GEFRAN

TPF

PRESSURE TRANSDUCER WITH FLUSH MEASUREMENT DIAPHRAGM



Main features

- Pressure range: 0-10; 0-1000 bar / 0-150; 0-15000 psi
- Precision class: 0,3% beyond 50 bar; 0,6% up to 50 bar
- Entirely in stainless steel
- · Internally generated calibration signal
- Protection level: IP65

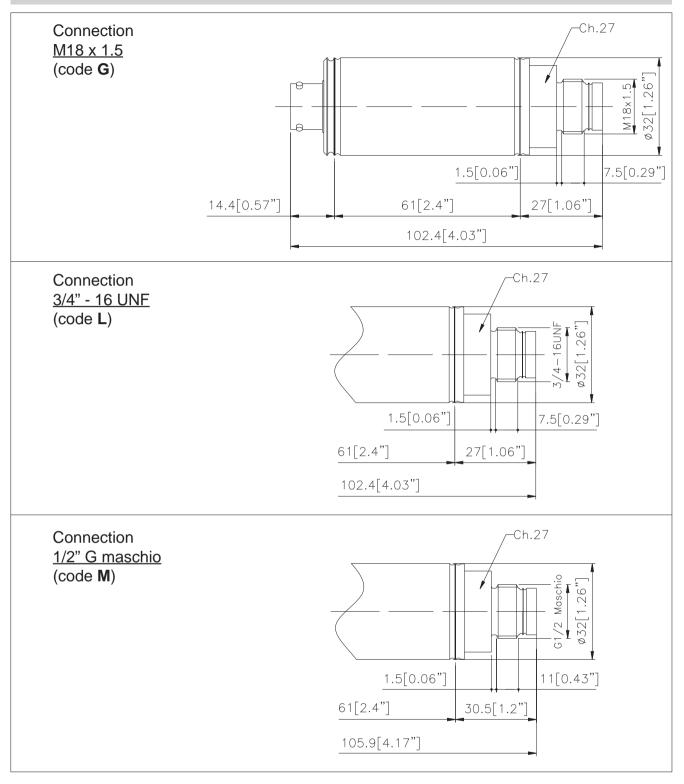
Series TPF transducers with flush measurement diaphragm are designed to check the pressure of high-viscosity fluids, which cannot be done with normal transducers with internal measurement chamber.

They are used in the food industry and in plastics processing, up to a temperature of 120°C, and in other applications in which the means of measurement must not stagnate in cavities.

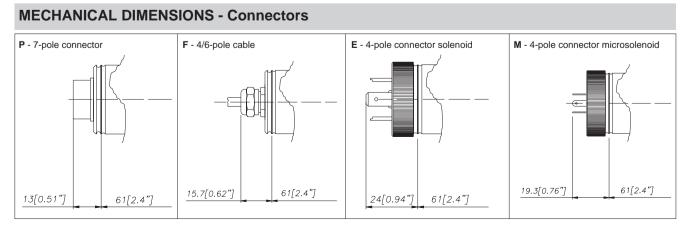
The selection of highly stable electronic components and ultrasonic checking of materials guarantee the absence of inclusions and defects on the primary reaction mechanics, assuring a highly reliable product.

TECHNICAL DATA		
Precision class (1)	< 0,3% FSO 0/600/1000 bar < 0,6% FSO 0/100/50 bar	
Resolution	infinite	
Pressure range	from 0/10 to 0/1000 bar from 0/150 to 0/15000 psi	
Max. applicable pressure (2) (20 sec. without degradation of the specific)	2 times Full Scale (max. 2000bar / 30000psi)	
Resistance to bursting	3 times Full Scale (max. 2000bar / 30000psi)	
Measurement principle	Metal strain gauge glued (4 active branches)	
Resistance of measurement bridge	350 (± 2%) Ohm	
Power supply	10 (max 15) Vdc/ac RMS	
Resistance of isolation	>1000 MΩ to 50Vdc	
Nominal pressure signal	3 (± 1%) mV/V (2001000bar / 300015000 psi) 2 (± 1%) mV/V (50160bar / 7501500 psi) 1,5 (± 1%) mV/V (1040bar / 150500 psi)	
Ambient pressure signal	±1% FSO	
Calibration signal	80% ± 1%	
Compensated temperature range	-20+100°C / -4+212°F	
Permitted temperature range	-30+120°C / -22+248°F	
Option cable F:	-30+100°C / -22+212°F	
Thermal drift in compensated range (zero - cal sens.)	ranges > 50bar (750psi) ±0,02% FSO/°C / ±0,01% FSO/°F ranges ≤ 50bar (750psi) ±0,03% FSO/°C / ±0,02% FSO/°F	
Materials in contact with measurement fluid	17- 4 PH stainless steel	
Case material	AISI 304 stainless steel	
Protection level	IP65	
Process connections	Standard: M18x1.5; on request: 3/4-16UNF, 1/2"G male	
Electrical connections	6-pole connector; other connectors on request	

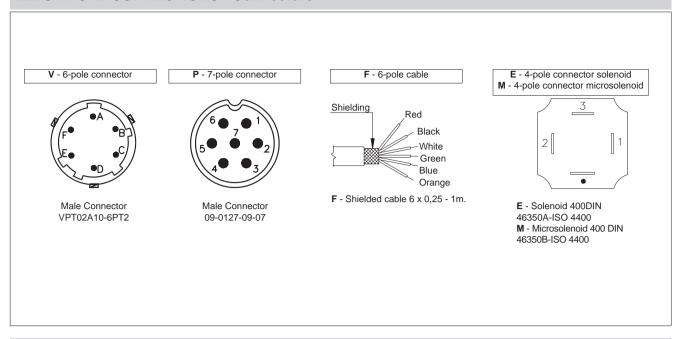
MECHANICAL DIMENSIONS - Process connections



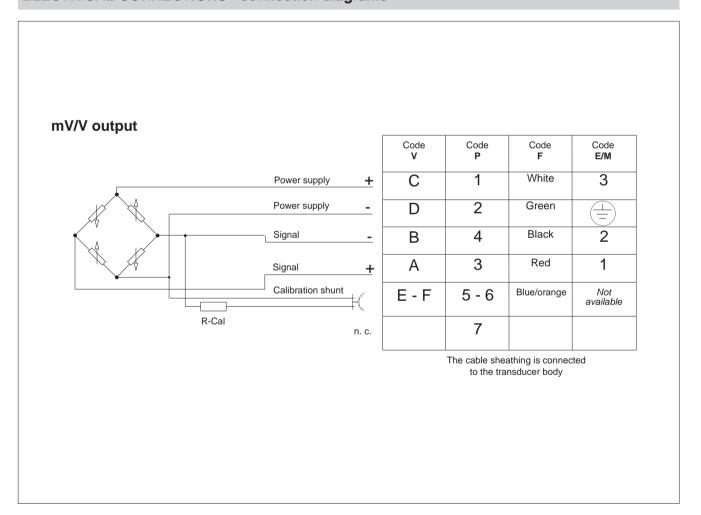
ATTENTION: For installation, use a maximum locking torque of 40Nm.



ELECTRICAL CONNECTIONS - Connectors



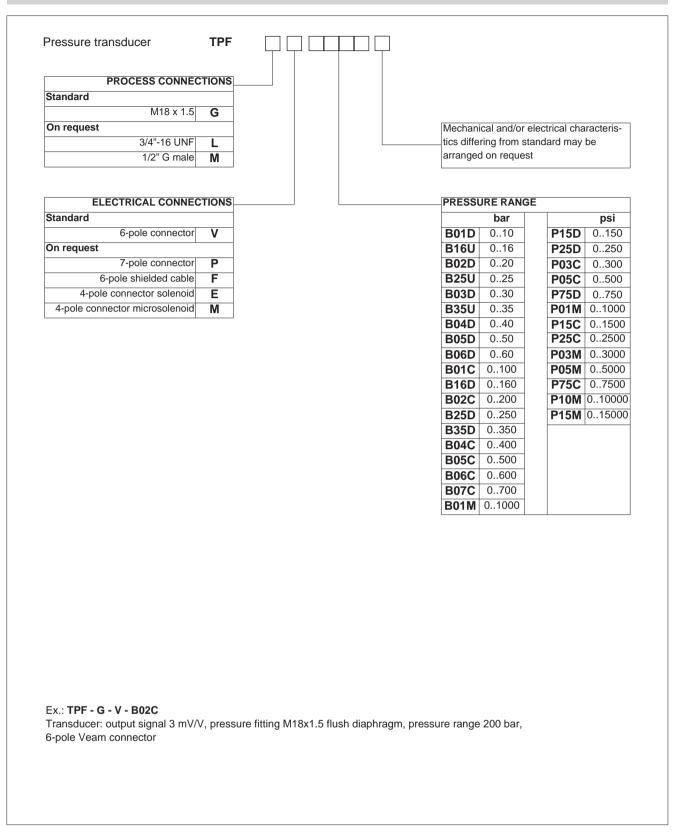
ELECTRICAL CONNECTIONS - connection diagrams



ACCESSORIES ON REQUEST

Connectors		
Connection V	CON 200	Connection E
Female cable connector Prot. IP66 Connection P	CON 300	Connector 3 poles + ground DIN43650A ISO4400 CON 006 Prot. IP65
Female cable connector Prot. IP40	CON 320	Connection M
Female cable connector 90° Prot. IP40 Female cable connector Prot. IP67	CON 322 CON 321	Connector 3 poles + ground DIN43650B ISO4400 CON 008 Prot. IP65

ORDER CODE



GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice



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