



VALVE HR 40 :



The FLUM VALVES cast iron hydraulic valve is a rigid-closing hydraulic valve with a guided piston with a single chamber, with a basic opening and closing operation due to the pressure exerted by the water in the pipeline.

Utilities:

- Agricultural irrigation
- Heads
- Industrial processes

TECHNICAL CHARACTERISTICS:



- **GGG** cast iron body
- **A2-70** stainless steel screws
- Baked epoxy Paint suitable for drinking water
- Flanges in accordance with ISO 7005-2 standard.

NOTABLE FEATURES:



- Precise and linear regulation.
- Greater stability.
- Low minimum opening pressure, 0.3 bar.
- Quick closing and opening, ideal for assemblies . pressure relief.
- Simple maintenance.
- Low pressure losses thanks to the design of the . body and membrane.

MATERIALS

Component	Material
BODY, COVER and DISC	GGG ductile iron
PAINT	150 micron thick epoxy-polyester
SPRING, AXLE AND GUIDE	Stainless steel
DIAPHRAGM	Natural rubber reinforced with nylon fabric
SCREWS	Stainless steel A2-70
SEAT	Brass

HYDRAULIC SPECIFICATIONS

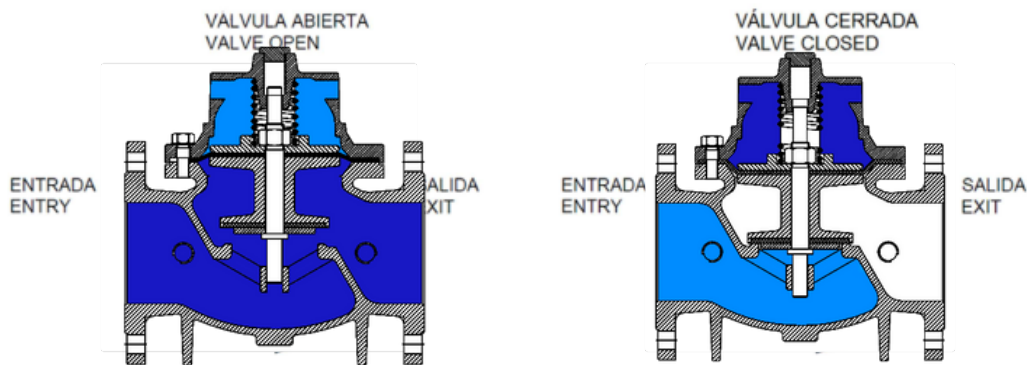
We carry out opening and closing tests on each valve individually, complying with the UNE EN-12266-1 of 2013 regulations, which regulates valve tests, test procedures and acceptance criteria for pressure tests.

FUNCTIONING

The valve opens or closes hydraulically depending on the pressure applied to the top of it:

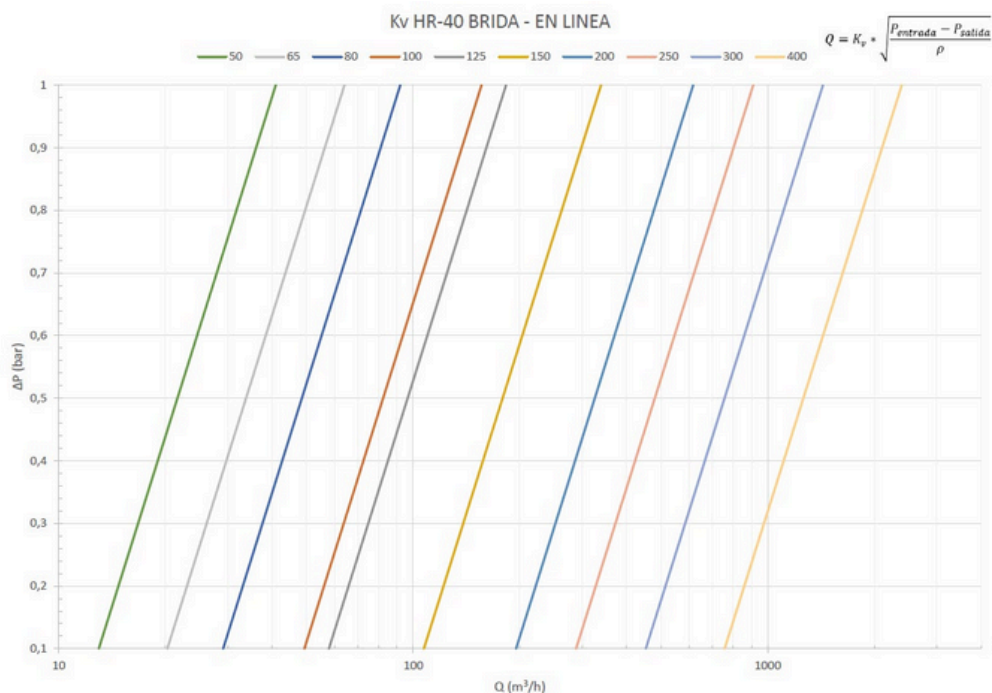
- Closing: When the valve is closed, the piston blocks the flow of fluid
- Opening: By moving the piston rearward, an opening is created that allows fluid to pass through.
- Flow Control: The position of the piston is adjusted to control the amount of fluid passing through the valve.
- Gradual Closing: The piston moves forward to reduce the opening and stop the flow of fluid.

Using the hydraulic valve we can regulate the pressure or flow in a pipe, varying the volume of water in the upper part of the diaphragm.



LOAD LOSS

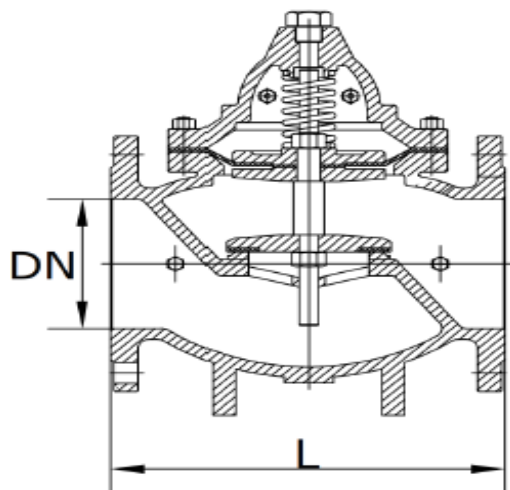
Pressure loss test carried out according to UNE EN-1267 regulations.



***To size a valve correctly, consider $\Delta P = 0.2$**

PHYSICAL SPECIFICATIONS:

- All our flange valves comply with the European standard UNE EN-1092 regarding the measurements of the connection flanges.
- Also available with flange according to ANSI regulations upon request.



CONNECTIONS CONNECTION	Material	D.N. (mm)	Inch (inch)	h (mm)	L (mm)	Nominal pressure Nominal pressure (Bar)	Pressure Work min Minimum working pressure (Bar)	kv	Number of holes No. of holes	Weight Weight (kg)
FLANGE FLANGED	GGG	50	2"	230	215	16	0.25	41	4	9.20
	GGG	65	2 ½"	250	235	16	0.25	50	4	13.00
	GGG	80	3"	260	255	16	0.25	65	8	14.00
	GGG	100	4"	280	285	16	0.25	124	8	19.50
	GGG	125	5"	320	325	16	0.25	156	8	24.00
	GGG	150	6"	350	365	16	0.25	205	8	35.00
	GGG	200	8"	440	425	16	0.25	440	12	47.00
	GGG	250	10"	510	505	16	0.25	830	12	100.00
	GGG	300	12"	600	585	16	0.25	1210	12	123.00
	GGG	400	16"	770	650	16	0.25	1730	16	245.00
GGG	500	20"	990	720	16	0.25	2960	20	360.00	

*Approximate measurements, tolerances in accordance with ISO 7005-2 and UNE-EN 1092-2.

WARNINGS:

- Do not install the product without first reading and understanding the safety instructions.
- Pressure equipment, do not handle under load.
- This type of equipment must be handled by qualified personnel. The assembly, handling or maintenance of this equipment must be carried out by personnel with appropriate experience.
- Hidráulica Romyspan is not responsible for any failure caused by the manipulation of the equipment by personnel other than the company.
- Hidráulica Romyspan is not responsible for possible damages or injuries due to misuse of the equipment.

SECURITY INSTRUCTIONS

- To install the valve in the correct direction, the date on the valve body must coincide with the direction of water flow.
- The valves must not be installed underground. If you have to install it underground, mount it inside a closed box.
- For greater durability of the equipment, it is recommended to install a filter to avoid stones and impurities in the control system.

WHAT TO DO IF ?

Material	POSSIBLE REASON	PROCEDURE
THE VALVE DOES NOT CLOSE	WRONG CONNECTIONS OR VALVES	CHECK THE COMPLETE CONNECTION AND THE POSITION OF THE INSULATING VALVES. IF NECESSARY, MODIFY ASSEMBLY AND OPEN INSULATING VALVES TO ALLOW WATER FLOW.
	CLOSED INSULATORS	
	CLOGGED FILTER	REMOVE THE MICROTUBE LEAVING THE FILTER TO CHECK IF THERE IS WATER FLOW. CLEAN FILTER MESH OR REPLACE IF NECESSARY
	BLOCKED CIRCUIT	EXAMINE CONNECTING PIPES FROM THE INLET AND CHECK FOR FLOW. CLEAN OR CHANGE ACCESSORY IF NECESSARY.
	BROKEN MEMBRANE OR SPRING	REMOVE COVER AND EXAMINE MEMBRANE AND SPRING. REPLACE DAMAGED ELEMENT IF NECESSARY.
THE VALVE DOES NOT OPEN	CALCIFIED SOLENOID	REMOVE AND CHECK SOLENOID CORE. CLEAN OR REPLACE IT IF NECESSARY.
	PILOT OR RELAY DRAIN VALVE MAIN CHAMBER	INSPECT PILOT OR RELAY FOR WORN, DEFECTIVE PARTS OR FAILURE IN ASSEMBLY. CHANGE DEFECTIVE COMPONENTS OR COMPLETE PILOT.
	WRONG CONNECTION OR CLOSED INSULATING VALVES	CHECK THE COMPLETE CONNECTION AND THE POSITION OF THE INSULATING VALVES. IF NECESSARY, MODIFY ASSEMBLY AND OPEN INSULATING VALVES TO ALLOW WATER FLOW.
	INSUFFICIENT PRESSURE UPSTREAM OF THE VALVE	EXAMINE INLET PRESSURE, IF IT IS INSUFFICIENT, CHANGE MEMBRANE AND SPRING FOR A MODEL FOR LOWER WORKING PRESSURES.
	BROKEN MEMBRANE OR SPRING	REMOVE COVER AND EXAMINE MEMBRANE AND SPRING. REPLACE DAMAGED ELEMENT IF NECESSARY.
THE VALVE DOES NOT REGULATE PROPERLY	CALCIFIED SOLENOID	REMOVE AND CHECK SOLENOID CORE. CLEAN OR REPLACE IT IF NECESSARY.
	PILOT OR RELAY DOES NOT DRAIN VALVE MAIN CHAMBER	INSPECT PILOT OR RELAY FOR WORN PARTS, DEFECTIVE OR FAILURE IN ASSEMBLY. CHANGE DEFECTIVE COMPONENTS OR COMPLETE PILOT.
	CLOGGED FILTER	REMOVE THE MICROTUBE LEAVING THE FILTER TO CHECK IF THERE IS WATER FLOW. CLEAN FILTER MESH OR REPLACE IF NECESSARY.
	MISADJUSTED PILOT	TIGHTEN AND LOOSE THE PILOT ADJUSTMENT SCREW AND OBSERVE IF THERE IS A REACTION. IN CASE OF CORRECT REACTION, RE-ADJUST THE PILOT TO THE DESIRED PRESSURE EXAMINE PILOT WORKING RANGES. IF IT IS OUT OF THE RANGE,
	WORKING PRESSURE OUTSIDE THE PILOT WORKING RANGE	CHANGE THE INTERNAL SPRING OF THE PILOT OR COMPLETE PILOT.
THE VALVE DOES NOT CLOSE COMPLETELY	FAULTS IN REGULATOR PILOT	INSPECT PILOT OR RELAY FOR WORN, DEFECTIVE PARTS OR FAILURE IN ASSEMBLY. CHANGE DEFECTIVE COMPONENTS OR COMPLETE PILOT.
	MEMBRANE LOSES WATER	EXAMINE THE MEMBRANE AND IF IT IS DAMAGED, REPLACE IT WITH A NEW ONE.
	THE CONTACT SURFACE OF THE MEMBRANE DOES NOT MAKE A CORRECT CLOSURE	POSSIBLE DIRT LOCATED BETWEEN THE MEMBRANE AND ITS SUPPORT ON THE VALVE BODY. MANUALLY CLOSE THE VALVE AND IF THE PROBLEM CONTINUES, OPEN THE VALVE COMPLETELY TO CLEAN THE SUPPORT AREA OF THE MEMBRANE.



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