"
MA15-8-3/8	8	3/8"
MA15-10-1/4	10	1/4"
MA15-10-3/8	10	3/8"
MA15-12-3/8	12	3/8"
MA15-12-1/2	12	1/2"
MA15-14-3/8	14	3/8"
MA15-14-1/2	14	1/2"



**Metric Tube to Male
SW BSPT (R)**

PART NUMBER	TUBE (MM)	MALE BSPT (R)
MA20-4-1/8	4	1/8"
MA20-4-1/4	4	1/4"
MA20-6-1/8	6	1/8"
MA20-6-1/4	6	1/4"
MA20-8-1/8	8	1/8"
MA20-8-1/4	8	1/4"
MA20-8-3/8	8	3/8"
MA20-10-1/4	10	1/4"
MA20-10-3/8	10	3/8"
MA20-12-3/8	12	3/8"
MA20-12-1/2	12	1/2"



**Metric Tube to Male
BSPP (G) Parallel Swivel
90 Deg Elbow**

PART NUMBER	TUBE (MM)	MALE PARALLEL
MA16-4-M5	4	M5
MA16-4-1/8	4	1/8"
MA16-4-1/4	4	1/4"
MA16-6-M5	6	M5
MA16-6-1/8	6	1/8"
MA16-6-1/4	6	1/4"
MA16-8-1/8	8	1/8"
MA16-8-1/4	8	1/4"
MA16-8-3/8	8	3/8"
MA16-10-1/4	10	1/4"
MA16-10-3/8	10	3/8"
MA16-10-1/2	10	1/2"
MA16-12-1/4	12	1/4"
MA16-12-3/8	12	3/8"
MA16-12-1/2	12	1/2"
MA16-14-3/8	14	3/8"
MA16-14-1/2	14	1/2"



**Metric Tube to Fem BSPT (R)
Swivel 90 Deg Elbow**

PART NUMBER	TUBE (MM)	FEM BSPT (R)
MA17-4-1/8	4	1/8"
MA17-6-1/8	6	1/8"
MA17-6-1/4	6	1/4"
MA17-8-1/8	8	1/8"
MA17-8-1/4	8	1/4"
MA17-10-1/4	10	1/4"
MA17-10-3/8	10	3/8"

BRASS PUSH-TO-CONNECT FITTINGS

Metric Tube, Taper, Parallel



**Metric Tube to Male
SW BSPP (G) Branch Tee**

PART NUMBER	TUBE (MM)	MALE BSPP (G)
MA21-4-1/8	4	1/8"
MA21-4-1/4	4	1/4"
MA21-6-1/8	6	1/8"
MA21-6-1/4	6	1/4"
MA21-8-1/8	8	1/8"
MA21-8-1/4	8	1/4"
MA21-8-3/8	8	3/8"
MA21-10-1/4	10	1/4"
MA21-10-3/8	10	3/8"
MA21-12-3/8	12	3/8"
MA21-12-1/2	12	1/2"



**Metric Tube to Male
BSPP (G) Run Tee**

PART NUMBER	TUBE (MM)	MALE BSPP (G)
MA24-4-1/8	4	1/8"
MA24-4-1/4	4	1/4"
MA24-6-1/8	6	1/8"
MA24-6-1/4	6	1/4"
MA24-8-1/8	8	1/8"
MA24-8-1/4	8	1/4"
MA24-10-1/4	10	1/4"
MA24-10-3/8	10	3/8"
MA24-12-3/8	12	3/8"
MA24-12-1/2	12	1/2"



Metric Tube Reducer

PART NUMBER	TUBE (MM)	TUBE (MM)
MA25-4-6	4	6
MA25-4-8	4	8
MA25-4-10	4	10
MA25-4-12	4	12
MA25-6-8	6	8
MA25-6-10	6	10
MA25-6-12	6	12
MA25-6-14	6	14
MA25-8-10	8	10
MA25-8-12	8	12
MA25-8-14	8	14
MA25-10-12	10	12
MA25-10-14	10	14
MA25-12-14	12	14



**Metric Tube to Male
BSPT (R) Taper Run Tee**

PART NUMBER	TUBE (MM)	MALE BSPT (R)
MA23-4-1/8	4	1/8"
MA23-4-1/4	4	1/4"
MA23-6-1/8	6	1/8"
MA23-6-1/4	6	1/4"
MA23-8-1/8	8	1/8"
MA23-8-1/4	8	1/4"
MA23-10-1/4	10	1/4"
MA23-10-3/8	10	3/8"
MA23-12-3/8	12	3/8"
MA23-12-1/2	12	1/2"

BRASS PUSH-TO-CONNECT FITTINGS



Metric Tube Union

PART NUMBER	TUBE (MM)	TUBE (MM)
MA26-4-4	4	4
MA26-6-6	6	6
MA26-8-8	8	8
MA26-10-10	10	10
MA26-12-12	12	12
MA26-14-14	14	14



Metric Tube Union Tee

PART NUMBER	TUBE (MM)
MA29-4	4
MA29-6	6
MA29-8	8
MA29-10	10
MA29-12	12
MA29-14	14



Metric Tube Bulkhead Union

PART NUMBER	TUBE (MM)	TUBE (MM)
MA27-4-4	4	4
MA27-6-6	6	6
MA27-8-8	8	8
MA27-10-10	10	10
MA27-12-12	12	12



Metric Tube Extension

PART NUMBER	TUBE (MM)
MA39-4	4
MA39-6	6
MA39-8	8
MA39-10	10
MA39-12	12
MA39-14	14



Metric Tube Union Elbow

PART NUMBER	TUBE (MM)	TUBE (MM)
MA28-4-4	4	4
MA28-6-6	6	6
MA28-8-8	8	8
MA28-10-10	10	10
MA28-12-12	12	12
MA28-14-14	14	14



Metric Tube Plug

PART NUMBER	TUBE (MM)
MA40-4	4
MA40-6	6
MA40-8	8
MA40-10	10
MA40-12	12
MA40-14	14

PNEUMATIC TUBING



Standard Polyurethane Tubing

OUTSIDE DIAMETER (INCH/MM)	INSIDE DIAMETER (INCH)	WALL THICKNESS (INCH)	REEL SIZE OPTION KEY	COLOR CODE SUFFIX KEY
1/8	0.062	0.031	A = 100 FOOT ROLL	C - Clear
5/32 (4 mm)	.0093	0.031	B = 250 FOOT REEL (IF AVAILABLE)	BK - Black W - White
1/4	0.107	0.047	C = 500 FOOT REEL	R- Red NB - Navy Blue
3/8	0.170	0.063	D = 1000 FOOT REEL	G - Green Y - Yellow
5/16 (8mm)	0.125	0.063		LB - Light Blue
1/2	0.250	0.086		CB- Clear Blue

Ordering Instructions:

MATERIAL OF TUBING + SIZE = LENGTH OF REEL/ROLL + COLOR

PU14ANB - (PU) = POLYURETHANE SIZE: (14) = 1/4" OD LENGTH: (A) = 100 FEET COLOR: (W) = WHITE

Metric Polyurethane Tubing



OUTSIDE DIAMETER (MM/INCH)	INSIDE DIAMETER (MM)	WALL THICKNESS (MM)	REEL SIZE OPTION KEY	COLOR CODE SUFFIX KEY
4 mm (5/32)	2.4 mm	0.78 mm	A = 100 FOOT ROLL	C - Clear
6 mm	4 mm	1.0 mm	B = 250 FOOT REEL (IF AVAILABLE)	BK - Black W - White
8 mm (5/16)	5 mm	1.60 mm	C = 500 FOOT REEL	R - Red NB - Navy Blue
10 mm	6.5 mm	1.75 mm	D = 1000 FOOT REEL	G - Green Y - Yellow
12 mm	8 mm	2.0 mm		LB - Light Blue CB - Clear Blue

Ordering Instructions:

MATERIAL OF TUBING + SIZE = LENGTH OF REEL/ROLL + COLOR

PU06MAW - (PU) = POLYURETHANE SIZE: (06M) = 6mm LENGTH: (A) = 100 FEET COLOR: (W) = WHITE

R.U.B. NPT BALL VALVES



- 250 PSI LP_Gas
- NPT Fem x Fem Threads
- Brass Unplated Body
- PTFE Seat
- Chrome Plated Ball
- Nickel Plated Stem
- GCCL Approved
- Locking

- 15°F + 210°F
- NPT Fem x Fem Threads
- Brass Unplated Body
- PTFE Seat
- Chrome Plated Ball
- Nickel Plated Stem
- GCCL Approved
- Relieving/Locking

VALVE SIZE (NPT)	PART NUMBER	PSI WOG
1/4"	S95B45	600
3/8"	S95C45	600
1/2"	S95D45	600
3/4"	S95E45	600
1"	S95F45	600
1-1/4"	S95G45	600
1-1/2"	S95H45	600
2"	S95I45	600
2-1/2"	S95L41	600
3"	S95M41	600
4"	S95N41	600

VALVE SIZE (NPT)	PART NUMBER	PSI AIR
1/4"	S93B41	200
3/8"	S93C41	200
1/2"	S93D41	200
3/4"	S93E41	200
1"	S93F41	200
1-1/4"	S93G41	200
1-1/2"	S93H41	200
2"	S93I41	200

NPT MANIFOLDS



PART NUMBER	DESCRIPTION	FEMALE INLET NPT	FEMALE OUTLET NPT	TOTAL INLET PORTS	TOTAL OUTLET PORTS
AM-3-2	NPT Port Manifold	3/8"	1/4"	2	2
AM-3-3	NPT Port Manifold	3/8"	1/4"	2	3
AM-3-4	NPT Port Manifold	3/8"	1/4"	2	4
AM-3-5	NPT Port Manifold	3/8"	1/4"	2	5
AM-5-2	NPT Port Manifold	1/2"	3/8"	2	2
AM-5-3	NPT Port Manifold	1/2"	3/8"	2	3
AM-5-4	NPT Port Manifold	1/2"	3/8"	2	4
AM-5-5	90° NPT Port Manifold	1/2"	3/8"	2	5
AM-5-6	90° NPT Port Manifold	1/2"	3/8"	2	6

*Certain sizes come in Black Anodized as standard



PART NUMBER	DESCRIPTION	FEMALE INLET NPT	FEMALE OUTLET NPT	TOTAL INLET PORTS	TOTAL OUTLET PORTS
90-AM-3-2	90° NPT Port Manifold	3/8"	1/4"	2	4
90-AM-3-3	90° NPT Port Manifold	3/8"	1/4"	2	6
90-AM-3-4	90° NPT Port Manifold	3/8"	1/4"	2	8
90-AM-3-5	90° NPT Port Manifold	3/8"	1/4"	2	10
90-AM-5-2	90° NPT Port Manifold	1/2"	3/8"	2	4
90-AM-5-3	90° NPT Port Manifold	1/2"	3/8"	2	6
90-AM-5-4	90° NPT Port Manifold	1/2"	3/8"	2	8
90-AM-5-5	90° NPT Port Manifold	1/2"	3/8"	2	10

Additional size options and custom manifolds available

Continental FLEXAGrip™



Product Specifications

Application

For use with push-on fittings at maximum working pressures of 400 psi*. For low-pressure hydraulic pneumatic systems such as robotics. shop air systems. general industrial. maintenance and automotive assembly applications. Non-conductive. minimum electrical resistance greater than one (1) megohm per inch of hose length at 1000 volts DC. MSHA approved covers.

Construction

>Tube

Chemivic™ oil and heat-resistant synthetic rubber. RMA Class A (High Oil Resistance)

>Cover

MSHA approved Black (USMSHA 2G-1C-14C/27). Blue. Gray, Green. Red, White. Brown and Yellow (USMSHA 2G-1C-14C/28) (others: contact customer service). weather. abrasion and oil-resistant Carbryn™ rubber. RMA Class A (High Oil Resistance)

>Reinforcement

Braided (1) high-strength synthetic yarn laid at an angle for strength and coupling holding ability

Temperature Range

-40°F to 200°F (-40°C to 93°C)

Packaging

500' reels. maximum 4 pieces, 10' minimum length

Branding

Example: FLEXAGrip Non-conductive 3/8" 400 psi WP: Flame Resistant: USMSHA 2G-1C-14C/27. Made in U.S.A. Continental ContiTech

Couplings

Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

*1-inch rated at 300 psi.

FLEXAGrip™

BLACK	BLUE	GRAY	GREEN	RED	ID in.	mm	Nom. in.	OD mm	Max WP psi	MPa	Bend in.	Radius mm	Weight lb./ft.	kg/m
9272-04	9273-04	9274-04	9275-04	9276-04	1/4"	6.4	0.51	13.0	400	2.76	3	64	0.08	0.12
9272-06	9273-06	9274-06	9275-06	9276-06	3/8"	9.5	0.67	17.0	400	2.76	3	76	0.13	0.19
9272-08	9273-08	9274-08	9275-08	9276-08	1/2"	12.7	0.76	19.3	400	2.76	5	127	0.14	0.21
9272-12	9273-12	9274-12	9275-12	9276-12	3/4"	19.1	1.06	26.9	400	2.76	7	178	0.26	0.37
9272-16	9273-16	9274-16	9275-16	9276-16	1"	25.4	1.34	34.0	300	2.07	8	203	0.34	0.51

Hose design factor 4-1
T rated at 300 psi



Continental Insta-Grip™ 300



Product Specifications

Application

For use with push-on fittings at working pressures of 300 psi. For low-pressure hydraulic and pneumatic systems such as shop air systems, general industrial, and maintenance. Non-conductive, minimum electrical resistance, greater than 1 megohm per inch of hose length at 1000 volts DC. MSHA approved covers.

Construction

>Tube

Silicone is not used in the manufacturing of this hose. Chemivac oil- and heat-resistant synthetic rubber, ARPM Class A (High Oil Resistance)

>Cover

Black, green, blue, red, yellow and gray (for others contact customer service); MSHA approved, weather-, abrasion- and oil-resistant synthetic rubber; ARPM Class B (Medium Oil Resistance).

>Reinforcement

One braided high-strength synthetic yarn laid at the most effective angle for maximum strength and coupling holding ability.

Temperature Range

-40°F to 210°F (-40°C to 99°C)

Packaging

500' reels. maximum 4 pieces. 10' minimum

Branding

Example: Insta-Grip™ 1/4" 300 psi WP Flame-resistant USMSHA 2G-IC-14C/33 Made in USA Continental

Couplings

Contact fitting manufacturer for proper fitting recommendation and coupling procedure.

Order Codes

535-278 (black)	535-280 (red)
535-279 (green)	535-281 (blue)
535-294 (gray)	535-277 (yellow)

For 1" must use FLEXAGRIP.

Insta-Grip™ 300

BLACK	GREEN	GRAY	ID in.	mm	Nom. in.	OD mm	Max WP psi	MPa	Bend in.	Radius mm	Weight lb./ft.	kg/m
535-278-008	535-279-008	535-294-008	1/4"	6.4	0.54	13.7	300	2.07	3	64	0.10	0.15
535-278-012	535-279-012	535-294-012	3/8"	9.5	0.69	17.5	300	2.07	3	76	0.14	0.21
535-278-016	535-279-016	535-294-016	1/2"	12.7	0.81	20.6	300	2.07	5	127	0.17	0.25
535-278-024	535-279-024	535-294-024	3/4"	19.1	1.07	27.2	300	2.07	7	178	0.26	0.39
9272-16	9275-16	9274-16	1"	25.4	1.34	34.0	300	2.07	8	203	0.34	0.51

RED	BLUE	ID in.	mm	Nom. in.	OD mm	Max WP psi	MPa	Bend in.	Radius mm	Weight lb./ft.	kg/m
535-280-008	535-281-008	1/4"	6.4	0.54	13.7	300	2.07	3	64	0.10	0.15
535-280-012	535-281-012	3/8"	9.5	0.69	17.5	300	2.07	3	76	0.14	0.21
535-280-016	535-281-016	1/2"	12.7	0.81	20.6	300	2.07	5	127	0.17	0.25
535-280-024	535-281-024	3/4"	19.1	1.07	27.2	300	2.07	7	178	0.26	0.39
9276-16	9273-16	1"	25.4	1.34	34.0	300	2.07	8	203	0.34	0.51

Hose design factor 4-1



Continental Frontier™



Product Specifications

Application

An economical air and water hose, Frontier™ is for a wide range of industrial, construction and agricultural applications. Available in 200, 250, and 300 psi working pressures.

Construction

>Tube

EPDM synthetic rubber, ARPM Class C (Limited Oil Resistance)

>Cover

Black, Red, Yellow, Green or Blue EPDM synthetic rubber Class C (Limited Oil Resistance)

>Reinforcement

Spiral synthetic yarn, 2" is braided

Temperature Range

-40°F to 210°F (-40°C to 99°C)

Order Codes - See below

Packaging

90% one-piece reels up to 1"

3/16"-3/4" – 500' reels, maximum 3 pieces, 50' increments

1" – 450' reels, maximum 3 pieces, 50' increments

1¼" – 400' reels, maximum 3 pieces, 50' increments

1½" – 300' reels, maximum 3 pieces, 50' increments

2" – 200', cartons, maximum 3 pieces, 50' increments

Coupled assemblies available in 1/4", 3/8" and 1/2" in red.

Branding

Example: VariFlex™ Non-conductive 1/2" (12.7 mm) 200 psi WP Made in USA Continental

Couplings

Refer to the Continental Industrial Hose Assembly Manual for crimp specifications.

Coupled assemblies available.

Frontier™ 200

SAP # BLACK	RED	ID in.	mm	Nom. in.	OD mm	Max WP psi	MPa	Weight lb./ft.	kg/m
569-009-064	569-011-064	1/4"	6.4	0.50	12.7	200	1.38	0.09	0.13
569-009-095	569-011-095	3/8"	9.5	0.67	17.0	200	1.38	0.15	0.22
569-009-127	569-011-127	1/2"	12.7	0.81	20.6	200	1.38	0.20	0.30
569-009-191	569-011-191	3/4"	19.1	1.12	28.5	200	1.38	0.34	0.51
569-009-254	569-011-254	1"	25.4	1.44	36.8	200	1.38	0.54	0.80
569-009-318	569-011-318	1¼"	31.8	1.73	44.0	200	1.38	0.75	1.12
569-009-381	569-011-381	1½"	38.1	1.98	50.3	200	1.38	0.86	1.28
536-035-054	536-040-064	2"	50.8	2.50	63.5	200	1.38	1.16	1.73

Hose design factor 4-1



Continental VariFlex™



Product Specifications

Application

A good-quality, economical general purpose hose for industrial air service, compressor lines, pneumatic tools, low-pressure spray and many other applications where the need for oil resistance is moderate. Non-conductive, minimum electrical resistance greater than 1 megohm per inch of length of hose at 1000 volts DC. Available in 200 and 300 psi working pressures.

Construction

> Tube

Nitrile synthetic rubber, ARPM Class A (High Oil Resistance)

> Cover

Red, blue or black Chemivic synthetic rubber, ARPM Class A (High Oil Resistance)

> Reinforcement

Spiral synthetic yarn (3/16"-1½"), braided synthetic yarn (2")

Temperature Range

-20°F to 210°F (-29°C to 99°C)

Packaging

90% one-piece reels up to 1"
3/16"-3/4" – 500' reels, maximum 3 pieces, 50' increments
1" – 450' reels, maximum 3 pieces, 50' increments
1¼" – 400' reels, maximum 3 pieces, 50' increments
1½" – 300' reels, maximum 3 pieces, 50' increments
Coupled assemblies available in 1/4", 3/8" and 1/2" in red.

Branding

Example: VariFlex™ Non-conductive 1/2" (12.7 mm) 200 psi WP Made in USA Continental

Couplings

Refer to the Continental Industrial Hose Assembly Manual for crimp specifications.

Coupled assemblies available.

Order Codes - See below

VariFlex™ 300

SAP #		ID		Nom.	OD	Max WP		Weight	
BLACK	RED	in.	mm	in.	mm	psi	MPa	lb./ft.	kg/m
569-006-095	569-008-095	3/8"	9.5	0.69	17.5	300	2.07	0.19	0.28
569-006-127	569-008-127	1/2"	12.7	0.86	21.8	300	2.07	0.26	0.39
569-006-191	569-008-191	3/4"	19.1	1.19	30.2	300	2.07	0.42	0.63
569-006-254	569-008-254	1"	25.4	1.50	38.1	300	2.07	0.62	0.92
N/A	569-008-318	1¼"	31.8	1.77	45.6	250	1.72	0.84	1.25
N/A	569-008-381	1½"	38.1	2.08	53.2	250	1.72	1.01	1.50

Hose design factor 4-1



INDUSTRIAL HOSE ACCESSORIES



Air-Way FJIC Swivel x Hose Barb (Steel)

PART NUMBER	HOSE BARB	FEM JIC SWIVEL
4305-20-20	1-1/4"	1-1/4"
4305-24-24	1-1/2"	1-1/2"
4305-32-32	2"	2"

Combination Nipples



SIZE NPT	HOSE I.D.	PART # PLATED STEEL	PART # 316 STAINLESS	PART # BRASS
3/4"	3/4"	HAPS-3	HASS-3	N/A
1"	1"	HAPS-4	HASS-4	HAB-4
1-1/4"	1-1/4"	HAPS-5	HASS-5	HAB5
1-1/2"	1-1/2"	HAPS-6	HASS-6	HAB-6
2"	2"	HAPS-8	HASS-8	HAB-8

Double Bolt Clamp



PART NUMBER	HOSE O.D. MIN	HOSE O.D. MAX
JX-49	1-28/64	1"
DL-20	1-48/64	1-1/4"
DL-24	2-7/64	1-1/2"
DL-32	2-20/64	2"
DL-306	2-48/64	2-1/2"
DL-328	3-4/64	2-1/2"

ZSI MULTILINE CLAMPING SYSTEM



Z-Clamp 1-1/2" Center to Center

PART NUMBER	# HOLES	JIC SIZE
HAC-1-2	2	1/8"
HAC-1-3	3	1/8"
HAC-1-4	4	1/4"
HAC-1-5	5	1/4"
HAC-1-6	6	3/8"
HAC-1-7	7	3/8"
HAC-1-32	32	1/2"

Z-Clamp 2" Center to Center

PART NUMBER	# HOLES	JIC SIZE
HAC-2-2	2	1/8"
HAC-2-3	3	1/8"
HAC-2-4	4	1/4"
HAC-2-5	5	1/4"
HAC-2-6	6	3/8"
HAC-2-7	7	3/8"
HAC-2-24	24	1/2"

Z-Clamp Center to Center

PART NUMBER	# HOLES	JIC SIZE
HAC-3-2	2	1/8"
HAC-3-3	3	1/8"
HAC-3-4	4	1/4"
HAC-3-5	5	1/4"
HAC-3-6	6	3/8"
HAC-3-16	16	3/8"



Threaded Studs

PART NUMBER	CENTER SIZE
FRT150	1-1/2", 2"
FRT300	3"



Junction Adapters

PART NUMBER	JIC TUBE SIZE	CENTER DIMENSION
FRB1504	1/4"	1-1/2"
FRB1506	3/8"	1-1/2"
FRB1508	1/2"	1-1/2"
FRB2004	1/4"	2"
FRB2006	3/8"	2"
FRB2008	1/2"	2"
FRB20012	3/4"	2"



Threaded Studs

PART NUMBER	CENTER SIZE
FRN150	1-1/2"
FRN200	2"
FRN300	3"

Rubber Grommets

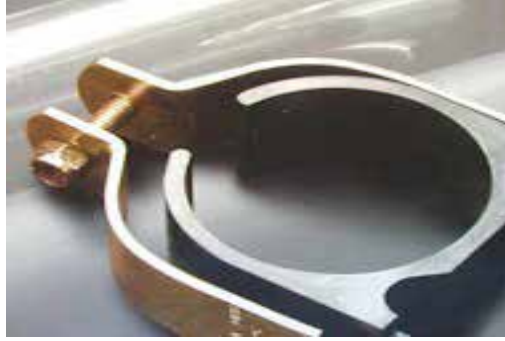
PART NUMBER	TUBE/PIPE SIZE	CENTER
G-1-4	1/4"	1-1/2
G-1-6	3/8"	1-1/2
G-1-8	1/2"	1-1/2
G-1-10	5/8"	1-1/2
G-1-12	3/4"	1-1/2

PART NUMBER	TUBE/PIPE SIZE	CENTER
G-2-4	1/4"	2"
G-2-6	3/8"	2"
G-2-8	1/2"	2"
G-24-P	1/4"	2"
G-2-10	5/8"	2"
G-2-6P	3/8"	2"
G-2-12	3/4"	2"
G-2-8P	1/2"	2"
G-2-16	1"	2"
G-2-12P	3/4"	2"

PART NUMBER	TUBE/PIPE SIZE	CENTER
G-3-4	1/4"	3"
G-3-6	3/8"	3"
G-3-8	1/2"	3"
G-3-4P	1/4"	3"
G-3-10	5/8"	3"
G-3-6P	3/8"	3"
G-3-12	3/4"	3"
G-3-8P	1/2"	3"
G-3-16	1"	3"
G-3-12P	3/4"	3"
G-3-20	1-1/4"	3"



HYDRAZORB PIPE & TUBE CLAMPS



Pipe Clamps

NOM PIPE SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
PIPE O.D.	.54	.675	.84	1.05	1.315	1.66	1.90	2.375	2.875	3.5
PART #	200025	200037	200050	200075	200100	200125	200150	200200	200250	200300
BOX QTY	24	24	24	12	12	12	12	EACH	EACH	EACH

NOMINAL PIPE SIZE	3-1/2"	4"	5"	6"
PIPE O.D.	4.0	4.50	5.563	6.625
PART NUMBER	200350	200400	200500	200600
BOX QTY	EACH	EACH	EACH	EACH

Tube Clamps

TUBE O.D.	.250	.312	.375	.470	.500	.625	.750	.875	1.00	1.125
PART #	100025	100031	100037	100047	100050	100062	100075	100087	100100	100112
BOX QTY	24	24	24	24	24	24	24	24	12	12

TUBE O.D.	1.190	1.250	1.500	1.625	1.750	2.000	2.125	2.250	2.375	2.500
PART #	100119	100125	100150	100162	100175	100200	100212	100225	100237	100251
BOX QTY	12	12	12	12	12	12	EACH	EACH	EACH	EACH



STEEL HYDRAULIC LINE TUBING

Metric Sizes available

OUTSIDE DIAMETER	WALL THICKNESS	INSIDE DIAMETER	PART NUMBER	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI)
1/8"	0.028	0.069	CSHT-012-028	5,000	20,000
3/16"	0.028	0.131	CSHT-019-028	3,360	13,440
1/4"	0.035	0.18	CSHT-025-035-SI	3,150	12,600
5/16"	0.035	0.18	CSHT-031-035	2,515	10,063
3/8"	0.035	0.305	CSHT-038-035-SI	2,100	8,400
3/8"	0.049	0.277	CSHT-038-049-SI	2,940	11,760
1/2"	0.035	0.43	CSHT-050-035	1,575	6,300
1/2"	0.049	0.402	CSHT-050-049-SI	2,205	8,820
1/2"	0.065	0.37	CSHT-050-065-SI	2,925	11,700
5/8"	0.049	0.527	CSHT-062-049-SI	1,764	7,056
5/8"	0.065	0.495	CSHT-062-065-SI	2,340	9,360
5/8"	0.083	0.459	CSHT-062-083	2,987	11,950
3/4"	0.049	0.652	CSHT-075-049	1,470	5,880
3/4"	0.065	0.62	CSHT-075-065-SI	1,950	7,800
3/4"	0.083	0.584	CSHT-075-083-SI	2,490	9,960
7/8"	0.065	0.745	CSHT-088-065	1,670	6,680
7/8"	0.083	0.709	CSHT-088-083	2,132	8,530
1"	0.049	0.902	CSHT-100-049	1,102	4,410
1"	0.065	0.87	CSHT-100-065-SI	1,462	5,850
1"	0.083	0.834	CSHT100-083-SI	1,867	7,470
1"	0.095	0.81	CSHT-100-095-SI	2,137	8,550
1"	0.109	0.782	CSHT-100-109	2,452	9,810
1-1/4"	0.083	1.084	CSHT-125-083	1,492	5,970
1-1/4"	0.095	1.06	CSHT-125-095	1,710	6,840
1-1/4"	0.109	1.032	CSHT-125-109-SI	1,960	7,840
1-1/4"	0.120	1.01	CSHT-125-120	2,160	8,640
1-1/2"	0.083	1.334	CSHT-150-083	1,245	4,980
1-1/2"	0.095	1.31	CSHT-150-095	1,425	5,700
1-1/2"	0.120	1.26	CSHT-150-120	1,800	7,200

STRUT/CHANNEL/SPRING NUTS



BASE SIZES (")	GAUGE	STYLES	FINISHES
158 - 158 = 1-5/8" x 1-5/8"	12 = 12 Gauge	D = Welded Back to Back	GR = Green
158 - 138 = 1-5/8" x 1-3/8"	14 = 14 Gauge	EH = Elongated Holes	PL = Plain
158 - 1316 = 1-5/8" x 1-3/16"	16 = 16 Gauge	LS = Long Slots	PG = PreGalvanized
158 - 100 = 1-5/8" x 1"	19 = 19 Gauge	CI = Concrete Inserts	GG = Gold Galvanized
158 - 078 = 1-5/8" x 7/8"		HO = Holes, 1 Side	304SS = Stainless Steel
58 - 2716 = 1-5/8" x 2-7/16"		KO = Knock Outs	AL = Aluminum
158 - 314 = 1-5/8" x 3-1/4"		H3—Holes, 3 Sides	FG = Fiberglass
1316 - 1316 = 13/16" x 13/16"			

Ordering Example:

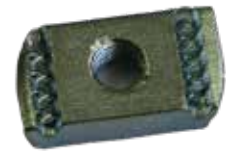
158-158-12-D-GR = 1-5/8" x 1-5/8", 12 Gauge, Double, Green



Spring Nut (Reg Spring)



Spring Nut (Short Spring)



Channel Nut (No Spring)

PART NUMBER	NUT SIZE THREAD
UC1006-1024	#10 -24
UC1006-1420-I	1/4" -20
UC1007-I	5/16" -18
UC1007-M8	5/16" -M8
UC1008-I	3/8" -16
UC1008-M10	3/8" -M10
UC1009 UC1010-I	7/16" -14
UC1010-I	1/2" -13

PART NUMBER	NUT SIZE THREAD
UC4006-1024	#10 -24
UC4006-1420-I	1/4" -20
UC4006-M6	1/4" -M6
UC4007-I	5/16" -M8
UC4007-M8	3/8" -16
UC4008	3/8" 16
UC4008-M10	3/8" -M10
UC4010	1/2" -13

PART NUMBER	NUT SIZE THREAD
UC3006-1024	#10 -24
UC3006-1420-I	1/4" -20
UC3006-M6	1/4" -M6
UC3007	5/16" -M8
UC3007-M8	5/16" -M8
UC3008-1	3/8" -16
UC3008-M10	3/8" -M10
UC3010-1	1/2" -13

STRUT/CHANNEL VINYL END COVER



PART NUMBER	STRUT SIZE	STYLE	COLOR
UC078VE-BLK	7/8"	SINGLE	BLACK
UC078VE-GRN	7/8"	SINGLE	GREEN
UC078VE-GRY	7/8"	SINGLE	GRAY
UC078DVE-GRY	7/8"	DOUBLE	GRAY
UC138DVE-GRN	1-3/8"	DOUBLE	GREEN
UC138VE-GRN	1-3/8"	SINGLE	GREEN
UV138VE-GRAY	1-3/8"	SINGLE	GRAY
UC158VE-BLK	1-5/8"	SINGLE	BLACK
UC158VED-GRN	1-5/8"	DOUBLE	GREEN
UC158VE-GRN	1-5/8"	SINGLE	GREEN
UC158VE-GRY	1-5/8"	SINGLE	GRAY
UC2716VE-BLK	2-7/16"	SINGLE	BLACK
UC2716VE-GRN	2-7/16"	SINGLE	GREEN
UC2716VE-GRY	2-7/16"	SINGLE	GRAY
UC314VE-BLK	3-1/4"	SINGLE	BLACK
UC314VE-GRN	3-1/4"	SINGLE	GREEN
UC314VE-GRY	3-1/4"	SINGLE	GRAY

STRUT/CHANNEL CLOSURE STRIP



PART NUMBER	STRUT SIZE	COLOR/ MATERIAL
UC1184P-BK	1-5/8"	BLACK/PLASTIC
UC1184P-GRY	1-5/8"	GRAY/PLASTIC
UC1184P-PL	1-5/8"	PLAIN/STEEL

A Team Committed to Hose & Fitting Solutions!

Hydra-Flex is a subsidiary of Air-Way Global Manufacturing. Air-Way produces a wide range of adapters including the following styles:

- JIC (Steel/Stainless Steel)
- Flare-O
- Oring Face Seal (ORFS)
- Pipe (NPTF)
- International (BSPP, Metric, Conversion)
- Brass (JIC, Push-On, NPT)

In addition to maintaining a large inventory of Air-Way adapters, we stock the following products:

- VOSS Metric Compression Adapters/Flanges
- Manuli - Hydraulic Hose, Crimp Fittings, Quick Disconnects
- Patriot Brass Tube and Push-On Hose Barbs
- Continental Industrial/Push-On Hose
- CEJN Quick Disconnects
- HydraZorb Pipe and Tube Clamps
- Foster Quick Disconnects
- Hydraulic Tubing (inch/Metric)
- Metric Conversion Adapters
- Flange Product



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