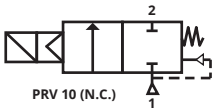
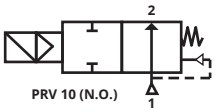
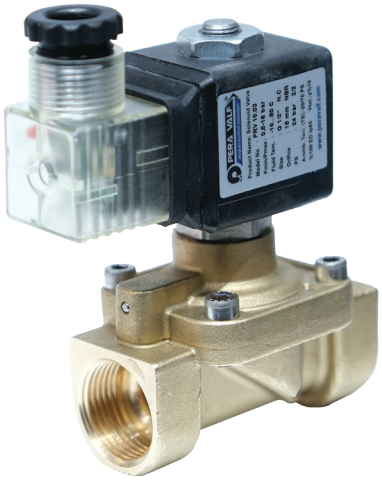
TECHNICAL SPECIFICATIONS, DESCRIPTIONS and GENERAL FEATURES







* **Fluids:** Valves are suitable for water, low viscosity oils etc... non-aggressive liquids and Air, Inert Gas etc... gaseous but is not suitable for hazardous fluids
* **Switching Function:** Normally Closed (N.C., Closed when de-energised) [PRV 10 Series] and Normally Open (N.O., Open when de-energised) [PRV 11 Series]
* **Principle of Operation:** Pilot Operated
* **Way Number:** 2/2 (Ports / Positions)
* **Connection and Port Sizes:** G1/8" and G2"
* **Connection Type:** Thread (Female), G (BSPP / ISO 228-1)
* **Pressure Range:** 0,35-16 Bar (1/8" up to 1" PRV 10 Series), 0,5-12 Bar (1-1/4" up to 2" PRV 11 Series), 0,35-12 Bar (1/8" up to 1" PRV 11 Series), 0,5-10 Bar (1-1/4" up to 2" PRV11 Series)
* **Fluid Temperature:** -10 °C to max 80 °C
* **Ambient Temperature:** -20 °C to max 70 °C
* **Opening Time:** 200 ms up to 1500 ms
* **Closing Time:** 500 ms up to 2000 ms
* **Max. Viscosity:** 38 cSt or mm2/s
* **Max. Allowable Pressure or Design Pressure:** 24 bar (PRV 10 Series) , 18 bar (PRV 11 Series)
* **Minimum Operating Differantial Pressure:** 0,35 Bar (for 1/8" up to 1") and 0,5 bar (for 1-1/4" up to 2"), (internal exhaust system (for PRV 11 Series))
* Valve has sealing o-rings
* Sutiable AC and DC voltage, high voltage tolerance
* Coil interchangeable without dismantling the valve (don't matter AC or DC)
* High flow rate, high reliability, high mechanical strength
* Various flow rate options, wide range of orifice options
* Mounting position, optional any position but preferably solenoid coil vertical on top
* The fluid passing through the valve must be filtered
* According 97/23/EC Pressure Equipment Directive (PED), 2006/95/EEC Low Voltage
* Flow rate (Q) can be usually calculated as a function of pressure, density and flow coefficient

Low Power Loss	Min.Ope. Differential Pressure 0,35/0,5 Bar	Coil Rotatable 360°	High Reliability
Full Orifice	Patented Enclosing Tube Design	High Performance	Long Life

Model No	Position	Connection and Port Size	Orifice Size	Flow Factor / Coefficient Kv		Operating Pressure Differantial				Fluid Temperature		Seal	Approximate Weight
						Min. (For AC)	Min. (For DC)	Max. (For AC)	Max. (For DC)	Min.	Max.		
PRV		G	mm	L/m	m3/h	Bar	Bar	Bar	Bar	°C	°C		Kg
PRV 10.02	N.C.	3/8"	12	40	2.40	0,35	0,35	16	16	-10	+80	NBR	0.62
PRV 10.03	N.C.	1/2"	15	70	4.20	0,35	0,35	16	16	-10	+80	NBR	0.58
PRV 10.04	N.C.	3/4"	20	130	7.80	0,35	0,35	16	16	-10	+80	NBR	0.74
PRV 10.05	N.C.	1"	25	180	10.80	0,35	0,35	16	16	-10	+80	NBR	1
PRV 10.06	N.C.	1-1/4"	32	380	22.80	0,5	0,5	12	12	-10	+80	NBR	2.95
PRV 10.07	N.C.	1-1/2"	40	480	28.80	0,5	0,5	12	12	-10	+80	NBR	2.85
PRV 10.08	N.C.	2"	50	600	36	0,5	0,5	12	12	-10	+80	NBR	3.3
PRV 11.02	N.O.	3/8"	12	40	2.40	0,35	0,35	12	12	-10	+80	NBR	0.65
PRV 11.03	N.O.	1/2"	15	70	4.20	0,35	0,35	12	12	-10	+80	NBR	0.61
PRV 11.04	N.O.	3/4"	20	130	7.80	0,35	0,35	12	12	-10	+80	NBR	0.75
PRV 11.05	N.O.	1"	25	180	10.80	0,35	0,35	12	12	-10	+80	NBR	1.03
PRV 11.06	N.O.	1-1/4"	32	380	22.80	0,5	0,5	10	10	-10	+80	NBR	2.98
PRV 11.07	N.O.	1-1/2"	40	480	28.80	0,5	0,5	10	10	-10	+80	NBR	2.88
PRV 11.08	N.O.	2"	50	600	36	0,5	0,5	10	10	-10	+80	NBR	3.33

OPTIONS

* Custom options can be performed for customer's special requests.

* On request; NPT (ANSI 1.20.3), R (BSPT / ISO 7-1), W (BSW /Whitworth), M (Metric) etc...

* On request; diaphragm or sealing or o-rings can be FPM (VITON) (-10 °C to 160 °C) , EPDM (-10 °C to 140 °C)

* On request; various body surface coating, nickel plated body, different body materials, internal parts stainless steel (for PRV 81), seat can be stainless steel, filter, other pipe connections, 2 or 4 mounting sub-base holes at the bottom of the body.

* On request; other special supply voltages, frequencies (60 Hz), other power, coil insulation class : F (155 °C), coil duty latching model

* On request; with electronic timer , Explosion-Proof coil for use in zones 1/21-2/22 (Eex em II T4/T5), coil encapsulation material can be fiber glass reinforced (V0 or V1)

* On request; connector with LED or without connector, connector with visual indication and peak voltage suppression, connector with cable length of 2m, Spade plug (Cable Ø8-10mm), connector non-flammable

* On request; other versions

ELECTRICAL CHARACTERISTICS

* **Protection Range:** IP 65 (EN 60529) (with connector)

* **Plug Connection:** DIN 46340-3 poles connectors (DIN 43650)

* **Connector Specification:** ISO 4400 / EN 175301-803 Form A, Spade plug (Cable Ø 6-8 mm)

* **Electrical Safety:** IEC 335, EN 60335-1, EN 60204-1

* **Coil Insulation Class:** H (180 °C)

* **Coil Impregnation:** Polyester Fiber-Resin Glass

* **Coil Encapsulation Material:** Fiber Glass Reinforced (V2)

* **Supply Voltages:** For AC (~) : 12V , 24V , 48V , 110V , 230V
For DC (=) : 12V , 24V , 48V , 110V , 230V

* **Voltage Tolerances:** For AC (~) or DC (=) %-10 ; %+10

* **Frequency:** 50 Hz

* **Coil Duty Cycle:** %100 ED, Continously Rated

* Design according to DIN VDE 0580

POWER CONSUMPTION

Power Consumption							
Alternating Current (AC)				Direct Current (DC)			
Model No	Voltage	Inrush (VA)	Holding (VA)	Model No	Voltage	Cold (W)	Hot (W)
PRB-1000-12 VAC	12V	30	18	PRB-1000-12 VDC	12V	16	12
PRB-1000-24 VAC	24V	30	18	PRB-1000-24 VDC	24V	16	12
PRB-1000-48 VAC	48V	30	18	PRB-1000-48 VDC	48V	16	12
PRB-1000-110 VAC	110V	30	18	PRB-1000-110 VDC	110V	16	12
PRB-1000-220 VAC	220V	30	18	PRB-1000-220 VDC	220V	16	12

MATERIALS

* **Body:** Brass

* **Plunger Seal:** NBR

* **Enclosing Tube:** Stainless Steel (AISI 430FR and AISI304) for PRV 10 Series , Stainless Steel (AISI430 FR and AISI304) and Brass for PRV 11 Series

* **Plunger:** Stainless Steel (AISI 430FR)

* **Springs:** Stainless Steel (AISI 302)

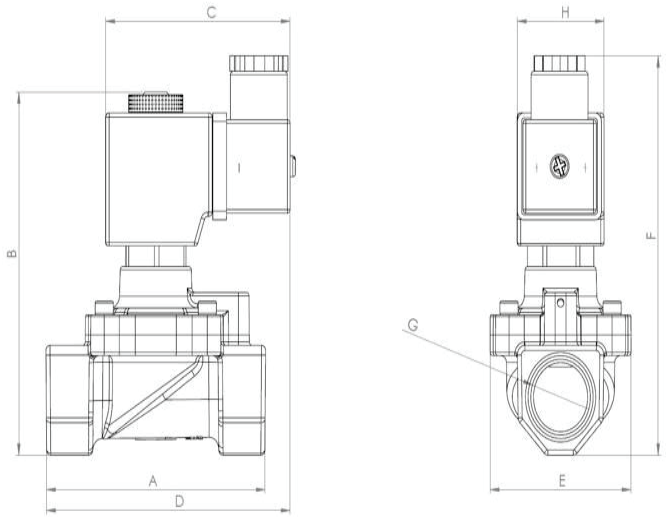
* **Shading Ring:** Copper

* **Seat:** Brass

* **O-rings:** NBR

* **Internal Metal Parts:** Stainless Steel and Brass

DIMENSIONS (mm)



Size	A	B	C	D	E	F
3/8"	80	95	68	90	52	110
1/2"	80	95	68	90	52	110
3/4"	80	105	68	90	52	115
1"	80	112	68	90	52	120
1-1/4"	112	126	68	105	110	158
1-1/2"	135	137	68	115	110	158
2"	145	150	68	117	110	161,5