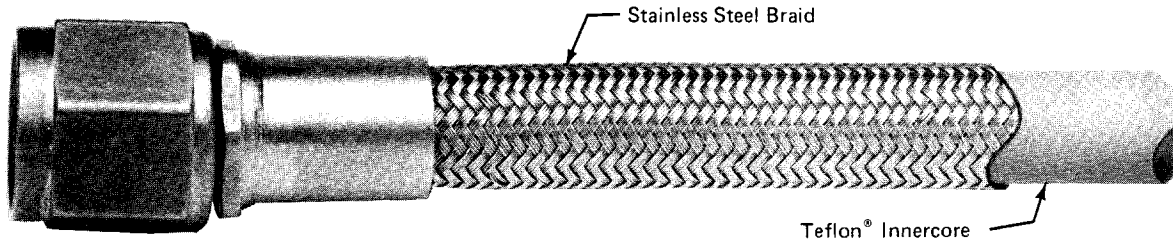




PREECE INC.
ENGINEERING
BULLETIN

TEFLON® HOSE ASSEMBLIES
MEDIUM PRESSURE
 Bulletin PEB-5



APPLICATIONS AND ENGINEERING INFORMATION

WORKING PRESSURE: Assemblies will operate up to 3000 psi, depending on size, temperature, and surge conditions. General usage is 1500 psi.

TEMPERATURE RANGE: -65°F to 450°F (-54°C to 232°C)

APPLICATIONS: Coolant lines, hydraulics, fuel and other applications where a pure Teflon® core tube is desirable (no additives such as carbon black). If a conductive liner is required, use hose described in PEB-6.

CONSTRUCTION

INNERCORE: Extruded non conductive Teflon® liner

REINFORCEMENT: Corrosion resistant stainless steel wire braid (Type 300)

FITTINGS: Permanently attached. CRES 300 or customer specified material. Tamper-proof fittings eliminate possibility of accidental loosening of fittings. End fittings with 45° and 90° angles are manufactured with formed elbows to reduce pressure drops.

MILITARY STANDARDS

ASSEMBLY: Conforms to MIL-H-25579 with the exception that the liner has no additives (non-conductive).

HOSE: Conforms to MIL-H-27267 with the exception that the liner has no additives (non-conductive).

SPECIAL DESIGN

P.I. has designed and fabricated special hose assemblies, preformed hose assemblies and specially configured end fittings for the aerospace/marine industry. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
101-4	.187	4.7	.340	9	1.5	38	1500	103	12,000	828	.08	.119
101-5	.250	6.4	.400	10	2.0	51	1500	103	10,000	688	.09	.134
101-6	.312	7.9	.465	12	3.5	89	1500	103	9,000	620	.12	.179
101-8	.406	10.3	.580	15	4.5	117	1500	103	8,000	552	.15	.223
101-10	.500	12.7	.680	17	5.0	127	1500	103	7,000	483	.20	.298
101-12	.625	15.9	.800	20	6.0	152	1500	103	6,000	412	.25	.372
101-16	.875	22.2	1.130	29	7.4	188	1250	103	5,000	344	.52	.774
101-20	1.125	28.6	1.380	35	11.0	279	1000	103	4,000	276	.66	.982

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

101000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 3/4" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

101007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

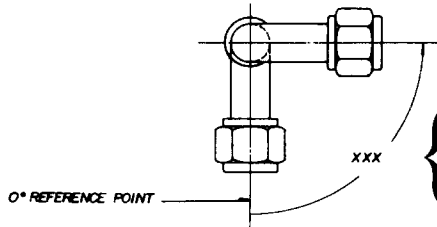
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

101003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNINATION
 _____ ASSEMBLY LENGTH 17 3/4" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"
DASH SIZE	-4	-5	-6	-8	-10	-12	-16	-20
LETTER CODE	F	G	H	J	K	L	M	N

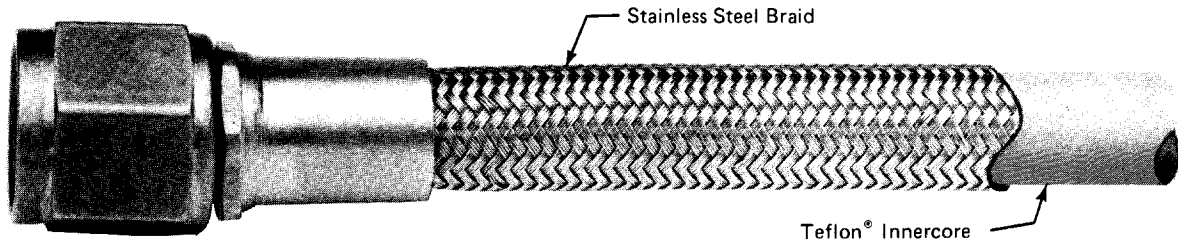
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
D = Aluminum

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
101000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				101006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
101001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				101007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
101002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				101008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
101003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				101009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
101004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				101010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
101005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				101011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

TEFLON® HOSE ASSEMBLIES
MEDIUM PRESSURE
CONDUCTIVE LINER
 Bulletin PEB-6



APPLICATIONS AND ENGINEERING INFORMATION

WORKING PRESSURE: Normal operating pressure 1500 psi through -08 size. May be used at higher pressures if there are no surges and lower temperature.

TEMPERATURE RANGE: -65°F to +450°F (-54°C to +232°C)

APPLICATIONS: Hydraulic and other applications where a conductive liner is desirable. If a non conductive liner is required see PEB-5.

VACUUM: Full vacuum through -10 size. Larger sizes will require internal support spring.

CONSTRUCTION

INNERCORE: Extruded Teflon® liner (conductive).

REINFORCEMENT: Corrosion resistant stainless steel braid (Type 300)

FITTINGS: Permanently attached. CRES 300 or customer specified material. Tamper proof fittings eliminate possibility of accidental loosening of fittings. End fittings with 45° and 90° angles are manufactured with formed elbows to reduce pressure drops.

MILITARY SPECIFICATIONS

ASSEMBLY: Conforms to MIL-H-25579

HOSE: Conforms to MIL-H-27267

SPECIAL DESIGNS

Preece Inc. has designed and fabricated special hose assemblies, preformed hose assemblies and specially configured end fittings for the aerospace and marine industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
102-3	.125	3.2	.260	6.6	1.5	38.1	1500	103	12,000	828	.045	.066
102-4	.187	4.8	.340	8.6	2.0	50.8	1500	103	12,000	828	.081	.120
102-5	.250	6.4	.400	10.2	2.0	50.8	1500	103	10,000	689	.098	.146
102-6	.312	7.9	.465	11.8	4.0	101.6	1500	103	9,000	621	.118	.176
102-8	.406	10.3	.580	14.7	4.6	116.8	1500	103	8,000	552	.145	.216
102-10	.500	12.7	.680	17.3	5.5	139.7	1000	69	7,000	483	.199	.296
102-12	.625	15.9	.800	20.3	6.5	165.1	1000	69	5,000	345	.246	.366
102-16	.875	22.2	1.130	28.7	7.5	190.5	1000	69	5,000	345	.517	.770
102-20	1.125	28.6	1.380	35.1	11.0	279.4	1000	69	4,000	276	.580	.863
102-24	1.375	34.9	1.700	43.2	14.0	355.6	1000	69	4,000	276	.842	1.253

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

102000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 $\frac{1}{2}$ " LAST DIGIT IN $\frac{1}{8}$ INCH INCREMENTS
 SIZE ($\frac{1}{2}$ " OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

102007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 $\frac{1}{2}$ " LAST DIGIT IN $\frac{1}{8}$ INCH INCREMENTS
 SIZE ($\frac{1}{4}$ " OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

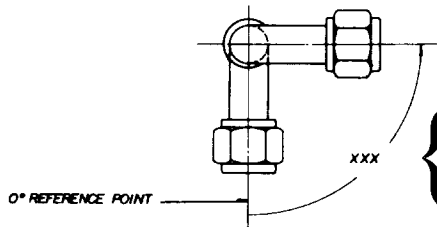
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

102003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE ($\frac{1}{4}$ " Tube Size) _____ FITTING MATERIAL DESIGNINATION
 _____ ASSEMBLY LENGTH 17 $\frac{3}{8}$ " LAST DIGIT IN $\frac{1}{8}$ INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	$\frac{1}{4}$ "	$\frac{3}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "
DASH SIZE	-4	-5	-6	-8	-10	-12	-16	-20	-24
LETTER CODE	F	G	H	J	K	L	M	N	P

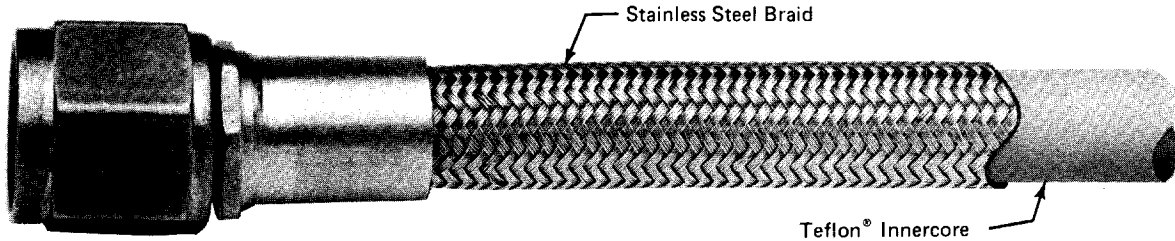
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
D = Aluminum

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
102000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION			---	102006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			---
102001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION			---	102007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			---
102002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			---	102008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			---
102003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION			---	102009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			---
102004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			---	102010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			---
102005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			---	102011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			---



PREECE INC.
ENGINEERING
BULLETIN

TEFLON® HOSE ASSEMBLIES
HIGH PRESSURE
Bulletin PEB-7



APPLICATIONS AND ENGINEERING INFORMATION

WORKING PRESSURE: Normal operating pressure 3000 psi.
TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)
APPLICATIONS: Hydraulic and other applications where a conductive Teflon liner is desirable. (For a non conductive liner, substitute 104 for 103 in part numbers.)

CONSTRUCTION

INNER CORE: Extruded conductive Teflon® liner.
REINFORCEMENT: Corrosion resistant stainless steel braid (Type 300)
FITTINGS: Permanently attached. CRES 300 or customer specified material. Tamper proof fittings eliminate possibility of accidental loosening of fitting connection from hose. End fittings with 45° and 90° angles are manufactured with formed elbows to reduce pressure drop.

MILITARY SPECIFICATIONS

Assembly conforms to AS1339. Not recommended for use in high pressure pump discharge. Please contact our plant for such applications.

SPECIAL DESIGN

Preece Inc. has designed and fabricated special hose assemblies, preformed hose assemblies and specially configured end fittings for the aerospace and marine industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NO.	MINIMUM I.D.		MAXIMUM O.D.		MINIMUM BEND RADIUS		WORKING PRESSURE		BURST PRESSURE				MAXIMUM WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	BAR	Minumum @ 70°F		Minumum @ 400°F		Lbs/Ft	Kg/M
									PSI	BAR	PSI	BAR		
103-4	0.212	5.4	0.390	9.9	1.5	38.1	3,000	207	16,000	1104	12,000	828	0.113	0.168
103-6	0.296	7.6	0.490	12.4	2.5	63.5	3,000	207	14,000	966	10,500	725	0.180	0.268
103-8	0.391	9.9	0.615	15.6	2.9	73.7	3,000	207	14,000	966	10,500	725	0.240	0.357
103-10	0.485	12.3	0.730	18.5	3.3	83.8	3,000	207	12,000	828	9,000	621	0.324	0.482
103-12	0.602	15.3	0.990	25.1	4.0	101.6	3,000	207	12,000	828	9,000	621	0.660	0.982
103-16	0.852	21.6	1.270	32.3	5.0	127.0	3,000	207	12,000	828	9,000	621	1.020	1.518

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

103000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

103007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

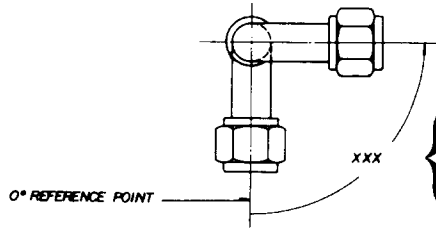
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

103003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION
 _____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"
DASH SIZE	-4	-6	-8	-10	-12	-16
LETTER CODE	F	H	J	K	L	M

FITTING MATERIAL DESIGNATION

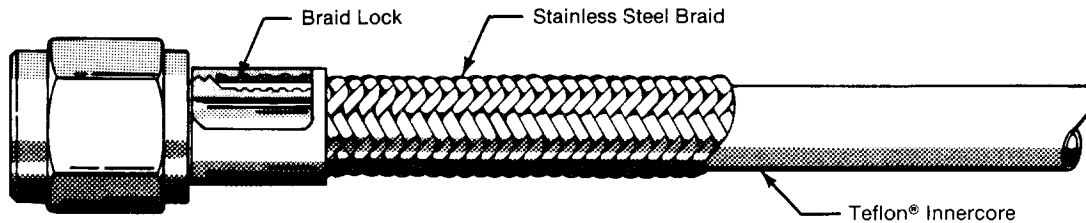
C = Stainless (CRES 304)
 A = Stainless (CRES 316)
 D = Aluminum

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
103000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				103006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
103001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				103007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
103002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				103008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
103003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				103009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
103004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				103010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
103005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				103011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

TEFLON® HOSE ASSEMBLIES
HIGH PRESSURE
Bulletin PEB 53



APPLICATIONS AND ENGINEERING INFORMATION

WORKING PRESSURE: Normal operating pressure 6000 psi.
TEMPERATURE RANGE: -65° F to +400° F (-54° C to +204° C)
APPLICATIONS: Hydraulic and other applications where a conductive Teflon® liner is desirable. (For a non conductive line substitute hose 105 for 106 in the part number.)

CONSTRUCTION

INNER CORE: Extruded conductive Teflon® liner.
REINFORCEMENT: Corrosion resistant stainless steel braid (Type 300)
FITTINGS: Permanently attached. CRES 300 or customer specified material. Tamper proof fittings eliminate possibility of accidental loosening of fitting connection from hose. End fittings with 45° and 90° angles are manufactured with formed elbows to reduce pressure drop.

SPECIAL DESIGN

Preece Inc. has designed and fabricated special hose assemblies, preformed hose assemblies and specially configured end fittings for the aerospace and marine industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
106-4	.230	5.8	.495	12.6	3.0	76.2	6000	414	24,000	1656	.24	.36
106-6	.300	7.6	.615	15.6	5.0	127.0	6000	414	24,000	1656	.40	.60
106-8	.400	10.1	.725	18.4	5.8	147.3	6000	414	24,000	1656	.50	.74
106-10	.520	13.2	.885	22.5	6.3	160.0	4000	276	12,000	828	.67	1.00
106-12	.650	16.5	1.060	26.9	7.8	198.1	4000	276	12,000	828	.93	1.38
106-16	.875	22.2	1.370	34.8	9.6	243.8	4000	276	12,000	828	1.45	2.16

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION

106000 8 C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION

106001 4 M 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

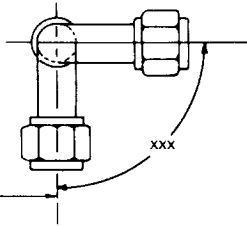
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

106003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION
 _____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"
DASH SIZE	-4	-6	-8	-10	-12	-16
LETTER CODE	F	H	J	K	L	M

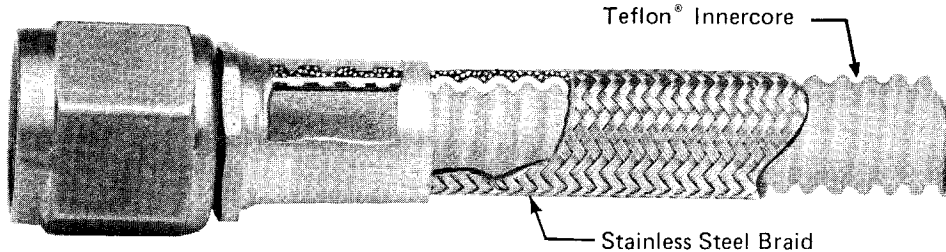
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
M = Monel QQ-N-281
P = Copper Nickel

BASIC HOSE ASSEMBLY PART NO	DESCRIPTION		FITTING A	FITTING B	BASIC HOSE ASSEMBLY PART NO	DESCRIPTION		FITTING A	FITTING B
	FITTING A	FITTING B				FITTING A	FITTING B		
106000	STRAIGHT SWIVEL AN CONNECTION	STRAIGHT SWIVEL AN CONNECTION	ASSEMBLY LENGTH		106006	STRAIGHT SWIVEL FLARELESS CONNECTION	STRAIGHT SWIVEL FLARELESS CONNECTION	ASSEMBLY LENGTH	
106001	STRAIGHT AN CONNECTION	90° SWIVEL AN CONNECTION			106007	STRAIGHT SWIVEL FLARELESS CONNECTION	90° SWIVEL FLARELESS CONNECTION		
106002	STRAIGHT SWIVEL AN CONNECTION	45° SWIVEL AN CONNECTION			106008	STRAIGHT SWIVEL FLARELESS CONNECTION	45° SWIVEL FLARELESS CONNECTION		
106003	90° SWIVEL AN CONNECTION	90° SWIVEL AN CONNECTION			106009	90° SWIVEL FLARELESS CONNECTION	90° SWIVEL FLARELESS CONNECTION		
106004	45° SWIVEL AN CONNECTION	45° SWIVEL AN CONNECTION			106010	45° SWIVEL FLARELESS CONNECTION	45° SWIVEL FLARELESS CONNECTION		
106005	90° SWIVEL AN CONNECTION	45° SWIVEL AN CONNECTION			106011	90° SWIVEL FLARELESS CONNECTION	45° SWIVEL FLARELESS CONNECTION		



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
 HOSE ASSEMBLIES
 Bulletin PEB-8



APPLICATIONS AND ENGINEERING INFORMATION

Low pressure hose assemblies where flexibility and low weight are important in marine, aerospace and aircraft applications. Especially designed for coolants with a low surface tension. The liner is a non conductive Teflon® (no additives). If a conductive liner is required, see PEB-13. For a higher pressure convoluted hose, the hose part number is 304. For engineering information consult our plant.

If a non conductive convoluted Teflon® liner with a non metallic braid reinforcement is desired, see Bulletin PEB-9. If a conductive liner with a non metallic braid is required see PEB-21.

WORKING PRESSURE: 200 psi (14 BAR)

TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (non conductive)

REINFORCEMENT: Corrosion resistant stainless steel wire braid (Type 300)

FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies meet requirements of P.S. 1035 for marine applications. Also meet requirements and tested to specifications P.S. 1046 and Rockwell LE 271-0045 for manned aircraft with the exception of the conductivity requirement. For conductive hose see PEB-13.

SPECIAL DESIGN

Preece Inc. has designed and fabricated many complex configurations and flange end fittings for marine, aerospace and aircraft industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
301-4	.29	7.4	.46	11.7	1.3	33.0	200	14	800	56	.09	.13
301-6	.38	9.7	.58	14.7	2.3	58.4	200	14	800	56	.12	.18
301-8	.53	13.5	.82	20.8	2.9	73.7	200	14	800	56	.22	.33
301-12	.79	20.1	1.08	27.4	3.0	76.2	200	14	800	56	.32	.48
301-16	1.05	26.7	1.34	34.0	4.5	114.3	200	14	800	56	.44	.65
301-20	1.26	32.0	1.58	40.1	6.0	152.4	200	14	800	56	.55	.82
301-24	1.52	38.6	1.80	45.7	7.0	177.8	200	14	800	56	.66	.98
301-32	2.00	50.8	2.35	59.7	9.0	228.6	200	14	800	56	.78	1.16
301-48	3.05	77.5	3.50	88.9	15.0	381.0	200	14	800	56	1.80	2.67
301-64	4.05	102.9	4.50	114.3	24.0	609.6	200	14	800	56	2.30	3.42

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

301000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

301007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

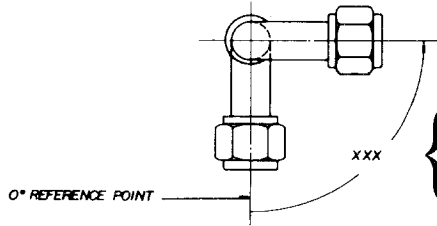
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

301003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION
 _____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
DASH SIZE	-4	-6	-8	-10	-12	-16	-20	-24	-32	-48	-64
LETTER CODE	F	H	J	K	L	M	N	P	R	U	Y

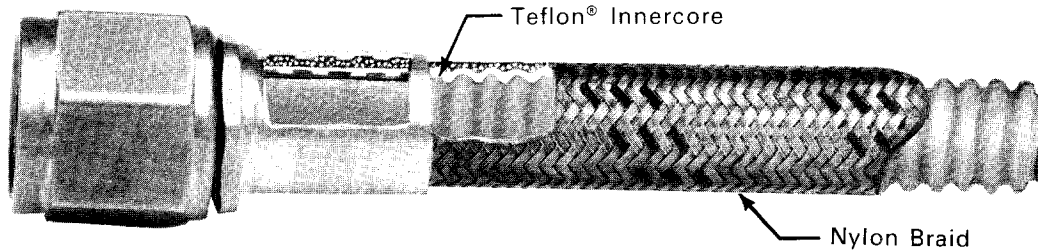
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
D = Aluminum

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
301000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				301006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
301001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				301007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
301002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				301008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
301003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				301009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
301004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				301010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
301005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				301011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
 HOSE ASSEMBLIES
 Bulletin PEB-9



APPLICATIONS AND ENGINEERING INFORMATION

Low pressure hose assemblies where flexibility and low weight are important in marine, aerospace and aircraft applications. Especially designed for coolants with a low surface tension. The liner is a non conductive Teflon® (no additives). If a conductive liner with fabric braid is required, see PEB-21 and 26.

If a non conductive convoluted Teflon® liner with a metallic braid reinforcement is desired, see Bulletin PEB-8. If a conductive liner with metal braid is required see PEB-13. For engineering information consult our plant.

WORKING PRESSURE: 200 and 175 psi (14 and 12 BAR)

TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (non conductive)
 REINFORCEMENT: Nylon
 FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies with metal braid meet requirements of P.S. 1035 for marine applications. They also meet requirements and were tested to specifications P.S. 1046 and Rockwell LE 271-0045 for manned aircraft with the exception of the conductivity requirement.

SPECIAL DESIGNS

Preece Inc. has designed and fabricated special hose assemblies, preformed hose assemblies and specially configured end fittings for the aerospace and marine industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
302-4	.29	7.4	.46	11.7	.50	12.7	200	14	800	56	.05	.08
302-6	.38	9.7	.58	14.7	.80	20.4	200	14	800	56	.07	.11
302-8	.53	13.5	.82	20.8	1.25	31.9	200	14	800	56	.13	.20
302-10	.62	15.2	.86	21.1	1.50	38.3	175	12	700	48	.14	.21
302-12	.79	20.1	1.08	27.4	2.00	51.0	175	12	700	48	.19	.29
302-16	1.05	26.7	1.34	34.0	3.00	76.2	175	12	700	48	.25	.38

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

302000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

302007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNINATION

Example 3

90° ELBOW TO 90° ELBOW FITTING

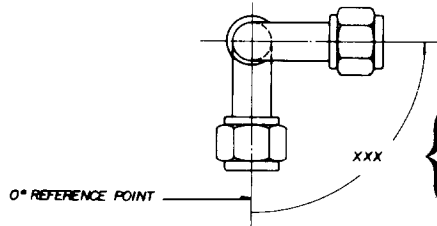
ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

302003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)

SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNINATION

_____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"
DASH SIZE	-4	-6	-8	-10	-12	-16
LETTER CODE	F	H	J	K	L	M

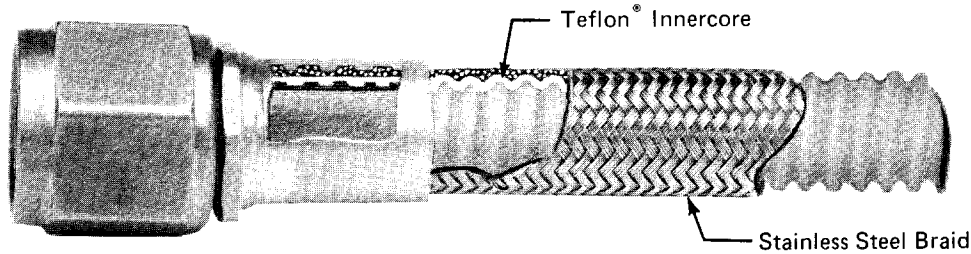
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
D = Aluminum
M = Monel QQ-N-281
P = Copper Nickel

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
302000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				302006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
302001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				302007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
302002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				302008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
302003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				302009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
302004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				302010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
302005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				302011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
HOSE ASSEMBLIES
(CONDUCTIVE LINER)
 Bulletin PEB-13



APPLICATIONS AND ENGINEERING INFORMATION

Low pressure hose assemblies where flexibility and low weight are important for marine, aerospace and aircraft applications. Especially applicable for coolants with a low surface tension. The Teflon® innercore is conductive. If a non conductive innercore is required see PEB-8. For a higher pressure conductive hose, the hose part number is 306.

WORKING PRESSURE: 200 psi (14 BAR)

TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (conductive)

REINFORCEMENT: Corrosion resistant stainless steel wire braid (Type 300)

FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies meet requirements of P.S. 1035 for marine applications. Also meet requirements and tested to specifications P.S. 1046 and Rockwell LE 271-0045 for manned aircraft.

SPECIAL DESIGN

Preece Inc. has designed and fabricated many complex configurations and flange end fittings for marine, aerospace and aircraft industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
303-4	.29	7.4	.46	11.7	1.3	33.0	200	14	800	56	.09	.13
303-6	.38	9.7	.58	14.7	2.3	58.4	200	14	800	56	.12	.18
303-8	.53	13.5	.82	20.8	2.9	73.7	200	14	800	56	.22	.33
303-12	.79	20.1	1.08	27.4	3.0	76.2	200	14	800	56	.32	.48
303-16	1.05	26.7	1.34	34.0	4.5	114.3	200	14	800	56	.44	.65
303-20	1.26	32.0	1.58	40.1	6.0	152.4	200	14	800	56	.55	.82
303-24	1.52	38.6	1.80	45.7	7.0	177.8	200	14	800	56	.66	.98
303-32	2.00	50.8	2.35	59.7	9.0	228.6	200	14	800	56	.78	1.16
303-48	3.05	77.5	3.50	88.9	15.0	381.0	200	14	800	56	1.80	2.67
303-64	4.05	102.9	4.50	114.3	24.0	609.6	200	14	800	56	2.30	3.42

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

303000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

303007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 3

90° ELBOW TO 90° ELBOW FITTING

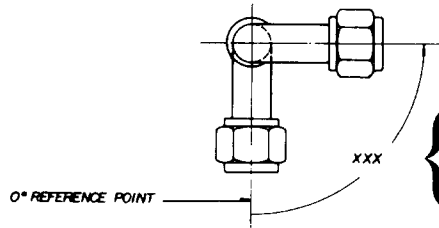
ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

303003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)

SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION

_____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
DASH SIZE	-4	-6	-8	-10	-12	-16	-20	-24	-32	-48	-64
LETTER CODE	F	H	J	K	L	M	N	P	R	U	W

FITTING MATERIAL DESIGNATION

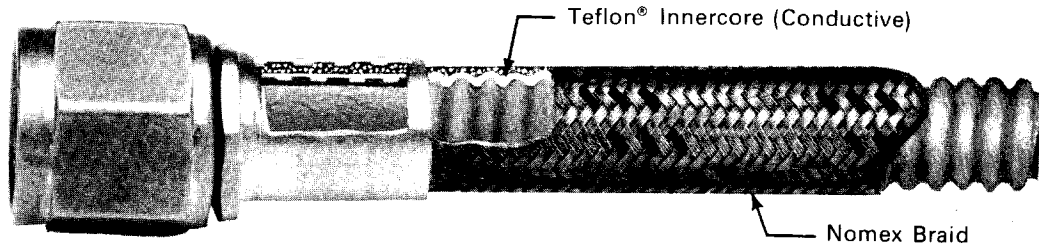
C = Stainless (CRES 304)
 A = Stainless (CRES 316)
 D = Aluminum
 M = Monel QO-N-281
 P = Copper Nickel

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
303000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				303000	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
303001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				303007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
303002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				303008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
303003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				303009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
303004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				303010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
303005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				303011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
 HOSE ASSEMBLIES
 CONDUCTIVE LINER
 Bulletin PEB-26



APPLICATIONS AND ENGINEERING INFORMATION

Low pressure hose assemblies where flexibility and low weight are important in marine, aerospace and aircraft applications. Especially designed for coolants with a low surface tension. The liner is a conductive Teflon®. For engineering information consult our plant.

If a non conductive convoluted Teflon® liner with a non metallic braid reinforcement is desired, see Bulletin PEB-9. If a conductive liner is required the hose part number is 305.

WORKING PRESSURE: 200 psi and 175 psi (14 BAR and 12 BAR)

TEMPERATURE RANGE: -65° to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (conductive)

REINFORCEMENT: Nomex

FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies with CRES Braid meet requirements of P.S. 1035 for maine applications and meet requirements and tested to specifications P.S. 1046 and Rockwell LE 217-0045 for manned aircraft.

SPECIAL DESIGN

Preece Inc. has designed and fabricated many complex configurations and flange end fittings for marine, aerospace and aircraft industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
307-4	.29	7.4	.46	11.7	.50	12.7	200	14	800	56	.05	.07
307-6	.38	9.7	.58	14.7	.80	20.4	200	14	800	56	.06	.09
307-8	.53	13.5	.82	20.8	1.25	31.9	200	14	800	56	.12	.18
307-10	.62	15.7	.86	21.8	1.50	38.3	175	12	700	48	.14	.21
307-12	.79	20.1	1.08	27.4	2.00	51.0	175	12	700	48	.19	.28
307-16	1.05	26.7	1.34	34.0	3.00	76.2	175	12	700	48	.25	.37

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

307000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

307007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS

SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 3

90° ELBOW TO 90° ELBOW FITTING

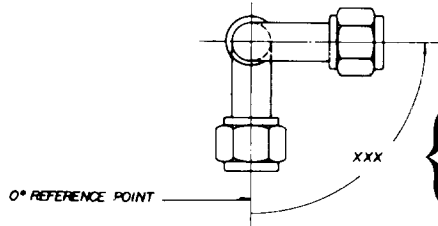
ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

307003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)

SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION

_____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"
DASH SIZE	-4	-6	-8	-10	-12	-16
LETTER CODE	F	H	J	K	L	M

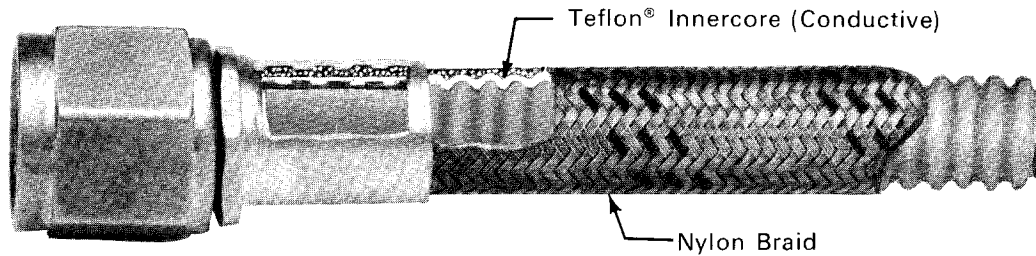
FITTING MATERIAL DESIGNATION	
C	= Stainless (CRES 304)
A	= Stainless (CRES 316)
D	= Aluminum
M	= Monel QQ-N-281 QQ-N-286
P	= Copper Nickel

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
307000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				307006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
307001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				307007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
307002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				307008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
307003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				307009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
307004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				307010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
307005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				307011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
 HOSE ASSEMBLIES
 CONDUCTIVE LINER
 Bulletin PEB-21



APPLICATIONS AND ENGINEERING INFORMATION

Low pressure hose assemblies where flexibility and low weight are important in marine, aerospace and aircraft applications. Especially designed for coolants with a low surface tension. The liner is a conductive Teflon®. For engineering information consult our plant.

If a conductive convoluted Teflon® liner with a metallic braid reinforcement is desired, see Bulletin PEB-13.

WORKING PRESSURE: 200 and 175 psi (14 and 12 BAR)

TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (conductive)

REINFORCEMENT: Nylon

FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies with CRES Braid meet requirements of P.S. 1035 for marine applications and meet requirements and tested to specifications P.S. 1046 and Rockwell LE 271-0045 for manned aircraft.

SPECIAL DESIGN

Preece Inc. has designed and fabricated many complex configurations and flange end fittings for marine, aerospace and aircraft industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		BURST PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
305-4	.29	7.4	.46	11.7	.50	12.7	200	14	800	56	.05	.07
305-6	.38	9.7	.58	14.7	.80	20.4	200	14	800	56	.06	.09
305-8	.53	13.5	.72	18.2	1.25	31.9	200	14	800	56	.12	.18
305-10	.62	15.7	.86	21.8	1.50	38.3	175	12	700	48	.14	.21
305-12	.79	20.1	1.08	27.4	2.00	51.0	175	12	700	48	.19	.28
305-16	1.05	26.7	1.34	34.0	3.00	76.2	175	12	700	48	.25	.37

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

305000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 5/8" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

305007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

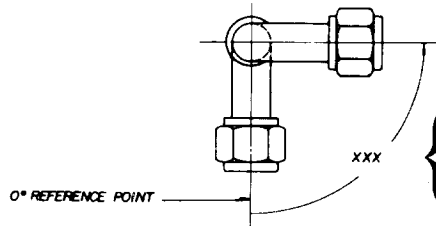
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

305003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION
 ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"
DASH SIZE	-4	-6	-8	-10	-12	-16
LETTER CODE	F	H	J	K	L	M

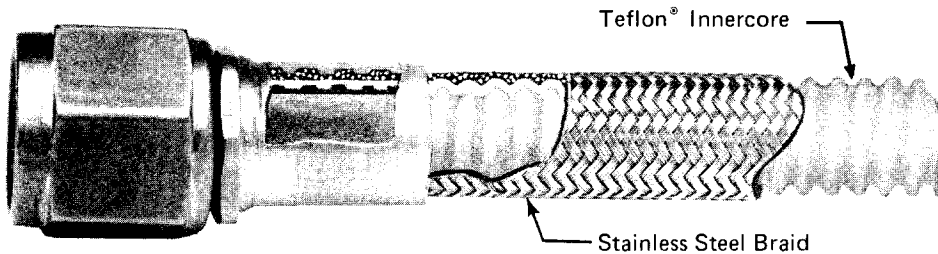
FITTING MATERIAL DESIGNATION
C = Stainless (CRES 304)
A = Stainless (CRES 316)
D = Aluminum
M = Monel
P = Copper Nickel

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B
	FITTING A	FITTING B				FITTING A	FITTING B		
305000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
305001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
305002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
305003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
305004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
305005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		305011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	



PREECE INC.
ENGINEERING
BULLETIN

CONVOLUTED TEFLON®
 HOSE ASSEMBLIES
 NON-CONDUCTIVE
 Bulletin PEB-22



APPLICATIONS AND ENGINEERING INFORMATION

Hose assemblies where flexibility and low weight are important in marine, aerospace and aircraft applications. Especially designed for coolants with a low surface tension. The liner is a non conductive Teflon® (no additives). For engineering information consult our plant.

WORKING PRESSURE: 200 psi (14 BAR) thru 640 psi (88 BAR)

TEMPERATURE RANGE: -65°F to +400°F (-54°C to +204°C)

CONSTRUCTION

INNERCORE: Teflon® convoluted liner (non conductive)

REINFORCEMENT: Corrosion resistant stainless steel wire braid (Type 300)

FITTINGS: Permanently attached. CRES 300 or customer specified material. Elbows are manufactured with smooth turns to minimize pressure drop.

MILITARY SPECIFICATIONS

Assemblies meet requirements of P.S. 1035 for marine applications. Also meet requirements and tested to specifications P.S. 1046 and Rockwell LE 271-0045 for manned aircraft with the exception of the conductivity requirement.

SPECIAL DESIGN

Preece Inc. has designed and fabricated many complex configurations and flange end fittings for marine, aerospace and aircraft industries. For special requirements please contact the plant.

DIMENSIONS AND PRESSURE RATINGS

HOSE PART NUMBER	I.D. NOMINAL		O.D. NOMINAL		BEND RADIUS		WORKING PRESSURE		PROOF PRESSURE		WEIGHT	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/FT	Kg/M
304-4	.29	7.4	.46	11.7	1.3	33.0	640	44	1280	88	.09	.13
304-6	.38	9.7	.58	14.7	2.3	58.4	640	44	1280	88	.12	.18
304-8	.53	13.5	.82	20.8	2.9	73.7	640	44	1280	88	.22	.33
304-12	.79	20.1	1.08	27.4	3.0	76.2	640	44	1280	88	.32	.48
304-16	1.05	26.7	1.34	34.0	4.5	114.3	640	44	1280	88	.44	.65
304-20	1.26	32.0	1.58	40.1	6.0	152.4	640	44	1280	88	.55	.82
304-24	1.52	38.6	1.80	45.7	7.0	177.8	640	44	1280	88	.66	.98
304-32	2.00	50.8	2.35	59.7	9.0	228.6	200	14	800	56	.78	1.16
304-48	3.05	77.5	3.50	88.9	15.0	381.0	200	14	800	56	1.80	2.67
304-64	4.05	102.9	4.50	114.3	24.0	609.6	200	14	800	56	2.30	3.42

HOSE ASSEMBLY NUMBERING SYSTEM

Example 1

STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

304000 8C 0145

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 14 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/2" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

Example 2

STRAIGHT TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOW FITTING ONE END AND STRAIGHT FITTING ONE END USE DASH SIZE DESIGNATION.

304007 4D 0134

BASIC ASSEMBLY NO. _____ ASSEMBLY LENGTH 13 1/2" LAST DIGIT IN 1/8 INCH INCREMENTS
 SIZE (1/4" OD Tube Size) _____ FITTING MATERIAL DESIGNATION

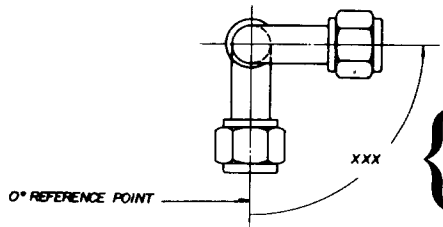
Example 3

90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

304003 F 0173 C 090

BASIC ASSEMBLY NO. _____ ANGULAR ROTATION IN DEGREES (MEASURED COUNTER CLOCKWISE)
 SIZE (1/4" Tube Size) _____ FITTING MATERIAL DESIGNATION
 _____ ASSEMBLY LENGTH 17 3/8" LAST DIGIT IN 1/8 INCH INCREMENTS



ANGULAR ROTATION IN DEGREES MEASURED COUNTERCLOCKWISE WHEN USING ELBOW CONFIGURATIONS ON BOTH ENDS

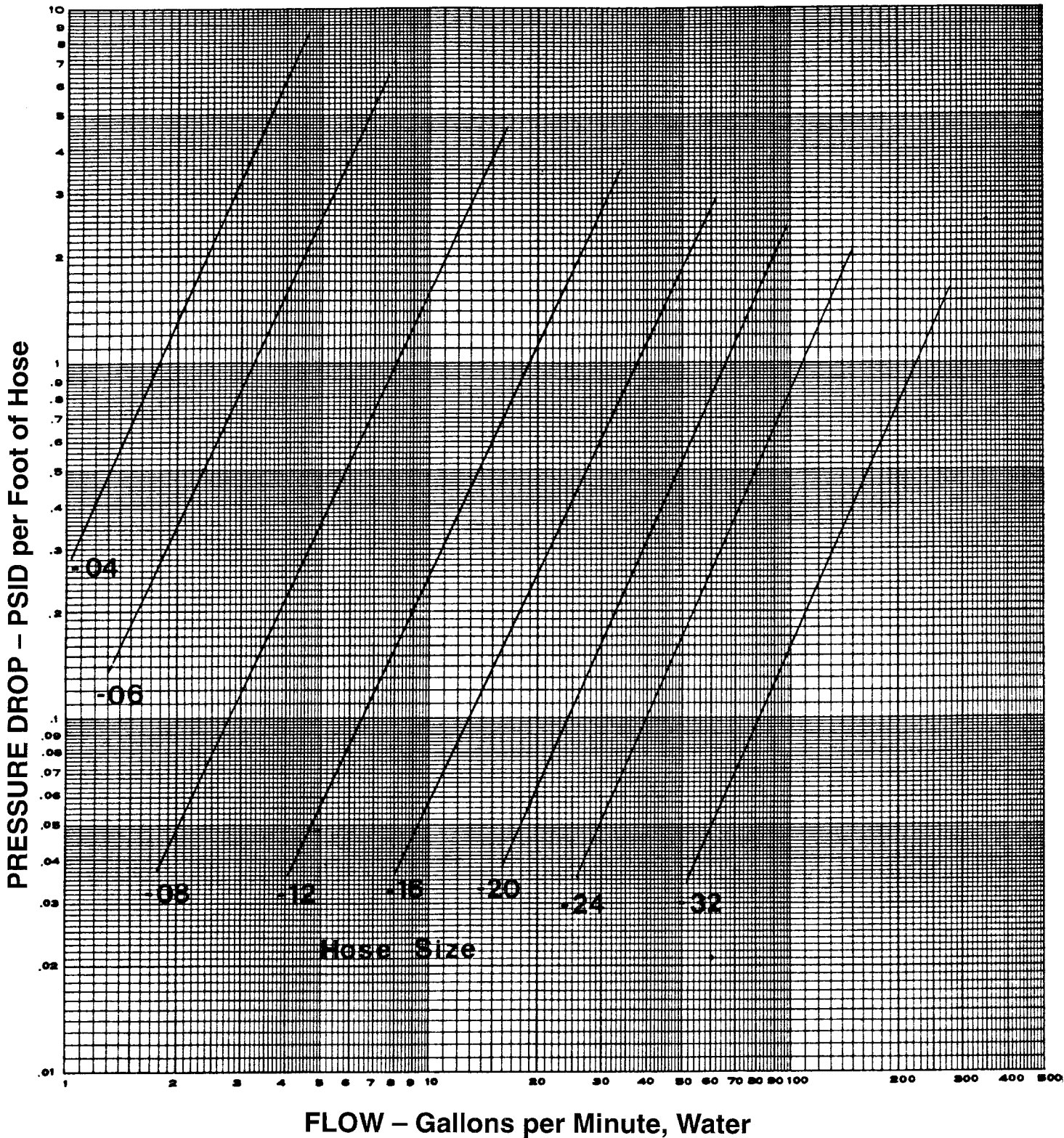
TUBE SIZE (O.D.)	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
DASH SIZE	-4	-6	-8	-10	-12	-16	-20	-24	-32	-48	-64
LETTER CODE	F	H	J	K	L	M	N	P	R	U	Y

FITTING MATERIAL DESIGNATION	
C	= Stainless (CRES 304)
A	= Stainless (CRES 316)
D	= Aluminum

BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B
	FITTING A	FITTING B				FITTING A	FITTING B		
304000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION	ASSEMBLY LENGTH		304006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION	ASSEMBLY LENGTH	
304001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION			304007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION		
304002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			304008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION		
304003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION			304009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION		
304004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			304010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION		
304005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION			304011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION		

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PRESSURE DROP vs FLOW



PREECE, INC.
ENGINEERING
BULLETIN

SIZE

A

CODE IDENT NO

21392

DOCUMENT NO. PEB - 4
Pressure Drop for
Convuluted Teflon Hose

REV LTR

SHEET 1 OF 1



REVISIONS

DESCRIPTION

DATE

APPROVED

LTR SEE SHT 1

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TABLE A

HOSE SIZE	I.D. MIN. (IN)	O.D. MAX. (IN)	BEND RADIUS (IN)	WORKING PRESSURE (PSI)	BURST PRESSURE (PSI) (@ 70 °F)	HOSE WEIGHT (LBS/FT)
-04	.212	.465	3	3,000	16,000	.144
-06	.298	.595	5	3,000	14,000	.336
-08	.391	.735	5.75	3,000	14,000	.480
-10	.485	.935	6.50	3,000	12,000	.744
-12	.602	1.090	7.75	3,000	12,000	1.032
-16	.852	1.410	9.63	3,000	12,000	1.680

TABLE B

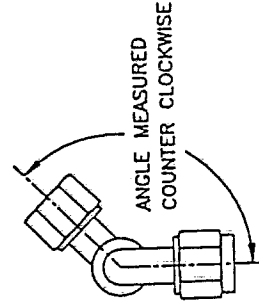
LETTER CODE	ILLUSTRATION	DESCRIPTION	LETTER CODE	ILLUSTRATION	DESCRIPTION
A		AN STRAIGHT, MATES MS33656	E		MS FLARELESS STRAIGHT, MATES MS33514
B		90° ELBOW, MATES MS33656	F		90° ELBOW, MATES MS33514
C		45° ELBOW, MATES MS33656	G		45° ELBOW, MATES MS33514
D		MALE PIPE THREAD	H		FEMALE PIPE THREAD

TABLE D

DASH NUMBER	STRAIGHT THREAD	PIPE THREAD
04	7/16-20	1/8 NPT
05	1/2-20	1/4 NPT
06	9/16-18	3/8 NPT
08	3/4-16	1/2 NPT
10	7/8-14	3/4 NPT
12	1-1/16-12	1 NPT
16	1-5/16-12	1-1/4 NPT
20	1-5/8-12	1-1/2 NPT

TABLE C

NUMBER CODE	MATERIAL
-1	304 CRES
-2	316 CRES
-3	ALUMINUM
-4	BRASS
-5	MONEL
-6	INCONEL
-7	TITANIUM



DETAIL A

WORKING COPY

SHEET	CODE SHEET NO.	REV. NO.	REV LTR
B	21392	7240	N/C
SCALE	1/2"	RISE DATE	SHEET 2 OF 2

MASTER

