

PNEUMATRON

www.pneumatron.co.za

sales01@pneumatron.co.za

PVP2 Proportional Valve Series

ELECTRIC MOTOR - 2/2 Way PROPORTIONAL STAINLESS BALL VALVE

PLEASE NOTE

There are Electronic Boards inside these valve actuators and therefore they cannot be mounted on vibrating surfaces or pipes. Mount them on a fixed surface and connect to the generator with rubber hoses.

SPECIFICATIONS:

Media: Compatible media with Stainless Steel, PTFE & EPDM.

Ambient temperature: Minus 15 to 50 Deg C

Media temperature: 2 to 95 Degrees C

Voltages: DC15-24V

Control Signal: 4-20mA STANDARD (0-10V Optional)

Open/Close Time: +/- 7 Seconds

Actuator Protection: IP65



Port & Orifice Size	Orifice (mm)	Kv Flow m3/Hour	Pressure Range	Wiring Diagram	Body
1/4" BSP (8 mm)	8	1.2	0 to 10 Bar	See below diagram	PVP208-(420 or 010)-420
3/8" BSP (10 mm)	10	1.7	0 to 10 Bar		PVP210-(420 or 010)-420
1/2" BSP (15 mm)	15	3.8	0 to 10 Bar		PVP215-(420 or 010)-420
3/4" BSP (20mm)	20	6.7	0 to 10 Bar		PVP220-(420 or 010)-420
1" BSP (25 mm)	25	9.4	0 to 10 Bar		PVP225-(420 or 010)-420

PART NUMBERS: PVP2XX-YYY-ZZZ

DESIGNATION: XX is one of following - 08(1/4"), 10(3/8"), 15(1/2"), 20(3/4") or 1"(25mm)

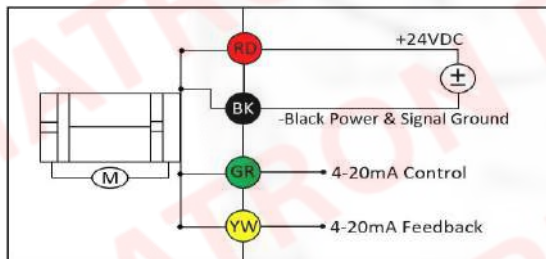
CONTROL SIGNAL INPUT: YYY is one of Following (PLEASE CHOOSE ONE)- 420(4-20mA) or 010(0-10VDC)

POSITION FEEDBACK SIGNAL OUTPUT: Always 4-20mA (No other options)

Wiring diagram: For YYY= 010 the Green(GR) Wire becomes the Control Voltage input (Instead of 4-20mA)

Wiring diagram: Valve WITHOUT feedback only use RD, BK and GR (Others are Not connected)

Wiring for 4-20mA WITH Position Feedback - (Eq. PVP220-420-420)



POWER INPUT:

RD (Red wire) connect to +DC15-24V Positive
BK (Black Wire) connect -DC15-24V Negative(0V)

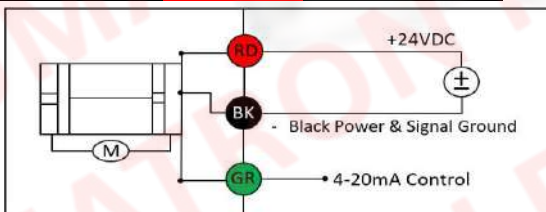
CONTROL SIGNAL INPUT:

GR (Green Wire) Proportional Control Signal
+4 to 20mA(-420 type) (4mA is Closed and 20mA Open)
BK (Black Wire- ALSO Acts as 0V for control)

POSITION FEEDBACK SIGNAL OUTPUT:

YW (Yellow) +4 to 20mA(-420 Type) Feedback signal
BK (Black Wire- ALSO Acts as 0V for feedback)

Wiring for 4-20mA NO Feedback - (Eq. PVP220-420)



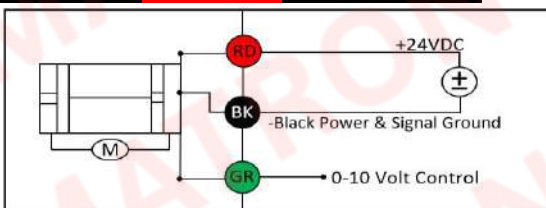
POWER INPUT:

RD (Red wire) connect to +DC15-24V Positive
BK (Black Wire) connect -DC15-24V Negative(0V)

CONTROL SIGNAL INPUT:

GR (Green Wire) Proportional Control Signal
+4 to 20mA(-420 type) (4mA is Closed and 20mA Open)
BK (Black Wire- ALSO Acts as 0V for control)

Wiring for 0-10V NO Feedback - (Eq. PVP215-010)



POWER INPUT:

RD (Red wire) connect to +DC15-24V Positive
BK (Black Wire) connect -DC15-24V Negative(0V)

CONTROL SIGNAL INPUT:

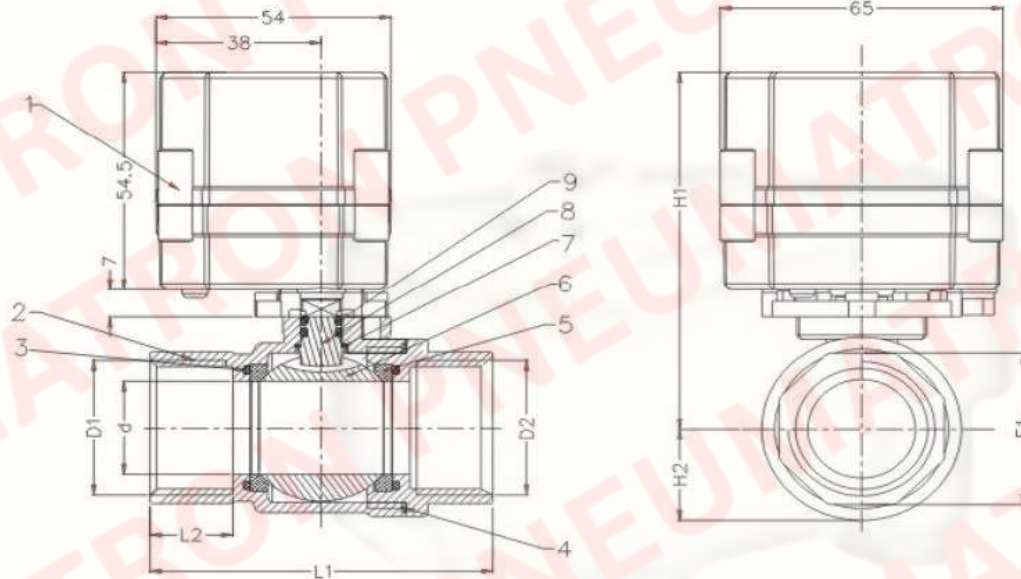
GR (Green Wire) Proportional Control Signal
0 to 10V (0V is Closed and 10V Open)
BK (Black Wire- ALSO Acts as 0V for control)

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Dimensions



No.	Name	Material	Qty
1	Actuator	PPO	1
2	Body cover	SS304	1
3	O-ring	FKM	2
4	Sealing	PTFE	2
5	Ball	SS304	1
6	Stem	SS304	2
7	O-ring	FKM	2

BODY DIMENSION CODE(Size in mm)

Valve body	D1/D2	L1	L2	E1	H1	H2
PVP208	1/4" (8mm)	51	12	21	82	14
PVP210	3/8" (10mm)	51	12	21	82	14
PVP215	1/2" (15mm)	63	14	25	82	17
PVP220	3/4" (20mm)	72	17	31	87	20
PVP225	1" (25mm)	81	18	38	95	24