### I/A Series<sup>®</sup> Electronic Pressure Transmitters

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

\*Parts preceded by an asterisk are recommended spare parts.
Give Instrument Model Number and Style when ordering.
See Recommended Spare Parts Summary section for quantities.

TO ORDER PARTS, CALL INVENSYS SYSTEMS INC. AT 1-866-746-6477.



#### — NOTE -

- 1. For Transmitter Assembly Topworks, refer to Figure 1.
- 2. For Transmitter Replacement Sensor Assemblies (not flameproof), refer to Figure 2.
- 3. For Flameproof Transmitter Replacement Sensor Assemblies, refer to Figure 3.
- 4. For Sanitary and Pulp/Paper Transmitter Replacement Sensor Assemblies, refer to Figure 4.
- 5. For Optional LCD Indicator Assembly, refer to Figure 5.
- 6. For Optional Custody Transfer Lock and Seal, refer to Figure 6.
- 7. For Optional Metric Process Connection, refer to Figure 7.
- 8. For Optional Block and Bleed Valve, refer to Figure 8.
- 9. For Optional Vent Screw, refer to Figure 9.
- 10. For Optional Conduit Connections, refer to Figure 10.
- 11. For Optional Pipe Mounting Sets used with Standard Transmitters, refer to Figure 11.
- 12. For Optional Pipe Mounting Sets used with Flameproof Transmitters, refer to Figure 12.
- 13. For Pressure Seals used with IAP10 and IGP10 Transmitters, refer to Figure 13.
- 14. For Transmitters with Sanitary Process Connections and Accessories, refer to Figures 14 and 15.
- 15. For Transmitters with Pulp and Paper Process Connections and Accessories, refer to Figures 16 and 17.
- 16. For Optional SIL2 Transmitter for HART Versions, refer to Figure 18.
- 17. For Recommended Spare Parts Summary, refer to table at end of document.

### **MODEL CODE**

		ected Absolute Pres ected Gauge Press			Model IAP10 IGP10
Electronics Versions and Output Signal Intelligent; Digital FoxCom™ and 4 to 20 mA dc, Configurable (Version -D) Intelligent; Digital FOUNDATION Fieldbus - FISCO Compliant (Version -F) Intelligent; Digital HART and 4 to 20 mA (Version -T) Analog; 4 to 20 mA ac, Explosionproof (Version -A) Analog; 1 to 5 V dc, Low Power (Version -V)  Structure Code - Select from one of the following eight groups:					
			eight groups: ulp/paper process connections)		
Process	miy (no seais, c	Sensor	inp/paper process connections)		
Connection	Sensor	Fill Fluid	Connection Type		
316L ss	Co-Ni-Cr	Silicone	1/2 NPT External Thread, 1/4 NPT In		20
316L ss	Co-Ni-Cr	Fluorinert	1/2 NPT External Thread, 1/4 NPT In		21
316L ss	316L ss	Silicone	1/2 NPT External Thread, 1/4 NPT In		22
316L ss 316L ss	316L ss Hastelloy C	Fluorinert Silicone	1/2 NPT External Thread, 1/4 NPT In 1/2 NPT External Thread, 1/4 NPT In		23 30
316L ss	Hastelloy C	Fluorinert	1/2 NPT External Thread, 1/4 NPT In		31
Transmitter F Transmitter F Transmitter F Transmitter F	Prepared for Fox Prepared for Fox Prepared for Fox Prepared for Fox	boro Direct Connect boro Remote Mount boro Remote Mount	t Seals (b) t Seal; Silicone Fill in Sensor (c) t Seal; Fluorinert Fill in Sensor (IGP10 of t Seal; Silicone Fill in Sensor (d) t Seal; Fluorinert Fill in Sensor (IGP10 of		D1 D2 S3 S4
Transmitter F Transmitter F	Prepared for Rer Prepared for Rer	on-Foxboro Seals mote Seal; Silicone I mote Seal; Fluoriner	t Fill in Sensor (f)		SC SD
4. Transmitter w	nth Sanitary Pro Diaphragm	ocess Connections Fill	s (g)	Mounting Parts/	
<u>Material</u>	<u>Material</u>	<u>Fluid</u>	Process Connector	Clamps/Gaskets	
316L ss	316L ss	NEOBEE M-20	1.5-in Tri-Clamp Type, Sanitary (x)	By User	TA
316L ss	316L ss	NEOBEE M-20	2.0-in Tri-Clamp Type, Sanitary (x)	By User	T2
316L ss 316L ss	316L ss Hastelloy C	NEOBEE M-20 NEOBEE M-20	3.0-in Tri-Clamp Type, Sanitary (x) 1.5-in Tri-Clamp Type, Sanitary (x)	By User By User	T3 TB
316L ss	Hastelloy C	NEOBEE M-20	2.0-in Tri-Clamp Type, Sanitary (x)	By User	T4
316L ss	Hastelloy C	NEOBEE M-20	3.0-in Tri-Clamp Type, Sanitary (x)	By User	T5
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 1-in ext. (h)(x)	By Foxboro	M1
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 6-in ext. (h)(x)	By Foxboro	M6
316L ss	316L ss	NEOBEE M-20	Mini Tank Spud Seal, 9-in ext. (h)(x)	By Foxboro	M9
316L ss 316L ss	316L ss	NEOBEE M-20 NEOBEE M-20	1-in Flush-Threaded Spud Type (j)	By Foxboro	PX
316L SS 316L SS	316L ss Hastelloy C	NEOBEE M-20	1.5-in Flush Threaded Spud Type (j) 1-in Flush Threaded Spud Type (j)	By Foxboro By Foxboro	PZ PW
316L ss	Hastelloy C	NEOBEE M-20	1.5-in Flush Threaded Spud Type (j)	By Foxboro	PY
5 Transmitter w	vith Puln and Pa	aper Process Conn	ections (a)	•	
Connection	Diaphragm	Fill	(3)	Mounting Parts/	
<u>Material</u>	<u>Material</u>	<u>Fluid</u>	Connection Type	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 316L ss	Hastelloy C	Silicone Silicone	Sleeve Type, 1-inch nominal Threaded Type, 1-inch nominal	By Foxboro	PE PF
1 0101.55		CHICALIE	inicaucu iyoc. i-liicii lioliillal		
	Hastelloy C			By Foxboro	
316L ss	Hastelloy C	Silicone	Sleeve Type, 1 1/2-inch nominal	By Foxboro	PG
	•				

Model Code continued on next page

### **MODEL CODE (Cont.)**

Description (Con	t.)	MODEL CODE (COIII.)	Model	
Structure Code (	=		<u></u>	
6. Flameproof Ti	ransmitter Only (no			
Process Connection 316L ss 316L ss 316L ss 316L ss Hastelloy C	Sensor Fill 316L ss Silic 316L ss Iner Hastelloy C Silic Hastelloy C Iner Hastelloy C Silic	tone 1/2 NPT External Thread, 1/4 NPT Internal Thread 1/2 NPT External Thread, 1/4 NPT Internal Thread tone 1/2 NPT External Thread, 1/4 NPT Internal Thread	52 53 60 61 62	
Hastelloy C	Hastelloy C Iner	t 1/2 NPT External Thread, 1/4 NPT Internal Thread	63	
7. Flameproof Transmitter Prepared for Foxboro Model Coded Seals (b) Flameproof Transmitter Prepared for Direct Connect Seal; Silicone Fill in Sensor (c) Flameproof Transmitter Prepared for Direct Connect Seal; Inert Fill in Sensor (IGP10 only) (c) Flameproof Transmitter Prepared for Remote Mount Seal; Silicone Fill in Sensor (d) Flameproof Transmitter Prepared for Remote Mount Seal; Inert Fill in Sensor (IGP10 only) (d)				
Flameproof	Transmitter Prepared	for non-Foxboro Seals for Remote Seal; Silicone Fill in Sensor (e) for Remote Seal; Inert Fill in Sensor (f)	SH SJ	
		ssure Units, as Applicable		
<b>kPa</b> 0.87 and 50	<b>inH<sub>2</sub>0</b> 3.5 and 200	<b>mbar</b> 8.7 and 500 (IGP10 only) (k)	В	
MPa	psi	bar or kg/cm <sup>2</sup>		
0.007 and 0.21	1 and 30	0.07 and 2.1	С	
0.07 and 2.1 0.7 and 21	10 and 300 100 and 3000	0.7 and 21 7 and 210 (p)	D E	
14 and 42	2000 and 6000	140 and 420 (IGP10 only) (I)	F	
Conduit Connections and Housing Material  1/2 NPT Connection, Aluminum Housing PG 13.5 Connection, Aluminum Housing (Available with Electrical Safety Codes E, D, M, and N only) 1/2 NPT Connection, 316 ss Housing PG 13.5 Connection, 316 ss Housing (Available with Electrical Safety Codes E, D, M, and N only) M20 Connection, Aluminum Housing M20 Connection, 316 ss Housing				
Electrical Safety				
ATEX intrinsically	safe, II 1 GD, EEx ia l	one 1 (all Electronic Versions) (m) IC, Zone 0; or II 1/2 GD, EEx ib C, Zone 0/1	D E	
	sions D and T only) nsically safe. II 1 G. E	Ex 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)  LIIC, Zone 2 (Electronic Version F only)	N N	
		nd n. See ATEX Codes E and N for details	М	
ATEX multiple cert	sions D and T only) (r tifications, ia and ib, c sions D and T only) (r	, and n. See ATEX Codes D, E, and N for details	Р	
CSA Certifications	(see table below): (n	)	С	
<b>5</b>	_	Electronic Version		
Description Intrinsically	n Safe, Division 1	A D F T V		
FISCO Intri	nsically Safe, Division	n1 X		
	roof, Division 1 Class I, II, III; Divisio	X X X X X   X   X   X   N   N   N   N		
Zone certifi	ed Ex ia IIC and Ex n	A II X X X		
FNICO for (	Class I, II, III; Division	2 X		
CSA Certifications		wtifications of Code C above	В	
гіаттергоот, Ех	a no, includes all ce	rtifications of Code C above.		

### **MODEL CODE (Cont.)**

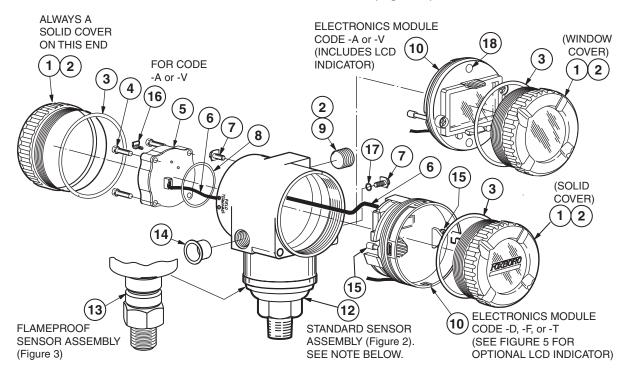
Description (Cont.)							Model
Electrical Safety (Cont.)							
CSA Certifications for IGP10 only (see table below	/): (k)						L
Control of the contro	, , ,	Flaate.	!- \	/a.va!a.		1	_
Description	Α	Electro	F	ersio	ı IV		
Intrinsically Safe, Division 1	Α	X	Г	'	X		
FISCO Intrinsically Safe, Division 1 (*)			Х		^		
Explosionproof, Division 1	Х	X	X	Х	Х		
Suitable for Class I, II, III; Division 2	X	X		X			
Zone certified Ex ia IIC and Ex nA II			Χ	X	Х		
FNICO for Class I, II, III; Division 2			X				
(*) IGP explosionproof rating available with	Snan	I imit C	ode F	only	I	1	
	Opan		-040 =	. Oy.			
FM approvals (see table below): (n)							F
		Electro	onic V	ersio	<u> </u>	1	
Description	Α	D	F	T	V		
Intrinsically Safe, Division 1	1	X		X	X		
FISCO Intrinsically Safe, Division 1			Х				
Explosionproof, Division 1	Х	Х	Х	X	X		
Nonincendive, Class I, II, III; Division 2	Х	Х		Х	Х		
Zone approved AEx ia IIC and AEx nA II			Х	Х	Х		
FNICO for Class I, II, III; Division 2			Х				
FM approvals: (m)		•		•	•		G
Flameproof, AEx d IIC, includes all approvals o	f Code	- E aba					G
Flameproof, AEX a no, includes all approvals o	Code	Frabu	we.				
FM approvals for IGP10 only (see table below): (k)	)						R
approvate to the to only (coo table belon). (ii)							
December 1 and 1 a		Electro		ersior			
Description	Α	D	F	ı	V		
Intrinsically Safe, Division 1		Χ			Χ		
FISCO Intrinsically Safe, Division 1 Explosionproof, Division 1 (*)	Х	Х	X	Х	Х		
Nonincendive, Class I, II, III; Division 2	X	X	^	X	X		
Zone approved AEx ia IIC and AEx nA II	^	^	Χ	X	X		
FNICO for Class I, II, III; Division 2			$\frac{\lambda}{X}$				
	\ <b>!</b>	::					
(*) IGP explosionproof rating available with S	pan L	imit Co	ae 🗀	oniy.			
IECEx Intrinsically Safe; Ex ia IIC (Electronic Versi	ons D	and T	only)				Т
IECEx FISCO, intrinsically safe; Ex ia IIC (Electron							Т
IECEx protection n; Ex nL IIC (Electronic Versions							U
IECEx FNICO, protection n; Ex nL IIC (Electronic							U
IECEx flameproof; Ex d IIC (m)			•				V
1 / ( /							
<b>Optional Selections</b> Refer to descriptions that fo	llow.						
Mounting Bracket Set (q)	NIDT (	0		_		0 1 4 10 10/0	
Painted Steel Bracket with Plated Steel Bolts, 1/2							-M1
Stainless Steel Bracket with Stainless Steel Bolts,							-M2
Painted Steel Bracket with Plated Steel Bolts, PG							-M3
Stainless Steel Bracket with Stainless Steel Bolts,							-M4
Painted Steel Bracket with Plated Steel Bolts, M20							-M5
Stainless Steel Bracket with Stainless Steel Bolts,	M20 (	with Co	onduit	Conn	ection	Codes 5 and 6 only) (r)	-M6
Digital Indicator with Pushbuttons or Solid (Bli	nd) C	over o	ver St	andar	d Indi	cator	
Digital Indicator, Pushbuttons, and Window Cover							-L1
Substitute Solid (Blind) Cover over Standard Indica							-L2
,	۱۱ (L		٧6	,, 5,0118	, , t al	a v omy,	
Vent Screw and Block & Bleed Valve (t)							
316 ss Vent Screw in Process Connection: Not av							-V1
Options -G, -X1, and -X2; Pressure Seals; San	itary a	nd Pul	p/Pap	er Pro	cess C	connections;	
and Hastelloy Structure Codes 62 and 63	-		•				
Block and Bleed Valve, Carbon Steel							-V2
Block and Bleed Valve, 316 ss							-V3
Block and Bleed Valve, 316 ss w/Monel Trim							-V4
	-					Model Code continued on nex	t page

### **MODEL CODE (Cont.)**

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

- (a) 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).
- (b) Both transmitter and pressure seal Model Numbers are required. Refer to PSS 2A-1Z11 A for pressure seal Model Codes.
- (c) Direct Mount Seal Models that may be specified are PSTAD, PSFAD, and PSISD.
- (d) Remote Mount Seal Models that may be specified are PSFPS, PSFES, PSFAR, PSISR, PSSCR, and PSSSR.
- (e) For transmitters with silicone fill prepared for remote seal by others, specify Structure Codes 22 or 52.
- (f) For transmitters with Inert fill prepared for remote seals by others, specify Structure Codes 23 or 53.
- (g) Accessories used with Sanitary and Pulp and Paper Connections are ordered and supplied separately. See ACCESSORIES section.
- (h) Transmitter Codes M1, M6, & M9 are supplied with clamps and gaskets. All spuds are accessories that are specified by part number.
- (j) All spuds (mounting ferrules) are accessories that are specified by part number. All necessary mounting parts and gaskets to attach the transmitter to the spud are supplied with the transmitter.
- (k) Select only for IGP10 Transmitter with Sanitary Process Connection Codes TA to T5, M1, M6, M9, PZ, and PY; also IGP10 Transmitter with Pulp and Paper Process Connections PC, PD, PG, PH, and PJ only.
- (I) Not available with Sanitary or Pulp and Paper Process connections.
- (m) Available with flameproof transmitter Structure Codes 52, 53, D5, D6, S5, S6, SH, and SJ only.
- (n) Not available with flameproof transmitter Structure Codes 52, 53, D5, D6, S5, S6, SH, and SJ.
- (p) IAP10 not available with sanitary or pulp/paper process connections.
  - IGP10 not available with sanitary process connections M1 to M9, PW to PZ; 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.
- (q) 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.
- (r) Mounting Bracket Sets -M1 to -M6 are available with all transmitter structures.
- (s) Option -F1 (15 Ra seal surface finish) is available with Structure Codes TA, TB, T2 to T5, M1, M6, and M9. The standard seal surface finish is 32 Ra.
- (t) Not available with sanitary and pulp/paper process connections.
- (u) Available with Electrical Safety Codes E, D, M, and N only.
- (v) Available with Electrical Safety Code E only.
- (w) Not available with Electronics Version -V or Fluorinert fill in sensor or seal.

### **TRANSMITTER ASSEMBLY (Figure 1)**



Item 1	Part No. Tables 1 and 2	<b>Qty.</b> 2	Part Name Cover, Electronics Housing
2 *3	X0118CC X0201FC	1 2	Grease, Lubriplate (1-3/4 ounce tube) O-Ring, Cover
4	Below X0133UW X0133VP	4	Screw, Terminal Block Assy, 0.138-32 x 0.750 Steel Screw - used with Aluminum Housing 316 ss Screw - used with 316 ss Housing
5	Below D0149YB D0149HN D0149FE	1	Terminal Block Assembly Electronics Versions -A, -D, and -T Electronics Versions -F Electronics Version -V
6 7 8	P0177JE D0162VJ X0144KR	1 2 1	Cable, Power, Replaceable (Versions -F and -V) Screw Assembly, Earth (Ground), 0.164-32 x 0.750 O-Ring
9	Below  B0139CA B0139SK X0178GT D0179FJ D0179FK	1	Pipe Plug for Unused Housing Conduit Connection – see WARNING on next page Pipe Plug, Aluminum, 1/2 NPT; with Housing Code 1 Pipe Plug, 316 ss, 1/2 NPT; with Housing Code 3 Pipe Plug, 316 ss, PG 13.5; with Housing Codes 2 and 4 Pipe Plug, Aluminum, M20; with Housing Code 5 Pipe Plug, 316 ss, M20; with Housing Code 6

### — 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.

### TRANSMITTER ASSEMBLY (Figure 1) (Cont.)

Item	Part No.	Qty.	Part Name
*10	Below D0162VR D0162UU D0162VZ D0162ZP D0162ZX	1	Electronics Module Digital FoxCom and/or 4 to 20 mA (Version -D) Digital FOUNDATION Fieldbus - FISCO compliant (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)
11	-	_	Item 11 is intentionally not used
*12	Below Figure 2 Figure 4	1	Transmitter Replacement Sensor Assembly Standard Transmitter (not flameproof) Sanitary or Pulp/Paper Transmitters
*13	Figure 3	1	Flameproof Transmitter Replacement Sensor Assembly
14	S0102BT	1	Plug, Poly (remove prior to Transmitter Installation)
15	Below D0162VM D0166CY	2	Screw, Captive, Pan Head, 0.138-32 x 0.615 Steel Screw - used with Aluminum Housing 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

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

	Part Numbers for Electronics Housing covers					
Option -L2	Aluminun	n Housing	Stainless Steel Housing			
See Note (a)	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)		

<sup>(</sup>a) Option -L2 replaces the standard window cover (for standard LCD indicator) with a blind solid cover.

Table 2. Housing Covers (Item 1) for Electronics Versions -D, -F, and -T (Digital)

	Part Numbers for Electronics Housing covers					
Option -L1	Aluminum Housing Stainless Steel Housing					
See Note (a)	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)		

<sup>(</sup>a) Option -L1 provides the user with an LCD indicator along with a window cover.

<sup>(</sup>c) Optional window cover with optional LCD indicator.



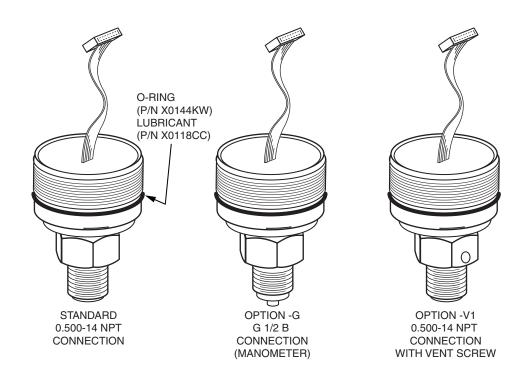
To maintain IP66 (IEC 529) and NEMA 4X protection, unused conduit opening must be closed with a metal plug. In addition, the threaded housing covers must be properly installed.

<sup>(</sup>b) Blind (solid) cover.

<sup>(</sup>c) Standard window cover with standard LCD indicator.

<sup>(</sup>b) Blind (solid) cover.

## TRANSMITTER REPLACEMENT SENSOR ASSEMBLY (Figure 2) (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)



### 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	IGP1020C	0.21 MPa (30 psig)	IAP1020C	D0170EX
D0170EC	IGP1020D	2.1 MPa (300 psig)	IAP1020D	D0170EY
D0170ED	IGP1020E	21 MPa (3000 psig)	IAP1020E	D0170NG
D0175WA	IGP1020F	42 MPa (6000 psig)	N/A	N/A
D0170EH	IGP1020CG	0.21 MPa (30 psig)	IAP1020CG	D0170FD
D0170EJ	IGP1020DG	2.1 MPa (300 psig)	IAP1020DG	D0170FE
D0170EK	IGP1020EG	21 MPa (3000 psig)	IAP1020EG	D0170NJ
D0175WJ	IGP1020FG	42 MPa (6000 psig)	N/A	N/A
D0170EP	IGP1020CV1	0.21 MPa (30 psig)	IAP1020CV1	D0170FK
D0170EQ	IGP1020DV1	2.1 MPa (300 psig)	IAP1020DV1	D0170FL
D0170ER	IGP1020EV1	21 MPa (3000 psig)	IAP1020EV1	D0170NL
D0175WE	IGP1020FV1	42 MPa (6000 psig)	N/A	N/A

# TRANSMITTER REPLACEMENT SENSOR ASSEMBLY (Figure 2) (Cont.) (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)

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

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0170EE	IGP1021C	0.21 MPa (30 psig)	IAP1021C	D0170EZ
D0170EF	IGP1021D	2.1 MPa (300 psig)	IAP1021D	D0170FA
D0170EG	IGP1021E	21 MPa (3000 psig)	IAP1021E	D0170NH
D0175WB	IGP1021F	42 MPa (6000 psig)	N/A	N/A
D0170EL	IGP1021CG	0.21 MPa (30 psig)	IAP1021CG	D0170FF
D0170EM	IGP1021DG	2.1 MPa (300 psig)	IAP1021DG	D0170FG
D0170EN	IGP1021EG	21 MPa (3000 psig)	IAP1021EG	D0170NK
D0175WK	IGP1021FG	42 MPa (6000 psig)	N/A	N/A
D0170ES	IGP1021CV1	0.21 MPa (30 psig)	IAP1021CV1	D0170FM
D0170ET	IGP1021DV1	2.1 MPa (300 psig)	IAP1021DV1	D0170FN
D0170EU	IGP1021EV1	21 MPa (3000 psig)	IAP1021EV1	D0170NM
D0176WF	IGP1021FV1	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	IGP1022C	0.21 MPa (30 psig)	IAP1022C	D0161TD
D0161TB	IGP1022D	2.1 MPa (300 psig)	IAP1022D	D0161TE
D0161TC	IGP1022E	21 MPa (3000 psig)	IAP1022E	D0170NA
D0175WC	IGP1022F	42 MPa (6000 psig)	N/A	N/A
D0161TF	IGP1022CG	0.21 MPa (30 psig)	IAP1022CG	D0161TJ
D0161TG	IGP1022DG	2.1 MPa (300 psig)	IAP1022DG	D0161TK
D0161TH	IGP1022EG	21 MPa (3000 psig)	IAP1022EG	D0170NC
D0175WL	IGP1022FG	42 MPa (6000 psig)	N/A	N/A
D0161UJ	IGP1022CV1	0.21 MPa (30 psig)	IAP1022CV1	D0161UM
D0161UK	IGP1022DV1	2.1 MPa (300 psig)	IAP1022DV1	D0161UN
D0161UL	IGP1022EV1	21 MPa (3000 psig)	IAP1022EV1	D0170NE
D0175WG	IGP1022FV1	42 MPa (6000 psig)	N/A	N/A

### 316L Sensor, Fluorinert Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0161TL	IGP1023C	0.21 MPa (30 psig)	IAP1023C	D0170EV
D0161TM	IGP1023D	2.1 MPa (300 psig)	IAP1023D	D0170EW
D0161TN	IGP1023E	21 MPa (3000 psig)	IAP1023E	D0170NB
D0175WD	IGP2023F	42 MPa (6000 psig)	N/A	N/A
D0161TP	IGP1023CG	0.21 MPa (30 psig)	IAP1023CG	D0170FB
D0161TQ	IGP1023DG	2.1 MPa (300 psig)	IAP1023DG	D0170FC
D0161TR	IGP1023EG	21 MPa (3000 psig)	IAP1023EG	D0170ND
D0175WM	IGP1023FG	42 MPa (6000 psig)	N/A	N/A
D0161UP	IGP1023CV1	0.21 MPa (30 psig)	IAP1023CV1	D0170FH
D0161UQ	IGP1023DV1	2.1 MPa (300 psig)	IAP1023DV1	D0170FJ
D0161UR	IGP1023EV1	21 MPa (3000 psig)	IAP1023EV1	D0170NF
D0175WH	IGP1023FV1	42 MPa (6000 psig)	N/A	N/A

# TRANSMITTER REPLACEMENT SENSOR ASSEMBLY (Figure 2) (Cont.) (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)

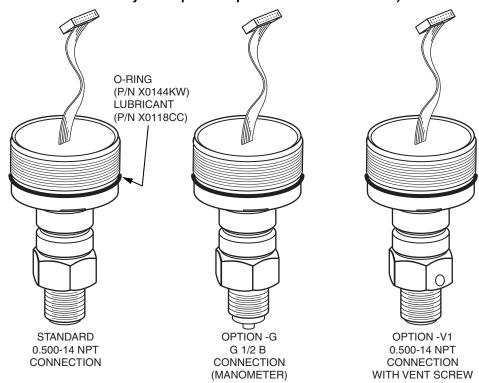
### Hastelloy C Sensor, Silicone Oil Fill, 316 ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0182YA	IGP1030C	0.21 MPa (30 psig)	IAP1030C	D0182XA
D0182YB	IGP1030D	2.1 MPa (300 psig)	IAP1030D	D0182XB
D0182YC	IGP1030E	21 MPa (3000 psig)	IAP1030E	D0182XC
D0182YD	IGP1030F	42 MPa (6000 psig)	N/A	N/A
D0182VL	IGP1030CG	0.21 MPa (30 psig)	IAP1030CG	D0182VU
D0182VM	IGP1030DG	2.1 MPa (300 psig)	IAP1030DG	D0182VV
D0182VN	IGP1030EG	21 MPa (3000 psig)	IAP1030EG	D0182VW
D0182VP	IGP1030FG	42 MPa (6000 psig)	N/A	N/A
D0179FL	IGP1030CV1	0.21 MPa (30 psig)	IAP1030CV1	D0179FX
D0179FQ	IGP1030DV1	2.1 MPa (300 psig)	IAP1030DV1	D0179FY
D0179FR	IGP1030EV1	21 MPa (3000 psig)	IAP1030EV1	D0179FZ
D0179FS	IGP1030FV1	42 MPa (6000 psig)	N/A	N/A

### Hastelloy C Sensor, Fluorinert Oil Fill, 316 ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0182YE	IGP1031C	0.21 MPa (30 psig)	IAP1031C	D0182XE
D0182YF	IGP1031D	2.1 MPa (300 psig)	IAP1031D	D0182XF
D0182YG	IGP1031E	21 MPa (3000 psig)	IAP1031E	D0182XG
D0182YH	IGP1031F	42 MPa (6000 psig)	N/A	N/A
D0182VQ	IGP1031CG	0.21 MPa (30 psig)	IAP1031CG	D0182VX
D0182VR	IGP1031DG	2.1 MPa (300 psig)	IAP1031DG	D0182VY
D0182VS	IGP1031EG	21 MPa (3000 psig)	IAP1031EG	D0182VZ
D0182VT	IGP1031FG	42 MPa (6000 psig)	N/A	N/A
D0179FT	IGP1031CV1	0.21 MPa (30 psig)	IAP1031CV1	D0179GX
D0179FU	IGP1031DV1	2.1 MPa (300 psig)	IAP1031DV1	D0179GY
D0179FV	IGP1031EV1	21 MPa (3000 psig)	IAP1031EV1	D0179GZ
D0179FW	IGP1031FV1	42 MPa (6000 psig)	N/A	N/A

## FLAMEPROOF TRANSMITTER REPLACEMENT SENSOR ASSEMBLY (Figure 3) 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)



### 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	IGP1052C	0.21 MPa (30 psig)	IAP1052C	D0179QA
D0179PB	IGP1052D	2.1 MPa (300 psig)	IAP1052D	D0179QB
D0179PC	IGP1052E	21 MPa (3000 psig)	IAP1052E	D0179QC
D0179PD	IGP1052F	42 MPa (6000 psig)	N/A	N/A
D0179TB	IGP1052CG	0.21 MPa (30 psig)	IAP1052CG	D0179UH
D0179TC	IGP1052DG	2.1 MPa (300 psig)	IAP1052DG	D0179UJ
D0179TD	IGP1052EG	21 MPa (3000 psig)	IAP1052EG	D0179UK
D0179TE	IGP1052FG	42 MPa (6000 psig)	N/A	N/A
D0179VR	IGP1052CV1	0.21 MPa (30 psig)	IAP1052CV1	D0179WP
D0179VS	IGP1052DV1	2.1 MPa (300 psig)	IAP1052DV1	D0179WQ
D0179VT	IGP1052EV1	21 MPa (3000 psig)	IAP1052EV1	D0179WR
D0179VU	IGP1052FV1	42 MPa (6000 psig)	N/A	N/A

### 316L Sensor, Fluorinert Oil Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179PE	IGP1053C	0.21 MPa (30 psig)	IAP1053C	D0179QD
D0179PF	IGP1053D	2.1 MPa (300 psig)	IAP1053D	D0179QE
D0179PG	IGP1053E	21 MPa (3000 psig)	IAP1053E	D0179QF
D0179PH	IGP2053F	42 MPa (6000 psig)	N/A	N/A
D0179TF	IGP1053CG	0.21 MPa (30 psig)	IAP1053CG	D0179UL
D0179TG	IGP1053DG	2.1 MPa (300 psig)	IAP1053DG	D0179UM
D0179TH	IGP1053EG	21 MPa (3000 psig)	IAP1053EG	D0179UN
D0179TJ	IGP1053FG	42 MPa (6000 psig)	N/A	N/A
D0179VV	IGP1053CV1	0.21 MPa (30 psig)	IAP1053CV1	D0179WS
D0179VW	IGP1053DV1	2.1 MPa (300 psig)	IAP1053DV1	D0179WT
D0179VX	IGP1053EV1	21 MPa (3000 psig)	IAP1053EV1	D0179WU
D0179VY	IGP1053FV1	42 MPa (6000 psig)	N/A	N/A

## FLAMEPROOF TRANSMITTER REPLACEMENT SENSOR ASSEMBLY (Figure 3) (Cont.) 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)

### Hastelloy C Sensor, Silicone Fill, 316L ss Process Connection

Part No.	Reference Model		Reference Model	
(IGP10)	Code (IGP10)	Maximum Span	Code (IAP10)	(IAP10)
D0179NM	IGP1060C	0.21 MPa (30 psig)	IAP1060C	D0179QZ
D0179NN	IGP1060D	2.1 MPa (300 psig)	IAP1060D	D0179RA
D0179NP	IGP1060E	21 MPa (3000 psig)	IAP1060E	D0179RB
D0179NQ	IGP2060F	42 MPa (6000 psig)	N/A	N/A
D0179TK	IGP1060CG	0.21 MPa (30 psig)	IAP1060CG	D0179UP
D0179TL	IGP1060DG	2.1 MPa (300 psig)	IAP1060DG	D0179UQ
D0179TM	IGP1060EG	21 MPa (3000 psig)	IAP1060EG	D0179UR
D0179TN	IGP1060FG	42 MPa (6000 psig)	N/A	N/A
D0179VZ	IGP1060CV1	0.21 MPa (30 psig)	IAP1060CV1	D0179WV
D0179WA	IGP1060DV1	2.1 MPa (300 psig)	IAP1060DV1	D0179WW
D0179WB	IGP1060EV1	21 MPa (3000 psig)	IAP1060EV1	D0179WX
D0179WC	IGP1060FV1	42 MPa (6000 psig)	N/A	N/A

### Hastelloy C Sensor, Fluorinert Fill, 316L ss Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179NR	IGP1061C	0.21 MPa (30 psig)	IAP1061C	D0179RC
D0179NS	IGP1061D	2.1 MPa (300 psig)	IAP1061D	D0179RD
D0179NT	IGP1061E	21 MPa (3000 psig)	IAP1061E	D0179RE
D0179NU	IGP2061F	42 MPa (6000 psig)	N/A	N/A
D0179TP	IGP1061CG	0.21 MPa (30 psig)	IAP1061CG	D0179US
D0179TQ	IGP1061DG	2.1 MPa (300 psig)	IAP1061DG	D0179UT
D0179TR	IGP1061EG	21 MPa (3000 psig)	IAP1061EG	D0179UU
D0179TS	IGP1061FG	42 MPa (6000 psig)	N/A	N/A
D0179WD	IGP1061CV1	0.21 MPa (30 psig)	IAP1061CV1	D0179WY
D0179WE	IGP1061DV1	2.1 MPa (300 psig)	IAP1061DV1	D0179WZ
D0179WF	IGP1061EV1	21 MPa (3000 psig)	IAP1061EV1	D0179XJ
D0179WG	IGP1061FV1	42 MPa (6000 psig)	N/A	N/A

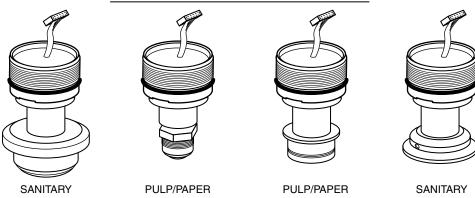
### Hastelloy C Sensor, Silicone Fill, Hastelloy C Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179NV	IGP1062C	0.21 MPa (30 psig)	IAP1062C	D0179RF
D0179NW	IGP1062D	2.1 MPa (300 psig)	IAP1062D	D0179RG
D0179NX	IGP1062E	21 MPa (3000 psig)	IAP1062E	D0179RH
D0179NY	IGP2062F	42 MPa (6000 psig)	N/A	N/A

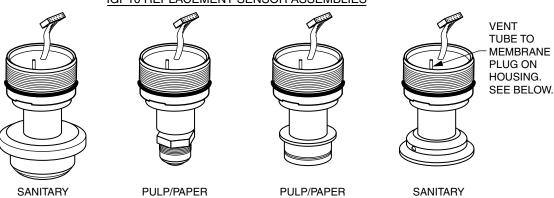
#### Hastelloy C Sensor, Fluorinert Fill, Hastelloy C Process Connection

Part No. (IGP10)	Reference Model Code (IGP10)	Maximum Span	Reference Model Code (IAP10)	Part No. (IAP10)
D0179PK	IGP1063C	0.21 MPa (30 psig)	IAP1063C	D0179RJ
D0179PL	IGP1063D	2.1 MPa (300 psig)	IAP1063D	D0179RK
D0179PM	IGP1063E	21 MPa (3000 psig)	IAP1063E	D0179RL
D0179PN	IGP2063F	42 MPa (6000 psig)	N/A	N/A

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
В	TA, TB, T2 to T5, M1, M6,	PC, PD, PG, PH,	Used with Sanitary Transmitters
	M9, PZ, and PY only	and PJ only	only.
С	All Sanitary	All Pulp/Paper	Used with Sanitary and Pulp/Paper
	Structure Codes	Structure Codes	Transmitters.
D	All Sanitary	All Pulp/Paper	Used with Sanitary and Pulp/Paper
	Structure Codes	Structure Codes	Transmitters.
Е	TA, TB, and T2 to T5 only	Not available	Vent Tube not required; no breather
	(b)		plug in housing.

<sup>(</sup>a) Also refer to Model Code section.

#### — 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.

<sup>(</sup>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.

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
IAP10PAC	N1214LE	316L ss	0.21 MPa (30 psia)
IAP10PBC	N1214RT	316L ss	0.21 MPa (30 psia)
IAP10PCC	N1214MK	316L ss	0.21 MPa (30 psia)
IAP10PDC	N1214KZ	316L ss	0.21 MPa (30 psia)
IAP10PEC	N1214SD	Hastelloy C	0.21 MPa (30 psia)
IAP10PFC	N1214RY	Hastelloy C	0.21 MPa (30 psia)
IAP10PGC	N1214SJ	Hastelloy C	0.21 MPa (30 psia)
IAP10PHC	N1214SP	Hastelloy C	0.21 MPa (30 psia)
IAP10PJC	N1216AA	Hastelloy C	0.21 MPa (30 psia)
IAP10PAD	N1214LF	316L ss	2.1 MPa (300 psia
IAP10PBD	N1214RU	316L ss	2.1 MPa (300 psia
IAP10PCD	N1214ML	316L ss	2.1 MPa (300 psia
IAP10PDD	N1214LA	316L ss	2.1 MPa (300 psia
IAP10PED	N1214SE	Hastelloy C	2.1 MPa (300 psia
IAP10PFD	N1214RZ	Hastelloy C	2.1 MPa (300 psia
IAP10PGD	N1214SK	Hastelloy C	2.1 MPa (300 psia
IAP10PHD	N1214SQ	Hastelloy C	2.1 MPa (300 psia
IAP10PJD	N1216AB	Hastelloy C	2.1 MPa (300 psia

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
IGP10PAC	D0186RR	316L ss	0.21 MPa (30 psia)
IGP10PAD	D0186RS	316L ss	2.1 MPa (300 psia
IGP10PBC	D0186RU	316L ss	0.21 MPa (30 psia)
IGP10PBD	D0186RV	316L ss	2.1 MPa (300 psia
IGP10PCB	D0186RX	316L ss	0.21 MPa (30 psia)
IGP10PCC	D0186RY	316L ss	2.1 MPa (300 psia
IGP10PCD	D0186RZ	316L ss	0.21 MPa (30 psia)
IGP10PDB	D0186SB	316L ss	2.1 MPa (300 psia
IGP10PDC	D0186SC	316L ss	0.21 MPa (30 psia)
IGP10PDD	D0186SD	316L ss	2.1 MPa (300 psia
IGP10PEC	D0186SF	Hastelloy C	0.21 MPa (30 psia)
IGP10PED	D0186SG	Hastelloy C	2.1 MPa (300 psia
IGP10PFC	D0186SJ	Hastelloy C	0.21 MPa (30 psia)
IGP10PFD	D0186SK	Hastelloy C	2.1 MPa (300 psia
IGP10PGB	D0186SM	Hastelloy C	0.21 MPa (30 psia)
IGP10PGC	D0186SN	Hastelloy C	2.1 MPa (300 psia
IGP10PGD	D0186SP	Hastelloy C	0.21 MPa (30 psia)
IGP10PHB	D0186SR	Hastelloy C	2.1 MPa (300 psia
IGP10PHC	D0186SS	Hastelloy C	0.21 MPa (30 psia)
IGP10PHD	D0186ST	Hastelloy C	2.1 MPa (300 psia
IGP10PJB	D0186SV	Hastelloy C	0.21 MPa (30 psia)
IGP10PJC	D0186SW	Hastelloy C	2.1 MPa (300 psia
IGP10PJD	D0186SX	Hastelloy C	0.21 MPa (30 psia)

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
IAP10TAC	D0182ZC	316L ss	0.21 MPa (30 psia)
IAP10TAD	D0182ZD	316L ss	2.1 MPa (300 psia
IAP10T2C	N1212FF	316L ss	0.21 MPa (30 psia)
IAP10T2D	N1212FG	316L ss	2.1 MPa (300 psia
IAP10T3C	D0182ZE	316L ss	0.21 MPa (30 psia)
IAP10T3D	D0182ZF	316L ss	2.1 MPa (300 psia
IAP10TBC	D0182ZG	Hastelloy C	0.21 MPa (30 psia)
IAP10TBD	D0182ZH	Hastelloy C	2.1 MPa (300 psia
IAP10T4C	D0182ZJ	Hastelloy C	0.21 MPa (30 psia)
IAP10T4D	D0182ZK	Hastelloy C	2.1 MPa (300 psia
IAP10T5C	D0182ZL	Hastelloy C	0.21 MPa (30 psia)
IAP10T5D	D0182ZM	Hastelloy C	2.1 MPa (300 psia
IAP10M1C	D0182ZN	316L ss	0.21 MPa (30 psia)
IAP10M1D	D0182ZP	316L ss	2.1 MPa (300 psia
IAP10M6C	D0182ZQ	316L ss	0.21 MPa (30 psia)
IAP10M6D	D0182ZR	316L ss	2.1 MPa (300 psia
IAP10M9C	D0182ZS	316L ss	0.21 MPa (30 psia)
IAP10M9D	D0182ZT	316L ss	2.1 MPa (300 psia
IAP10PXC	D0182ZU	316L ss	0.21 MPa (30 psia)
IAP10PXD	D0182ZV	316L ss	2.1 MPa (300 psia
IAP10PZC	D0182ZW	316L ss	0.21 MPa (30 psia)
IAP10PZD	D0182ZD	316L ss	2.1 MPa (300 psia
IAP10PWC	D0186VC	Hastelloy C	0.21 MPa (30 psia)
IAP10PWD	D0186VD	Hastelloy C	2.1 MPa (300 psia
IAP10PYC	D0186VE	Hastelloy C	0.21 MPa (30 psia)
IAP10PYD	D0186VF	Hastelloy C	2.1 MPa (300 psia

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
IAP10TACF1	IAP10TACF1 D0197KN		0.21 MPa (30 psia)
IAP10TADF1	D0197KP	316L ss	2.1 MPa (300 psia
IAP10T2CF1	D0197KQ	316L ss	0.21 MPa (30 psia)
IAP10T2DF1	D0197KR	316L ss	2.1 MPa (300 psia
IAP10T3CF1	D0197KS	316L ss	0.21 MPa (30 psia)
IAP10T3DF1	D0197KT	316L ss	2.1 MPa (300 psia
IAP10TBCF1	D0197KU	Hastelloy C	0.21 MPa (30 psia)
IAP10TBDF1	D0197KV	Hastelloy C	2.1 MPa (300 psia
IAP10T4CF1	D0197KW	Hastelloy C	0.21 MPa (30 psia)
IAP10T4DF1	D0197KX	Hastelloy C	2.1 MPa (300 psia
IAP10T5CF1	D0197KY	Hastelloy C	0.21 MPa (30 psia)
IAP10T5DF1	D0197KZ	Hastelloy C	2.1 MPa (300 psia
IAP10M1CF1	D0197LA	316L ss	0.21 MPa (30 psia)
IAP10M1DF1	D0197LB	316L ss	2.1 MPa (300 psia
IAP10M6CF1	D0197LC	316L ss	0.21 MPa (30 psia)
IAP10M6DF1	D0197LD	316L ss	2.1 MPa (300 psia
IAP10M9CF1	D0197LE	316L ss	0.21 MPa (30 psia)
IAP10M9DF1	D0197LF	316L ss	2.1 MPa (300 psia

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
IGP10TAB	D0186DP	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10TAC	D0186QA	316L ss	0.21 MPa (30 psig)
IGP10TAD	D0186QB	316L ss	2.1 MPa (300 psig)
IGP10TAE	D0186QC	316L ss	4.2 MPa (600 psig)
IGP10T2B	D0186QD	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10T2C	D0186QE	316L ss	0.21 MPa (30 psig)
IGP10T2D	D0186QF	316L ss	2.1 MPa (300 psig)
IGP10T2E	D0186QG	316L ss	4.2 MPa (600 psig)
IGP10T3B	D0186QH	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10T3C	D0186QJ	316L ss	0.21 MPa (30 psig)
IGP10T3D	D0186QK	316L ss	2.1 MPa (300 psig)
IGP10T3E	D0186QL	316L ss	4.2 MPa (600 psig)
IGP10TBB	D0186QM	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10TBC	D0186QN	Hastelloy C	0.21 MPa (30 psig)
IGP10TBD	D0186QP	Hastelloy C	2.1 MPa (300 psig)
IGP10TBE	D0186QQ	Hastelloy C	4.2 MPa (600 psig)
IGP10T4B	D0186QR	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10T4C	D0186QS	Hastelloy C	0.21 MPa (30 psig)
IGP10T4D	D0186QT	Hastelloy C	2.1 MPa (300 psig)
IGP10T4E	D0186QU	Hastelloy C	4.2 MPa (600 psig)
IGP10T5B	D0186QV	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10T5C	D0186QW	Hastelloy C	0.21 MPa (30 psig)
IGP10T5D	D0186QX	Hastelloy C	2.1 MPa (300 psig)
IGP10T5E	D0186QY	Hastelloy C	4.2 MPa (600 psig)
IGP10M1B	D0186QZ	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M1C	D0186RA	316L ss	0.21 MPa (30 psig)
IGP10M1D	D0186RB	316L ss	2.1 MPa (300 psig)
IGP10M6B	D0186RC	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M6C	D0186RD	316L ss	0.21 MPa (30 psig)
IGP10M6D	D0186RE	316L ss	2.1 MPa (300 psig)
IGP10M9B	D0186RF	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M9C	D0186RG	316L ss	0.21 MPa (30 psig)
IGP10M9D	D0186RH	316L ss	2.1 MPa (300 psig)
IGP10PXC	D0186RJ	316L ss	0.21 MPa (30 psig)
IGP10PXD	D0186RK	316L ss	2.1 MPa (300 psig)
IGP10PZB	D0186RM	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10PZC	D0186RN	316L ss	0.21 MPa (30 psig)
IGP10PZD	D0186RP	316L ss	2.1 MPa (300 psig)
IGP10PWC	D0186UR	Hastelloy C	0.21 MPa (30 psig)
IGP10PWD	D0186US	Hastelloy C	2.1 MPa (300 psig)
IGP10PYB	D0186UU	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10PYC	D0186UV	Hastelloy C	0.21 MPa (30 psig)
IGP10PYD	D0186UW	Hastelloy C	2.1 MPa (300 psig)

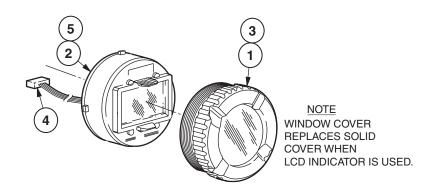
IGP10 Transmitters - Sanitary Process Connections - Seal Surface Finish is 15 Ra Replacement Sensor Assemblies - 316L ss Process Connection; NEOBEE M-20 Fill

Reference IGP10			
Model Number	Part Number	Diaphragm Material	Maximum Span
IGP10TABF1	D0197JD	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10TACF1	D0197JE	316L ss	0.21 MPa (30 psig)
IGP10TADF1	D0197JF	316L ss	2.1 MPa (300 psig)
IGP10TAEF1	D0197JG	316L ss	4.2 MPa (600 psig)
IGP10T2BF1	D0197JH	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10T2CF1	D0197JJ	316L ss	0.21 MPa (30 psig)
IGP10T2DF1	D0197JK	316L ss	2.1 MPa (300 psig)
IGP10T2EF1	D0197JL	316L ss	4.2 MPa (600 psig)
IGP10T3BF1	D0197JM	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10T3CF1	D0197JN	316L ss	0.21 MPa (30 psig)
IGP10T3DF1	D0197JP	316L ss	2.1 MPa (300 psig)
IGP10T3EF1	D0197JQ	316L ss	4.2 MPa (600 psig)
IGP10TBBF1	D0197JR	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10TBCF1	D0197JS	Hastelloy C	0.21 MPa (30 psig)
IGP10TBDF1	D0197JT	Hastelloy C	2.1 MPa (300 psig)
IGP10TBEF1	D0197JU	Hastelloy C	4.2 MPa (600 psig)
IGP10T4BF1	D0197JV	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10T4CF1	D0197JW	Hastelloy C	0.21 MPa (30 psig)
IGP10T4DF1	D0197JX	Hastelloy C	2.1 MPa (300 psig)
IGP10T4EF1	D0197JY	Hastelloy C	4.2 MPa (600 psig)
IGP10T5BF1	D0197JZ	Hastelloy C	50 kPa (200 inH <sub>2</sub> O)
IGP10T5CF1	D0197KA	Hastelloy C	0.21 MPa (30 psig)
IGP10T5DF1	D0197KB	Hastelloy C	2.1 MPa (300 psig)
IGP10T5EF1	D0197KC	Hastelloy C	4.2 MPa (600 psig)
IGP10M1BF1	D0197KD	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M1CF1	D0197KE	316L ss	0.21 MPa (30 psig)
IGP10M1DF1	D0197KF	316L ss	2.1 MPa (300 psig)
IGP10M6BF1	D0197KG	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M6CF1	D0197KH	316L ss	0.21 MPa (30 psig)
IGP10M6DF1	D0197KJ	316L ss	2.1 MPa (300 psig)
IGP10M9BF1	D0197KK	316L ss	50 kPa (200 inH <sub>2</sub> O)
IGP10M9CF1	D0197KL	316L ss	0.21 MPa (30 psig)
IGP10M9DF1	D0197KM	316L ss	2.1 MPa (300 psig)

### —<u></u> CAUTION

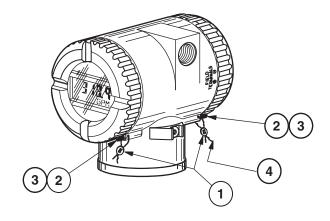
The IGP10 sanitary replacement sensors listed in the tables above are for use with electronics housings vented with a membrane breather plug. These replacement sensors for the IGP10 sanitary versions are distinguishable by the vent tube shown in Figure 4. Conversely, housings that do not have a membrane 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 IPS for a replacement housing assembly with a membrane breather plug.

## OPTIONAL LIQUID CRYSTAL DISPLAY (LCD) INDICATOR ASSEMBLY (Figure 5) Optional Selection -L1 (for Electronics Version Codes -D, -F, and -T only)



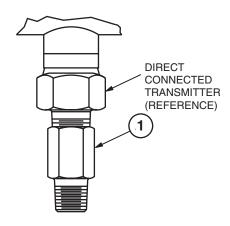
Item	Part No.	Qty.	Part Name
1	Below	1	Cover Assembly with Window - used with LCD Indicator
	D0162LH		Aluminum Cover Assembly
	D0162VH		Stainless Steel Cover Assembly
*2	D0162LQ	1	Indicator Module
3	X0118CC	A/R	Grease, Lubriplate (1-3/4 ounce tube)
4	P0177HB	1	Indicator Cable
5	0048130	A/R	Grease, Silicone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

### OPTIONAL CUSTODY TRANSFER LOCK AND SEAL (Figure 6) Optional Selection -Z2



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

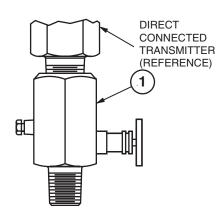
### OPTIONAL METRIC PROCESS CONNECTION (Figure 7) Optional Selection -R



 Item
 Part No.
 Qty.
 Part Name

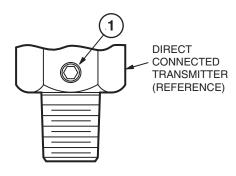
 1
 X0171ZX
 1
 Adapter, Pipe, 316 ss, 1/2 NPT to Rc 1/2

### OPTIONAL BLOCK AND BLEED VALVE (Figure 8) Optional Selection -V2, -V3, or -V4



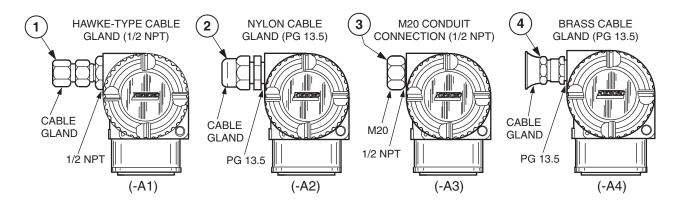
Item	Part No.	Qty.	Part Name
1	Below	1	Block and Bleed Valve
	X0172BU		Carbon Steel (Optional Selection -V2)
	X0172BV		316 ss (Optional Selection -V3)
	X0172BW		316 ss Body, Monel Trim, NACE Approved (Optional Selection -V4)

### OPTIONAL VENT SCREW (Figure 9) Optional Selection -V1



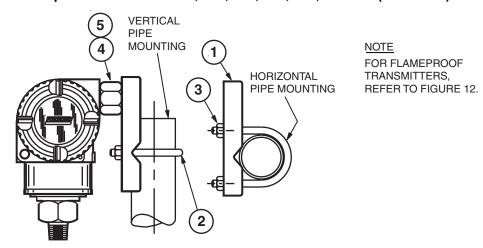
Item Part No. Qty. Part Name1 D0161SW 1 Vent Screw, 316 ss

### OPTIONAL CONDUIT- CONNECTIONS (Figure 10) Optional Selections -A1, -A2, -A3, and -A4



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)

### OPTIONAL PIPE MOUNTING SETS (Figure 11) Optional Selections -M1, -M2, -M3, -M4, -M5, and -M6 (See NOTE)



### Optional Selections -M1, -M3, and -M5 (Painted Steel)

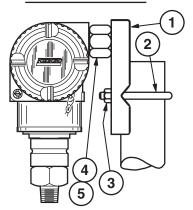
Item -	Part No. Below B0188DL D0166AP D0179FN	Qty. –	Part Name  Mounting Bracket Set; Options -M1, -M3, and -M5 Option -M1, Aluminum Housing; 1/2 NPT Connections Option -M3, Aluminum Housing; PG 13.5 Connections Option -M5, Aluminum Housing; M20 Connections
1 2 3	N0141ZW D0114SM 0011962	1 1 2	Bracket,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

## OPTIONAL PIPE MOUNTING SETS (Figure 12) Optional Selections -M1 to -M6 for Use with Flameproof Transmitters

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



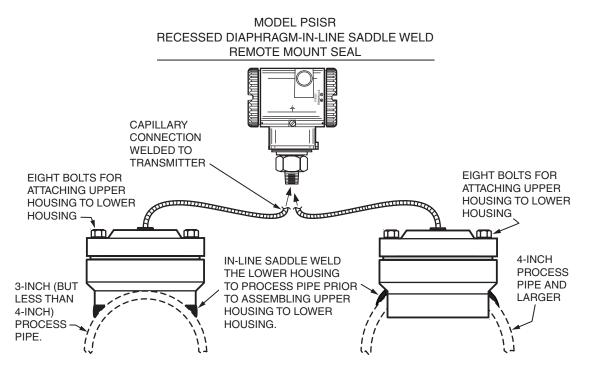
### Optional Selections -M1 to -M6 (Refer to Figure 11 for part numbers of Items 1 to 5)

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

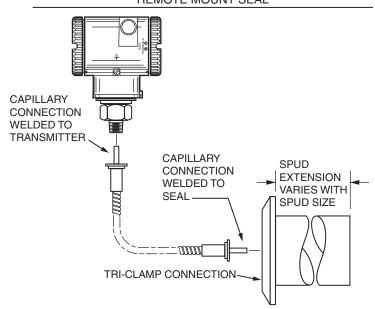
### PRESSURE SEALS FOR USE WITH IAP10 AND IGP10 TRANSMITTERS (Figure 13)

#### — NOTE

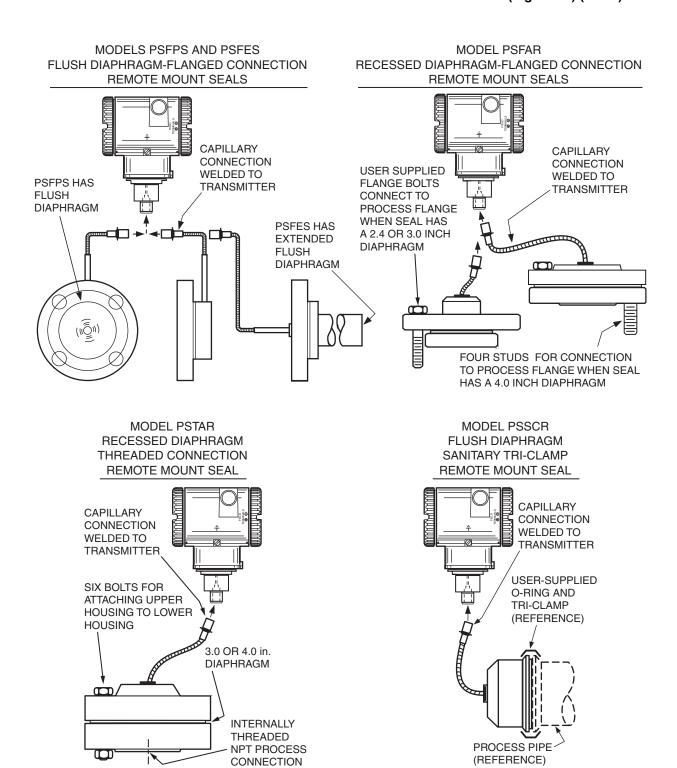
The pressure seals shown below are used with IAP10 and IGP10 Transmitters. Pressure seals are not replaceable items; they must be replaced with the entire transmitter/seal assembly. In this case, both transmitter and pressure seal Model Numbers must be used for the assembled transmitter/seal system. 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



MODEL PSSSR SANITARY, DIRECT CONNECT TO STANDARD OR MINI SPUD REMOTE MOUNT SEAL

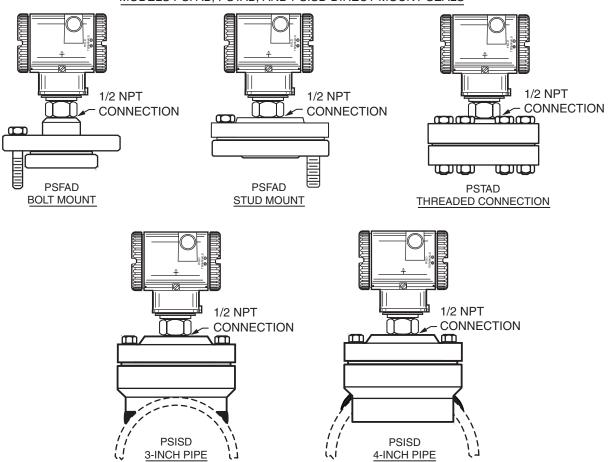


#### PRESSURE SEALS FOR USE WITH IAP10 AND IGP10 TRANSMITTERS (Figure 13) (Cont.)



### PRESSURE SEALS FOR USE WITH IAP10 AND IGP10 TRANSMITTERS (Figure 13) (Cont.)

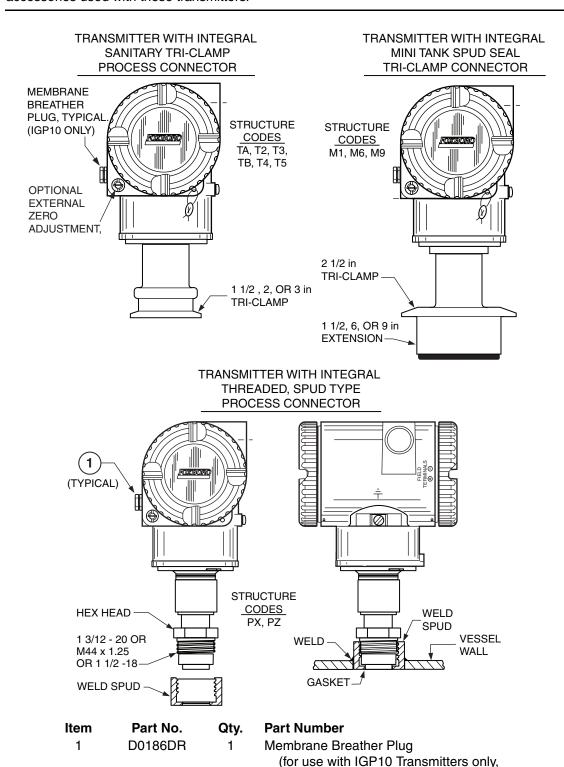




### INTEGRAL SANITARY PROCESS CONNECTORS FOR USE WITH IAP10 and IGP10 TRANSMITTERS (Figure 14)

#### — 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.

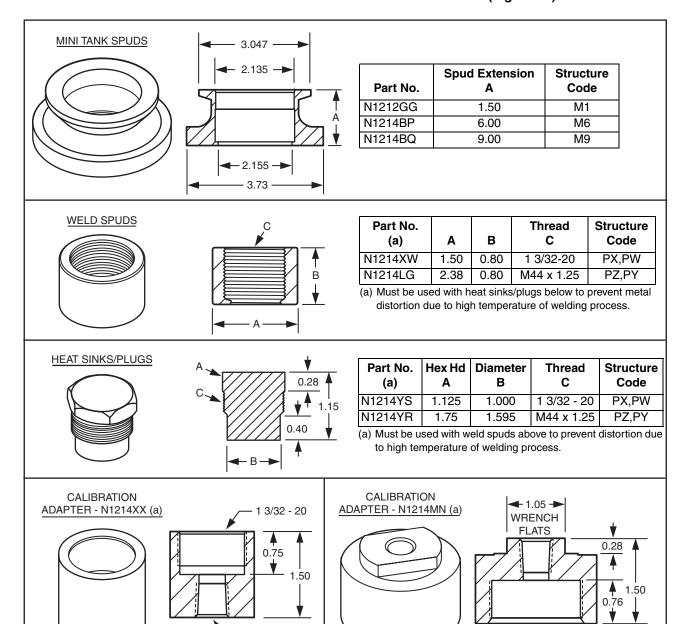


except Span Limit Code E)

M44 x 1.25

2.12

#### **ACCESSORIES - SANITARY PROCESS CONNECTIONS (Figure 15)**



1/4 NPT

(a) Used with Structure Code PZ.

1.50

(a) Used with Structure Code PX.

### ACCESSORIES - SANITARY PROCESS CONNECTIONS (Cont.)

### **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	2 in Tube 1000 psi		N1212FW
4 in Tube	800 psi	600 psi	N1212AW

### Package of O-rings or Gaskets

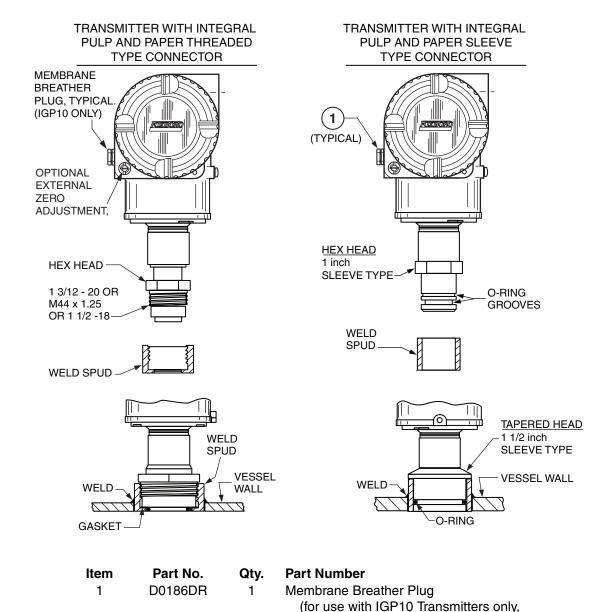
Structure Code	Description	Application	Part Number
M1, M6, M9	O-Rings	For use with Mini Tank Spud Connector	N1212LB
PX	Gasket (Gylon)	For use with 1-inch Flush, Threaded Connector	N1214YX
PZ	Gasket (Gylon)	For use with 1.5-inch Flush, Threaded Connector	N1214YV

<sup>(</sup>a) Tri-Clamps are generally supplied by user but can be ordered from Invensys Foxboro.
(b) The N1212HG Tri-Clamp for a 2.5 in tube is used with Mini Tank Spud Connectors M1, M6, and M9 and is supplied by Invensys Foxboro.

### INTEGRAL PULP AND PAPER PROCESS CONNECTORS FOR USE WITH IAP10 and IGP10 TRANSMITTERS (Figure 16)

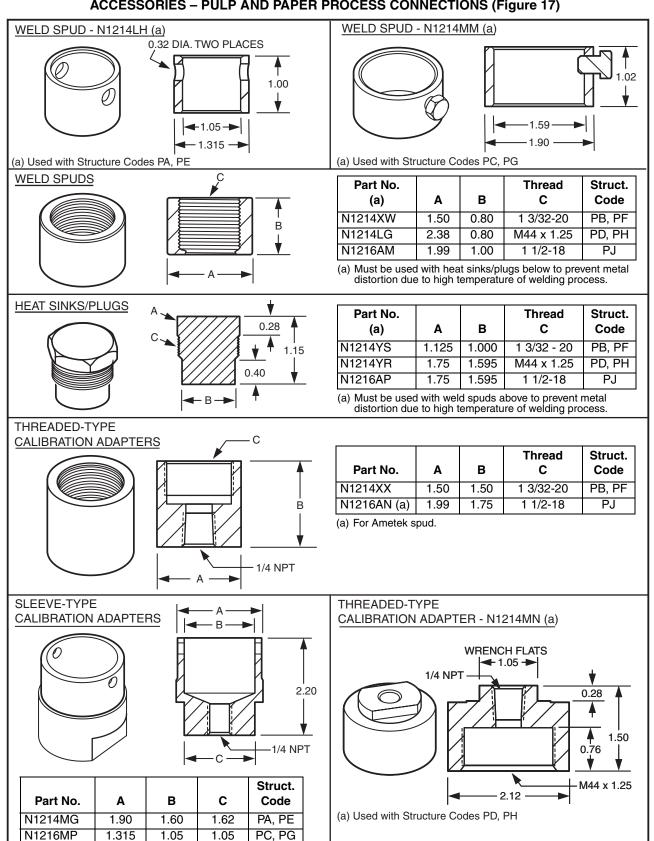
#### — NOTE

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.



except Span Limit Code E)

### **ACCESSORIES - PULP AND PAPER PROCESS CONNECTIONS (Figure 17)**



### ACCESSORIES - PULP AND PAPER PROCESS CONNECTIONS (Cont.)

Table 3. Weld Spuds, Calibration Adapters, Heat Sinks/Plugs, O-Rings, and Gaskets used with Threaded and Sleeve Type Process Connectors

	T	T
Description of Accessory (a)	Used with Structure Code	Part Number (b)
For use with 1-inch Sleeve Type Connector		
Weld Spud	PA, PE	N1214LH (d)
Calibration Adapter	PA, PE	N1214MP (d)
Process O-Ring at Diaphragm (Viton), 1-in Sleeve	PA, PE	N1214YY (e)
Process O-Ring, Outer (Viton), 1-in Sleeve	PA, PE	N1214YZ (e)
For use with 1-inch Flush, Threaded Type Connector		
Weld Spud (c)	PB, PF	N1214XW (d)
Heat Sink/Plug (c)	PB, PF	N1214YS (d)
Calibration Adapter	PB, PF	N1214XX (d)
Process Gasket (Gylon)	PB, PF	N1214YX (e)
For use with 1.5-inch Sleeve Type Connector		
Weld Spud	PC, PG	N1214MM (d)
Calibration Adapter	PC, PG	N1214MQ (d)
Process O-Ring (Viton)	PC, PG	N1214YW (e)
For use with 1.5-inch Flush, Threaded Type Connector		
Weld Spud (c)	PD, PH	N1214LG (d)
Heat Sink/Plug (c)	PD, PH	N1214YR (d)
Calibration Adapter	PD, PH	N1214MN (d)
Process Gasket (Gylon)	PD, PH	N1214YV (e)
For use with 1.5-inch Threaded Type Connector for Ametek Spud		
Weld Spud (c)	PJ	N1216AM
Heat Sink/Plug (c)	PJ	N1216AP
Calibration Adapter	PJ	N1216AN
Process Gasket (Gylon)	PJ	N1216AQ (e)

<sup>(</sup>a) Accessories are ordered and supplied separately.

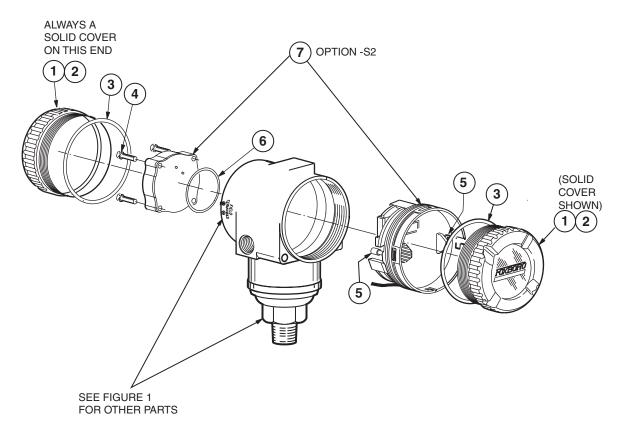
<sup>(</sup>b) Refer to Figure 17 for configuration and dimensions of certain accessories listed.

<sup>(</sup>c) 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.

<sup>(</sup>d) Weld spuds, heat sinks/plugs, and calibration adapters are supplied by user.

<sup>(</sup>e) 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).

### OPTIONAL SIL2 TRANSMITTER FOR HART VERSIONS (Figure 18) Optional Selection -S2



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

#### - 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. SIL 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**

				Number of Parts Recommended for		
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
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 D0170FD D0170FE D0170FL D0170FL D0170FL D0170FA D0170FA D0170FA D0170FF D0170FG D0170FG D0170FM D0170FM D0170FM D0170FM D0170FN D0170FN D0170FN D0161TL D0161TE D0170NA D0161TJ D0161TK D0170NC D0161UM D0161UM D0161UM D0170NE D0170EV D0170EV D0170EV D0170FB D0170FB D0170FB D0170FC D0170FD D0170FH D0170FJ D0170NF	Transmitter Sensor Assembly Reference Model Code IAP1020C IAP1020D IAP1020E IAP1020CG IAP1020CG IAP1020CV1 IAP1020CV1 IAP1020CV1 IAP1020CV1 IAP1020CV1 IAP1021C IAP1021C IAP1021D IAP1021E IAP1021LG IAP1021LG IAP1021LV1 IAP1021LV1 IAP1022C IAP1022C IAP1022C IAP1022C IAP1022C IAP1022CG IAP1022CV1 IAP1022E IAP1022CV1 IAP1023C IAP1023C IAP1023C IAP1023C IAP1023C IAP1023CG IAP1023CG IAP1023CG IAP1023CG IAP1023CG IAP1023CG IAP1023CV1	0	1	1

					Number of Parts Recommended for	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	12 (Also see Figure 2)	Below D0182XA D0182XB D0182XC D0182VU D0182VV D0182VW D0179FX D0179FY D0179FZ D0182XE D0182XF D0182XF D0182VX D0182VY D0182VY D0182VZ D0179GX D0179GY D0179GZ	Transmitter Sensor Assembly (Reference Model Code) (Cont.) IAP1030C IAP1030D IAP1030E IAP1030CG IAP1030DG IAP1030EG IAP1030CV1 IAP1030CV1 IAP1031C IAP1031C IAP1031E IAP1031E IAP1031EG IAP1031CG IAP1031EG IAP1031CV1 IAP1031EG IAP1031CV1 IAP1031CV1 IAP1031CV1			

					nber of P	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	12 (Also see Figure 2)	Below D0170EB D0170EC D0170ED D0175WA D0170EH D0170EH D0170EK D0170EP D0170EP D0170ER D0170ER D0170EF D0170EF D0170EF D0170EG D0170EG D0170EH D0170EN D0170EN D0170EN D0175WK D0170EN D0175WK D0170EN D0175WF D0170ET D0175WF D0161TA D0161TA D0161TB D0161TC D0175WC D0161TF D0161TG D0161TH D0175WL	Transmitter Sensor Assembly (Reference Model Code) (Cont.) IGP1020C IGP1020D IGP1020E IGP1020F IGP1020F IGP1020CG IGP1020CG IGP1020CG IGP1020EG IGP1020EV1 IGP1020EV1 IGP1020CV1 IGP1020CV1 IGP1021C IGP1021D IGP1021E IGP1021E IGP1021EG IGP1021EG IGP1021EG IGP1021EG IGP1021EV1 IGP1021EV1 IGP1021EV1 IGP1021EV1 IGP1021EV1 IGP1021EV1 IGP1021EV1 IGP1022C IGP1022C IGP1022C IGP1022E IGP1022E IGP1022E IGP1022EG IGP1022EG IGP1022EG IGP1022EG IGP1022EG	0	1	1
		D0161UJ D0161UK D0161UL D0175WG	IGP1022CV1 IGP1022DV1 IGP1022EV1 IGP1022FV1			

					nber of P mmende	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	12 (Also see Figure 2)	Below D0161TL D0161TM D0161TN D0175WD D0161TP D0161TQ D0161TR D0175WM D0161UP D0161UP D0161UR D0175WH D0182YA D0182YB D0182YC D0182YD D0182VL D0182VL D0182VL D0182VR D0179FL D0179FQ D0179FR D0179FS D0182YF D0182YF D0182YF D0182YF D0182YF D0179FV D0179FV D0179FV D0179FV D0179FV D0179FW	Transmitter Sensor Assembly (Reference Model Code) (Cont.) IGP1023C IGP1023E IGP1023E IGP1023F IGP1023CG IGP1023CG IGP1023EG IGP1023EG IGP1023EV1 IGP1023EV1 IGP1023EV1 IGP1023EV1 IGP1023EV1 IGP1030C IGP1030C IGP1030F IGP1030F IGP1030EG IGP1030EG IGP1030EG IGP1030EV1 IGP1030EV1 IGP1030EV1 IGP1031CV1 IGP1031C IGP1031C IGP1031E IGP1031EG IGP1031EG IGP1031EG IGP1031EG IGP1031EG IGP1031EG IGP1031EV1 IGP1031EV1 IGP1031EV1	0	1	1

				Number of Parts Recommended for		
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
			Flameproof Transmitter Sensor Assembly (Reference Model Code) IAP1052C IAP1052D IAP1052E IAP1052E IAP1052CG IAP1052EG IAP1052EG IAP1052EV1 IAP1052EV1 IAP1052EV1 IAP1053C IAP1053C IAP1053C IAP1053C IAP1053B IAP1053B IAP1053BG IAP1053BG IAP1053EG IAP1053EV1 IAP1053EV1 IAP1060C IAP1060C IAP1060C IAP1060C IAP1060CG IAP1060CV1 IAP1060EG IAP1060EV1 IAP1061C IAP1061C IAP1061C IAP1061C IAP1061CG IAP1061CG IAP1061CG IAP1061CV1 IAP1061EG IAP1061CV1 IAP1061EV1 IAP1061EV1 IAP1062C IAP1062C IAP1062C	_		
		D0179RH D0179RJ D0179RK D0179RL	IAP1062E IAP1063C IAP1063D IAP1063E			

					nber of P mmende	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	13 Also see Figure 3)	Below D0179PA D0179PB D0179PC D0179PD D0179TB D0179TC D0179TD D0179TE D0179VT D0179VT D0179VV D0179VV D0179PF D0179PF D0179PF D0179PF D0179PF D0179PF D0179PH D0179TH D0179TH D0179TJ D0179VV D0179VV D0179VV D0179VV D0179VV D0179VV D0179VV D0179VV D0179NM D0179NN D0179NN D0179NN D0179NN D0179NN D0179NN D0179TH D0179TH D0179TN D0179TN D0179TN D0179TN D0179TN D0179TN D0179VV D0179WA D0179WB D0179WB	Flameproof Transmitter Sensor Assembly (Cont.)	0	1	1

					nber of P mmende	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	13 Also see Figure 3)	Below D0179NR D0179NS D0179NT D0179NU D0179TP D0179TQ D0179TR D0179TS D0179WD D0179WF D0179WF D0179WG D0179WG D0179NV D0179NV D0179NV D0179NV D0179NY D0179PN D0179PL D0179PM D0179PM	Flameproof Transmitter Sensor Assembly (Cont.) (Reference Model Code) IAP1061C IAP1061D IAP1061E IAP1061F IAP1061CG IAP1061DG IAP1061EG IAP1061EG IAP1061EV1 IAP1061EV1 IAP1061EV1 IAP1062C IAP1062E IAP1063C IAP1063E IAP1063E IAP1063F	0	1	1

					ber of I	
Figure	Item	Part		1	5	20
Number	Number	Number	Part Name	Inst.	Inst.	Inst.
1	12		IAP10 Pulp/Paper Transmitter Sensor Ass'y	0	1	1
	(Also see	Below	(Reference Model Code)			
	Figure 4)	N1214LE	IAP10PAC			
		N1214RT	IAP10PBC			
		N1214MK	IAP10PCC			
		N1214KZ	IAP10PDC			
		N1214SD	IAP10PEC			
		N1214RY	IAP10PFC			
		N1214SJ	IAP10PGC			
		N1214SP	IAP10PHC			
		N1216AA	IAP10PJC			
		N1214LF	IAP10PAD			
		N1214RU	IAP10PBD			
		N1214ML	IAP10PCD			
		N1214LA	IAP10PDD			
		N1214SE	IAP10PED			
		N1214RZ	IAP10PFD			
		N1214SK	IAP10PGD			
		N1214SQ	IAP10PHD			
		N1216AB	IAP10PJD			
1	12	_	IGP10 Pulp/Paper Transmitter Sensor Ass'y	0	1	1
	(Also see	Below	(Reference Model Code)			
	Figure 4)	D0186RR	IGP10PAC			
		D0186RS	IGP10PAD			
		D0186RU	IGP10PBC			
		D0186RV	IGP10PBD			
		D0186RX	IGP10PCB			
		D0186RY	IGP10PCC			
		D0186RZ	IGP10PCD			
		D0186SB	IGP10PDB			
		D0186SC	IGP10PDC			
		D0186SD	IGP10PDD			
		D0186SF	IGP10PEC			
		D0186SG	IGP10PED			
		D0186SJ	IGP10PFC			
		D0186SK	IGP10PFD			
		D0186SM	IGP10PGB			
		D0186SN	IGP10PGC			
		D0186SP	IGP10PGD			
		D0186SR	IGP10PHB			
		D0186SS	IGP10PHC			
		D0186ST	IGP10PHD			
		D0186SV	IGP10PJB			
		D0186SW	IGP10PJC			
		D0186SX	IGP10PJD	atinued		

					ber of I	
Figure Number	Item Number	Part Number	Part Name	1 Inst.	5 Inst.	20 Inst.
1	12 (Also see Figure 4)	Below D0182ZC D0182ZD N1212FF N1212FG D0182ZE D0182ZF D0182ZH D0182ZH D0182ZL D0182ZM D0182ZN D0182ZN D0182ZN D0182ZP D0182ZP D0182ZP D0182ZP D0182ZP D0182ZP D0182ZP D0182ZD D0182ZT D0182ZV D0182ZU D0182ZV D0182ZU D0182ZU D0182ZU D0182ZV	IAP10 Sanitary Transmitter Sensor Assembly (Reference Model Code) IAP10TAC IAP10TAD IAP10T2C IAP10T2D IAP10T3D IAP10T3D IAP10TBC IAP10TBD IAP10T4C IAP10T5C IAP10T5D IAP10T5D IAP10M1C IAP10M1C IAP10M6C IAP10M6C IAP10M6C IAP10M9C IAP10PXC IAP10PXD IAP10PXC IAP10PXD IAP10PXC IAP10PWC IAP10PWC IAP10PWD IAP10PYC IAP10PYD	0	1	1
1	12 (Also see Figure 4)	Below D0197KN D0197KP D0197KQ D0197KR D0197KS D0197KT D0197KV D0197KV D0197KV D0197KX D0197KZ D0197KZ D0197LA D0197LB D0197LC D0197LE D0197LF	IAP10 Sanitary Transmitter Sensor Assembly (Reference Model Code) IAP10TACF1 IAP10TADF1 IAP10T2CF1 IAP10T2DF1 IAP10T3DF1 IAP10TBCF1 IAP10TBDF1 IAP10T4CF1 IAP10T5CF1 IAP10T5DF1 IAP10M1CF1 IAP10M1CF1 IAP10M6CF1 IAP10M6CF1 IAP10M9CF1 IAP10M9DF1	0	1	1

						ber of I	
Figure Number	Item Number	Part Number	Part N	lame	1 Inst.	5 Inst.	20 Inst.
1	12		IGP10 Sanitary Transmi	tter Sensor Assembly	0	1	1
	(Also see	Below	(Reference Model Cod	-			
	Figure 4)	D0186DP	IGP10TAB	,			
	,	D0186QA	IGP10TAC				
		D0186QB	IGP10TAD				
		D0186QC	IGP10TAE				
		D0186QD	IGP10T2B				
		D0186QE	IGP10T2C				
		D0186QF	IGP10T2D				
		D0186QG	IGP10T2E				
		D0186QH	IGP10T3B				
		D0186QJ	IGP10T3C				
		D0186QK	IGP10T3D				
		D0186QL	IGP10T3E				
		D0186QM	IGP10TBB				
		D0186QN	IGP10TBC	SEAL			
		D0186QP	IGP10TBD	SURFACE			
		D0186QQ	IGP10TBE	FINISH			
		D0186QR	IGP10T4B	IS			
		D0186QS	IGP10T4C	32 Ra			
		D0186QT	IGP10T4D				
		D0186QU	IGP10T4E				
		D0186QV	IGP10T5B				
		D0186QW	IGP10T5C				
		D0186QY	IGP10T5D				
		D0186QX	IGP10T5E				
		D0186QZ	IGP10M1B				
		D0186RA	IGP10M1C				
		D0186RB	IGP10M1D				
		D0186RC	IGP10M6B				
		D0186RD	IGP10-M6C				
		D0186RE	IGP10M6D   IGP10M9B				
		D0186RF	IGP10M9B IGP10M9C				
		D0186RG D0186RH	IGP10M9C				
		D0186RJ	IGP10W9D				
		D0186RK	IGP10PXD				
		D0186RM	IGP10PZB				
		D0186RN	IGP10PZC				
		D0186RP	IGP10PZD				
		D0186UR	IGP10PWC				
		D0186US	IGP10PWD				
		D0186UU	IGP10PYB				
		D0186UV	IGP10PYC				
		D0186UW	IGP10PYD				
		D0100044	131 10 .1 10				

				Number of Parts Recommended for		
Figure	Item	Part		1	5	20
Number	Number	Number	Part Name	Inst.	Inst.	Inst.
1	12		IGP10 Sanitary Transmitter Sensor Assembly	0	1	1
	(Also see	Below	(Reference Model Code)			
	Figure 4)	D0197JD	IGP10TABF1			
		D0197JE	IGP10TACF1			
		D0197JF	IGP10TADF1			
		D0197JG	IGP10TAEF1			
		D0197JH	IGP10T2BF1			
		D0197JJ	IGP10T2CF1			
		D0197JK	IGP10T2DF1			
		D0197JL	IGP10T2EF1			
		D0197JM D0197JN	IGP10T3BF1 IGP10T3CF1			
		D01973N D0197JP	IGP10T3DF1			
		D019731 D0197JQ	IGP10T3EF1			
		D0197JR	IGP10TBBF1			
		D0197JS	IOD40 TDO E4			
		D0197JT	JODAN TOD EA			
		D0197JU	IGP10TBDF1 SURFACE   IGP10TBEF1 FINISH			
		D0197JV	IGP10T4BF1 IS			
		D0197JW	IGP10T4CF1 15 Ra			
		D0197JX	IGP10T4DF1			
		D0197JY	IGP10T4EF1			
		D0197JZ	IGP10T5BF1			
		D0197KA	IGP10T5CF1			
		D0197KB	IGP10T5DF1			
		D0197KC	IGP10T5EF1			
		D0197KD	IGP10M1BF1			
		D0197KE	IGP10M1CF1			
		D0197KF	IGP10M1DF1			
		D0197KG	IGP10M6BF1			
		D0197KH	IGP10M6CF1			
		D0197KJ	IGP10M6DF1			
		D0197KK	IGP10M9BF1			
		D0197KL	IGP10-M9CF1			
	0	D0197KM	IGP10M9DF1		4	-
5	2	D0162LQ	LCD Indicator Module	0	1	1
14	1	D0186DR	Plug, Membrane Breather	0	2	4
10	4	(a)	Diug Mambrana Draathar	<u> </u>	_	1
16	1	D0186DR (a)	Plug, Membrane Breather	0	2	4
18	7	D0197FP	SIL Kit for SIL-Certified HART Transmitters	0	1	1
	· -		nsmitter Electronics Housings (except Structure Code E) havin	_	-	

<sup>(</sup>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.

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