



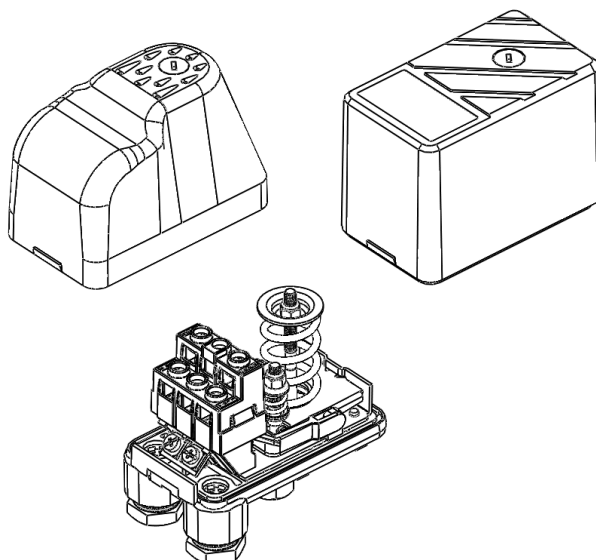
PRESSURE SWITCHES FOR ELECTRIC WATER PUMPS

PM-PT series

DESCRIPTION:

Electro-mechanical pressure switches for application with electric pumps for water (irrigation, pressurization, boosting).

- Different connections and pressure ranges available
- Single phase and three-phase versions
- N.C. contacts
- IP 44 protection degree (IP 54 upon request)



FUNCTIONING:

The device switches the internal contacts when set minimum and maximum pressure values are reached.

COMPLIANCE:



according to: EN 60730-1
EN 60730-2-6
EN 63000(RoHS)

SELECTION TABLE:

	Maximum operating pressure	
	500kPa (5 bar)	1200 kPa (12 bar)
Single phase	PM/5	PM/12
Three phase	PT/5	PT/12

TECHNICAL DATA:

MECHANICAL SPECIFICATIONS PM/5 – PT/5 :

Parameter	Min.	Typical	Max.	Unit
Max. working pressure		5		Bar
Bursting pressure		20		Bar
Pressure setting range		1÷5		Bar
Operational ambient temperature				
- 16(10) A standard execution	0		55	°C
- 20(16) A optional version	0		45	°C
Fluid temperature range	5		55	°C
Minimum differential		0,6	0,8	Bar
Maximum differential		2,3		Bar
Hydraulic connection (standard)	UNI-ISO228-1 1/4"Female			



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MECHANICAL SPECIFICATIONS PM/6 – PT/6 :

<i>Parameter</i>	<i>Min.</i>	<i>Typical</i>	<i>Max.</i>	<i>Unit</i>
Max. working pressure		6		Bar
Bursting pressure		20		Bar
Operational ambient temperature	0		55	°C
Fluid temperature range	5		55	°C
Pressure setting range		1,5÷5,5		Bar
Minimum differential		0,8	1,0	Bar
Maximum differential		2,2		Bar
Hydraulic connection (standard)	UNI-ISO228-1 ¼"Female			

MECHANICAL SPECIFICATIONS PM/12 – PT/12 :

<i>Parameter</i>	<i>Min.</i>	<i>Typical</i>	<i>Max.</i>	<i>Unit</i>
Max. working pressure		12		Bar
Bursting pressure		20		Bar
Operational ambient temperature	0		55	°C
Fluid temperature range	5		55	°C
Pressure setting range		3÷12		Bar
Minimum differential		1,5	1,7	Bar
Maximum differential		5,0		Bar
Hydraulic connection (standard)	UNI-ISO228-1 ¼"Female			

ELECTRICAL SPECIFICATIONS PM/5 – PM/12 (single-phase):

<i>Parameter</i>	<i>Min.</i>	<i>Typical</i>	<i>Max.</i>	<i>Unit</i>
Rated maximum voltage		250		Vac
Rated maximum current				
- standard execution		16(10)		A
- optional execution		20(16)		A
Rated frequency		50/60		Hz
Protection degree IP (according to IEC 60529)		IP 44		

ELECTRICAL SPECIFICATIONS PT/5 – PT/12 (three-phase):

<i>Parameter</i>	<i>Min.</i>	<i>Typical</i>	<i>Max.</i>	<i>Unit</i>
Rated maximum voltage		500		Vac
Rated maximum current				
- standard execution		16(10)		A
- optional execution		20(16)		A
Rated frequency		50/60		Hz
Protection degree IP (according to IEC 60529)		IP 44		



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ENDURANCE :

<i>Parameter</i>	<i>Value</i>
Mechanical life at maximum rated pressure – Tamb 20°C	> 500.000 cycles
Electrical life at maximum rated current (resistive load) – Tamb 20°C	300.000 cycles
Electrical life at maximum rated current (inductive load) – Tamb 20°C	50.000 cycles

MATERIALS :

<i>Component</i>	<i>Material</i>
Connection flange	Galvanized steel
Connection threaded fitting	Galvanized steel
Diaphragm	NBR white

MATERIALS (ACS approved models only) :

<i>Component</i>	<i>Material</i>
Connection flange	Stainless steel AISI 304
Connection threaded fitting	Stainless steel AISI 304
Diaphragm	EPDM EFFBE® 7025 04 EP



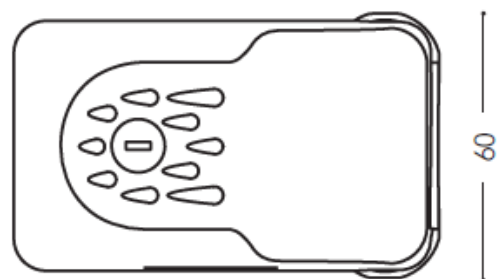
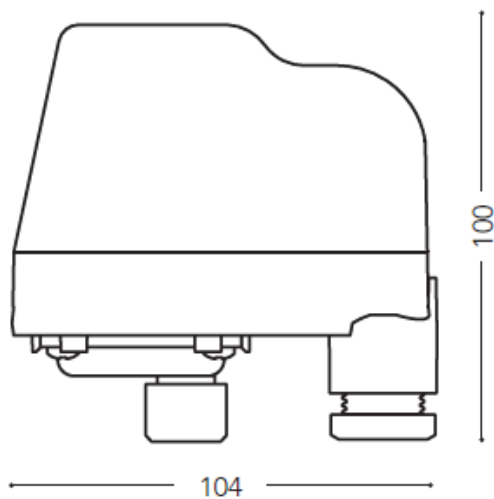
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OPTIONALS:

- Stainless steel connection - ACS (France) approved
- Cut-in value indication scale
- Electric cables
- ON-OFF button
- 20(16)A rated electric contacts
- IP 54 protection degree
- Customized pressure settings

OVERALL DIMENSIONS:

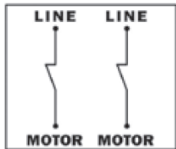




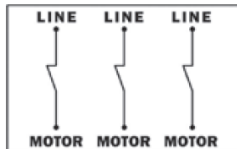
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CONTACTS CONFIGURATION:



PM



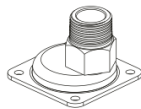
PT

AVAILABLE PROCESS CONNECTIONS:

MASCHIO / MALE

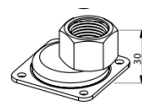
1/2" G

M
maschio
male



FEMMINA / FEMALE

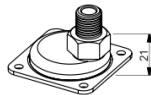
F
femmina
female



MASCHIO / MALE

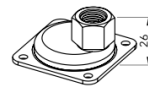
1/4" G

M
maschio
male

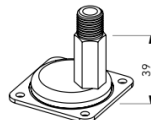


FEMMINA / FEMALE

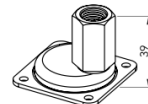
F
Inox/Stainless steel FX
femmina
female



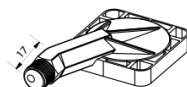
ML
maschio prolungato
long male



FL
femmina prolungato
long female



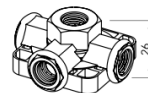
L
maschio laterale
side male



FG
Inox/Stainless steel FGX
femmina girevole
female revolving nut

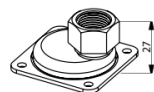


3/8" G

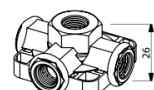


4V
femmina
female
4 vie 1/4"
4 ways 1/4"

FEMMINA / FEMALE



FG
femmina girevole
female revolving nut



4V
femmina
female
3 vie 1/4" + 1 via 3/8"
3 way 1/4" + 1 way 3/8"