Series 8700
Magnetic Flowmeter Systems

Effective: 01 July 2003

For additional information, please refer to this product's corresponding Product Data Sheet.

CF = Consult Factory
-- = Not Applicable

Price List

Model 8705 Magnetic Flowmeter Flowtube

Prices are stated in GLP

Model	Product Description	Base
8705	Magnetic Flowmeter Flowtube	
Code	**Lining Material**	**Add**
A	PFA (available in 3 to 12 inch (80 to 300 mm) line sizes)(1)	
T	Teflon® (PTFE)	See
F	Tefzel® (ETFE) (available in 0.5- to 16-inch (15 to 400 mm) line sizes)	Lining
P	Polyurethane (available in 1.5- to 36-inch (40 to 900 mm) line sizes)	Materials
N	Neoprene (available in 1.5- to 36-inch (40 to 900 mm) line sizes)	Below
L	Linatex natural rubber (available in 1.5- to 36-in (40 to 900 mm) line sizes)	
Code	**Electrode Material/Electrode Type**	**Add**
	Two Measurement Electrodes	
SA	316L Stainless Steel	
HA	Hastelloy® C-276	
TA	Tantalum	
PA	90% Plantinum-10% Iridium	
NA	Titanium	
	Two Measurement Electrodes + Third Grounding Electrode	
	(Not available with W3 on electrode housing configuration on 8" (200 mm) and under line sizes.)	
SE	316L Stainless Steel	
HE	Hastelloy C-276	
TE	Tantalum	
PE	90% Plantinum-10% Iridium	
NE	Titanium	
	Two Bulletnose Measurement Electrodes	
	(Not available in 0.5 - 1.5 in (15 - 40 mm) line sizes.)	
SB	316L Stainless Steel	
HB	Hastelloy C-276	
	Two Removable Measurement Electrodes	
	(Not available in 0.5- and 1-inch (14 and 25 mm) line sizes); requires W3 option	
SR	316L Stainless Steel	
HR	Hastelloy C-276	

Other electrode materials and types available upon request. Consult factory.

		Lining Material (from above)			
Code	**Line Size**	**A**	**T**	**F**	**P, N, & L**
005	0.5 inch (15 mm)				
010	1 inch (25 mm)				
015	1.5 inch (40 mm)				
020	2 inch (50 mm)				
030	3 inch (80 mm)				
040	4 inch (100 mm)				
060	6 inch (150 mm)				
080	8 inch (200 mm)				
100	10 inch (250 mm)				
120	12 inch (300 mm)				
140	14 inch (350 mm)				
160	16 inch (400 mm)				
180	18 inch (450 mm)				
200	20 inch (500 mm)				
240	24 inch (600 mm)				
300	30 inch (750 mm)				
360	36 inch (900 mm)				

Model 8705

Code	Flange Material, Type, and Rating	Add
C1	Carbon Steel, ASME B16.5 (ANSI) Class 150 (30- and 36-inch AWWA C207 Table 2 Class D Flat Face)	
C3	Carbon Steel, ASME B16.5 (ANSI) Class 300	See
C6	Carbon Steel, ASME B16.5 (ANSI) Class 600[2]	Table 1
	(maximum pressure: 1000 psig; available in 0.5- through 10-inch [15 through 250 mm])	
C7	Carbon Steel, ASME B16.5 (ANSI) Class 600[3]	
	(with lining material codes P, N, and L only; available in 1.5- through 8-inch [40 through 200 mm])	
C9	Carbon Steel, ASME B16.5 (ANSI) Class 900[2] [4]	
	(with lining material codes P, N, L only; available in 1- through 8-[25 through 200 mm])	
	(1 Inch (25mm) poly lined also available)	
S1	304 Stainless Steel, ASME B16.5 (ANSI) Class 150 (30- and 36-inch AWWA C207 Table 2 Class D Flat Face)	See
S3	304 Stainless Steel, ASME B16.5 (ANSI) Class 300	Table 1
S6	304 Stainless Steel, ASME B16.5 (ANSI) Class 600[2]	
	(maximum pressure: 1000 psig; available in 0.5- through 10-inch [15 through 250 mm])	
S7	304 Stainless Steel, ASME B16.5 (ANSI) Class 600[3]	
	(with lining material codes P, N, and L only; available in 1.5- through 8-inch [40 through 200 mm])	
S9	304 Stainless Steel, ASME B16.5 (ANSI) Class 900[2] [4]	
	(with lining material codes P, N, L only; available in 1.5- through 8-[25 through 200 mm])	
	(1 Inch (25mm) poly lined also available)	
P1	316 Stainless Steel, ASME B16.5 (ANSI) Class 150	See
	(30- and 36-inch AWWA C207 Table 2 Class D Flat Face), pipe and flange	Table 1
P3	316 Stainless Steel, ASME B16.5 (ANSI) Class 300, pipe and flange	
CD	Carbon Steel, DIN PN 10 (not available for flange sizes 15 to 150 mm)	
CE	Carbon Steel, DIN PN 16 (not available for flange sizes 15 to 80 mm)	See
CF	Carbon Steel, DIN PN 25 (not available for flange sizes 15 to 150 mm)	Table 2
CH	Carbon Steel, DIN PN 40 (not available for flange sizes 750 to 900 mm)	
SD	Stainless Steel, DIN PN 10 (not available for flange sizes 15 to 150 mm)	
SE	Stainless Steel, DIN PN 16 (not available for flange sizes 15 to 80 mm)	See
SF	Stainless Steel, DIN PN 25 (not available for flange sizes 15 to 150 mm)	Table 2
SH	Stainless Steel, DIN PN 40 (not available for flange sizes 750 to 900 mm)	

Other flange materials, types, and ratings available upon request. Consult factory.

Code	Electrode Housing Configuration	Add
W0	Sealed, welded housing	
W1	Sealed, welded housing with pressure relief	
W3	Sealed, welded housing with separate electrode compartments	

Code	Hazardous Location Certifications	Add
N0	Factory Mutual (FM) Class 1, Division 2 Approval for nonflammable fluids;	
	Canadian Standards of Association (CSA) Class 1, Division 2 Approval; CE Marking	
N1	KEMA/CENELEC Ex nL IIB[5]	
	CE Marking	
N5	Factory Mutual (FM) Class 1, Division 2 Approval for flammable fluids	
KD	KEMA/CENELEC EEx e ia IIC Approval; CE Marking	

Code	Options	Add
	Optional Grounding Rings[6]	
G1	316L SST Grounding Rings	
G2	Hastelloy C-276 Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	
G3	Titanium Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	See
G4	Tantalum Grounding Rings (0.5- to 8-inch (15 to 200 mm) flowtube line sizes)	Table 9
G5	Singe 316L SST Grounding Ring	
G6	Single Hastelloy C-276 Grounding Ring (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	
G7	Single Titanium Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	
G8	Single Tantalum Grounding Rings (0.5- to 8-inch (15 to 200 mm) flowtube line sizes)	

Model 8705

Code	Options	Add
	Optional Lining Protectors(6)	See
L1	316L SST Lining Protectors	Table 4
L2	Hastelloy C-276 Lining Protectors (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	PFA Liners
L3	Titanium Lining Protectors (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	See
	Optional Sanitary Connections(7)	Table 4A
A3	Sanitary 3-A (0.5- to 3-inch (15 to 80 mm) sizes only); ASME B16.5 (ANSI) Class 150 to Tri-Clamp® Adapter	
A4	Sanitary 3-A (2 0.5-inch (64 mm) sizes only); ASME B16.5 (ANSI) Class 150 to Tri-Clamp Adapter	See
A5	Cherry-Burrell™ Sanitary I-Line (0.5- to 3-inch (15 to 80 mm) sizes only);	Table 6
	ASME B16.5 (ANSI) Class 150 to I-Line Adapter	
A6	Cherry-Burrell Sanitary I-Line (2 0.5-inch (64 mm) size only); ASME B16.5 (ANSI) Class 150 to I-Line Adapter	
	Other Options	
B3	Integral Mount with Model 8732C/8742C Transmitter	
D1	High Accuracy Calibration [0.25% of rate from 3-30 ft/s (0.9-10 m/s)] matched flowtube and transmitter system(8)	
DW	NSF Drinking Water Certification (24 inch (600mm) (0.5- to 24-inch [15 to 600 mm] sizes only))	
	PTFE Teflon or ETFE liners (0.5- to 24-inch [15 to 600 mm]) or Polyurethane liners (All line sizes)(5)	
H1	Model 8701 flowtube lay length (available for 0.5- to 4-inch (15 to 100 mm) line sizes);	
	spool piece: ASME B16.5 (ANSI) Class 150 or Class 300 flange and 304 stainless steel pipe	
H2	Model 8701 Flowtube lay length (available for 0.5- to 16-inch (15 to 400 mm) line sizes.)	See
H5	Foxboro® Model 2800 lay length (available for 3- to 18 inch (80 - 450mm line sizes)) spool piece: ASME	Table 5
	B16.5 (ANSI) Class 150 flange and 304 stainless steel pipe.	
H7	ABB Fischer & Porter® Model CopaX and MagX lay length (available to 0.5 to 12 inch(15 to 3000 mm line sizes))	
	spool piece: ASME B16.5 (ANSI) Class 150 or Class 300 flange and 304 stainless steel pipe	
Q4	Inspection Certificate for Calibration Data Consistent with ISO 10474 3.1B	
Q8	Material Traceability Certificate per DIN 3.1 B	
Q9	Material Traceability Certificate (electrodes only) per DIN 3.1B 337	
Q66	Welding Procedure Qualification Record Documentation	
Q67	Welder Performance Qualification Record Documentation	
Q70	Inspection Certificate Weld Examination, ISO 10474 3.1B	
	-0.5- to 12-inch [15 to 300 mm] flowtube line sizes	
	-14- to 18-inch [350 to 450 mm] flowtube line sizes	
	-20- to 36-inch [500 to 900 mm] flowtube line sizes	
Typical Model Number:	**8705 T SA 040 C1 W0 N0**	

(1) PFA lining material is only available with two measurement electrodes in Hastelloy C-276 and 90% Platinum-10% Iridium electrode material and ASME B16.5 (ANSI) 150# AND 300# FLANGE RATINGS. Consult factory for small line size availability

(2) Electrode options limited to two measurement electrodes or two measurement electrodes + third grounding electrode

(3) Electrode options limited to two stainless steel or two Hastelloy C-276 measurement electrodes only

(4) Lining Protectors not available

(5) Pending approval, consult factory for availability

(6) Grounding Rings and Lining Protectors provide the same fluid grounding function. Lining Protectors available in Teflon (PTFE) and Tefzel (ETFE) only

(7) Sealed, welded housing (Option Code W0 or W1) required. Only available with Teflon (PTFE) lining material (Option Code T) and 316L Stainless Steel, Hastelloy C-276, and 90% Plantinum-10% Iridium electrode material (Option Codes S, H, and P). Not available with integral mount Model 8712 transmitter Sanitary connection codes A4 and A6 only available in line size code 020. A4 and A6 option codes are only available in 2-inch (50 mm) line sizes

(8) Option Code must be ordered for both flowtube and transmitter

Model 8707

Effective: 01 July 2003

High-Signal Magnetic Flowtube

Prices are stated in GLP

Model	Product Description	Base
8707	High Signal Magnetic Flowmeter Flowtube	
Code	**Lining Material**	**Add**
A	PFA (available in 3 to 12 inch (80 to 300 mm) line sizes)(1)	
T	Teflon® (PTFE)	See
F	Tefzel® (ETFE) (available in 3- to 16-inch (80 to 400 mm) line sizes)	Lining
P	Polyurethane	Materials
N	Neoprene	Below
L	Linatex natural rubber	
Code	**Electrode Material/Electrode Type**	**Add**
	Two Measurement Electrodes	
SA	316L Stainless Steel	
HA	Hastelloy® C-276	
TA	Tantalum	
PA	90% Plantinum-10% Iridium	
NA	Titanium	
	Two Bulletnose Measurement Electrodes	
SB	316L Stainless Steel	
HB	Hastelloy C-276	

		Lining Material (from above)			
Code	**Line Size**	**A**	**T**	**F**	**P, N, & L**
030	3 inch (80 mm)				
040	4 inch (100 mm)				
060	6 inch (150 mm)				
080	8 inch (200 mm)				
100	10 inch (250 mm)				
120	12 inch (300 mm)				
140	14 inch (350 mm)				
160	16 inch (400 mm)				
180	18 inch (450 mm)				
200	20 inch (500 mm)				
240	24 inch (600 mm)				
300	30 inch (750 mm)				
360	36 inch (900 mm)				

Code	Flange Material, Type, and Rating	Add
C1	Carbon Steel, ASME B16.5 (ANSI) Class 150 (30- and 36-inch AWWA C207 Table 2 Class D Flat Face)	
C3	Carbon Steel, ASME B16.5 (ANSI) Class 300	See
S1	304 Stainless Steel, ASME B16.5 (ANSI) Class 150 (30- and 36-inch AWWA C207 Table 2 Class D Flat Face)	Table 3
S3	304 Stainless Steel, ASME B16.5 (ANSI) Class 300	
Code	**Housing Configuration**	**Add**
W0	Sealed, welded housing	
W1	Sealed, welded housing with pressure relief	
W3	Sealed, welded housing with separate electrode compartments	
Code	**Hazardous Location Certifications**	**Add**
N0	Factory Mutual (FM) Class 1, Division 2 Approval for nonflammable fluids;	
	Canadian Standards Association (CSA) Class 1, Division 2 Approval	

Model 8707

Code	Options	Add
	Optional Grounding Rings(2)	
G1	316L SST Grounding Rings	
G2	Hastelloy C-276 Grounding Rings (3- to 12-inch (80 to 300 mm) flowtube line sizes)	See
G3	Titanium Grounding Rings (3- to 12-inch (80 to 300 mm) flowtube line sizes)	Table 9
G4	Tantalum Grounding Rings (3- to 8-inch (80 to 200 mm) flowtube line sizes)	
G5	Singe 316L SST Grounding Ring	
G6	Single Hastelloy C-276 Grounding Ring (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	
G7	Single Titanium Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	
G8	Single Tantalum Grounding Rings (0.5- to 8-inch (15 to 200 mm) flowtube line sizes)	
	Optional Lining Protectors(2)	See
L1	316L SST Lining Protectors	Table 4
L2	Hastelloy C-276 Lining Protectors (3- to 12-inch (80 to 300 mm) flowtube line sizes)	PFA Liners
L3	Titanium Lining Protectors (3- to 12-inch (80 to 300 mm) flowtube line sizes)	See
	Other Options	Table 4A
B3	Integral Mount with Model 8732C/8742C Transmitter	
D1	High Accuracy Calibration [0.25% of rate from 3-30 ft/s (0.9-10 m/s)] matched flowtube and transmitter system(3)	
D2	Dual Flowtube Calibration Numbers on Model 8712H and Model 8712C Transmitters	
H1	Model 8703 flowtube lay length (available for 3- to 4-inch (80 to 100 mm) line sizes); spool piece: ASME B16.5 (ANSI) Class 150 or Class 300 flange and 304 stainless steel pipe	
H2	Model 8703 Flowtube lay length (available for 3- to 16-inch (80 to 400 mm) line sizes.)	See
H5	Foxboro® Model 2800 lay length (available for 3- to 18 inch (80 - 450mm line sizes)) spool piece: ASME B16.5 (ANSI) Class 150 flange and 304 stainless steel pipe.	Table 5
H7	ABB Fischer & Porter® Model CopaX and MagX lay length (available to 0.5 to 12 inch(15 to 3000 mm line sizes)) spool piece: ASME B16.5 (ANSI) Class 150 or Class 300 flange and 304 stainless steel pipe	
Q4	Inspection Certificate for Calibration Data Consistent with ISO 10474 3.1B	
Q8	Material Traceability Certificate per DIN 3.1 B	
Q9	Material Traceability Certificate (electrodes only) per DIN 3.1B 337	
Q66	Welding Procedure Qualification Record Documentation	
Q67	Welder Performance Qualification Record Documentation	
Q70	Inspection Certificate Weld Examination, ISO 10474 3.1B -3- to 12-inch [80 to 300 mm] flowtube line sizes -14- to 18-inch [350 to 450 mm] flowtube line sizes -20- to 36-inch [500 to 900 mm] flowtube line sizes	
Typical Model Number:	**8707 T SA 040 C1 W0 N0**	

(1) Electrode options limited to two Haselloy C-276 or two 90% Platinum-10% Iridium electrode material

(2) Grounding Rings and Lining Protectors provide the same fluid grounding function. Lining Protectors available in Teflon® (PTFE) and Tefzel® (ETFE) only

(3) Option Code must be ordered for both flowtube and transmitter

Model 8711

Effective: 01 July 2003

For additional information, please refer to this product's corresponding Product Data Sheet

Magnetic Flowmeter Flowtube

Prices are stated in GLP

Model	Product Description	Base
8711	Magnetic Flowmeter Flowtube (flangeless construction)	
Code	**Lining Material**	**Add**
T	Tefzel® (ETFE)	See
S	Teflon® (ETFE) (not available in 0.15 and 0.30 inch [4 and 8 mm] line sizes)	Below
Code	**Electrode Material/Electrode Type**	**Add**
	Two Measurement Electrodes	
SA	316L Stainless Steel	
HA	Hastelloy® C-276	
TA	Tantalum	
PA	90% Plantinum-10% Iridium	
NA	Titanium	
	Two Measurement Electrodes + Third Grounding Electrode	
SE	316L Stainless Steel	
HE	Hastelloy C-276	
TE	Tantalum	
PE	90% Plantinum-10% Iridium	
NE	Titanium	

		Lining Material (from above) Code	
Code	**Line Size**	**T**	**S**
15F	0.15 inch (4 mm) (not available with Teflon (PTFE) lining material)		
30F	0.30 inch (8 mm) (not available with Teflon (PTFE) lining material)		
005	0.5 inch (15 mm)		
010	1 inch (25 mm)		
015	1.5 inch (40 mm)		
020	2 inch (50 mm)		
030	3 inch (80 mm)		
040	4 inch (100 mm)		
060	6 inch (150 mm)		
080	8 inch (200 mm)		

Code	Transmitter Mounting Configuration	Add
R	Remote	
U	Integral, mounted to Model 8732C/8743C transmitter	

Code	Mounting Kit	Add
	Expanded Kit: Includes two alignment rings (where applicable), threaded SST studs, and nuts	
1	ASME B16.5 (ANSI) Class 150	See
2	DIN PN 10/16 (8 inch [200 mm] has a PN 10 mounting kit only)	Table 7
3	ASME B16.5 (ANSI) Class 300	or
4	DIN PN 25/40 (8 inch [200 mm] has a PN 25 mounting kit only)	Table 8
	Standard Kit: includes two alignment rings (where applicable)	
5	ASME B16.5 (ANSI) Class 150	
6	DIN PN 10/16 (8 inch [200 mm] has a PN 10 alignment rings only)	
7	ASME B16.5 (ANSI) Class 300	
8	DIN PN 25/40 (8 inch [200 mm] has a PN 25 alignment rings only)	

Model 8711

Code	Hazardous Location Certifications	Add
N0	Factory Mutual (FM) Class 1, Division 2 Approval for nonflammable fluids; Canadian Standards of Association (CSA) Class 1, Division 2 Approval; KEMA/CENELEC Ex nL IIB(1); CE Marking	
N5	Factory Mutual (FM) Class 1, Division 2 Approval for flammable fluids	
E5	Factory Mutual (FM) Class 1, Division 1, Explosion-Proof Approval (available with integral mount Model 8732C or remote mount transmitters)	
CD	KEMA/CENELEC EEx e ai IIC Increased Safety Approval; CE Marking	
Code	**Options**	**Add**
DW	NSF Drinking Water Certification	
G1	316L SST Grounding Rings	
G2	Hastelloy C-276 Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	See
G3	Titanium Grounding Rings (0.5- to 12-inch (15 to 300 mm) flowtube line sizes)	Table 10
G4	Tantalum Grounding Rings (0.5- to 8-inch (15 to 200 mm) flowtube line sizes)	
Q4	Inspection Certificate for Calibration Data Consistent with ISO 10474 3.1B	
Q8	Material Traceability Certificate per DIN 3.1 B	
Q9	Material Traceability Certificate (electrodes only) per DIN 3.1 B 337	
Q66	Welding Procedure Qualification Record Documentation	
Q67	Welder Performance Qualification Record Documentation	
Q70	Inspection Certificate Weld Examination, ISO 10474 3.1B (-.15 to 8-inch [4 to 300 mm] flowtube line size only)	
Typical Model Number:	**8711 T SA 030 U 5 N0**	

(1) Pending Approval, consult factory for availability

TABLE 1. Model 8705 ASME B16.5 (ANSI) Flange Options.

Code	Line Size inches (mm)	Carbon Steel Class 150 C1	Carbon Steel Class 300 C3	Carbon Steel Class 600 C6	Carbon Steel Class 600 C7	Carbon Steel Class 900 C9	304 SST Class 150 S1	304 SST Class 300 S3	304 SST Class 600 S6	304 SST Class 600 S7	304 SST Class 900 S9	316 SST Class 150 P1	316 SST Class 300 P3
005	0.5 (15)												
010	1 (25)												
015	1.5 (40)												
020	2 (50)												
030	3 (80)												
040	4 (100)												
060	6 (150)												
080	8 (200)												
100	10 (250)												
120	12 (300)												
140	14 (350)												
160	16 (400)												
180	18 (450)												
200	20 (500)												
240	24 (600)												
300[1]	30 (750)												
360[1]	36 (900)												

(1) AWWA C207 Table 2 Class D Flat Face Flange for Options C1 and S1 only.

TABLE 2. Model 8705 DIN Flange Options.

Code	Line Size inches (mm)	Carbon Steel PN 10 CD	Carbon Steel PN 16 CE	Carbon Steel PN 25 CF	Carbon Steel PN 40 CH	Stainless Steel PN 10 SD	Stainless Steel PN 16 SE	Stainless Steel PN 25 SF	Stainless Steel PN 40 SH
005	0.5 (15)								
010	1 (25)								
015	1.5 (40)								
020	2 (50)								
030	3 (80)								
040	4 (100)								
060	6 (150)								
080	8 (200)								
100	10 (250)								
120	12 (300)								
140	14 (350)								
160	16 (400)								
180	18 (450)								
200	20 (500)								
240	24 (600)								

TABLE 3. Model 8707 ASME B16.5 (ANSI) Flange Options.

Code	Line Size inches (mm)	Carbon Steel ASME B16.5 (ANSI) 150 C1	Carbon Steel ASME B16.5 (ANSI) 300 C3	Stainless Steel ASME B16.5 (ANSI) 150 S1	Stainless Steel ASME B16.5 (ANSI) 300 S3
030	3 (80)				
040	4 (100)				
060	6 (150)				
080	8 (200)				
100	10 (250)				
120	12 (300)				
140	14 (350)				
160	16 (400)				
180	18 (450)				
200	20 (500)				
240	24 (600)				
300[1]	30 (750)				
360[1]	36 (900)				

(1) AWWA C207 Table 2 Class D Flat Face Flange for Options C1 and S1 only.

TABLE 4. Models 8705 and Model 8707
High-Signal Flowtube Lining Protectors

LINING PROTECTORS (per pair)				
Code	Line Size inches (mm)	316L SST L1	Hastelloy C-276 L2	Titanium L3
005	0.5 (15)	1705	3530	3409
010	1 (25)	2102	4534	4489
015	1.5 (40)	2671	5796	5114
020	2 (50)	2841	6772	5739
030	3 (80)	3523	9411	6989
040	4 (100)	3921	14060	8978
060	6 (150)	5682	16930	9602
080	8 (200)	7614	19511	11932
100	10 (250)	9861	29555	19034
120	12 (300)	12102	37875	22443
140	14 (350)	13239	--	--
160	16 (400)	17045	--	--
180	18 (450)	21591	--	--
200	20 (500)	24148	--	--
240	24 (600)	26421	--	--
300	30 (750)	27841	--	--
360	36 (900)	30114	--	--

TABLE 4A. Models 8705 and Model 8707
PFA Flowtube Lining Protectors

LINING PROTECTORS (per pair)				
Code	Line Size inches (mm)	316LSST L1	Hastelloy L2	Titanium L3
005	0.5 (15)	1911	3644	3563
010	1 (25)	2476	4790	4790
015	1.5 (40)	3315	6286	5684
020	2 (50)	3547	7293	6356
030	3 (80)	4510	10124	7869
040	4 (100)	5684	15372	10581
060	6 (150)	9058	19790	12853
080	8 (200)	12707	24042	16889
100	10 (250)	14882	33676	23768
120	12 (300)	17804	42412	27826

TABLE 5. Models 8705 and Model 8707
Flowtube Lay Length

Code	Line Size inches (mm)	H1	H2	H5		H7	
				150 SST	300 SST	150 SST	300 SST
005	0.5 (15)	1056	1056	1056	--	1866	2814
010	1 (25)	1056	1056	1056	--	2295	3228
015	1.5 (40)	1144	1144	1144	--	3325	4584
020	2 (50)	1200	1200	1200	--	4117	5389
030	3 (80)	1344	1344	4639	--	4561	4282
040	4 (100)	1628	1628	6310	9566	4968	6095
060	6 (150)	--	2283	10282	22291	9371	--
080	8 (200)	--	2850	15525	28641	14569	--
100	10 (250)	--	4039	20329	35271	18719	--
120	12 (300)	--	4833	29341	50507	27081	--
140	14 (350)	--	7222	32643	--	--	--
160	16 (400)	--	7956	36658	--	--	--

* ASME B16.5 (ANSI) Class 150 or Class 300 flange
and 304 stainless steel pipe for H1 and H2 options
* Consult factory for pricing of H5 and H7 options with Carbon Steel Pipe

TABLE 6. Model 8705 Sanitary Connections

Code	Flowtube Size inches (mm)	Line Size inches (mm)	A3	A4	A5	A6
005	0.5 (15)	1 (25)	2273	--	2500	--
010	1 (25)	1.5 (40)	2273	--	2500	--
015	1.5 (40)	2 (50)	2557	--	2811	--
020	2 (50)	3 (80)	2841	3156	3122	3467
030	3 (80)	4 (100)	3977	--	4378	--

TABLE 7. Model 8711 Mounting Kit - ASME B16.5 (ANSI) Class 150 and Class 300 (1/2- through 8-inch line sizes).

Threaded Studs, Nuts, and Washer Kits					
Line Size (inches)	**Code**	**Flange Rating**	**Quantity and Size**	**Description (See Below)**	**Price**
0.15-0.5	1	Class 150	4 each: 1/2-in. - 13 x 6-in. threaded studs; 8 each: 1/2 - 13 in. nuts and washers	A	
	3	Class 300	4 each: 1/2-in. - 13 x 6-in. threaded studs; 8 each: 1/2 - 13 in. nuts and washers	A	
1.00	1	Class 150	4 each: 1/2-in. - 13 x 6-in. threaded studs; 8 each: 1/2 - 13 in. nuts and washers	A	
	3	Class 300	4 each: 5/8-in. - 13 x 6-in. threaded studs; 8 each: 5/8 - 13 in. nuts and washers	A	
1.5	1	Class 150	4 each: 1/2-in. - 13 x 6-in. threaded studs; 8 each: 1/2 - 13 in. nuts and washers	B	
	3	Class 300	4 each: 3/4-in. - 10 x 7-in. threaded studs; 8 each: 3/4 - 10 in. nuts and washers	B	
2.0	1	Class 150	4 each: 5/8-in. - 11 x 7.5-in. threaded studs; 8 each: 5/8 - 11 in. nuts and washers	B	
	3	Class 300	8 each: 5/8-in. - 11 x 7.5-in. threaded studs; 16 each: 5/8 - 11 in. nuts and washers	B	
3.0	1	Class 150	4 each: 5/8-in. - 11 x 9-in. threaded studs; 8 each: 5/8 - 11 in. nuts and washers	B	
	3	Class 300	8 each: 3/4-in. - 10 x 9.5-in. threaded studs; 16 each: 3/4 - 10 in. nuts and washers	B	
4.0	1	Class 150	8 each: 5/8-in. - 11 x 10-in. threaded studs; 16 each: 5/8 - 11 in. nuts and washers	B	
	3	Class 300	8 each: 3/4-in. - 10 x 11-in. threaded studs; 16 each: 3/4 - 10 in. nuts and washers	B	
6.0	1	Class 150	8 each: 3/4-in. - 10 x 12-in. threaded studs; 16 each: 3/4 - 10 in. nuts and washers	B	
	3	Class 300	12 each: 3/4-in. - 10 x 12.5-in. threaded studs; 24 each: 3/4 - 10 in. nuts and washers	B	
8.0	1	Class 150	8 each: 3/4-in. - 10 x 14-in. threaded studs; 16 each: 3/4 - 10 in. nuts and washers	B	
	3	Class 300	12 each: 7/8-in. - 9 x 15-in. threaded studs; 24 each: 7/8 - 9 in. nuts and washers	B	

Material Descriptions

A = 316 SST, ASTM A193, Grade B8M, Class 1 threaded mounting studs; ASTM A194, Grade 8M heavy hex nuts; SAE per ANSI B18.2.1, Type A, Series N flat washers

B = CS, ASTM A193, Grade B7 threaded mounting studs; ASTM A194 Grade 2H heavy hex nuts, SAE per ANSI B18.2.1, Type A, Series N flat washers; all items clear, chromate, zinc-plated

TABLE 8. Model 8711 Mounting Kit - DIN PN 10 through 40 (25 through 200 mm line sizes).

Threaded Studs, Nuts, and Washer Kits					
Line Size (mm)	**Code**	**Flange Rating**	**Quantity and Size**	**Description (See Below)**	**Price**
4-25	2 and 4	DIN PN 10-40	4 each: 12 1.75 x 146 mm threaded studs; 8 each: M12 mm nuts and washers	C	
40	2 and 4	DIN PN 10-40	4 each: M16 2 x 165 mm threaded studs; 8 each: M16 x 2 mm nuts and washers	D	
50	2 and 4	DIN PN 10-40	4 each: M16 2 x 184 mm threaded studs; 8 each: M16 x 2 mm nuts and washers	D	
80	2 and 4	DIN PN 10-40	8 each: M16 2 x 229 mm threaded studs; 16 each: M16 x 2 mm nuts and washers	D	
100	2	DIN PN 10-16	8 each: M16 2 x 254 mm threaded studs; 16 each: M16 x 2 mm nuts and washers	D	
100	4	DIN PN 25-40	8 each: M20 2.5 x 273 mm threaded studs; 16 each: M20 x 2.5 mm nuts and washers	D	
150	2	DIN PN 10-16	8 each: M20 2.5 x 305 mm threaded studs; 16 each: M20 x 2.5 mm nuts and washers	D	
150	4	DIN PN 25-40	8 each: M24 3 x 330 mm threaded studs; 16 each: M24 x 3 mm nuts and washers	D	
200	2	DIN PN 10	8 each: M20 2.5 x 368 mm threaded studs; 16 each: M20 x 2.5 mm nuts and washers	D	
200	4	DIN PN 25	12 each: M24 4 x 381 mm threaded studs; 24 each: M24 x 3 mm nuts and washers	D	

Material Descriptions

C = 316 SST, ASTM A193, Grade B8M, Class 1 threaded mounting studs; ASTM A194, Grade 8M, DIN 934 H=D, metric heavy hex nuts; 316 SST, A4, DIN 125 flat washers

D = CS, ASTM A193, Grade B7 threaded mounting studs; ASTM A194 Grade 2H, DIN 934 H=D, metric heavy hex nuts; CS, DIN 125 flat washers, all items yellow zinc plated

TABLE 9. Models 8705 and 8707 Grounding Rings ASME B16.5 (ANSI) and DIN Ratings (price per pair)

1/2-inch (15 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	533	533	533	533
G2	Hastelloy-C	2239	2239	2239	2239
G3	Titanium	2239	2689	2689	2689
G4	Tantalum	6428	7712	7712	7712
G5	316L SST	293	293	293	293
G6	Hastelloy-C	1231	1231	1231	1231
G7	Titanium	1231	1479	1479	1479
G8	Tantalum	3535	4242	4242	4242

1-inch (25 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	656	656	656	656
G2	Hastelloy-C	2517	2517	2517	2517
G3	Titanium	2517	3022	3022	3022
G4	Tantalum	9143	10971	10971	10971
G5	316L SST	361	361	361	361
G6	Hastelloy-C	1384	1384	1384	1384
G7	Titanium	1384	1662	1662	1662
G8	Tantalum	5029	6034	6034	6034

1 1/2-inch (40 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	794	794	794	794
G2	Hastelloy-C	2789	2789	2789	2789
G3	Titanium	2789	3344	3344	3344
G4	Tantalum	9995	1194	11994	11994
G5	316L SST	437	437	437	437
G6	Hastelloy-C	1534	1534	1534	1534
G7	Titanium	1534	1839	1839	1839
G8	Tantalum	5497	6597	6597	6597

2-inch (50 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	856	889	856	856
G2	Hastelloy-C	3528	3528	3528	3528
G3	Titanium	3528	4233	4233	4233
G4	Tantalum	14850	17817	17817	17817
G5	316L SST	471	489	471	471
G6	Hastelloy-C	1940	1940	1940	1940
G7	Titanium	1940	2328	2328	2328
G8	Tantalum	8168	9799	9799	9799

3-inch (80 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	922	922	922	922
G2	Hastelloy-C	5389	5389	5389	5389
G3	Titanium	5389	6467	6467	6467
G4	Tantalum	24851	29821	29821	29821
G5	316L SST	507	507	507	507
G6	Hastelloy-C	2964	2964	2964	2964
G7	Titanium	2964	3557	3557	3557
G8	Tantalum	13668	16402	16402	16402

4-inch (100 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	1167	1167	1167	1167
G2	Hastelloy-C	7117	7117	7117	7117
G3	Titanium	7117	8539	7828	9394
G4	Tantalum	35666	42800	42800	42800
G5	316L SST	642	642	642	642
G6	Hastelloy-C	3914	3914	3914	3914
G7	Titanium	3914	4696	4305	5167
G8	Tantalum	19616	23540	23540	23540

6-inch (150 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	2061	2061	2061	2061
G2	Hastelloy-C	9189	9189	9189	9189
G3	Titanium	9189	11028	10106	12128
G4	Tantalum	53544	64256	64256	64256
G5	316L SST	1134	1134	1134	1134
G6	Hastelloy-C	5054	5054	5054	5054
G7	Titanium	5054	6065	5558	6670
G8	Tantalum	20449	24539	24539	25340

8-inch (200 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	2417	2417	2417	2417
G2	Hastelloy-C	16567	16567	16567	16567
G3	Titanium	16567	19878	18222	21867
G4	Tantalum	66822	80188	80188	80188
G5	316L SST	1329	1329	1329	1329
G6	Hastelloy-C	9112	9112	9112	9112
G7	Titanium	9112	10933	10933	10933
G8	Tantalum	36752	44103	44103	44103

10-inch (250 mm) Line Size

		ANSI Flange		DIN Flange
Code	Material	150#	300#	PN 16
G1	316L SST	4583	4583	4583
G2	Hastelloy-C	18906	18350	--
G3	Titanium	18906	22689	--
G5	316L SST	2521	2521	2521
G6	Hastelloy-C	10398	10093	--
G7	Titanium	10398	12479	--

12-inch (300 mm) Line Size

		ANSI Flange		DIN Flange
Code	Material	150#	300#	PN 16
G1	316L SST	6744	6744	6744
G2	Hastelloy-C	20172	20172	--
G3	Titanium	20172	24206	--
G5	316L SST	3709	3709	3709
G6	Hastelloy-C	11095	11095	--
G7	Titanium	11095	11095	--

14-inch (350 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	150 #	8750
G5	316L SST	150 #	4813

16-inch (400 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	150 #	10044
G5	316L SST	150 #	5524

18-inch (450 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	150 #	11033
G5	316L SST	150 #	6068

20-inch (500 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	150 #	12800
G5	316L SST	150 #	7040

24-inch (600 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	150 #	14589
G5	316L SST	150 #	8024

30-inch (750 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	125 #	19422
G5	316L SST	125 #	10682

36-inch (900 mm) Line Size

Code	Material	Flange (ANSI)	Base
G1	316L SST	125 #	23183
G5	316L SST	125 #	12751

TABLE 10. Model 8711 Grounding Rings ASME B16.5 (ANSI) and DIN Ratings (price per pair)

1/2-inch (15 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	533	533	533	533
G2	Hastelloy-C	2239	2239	2239	2239
G3	Titanium	2239	2689	2689	2689
G4	Tantalum	6428	7712	7712	7712

1-inch (25 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	656	656	656	656
G2	Hastelloy-C	2517	2517	2517	2517
G3	Titanium	2517	3022	3022	3022
G4	Tantalum	9143	10971	10971	10971

1 1/2-inch (40 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	794	794	794	794
G2	Hastelloy-C	2789	2789	2789	2789
G3	Titanium	2789	3344	3344	3344
G4	Tantalum	9995	11994	11994	11994

2-inch (50 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	856	856	856	856
G2	Hastelloy-C	3528	3528	3528	3528
G3	Titanium	3528	4233	4233	4233
G4	Tantalum	14850	17817	17817	17817

3-inch (80 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	922	922	922	922
G2	Hastelloy-C	5389	5389	5389	5389
G3	Titanium	5389	6467	6467	6467
G4	Tantalum	24851	29821	29821	29821

4-inch (100 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	1167	1167	1167	1167
G2	Hastelloy-C	7117	7117	7117	7117
G3	Titanium	7117	8539	7828	9394
G4	Tantalum	35666	42800	42800	42800

6-inch (150 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	2061	2061	2061	2061
G2	Hastelloy-C	9189	9189	9189	9189
G3	Titanium	9189	11028	10106	12128
G4	Tantalum	53544	64256	64256	64256

8-inch (200 mm) Line Size

		ANSI Flange		DIN Flange (PN)	
Code	Material	150#	300#	10, 16	25, 40
G1	316L SST	2417	2417	2417	2417
G2	Hastelloy-C	16567	16567	16567	16567
G3	Titanium	16567	19878	18222	21867
G4	Tantalum	66822	80188	80188	80188

Effective: 01 July 2003

Model 8712C/U/H

Magnetic Flowmeter Transmitter

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Price List

Prices are stated in GLP

Model	Product Description	Base C	Base U	Base H
8712C	Magnetic Flowmeter Transmitter			
8712U	Universal Magnetic Flowmeter Transmitter			
8712H	High-Signal Magnetic Flowmeter Transmitter (For use with Model 8707 High-Signal Flowtube only)			
Code	**Transmitter Style**	**Add C**	**Add U**	**Add H**
R	Remote (2-inch pipe or surface mounting)			
Code	**Power Supply Voltage**	**C**	**U**	**H**
03	10-30 V dc			-
12	115 V ac, 50-60 Hz			
24	230 V ac, 50-60 Hz			-
Code	**Hazardous Location Certifications**	**C**	**U**	**H**
N0	Factory Mutual (FM) Class 1, Division 2 Approval for nonflammable fluids; Canadian Standards Association (CSA) Class 1, Division 2 Approval			
N5	Factory Mutual (FM) Class 1, Division 2 Approval for flammable fluids			
CE	CE Marking			
Code	**Options**	**C**	**U**	**H**
B6	Stainless Steel 4-bolt Kit for 2-inch Pipe Mount			
C1	Custom Configuration (Completed CDS 00806-0100-4668 required with order)			
C4	Analog Output Levels Compliant with NAMUR recommendations NE43, 18-January-1994, and high alarm level(1)			
CN	Analog Output Levels Compliant with NAMUR recommendations NE43, 18-January-1994, and low alarm level(1)			
D1	High Accuracy Calibration [0.25% of rate from 3 to 30 ft/s (0.9 to 10 m/s)] matched flowtube and transmitter system(2)			
M4	Local Operator Interface (LOI)			
T1	Battery-backed Totalizer			
Typical Model Number:	**8712C R 12 N0 M4**			

(1) NAMUR compliant operation and the Alarm latch options are preset at the factory and can not be changed to standard operation in the field
(2) Option Code must be ordered for both flowtube and transmitter

Effective: 01 July 2003

Model 8732C

Magnetic Flowmeter Transmitter

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Price List

Prices are stated in GLP

Model	Product Description	Base
8732C	Magnetic Flowmeter Transmitter	
Code	**Transmitter Style**	**Add**
T	Integral (mounted to flowtube)	
R	Remote (2 in. Pipe mount)	
Code	**Power Supply Voltage**	**Add**
03	15-30 V dc	
12	85-250 V ac, 50-60 Hz	
Code	**Hazardous Location Certifications**	**Add**
N0	Factory Mutual (FM) Class 1, Division 2 Approval for nonflammable fluids; Canadian Standards Association (CSA) Class 1, Division 2 Approval; KEMA/CENELEC Ex nL IIB(1); CE Marking	
N5	Factory Mutual (FM) Class 1, Division 2 Approval for flammable fluids	
E5	Factory Mutual (FM) Class 1, Division 1, Explosion-Proof Approval(2)	
ED	KEMA/CENELEC EEx d II BT6 Increased Safety Approval; CE Marking	
Code	**Options**	**Add**
C1	Custom Configuration (Completed CDS 00806-0100-4668 required with order)	
C4	Analog Output Levels Compliant with NAMUR recommendations NE43, 18-January-1994, and high alarm level(3)	
CN	Analog Output Levels Compliant with NAMUR recommendations NE43, 18-January-1994, and low alarm level(3)	
D1	High Accuracy Calibration [0.25% of rate from 3 to 30 ft/s (0.9 to 10 m/s)] matched flowtube and transmitter system(4)	
J1	CM 20 Conduit Adapter	
J2	PG 13.5 Conduit Adapter	
L1	Transient Protection Circuitry	
M4	Local Operator Interface	
T1	Non-volatile Totalizer	
Typical Model Number:	**8732C T 12 N0 M4**	

(1) Pending Approval, consult factory for availability
(2) Only available with Model 8711 Intagral Mount Flowtube
(3) NAMUR compliant operation and the Alarm latch options are preset at the factory and can not be changed in the field
(4) Option Code must be ordered for both flowtube and transmitter

Transmitter and Flowtube Accessory

Code	Description	Base
8714DQ4	Multi-point Reference Calibration Standard (for use with Models 8712C/U, or 8732C Transmitters)	

Model 8742C Magnetic Flowmeter
Transmitter with FOUNDATION™ fieldbus

Effective: 01 July 2003

Price List

Prices are stated in GLP

Model	Product Description	Base
8742C	Magnetic Flowmeter Transmitter with F OUNDATION fieldbus (flowtube ordered separately)	
Code	**Transmitter Output**	**Add**
F	FOUNDATION fieldbus Protocol (comes standard with one analog input function block)	
Code	**Power Supply Voltage**	**Add**
AC	90-250 V ac, 50-60 Hz	
DC	15-50 V dc	
Code	**Hazardous Locations Certifications**	**Add**
N0	Factory Mutual (FM) Class 1, Division 2 Approval; for nonflammable fluids; Canadian Standards Association (CSA) Class 1, Division 2 Approval; CE Marking	
N5	Factory Mutual (FM) Class 1, Division 2 Approval for flammable fluids Canadian Standards Association (CSA) Approval Class 1, Division 2	
E5	Factory Mutual (FM) Class 1, Division 1, Explosion-Proof Approval	
ED	KEMA/CENELEC EEx d II T6 Intrinsic Safety Approval; CE Marking	
K0	Factory Mutual (FM) Class I, Division 2 , Class II/III Division 1, approval with intrinsically safe fieldbus output	
K5(2)	Factory Mutual (FM) Class 1, Division 1, Explosion-Proof with intrinsically safe fieldbus output	
KD	KEMA/CENELEC EEx d [ia] II T6 , Flame-proof approval with intrinsically safe fieldbus output; CE Marking	
Code	**Options**	**Add**
	PlantWeb® Software Functions	
A01	Basic Control: Proportional/Integral/Derivative (PID) Function Blocks	
D01	Product and Process Diagnostic: Grounding/Wiring Diagnostic, Electrode Fault Diagnostic, and High Process Noise Detection	
D11	Product Diagnostic: Grounding/Wiring Diagnostic and Electrode Fault Diagnostic	
D21	Process Diagnostic: High Process Noise Detention	
	Transmitter Options	
B4	Remote Mount for 2" Pipe Mount Bracket (transmitter junction box and mounting bracket included) (1)	
C1	Custom Configuration (completed configuration data sheet 00806-0100-4793 required with order)	
D1	High Accuracy Calibration [0.25% of rate from 3 to 30 ft/s (0.9 to 10 m/s)] matched flowtube and transmitter system (4)	
J1	CM 20 Conduit Adapter	
J2	PG 13.5 Conduit Adapter	
M5	Local Display	
Typical Model Number:	**8742C F AC N0 A01**	

(1) Pending Approval, consult factory for availability

(2) Only available with Model 8711 Integral Mount flowtube