

# HR VALVES

## PRESSURE REDUCING ELECTROVALVE

A CAREFUL VALVE DESIGN, THE NATURE OF THE COMPONENTS USED IN THEIR MANUFACTURE PROCESS, ADDED TO OUR STRICT QUALITY CONTROL TECHNIQUES, ALLOWS US TO OFFER A WIDE RANGE OF RELIABLE AND HIGH QUALITY PRODUCTS

### Connection type and diameter

- 1 ½" to 3" thread
- 3" to 12" flange

### MAIN FEATURES

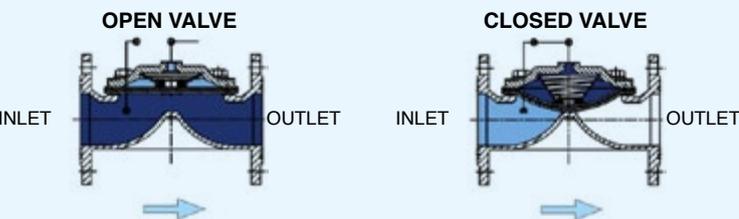
- High resistance to operation and exposure conditions. Anti-corrosion epoxy-polyester coating.
- Chemical and mechanical resistant diaphragm with low opening pressure.
- Wide regulation range.
- Accurate and stable regulation.
- Low head loss.
- Easy maintenance.
- Bidirectional valve.

For filtration equipment applications, please consult technical datasheet "Special Sustaining valve kit for filtration equipment".

### HOW DO THEY WORK

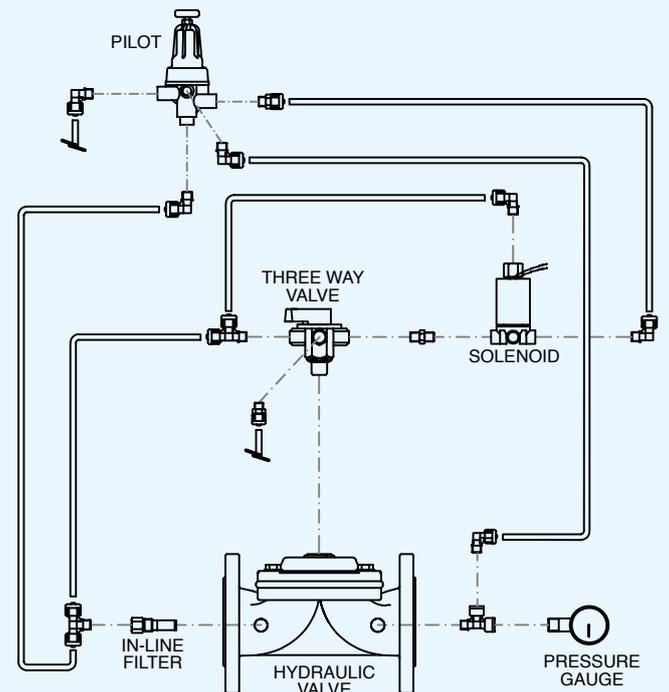
Two-way metallic hydraulic valve, which incorporates a three position selector valve and a three-way pilot, made of technical plastic material, and a NO three-way solenoid valve.

The valve remains closed as long as the solenoid is not energized. When electrically activating the solenoid, it regulates continuously the position of the diaphragm through the water inlet/outlet of the chamber to ensure that the pressure value downstream of the valve does not reach higher values than those regulated in the pilot.



### APPLICATIONS

- Automation of irrigation systems, industrial processes and hydraulic applications in municipal facilities.
- The valve protects against overpressure in pipes and other installation elements installed downstream of the reducing valve.



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## HYDRAULIC VALVE TECHNICAL SPECIFICATIONS

Connections	DN (mm)	DN (inch)	L (mm)	H (mm)	Operating flow range (m³/h)	Max. working pressure (bar)	Min. working pressure (kg/cm²)	Connection standard*	N° of holes	Weight (kg)
Thread	40	1 ½"	170	65	2 – 33	6	0.5 – 0.8	BSP	-	2.3
						16	1.2 – 1.5			
	50	2"	186	75	2 – 42	6	0.5 – 0.8	BSP	-	3.1
						16	1.2 – 1.5			
	65	2 ½"	205	90	2.5 – 45	6	0.5 – 0.8	BSP	-	4
						16	1.2 – 1.5			
80C	3" (3-2-3)	210	113	5 – 48	6	0.5 – 0.8	BSP	-	5.3	
					16	1.2 – 1.5				
80A	3"	240	105	5 – 110	6	0.5 – 0.8	BSP	-	7.2	
					16	1.2 – 1.5				
Flange	80A	3"	250	203	5 – 110	6	0.5 – 0.8	PN10	8	11.2
						16	1.2 – 1.5	PN16		
	80D	3" (3-4-3)	280	203	5 – 130	6	0.5 – 0.8	PN10	8	13.8
						16	1.2 – 1.5	PN16		
	100	4"	305	223	10 – 150	6	0.5 – 0.8	PN10	8	15.5
						16	1.2 – 1.5	PN16		
	125C	5" (5-4-5)	330	250	10 – 160	6	0.5 – 0.8	PN10	8	21
						16	1.2 – 1.5	PN16		
	150	6"	390	282	15 – 330	6	0.8 – 1	PN10	8	41
16						1.5 – 1.8	PN16			
200	8"	475	343	20 – 590	6	0.8 – 1	PN10	8	68	
					16	1.5 – 1.8	PN16			12
250C	10" (10-8-10)	505	405	20 – 680	6	0.8 – 1	PN10	8	88	
					16	1.5 – 1.8	PN16			12
300	12"	584	460	25 – 1400	6	1 – 1.2	PN16	12	120	
					16	1.5 – 1.8				

\*Flange connection Standard DIN 2576 (PN10) compatible with DIN 2502 (PN16) for up to 6" models included.

## REDUCING ELECTROVALVE COMPONENTS CHARACTERISTICS

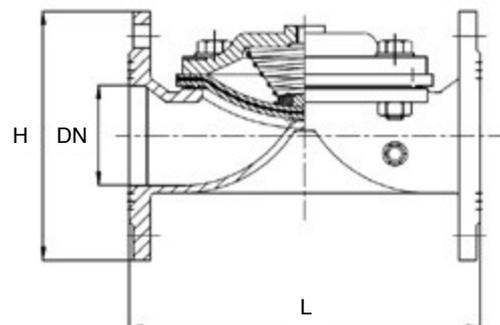
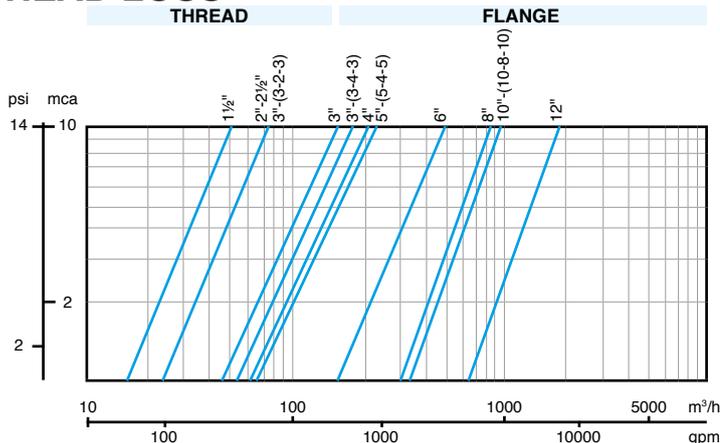
Pilot**	Regulation pressure range	(PN6) 0.9 – 5.2 bar (PN10) 1.5 – 7.5 bar
	Configuration	Normally open (NO)
Solenoid	Voltage	12 V DC LATCH 24 V AC
	Three-way manual valve	M 1/4" – 3 x F 1/8"

\*\*The valve incorporates a PN6 pilot for maximum working pressure 6 bar models and a PN10 pilot for maximum working pressure 16 bar models.

## MATERIALS OF CONSTRUCTION

Body and lid	Thread models	Cast iron (GG25)	Epoxy-polyester coating
	Flange models	Ductile iron (GGG50)	
Diaphragm (membrane)	Rubber reinforced with nylon		
Spring	Stainless steel 302		
Support	Nylon		
Pilot	Fiberglass reinforced technical plastic		
Three-way manual valve	Brass		

## HEAD LOSS



The company reserves the right to change the characteristics of these products without prior notice.