

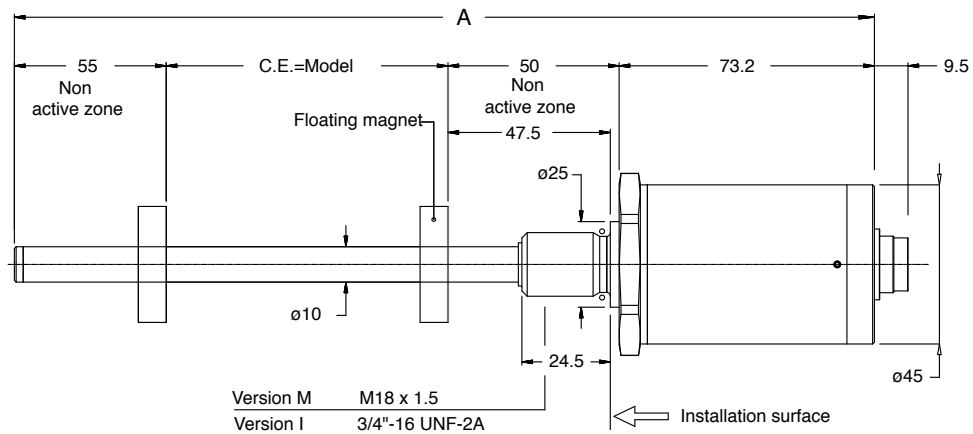


High accuracy of the measurement with reference to the non linearity, repeatability and hysteresis. High resistance to vibrations, mechanical shocks for use in a harsh industrial environment.

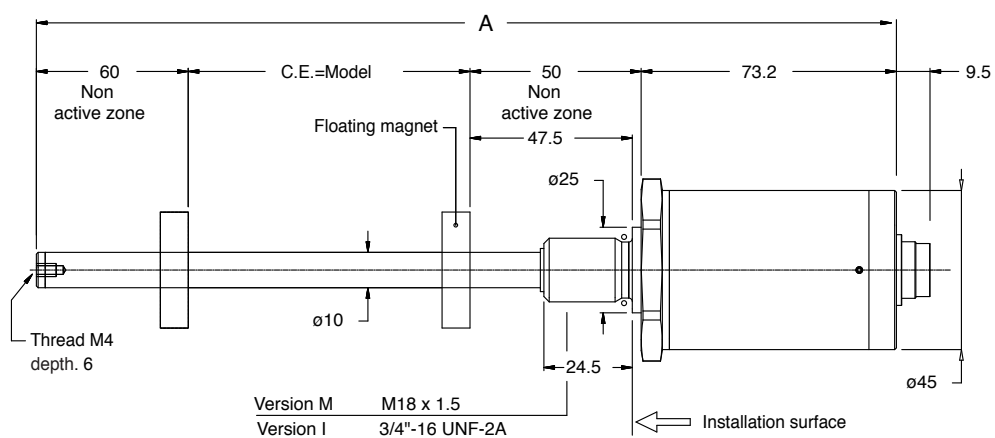
Model		50	100	130	150	200	400	450	500	600	700	750	800	900	1250	1500										
		225	300				1000																			
Sampling time	ms	1													1,5											
Dimensions Max. (A)	mm	Model +178.2													Model +183.2											
Electrical stroke	mm	Model																								
Independent linearity		$\leq \pm 0.04\% \text{ FS } (\min \pm 0.090 \text{ mm})$																								
Repeatability	mm	< 0.02																								
Hysteresis	mm	< 0.01																								

MECHANICAL DIMENSIONS

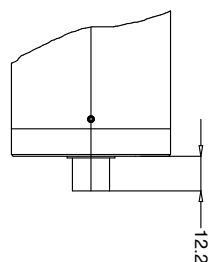
Strokes from 50 to 1000 mm



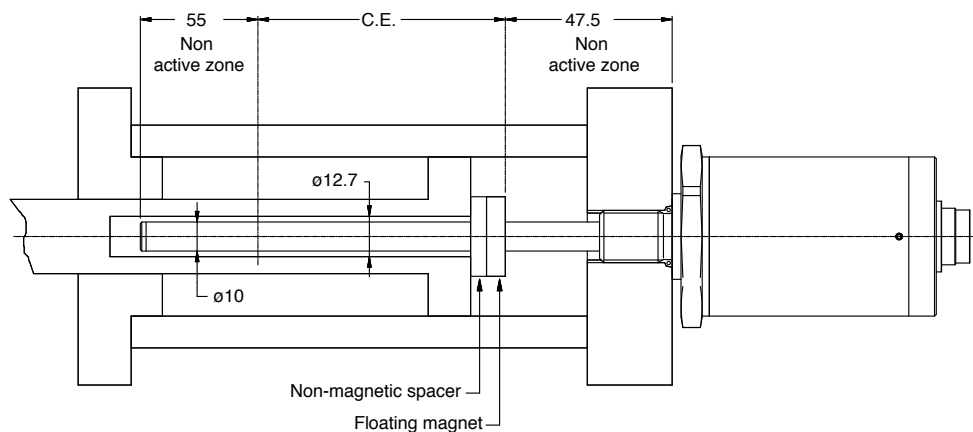
Strokes from 1250 to 1500 mm



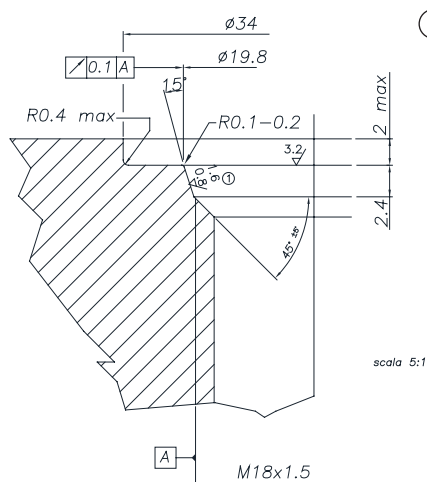
WRG-A-A/B connector output



MOUNTING INSIDE A CYLINDER



INSTALLATION INSIDE A CYLINDER

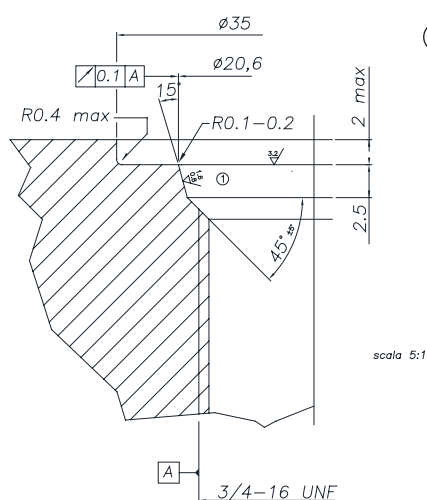
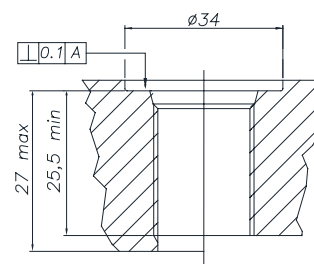


1 THREAD M18x1,5

The sealing surface must be free from scratches longitudinal or spiral
Ro 1.6 μm for sealing with NON-pulsating pressure
Ro 0.8 μm for seals with pulsating pressure

Suggested o-ring:

PARKER 6-349 15,4x2,1
Material: Viton 90° Shore-A
Mixes: PARKER N552-90

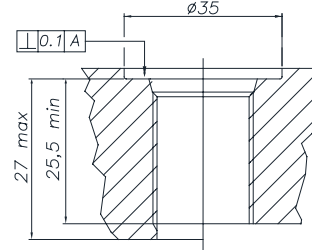


1 THREAD 3/4"-16UNF

The sealing surface must be free from scratches longitudinal or spiral
Ro 1.6 μm for sealing with NON-pulsating pressure
Ro 0.8 μm for seals with pulsating pressure

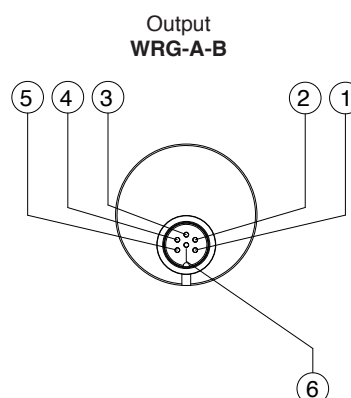
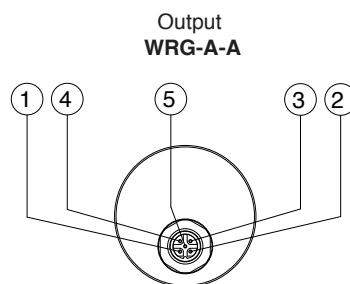
Suggested o-ring:

PARKER 3-908 16,36x2,21
Material: Viton 90° Shore-A
Mixes: PARKER N552-90



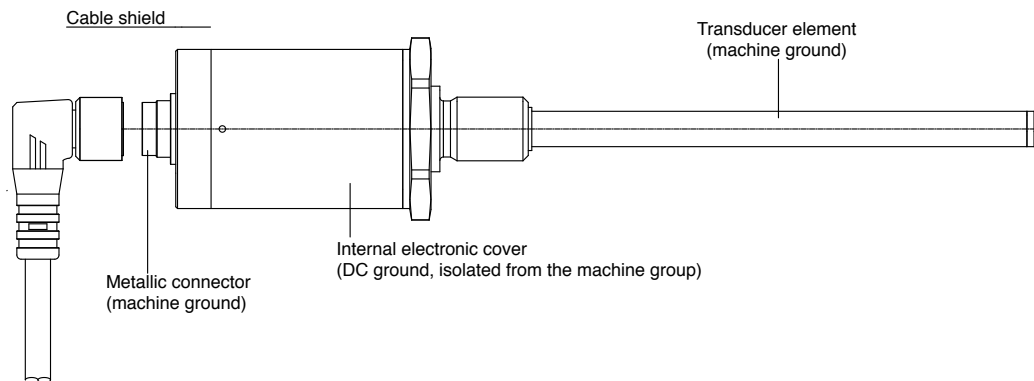
ELECTRICAL CONNECTIONS

Function	CONNECTORS	
	WRG-A-A	WRG-A-B
	5 pin M12	6 pin M16
Output 1 (position) 0...10V 4...20mA	1	1
GND Output 1 (0V)	2	2
Output 2 (inverse position) 10...0V 20...4mA	3	3
GND Output 2 (0V)	2	4
Power supply +	5	5
Power supply GND	4	6
n.c.	-	-
n.c.	-	-

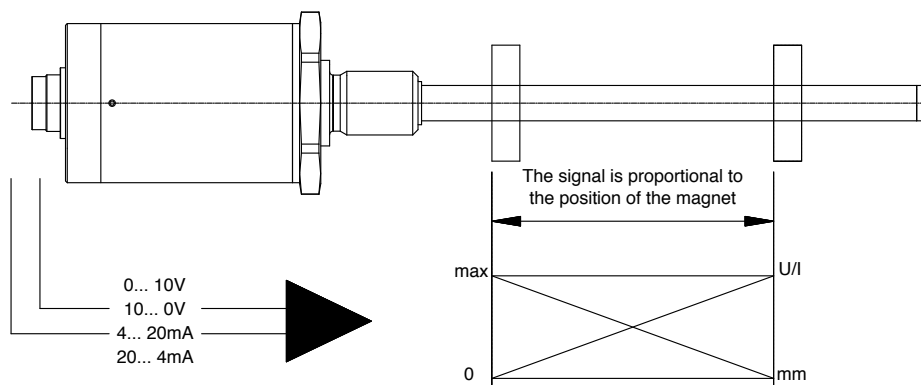


GROUNDING WRG-A

Connector output WRG-A



ANALOG OUTPUT



The magnetostrictive transducers of the WRG-A series supply a direct and reverse analogue output in voltage (0...10 / 10...0 Vcc) and current (4...20 mA / 20...4 mA). The outputs are direct, no signal conditioning is required if they are interfaced with a controller or measuring instrument.

ORDER CODE

Position transducer

W R G A 1

0 0 0 0 X X X X S 0 X X

Analog output **A**

Output Connector

M12 5 pin output connector	A
6 pin DIN 45322 output connector	B
8 pin DIN 45326 output connector	C
M12 8 pin output connector	H
PVC output cable	F
PUR output cable high flexibility	R

MODEL

Output

0...10, 10...0 Vcc	A
4...20, 20...4 mA	E
0...20, 20...0 mA	G

Cable lenghts

Output F/R 1 mt	00
2 mt	02
3 mt	03
4 mt	04
5 mt	05
10 mt	10
15 mt	15
Output A/B/C/H	00

Thread

M 18x1.5 (standard)	M
3/4" - 16UNF	I

► Included in the supply

- Series WR position transducer
- OR 15.4 x 2.1 thread M18 x 1.5 cod: **GUA064**
- OR 16.36 x 2.21 thread 3/4" -16 UNF cod: **GUA065**

► Magnetic cursors must be ordered separately

Mechanical and/or electrical characteristics differing from those in the standard version may be arranged on request.

Ex.: **WRG-A-B-0400-A-1 0000XXXXS00M0XX**

Transducer model WRG, analog output, B connector, model 400mm, 0...10Vdc output, thread M18x1,5

FLOATING CURSOR



Cursors

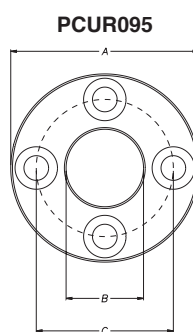
Cursor Diameter 32.8	095
Cursor Diameter 32.8 with 90° slit	096
Cursor Diameter 25.4	097
Floating cursor for liquids with hole diameter 12	098

The **PCUR095** is supplied with:
 N° 8 Brass nuts M4
 N° 8 Brass washers D4
 N° 4 Brass screws M4x25

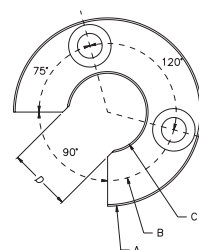
The **PCUR096** is supplied with:
 N° 4 Brass nuts M4
 N° 4 Brass washers D4
 N° 2 Brass screws M4x25

Dimensions	A	B	C	D	Thickness
PCUR095	32.8	13.5	23.9	-	7.9
PCUR096				11	
PCUR097	25.4	13.5		-	

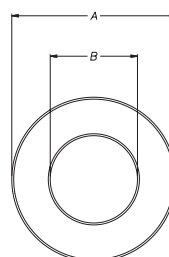
Model		PCUR098
Length A	mm	52.4
Diameter B (hole)	mm	12
Diameter C	mm	44
Material		AISI 316



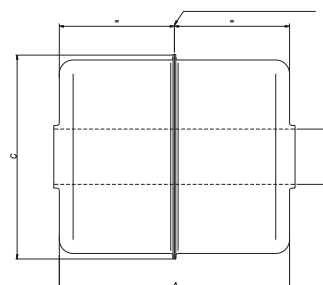
PCUR096



PCUR097



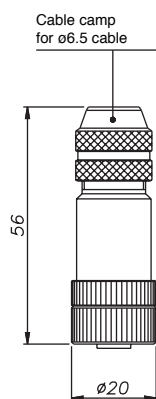
HEIGHT DETECTION POSITION



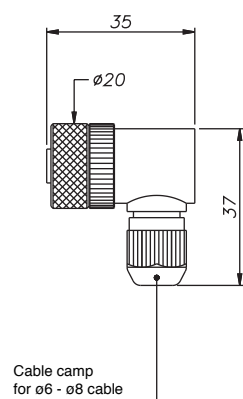
Note: PCUR098 is supplied with kit PKIT036 for floating cursor for liquids.

OPTIONAL CONNECTORS (to order separately)

For **WRG-A-A**, M12 thread connector
 CON031 and CON041 for 5 pin output (WRG-A-A)

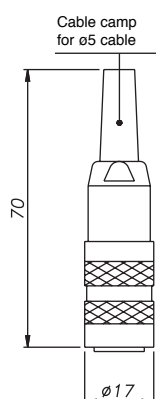


CON031
IP67 - IEC 48B

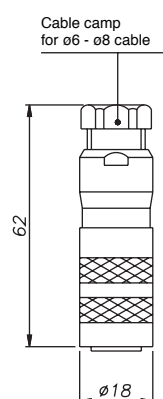


CON041
IP67

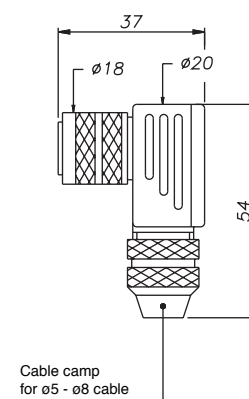
For **WRG-A-B**, M16 thread connector
 CON021, CON022 and CON023 for 6 pin output (WRG-A-B)



CON021
IP40 - EMC



CON022
IP67 - EMC



CON023
IP67 - EMC

OPTIONAL OUTPUT CABLES (to order separately)

For **WRG-A-A**, cable with connector (straight or 90°) with M12 thread 5 pin

Lenght "L"		CODE	
		Straight cable	Cable to 90°
2	mt	CAV011	CAV021
5	mt	CAV012	CAV022
10	mt	CAV013	CAV023
15	mt	CAV015	CAV024

ACCESSORIES (to order separately)

Non-magnetic spacer for mounting PCUR022 cursor

CUR022

Sensors are manufactured in compliance with:

- EMC 2014/30/EU compatibility directive
- RoHS 2011/65/EU

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

GEFRAN spa reserved the right to make aesthetic or functional changes at any time and without notice.