

SANITARY FLUSH DIAPHRAGM PRESSURE TRANSMITTER

Models 280 & 283
380 & 383

FEATURES:

- 3A Approved
- All Welded Stainless Steel
- RFI Protection
- Model 383 Temperature Compensated to 400° F

PRESSURE RANGES:

- From 0-20" wc to 0-1000 psi

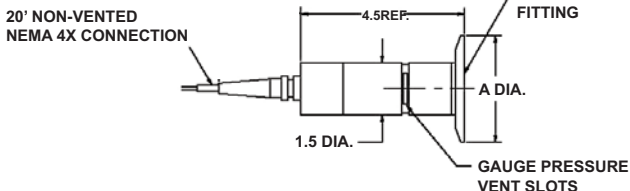
ACCURACY:

- From 0.1% FSO to 0.5% FSO

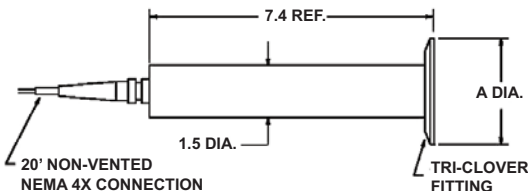


FLUSH DIAPHRAGM

MODEL 80



MODEL 83



Some options will affect dimensions.
 Consult factory if important.

WIRING CODE

	280/283	380/383
A/1 RED	+ EXC.	+EXC./SIGNAL
B/2 GREEN	+ SIGNAL	NC
C/3 WHITE	NC	NC
D/4 BLACK	- EXC./SIGNAL	- EXC./SIGNAL
E/5 BLUE	NC	NC
F/6 BROWN	NC	NC
SHIELD	CASE GROUND	CASE GROUND

PRESSURE/ SIZES	TRI-CLOVER FITTING	A
0-75 PSI to 0-1000 PSI	1/2" & 3/4 PIPE	.984" DIA
0-20" WC to 0-1000 PSI	1-1/2" PIPE	1.984" DIA
0-20" WC to 0-300 PSI	2" PIPE	2.516" DIA
0-20" WC to 0-300 PSI	2-1/2" PIPE	3.047" DIA
0-20" WC to 0-300 PSI	3" PIPE	3.579" DIA

GASKETS FOR MODEL 80

Quick clamp style with compression ridge for superior sealing

SIZE	BUNA-N	TEFLON	SILICON
1/2"	GTRI-0.50 B	GTRI-0.50 T	GTRI-0.50 S
3/4"	GTRI-0.75 B	GTRI-0.75 T	GTRI-0.75 S
1 1/2"	GTRI-1.50 B	GTRI-1.50 T	GTRI-1.50 S
2"	GTRI-2.00 B	GTRI-2.00 T	GTRI-2.00 S
2 1/2"	GTRI-2.50 B	GTRI-2.50 T	GTRI-2.50 S
3"	GTRI-3.00 B	GTRI-3.00 T	GTRI-3.00 S

High polish 304 stainless steel quick clamps

SIZE	
1/2" & 3/4"	CTRI-0.50
1 1/2"	CTRI-1.50
2"	CTRI-2.00
2 1/2"	CTRI-2.50
3"	CTRI-3.00

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5SL-80.00 Rev A



Pressure, Level & Temperature Transmitters & Transducers

Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Accuracy	(Static error band includes non-linearity, hysteresis, non-repeatability)
Series B:	±0.5% FSO (RSS)
Series C:	±0.2% FSO (RSS)
Series D:	±0.1% FSO (RSS)
Wetted Parts	Type 316 Stainless Steel
Temperature Limits *	
Ambient Temp. Compensated	
(Model 80)	0° F to 180° F
(Model 83)	0° F to 180° F
Operating	
(Model 80)	-20° F to 200° F
(Model 83)	-20° F to 200° F
Media Temp. Compensated	
(Model 80)	0° F to 180° F
(Model 83)	0° F to 400° F
Operating	
(Model 80)	-20° F to 200° F
(Model 83)	-20° F to 400° F
Temperature Compensation *	
Zero	Less than ±2.0% FSO/100°F
Span	Less than ±2.0% FSO/100°F
Electricals	
Excitation Voltage	
(Models 280/283)	10.5-42 Vdc
(Models 380/383)	13-37 Vdc
Output at 70° F	
(Models 280/283)	0-5 Vdc ±2% FSO
(Models 380/383)	4-20 mA ±2% FSO
Zero Balance	
(Models 280/283)	0.0 Vdc ±5% FSO at 70°F
(Models 380/383)	4.0 mA ±5% FSO at 70°F
Input Current	
(Models 280/283)	6.2 mA nominal
Load Impedance	
(Models 380/383)	1200 ohms maximum at 37 Vdc & 550 ohms maximum at 24 Vdc
Output Current	
(Models 280/283)	2.0 mA maximum for less than 0.1% FSO attenuation.
Resolution	Infinite 0.2% practical
RFI	Included
Mechanicals	
Proof Pressure	3 times full scale pressure
Burst Pressure	6times full scale pressure
Weight	14 oz. nominal, dependent on pressure fitting
Enclosure	All welded type 316 Stainless Steel, rated NEMA-4X Approved 3A
Identification	Etched into body
Connections	
Pressure	Tri-clamp 1/2" through 3"
Electrical	20' 6-Conductor Cable

MODEL		
280 - 283	0-5 Vdc	
380 - 383	4-20 mA	
280X	0-5 Vdc	
380X	4-20 mA	
SERIES (ACCURACY)		
B	0.5% FSO	
C	0.2% FSO	
D	0.1% FSO	
PRESSURE RANGE		
	IN WC	
XB 20	XK 100	XU 750
XC 25	XM 150	XW 1,000
XD 30	XO 200	XY 1,500
XF 50	XQ 300	YA 2,000
XH 75	XS 500	SZ Non-Stan.
	PSI	
PC 1	PR 20	RD 200
PE 2	PO 25	RE 250
PG 3	PT 30	RF 300
PJ 5	PV 50	RH 500
PL 7.5	PX 75	RK 750
PN 10	PZ 100	RM 1,000
PP 15	RB 150	SZ Non-Stan.
PRESSURE TYPE		
2	Gauge	
4	Vacuum	
10	Compound	

OPTIONS

CONNECTOR OR CABLE

- AA** NEMA 4 with 20' cable (standard)
- CF** 1/2" NPT (M) Thread with 20" potted leads
- CL** 1/2" NPT (M) with 20" vented cable
- CZ** Alternate connector/cable/other
- DD** NEMA-6X w/20' non-vented cable
- DE** NEMA-6X w/20' vented cable

PRESSURE PORT

- AA** 2" Tri-Clamp (is standard)
- FR** 1/2" Tri-Clamp (ranges 0-75 psi and higher only)
- FS** 1" Tri-Clamp
- FU** 2 1/2" Tri-Clamp
- LV** 3/4" Tri-Clamp (ranges 0-75 psi and higher only)
- LW** 1 1/2" Tri-Clamp
- FV** 3" Tri-Clamp

GENERAL

- GA** Standardized output to ±0.5% FSO
- GB** Alternate full scale outputs
- GE** Improved temperature compensation to ±0.5% FSO/100°F for zero and span respectively
- GF** Expanded process temperature range, -65 to 250° F (±2% FSO/100° F)
- GJ** Zero & span controls. Can-mounted
- GP** Hastelloy diaphragm & Tri-Clamp fitting (wetted port)
- GS** 0-10 Vdc FSO, Models 280/283 only
- GZ** Customer special
- HE** Improved zero balance ±0.5% FSO
- HX** Hastelloy diaphragm
- JH** Remote cable-mounted Zero & Span controls. 3' cable on open side. Cable on closed side as required. 380/383 only.
- JV** Voltage surge protection. 380/383 only
- MD** Explosion-proof/explosion-resistant zero and span controls
- MH** 3:1 ranging for upper ranges ≤ 0-15 psi and 0-20" wc through 0-100" wc only. Pressure code indicates upper pressure range.
- MX** EMI protection. Models 280/283, 380/383 only.

ORDERING GUIDE:

Use the following codes to identify desired item.

MODEL	SERIES	RANGE	PRESSURE	OPTIONS
●	—	●	—	● — ● / ● / ●

Example: 380-B-PZ-2-CF-FS