

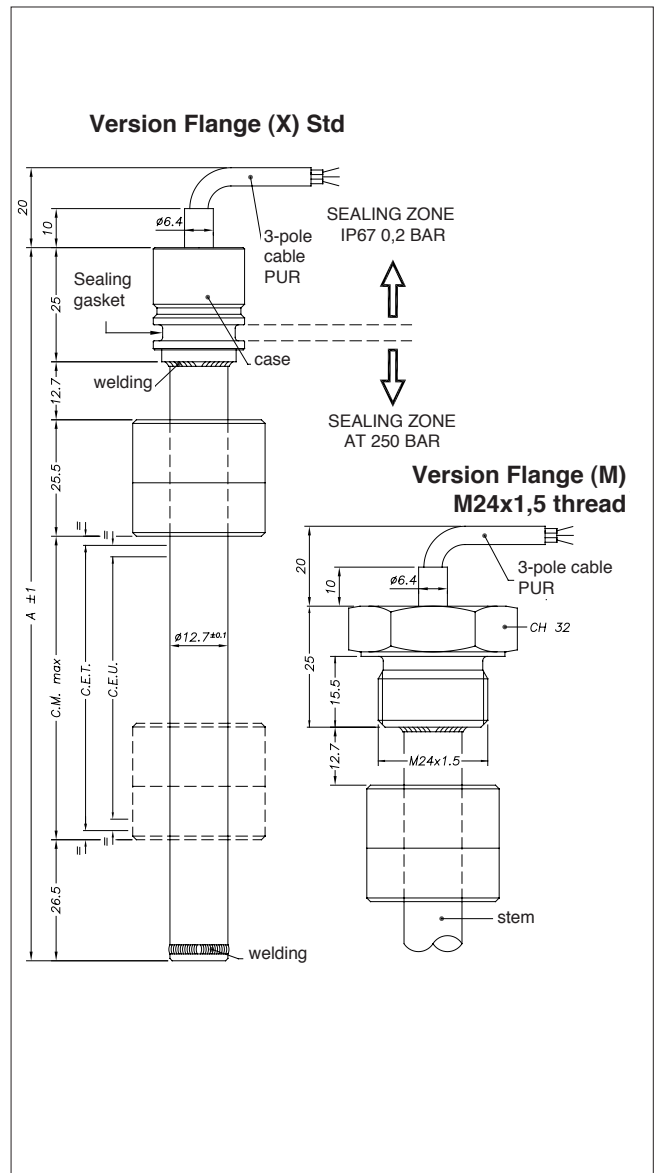
TECHNICAL DATA

Useful electrical stroke (C.E.U.)	50/100/150/200/250/300/350/400/450/500/550/600/750/800/850/900/950/1000
Independent linearity (within C.E.U.)	± 0.35%
Resolution	Infinite
Repeatability	≤ 0.08 mm
Hysteresis	< 250µm
Life	> 25x10 ⁹ m strokes, or > 100x10 ⁶ maneuvers, whichever is less
Electrical connection	1 mt. 3-pole shielded cable
Displacement speed	standard ≤ 5 m/s
Max. acceleration	≤ 10m/s ² max displacement
Cursor dragging force	≤ 0.5 N
Vibrations	5...2000 Hz, Amax = 0.75 mm amax = 20 g
Shock	50 g, 11 ms
Displacement sensitivity (no hysteresis)	from 0.05 a 0.1 mm
Tracking error	see table
Tolerance on resistance	± 20%
Recommended cursor current	< 0.1 µA
Maximum cursor current in case of bad performances	10 mA
Maximum applicable voltage	see table
Electrical isolation	> 100 MΩ at 500 V = 1 bar, 2 s
Dielectric strenght	< 100 µA at 500 V~ 50 Hz, 2 s, 1 bar
Dissipation at 40°C (0 W at 120°C)	see table
Thermal coefficient of resistance	-200...+200 ppm/°C typical
Actual Temperature Coefficient of the output voltage	≤ 5 ppm/°C typical
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Material for transducer case	AISI 304

Applicative characteristics

- The PMI-SL transducer, an evolution of the PMI-12, is designed for all inside cylinder applications which require a smaller transducer. For this reason, the diameter has been reduced to 12.7 mm.
- The PMI Slim offers the same robustness as the PMI-12: AISI 316 stainless steel body, IP67 protection level, and pressure resistance up to 250 bar (400 bar peak)
- Available with flanged or threaded heads, to guarantee mechanical compatibility with all main cylinder types
- Patented solution
- Ideal for applications inside hydraulic cylinders, demanding simple solutions which guarantee measurement repeatability

MECHANICAL DIMENSION

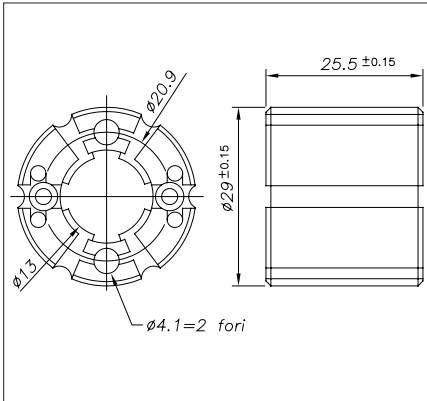


Important: all the data reported in the catalogue linearity and temperature coefficients are valid for sensor utilization as a ratiometric device with a max current across the cursor $I_c \leq 0.1 \mu A$.

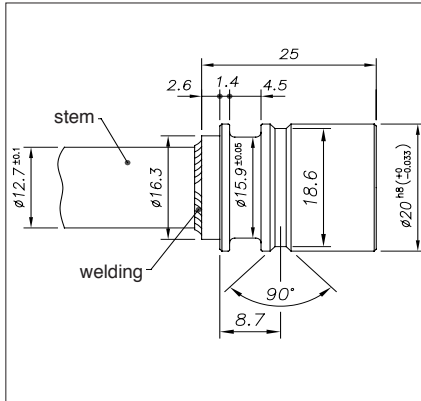
MECHANICAL / ELECTRICAL DATA

MODEL		50	100	150	200	250	300	350	400	450	500	550	600	750	800	850	900	950	1000
Useful electrical stroke (C.E.U.) + 1/-0	mm	Model																	
Theoretical electrical stroke (C.E.T.) ± 1	mm	C.E.U. + 1																	
Independent linearity (within C.E.U.)	± %	0.35																	
Dissipation at 40°C (0W at 120°C)	W	1	2																3
Max applicable voltage	V	40																60	
Resistance (C.E.T.)	kΩ	5					10					20							
Mechanical stroke (C.M.)	mm	C.E.U. + 5																	
Case Length "A" ± 1	mm	C.E.U. + 94.7																	

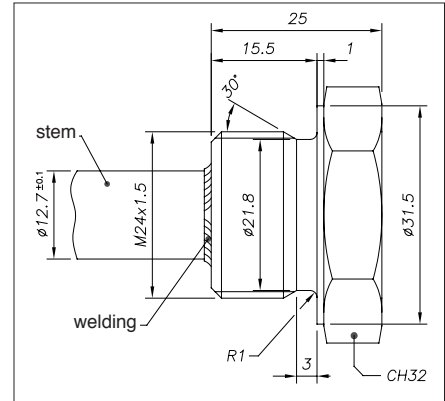
PCUR010 CURSOR



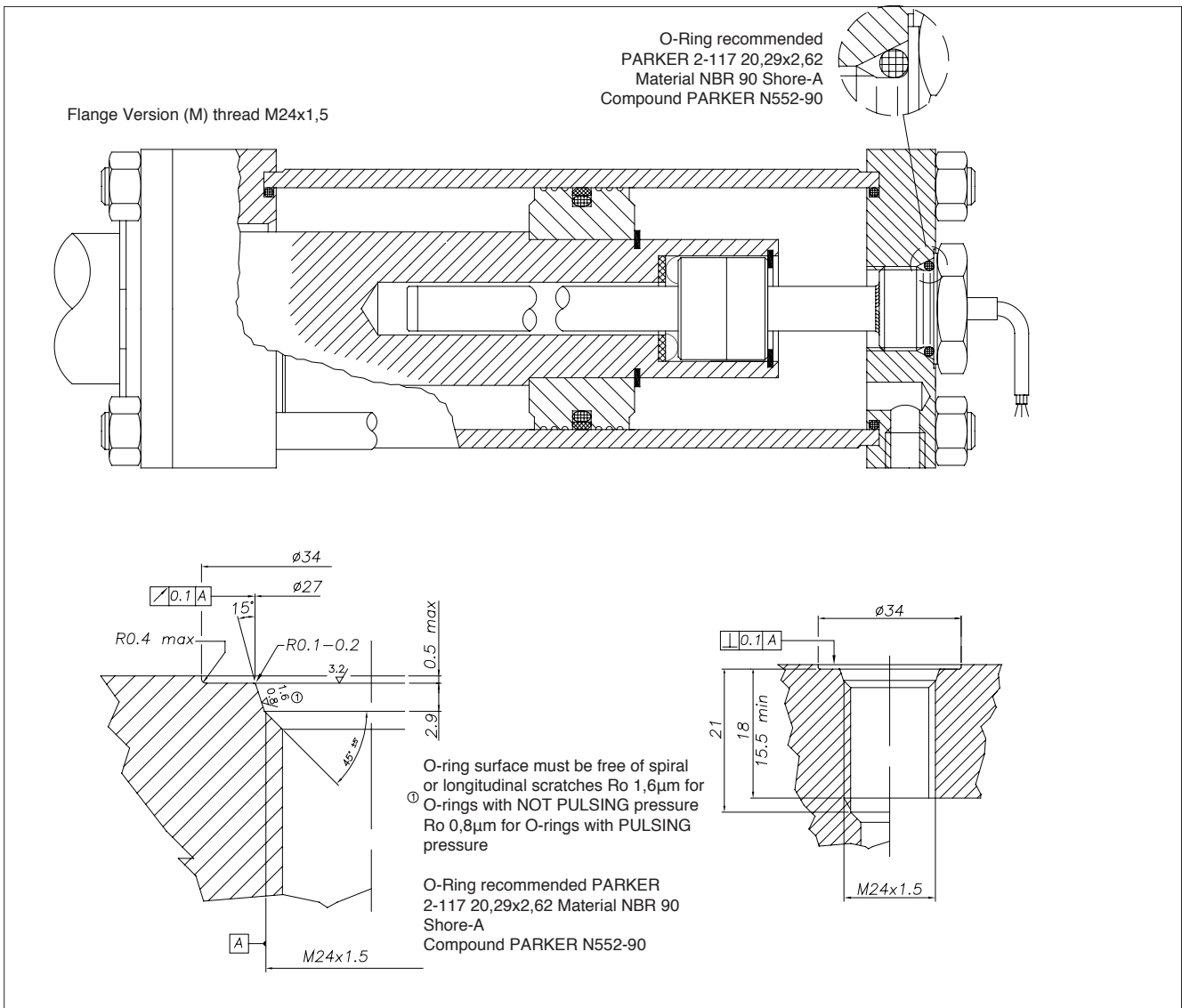
STANDARD FLANGE (X)



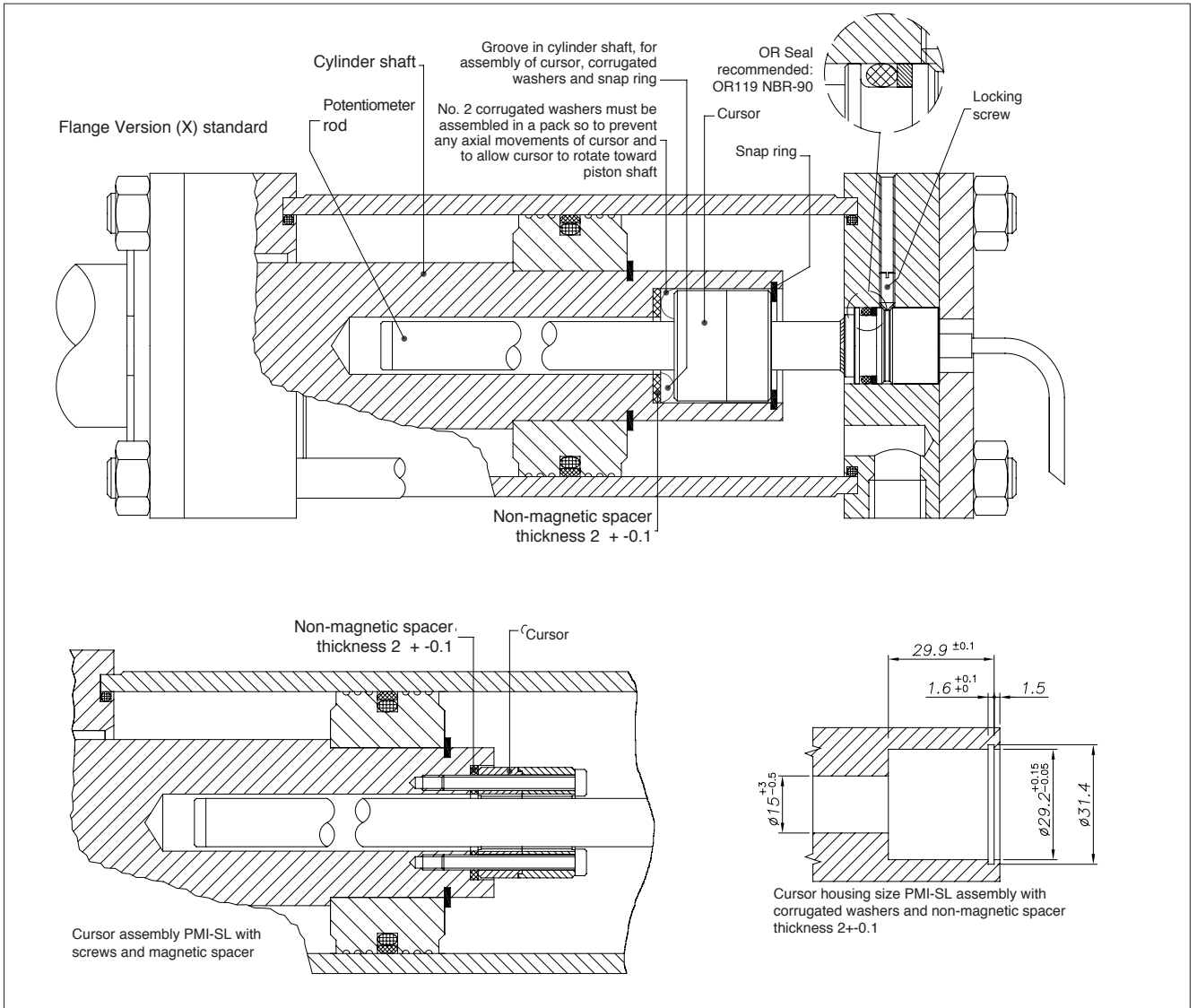
THREADED FLANGE (M)



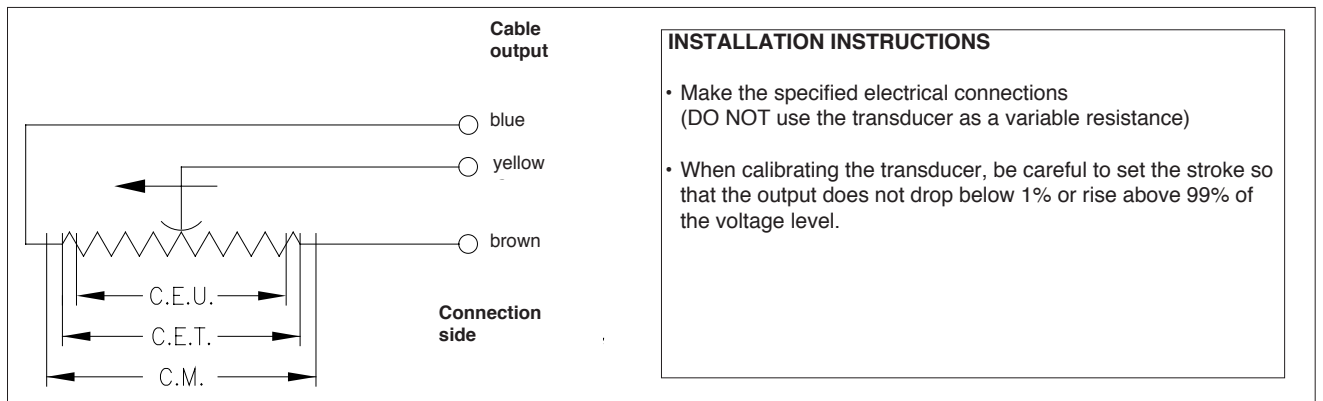
INSTALLATION INSIDE THE CYLINDER



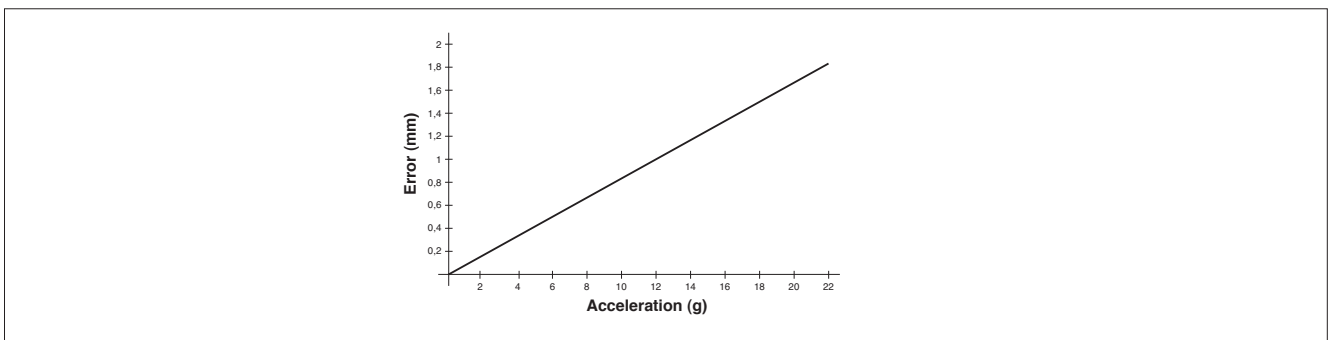
INSTALLATION INSIDE THE CYLINDER



ELECTRICAL CONNECTIONS



TRACKING ERROR



ORDER CODE

Displacement transducers

P M I S L

0 0 0 0 X 0 0 0 X X X X X

3-pole PUR cable output
3x0.25, 1 mt

F

No certificate attached

0

Linearity curve to be attached

L

Version F cable length

1 mt cable (standard)	00
2 mt cable	02
3 mt cable	03
4 mt cable	04
5 mt cable	05
10 mt cable	10
15 mt cable	15

Model

Standard flange

X

Threaded flange M24x1.5

M

Ex.: **PMI-SL-F-0400-X 0000X000XX00XXX**
PMI SL displacement transducer, cable output, useful electrical stroke (C.E.U.)
400mm, standard flange, no certificate attached, cable length 1 mt.

ACCESSORIES (standard)

Standard magnetic cursor

PCUR010

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