

Model 11GM Pneumatic Gauge Pressure Transmitter Styles C and D

Model Code

<u>Description</u>	<u>Model</u>
Pneumatic Gauge Pressure Transmitter	11GM
<u>Capsule Code and Span Limits</u>	
0.07 and 0.56 MPa (10 and 80 psi, 0.7 and 5.6 bar or kg/cm ²)	-A
0.14 and 1.4 MPa (20 and 200 psi, 1.4 and 14 bar or kg/cm ²)	-B
0.3 and 2.8 MPa (40 and 400 psi, 3 and 28 bar or kg/cm ²)	-C
0.7 and 7 MPa (100 and 1000 psi, 7 and 70 bar or kg/cm ²)	-D
1.4 and 14 MPa (200 and 2000 psi, 14 and 140 bar or kg/cm ²)	-E
<u>Capsule Material</u>	
316 ss	S
Monel (Not available with Span Limits Code A)	M
Monel Element with 316 ss Connection Block (Not available with Span Limits Code A)	D
<u>Process Connection</u>	
Tapped for 1/4 NPT	1
Tapped for 1/2 NPT	2
Tapped for R 1/4	3
Tapped for R 1/2	4
Machined for 9/16-18 Aminco fitting (Not available with Span Limits Code A)	5
<u>Optional Selections</u>	
Elevated Zero Range Kit	-L
Suppressed Zero Range Kit	-R
Example: 11GM-BM2-R	

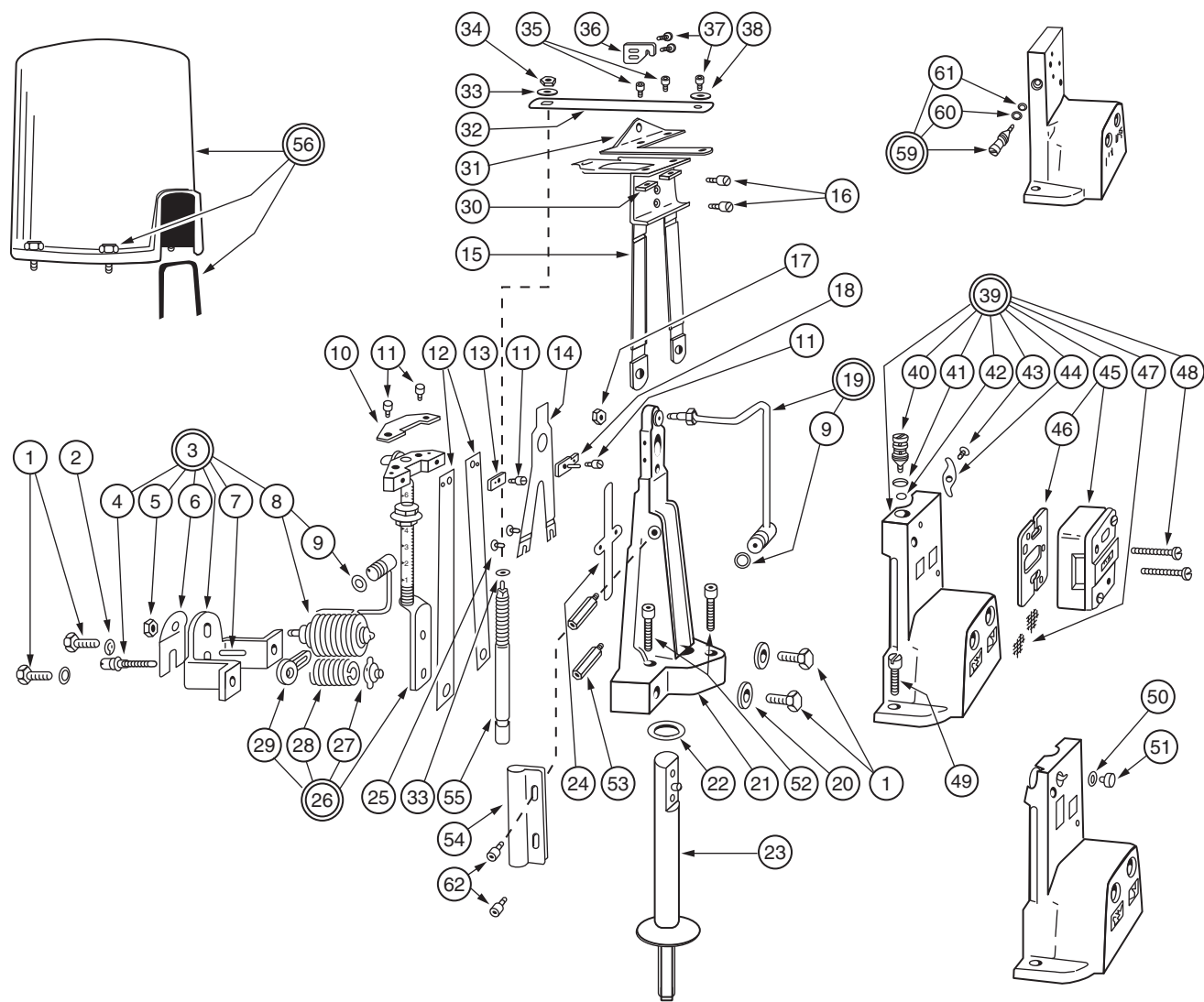
Give instrument Model Code when ordering.

*Parts preceded by an asterisk are recommended spare parts.
See Recommended Spare Parts Summary section for quantities.

TO ORDER PARTS, CALL 1-866-746-6477.

Parts

Figure 1. Cover Assembly, Force Balance Unit Assembly, and Relay Assembly



Force Balance Unit Assembly

Part No.	Description
N0148EG	Force Balance Unit Assembly, 20 to 100 kPa, 3 to 15 psi, or 0.2 to 1.0 or kg/cm ²
N0148EH	Force Balance Unit Assembly, 3 to 27 psi

Table 1. Parts for Figure 1

Item	Part No.	Qty.	Part Name
1	U0102LN	4	Screw, Hex H., 0.250-28 x 0.500
2	0048219	2	Lockwasher
3	Below	1	Bracket Assembly
	U0119TA		For N0148EG
	U0119TF		For N0148EH
4	U0102FY	1	Screw
5	0017611	1	Nut, 0.190-32
6	U0102FZ	1	Spring
7	U0102NA	1	Pin
8	Below	1	Bellows Assembly
	U0119TC		Used with Force Balance Assembly P.N. N0148EG
	U0119TG		Used with Force Balance Assembly P.N. N0148EH
*9	D0123MZ	2	O-ring, 4.5 mm (0.18 in) ID
10	U0102KP	1	Plate
11	X0153ZC	4	Screw, Hex H., 0.138-32 x 0.187
12	U0102KL	2	Flexure
13	U0102LP	1	Plate
14	N0999MH	1	Flapper
15	N0999FM	1	Flexure Assembly
16	X0100ML	2	Screw, Socket H., 0.164-32 x 0.250
17	X0104EB	1	Nut, 0.190-32
18	U0102TE	1	Bracket Assembly
*19	U0119TB	1	Nozzle Assembly
20	X0166MX	2	Washer
21	N0999ML	1	Base
22	N0143XN	1	O-ring, 15.6 mm (0.61 in) ID
23	N0148EB	1	Force Bar Assembly
24	N0142NY	1	Spacer
25	0023442	2	Screw, Fil H., 0.099-48 x 0.187
26	Below	1	Vernier Range Bar Assembly
	N0999QA		Used with Force Balance Assembly P.N. N0148EG
	N0999MP		Used with Force Balance Assembly P.N. N0148EH
27	U0102KR	1	Spring Holder
28	Below	1	Spring
	N0999MG		Used with Force Balance Assembly P.N. N0148EG
	N0999MC		Used with Force Balance Assembly P.N. N0148EH
29	U0102KC	1	Spring Holder
30	N0138BS	2	Plate
31	U0117BN	1	Bracket
32	U0114BP	1	Flexure
33	0029423	2	Washer
34	X0104BR	1	Nut, 0.099-48
35	A0100YC	2	Screw, Socket H., 0.138-32 x 0.250
36	U0117AR	1	Stop
37	X0116PB	3	Screw, Socket H., 0.125-40 x 0.187
38	0013335	1	Washer
39	D0124QJ	1	Relay Mounting Assembly, 1/4 NPT, gray

Table 1. Parts for Figure 1 (Continued)

Item	Part No.	Qty.	Part Name
40	D0124QP	1	Orifice Screw Assembly (since Sept. 1977)
*41	D0123MZ	1	O-ring, 4.5 mm (0.18 in) ID
*42	A037744	1	O-ring, 2.9 mm (0.11 in) ID
43	X0100AA	1	Screw, Fil H., 0.138-32 x 0.218
44	U0102MF	1	Clamp
*45	C0136HZ	1	Relay Replacement Kit
*46	C0100EM	1	Gasket
*47	U0103FP	2	Screen
48	X0116CS	2	Screw, Pan H., 0.190-32 x 1.000 with washer
49	0006535	2	Screw, Fil H., 0.190-32 x 0.750 with lockwasher
50	A037744	1	O-ring (Used Jan. 1974 to Sept. 1977)
51	D0124JG	1	Restrictor (Used Jan. 1974 to Sept. 1977)
52	X0172NJ	3	Screw, Socket H., 0.250-28 x 0.750
53	N0148CC	2	Column
54	N0148CD	1	Clamp
55	N0119EK	1	Dashpot
56	B1277PM	1	Cover Assembly (includes screws and gasket)
*59	C0130EF	1	Screw Assembly (prior to Jan. 1974)
*60	D0123MZ	1	O-ring, 4.5 mm (0.18 in) ID
*61	A037744	1	O-ring, 2.9 mm (0.11 in) ID
62	X0116ET	2	Screw, Socket H., 0.125-40 x 0.250

Table 2. Ermeto Connectors

Size	316	Carbon Steel	Brass
1/4 NPT x 6 mm	U7002AS	U7002AT	U7002AU
1/2 NPT x 12 mm	U7002AP	U7002AR	—

Table 3. Output Signal Test Tee

Part No.	Qty.	Part Name
D6002BK	2	Nipple
D6002BL	1	Valve
Q0101NE	1	Plug
0040508	1	Tee
96000BL	1	Assembly Drawing

Figure 2. Mounting Plate, Body, and Connection Block Assemblies

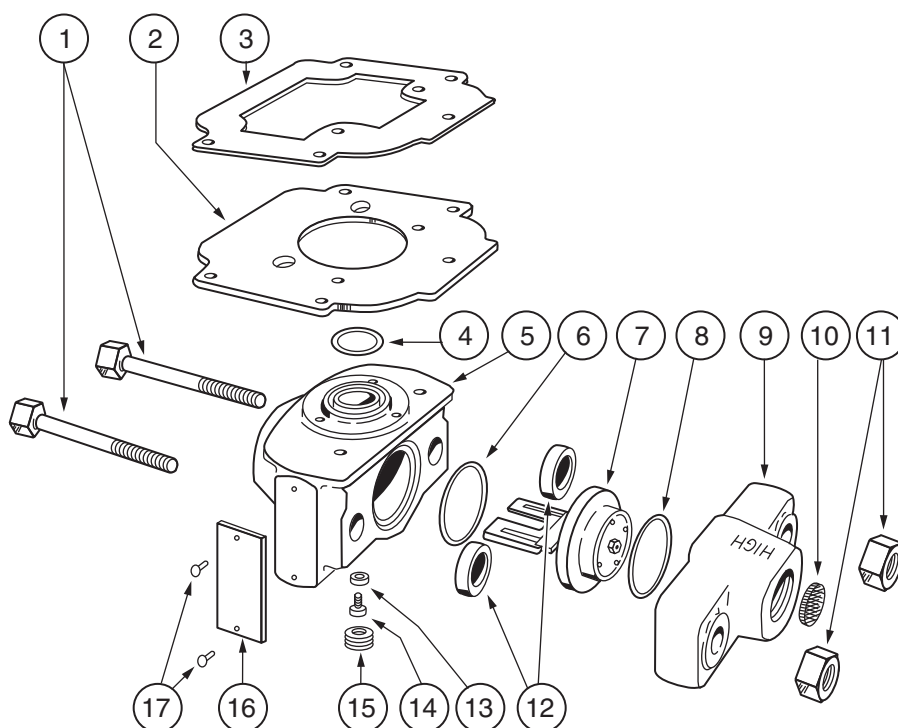


Table 4. Parts for Figure 2

Item	Part No.	Qty.	Part Name
1	X0118CN	2	Screw, Hex H., 0.437-20 x 3.250, Zinc-plated
2	D0129JA	1	Plate
3	U0102ML	1	Gasket
*4	Below	1	O-ring
	U0102MY		Silicone (standard)
	U0102TK		Viton A (Monel capsules)
	U0102XE		ptfe (cleaned for oxygen service)
5	Below	1	Body (316 ss)
	P0120YG		Standard
	P0120YJ		Reverse Range
*6	Below	1	O-ring
	P0120EW		Silicone (standard)
	P0120PR		ptfe
	X0145MH		Viton A (Monel capsules)
	A0127EM		ptfe (cleaned for oxygen service)
7	Table 5	1	Capsule Assembly (see Table 5 below)
*8	Below	1	O-ring
	P0120ML		Silicone, A Capsule (standard)
	P0120FS		Silicone, B-E Capsules (standard)
	P0120PS		ptfe, B-E Capsules
	A0129AS		ptfe, A Capsule (cleaned for oxygen service)
	A0127EL		ptfe, B-E Capsules (cleaned for oxygen service)
	X0145MJ		Viton A, A Capsule
	X0145ME		Viton A, B-E Capsules (Monel capsules)

Table 4. Parts for Figure 2 (Continued)

Item	Part No.	Qty.	Part Name
9	Table 6	1	Cover Connection (see Table 6 below)
*10	Below	1	Screen
	U0118EP		316 ss for 1/4 NPT or R 1/4 connection
	D0125AC		Monel for 1/4 NPT or R 1/4 connection
	B0116BP		316 ss for 1/2 NPT or R 1/2 connection
	D0125AE		Monel for 1/2 NPT or R 1/2 connection
11	Below	2	Nut, 0.437-20
	X0104FK		Cadmium-plated steel (standard)
	X0118AS		17-4 PH stainless steel
12	P0121AC	2	Spacer (A Capsule only)
13	N0119SY	1	Washer
14	X0116LY	1	Screw, Socket H., 0.164-32 x 0.375
*15	B0102ZP	1	Strainer
16	B0126DY	1	Tag Plate (blank)
17	0046879	2	Screw, Tapping 0.086-32 x 0.125

Table 5. Capsule Assembly Item 7, Figure 2

Capsule Designation	Span			316 ss Standard Service	316 ss Oxygen Service	Monel (see Note)
	MPa	psi	bar or kg/cm ²			
A	0.07 to 0.56	10 to 80	0.7 to 5.6	P0121AJ	P0121EG	—
B	0.14 to 1.4	20 to 200	1.4 to 14	P0121AM	P0121EH	M0154ZH
C	0.3 to 2.8	40 to 400	3 to 28	P0121AP	P0121EJ	M0154ZJ
D	0.7 to 7	100 to 1000	7 to 70	P0121AR	P0121EK	M0154ZR
E	1.4 to 14	200 to 2000	14 to 140	P0121AT	P0121EL	M0154ZX

Table 6. Cover Connection; Item 9, Figure 2

Material	Capsule Designation	1/4 NPT	1/2 NPT	R 1/4	R 1/2	9/16-18 Aminco
316 ss	A	P0120MN	P0121AB	D6002BF	D6002BG	—
316 ss	B - E	P0121AD	P0121AF	D6002BD	D6002BE	P0121AH
Monel	B	P0121AE	P0121AG	D6002BH	D6002BJ	—

— NOTE —

Monel Capsules have metallic process wetted materials conforming to NACE Std. MR-01-75.

Figure 3. Zero Elevation

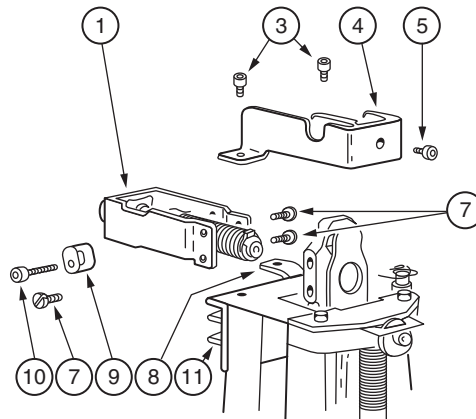


Table 7. Parts for Figure 3

Item	Part No.	Qty.	Part Name
–	N0138GG	–	Zero Elevation Kit
1	U0122BB	1	Spring Assembly (includes scale)
2	–	–	Item 2 intentionally not used
3	U0124EZ	2	Screw, Socket H., 0.138-32 x 0.312
4	N0138GB	1	Bracket
5	X0116PB	1	Screw, Socket H., 0.125-40 x 0.187
6	–	–	Item 6 intentionally not used
7	X0100ZB	3	Screw, Pan H., 0.125-40 x 0.156
8	U0114BM	1	Bracket
9	U0122BX	1	Stop
10	U0122BY	1	Screw, Socket H., 0.125-40 x 0.500
11	N0138BX	2	Plate

Figure 4. Zero Suppression

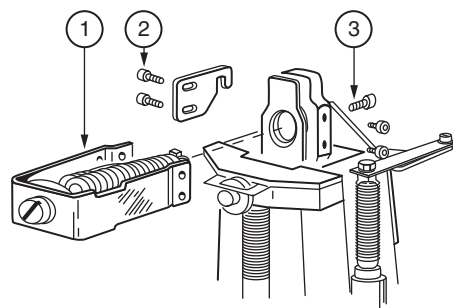


Table 8. Parts for Figure 4

Item	Part No.	Qty.	Part Name
—	U0122BN	—	Zero Suppression Kit
1	U0122BB	1	Spring Assembly (includes scale)
2	X0116ET	2	Screw, Socket H., 0.125-40 x 0.250
3	X0116PB	1	Screw, Socket H., 0.125-40 x 0.187

Figure 5. Integral Air Filter Set Using Adjustable Pressure Regulator

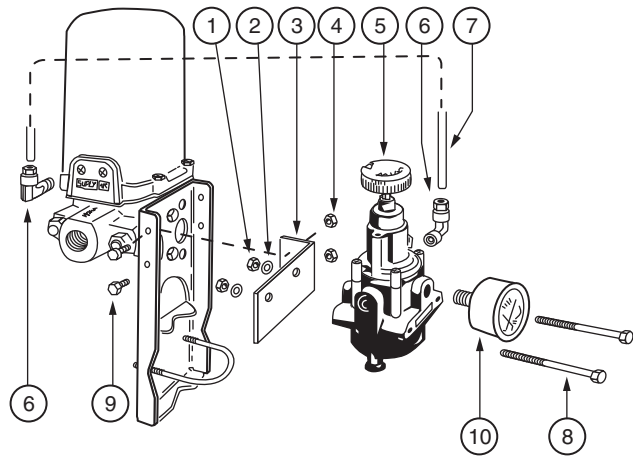


Table 9. Parts for Figure 5

Item	Part No.	Qty.	Part Name
–	Below	–	Air Filter Set
	B0155AE		With copper tube
	B0127YQ		With polyolefin-coated tube
1	0011962	2	Nut, 0.312-18
2	0025962	2	Lockwasher
3	B0155AK	1	Bracket
4	0012354	2	Nut, 0.250-20
5	B0123HE	1	Regulator
6	X0172BE	2	Elbow
7	Below	1	Tube
	B0155AF		Copper
	B0127YK		Polyolefin-coated
–	X0168FF	2	Shrinkable Tube (used at each end of polyolefin coated tube)
8	X0100KW	2	Screw, Hex H., 0.312-18 x 3.750
9	X0100AG	2	Screw, Hex H., 0.250-20 x 0.500

Table 10. Pressure Gauges (Used with above Air Filter Set)

Item	Part No.	Qty.	Part Name
10	Below	1	Pressure Gauge
	P0103YM		0 to 30 psi/0 to 2 bar
	P0121BL		0 to 200 kPa/0 to 2 kg/cm ²
10	P0122JD	1	Pressure Gauge (green band)

Figure 6. Integral Air Filter Set Using Fixed Pressure Regulator

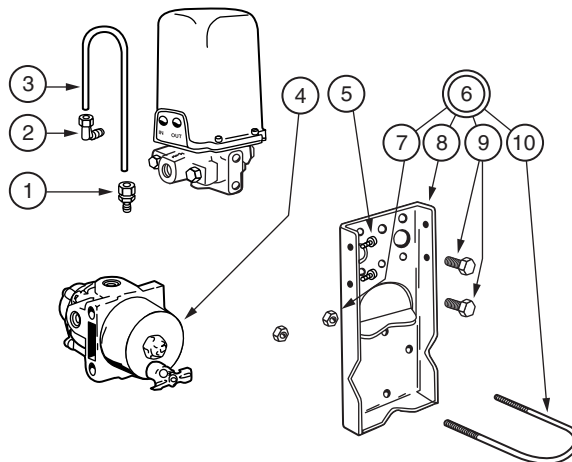


Table 11. Parts for Figure 6

Item	Part No.	Qty.	Part Name
–	Below	–	Air Filter Set (with copper tube)
	B0155AL		B-E Capsules
	A095513		A Capsule
–	Below	–	Air Filter Set (with polyolefin tube)
	B0127YR		B-E Capsules
	B0127ZC		A Capsule
1	B0100WB	1	Connector
2	X0172BE	1	Elbow
3	Below	1	Tube
	B0155AM		For B0155AL
	A095514		For A095513
	B0127YL		For B0127YR
	B0127YE		For B0127ZC
–	X0168FF	2	Shrinkable Tube (used at each end of polyolefin-coated tube)
4	B0123HD	1	Regulator
5	Below	–	Screw, Hex H., 0.250-20 x 0.500
	X0100AG	2	For B0155AL, B0127YR
	X0100AG	4	For A095513, B0127ZZ
–	A095515	1	Bracket (for A095513, B0127ZC)
–	0012354	2	Nut, 0.250-20 (for A095513, B0127ZC)

Table 12. Mounting Set

Item	Part No.	Qty.	Part Name
6	P0120NP	–	Mounting Set
7	0011962	2	Nut, 0.312-18
8	N0141ZW	1	Mounting Bracket
9	Below	2	Screw, Hex H., 0.375-24 x 0.625
	X0116FB		Plated Steel (standard)
	P0120RM		316 ss (optional)
10	D0114SM	1	U-bolt

RECOMMENDED SPARE PARTS SUMMARY

Recommended Spare Parts Summary

Figure	Item	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	9	D0123MZ	O-ring, 4.5 mm (0.18 in) ID	1	2	3
	19	U0119TB	Nozzle Assembly	1	1	2
	22	N0143XN	O-ring, 15.6 mm (0.61 in) ID	0	0	1
	40	D0124QP	Orifice Screw Assembly	1	2	3
	41	D0123MZ	O-ring, 4.5 mm (0.18 in) ID	1	2	3
	42	A037744	O-ring, 2.9 mm (0.11 in) ID	1	2	3
	45	C0136HZ	Relay Replacement Kit	1	1	2
	46	C0100EM	Gasket	1	2	4
Figure 2	47	U0103FP	Screen	2	4	8
	3	U0102ML	Gasket	0	1	2
	4	Below U0102MY U0102TK U0102XE	O-ring Silicone (standard) Viton A (Monel capsules) ptfe (cleaned for oxygen service)	0	1	2
	6	Below P0120EW P0120PR X0145MH A0127EM	O-ring Silicone (standard) ptfe Viton A (Monel capsules) ptfe (cleaned for oxygen service)	1	2	3
	7	Below P0121AJ P0121EG P0121AM P0121EH M0154ZH P0121AP P0121EJ M0154ZJ P0121AR P0121EK M0154ZR P0121AT P0121EL M0154ZX	Capsule Assembly 316 ss (standard service) A, Spans 10 to 80 psi 316 ss (oxygen service) A, Spans 10 to 80 psi 316 ss (standard service) B, Spans 20 to 200 psi 316 ss (oxygen service) B, Spans 20 to 200 psi Monel B, Spans 20 to 200 psi 316 ss (standard service) C, Spans 40 to 400 psi 316 ss (oxygen service) C, Spans 40 to 400 psi Monel C, Spans 40 to 400 psi 316 ss (standard service) D, Spans 100 to 1000 psi 316 ss (oxygen service) D, Spans 100 to 1000 psi Monel D, Spans 100 to 1000 psi 316 ss (standard service) E, Spans 200 to 2000 psi 316 ss (oxygen service) E, Spans 200 to 2000 psi Monel E, Spans 200 to 2000 psi	0	0	1
	8	Below P0120ML P0120FS P0120PS A0129AS A0127EL X0145MJ X0145ME	O-ring Silicone, A Capsule (standard) Silicone, B-E Capsules (standard) ptfe, B-E Capsules ptfe, A Capsule (cleaned for oxygen service) ptfe, B-E Capsules (cleaned for oxygen service) Viton A, A Capsule Viton A, B-E Capsules (Monel capsules)	1	2	3
	10	Below U0118EP B0116BP D0125AC D0125AE	Screen For 1/4 NPT or R 1/4 connections (316 ss) For 1/2 NPT or R 1/2 connections (316 ss) For 1/4 NPT or R 1/4 connections (Monel) For 1/2 NPT or R 1/2 connections (Monel)	1	2	6
	15	B0102ZP	Strainer	1	2	4

