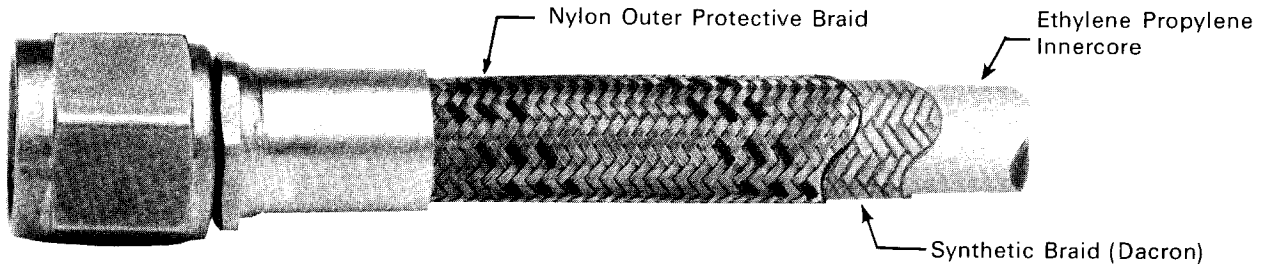




**PREECE INC.**  
**ENGINEERING**  
**BULLETIN**

ETHYLENE PROPYLENE  
 HOSE ASSEMBLIES  
 LOW PRESSURE  
 (CONDUCTIVE LINER)

Bulletin PEB-10



**APPLICATIONS AND ENGINEERING INFORMATION**

**WORKING PRESSURE:** Normal operating pressure 250-600 psi (17-41 Bar). May be used at higher pressures if there are no surges.

**TEMPERATURE RANGE:** -65°F to +250°F (-54°C to +121°C)

**APPLICATIONS:** Hydraulic and coolant applications where flexibility and a small bend radius is required. Excellent in applications where corrosion is a problem. If a non conductive liner is required see drawing 6246.

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

**CONSTRUCTION**

**INNERCORE:** Extruded Ethylene Propylene (conductive).

**REINFORCEMENT:** Nylon scuff guard braid with dacron braid reinforcement.

**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.

**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 (REF)	
	Inches	MM	inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
200-4	.240	6.1	.47	11.9	.50	12.7	600	41	2400	166	.04	.06
200-6	.335	8.5	.55	14.0	.75	19.1	600	41	2400	166	.06	.09
200-8	.430	10.9	.67	17.0	1.50	38.1	550	38	2200	151	.10	.15
200-10	.500	12.7	.85	21.6	1.75	44.5	500	35	2000	138	.13	.19
200-12	.650	16.5	1.00	25.4	2.25	57.2	500	35	2000	138	.16	.24
200-16	1.000	25.4	1.50	38.1	3.00	76.2	450	31	1800	124	.25	.37
200-20	1.200	30.5	2.00	50.8	4.25	107.95	250	17	1000	69	.38	.57

# HOSE ASSEMBLY NUMBERING SYSTEM

## Example 1

### STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

**200000 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.

**200007 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

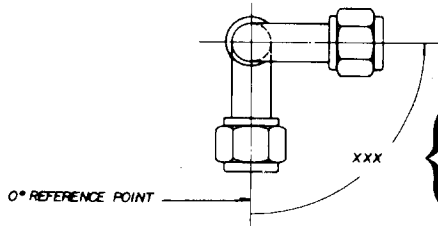
## Example 3

### 90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

**200003 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"
DASH SIZE	-4	-6	-8	-10	-12	-16	-20
LETTER CODE	F	H	J	K	L	M	N

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

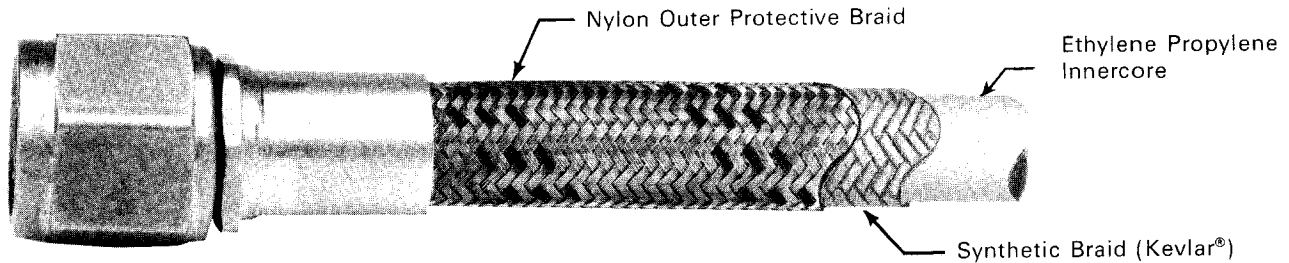
BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH	BASIC HOSE ASSEMBLY PART NO.	DESCRIPTION		FITTING A	FITTING B	ASSEMBLY LENGTH
	FITTING A	FITTING B					FITTING A	FITTING B			
200000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				200006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
200001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				200007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
200002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				200008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
200003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				200009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
200004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				200010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
200005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				200011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			



**PREECE INC.**  
**ENGINEERING**  
**BULLETIN**

**ETHYLENE PROPYLENE**  
**HOSE ASSEMBLIES**  
**MEDIUM PRESSURE**  
**(CONDUCTIVE LINER)**

Bulletin PEB-11



**APPLICATIONS AND ENGINEERING INFORMATION**

**WORKING PRESSURE:** Normal operating pressure 1500-3000 psi (104-207 Bar). May be used at higher pressures if there are no surges.

**TEMPERATURE RANGE:** -65°F to +250°F (-54°C to +121°C)

**APPLICATIONS:** Hydraulic and applications where a conductive liner is desirable.

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

**CONSTRUCTION**

**INNERCORE:** Extruded Ethylene Propylene liner (conductive).

**REINFORCEMENT:** Nylon scuff guard

**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.

**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 (REF)	
	Inches	MM	Inches	MM	Inches	MM	PSI	Bar	PSI	Bar	Lbs/Ft	Kg/M
201-4	.240	6.1	.49	12.4	.60	15.2	3000	207	12,000	828	.05	.07
201-6	.335	8.5	.57	14.5	.85	21.6	3000	207	12,000	828	.07	.10
201-8	.430	10.0	.70	17.8	1.50	38.1	3000	207	12,000	828	.12	.18
201-10	.500	12.7	.92	23.4	1.75	44.5	3000	207	12,000	828	.19	.28
201-12	.650	16.5	1.15	29.2	2.50	63.5	2000	138	8000	552	.24	.36
201-16	1.000	25.4	1.65	41.9	3.50	88.9	1500	103	6000	414	.36	.54

# HOSE ASSEMBLY NUMBERING SYSTEM

## Example 1

### STRAIGHT TO STRAIGHT FITTING

ASSEMBLIES WITH STRAIGHT FITTINGS EACH END USE DASH SIZE DESIGNATION.

**201000 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.

**201007 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

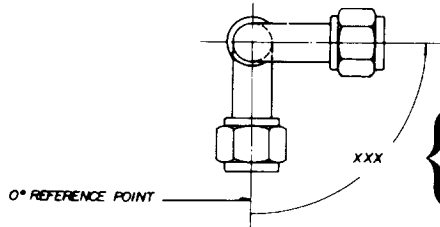
## Example 3

### 90° ELBOW TO 90° ELBOW FITTING

ASSEMBLIES WITH ELBOWS EACH END USE LETTER CODE FOR SIZE DESIGNATION

**201003 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
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			
201000	STRAIGHT SWIVEL, AN CONNECTION	STRAIGHT SWIVEL, AN CONNECTION				201006	STRAIGHT SWIVEL, FLARELESS CONNECTION	STRAIGHT SWIVEL, FLARELESS CONNECTION			
201001	STRAIGHT SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				201007	STRAIGHT SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
201002	STRAIGHT SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				201008	STRAIGHT SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
201003	90° SWIVEL, AN CONNECTION	90° SWIVEL, AN CONNECTION				201009	90° SWIVEL, FLARELESS CONNECTION	90° SWIVEL, FLARELESS CONNECTION			
201004	45° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				201010	45° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			
201005	90° SWIVEL, AN CONNECTION	45° SWIVEL, AN CONNECTION				201011	90° SWIVEL, FLARELESS CONNECTION	45° SWIVEL, FLARELESS CONNECTION			