



Shown above with "BH" electrical connector


MODEL 570 FLUSH TIP PRESSURE TRANSMITTER


4-20 MA, FLUSH TIP, HAZARDOUS APPROVAL OPTIONS


Model 570 with the Flush Tip (FT) option provides a rugged, sealed solution for hazardous rated and harsh environments.



 Many Options available

 All Stainless Steel construction

 IP-67 Rated

 High Overpressure Applications

The Model 570 Flush Tip Pressure Transmitter is designed to meet the rigorous demands placed on pressure transmitters used for well-servicing applications including manifold charge and high-pressure pump suction pressure measurements.

Features of the Model 570 Flush Tip pressure transmitter include:

- Flush Tip (Zero Cavity Design)
- Patented* Solid Stainless-Steel Diaphragm Technology
- Isolated Sensor Design virtually eliminates torque effect
- Withstands 5 times Proof Pressure at 0-1,000 psis range
- Withstands 20 times Burst Pressure at 0-1,000 psis range
- High Accuracy ($\leq \pm 0.50\%$ FSO)
- IP67 rating (Fully welded and sealed housing)
- Hazardous Approval Options Available

Minimizing the torque effect on the diaphragm has eliminated the need to adjust the instrument after installation. The ability to withstand pressure spikes up to 5 times the full scale pressure range without any degradation in performance, extends the life of the transmitter when cavitation is a risk in the system. The patented pressure sensor diaphragm technology has resulted in a very stable unit with the high performance and data integrity needed for blending in acidizing, cementing and fracturing applications.

*US Patent 9,851,272 B2

PRESSURE RANGES:

PSIS

AM	0-100 psis
AN	0-150 psis
CA	0-160 psis
AP	0-200 psis
AQ	0-250 psis
AR	0-300 psis
AT	0-400 psis
AU	0-500 psis
AY	0-1,000 psis

BAR

FH	0-6 bar
FI	0-10 bar
FJ	0-13 bar
FK	0-16 bar
FL	0-25 bar
FM	0-35 bar
FP	0-60 bar

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PERFORMANCE

Static Error Band	≤±0.50% FSO (Includes BFSL, Hysteresis, and Repeatability by RSS)
Full Scale Output (FSO)	16 mA (4-20mA)
Zero and Span Adjustment	No
Zero and Span Balance	±1% FSO
Zero Effect from Installation	≤±0.10% FSO at 25 lbs ft to 50 lbs ft
Long Term Stability	≤±0.5% FSO per 6 months
Response Time	<2 mSec to reach 90% FSO
Compensated Temperature Range	+70°F to +170°F (21°C to 76°C)
Temperature Effect on Zero	≤±2.0% FSO per 100°F (Typ.)
Temperature Effect on Span	≤±2.0% FSO per 100°F (Typ.)
Temperature Effect on Zero & Span combined for Range	None
Span Adjustment	None
Operating Temperature	-40°F to 185°F (-40°C to 85°C)
Maximum Media Temperature	-40°F to 185°F (-40°C to 85°C)
Storage Temperature Limit	-65°F to 250°F (-53°C to 121°C)

ELECTRICAL

Supply Voltage	12 to 30 Vdc
Power Supply Regulation Effect	≤±0.02% FSO per Volt
Output Signal	4 - 20 mA
Bridge Impedance	5000 Ohms nominal
Circuit Protection	Varistor protected across the input leads for surges above 40 Vdc and currents to 250 Amps peak with a pulse width of 20 μSecs. Reverse polarity protected.
Insulation Resistance	< 5 ns to case ground
Electrical Connection	1/2" NPT (M), 18 AWG wire, 72"
Wire Color Codes (Standard)	
Red	+Power/Signal
Black	-Power/Signal
Green	Case ground
White	No Connection

MECHANICAL

Pressure Connection	1/2"-14 NPT Male
Proof Pressure	5X Full Scale Pressure Range
Burst Pressure	20X Full Scale Pressure Range
Mounting	May be supported by process piping , electrical conduit or optional mounting bracket to 2" pipe.

MATERIALS OF CONSTRUCTION

Enclosure	304 Stainless Steel
Wetted Parts	15-5 PH Stainless Steel & 304 Stainless Steel
Shock Resistance	100 G's for 11 mSec
Weight	19 oz. Nominal
Identification	Laser etched onto body
Enclosure Ratings	Classification NEMA 4X, IP67







Model 570 Flush Tip Pressure Transmitter

OPTIONS

BH	6-pin hermetic, bayonet-style 303 SST weld mount connector
DG	Improved Temperature Compensation ±1.0% FSO per 100°F (Typ.)
EA	Special calibration run
GA	Viton O-ring (for VQ, VR and VS Pressure Ports only)
GD	EDPM (Ethylene Propylene Diene Monomer rubber) O-ring (for VQ Pressure Port only)
NH	Customer Specified Marking
QK	Inconel (718) wetted parts Not available for AM (100 psis) range
VQ	¾"-16 UNF (Male) per J1926-2
VR	G ½ (M) per DIN 3852-11, Type E
VS	G ½ (M) per DIN 3852-11, w/ two "O" rings

Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

APPROVALS

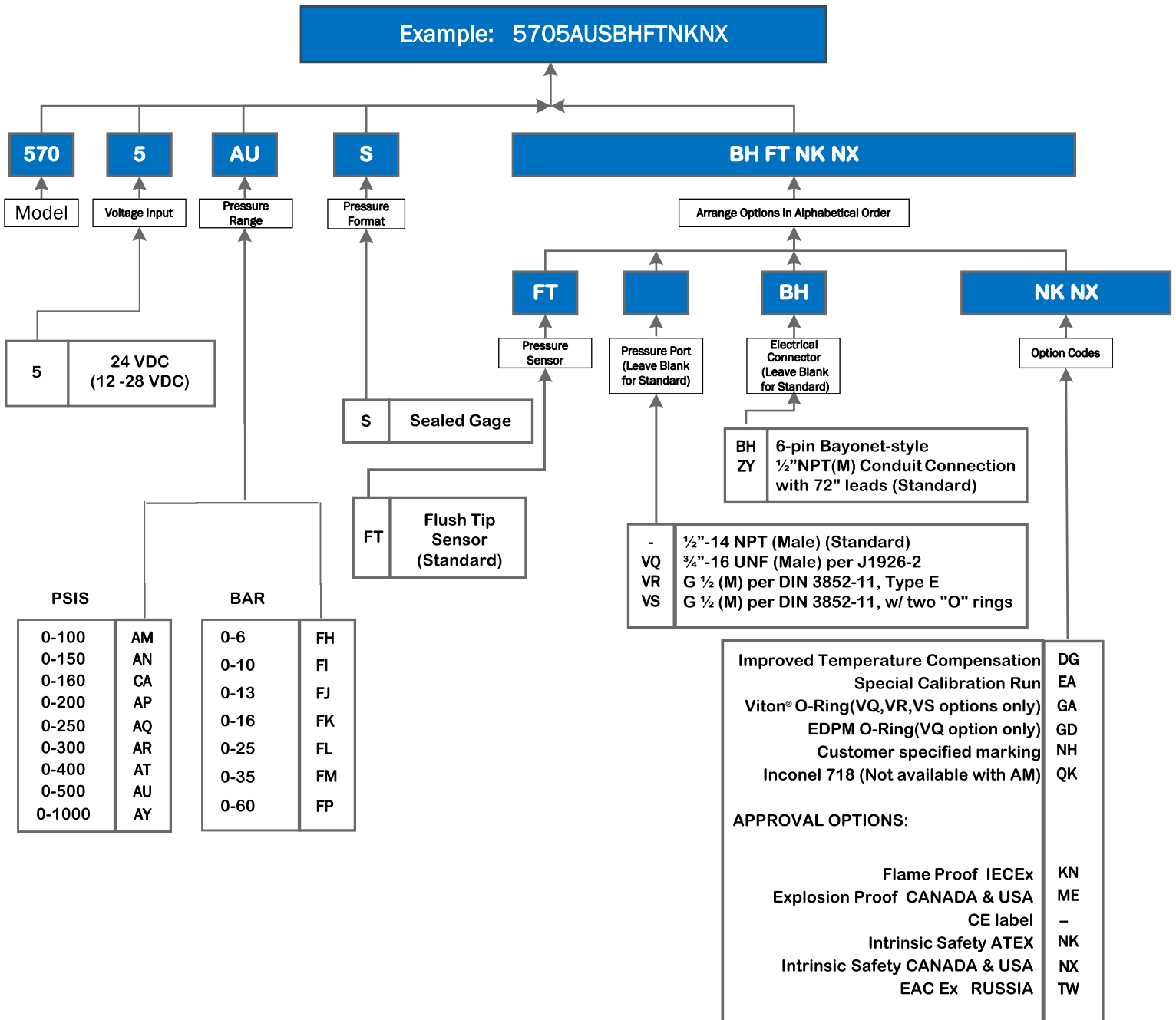
		CE Declaration of Conformity
KN		Flameproof IECEx : Ex db IIC Gb T5, T5: -20°C ≤ Ta ≤ +85°C
ME		Explosion Proof CANADA & USA Class I, II, III, Groups A-G Hazardous Locations
NK		Intrinsic Safety ATEX II 1G, Ex ia IIC, -20°C, Ta <40°C
NX		Intrinsic Safety CANADA & USA Ex ia IIC; Class I, Zone 0; Class I, II, III, Groups A-G; NEMA Type 4, T4 at Ta=80°C, T5 at Ta=40°C
TW		Intrinsic Safety, Flameproof, Non-Sparking RUSSIA 0Ex ia IIC Ga X T4: -20°C ≤ Ta ≤ +80°C T5: -20°C ≤ Ta ≤ +40°C 1Ex d IIC Gb X T6: -20°C ≤ Ta ≤ +40°C 2Ex nA IIC Gc T4: -20°C ≤ Ta ≤ +80°C X

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Part Number Schema



Example: 5705AUSBHFTNKX

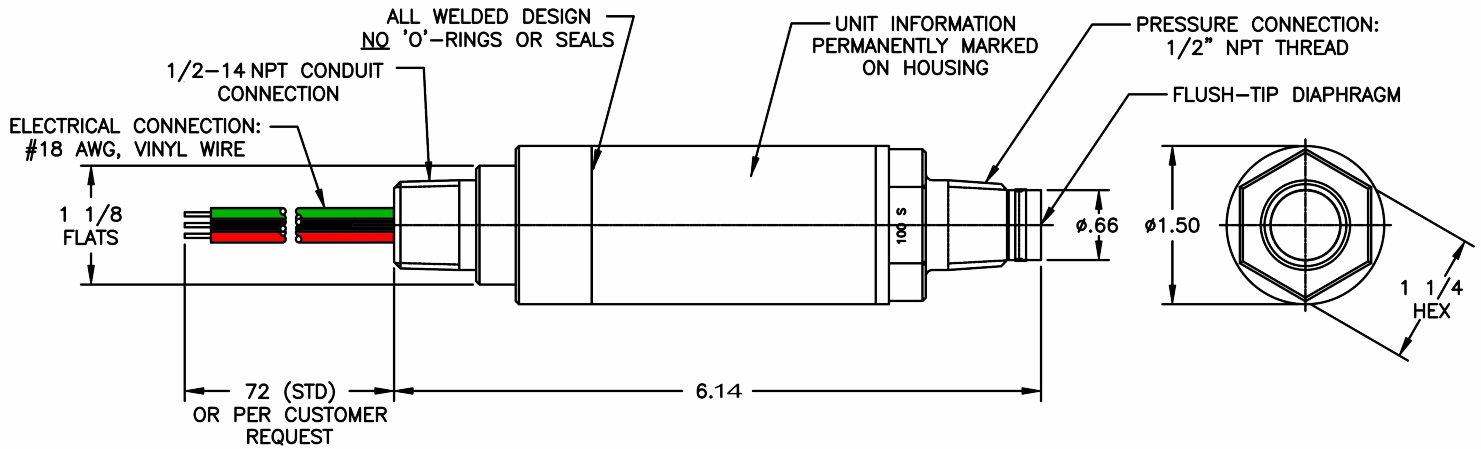


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DIMENSIONAL DATA

"ZY" ELECTRICAL CONNECTION (Standard)*



*Above "ZY" Configuration is required for Explosion Proof and Flame Proof applications

"BH" ELECTRICAL CONNECTION OPTION

