

I/A Series[®] Electronic Pressure Transmitters

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IAP10-D, -F, -T Digital Absolute Pressure Transmitters

IGP10-D, -F, -T Digital Gauge Pressure Transmitters

and

IAP10-A and -V Analog Absolute Pressure Transmitters

IGP10-A and -V Analog Gauge Pressure Transmitters

—

Style A

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.

Model Code

Description					Model
I/A Series, Electronic, Direct Connected Absolute Pressure Transmitter					IAP10
I/A Series, Electronic, Direct Connected Gauge Pressure Transmitter (a)					IGP10
Electronics Versions and Output Signal					
Intelligent; Digital FoxCom™ and 4 to 20 mA dc, Configurable (Version -D)					-D
Intelligent; Digital FOUNDATION Fieldbus - FISCO Compliant (Version -F)					-F
Intelligent; Digital HART and 4 to 20 mA (Version -T)					-T
Analog; 4 to 20 mA ac, Explosionproof (Version -A)					-A
Analog; 1 to 5 V dc, Low Power (Version -V)					-V
Structure Code - Select from one of the following eight groups:					
1. Transmitter Only (no seals, or no sanitary or pulp/paper process connections)					
Process	Sensor		Fill Fluid	Connection Type	
Connection	Sensor	Fill Fluid	Connection Type		
316L ss	Co-Ni-Cr	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread		20
316L ss	Co-Ni-Cr	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread		21
316L ss	316L ss	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread		22
316L ss	316L ss	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread		23
316L ss	Nickel alloy (b)	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread		30
316L ss	Nickel alloy (b)	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread		31
2. Transmitter Prepared for Foxboro Model Coded Seals (c)					
Transmitter Prepared for Foxboro Direct Connect Seal; Silicone Fill in Sensor (d)					D1
Transmitter Prepared for Foxboro Direct Connect Seal; Inert Fill in Sensor (IGP10 only) (d)					D2
Transmitter Prepared for Foxboro Remote Mount Seal; Silicone Fill in Sensor (e)					S3
Transmitter Prepared for Foxboro Remote Mount Seal; Inert Fill in Sensor (IGP10 only) (e)					S4
3. Transmitters Prepared for non-Foxboro Seals					
Transmitter Prepared for Remote Seal; Silicone Fill in Sensor (f)					SC
Transmitter Prepared for Remote Seal; Inert Fill in Sensor (g)					SD
4. Transmitter with Sanitary Process Connections (h)					
Connection	Diaphragm	Fill	Process Connector	Mounting Parts/ Clamps/Gaskets	
Material	Material	Fluid	Process Connector	Mounting Parts/ Clamps/Gaskets	
316L ss	316L ss	NEOBEE M-20	1.5-in Tri-Clamp Type, Sanitary	By User	TA
316L ss	316L ss	NEOBEE M-20	2.0-in Tri-Clamp Type, Sanitary	By User	T2
316L ss	316L ss	NEOBEE M-20	3.0-in Tri-Clamp Type, Sanitary	By User	T3
316L ss	Nickel alloy (b)	NEOBEE M-20	1.5-in Tri-Clamp Type, Sanitary	By User	TB
316L ss	Nickel alloy (b)	NEOBEE M-20	2.0-in Tri-Clamp Type, Sanitary	By User	T4
316L ss	Nickel alloy (b)	NEOBEE M-20	3.0-in Tri-Clamp Type, Sanitary	By User	T5
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 1-in ext. (i)	By Foxboro	M1
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 6-in ext. (i)	By Foxboro	M6
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 9-in ext. (i)	By Foxboro	M9
5. Transmitter with Pulp and Paper Process Connections (h)					
Connection	Diaphragm	Fill	Connection Type	Mounting Parts/ Clamps/Gaskets	
Material	Material	Fluid	Connection Type	Mounting Parts/ Clamps/Gaskets	
316L ss	316L ss	Silicone	Sleeve Type, 1-inch nominal	By Foxboro	PA
316L ss	316L ss	Silicone	Threaded Type, 1-inch nominal	By Foxboro	PB
316L ss	316L ss	Silicone	Sleeve Type, 1 1/2-inch nominal	By Foxboro	PC
316L ss	316L ss	Silicone	Threaded Type, 1 1/2-inch nominal	By Foxboro	PD
316L ss	Nickel alloy (b)	Silicone	Sleeve Type, 1-inch nominal	By Foxboro	PE
316L ss	Nickel alloy (b)	Silicone	Threaded Type, 1-inch nominal	By Foxboro	PF
316L ss	Nickel alloy (b)	Silicone	Sleeve Type, 1 1/2-inch nominal	By Foxboro	PG
316L ss	Nickel alloy (b)	Silicone	Threaded Type, 1 1/2-inch nominal	By Foxboro	PH
316L ss	Nickel alloy (b)	Silicone	Threaded Type, 1 1/2-inch nominal (fits Ametek spud)	By Foxboro	PJ

MODEL CODE

Description				Model		
6. Flameproof Transmitter Only (no seals)						
Process	Sensor	Fill Fluid	Connection Type			
Connection	Sensor	Fill Fluid	Connection Type			
316L ss	316L ss	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread	52		
316L ss	316L ss	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread	53		
316L ss	Nickel alloy (b)	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread	60		
316L ss	Nickel alloy (b)	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread	61		
Nickel alloy (b)	Nickel alloy (b)	Silicone	1/2 NPT External Thread, 1/4 NPT Internal Thread	62		
Nickel alloy (b)	Nickel alloy (b)	Inert	1/2 NPT External Thread, 1/4 NPT Internal Thread	63		
7. Flameproof Transmitter Prepared for Foxboro Model Coded Seals (c)						
Flameproof Transmitter Prepared for Direct Connect Seal; Silicone Fill in Sensor (d)				D5		
Flameproof Transmitter Prepared for Direct Connect Seal; Inert Fill in Sensor (IGP10 only) (d)				D6		
Flameproof Transmitter Prepared for Remote Mount Seal; Silicone Fill in Sensor (e)				S5		
Flameproof Transmitter Prepared for Remote Mount Seal; Inert Fill in Sensor (IGP10 only) (e)				S6		
8. Flameproof Transmitter Prepared for non-Foxboro Seals						
Flameproof Transmitter Prepared for Remote Seal; Silicone Fill in Sensor (f)				SH		
Flameproof Transmitter Prepared for Remote Seal; Inert Fill in Sensor (g)				SJ		
Span Limits - Absolute or Gauge Pressure Units, as Applicable						
kPa	inH ₂ O	mbar				
0.87 and 50	3.5 and 200	8.7 and 500 (IGP10 only) (j)		B		
MPa	psi	bar or kg/cm ²				
0.007 and 0.21	1 and 30	0.07 and 2.1		C		
0.07 and 2.1	10 and 300	0.7 and 21		D		
0.7 and 21	100 and 3000	7 and 210 (k)		E		
14 and 42	2000 and 6000	140 and 420 (IGP10 only) (l)		F		
Conduit Connections and Housing Material						
1/2 NPT Connection, Aluminum Housing				1		
PG 13.5 Connection, Aluminum Housing (Available with Electrical Safety Codes E, D, M, and N only)				2		
1/2 NPT Connection, 316 ss Housing				3		
PG 13.5 Connection, 316 ss Housing (Available with Electrical Safety Codes E, D, M, and N only)				4		
M20 Connection, Aluminum Housing				5		
M20 Connection, 316 ss Housing				6		
Electrical Safety						
ATEX flameproof; II 2 GD, EEx d IIC, Zone 1 (all Electronic Versions) (m)				D		
ATEX intrinsically safe, II 1 GD, EEx ia IIC, Zone 0; or II 1/2 GD, EEx ib C, Zone 0/1 (Electronic Versions D and T only)				E		
ATEX FISCO intrinsically safe, II 1 G, EEx ia IIC, Zone 0; (Electronic Version F only)				E		
ATEX protection n, II 3 GD, EEx nL IIC, Zone 2 (Electronic Versions D and T only)				N		
ATEX FNICO protection n, II 3 G, EEx nL IIC, Zone 2 (Electronic Version F only)				N		
ATEX multiple certifications, ia and ib, and n. See ATEX Codes E and N for details (Electronic Versions D and T only) (n)				M		
ATEX multiple certifications, ia and ib, d, and n. See ATEX Codes D, E, and N for details (Electronic Versions D and T only) (m)				P		
CSA Certifications (see table below): (n)				C		
Description		Electronic Version				
		A	D	F	T	V
Intrinsically Safe, Division 1			X		X	X
FISCO Intrinsically Safe, Division 1				X		
Explosionproof, Division 1		X	X	X	X	X
Suitable for Class I, II, III; Division 2		X	X	X	X	X
Zone certified Ex ia IIC and Ex nA II				X	X	X
FNICO for Class I, II, III; Division 2				X		
CSA Certifications: (m)						
Flameproof, Ex d IIC, includes all certifications of Code C above.					B	

Description	Model					
CSA Certifications for IGP10 only (see table below): (j)						
Description	Electronic Version					
	A	D	F	T	V	
Intrinsically Safe, Division 1		X			X	
FISCO Intrinsically Safe, Division 1			X			
Explosionproof, Division 1 (*)	X	X	X	X	X	
Suitable for Class I, II, III; Division 2	X	X	X	X	X	
Zone certified Ex ia IIC and Ex nA II			X	X	X	
FNICO for Class I, II, III; Division 2			X			
(*) IGP explosionproof rating available with Span Limit Code E only.						
FM approvals (see table below): (n)						
Description	Electronic Version					
	A	D	F	T	V	
Intrinsically Safe, Division 1		X		X	X	
FISCO Intrinsically Safe, Division 1			X			
Explosionproof, Division 1	X	X	X	X	X	
Nonincendive, Class I, II, III; Division 2	X	X	X	X	X	
Zone approved AEx ia IIC and AEx nA II			X	X	X	
FNICO for Class I, II, III; Division 2			X			
FM approvals: (m) Flameproof, AEx d IIC, includes all approvals of Code F above.						
FM approvals for IGP10 only (see table below): (j)						
Description	Electronic Version					
	A	D	F	T	V	
Intrinsically Safe, Division 1		X			X	
FISCO Intrinsically Safe, Division 1			X			
Explosionproof, Division 1 (*)	X	X	X	X	X	
Nonincendive, Class I, II, III; Division 2	X	X	X	X	X	
Zone approved AEx ia IIC and AEx nA II			X	X	X	
FNICO for Class I, II, III; Division 2			X			
(*) IGP explosionproof rating available with Span Limit Code E only.						
IECEx Intrinsically Safe; Ex ia IIC (Electronic Versions D and T only)						
IECEx FISCO, intrinsically safe; Ex ia IIC (Electronic Version F only)						
IECEx protection n; Ex nL IIC (Electronic Versions D and T only)						
IECEx FNICO, protection n; Ex nL IIC (Electronic Version F only)						
IECEx flameproof; Ex d IIC (m)						
Multi-marked for ATEX, CSA, and FM Intrinsically Safe Applications (with Electronic Version -T/HART only)						
Optional Selections Refer to descriptions that follow.						
Mounting Bracket Set (o)						
Painted Steel Bracket with Plated Steel Bolts, 1/2 NPT (with Conduit Connection Codes 1 and 3 only) (p)						
Stainless Steel Bracket with Stainless Steel Bolts, 1/2 NPT (with Conduit Connection Codes 1 and 3 only) (p)						
Painted Steel Bracket with Plated Steel Bolts, PG 13.5 (with Conduit Connection Codes 2 and 4 only) (p)						
Stainless Steel Bracket with Stainless Steel Bolts, PG 13.5 (with Conduit Connection Codes 2 and 4 only) (p)						
Painted Steel Bracket with Plated Steel Bolts, M20 (with Conduit Connection Codes 5 and 6 only) (p)						
Stainless Steel Bracket with Stainless Steel Bolts, M20 (with Conduit Connection Codes 5 and 6 only) (p)						
Digital Indicator with Pushbuttons or Solid (Blind) Cover over Standard Indicator						
Digital Indicator, Pushbuttons, and Window Cover (Electronics Versions -D, -F, and -T only)						
Substitute Solid (Blind) Cover over Standard Indicator (Electronics Versions -A and -V only)						
Vent Screw and Block & Bleed Valve (q)						
316 ss Vent Screw in Process Connection: Not available with:						
Options -G, -X1, and -X2; Pressure Seals; Sanitary and Pulp/Paper Process Connections; and Nickel alloy (b) Structure Codes 62 and 63						
Block and Bleed Valve, Carbon Steel						
Block and Bleed Valve, 316 ss						
Block and Bleed Valve, 316 ss w/Monel Trim						

MODEL CODE

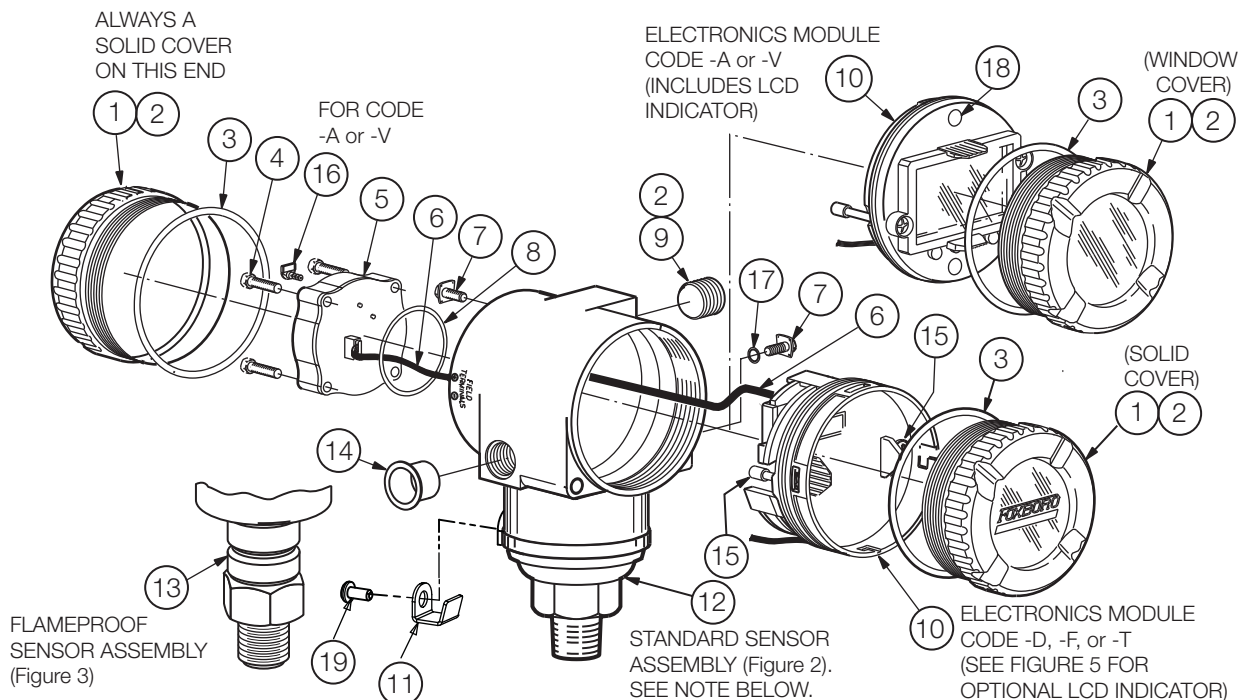
<u>Description</u>	<u>Model</u>
<u>Conduit Thread Adapters (Not with Conduit Connection Codes 5 and 6)</u>	
Hawke-Type 1/2 NPT Cable Gland for use with Conduit Connection Codes 1 and 3 (r)	-A1
Plastic PG 13.5 Cable Gland for use with Conduit Connection Codes 2 and 4 (s)	-A2
M20 Connector for use with Conduit Connection Codes 1 and 3 (r)	-A3
Brass PG 13.5 Cable Gland (Trumpet-Shaped) for use with Conduit Connection Codes 2 and 4 (s)	-A4
<u>Electronics Housing Features</u>	
External Zero Adjustment	-Z1
Custody Transfer Lock and Seal	-Z2
External Zero Adjustment and Custody Transfer Lock and Seal	-Z3
<u>Process Connections</u>	
G 1/2 B Manometer Process Connection: Not available with Option -V1, pressure seals, sanitary and pulp/paper process connections, or Nickel alloy (b) Structure Codes 62 and 63	-G
<u>Custom Factory Configuration</u>	
Digital Output (4 to 20 mA Default if not selected) - available with FoxCom Only (Electronics Version -D)	-C1
Full Factory Configuration (requires Configuration Form to be filled out)	-C2
<u>Cleaning and Preparation</u>	
Unit Degreased – for Silicone Filled Sensors only	-X1
Not for Oxygen/Chlorine Service, Options -V1 to -V4, or Pressure Seals	-X2
Cleaned and Prepared for Oxygen Service – for Inert Filled Sensors only	-X3
Not with Option -V1 or Pressure Seals	
Cleaned and Prepared for Chlorine Service (not with Options -V1 to -V4)	
Available with Structure Code 63 only (Nickel alloy (b) wetted parts and Inert Fill)	
<u>SIL2 Transmitters for HART Versions Only</u>	
FMEDA Report in Support of SIL2 Applications	-S2
<u>Seal Surface Finish</u>	
15 Ra Seal Surface Finish (t)	-F1
<u>Instruction Books (Common MI, Brochure, and Full Documentation Set on CD-ROM is Standard)</u>	
Without Instruction Book and CD - Only “Getting Started” Brochure is supplied	-K1
<u>Miscellaneous Optional Selections</u>	
Low Temperature Operative Limit of Electronics Housing Extended Down to -50°C (-58°F) (u)	-J
R 1/2 Process Connection (1/2 NPT to R 1/2 Adapter)	-R
Not available with pressure seals, Nickel alloy (b) Sensors, or sanitary and pulp/paper process connections.	
Supplemental Customer Tag (Stainless Steel Tag wired onto Transmitter)	-T

- Refer to PL 009-010 for very high GP versions with upper range limits of 52, 105, and 210 MPa (7500, 15 000, and 30 000 psi).
- Equivalent to Hastelloy® C. Hastelloy is a registered trademark of Haynes International, Inc.
- Both transmitter and pressure seal Model Numbers are required. Refer to PSS 2A-1Z11 A for pressure seal Model Codes.
- Direct Mount Seal Models that may be specified are PSTAD, PSFAD, and PSISD.
- Remote Mount Seal Models that may be specified are PSFPS, PSFES, PSFAR, PSTAR, PSISR, PSSCR, and PSSSR.
- For transmitters with silicone fill prepared for remote seal by others, specify Structure Codes 22 or 52.
- For transmitters with Inert fill prepared for remote seals by others, specify Structure Codes 23 or 53.
- Accessories used with Sanitary and Pulp and Paper Connections are ordered and supplied separately. See “Accessories” on page 31.
- Transmitter Codes M1, M6, & M9 are supplied with clamps and gaskets. All spuds are accessories that are specified by part number.
- Select only for IGP10 Transmitter with Sanitary Process Connection Codes TA to T5, M1, M6, M9; also IGP10 Transmitter with Pulp and Paper Process Connections PC, PD, PG, PH, and PJ only.
- IAP10 not available with sanitary or pulp/paper process connections.
IGP10 not available with sanitary process connections M1 to M9; or pulp/paper process connections.
When the IGP10 is used with sanitary process connections TA, TB, T2, T3, T4, and T5, the span limits are limited to a maximum of 4.2 MPa (600 psi), or the rating of the Tri-Clamp type connector used, whichever is less.
- Not available with Sanitary or Pulp and Paper Process connections.
- Available with flameproof transmitter Structure Codes 52, 53, D5, D6, S5, S6, SH, and SJ only.
- Not available with flameproof transmitter Structure Codes 52, 53, D5, D6, S5, S6, SH, and SJ.
- Mounting sets not offered with direct mounted seals, or sanitary and pulp/paper process connections. However, if a direct mounted PSTAD threaded seal with a 1/4 NPT process connection is used, then a mounting set is recommended.

- p. Mounting Bracket Sets -M1 to -M6 are available with all transmitter structures. However, not available with ATEX Electrical Safety Codes D and P.
- q. Not available with sanitary and pulp/paper process connections.
- r. Available with Electrical Safety Codes E, D, M, and N only.
- s. Available with Electrical Safety Code E only.
- t. Option -F1 (15 Ra finish) is available with Structure Codes TA, TB, T2 to T5, M1, M6, and M9. Standard seal surface finish is 32 Ra.
- u. Not available with Electronics Version -V or Inert fill in sensor or seal.

Parts

Figure 1. Transmitter Assembly



— NOTE —

For replacement sensor assemblies with sanitary or pulp and paper process connections, see Figure 4. Also see Figures 14 and 16 for vented housing with a membrane breather plug used only with the IGP10 Transmitter having sanitary or pulp and paper process connections.

Table 1. Parts for Figure 1

Item	Part No.	Qty.	Part Name
1	Tables 2 and 3	2	Cover, Electronics Housing
2	X0118CC	1	Grease, Lubriplate (1-3/4 ounce tube)
*3	X0201FC	2	O-Ring, Cover
4	Below	4	Screw, Terminal Block Assy, 0.138-32 x 0.750
	X0133UW		Steel Screw - used with Aluminum Housing
	X0133VP		316 ss Screw - used with 316 ss Housing
5	Below	1	Terminal Block Assembly
	D0149YB		Electronics Versions -A, -D, and -T
	D0149HN		Electronics Versions -F
	D0149FE		Electronics Version -V
6	P0177JE	1	Cable, Power, Replaceable (Versions -F and -V)
7	D0162VJ	2	Screw Assembly, Earth (Ground), 0.164-32 x 0.750

Table 1. Parts for Figure 1 (Continued)

Item	Part No.	Qty.	Part Name
8	X0144KR	1	O-Ring
9	Below	1	Pipe Plug for Unused Housing Conduit Connection – see WARNING on next page
	B0139CA		Pipe Plug, Aluminum, 1/2 NPT; with Housing Code 1
	B0139SK		Pipe Plug, 316 ss, 1/2 NPT; with Housing Code 3
	X0178GT		Pipe Plug, 316 ss, PG 13.5; with Housing Codes 2 and 4
	D0179FJ		Pipe Plug, Aluminum, M20; with Housing Code 5
	D0179FK		Pipe Plug, 316 ss, M20; with Housing Code 6
*10	Below	1	Electronics Module
	D0162VR		Digital FoxCom and/or 4 to 20 mA (Version -D)
	D0162UU		Digital FOUNDATION Fieldbus - FISCO compliant (Version -F)
	D0162VZ		Digital HART and 4 to 20 mA (Version -T)
	D0162ZP		Analog 4 to 20 mA (Version -A)
	D0162ZX		Analog 1 to 5 V dc, Low Power (Version -V)
11	D0197PS	1	Clip, Retention
*12	Below	1	Transmitter Replacement Sensor Assembly
	Figure		Standard Transmitter (not flameproof)
	Figure 4		Sanitary or Pulp/Paper Transmitters
*13	Figure	1	Flameproof Transmitter Replacement Sensor Assembly
14	S0102BT	1	Plug, Poly (remove prior to Transmitter Installation)
15	Below	2	Screw, Captive, Pan Head, 0.138-32 x 0.615
	D0162VM		Steel Screw - used with Aluminum Housing
	D0166CY		316 ss Screw - used with 316 ss Housing
16	D0162WS	1	HHT Plug, Analog (Code -A or -V)
17	X0173YA	1	Washer, Ext. Ground, 0.196 ID, 0.383 OD
18	X0201FW	2	Button
19	X0174EK	1	Screw, Button Head; 0.164-32 x 0.25 long

Table 2. Housing Covers (Item 1) for Electronics Versions -A and -V (Analog)

Option -L2 See Note (a)	Part Numbers for Electronics Housing covers			
	Aluminum Housing		Stainless Steel Housing	
	Field Wiring End	Electronics End	Field Wiring End	Electronics End
NO	D0162AP (b)	D0162LG (c)	D0162VD (b)	D0162VG (c)
YES	D0162AP (b)	D0162AP (b)	D0162VD (b)	D0162VD (b)

- a. Option -L2 replaces the standard window cover (for standard LCD indicator) with a blind solid cover.
b. Blind (solid) cover.
c. Standard window cover with standard LCD indicator.

Table 3. Housing Covers (Item 1) for Electronics Versions -D, -F, and -T (Digital)

Option -L1 See Note (a)	Part Numbers for Electronics Housing covers			
	Aluminum Housing		Stainless Steel Housing	
	Field Wiring End	Electronics End	Field Wiring End	Electronics End
NO	D0162AP (b)	D0162AP (b)	D0162VD (b)	D0162VD (b)
YES	D0162AP (b)	D0162LH (c)	D0162VD (b)	D0162VH (c)

- a. Option -L1 provides the user with an LCD indicator along with a window cover.
b. Blind (solid) cover.
c. Optional window cover with optional LCD indicator.

 WARNING

To maintain IP66 (IEC 529) and NEMA 4X protection, unused conduit opening must be closed with a metal plug. In addition, the threaded housing covers must be properly installed.

Figure 2. Transmitter Replacement Sensor Assembly

(See Figure 3 for Flameproof Transmitter Replacement Sensor Assemblies)
(See Figure 4 for Replacement Sensor Assemblies for Transmitters with Sanitary or Pulp and Paper Process Connections)

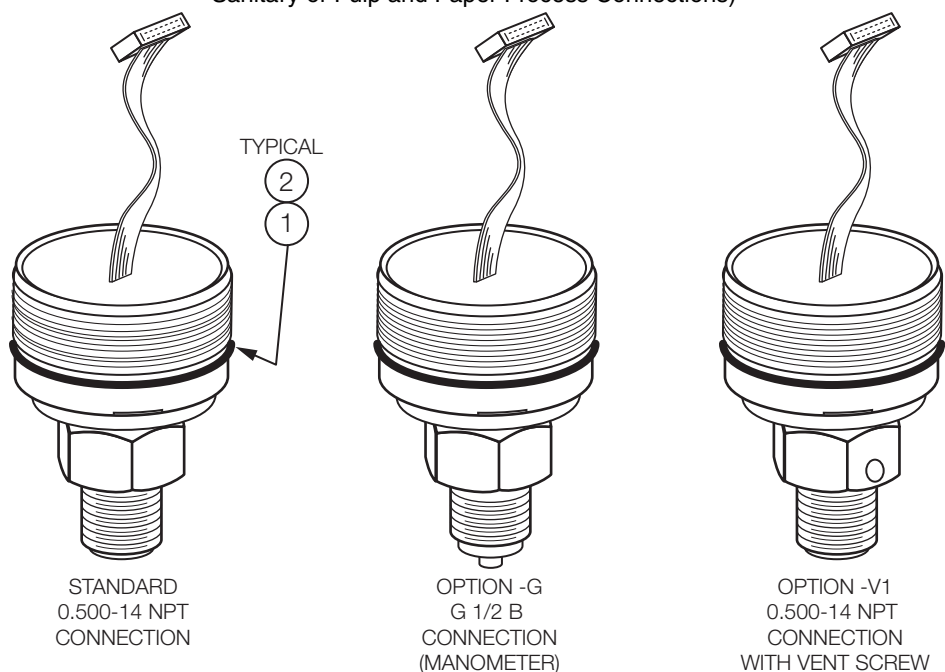


Table 4. Parts for Figure 2

Item	Part No.	Qty.	Part Name
*1	Below	1	O-ring, Housing Neck
	X0201LY		O-ring, Standard
	X0144KW		O-ring for use with CSA certifications only; see WARNING
2	X0118CC	A/R	Lubricant

! WARNING

Failure to install the proper Housing Neck O-ring (Item 1) for CSA-labeled products violates ANSI/ISA 12.27.01.

Co-Ni-Cr Sensor, Silicone Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0170EB	IGP10-.20C	0.21 MPa (30 psig)	IAP10-.20C	D0170EX
D0170EC	IGP10-.20D	2.1 MPa (300 psig)	IAP10-.20D	D0170EY
D0170ED	IGP10-.20E	21 MPa (3000 psig)	IAP10-.20E	D0170NG
D0175WA	IGP10-.20F	42 MPa (6000 psig)	N/A	N/A
D0170EH	IGP10-.20C..-G	0.21 MPa (30 psig)	IAP10-.20C..-G	D0170FD
D0170EJ	IGP10-.20D..-G	2.1 MPa (300 psig)	IAP10-.20D..-G	D0170FE
D0170EK	IGP10-.20E..-G	21 MPa (3000 psig)	IAP10-.20E..-G	D0170NJ
D0175WJ	IGP10-.20F..-G	42 MPa (6000 psig)	N/A	N/A

Co-Ni-Cr Sensor, Silicone Oil Fill, 316L ss Process Connection (Continued)

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0170EP	IGP10-.20C..-V1	0.21 MPa (30 psig)	IAP10-.20C..-V1	D0170FK
D0170EQ	IGP10-.20D..-V1	2.1 MPa (300 psig)	IAP10-.20D..-V1	D0170FL
D0170ER	IGP10-.20E..-V1	21 MPa (3000 psig)	IAP10-.20E..-V1	D0170NL
D0175WE	IGP10-.20F..-V1	42 MPa (6000 psig)	N/A	N/A

Co-Ni-Cr Sensor, Inert Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0170EE	IGP10-.21C	0.21 MPa (30 psig)	IAP10-.21C	D0170EZ
D0170EF	IGP10-.21D	2.1 MPa (300 psig)	IAP10-.21D	D0170FA
D0170EG	IGP10-.21E	21 MPa (3000 psig)	IAP10-.21E	D0170NH
D0175WB	IGP10-.21F	42 MPa (6000 psig)	N/A	N/A
D0170EL	IGP10-.21C..-G	0.21 MPa (30 psig)	IAP10-.21C..-G	D0170FF
D0170EM	IGP10-.21D..-G	2.1 MPa (300 psig)	IAP10-.21D..-G	D0170FG
D0170EN	IGP10-.21E..-G	21 MPa (3000 psig)	IAP10-.21E..-G	D0170NK
D0175WK	IGP10-.21F..-G	42 MPa (6000 psig)	N/A	N/A
D0170ES	IGP10-.21C..-V1	0.21 MPa (30 psig)	IAP10-.21C..-V1	D0170FM
D0170ET	IGP10-.21D..-V1	2.1 MPa (300 psig)	IAP10-.21D..-V1	D0170FN
D0170EU	IGP10-.21E..-V1	21 MPa (3000 psig)	IAP10-.21E..-V1	D0170NM
D0176WF	IGP10-.21F..-V1	42 MPa (6000 psig)	N/A	N/A

316L Sensor, Silicone Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0161TA	IGP10-.22C	0.21 MPa (30 psig)	IAP10-.22C	D0161TD
D0161TB	IGP10-.22D	2.1 MPa (300 psig)	IAP10-.22D	D0161TE
D0161TC	IGP10-.22E	21 MPa (3000 psig)	IAP10-.22E	D0170NA
D0175WC	IGP10-.22F	42 MPa (6000 psig)	N/A	N/A
D0161TF	IGP10-.22C..-G	0.21 MPa (30 psig)	IAP10-.22C..-G	D0161TJ
D0161TG	IGP10-.22D..-G	2.1 MPa (300 psig)	IAP10-.22D..-G	D0161TK
D0161TH	IGP10-.22E..-G	21 MPa (3000 psig)	IAP10-.22E..-G	D0170NC
D0175WL	IGP10-.22F..-G	42 MPa (6000 psig)	N/A	N/A
D0161UJ	IGP10-.22C..-V1	0.21 MPa (30 psig)	IAP10-.22C..-V1	D0161UM
D0161UK	IGP10-.22D..-V1	2.1 MPa (300 psig)	IAP10-.22D..-V1	D0161UN
D0161UL	IGP10-.22E..-V1	21 MPa (3000 psig)	IAP10-.22E..-V1	D0170NE
D0175WG	IGP10-.22F..-V1	42 MPa (6000 psig)	N/A	N/A

316L Sensor, Inert Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0161TL	IGP10-.23C	0.21 MPa (30 psig)	IAP10-.23C	D0170EV
D0161TM	IGP10-.23D	2.1 MPa (300 psig)	IAP10-.23D	D0170EW
D0161TN	IGP10-.23E	21 MPa (3000 psig)	IAP10-.23E	D0170NB
D0175WD	IGP20-.23F	42 MPa (6000 psig)	N/A	N/A

316L Sensor, Inert Oil Fill, 316L ss Process Connection (Continued)

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0161TP	IGP10-.23C..-G	0.21 MPa (30 psig)	IAP10-.23C..-G	D0170FB
D0161TQ	IGP10-.23D..-G	2.1 MPa (300 psig)	IAP10-.23D..-G	D0170FC
D0161TR	IGP10-.23E..-G	21 MPa (3000 psig)	IAP10-.23E..-G	D0170ND
D0175WM	IGP10-.23F..-G	42 MPa (6000 psig)	N/A	N/A
D0161UP	IGP10-.23C..-V1	0.21 MPa (30 psig)	IAP10-.23C..-V1	D0170FH
D0161UQ	IGP10-.23D..-V1	2.1 MPa (300 psig)	IAP10-.23D..-V1	D0170FJ
D0161UR	IGP10-.23E..-V1	21 MPa (3000 psig)	IAP10-.23E..-V1	D0170NF
D0175WH	IGP10-.23F..-V1	42 MPa (6000 psig)	N/A	N/A

Nickel alloy (a) Sensor, Silicone Oil Fill, 316 ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0182YA	IGP10-.30C	0.21 MPa (30 psig)	IAP10-.30C	D0182XA
D0182YB	IGP10-.30D	2.1 MPa (300 psig)	IAP10-.30D	D0182XB
D0182YC	IGP10-.30E	21 MPa (3000 psig)	IAP10-.30E	D0182XC
D0182YD	IGP10-.30F	42 MPa (6000 psig)	N/A	N/A
D0182VL	IGP10-.30C..-G	0.21 MPa (30 psig)	IAP10-.30C..-G	D0182VU
D0182VM	IGP10-.30D..-G	2.1 MPa (300 psig)	IAP10-.30D..-G	D0182VV
D0182VN	IGP10-.30E..-G	21 MPa (3000 psig)	IAP10-.30E..-G	D0182VW
D0182VP	IGP10-.30F..-G	42 MPa (6000 psig)	N/A	N/A
D0179FL	IGP10-.30C..-V1	0.21 MPa (30 psig)	IAP10-.30C..-V1	D0179FX
D0179FQ	IGP10-.30D..-V1	2.1 MPa (300 psig)	IAP10-.30D..-V1	D0179FY
D0179FR	IGP10-.30E..-V1	21 MPa (3000 psig)	IAP10-.30E..-V1	D0179FZ
D0179FS	IGP10-.30F..-V1	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

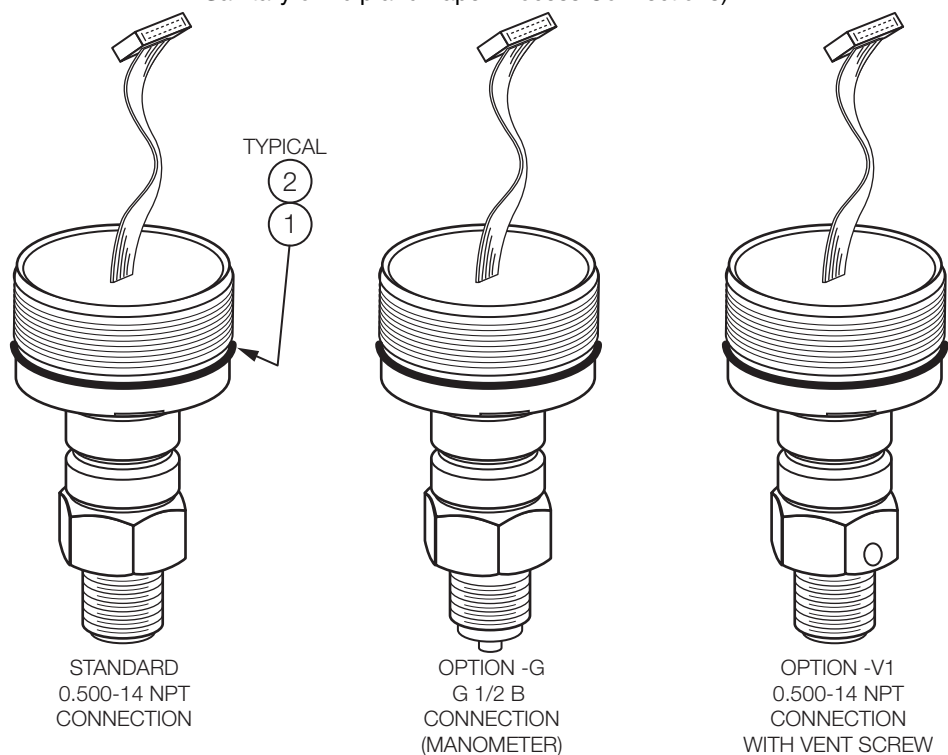
Nickel alloy (a) Sensor, Inert Oil Fill, 316 ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0182YE	IGP10-.31C	0.21 MPa (30 psig)	IAP10-.31C	D0182XE
D0182YF	IGP10-.31D	2.1 MPa (300 psig)	IAP10-.31D	D0182XF
D0182YG	IGP10-.31E	21 MPa (3000 psig)	IAP10-.31E	D0182XG
D0182YH	IGP10-.31F	42 MPa (6000 psig)	N/A	N/A
D0182VQ	IGP10-.31C..-G	0.21 MPa (30 psig)	IAP10-.31C..-G	D0182VX
D0182VR	IGP10-.31D..-G	2.1 MPa (300 psig)	IAP10-.31D..-G	D0182VY
D0182VS	IGP10-.31E..-G	21 MPa (3000 psig)	IAP10-.31E..-G	D0182VZ
D0182VT	IGP10-.31F..-G	42 MPa (6000 psig)	N/A	N/A
D0179FT	IGP10-.31C..-V1	0.21 MPa (30 psig)	IAP10-.31C..-V1	D0179GX
D0179FU	IGP10-.31D..-V1	2.1 MPa (300 psig)	IAP10-.31D..-V1	D0179GY
D0179FV	IGP10-.31E..-V1	21 MPa (3000 psig)	IAP10-.31E..-V1	D0179GZ
D0179FW	IGP10-.31F..-V1	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

Figure 3. Flameproof Transmitter Replacement Sensor

See Figure 2 for Transmitter (not flameproof) Replacement Sensor Assembly)
(See Figure 4 for Replacement Sensor Assemblies for Transmitters with
Sanitary or Pulp and Paper Process Connections)

**Table 5. Parts for Figure 3**

Item	Part No.	Qty.	Part Name
*1	Below	1	O-ring, Housing Neck
	X0201LY		O-ring, Standard
	X0144KW		O-ring for use with CSA certifications only; see WARNING
2	X0118CC	A/R	Lubricant

— **! WARNING** —

Failure to install the proper Housing Neck O-ring (Item 1) for CSA-labeled products violates ANSI/ISA 12.27.01.

316L Sensor, Silicone Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179PA	IGP10-.52C	0.21 MPa (30 psig)	IAP10-.52C	D0179QA
D0179PB	IGP10-.52D	2.1 MPa (300 psig)	IAP10-.52D	D0179QB
D0179PC	IGP10-.52E	21 MPa (3000 psig)	IAP10-.52E	D0179QC
D0179PD	IGP10-.52F	42 MPa (6000 psig)	N/A	N/A
D0179TB	IGP10-.52C..-G	0.21 MPa (30 psig)	IAP10-.52C..-G	D0179UH

316L Sensor, Silicone Oil Fill, 316L ss Process Connection (Continued)

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179TC	IGP10-.52D..-G	2.1 MPa (300 psig)	IAP10-.52D..-G	D0179UJ
D0179TD	IGP10-.52E..-G	21 MPa (3000 psig)	IAP10-.52E..-G	D0179UK
D0179TE	IGP10-.52F..-G	42 MPa (6000 psig)	N/A	N/A
D0179VR	IGP10-.52C..-V1	0.21 MPa (30 psig)	IAP10-.52C..-V1	D0179WP
D0179VS	IGP10-.52D..-V1	2.1 MPa (300 psig)	IAP10-.52D..-V1	D0179WQ
D0179VT	IGP10-.52E..-V1	21 MPa (3000 psig)	IAP10-.52E..-V1	D0179WR
D0179VU	IGP10-.52F..-V1	42 MPa (6000 psig)	N/A	N/A

316L Sensor, Inert Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179PE	IGP10-.53C	0.21 MPa (30 psig)	IAP10-.53C	D0179QD
D0179PF	IGP10-.53D	2.1 MPa (300 psig)	IAP10-.53D	D0179QE
D0179PG	IGP10-.53E	21 MPa (3000 psig)	IAP10-.53E	D0179QF
D0179PH	IGP20-.53F	42 MPa (6000 psig)	N/A	N/A
D0179TF	IGP10-.53C..-G	0.21 MPa (30 psig)	IAP10-.53C..-G	D0179UL
D0179TG	IGP10-.53D..-G	2.1 MPa (300 psig)	IAP10-.53D..-G	D0179UM
D0179TH	IGP10-.53E..-G	21 MPa (3000 psig)	IAP10-.53E..-G	D0179UN
D0179TJ	IGP10-.53F..-G	42 MPa (6000 psig)	N/A	N/A
D0179VV	IGP10-.53C..-V1	0.21 MPa (30 psig)	IAP10-.53C..-V1	D0179WS
D0179VW	IGP10-.53D..-V1	2.1 MPa (300 psig)	IAP10-.53D..-V1	D0179WT
D0179VX	IGP10-.53E..-V1	21 MPa (3000 psig)	IAP10-.53E..-V1	D0179WU
D0179VY	IGP10-.53F..-V1	42 MPa (6000 psig)	N/A	N/A

Nickel alloy (a) Sensor, Silicone Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179NM	IGP10-.60C	0.21 MPa (30 psig)	IAP10-.60C	D0179QZ
D0179NN	IGP10-.60D	2.1 MPa (300 psig)	IAP10-.60D	D0179RA
D0179NP	IGP10-.60E	21 MPa (3000 psig)	IAP10-.60E	D0179RB
D0179NQ	IGP20-.60F	42 MPa (6000 psig)	N/A	N/A
D0179TK	IGP10-.60C..-G	0.21 MPa (30 psig)	IAP10-.60C..-G	D0179UP
D0179TL	IGP10-.60D..-G	2.1 MPa (300 psig)	IAP10-.60D..-G	D0179UQ
D0179TM	IGP10-.60E..-G	21 MPa (3000 psig)	IAP10-.60E..-G	D0179UR
D0179TN	IGP10-.60F..-G	42 MPa (6000 psig)	N/A	N/A
D0179VZ	IGP10-.60C..-V1	0.21 MPa (30 psig)	IAP10-.60C..-V1	D0179WV
D0179WA	IGP10-.60D..-V1	2.1 MPa (300 psig)	IAP10-.60D..-V1	D0179WW
D0179WB	IGP10-.60E..-V1	21 MPa (3000 psig)	IAP10-.60E..-V1	D0179WX
D0179WC	IGP10-.60F..-V1	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

Nickel alloy (a) Sensor, Inert Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179NR	IGP10-.61C	0.21 MPa (30 psig)	IAP10-.61C	D0179RC
D0179NS	IGP10-.61D	2.1 MPa (300 psig)	IAP10-.61D	D0179RD
D0179NT	IGP10-.61E	21 MPa (3000 psig)	IAP10-.61E	D0179RE
D0179NU	IGP20-.61F	42 MPa (6000 psig)	N/A	N/A
D0179TP	IGP10-.61C..-G	0.21 MPa (30 psig)	IAP10-.61C..-G	D0179US
D0179TQ	IGP10-.61D..-G	2.1 MPa (300 psig)	IAP10-.61D..-G	D0179UT
D0179TR	IGP10-.61E..-G	21 MPa (3000 psig)	IAP10-.61E..-G	D0179UU
D0179TS	IGP10-.61F..-G	42 MPa (6000 psig)	N/A	N/A
D0179WD	IGP10-.61C..-V1	0.21 MPa (30 psig)	IAP10-.61C..-V1	D0179WY
D0179WE	IGP10-.61D..-V1	2.1 MPa (300 psig)	IAP10-.61D..-V1	D0179WZ
D0179WF	IGP10-.61E..-V1	21 MPa (3000 psig)	IAP10-.61E..-V1	D0179XJ
D0179WG	IGP10-.61F..-V1	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

Nickel alloy (a) Sensor, Silicone Fill, Nickel alloy (a) Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179NV	IGP10-.62C	0.21 MPa (30 psig)	IAP10-.62C	D0179RF
D0179NW	IGP10-.62D	2.1 MPa (300 psig)	IAP10-.62D	D0179RG
D0179NX	IGP10-.62E	21 MPa (3000 psig)	IAP10-.62E	D0179RH
D0179NY	IGP20-.62F	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

Nickel alloy (a) Sensor, Inert Fill, Nickel alloy (a) Process Connection

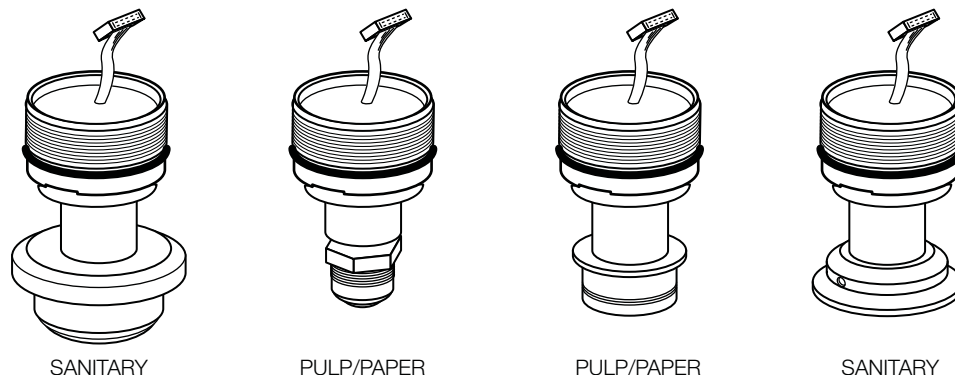
Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179PK	IGP10-.63C	0.21 MPa (30 psig)	IAP10-.63C	D0179RJ
D0179PL	IGP10-.63D	2.1 MPa (300 psig)	IAP10-.63D	D0179RK
D0179PM	IGP10-.63E	21 MPa (3000 psig)	IAP10-.63E	D0179RL
D0179PN	IGP20-.63F	42 MPa (6000 psig)	N/A	N/A

a. Equivalent to Hastelloy® C.

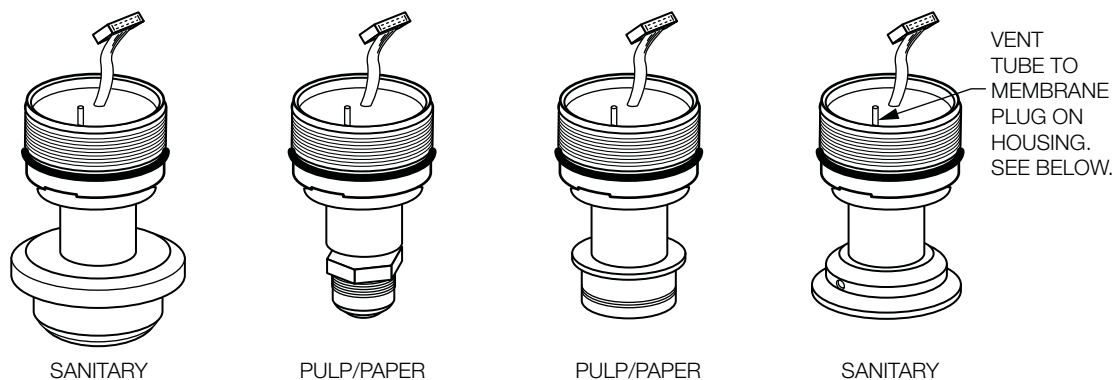
Figure 4. Replacement Sensor Assemblies for Transmitters with Sanitary or Pulp and Paper Process Connections

(See Figure 2 for Transmitter Replacement Sensor Assemblies - not Flameproof)
(See Figure 3 for Flameproof Transmitter Replacement Sensor Assemblies)

IAP10 REPLACEMENT SENSOR ASSEMBLIES



IGP10 REPLACEMENT SENSOR ASSEMBLIES



IGP10 Sanitary and Pulp/Paper Transmitters - Configurations Offered (a)

Span Limit Code	Used with Sanitary Structure Codes	Used with Pulp/Paper Structure Codes	Vent Tube to Membrane Breather Plug on Housing
B	TA, TB, T2 to T5, M1, M6, M9 only	PC, PD, PG, PH, and PJ only	Used with Sanitary Transmitters only.
C	All Sanitary Structure Codes	All Pulp/Paper Structure Codes	Used with Sanitary and Pulp/Paper Transmitters.
D	All Sanitary Structure Codes	All Pulp/Paper Structure Codes	Used with Sanitary and Pulp/Paper Transmitters.
E	TA, TB, and T2 to T5 only (b)	Not available	Vent Tube not required; no breather plug in housing.

a. Also refer to Model Code section.

b. When used with Span Limit Code E, limit is 4.2 MPa (600 psi), or the rating of the Tri-Clamp type connector used, whichever is less.

— NOTE —

Seals provided with all IAP10/IGP10 Sanitary Transmitter Structure Codes have a seal surface finish of 32 Ra. Seals with IAP10/IGP10 Transmitter Structure Codes TA, TB, T2 to T5, M1, M6, and M9 can be provided with a seal surface finish of 15 Ra when Option -F1 is selected.

PARTS

IAP10 Transmitters - Pulp and Paper Process Connections
Replacement Sensor Assemblies - 316L ss Process Connection; Silicone Fill

Reference IAP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IAP10-.PAC	N1214LE	316L ss	0.21 MPa (30 psia)
IAP10-.PBC	N1214RT	316L ss	0.21 MPa (30 psia)
IAP10-.PCC	N1214MK	316L ss	0.21 MPa (30 psia)
IAP10-.PDC	N1214KZ	316L ss	0.21 MPa (30 psia)
IAP10-.PEC	N1214SD	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.PFC	N1214RY	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.PGC	N1214SJ	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.PHC	N1214SP	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.PJC	N1216AA	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.PAD	N1214LF	316L ss	2.1 MPa (300 psia)
IAP10-.PBD	N1214RU	316L ss	2.1 MPa (300 psia)
IAP10-.PCD	N1214ML	316L ss	2.1 MPa (300 psia)
IAP10-.PDD	N1214LA	316L ss	2.1 MPa (300 psia)
IAP10-.PED	N1214SE	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.PFD	N1214RZ	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.PGD	N1214SK	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.PHD	N1214SQ	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.PJD	N1216AB	Nickel alloy (a)	2.1 MPa (300 psia)

a. Equivalent to Hastelloy® C.

IGP10 Transmitters - Pulp and Paper Process Connections
Replacement Sensor Assemblies - 316L ss Process Connection; Silicone Fill

Reference IGP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IGP10-.PAC	D0186RR	316L ss	0.21 MPa (30 psia)
IGP10-.PAD	D0186RS	316L ss	2.1 MPa (300 psia)
IGP10-.PBC	D0186RU	316L ss	0.21 MPa (30 psia)
IGP10-.PBD	D0186RV	316L ss	2.1 MPa (300 psia)
IGP10-.PCB	D0186RX	316L ss	0.21 MPa (30 psia)
IGP10-.PCC	D0186RY	316L ss	2.1 MPa (300 psia)
IGP10-.PCD	D0186RZ	316L ss	0.21 MPa (30 psia)
IGP10-.PDB	D0186SB	316L ss	2.1 MPa (300 psia)
IGP10-.PDC	D0186SC	316L ss	0.21 MPa (30 psia)
IGP10-.PDD	D0186SD	316L ss	2.1 MPa (300 psia)
IGP10-.PEC	D0186SF	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PED	D0186SG	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PFC	D0186SJ	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PFD	D0186SK	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PGB	D0186SM	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PGC	D0186SN	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PGD	D0186SP	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PHB	D0186SR	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PHC	D0186SS	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PHD	D0186ST	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PJB	D0186SV	Nickel alloy (a)	0.21 MPa (30 psia)
IGP10-.PJC	D0186SW	Nickel alloy (a)	2.1 MPa (300 psia)
IGP10-.PJD	D0186SX	Nickel alloy (a)	0.21 MPa (30 psia)

a. Equivalent to Hastelloy® C.

PARTS

**IAP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 32 Ra
Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill**

Reference IAP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IAP10-.TAC	D0182ZC	316L ss	0.21 MPa (30 psia)
IAP10-.TAD	D0182ZD	316L ss	2.1 MPa (300 psia)
IAP10-.T2C	N1212FF	316L ss	0.21 MPa (30 psia)
IAP10-.T2D	N1212FG	316L ss	2.1 MPa (300 psia)
IAP10-.T3C	D0182ZE	316L ss	0.21 MPa (30 psia)
IAP10-.T3D	D0182ZF	316L ss	2.1 MPa (300 psia)
IAP10-.TBC	D0182ZG	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.TBD	D0182ZH	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.T4C	D0182ZJ	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.T4D	D0182ZK	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.T5C	D0182ZL	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.T5D	D0182ZM	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.M1C	D0182ZN	316L ss	0.21 MPa (30 psia)
IAP10-.M1D	D0182ZP	316L ss	2.1 MPa (300 psia)
IAP10-.M6C	D0182ZQ	316L ss	0.21 MPa (30 psia)
IAP10-.M6D	D0182ZR	316L ss	2.1 MPa (300 psia)
IAP10-.M9C	D0182ZS	316L ss	0.21 MPa (30 psia)
IAP10-.M9D	D0182ZT	316L ss	2.1 MPa (300 psia)

a. Equivalent to Hastelloy® C.

**IAP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 15 Ra
Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill**

Reference IAP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IAP10-.TAC..-F1	D0197KN	316L ss	0.21 MPa (30 psia)
IAP10-.TAD..-F1	D0197KP	316L ss	2.1 MPa (300 psia)
IAP10-.T2C..-F1	D0197KQ	316L ss	0.21 MPa (30 psia)
IAP10-.T2D..-F1	D0197KR	316L ss	2.1 MPa (300 psia)
IAP10-.T3C..-F1	D0197KS	316L ss	0.21 MPa (30 psia)
IAP10-.T3D..-F1	D0197KT	316L ss	2.1 MPa (300 psia)
IAP10-.TBC..-F1	D0197KU	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.TBD..-F1	D0197KV	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.T4C..-F1	D0197KW	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.T4D..-F1	D0197KX	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.T5C..-F1	D0197KY	Nickel alloy (a)	0.21 MPa (30 psia)
IAP10-.T5D..-F1	D0197KZ	Nickel alloy (a)	2.1 MPa (300 psia)
IAP10-.M1C..-F1	D0197LA	316L ss	0.21 MPa (30 psia)
IAP10-.M1D..-F1	D0197LB	316L ss	2.1 MPa (300 psia)
IAP10-.M6C..-F1	D0197LC	316L ss	0.21 MPa (30 psia)
IAP10-.M6D..-F1	D0197LD	316L ss	2.1 MPa (300 psia)
IAP10-.M9C..-F1	D0197LE	316L ss	0.21 MPa (30 psia)
IAP10-.M9D..-F1	D0197LF	316L ss	2.1 MPa (300 psia)

a. Equivalent to Hastelloy® C.

**IGP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 32 Ra
Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill**

Reference IGP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IGP10-.TAB	D0186DP	316L ss	50 kPa (200 inH ₂ O)
IGP10-.TAC	D0186QA	316L ss	0.21 MPa (30 psig)
IGP10-.TAD	D0186QB	316L ss	2.1 MPa (300 psig)
IGP10-.TAE	D0186QC	316L ss	4.2 MPa (600 psig)
IGP10-.T2B	D0186QD	316L ss	50 kPa (200 inH ₂ O)
IGP10-.T2C	D0186QE	316L ss	0.21 MPa (30 psig)
IGP10-.T2D	D0186QF	316L ss	2.1 MPa (300 psig)
IGP10-.T2E	D0186QG	316L ss	4.2 MPa (600 psig)
IGP10-.T3B	D0186QH	316L ss	50 kPa (200 inH ₂ O)
IGP10-.T3C	D0186QJ	316L ss	0.21 MPa (30 psig)
IGP10-.T3D	D0186QK	316L ss	2.1 MPa (300 psig)
IGP10-.T3E	D0186QL	316L ss	4.2 MPa (600 psig)
IGP10-.TBB	D0186QM	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.TBC	D0186QN	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.TBD	D0186QP	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.TBE	D0186QQ	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.T4B	D0186QR	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.T4C	D0186QS	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.T4D	D0186QT	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.T4E	D0186QU	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.T5B	D0186QV	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.T5C	D0186QW	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.T5D	D0186QX	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.T5E	D0186QY	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.M1B	D0186QZ	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M1C	D0186RA	316L ss	0.21 MPa (30 psig)
IGP10-.M1D	D0186RB	316L ss	2.1 MPa (300 psig)
IGP10-.M6B	D0186RC	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M6C	D0186RD	316L ss	0.21 MPa (30 psig)
IGP10-.M6D	D0186RE	316L ss	2.1 MPa (300 psig)
IGP10-.M9B	D0186RF	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M9C	D0186RG	316L ss	0.21 MPa (30 psig)
IGP10-.M9D	D0186RH	316L ss	2.1 MPa (300 psig)

a. Equivalent to Hastelloy® C.

**IGP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 15 Ra
Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill**

Reference IGP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IGP10-.TAB..-F1	D0197JD	316L ss	50 kPa (200 inH ₂ O)
IGP10-.TAC..-F1	D0197JE	316L ss	0.21 MPa (30 psig)
IGP10-.TAD..-F1	D0197JF	316L ss	2.1 MPa (300 psig)
IGP10-.TAE..-F1	D0197JG	316L ss	4.2 MPa (600 psig)
IGP10-.T2B..-F1	D0197JH	316L ss	50 kPa (200 inH ₂ O)
IGP10-.T2C..-F1	D0197JJ	316L ss	0.21 MPa (30 psig)
IGP10-.T2D..-F1	D0197JK	316L ss	2.1 MPa (300 psig)
IGP10-.T2E..-F1	D0197JL	316L ss	4.2 MPa (600 psig)

PARTS

IGP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 15 Ra
Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill (Continued)

Reference IGP10 Model Number	Part Number	Diaphragm Material	Maximum Span
IGP10-.T3B..-F1	D0197JM	316L ss	50 kPa (200 inH ₂ O)
IGP10-.T3C..-F1	D0197JN	316L ss	0.21 MPa (30 psig)
IGP10-.T3D..-F1	D0197JP	316L ss	2.1 MPa (300 psig)
IGP10-.T3E..-F1	D0197JQ	316L ss	4.2 MPa (600 psig)
IGP10-.TBB..-F1	D0197JR	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.TBC..-F1	D0197JS	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.TBD..-F1	D0197JT	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.TBE..-F1	D0197JU	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.T4B..-F1	D0197JV	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.T4C..-F1	D0197JW	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.T4D..-F1	D0197JX	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.T4E..-F1	D0197JY	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.T5B..-F1	D0197JZ	Nickel alloy (a)	50 kPa (200 inH ₂ O)
IGP10-.T5C..-F1	D0197KA	Nickel alloy (a)	0.21 MPa (30 psig)
IGP10-.T5D..-F1	D0197KB	Nickel alloy (a)	2.1 MPa (300 psig)
IGP10-.T5E..-F1	D0197KC	Nickel alloy (a)	4.2 MPa (600 psig)
IGP10-.M1B..-F1	D0197KD	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M1C..-F1	D0197KE	316L ss	0.21 MPa (30 psig)
IGP10-.M1D..-F1	D0197KF	316L ss	2.1 MPa (300 psig)
IGP10-.M6B..-F1	D0197KG	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M6C..-F1	D0197KH	316L ss	0.21 MPa (30 psig)
IGP10-.M6D..-F1	D0197KJ	316L ss	2.1 MPa (300 psig)
IGP10-.M9B..-F1	D0197KK	316L ss	50 kPa (200 inH ₂ O)
IGP10-.M9C..-F1	D0197KL	316L ss	0.21 MPa (30 psig)
IGP10-.M9D..-F1	D0197KM	316L ss	2.1 MPa (300 psig)

a. Equivalent to Hastelloy® C.

— ! CAUTION —

The IGP10 sanitary replacement sensors listed in the tables above are for use with electronics housings vented with a membrane breather plug. These replacement sensors for the IGP10 sanitary versions are distinguishable by the vent tube shown in Figure 4. Conversely, housings that do not have a membrane breather plug must be used with sensor assemblies not having a vent tube. For users with an existing IGP10 sanitary transmitter, not having a housing with a membrane breather plug, that require a replacement sensor assembly, contact Global Customer Support for a replacement housing assembly with a membrane breather plug.

Figure 5. Optional Liquid Crystal Display (LCD) Indicator Assembly

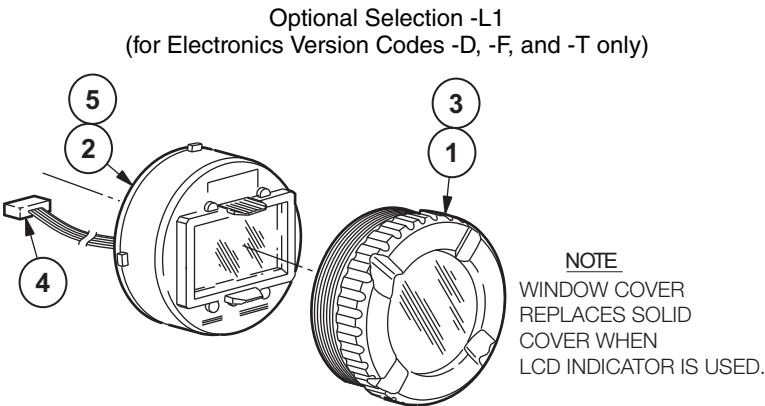


Table 6. Parts for Figure 5

Item	Part No.	Qty.	Part Name
1	Below	1	Cover Assembly with Window - used with LCD Indicator
	D0162LH		Aluminum Cover Assembly
	D0162VH		Stainless Steel Cover Assembly
*2	D0162LQ	1	Indicator Module
3	X0118CC	A/R	Grease, Lubriplate (1-3/4 ounce tube)
4	P0177HB	1	Indicator Cable
5	0048130	A/R	Grease, Silicone (150 gram tube)

**Figure 6. Optional Custody Transfer Lock and Seal
Optional Selection -Z2**

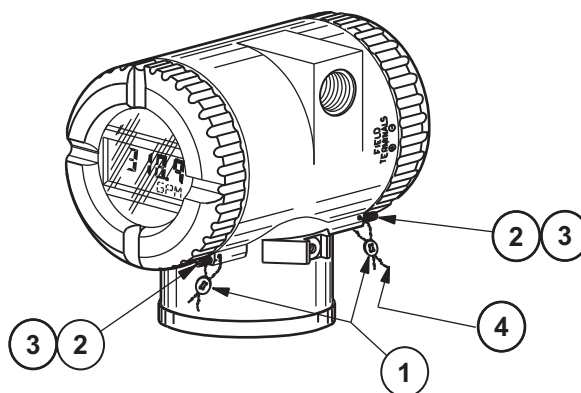
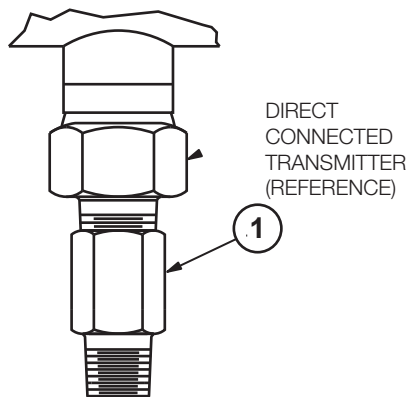


Table 7. Parts for Figure 6

Item	Part No.	Qty.	Part Name
1	S001806	2	Lead Seal
2	D0162WM	2	Screw, Lock, 0.164-32
3	X0118CC	A/R	Grease, Lubriplate (1-3/4 ounce tube)
4	S001807	A/R	Sealing Wire

**Figure 7. Optional Metric Process Connection
Optional Selection -R**



Parts for Figure 7

Item	Part No.	Qty.	Part Name
1	X0171ZX	1	Adapter, Pipe, 316 ss, 1/2 NPT to Rc 1/2

Figure 8. Optional Block and Bleed
Optional Selection -V2, -V3, or -V4

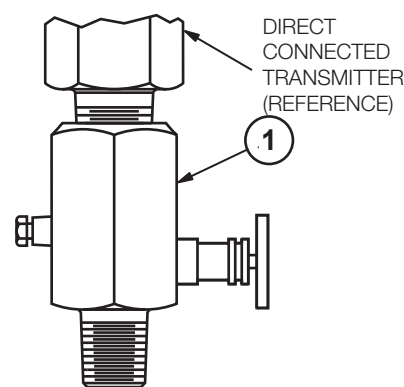


Table 8. Parts for Figure 8

Item	Part No.	Qty.	Part Name
1	Below	1	Block and Bleed Valve
	X0172BU		Carbon Steel (Optional Selection -V2)
	X0172BV		316 ss (Optional Selection -V3)
	X0172BW		316 ss Body, Monel Trim, NACE Approved (Optional Selection -V4)

Figure 9. Optional Vent Screw
Optional Selection -V1

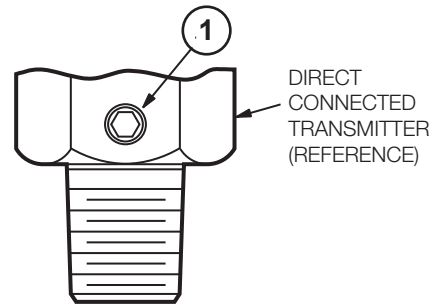
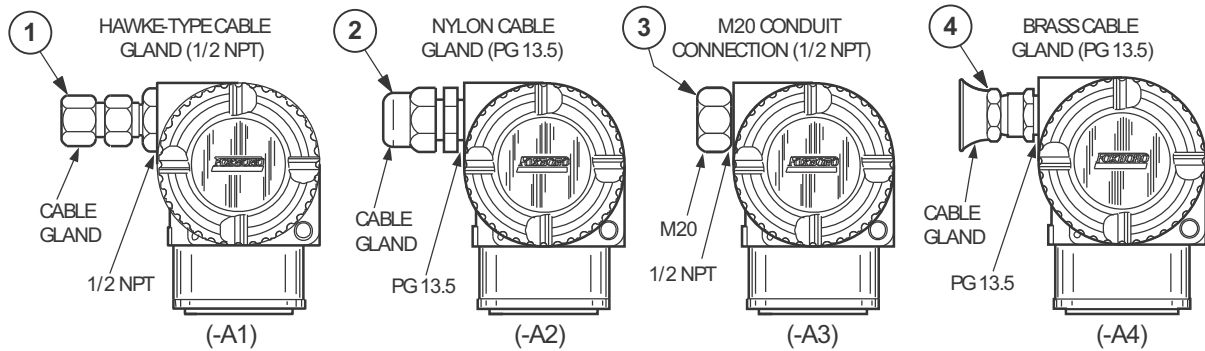


Table 9. Parts for Figure 9

Item	Part No.	Qty.	Part Name
1	D0161SW	1	Vent Screw, 316 ss

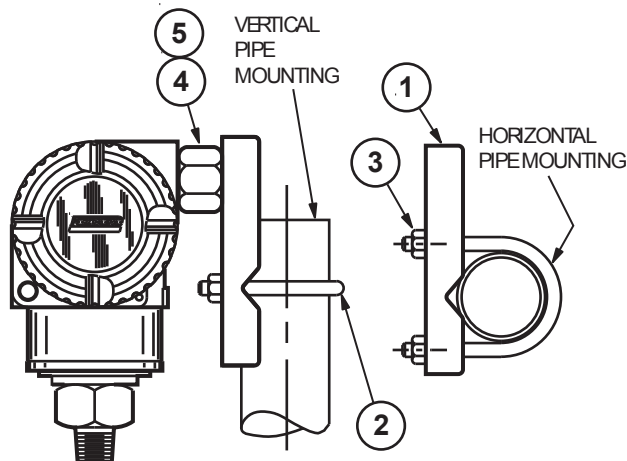
Figure 10. Optional Conduit - Connections
Optional Selections -A1, -A2, -A3, and -A4



Parts for Figure 10

Item	Part No.	Qty.	Part Name
1	N7141HX	1	Hawke-Type Cable Gland (for 1/2 NPT)
2	X0178GU	1	Nylon Cable Gland (for PG 13.5)
3	N7141DX	1	Metric Conduit Thread Connection, M20/20 mm (for 1/2 NPT)
4	N7141DW	1	Plated Brass Cable Gland (for PG 13.5)

Figure 11. Optional Pipe Mounting Sets
Optional Selections -M1, -M2, -M3, -M4, -M5, and -M6 (See NOTE)



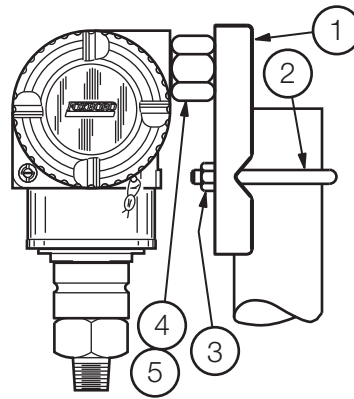
NOTE
FOR FLAMEPROOF TRANSMITTERS,
REFER TO FIGURE 12.

Parts for Figure 11

Optional Selections -M1, -M3, and -M5 (Painted Steel)			
Item	Part No.	Qty.	Part Name
–	Below	–	Mounting Bracket Set; Options -M1, -M3, and -M5
	B0188DL		Option -M1, Aluminum Housing; 1/2 NPT Connections
	D0166AP		Option -M3, Aluminum Housing; PG 13.5 Connections
	D0179FN		Option -M5, Aluminum Housing; M20 Connections
1	N0141ZW	1	Bracket, Mounting, painted steel
2	D0114SM	1	U-Bolt, Steel
3	0011962	2	Nut, Hex Head, plated cs, 0.312-18
4	Below	1	Adapter Plug
	B0188DN		1/2 NPT to 0.375-24, ss, Option -M1
	D0166AM		PG 13.5 to 0.375-24, ss, Option -M3
	D0179FM		M20 to 0.375-24, ss, Option -M5
5	X0116FB	1	Screw, Hex Head, plated cs, 0.375-24 x 0.625
Optional Selection -M2, -M4, and -M6 (Stainless Steel)			
Item	Part No.	Qty.	Part Name
–	Below	–	Mounting Bracket Set; Options -M2, -M4, and -M6
	N1207AE		Option -M2, 316 ss Housing; 1/2 NPT Connections
	D0166AN		Option -M4, 316 ss Housing; PG 13.5 Connections
	D0179FP		Option -M6, 316 ss Housing; M20 Connections
1	N1205MF	1	Bracket, Mounting, stainless steel
2	N1205MX	1	U-Bolt, stainless steel
3	Z1217HV	2	Nut, Hex Head, ss, 0.312-18
4	Below	1	Adapter Plug
	B0188DN		1/2 NPT to 0.375-24, ss, Option -M2
	D0166AM		PG 13.5 to 0.375-24, ss, Option -M4
	D0179FM		M20 to 0.375-24, ss, Option -M6
5	P0120RM	1	Screw, Hex Head, ss, 0.375-24 x 0.625

**Figure 12. Optional Pipe Mounting Sets
Optional Selections -M1 to -M6
for Use with Flameproof Transmitters**

IAP10/IGP10
FLAMEPROOF
TRANSMITTER WITH
OPTIONS -M1 TO -M6



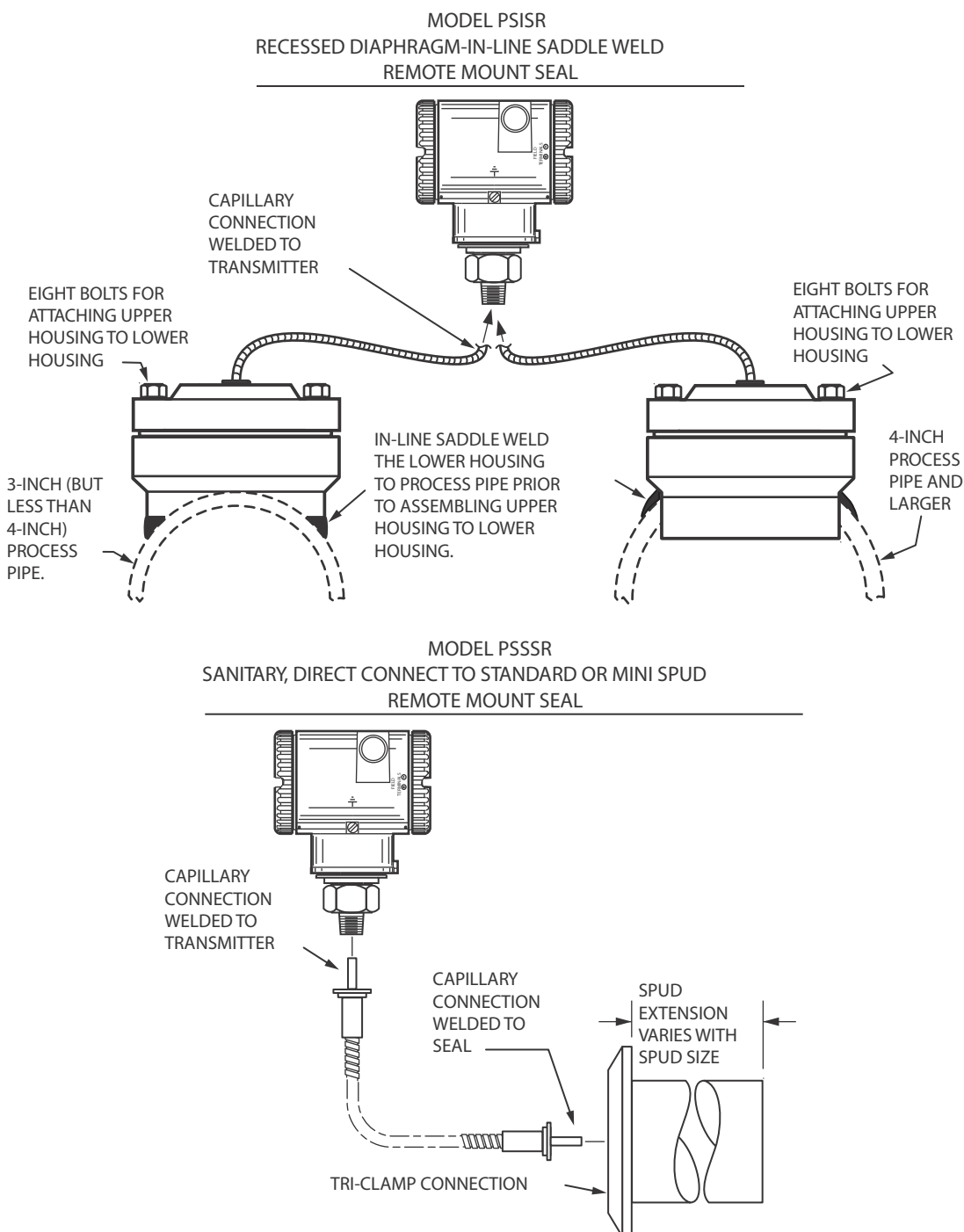
**Optional Selections -M1 to -M6
(Refer to Figure 11 for part numbers of Items 1 to 5)**

Item	Part No.	Qty.	Part Name
–	Below	1	Mounting Bracket Set; Painted Steel; Options -M1, -M3, and -M5
	B0188DL		Option -M1, Aluminum Housing; 1/2 NPT Connections
	D0166AP		Option -M3, Aluminum Housing; PG 13.5 Connections
	D0179FN		Option -M5, Aluminum Housing; M20 Connections
–	Below	1	Mounting Bracket Set; Stainless Steel; Options -M2, -M4, and -M6
	N1207AE		Option -M2, 316 ss Housing; 1/2 NPT Connections
	D0166AN		Option -M4, 316 ss Housing; PG 13.5 Connections
	D0179FP		Option -M6, 316 ss Housing; M20 Connections

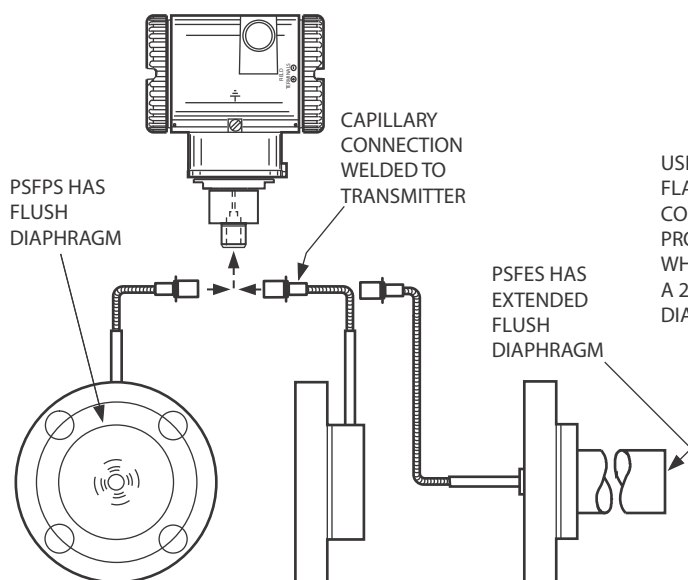
Figure 13. Pressure Seals for Use with IAP10 and IGP10 Transmitters

— NOTE —

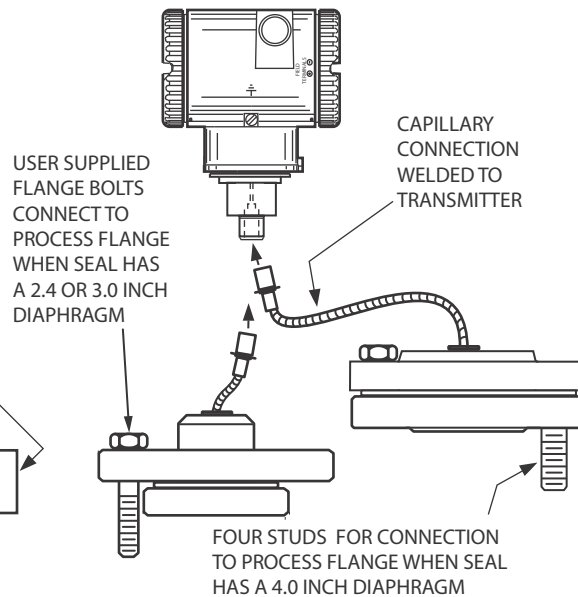
The pressure seals shown below are used with IAP10 and IGP10 Transmitters. Pressure seals are not replaceable items; they must be replaced with the entire transmitter/seal assembly. In this case, both transmitter and pressure seal Model Numbers must be used for the assembled transmitter/seal system. Refer to data plates attached to transmitter and pressure seal(s) for applicable part numbers, or refer to PSS 2A-1Z11 A for Pressure Seal Model Codes.



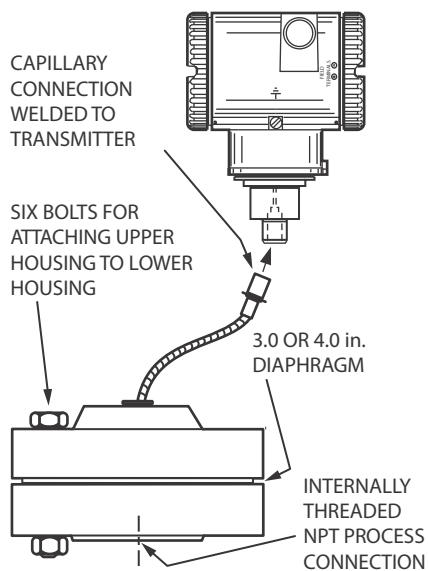
MODELS PSFPS AND PSFES
FLUSH DIAPHRAGM-FLANGED CONNECTION
REMOTE MOUNT SEALS



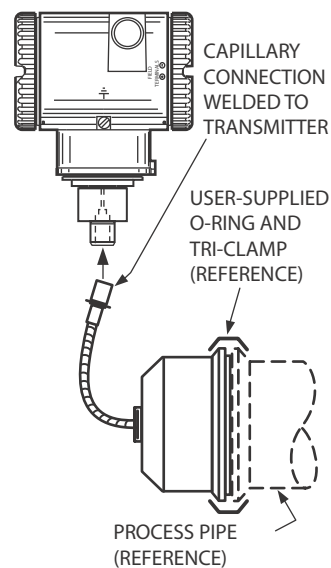
MODEL PSFAR
RECESSED DIAPHRAGM-FLANGED CONNECTION
REMOTE MOUNT SEALS



MODEL PSTAR
RECESSED DIAPHRAGM
THREADED CONNECTION
REMOTE MOUNT SEAL



MODEL PSSCR
FLUSH DIAPHRAGM
SANITARY TRI-CLAMP
REMOTE MOUNT SEAL



MODELS PSFAD, PSTAD, AND PSISD DIRECT MOUNT SEALS

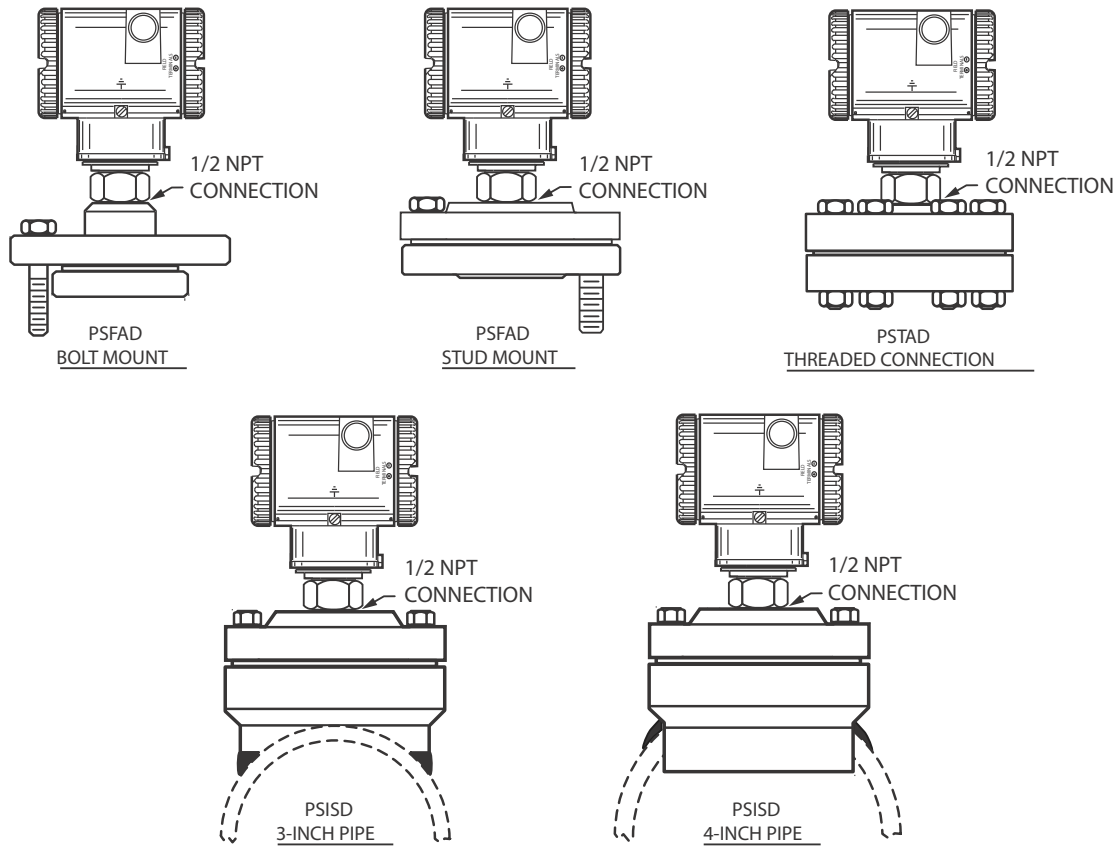


Figure 14. Integral Sanitary Process Connectors for Use with IAP10 and IGP10 Transmitters

— NOTE —

The integral sanitary process connectors shown below are used with IAP10 and IGP10 Transmitters. Refer to Figure 4 for replacement sensor assemblies, and to pages that follow for accessories used with these transmitters.

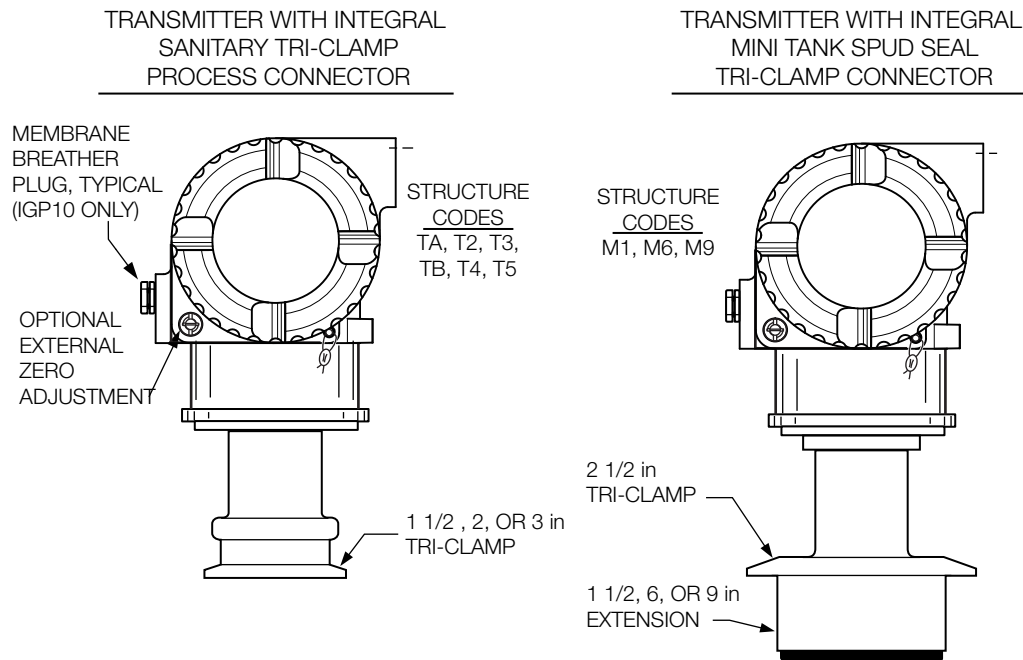
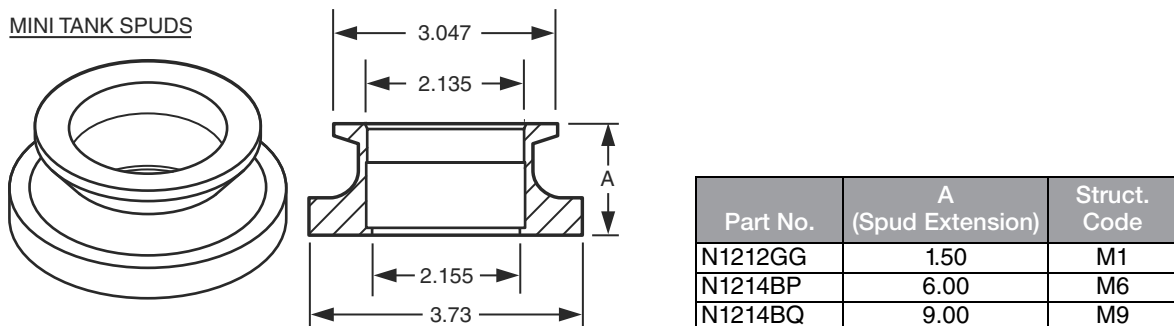
**Accessories**

Figure 15. Accessories - Sanitary Process Connections)



Tri-Clamp Type Connector Part Numbers (a)

Nominal Tube O.D.	MWP at 70°F	MWP at 250°F	Part Number
1.5 in Tube	500 psi	300 psi	N1212DA
2 in Tube	450 psi	300 psi	N1212DB
3 in Tube	350 psi	195 psi	N1212DC
1.5 in Tube	600 psi	300 psi	N1212PP
2 in Tube	550 psi	275 psi	N1212PQ
2.5 in Tube	450 psi	225 psi	N1212HG (b)
3 in Tube	350 psi	175 psi	N1212PR
4 in Tube	300 psi	150 psi	N1212PS
1.5 in Tube	1500 psi	1200 psi	N1212FV
2 in Tube	1000 psi	800 psi	N1212FW
4 in Tube	800 psi	600 psi	N1212AW

a. Tri-Clamps are generally supplied by user but can be ordered from Invensys Systems, Inc.

b. The Foxboro N1212HG Tri-Clamp for a 2.5 in tube is used with Mini Tank Spud Connectors M1, M6, and M9.

Package of O-rings

Structure Code	Description	Application	Part Number
M1, M6, M9	O-Rings	For use with Mini Tank Spud Connector	N1212LB

**Figure 16. Integral Pulp and Paper Process Connectors
for Use with IAP10 and IGP10 Transmitters**

— NOTE —

The integral pulp and paper process connectors shown below are used with IAP10 and IGP10 Transmitters. Refer to Figure 4 for replacement sensor assemblies, and to pages that follow for accessories used with these transmitters.

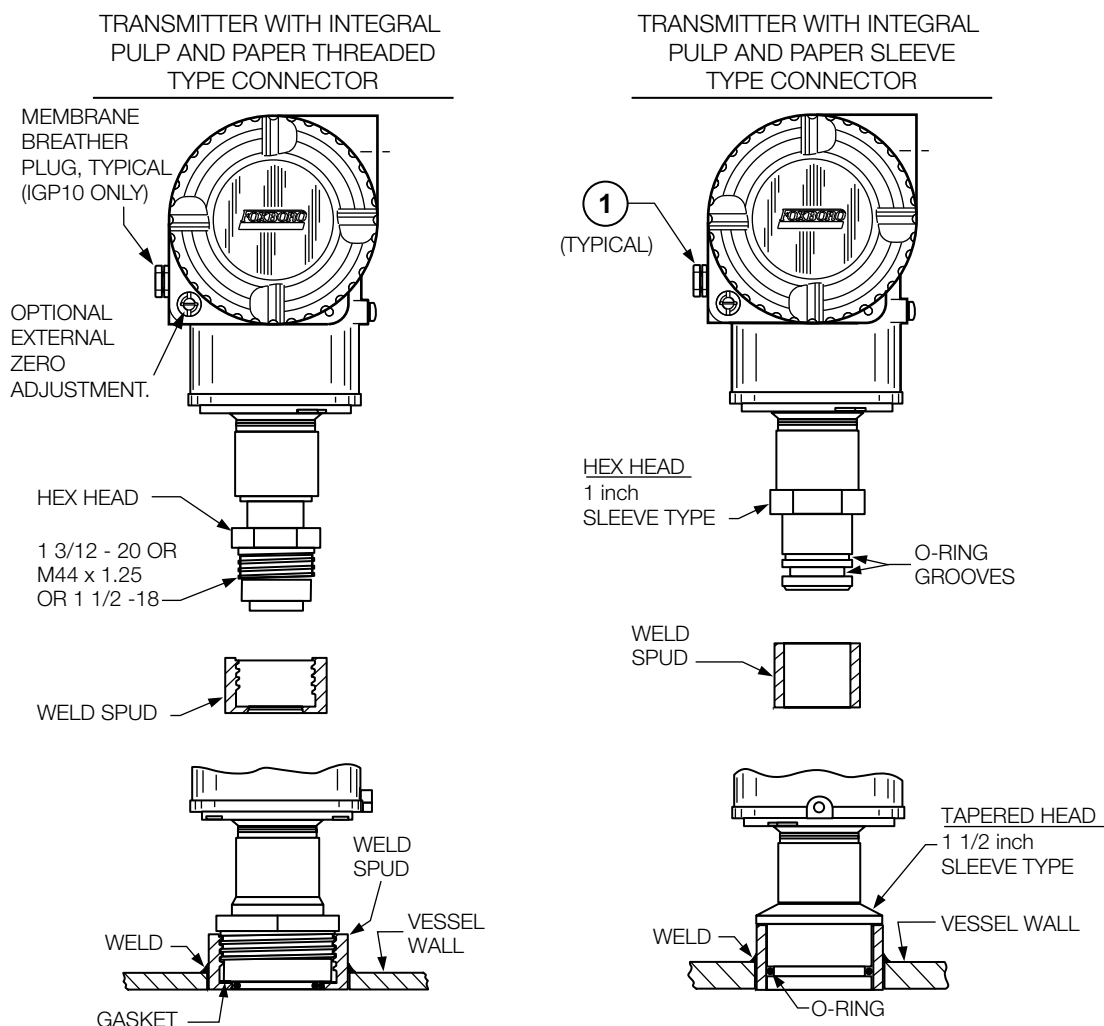


Table 10. Parts for Figure 16

Item	Part No.	Qty.	Part Number
1	D0186DR	1	Membrane Breather Plug (for use with IGP10 Transmitters only, except Span Limit Code E)

Figure 17. Accessories - Pulp and Paper Process Connections

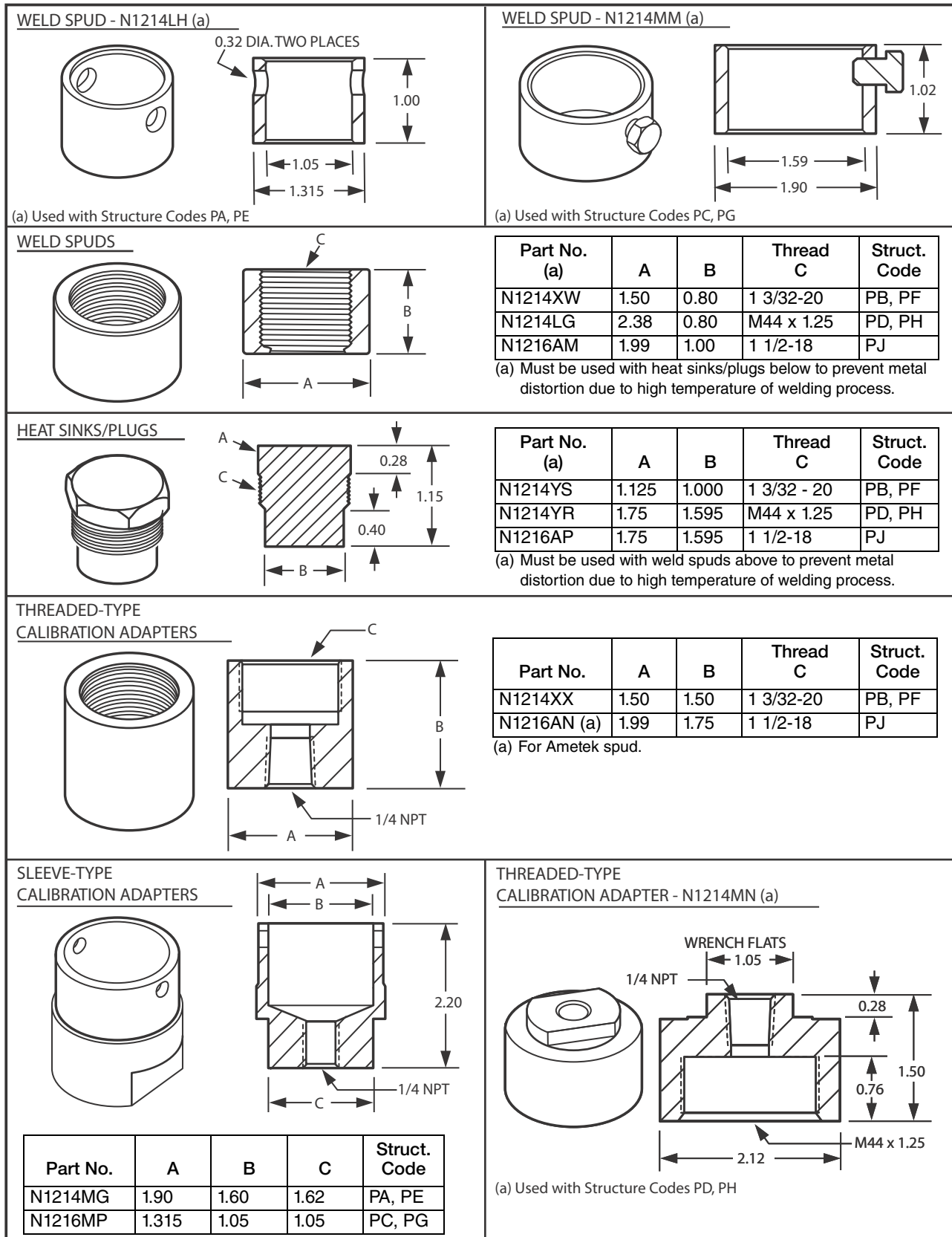


**Table 11. Weld Spuds, Calibration Adapters, Heat Sinks/Plugs, O-Rings, and Gaskets
used with Threaded and Sleeve Type Process Connectors**

Description of Accessory (a)	Used with Structure Code	Part Number (b)
For use with 1-inch Sleeve Type Connector Weld Spud Calibration Adapter Process O-Ring at Diaphragm (Viton), 1-in Sleeve Process O-Ring, Outer (Viton), 1-in Sleeve	PA, PE PA, PE PA, PE PA, PE	N1214LH (c) N1214MP (c) N1214Y (d) N1214YZ (d)
For use with 1-inch Flush, Threaded Type Connector Weld Spud (e) Heat Sink/Plug (e) Calibration Adapter Process Gasket (Gylon)	PB, PF PB, PF PB, PF PB, PF	N1214XW (c) N1214YS (c) N1214XX (c) N1214YX (d)
For use with 1.5-inch Sleeve Type Connector Weld Spud Calibration Adapter Process O-Ring (Viton)	PC, PG PC, PG PC, PG	N1214MM (c) N1214MQ (c) N1214YW (d)
For use with 1.5-inch Flush, Threaded Type Connector Weld Spud (e) Heat Sink/Plug (e) Calibration Adapter Process Gasket (Gylon)	PD, PH PD, PH PD, PH PD, PH	N1214LG (c) N1214YR (c) N1214MN (c) N1214YV (d)
For use with 1.5-inch Threaded Type Connector for Ametek Spud Weld Spud (e) Heat Sink/Plug (e) Calibration Adapter Process Gasket (Gylon)	PJ PJ PJ PJ	N1216AM N1216AP N1216AN N1216AQ (d)

- Accessories are ordered and supplied separately.
- Refer to Figure 17 for configuration and dimensions of certain accessories listed.
- Weld spuds, heat sinks/plugs, and calibration adapters are supplied by user.
- Each transmitter is shipped with its required gaskets or O-rings. Part number is for a package of five O-rings or gaskets. The gaskets and O-rings listed are offered as extras (spares).
- When ordering a weld spud for use with a threaded type connector, note that use of a heat sink/plug is required to prevent metal distortion due to the high temperature of the welding process.

**Figure 18. Optional SIL2 Transmitter for HART Versions
Optional Selection -S2**

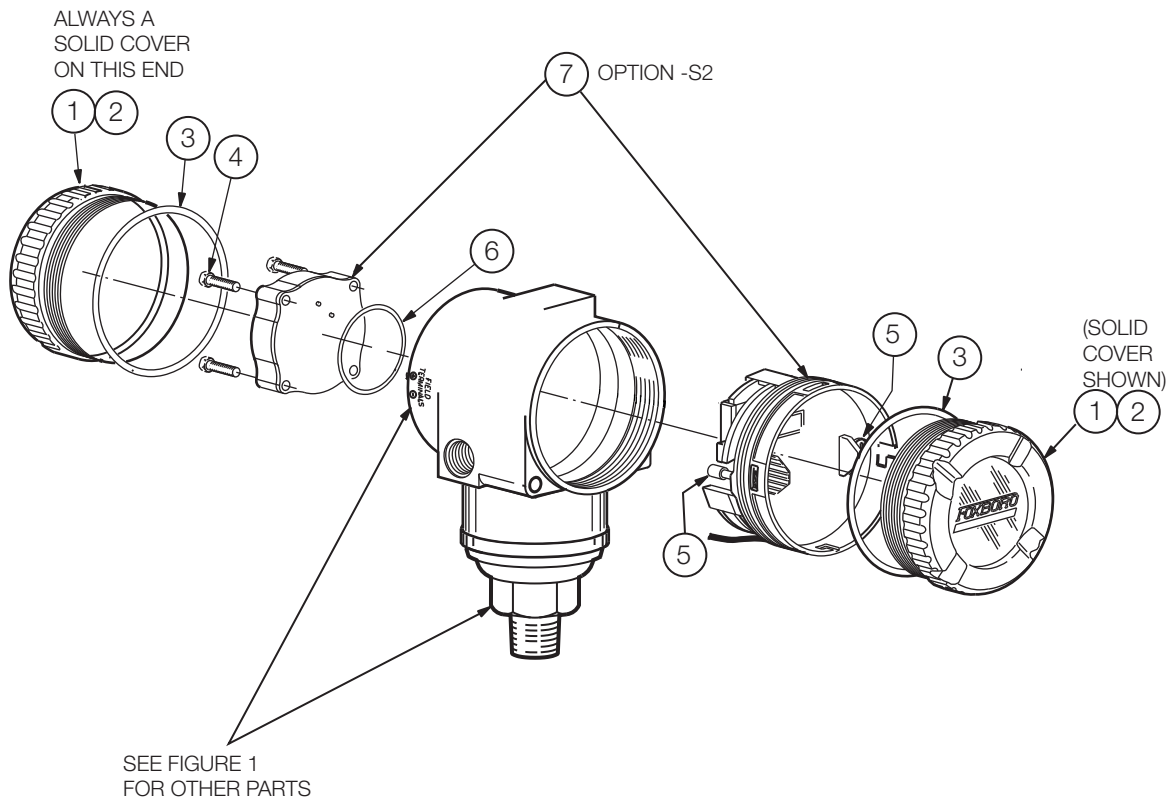


Table 12. Parts for Figure 18

Item	Part No.	Qty.	Part Name
1	Below	2	Cover, Electronics Housing (Note 1)
	B0162AP		Solid Cover, Aluminum
	B0162VD		Solid Cover, Stainless Steel
2	X0118CC	1	Grease, Lubriplate; 1 3/4 ounce Tube
3	X0201FC	2	O-Ring, Cover
4	Below	4	Screw, Terminal Block Assy; 0.138-32 x 0.750
	X0133UW		Steel Screw used with Aluminum Housing
	X0133VP		316 ss Screw used with 316 ss Housing
5	Below	2	Screw, Captive, Panhd; 0.118-32 x 0.615
	D0162VM		Steel Screw used with Aluminum Housing
	D0166CY		316 ss Screw used with 316 ss Housing
6	X0144KR	1	O-Ring, Terminal Block
7	D0197FP	1	SIL Kit for SIL2-Certified HART Versions only (Note 2)

RECOMMENDED SPARE PARTS SUMMARY

— NOTE —

1. A solid cover on the electronics end of the housing is shown. When the LCD Indicator Option (Option -L1) is selected, a window cover is provided as shown in Figure 5.
2. SIL2 Transmitters are available with HART versions. A SIL2 Kit comprises a terminal block assembly, a characterized HART electronics module (with label), and instructions. Replacement of SIL2 Option -S2 must be performed using the SIL2 kit.

Recommended Spare Parts Summary

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	3	X0201FC	O-Ring, Cover	0	2	4
	10	Below D0162VR D0162UU D0162VZ D0162ZP D0162ZX	Electronics Module Digital FoxCom and/or 4 to 20 mA (Version -D) Digital Foundation Fieldbus (Version -F) Digital HART and 4 to 20 mA (Version -T) Analog 4 to 20 mA (Version -A) Analog 1 to 5 V dc, Low Power (Version -V)	0	1	1
	12 (Also see Figure 2)	Below D0170EX D0170EY D0170NG D0170FD D0170FE D0170NJ D0170FK D0170FL D0170NL	Transmitter Sensor Assembly Reference Model Code IAP10-.20C IAP10-.20D IAP10-.20E IAP10-.20C..-G IAP10-.20D..-G IAP10-.20E..-G IAP10-.20C..-V1 IAP10-.20D..-V1 IAP10-.20E..-V1	0	1	1
		D0170EZ D0170FA D0170NH D0170FF D0170FG D0170NK D0170FM D0170FN D0170NM	IAP10-.21C IAP10-.21D IAP10-.21E IAP10-.21C..-G IAP10-.21D..-G IAP10-.21E..-G IAP10-.21C..-V1 IAP10-.21D..-V1 IAP10-.21E..-V1			
		D0161TD D0161TE D0170NA D0161TJ D0161TK D0170NC D0161UM D0161UN D0170NE	IAP10-.22C IAP10-.22D IAP10-.22E IAP10-.22C..-G IAP10-.22D..-G IAP10-.22E..-G IAP10-.22C..-V1 IAP10-.22D..-V1 IAP10-.22E..-V1			
		D0170EV D0170EW D0170NB D0170FB D0170FC D0170ND D0170FH D0170FJ D0170NF	IAP10-.23C IAP10-.23D IAP10-.23E IAP10-.23C..-G IAP10-.23D..-G IAP10-.23E..-G IAP10-.23C..-V1 IAP10-.23D..-V1 IAP10-.23E..-V1			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 2)	Below	Transmitter Sensor Assembly (Reference Model Code) (Cont.)			
		D0182XA	IAP10-.30C			
		D0182XB	IAP10-.30D			
		D0182XC	IAP10-.30E			
		D0182VU	IAP10-.30C..-G			
		D0182VV	IAP10-.30D..-G			
		D0182VW	IAP10-.30E..-G			
		D0179FX	IAP10-.30C..V1			
		D0179FY	IAP10-.30D..V1			
		D0179FZ	IAP10-.30E..V1			
		D0182XE	IAP10-.31C			
		D0182XF	IAP10-.31D			
		D0182XG	IAP10-.31E			
		D0182VX	IAP10-.31C..-G			
		D0182VY	IAP10-.31D..-G			
		D0182VZ	IAP10-.31E..-G			
		D0179GX	IAP10-.31C..V1			
		D0179GY	IAP10-.31D..V1			
		D0179GZ	IAP10-.31E..V1			
Figure 1	12 (Also see Figure 2)	Below	Transmitter Sensor Assembly (Reference Model Code) (Cont.)	0	1	1
		D0170EB	IGP10-.20C			
		D0170EC	IGP10-.20D			
		D0170ED	IGP10-.20E			
		D0175WA	IGP10-.20F			
		D0170EH	IGP10-.20C..-G			
		D0170EJ	IGP10-.20D..-G			
		D0170EK	IGP10-.20E..-G			
		D0175WJ	IGP10-.20F..-G			
		D0170EP	IGP10-.20C..V1			
		D0170EQ	IGP10-.20D..V1			
		D0170ER	IGP10-.20E..V1			
		D0175WE	IGP10-.20F..V1			
		D0170EE	IGP10-.21C			
		D0170EF	IGP10-.21D			
		D0170EG	IGP10-.21E			
		D0175WB	IGP10-.21F			
		D0170EL	IGP10-.21C..-G			
		D0170EM	IGP10-.21D..-G			
		D0170EN	IGP10-.21E..-G			
		D0175WK	IGP10-.21F..-G			
		D0170ES	IGP10-.21C..V1			
		D0170ET	IGP10-.21D..V1			
		D0170EU	IGP10-.21E..V1			
		D0175WF	IGP10-.21F..V1			
		D0161TA	IGP10-.22C			
		D0161TB	IGP10-.22D			
		D0161TC	IGP10-.22E			
		D0175WC	IGP10-.22F			
		D0161TF	IGP10-.22C..-G			
		D0161TG	IGP10-.22D..-G			
		D0161TH	IGP10-.22E..-G			
		D0175WL	IGP10-.22F..-G			
		D0161UJ	IGP10-.22C..V1			
		D0161UK	IGP10-.22D..V1			
		D0161UL	IGP10-.22E..V1			
		D0175WG	IGP10-.22F..V1			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 2)	Below	Transmitter Sensor Assembly (Reference Model Code) (Cont.)	0	1	1
		D0161TL	IGP10-.23C			
		D0161TM	IGP10-.23D			
		D0161TN	IGP10-.23E			
		D0175WD	IGP10-.23F			
		D0161TP	IGP10-.23C..-G			
		D0161TQ	IGP10-.23D..-G			
		D0161TR	IGP10-.23E..-G			
		D0175WM	IGP10-.23F..-G			
		D0161UP	IGP10-.23C..-V1			
		D0161UQ	IGP10-.23D..-V1			
		D0161UR	IGP10-.23E..-V1			
		D0175WH	IGP10-.23F..-V1			
		D0182YA	IGP10-.30C			
		D0182YB	IGP10-.30D			
		D0182YC	IGP10-.30E			
		D0182YD	IGP10-.30F			
		D0182VL	IGP10-.30C..-G			
		D0182VM	IGP10-.30D..-G			
		D0182VN	IGP10-.30E..-G			
		D0182VP	IGP10-.30F..-G			
		D0179FL	IGP10-.30C..-V1			
		D0179FQ	IGP10-.30D..-V1			
		D0179FR	IGP10-.30E..-V1			
		D0179FS	IGP10-.30F..-V1			
		D0182YE	IGP10-.31C			
		D0182YF	IGP10-.31D			
		D0182YG	IGP10-.31E			
		D0182YH	IGP10-.31F			
		D0182VQ	IGP10-.31C..-G			
		D0182VR	IGP10-.31D..-G			
		D0182VS	IGP10-.31E..-G			
		D0182VT	IGP10-.31F..-G			
		D0179FT	IGP10-.31C..-V1			
		D0179FU	IGP10-.31D..-V1			
		D0179FV	IGP10-.31E..-V1			
		D0179FW	IGP10-.31F..-V1			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	13 Also see Figure)	Below	Flameproof Transmitter Sensor Assembly (Reference Model Code)	0	1	1
		D0179QA	IAP10-.52C			
		D0179QB	IAP10-.52D			
		D0179QC	IAP10-.52E			
		D0179UH	IAP10-.52C..-G			
		D0179UJ	IAP10-.52D..-G			
		D0179UK	IAP10-.52E..-G			
		D0179WP	IAP10-.52C..-V1			
		D0179WQ	IAP10-.52D..-V1			
		D0179WR	IAP10-.52E..-V1			
		D0179QD	IAP10-.53C			
		D0179QE	IAP10-.53D			
		D0179QF	IAP10-.53E			
		D0179UL	IAP10-.53C..-G			
		D0179UM	IAP10-.53D..-G			
		D0179UN	IAP10-.53E..-G			
		D0179WS	IAP10-.53C..-V1			
		D0179WT	IAP10-.53D..-V1			
		D0179WU	IAP10-.53E..-V1			
		D0179QZ	IAP10-.60C			
		D0179RA	IAP10-.60D			
		D0179RB	IAP10-.60E			
		D0179UP	IAP10-.60C..-G			
		D0179UG	IAP10-.60D..-G			
		D0179UR	IAP10-.60E..-G			
		D0179WV	IAP10-.60C..-V1			
		D0179WW	IAP10-.60D..-V1			
		D0179WX	IAP10-.60E..-V1			
		D0179RC	IAP10-.61C			
		D0179RD	IAP10-.61D			
		D0179RE	IAP10-.61E			
		D0179US	IAP10-.61C..-G			
		D0179UT	IAP10-.61D..-G			
		D0179UU	IAP10-.61E..-G			
		D0179WY	IAP10-.61C..-V1			
		D0179WZ	IAP10-.61D..-V1			
		D0179XJ	IAP10-.61E..-V1			
		D0179RF	IAP10-.62C			
		D0179RG	IAP10-.62D			
		D0179RH	IAP10-.62E			
		D0179RJ	IAP10-.63C			
		D0179RK	IAP10-.63D			
		D0179RL	IAP10-.63E			
Figure 1	13 Also see Figure 3)	Below	Flameproof Transmitter Sensor Assembly (Cont.) (Reference Model Code)	0	1	1
		D0179PA	IGP10-.52C			
		D0179PB	IGP10-.52D			
		D0179PC	IGP10-.52E			
		D0179PD	IGP10-.52F			
		D0179TB	IGP10-.52C..-G			
		D0179TC	IGP10-.52D..-G			
		D0179TD	IGP10-.52E..-G			
		D0179TE	IGP10-.52F..-G			
		D0179VR	IGP10-.52C..-V1			
		D0179VS	IGP10-.52D..-V1			
		D0179VT	IGP10-.52E..-V1			
		D0179VU	IGP10-.52F..-V1			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
		D0179PE D0179PF D0179PG D0179PH D0179TF D0179TG D0179TH D0179TJ D0179VV D0179VW D0179VX D0179VY	IGP10-.53C IGP10-.53D IGP10-.53E IGP20-.53F IGP10-.53C..-G IGP10-.53D..-G IGP10-.53E..-G IGP10-.53F..-G IGP10-.53C..-V1 IGP10-.53D..-V1 IGP10-.53E..-V1 IGP10-.53F..-V1			
		D0179NM D0179NN D0179NP D0179NQ D0179TK D0179TL D0179TM D0179TN D0179VZ D0179WA D0179WB D0179WC	IAP10-.60C IAP10-.60D IAP10-.60E IAP10-.60F IAP10-.60C..-G IAP10-.60D..-G IAP10-.60E..-G IAP10-.60F..-G IAP10-.60C..-V1 IAP10-.60D..-V1 IAP10-.60E..-V1 IAP10-.60F..-V1			
Figure 1	13 Also see Figure 3)	Below D0179NR D0179NS D0179NT D0179NU D0179TP D0179TQ D0179TR D0179TS D0179WD D0179WE D0179WF D0179WG	Flameproof Transmitter Sensor Assembly (Cont.) (Reference Model Code) IAP10-.61C IAP10-.61D IAP10-.61E IAP10-.61F IAP10-.61C..-G IAP10-.61D..-G IAP10-.61E..-G IAP10-.61F..-G IAP10-.61C..-V1 IAP10-.61D..-V1 IAP10-.61E..-V1 IAP10-.61F..-V1	0	1	1
		D0179NV D0179NW D0179NX D0179NY	IAP10-.62C IAP10-.62D IAP10-.62E IAP10-.62F			
		D0179PK D0179PL D0179PM D0179PN	IAP10-.63C IAP10-.63D IAP10-.63E IAP10-.63F			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 4)	Below	IAP10 Pulp/Paper Transmitter Sensor Ass'y (Reference Model Code)	0	1	1
		N1214LE	IAP10-.PAC			
		N1214RT	IAP10-.PBC			
		N1214MK	IAP10-.PCC			
		N1214KZ	IAP10-.PDC			
		N1214SD	IAP10-.PEC			
		N1214RY	IAP10-.PFC			
		N1214SJ	IAP10-.PGC			
		N1214SP	IAP10-.PHC			
		N1216AA	IAP10-.PJC			
		N1214LF	IAP10-.PAD			
		N1214RU	IAP10-.PBD			
		N1214ML	IAP10-.PCD			
		N1214LA	IAP10-.PDD			
		N1214SE	IAP10-.PED			
		N1214RZ	IAP10-.PFD			
		N1214SK	IAP10-.PGD			
		N1214SQ	IAP10-.PHD			
		N1216AB	IAP10-.PJD			
Figure 1	12 (Also see Figure 4)	Below	IGP10 Pulp/Paper Transmitter Sensor Ass'y (Reference Model Code)	0	1	1
		D0186RR	IGP10-.PAC			
		D0186RS	IGP10-.PAD			
		D0186RU	IGP10-.PBC			
		D0186RV	IGP10-.PBD			
		D0186RX	IGP10-.PCB			
		D0186RY	IGP10-.PCC			
		D0186RZ	IGP10-.PCD			
		D0186SB	IGP10-.PDB			
		D0186SC	IGP10-.PDC			
		D0186SD	IGP10-.PDD			
		D0186SF	IGP10-.PEC			
		D0186SG	IGP10-.PED			
		D0186SJ	IGP10-.PFC			
		D0186SK	IGP10-.PFD			
		D0186SM	IGP10-.PGB			
		D0186SN	IGP10-.PGC			
		D0186SP	IGP10-.PGD			
		D0186SR	IGP10-.PHB			
		D0186SS	IGP10-.PHC			
		D0186ST	IGP10-.PHD			
		D0186SV	IGP10-.PJB			
		D0186SW	IGP10-.PJC			
		D0186SX	IGP10-.PJD			

RECOMMENDED SPARE PARTS SUMMARY

PL 009-006

Page 43

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 4)	Below	IAP10 Sanitary Transmitter Sensor Assembly (Reference Model Code)	0	1	1
		D0182ZC D0182ZD N1212FF N1212FG D0182ZE D0182ZF D0182ZG D0182ZH D0182ZJ D0182ZK D0182ZL D0182ZM D0182ZN D0182ZP D0182ZQ D0182ZR D0182ZS D0182ZT	IAP10-.TAC IAP10-.TAD IAP10-.T2C IAP10-.T2D IAP10-.T3C IAP10-.T3D IAP10-.TBC IAP10-.TBD IAP10-.T4C IAP10-.T4D IAP10-.T5C IAP10-.T5D IAP10-.M1C IAP10-.M1D IAP10-.M6C IAP10-.M6D IAP10-.M9C IAP10-.M9D SEAL SURFACE FINISH IS 32 Ra			
Figure 1	12 (Also see Figure 4)	Below	IAP10 Sanitary Transmitter Sensor Assembly (Reference Model Code)	0	1	1
		D0197KN D0197KP D0197KQ D0197KR D0197KS D0197KT D0197KU D0197KV D0197KW D0197KX D0197KY D0197KZ D0197LA D0197LB D0197LC D0197LD D0197LE D0197LF	IAP10-.TAC..-F1 IAP10-.TAD..-F1 IAP10-.T2C..-F1 IAP10-.T2D..-F1 IAP10-.T3C..-F1 IAP10-.T3D..-F1 IAP10-.TBC..-F1 IAP10-.TBD..-F1 IAP10-.T4C..-F1 IAP10-.T4D..-F1 IAP10-.T5C..-F1 IAP10-.T5D..-F1 IAP10-.M1C..-F1 IAP10-.M1D..-F1 IAP10-.M6C..-F1 IAP10-.M6D..-F1 IAP10-.M9C..-F1 IAP10-.M9D..-F1 SEAL SURFACE FINISH IS 15 Ra			

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 4)	Below D0186DP D0186QA D0186QB D0186QC D0186QD D0186QE D0186QF D0186QG D0186QH D0186QJ D0186QK D0186QL D0186QM D0186QN D0186QP D0186QQ D0186QR D0186QS D0186QT D0186QU D0186QV D0186QW D0186QY D0186QX D0186QZ D0186RA D0186RB D0186RC D0186RD D0186RE D0186RF D0186RG D0186RH	IGP10 Sanitary Transmitter Sensor Assembly (Reference Model Code) IGP10-.TAB IGP10-.TAC IGP10-.TAD IGP10-.TAE IGP10-.T2B IGP10-.T2C IGP10-.T2D IGP10-.T2E IGP10-.T3B IGP10-.T3C IGP10-.T3D IGP10-.T3E IGP10-.TBB IGP10-.TBC IGP10-.TBD IGP10-.TBE IGP10-.T4B IGP10-.T4C IGP10-.T4D IGP10-.T4E IGP10-.T5B IGP10-.T5C IGP10-.T5D IGP10-.T5E IGP10-.M1B IGP10-.M1C IGP10-.M1D IGP10-.M6B IGP10-.M6C IGP10-.M6D IGP10-.M9B IGP10-.M9C IGP10-.M9D	0	1	1
Figure 2	1	Below X0201LY X0144KW	O-Ring, Housing Neck Standard For use with CSA Certifications only.	1	2	4
Figure 3	1	Below X0201LY X0144KW	O-Ring, Housing Neck Standard For use with CSA Certifications only.	1	2	4

SEAL
SURFACE
FINISH
IS
32 Ra

RECOMMENDED SPARE PARTS SUMMARY

Figure Number	Item Number	Part Number	Part Name	Number of Parts Recommended for		
				1 Inst.	5 Inst.	20 Inst.
Figure 1	12 (Also see Figure 4)	Below	IGP10 Sanitary Transmitter Sensor Assembly (Reference Model Code)	0	1	1
		D0197JD	IGP10-.TAB..-F1			
		D0197JE	IGP10-.TAC..-F1			
		D0197JF	IGP10-.TAD..-F1			
		D0197JG	IGP10-.TAE..-F1			
		D0197JH	IGP10-.T2B..-F1			
		D0197JJ	IGP10-.T2C..-F1			
		D0197JK	IGP10-.T2D..-F1			
		D0197JL	IGP10-.T2E..-F1			
		D0197JM	IGP10-.T3B..-F1			
		D0197JN	IGP10-.T3C..-F1			
		D0197JP	IGP10-.T3D..-F1			
		D0197JQ	IGP10-.T3E..-F1			
		D0197JR	IGP10-.TBB..-F1			
		D0197JS	IGP10-.TBC..-F1			
		D0197JT	IGP10-.TBD..-F1			
		D0197JU	IGP10-.TBE..-F1			
		D0197JV	IGP10-.T4B..-F1			
		D0197JW	IGP10-.T4C..-F1			
		D0197JX	IGP10-.T4D..-F1			
		D0197JY	IGP10-.T4E..-F1			
		D0197JZ	IGP10-.T5B..-F1			
		D0197KA	IGP10-.T5C..-F1			
		D0197KB	IGP10-.T5D..-F1			
		D0197KC	IGP10-.T5E..-F1			
		D0197KD	IGP10-.M1B..-F1			
		D0197KE	IGP10-.M1C..-F1			
		D0197KF	IGP10-.M1D..-F1			
		D0197KG	IGP10-.M6B..-F1			
		D0197KH	IGP10-.M6C..-F1			
		D0197KJ	IGP10-.M6D..-F1			
		D0197KK	IGP10-.M9B..-F1			
		D0197KL	IGP10-.M9C..-F1			
		D0197KM	IGP10-.M9D..-F1			
Figure 5	2	D0162LQ	LCD Indicator Module	0	1	1
Figure 14	1	D0186DR	Plug, Membrane Breather (a)	0	2	4
Figure 16	1	D0186DR	Plug, Membrane Breather (a)	0	2	4
Figure 18	7	D0197FP	SIL Kit for SIL-Certified HART Transmitters	0	1	1

a. Breather plugs are only used with IGP10 Transmitter Electronics Housings (except Structure Code E) having sanitary or pulp/paper process connections. Refer to CAUTION, described with Figure 4, IGP10 replacement sensor assemblies.

