


P.A. – S.p.A. – EQUIPAGGIAMENTI TECNICI DEL LAVAGGIO

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PR5 – PRESSURE SWITCH with electric signal

Technical manual: E 802

Electro-mechanical device, which, upon reaching a pre-set pressure, opens or closes an electrical control contact .



- Microswitch with very high resistance openings
- Considerable resistance to high current values.
- Compact overall dimensions
- Electrical insulation: **IP55**
- Possibility to choose from 4 different pressure settings acting on the electrical switch.
- Three core cable.
- Two threaded connection versions.

• 29.0080.00	PR5	G1/4M	rated 25bar – 2.5MPa
• 29.0080.05	PR5	G1/8M	rated 15bar – 1.5MPa
• 29.0080.10	PR5	G1/4M	rated 15bar – 1.5MPa
• 29.0080.18	PR5	G1/8M	rated 25bar – 2.5MPa
• 29.0080.50	PR5	G1/4M	rated 40bar – 4 MPa
• 29.0080.55	PR5	G1/8M	rated 40bar – 4 MPa
• 29.0080.75	PR5	G1/8M	rated 10bar – 1 MPa
• 29.0080.80	PR5	G3/8M	rated 40bar – 4 MPa
• 29.0080.85	PR5	G3/8M	rated 25bar – 2.5MPa
• 29.0080.88	PR5	G1/4M	rated 15bar – 1.5MPa
• 29.0076.15	PR5	G3/8MF	rated 15bar – 1.5MPa
• 29.0077.15	PR5	G3/8MF	rated 15bar – 1.5MPa

TECHNICAL SPECIFICATIONS

PART NUMBER	PERMISSIBLE PRESSURE bar - MPa	INTERVENT. PRESSURE bar - MPa	COLOR	DIFFERENT. WORKING PRESSURE bar - MPa	(1) MAX. TEMP OF THE FLUID °C	INLET	WEIGHT g
29.0080.00	350 - 35	25 – 2.5	RED	±8	90	G 1/4 M	130
29.0080.05	350 - 35	15 – 1.5	BLUE	±6	90	G 1/8 M	130
29.0080.10	350 - 35	15 – 1.5	BLUE	±6	90	G 1/4 M	130
29.0080.18	350 - 35	25 – 2.5	RED	±8	90	G 1/8 M	130
29.0080.50	350 - 35	40 - 4	BLACK	±10	90	G 1/4 M	130
29.0080.55	350 - 35	40 - 4	BLACK	±10	90	G 1/8 M	130
29.0080.75	350 - 35	10 - 1	YELLOW	±4	90	G 1/8 M	130
29.0080.80	350 - 35	40 - 4	BLACK	±10	90	G 3/8 M	130
29.0080.85	350 - 35	25 – 2.5	RED	±8	90	G 3/8 M	130
29.0080.88	350 - 35	15 – 1.5	BLUE	± 6	90	G 1/4 M	130
29.0076.15	350 - 35	15 – 1.5	BLUE	±6	90	G 3/8 MF	220
29.0077.15	350 - 35	15 – 1.5	BLUE	±6	90	G 3/8 MF	230

ELECTRICAL SPECIFICATIONS

Max rated voltage:	250 V
Breaking switch:	6 (A) – resistive load - 2 (A) – inductive load
Cable length :	1000 mm – Electric wire : 3 x 0.75 mm ²
Environment temp.:	75 °C – Type of action: 1C
Lifetime electrical component:	50.000 commutations, T.85°C, a 250V a.c.in line with CEE 24- VDE 0630
Pollution situation of the device control:	High

(1) The Pressure switch has been designed for a continuous use at a water temperature of 60°C. It can resist for short periods at a maximum temperature of 90°C.

Instruction manual, maintenance, installation, spare parts.

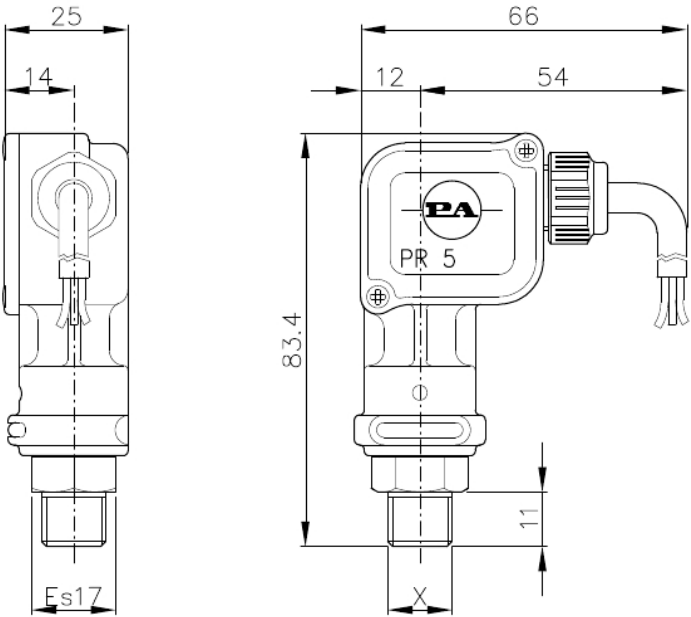
For a correct utilization, follow the directions of this manual.

Re-print them on the use and maintenance booklet of the machine

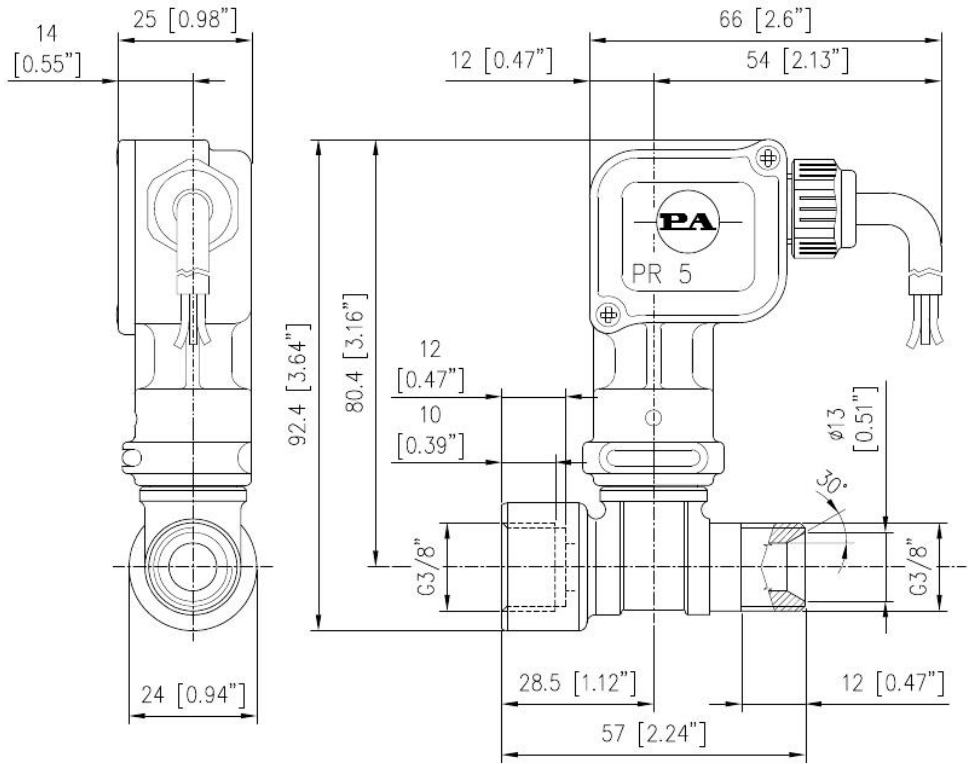
n. 12.9802.00

DIMENSIONAL DRAWING

CODICE CODE	X
29.0080.00	G 1/4 M
29.0080.05	G 1/8 M
29.0080.10	G 1/4 M
29.0080.18	G 1/8 M
29.0080.50	G 1/4 M
29.0080.55	G 1/8 M
29.0080.75	G 1/8 M
29.0080.80	G 3/8 M
29.0080.85	G 3/8 M
29.0080.88	G 3/8 M



COD 29.0076.15



The PR5 Pressure switch signals the surpass of a pre-set pressure, through a piston, which operates a switch lever. The set pressures are respectively; 10 bar – 1 MPa; 15 bar – 1.5 MPa; 25 bar – 2.5 MPa and 40 bar – 4 MPa of the fixed type.

PROBLEMS AND SOLUTIONS

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Pressure switch does not function	Electric connection faulty or loose Rupture of microlever Rupture of piston spring Rupture of microcontacts Jammed piston	Check and/or replace Replace microswitch Replace Replace microswitch Check and/or replace
Fluid in the casing	Damaged piston seals Damaged nut seals	Check and/or replace Check and/or replace

REGULATIONS :

The accessory hereby described bears the CE marking in accordance with the Norms and Directives applied on the **Declaration of Conformity**.

For a correct utilization, follow the directions described in this manual and re-print them on the Use and maintenance manual of the machine

Make sure that you are given the Original Conformity Declaration for the accessory chosen. The present manual is valid for all Pressure switches named **PR5**

SPARES

Use only original PA spares, in order to benefit for a correct function and long reliability.

MAINTENANCE

STANDARD: every 400 working hours (circa 10,000 cycles), check and lubricate the seals with water resistant grease.

SPECIAL: every 800 working hours (circa 20,000 cycles), control the wear of the seals and internal parts and if necessary, replace with original PA parts taking care during installation and to lubricate with water resistant grease.

Maintenance has to be carried out by Specialized Technicians

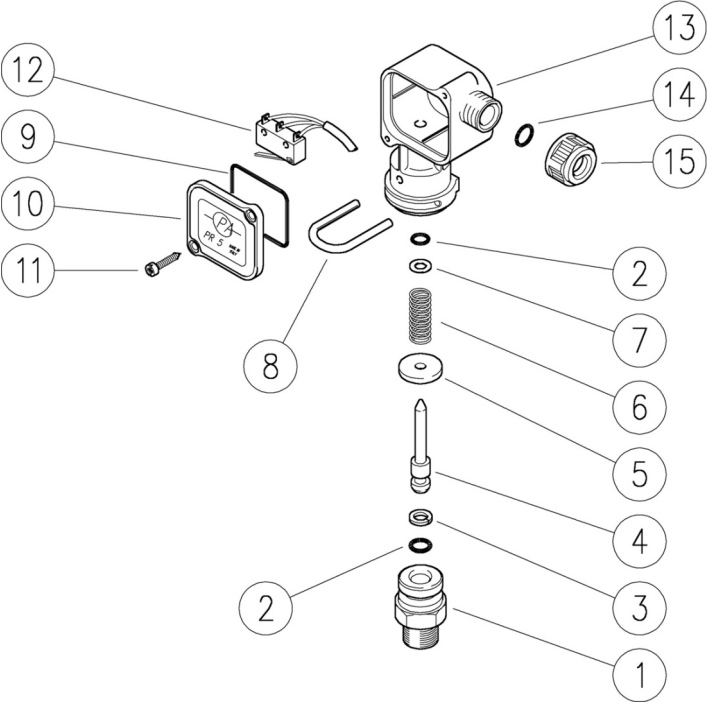
For a correct assembly, follow the phases indicated on the exploded view referred.

The manufacturer is not to be considered responsible for damage as a result from incorrect fitting and maintenance

Technical data, descriptions and illustrations are indicative and liable to modification without notice

29.0080.00 PR5 press.sw.,brass,1/4M Bsp 25bar red
29.0080.10 PR5 press.sw.,brass,1/4M Bsp 15bar blue
29.0080.50 PR5 press.sw.,brass,1/4M Bsp-4MPa-black

29.0080.75 PR5 press.sw.,brass,1/8M Bsp 10bar yell.
29.0080.80 PR5 press.sw.,brass,3/8M Bsp 40bar black



Pos.	P/N	Description	Q.ty	K1	K2	K3	K4	
1	29.0081.31R	Housing, 1/4M Bsp brass	1					5
1	29.0091.31R	Housing -PR5, 1/8M Bsp brass (1)	1					3
1	29.0044.31R	Housing, 3/8M Bsp brass (2)	1					5
2	10.3038.00R	O-ring, 1,78x3,68 mm	2	•				10
3	10.4002.00R	Back-up ring, opn. 4,2x7x1,5 mm	1	•				10
4	29.0090.31R	Piston -PR5, brass	1					10
5	29.0086.31R	Washer, 4x16x2,5 mm brass	1					10
6	29.0085.61R	Spring, 25Bar-1,4x8x18 mm (3)	1					10
6	29.0084.61R	Spring, 40Bar-1,6x8x18 mm (4)	1					10
6	29.0094.51R	Spring, 15Bar 1,3x6,7x18mm Sst. (5)	1					10
6	29.0112.51R	Spring, 1,2x8x18 mm Sst. (1)	1					10
7	14.3519.00R	Washer, 4x8x0,5 mm brass	1					10
8	29.0087.51R	U-bolt, Sst.	1					10
9	10.3206.01R	O-ring, 2,62x28,25 mm	1	•				10
10	29.0088.84R	Lid, PR5 PA black	1					10
11	16.3020.00R	S/tapp. screw, 2,5x12mm chrom	2					10
12	12.5006.00R	Cable, 3x0,75 L.1000 mm+ Microswitch	1					5
13	29.0089.84R	Housing, PR5 PA black	1					10
14	10.3169.00R	O-ring, 2,62x6,02 mm	1	•				10
15	29.0082.84R	Locknut for cable gland, PA black	1					10
15	29.0109.84R	Locknut for cable gland, PA red	1					10
15	29.0110.84R	Locknut for cable gland, PA blue	1					50
15	29.0111.84R	Locknut for cable gland, PA yellow (1)	1					10

Kit	P/N	Description	
K1	29.0095.24	Spares kit - PR5, 5x10pcs.	1

(1) 29.0080.75 (2) 29.0080.80 (3) 29.0080.00 (4) 29.0080.50 (5) 29.0080.10