

hydromat

Innovative water passage with highest flow coefficient

**REVOLUTION
IN WATER
FLOW
REGULATION
& CONTROL**



hydromat Control Valves

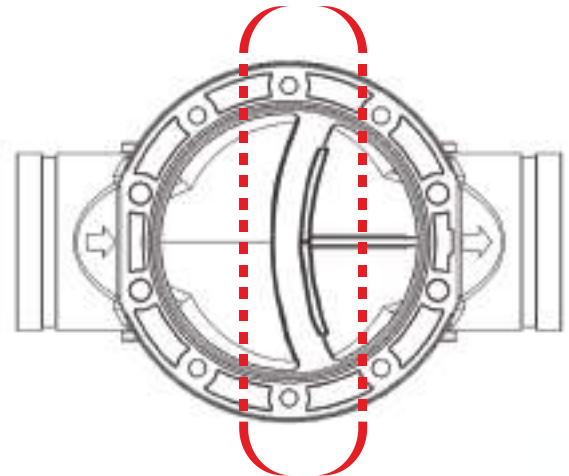
1½", 2", 3", 4" & 6"

Control Valves 1½", 2", 3", 4" & 6"

Automat offers Hydromat series control valves combined with innovative "Curved Bridge*" design and performance which caters to a diversified range of irrigation applications. Equipped with a flexible fabric reinforced diaphragm and made with engineering grade plastics, the valve is operated by the pressure in the pipeline.



***Patent Pending**



Hydromat valves are perfect for use in:

- Agricultural and landscape irrigation.
- Green house and Turf irrigation.
- Waterworks treatment plants and distribution systems.
- Industrial application (mining, wastewater, marine).

Curved Bridge* Offers

- Lower opening pressure.
- High flow capacity.
- Minimum pressure loss.
- No vibration and distortion.
- Rapid response.

Features

- Innovative water passage offers one of the highest flow coefficient amongst the similar products available.
- Polymeric valve with great durability and corrosion resistance.
- Reinforced diaphragm offers smooth operation, tight shut-off and no distortion.
- Simple and robust design involving 4 main parts.

Connections types

hydromat valves are available with a variety of end connections for simple and easy installations.



1½", 2" & 3" Threaded



3", 4" & 6" Flanged



3" 4" & 6" Grooved



Hydromat Valves Types

Manual Controlled Valve

The valve is controlled manually by a 3 Way Brass Selector that allows the user to select either “Open”, “Close” or “Auto” port. On selecting the “Close” port, the valve remains in closed position. On selecting “Open”, the valve remains in open position. The “Auto” port is used in regulating configurations with a Pilot. The operation of the valve with the 3-Way selector is quick and effortless even under high pressure conditions.



2 Way Electric

Electrically actuated, it is a normally closed valve with an in-built solenoid actuator. The simplicity of the valve makes it suitable for greenhouse and field irrigation applications. They come equipped with AC or DC latch operators and a manual override is enabled through an integral lever.



3 Way Electric

The 3 Way solenoid valve is actuated by an electric current or an electric pulse (latch) that opens or closes the main valve. The valve is supplied as “Normally Closed”.



Quick Pressure Relief Valve (2 Way Pilot Operated)

The Quick Pressure Relief Valve is a hydraulically operated, diaphragm actuated control valve that relieves excessive system pressure that rises above the maximum pre-set. Equipped with a 2 way diaphragm actuated spring loaded pilot, the reaction of the valve is immediate, accurate and offers high repeatability by fully opening. The Quick Pressure Relief Valve provides smooth drip tight closing once pressure reduces below the pre-set.



Pressure Reducing Valve (3 Way Pilot Operated)

The valve maintains a pre-set downstream pressure regardless of upstream pressure or flow fluctuations, controlled by a 3-way pilot valve. The spring loaded membrane of the pilot is sensitive to downstream pressure and maintains desired downstream pressure by gradually opening and closing the hydraulic valve. When no flow exists in the system, the valve closes itself automatically.



Pressure Sustaining Valve (3 Way Pilot Operated)

Pressure sustaining valve installed in-line, sustains minimum back pressure controlled by a 3-way pilot. The spring loaded membrane of the pilot is sensitive to upstream pressure and opens the valve when the inlet pressure exceeds pilot set pressure. The valve will be in closed position, if upstream pressure is below the desired set pressure.



Electric Pressure Reducing Valve (3 Way Pilot Operated)

The valve maintains a pre-set downstream pressure regardless of upstream pressure or flow fluctuations, controlled by a 3-way pilot valve. The valve opens to modulate and shuts off in response to an electrical signal.





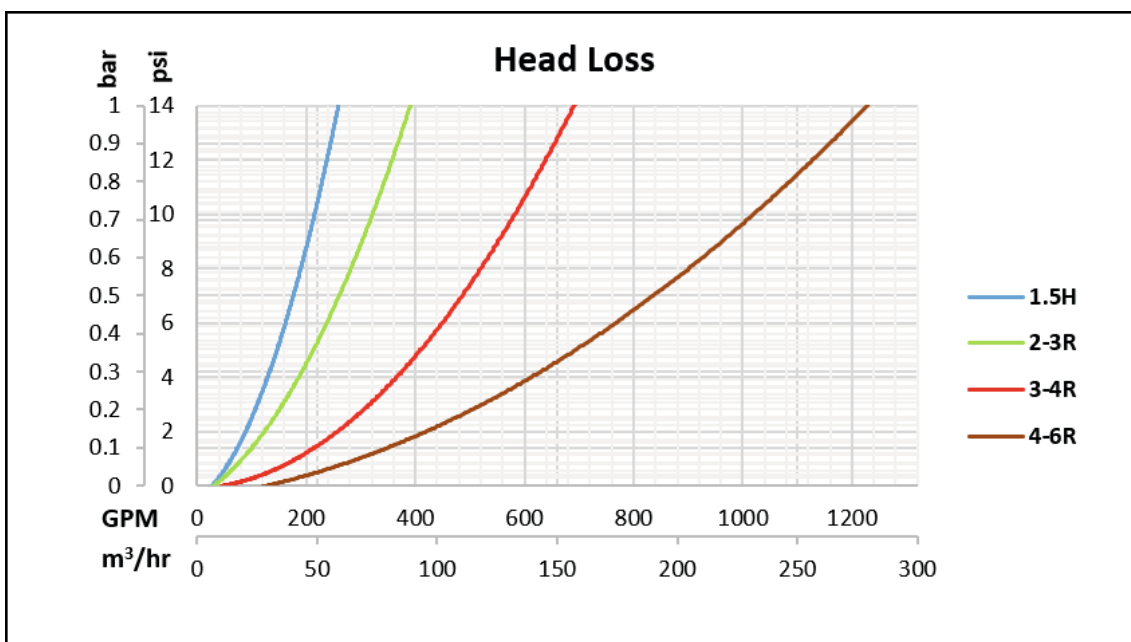
Technical Specifications

Valve Size	mm	40 mm H	50 mm	80 mm R	80 mm	100 mm R	100 mm	150 mm R	
	Inch	1.5" H	2"	3"R	3"	4"R	4"	6"R	
		1.5 x 2 x 1.5	2 x 2 x 2	3 x 2 x 3	3 x 3 x 3	4 x 3 x 4	4 x 4 x 4	6 x 4 x 6	
Maximum Flow Rate	m ³ /hr	40	60	90	140	140	180	180	
Minimum Flow Rate	m ³ /hr	>1							
Pressure Range	bar	0.5 - 10					0.7 - 10		
	psi	8 - 145					10 - 145		
Flow Rate Factor	Kv (metric)	60	86	90	175		280		

R = Reduced port

Maximum Operating Temperature : 60 °C (140 °F)

Head Loss Chart



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