GEFRAN

TRANSDUCER FOR HIGH-PRESSURE



Main features

- Pressure range:
 - 0...1500 to 0...5000 bar / 0...20000 to 0...70000 psi
- Precision class: 0,3% FSO
- Entirely in stainless steel
- Internally generated calibration signal
- · "Autoclave" pressure fitting
- Protection level: IP65

Series TPH transducers are designed for applications in high-pressure hydraulic circuits.

It uses the extensimetric measurement principle with photoengraved metal leaf.

The 4 active elements configuration allows a signal of

2mV/V, maintaining conditions of stress with high coefficient of safety on the measurement diaphragm.

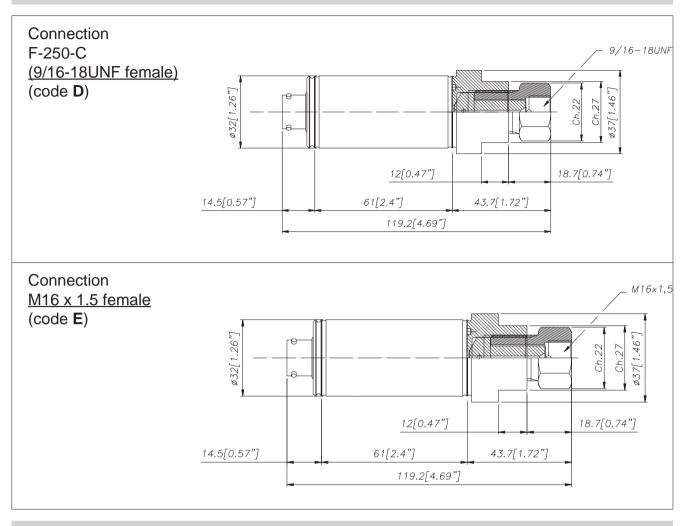
Careful selection and ultrasonic checking of materials used in machining guarantee the absence of inclusions and defects on the primary reaction mechanics, assuring a highly reliable product.

The autoclave process connection in the English version makes series TPH transducers suitable for applications in the most common high-pressure installations.

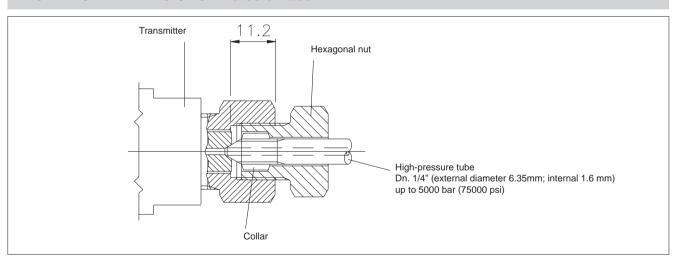
TECHNICAL DATA

Precision class (1)	< 0,3% FSO	
Resolution	infinite	
Pressure range	from 01500 to 05000 bar from 020000 to 070000 psi	
Max. applicable pressure (20 sec. without degradation of the specific)	2 times Full Scale (max. 6000bar / 86000psi)	
Resistance to bursting	3 times Full Scale (max. 6000bar / 86000psi)	
Measurement principle	Metal strain gauge glued (4 active elements)	
Resistance of measurement bridge	350 (± 2%) Ohm	
Power supply	10 (max 15) Vdc/ac RMS	
Resistance of isolation	>1000 MΩ a 50Vdc	
Nominal pressure signal	2 (± 1%) mV/V	
Ambient pressure signal	±1% FSO	
Calibration signal	80% ± 1%	
Compensated temperature range	0+80°C / 32+176°F	
Permitted temperature range	-30+120°C -22+248°F	
Option cable F:	-20+100°C -4+212°F	
Thermal drift in compensated range (zero - cal sens.)	< ±0,02% FSO/°C	
Materials in contact with measurement fluid	< ±0,01% FSO/°F	
Case material	15- 5 PH stainless steel	
Protection level	AISI 304 stainless steel	
Process connections -	IP65	
Electrical connections	Standard: F-250-C (9/16-UNF female); on request: M16x1.5 female	
	6-pole connector; other connectors on request	

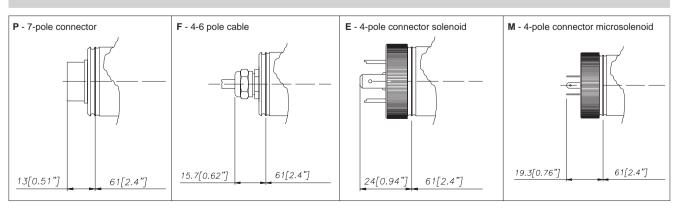
MECHANICAL DIMENSIONS - Process connections



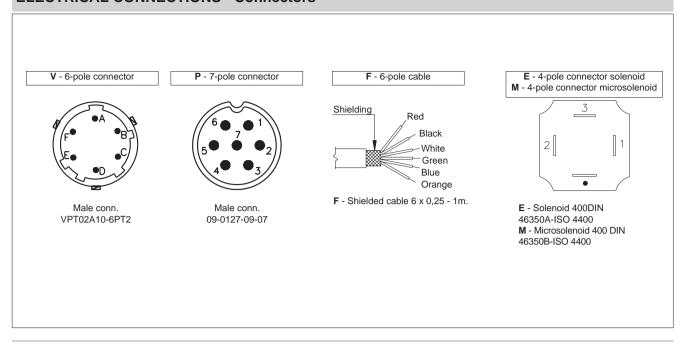
MECHANICAL DIMENSIONS - Notes on use



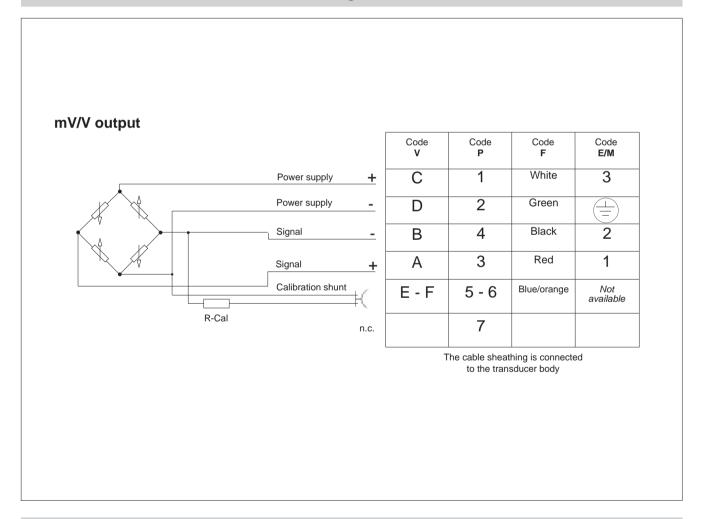
MECHANICAL DIMENSIONS - Connectors



ELECTRICAL CONNECTIONS - Connectors



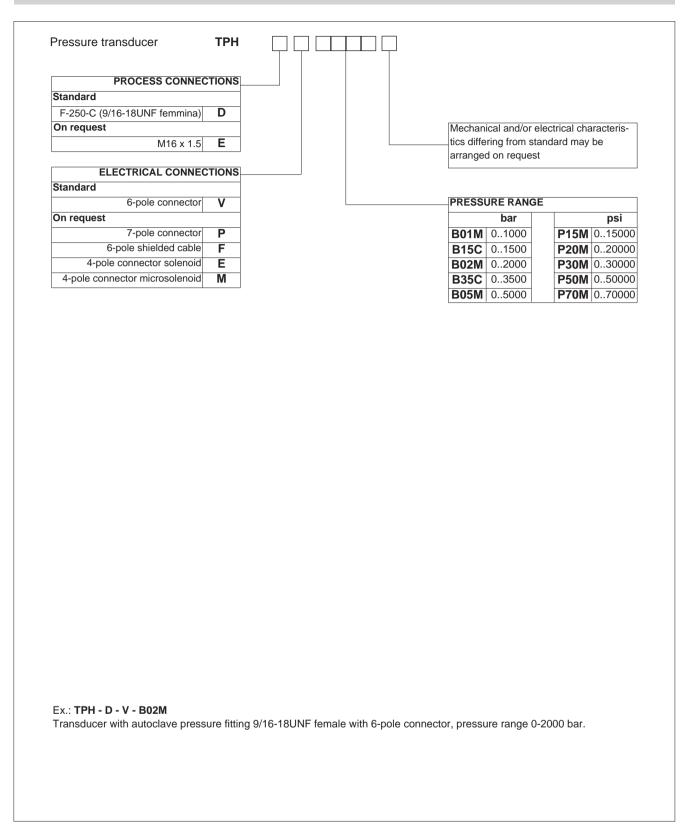
ELECTRICAL CONNECTIONS - connection diagrams



ACCESSORIES ON REQUEST

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

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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