

PNEUMATRON

www.pneumatron.co.za

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PPRVS-X2XX Proportional 2-Way & 3-Way Series ELECTRIC MOTOR - 2/2 & 3/2 Way BALL VALVE

VALVE BODY:

Medium: Non Corrosive Liquids, Air & Gasses (below 20 cSt)

Temperature of medium: 2° - 90°C

Maximum Differential Pressure: 6 Bar

Pipe connector: BSP Internal thread

Ambient temp. range: -5 to +60°C; 0-90% RH

Port Size: 1/2" to 2"

Valve type: 2-way or 3-way

Flow characteristic: Proportional to control signal



MATERIALS

Valve body: Forged Brass

Stem Seal: EPDM

Ball: Brass + PTFE

Valve Connector: PC

Valve Spindle: Aluminium Alloy



ELECTRICAL SPECS

Supply Voltage: 24VAC/DC

Control: DN15/20/25 has 0-10V control only (**V-Port for better linear control**)

Control: DN32/40/50 has 0-10VDC or 4-20mA (**V-Port for better linear control**)

Rotation direction: Clockwise/ Counter Clockwise (Switch Select)

Automatic overload protection system

Protect class: IP54

Operation time: 50 to 120 seconds (depending on valve size)

WIRING CONNECTIONS

Black and brown wires are the power wires.

Port Size	Flow Rate Kv(m3/h)	Body
2- WAY VALVE		
1/2" BSP (DN15)	6.3	PPRVS-2215-010 (0-10V only)
3/4" BSP (DN20)	6.3	PPRVS-2220-010 (0-10V only)
1" BSP (DN25)	10	PPRVS-2225-010 (0-10V only)
1 1/4" BSP (DN32)	16	PPRVS-2232-420-010 (4-20mA or 0-10V)
1 1/2" BSP (DN40)	25	PPRVS-2240-420-010 (4-20mA or 0-10V)
2"BSP (DN50)	43	PPRVS-2250-420-010 (4-20mA or 0-10V)
3- WAY VALVE		
1/2" BSP (DN15)	6.3	PPRVS-3215-010 (0-10V only)
3/4" BSP (DN20)	6.3	PPRVS-3220-010 (0-10V only)
1" BSP (DN25)	10	PPRVS-3225-010 (0-10V only)
1 1/2" BSP (DN40)	25	PPRVS-3240-420-010 (4-20mA or 0-10V)
2"BSP (DN50)	43	PPRVS-3250-420-010 (4-20mA or 0-10V)

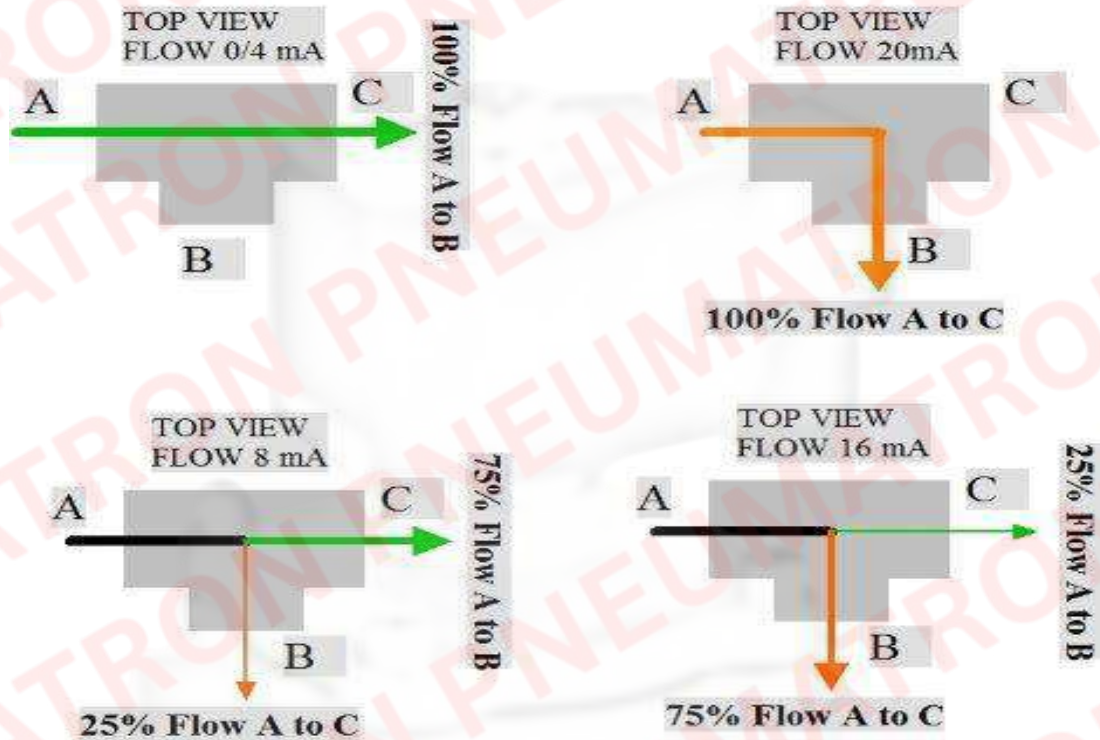
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Flow chart of 3/2

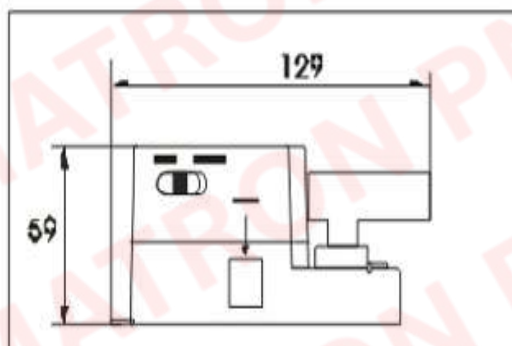
3-PORT PROPORTIONAL VALVE



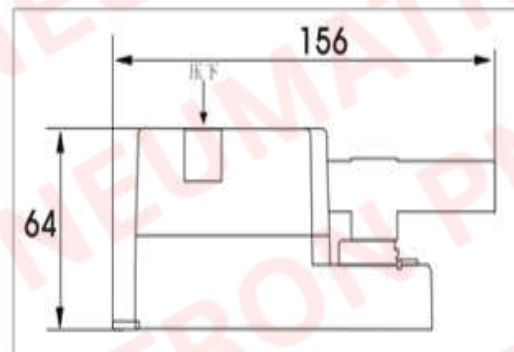
Dimensions and Wiring diagrams

Actuator dimensions

4Nm Actuator (1/2", 3/4" & 1")



6Nm/10Nm (1 1/4", 1 1/2" & 2")

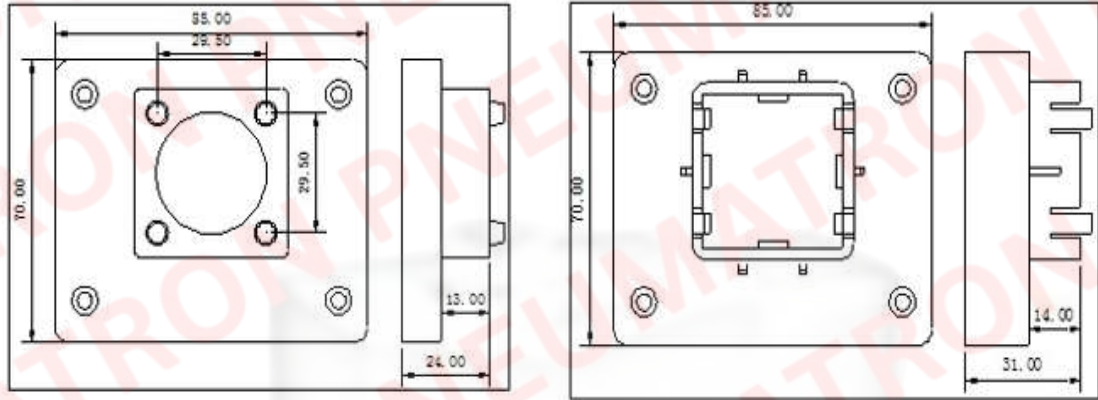


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Connector dimensions



Wiring diagram

