

KY-valve

Advantages of KY-valves

The **Bermad** 100 series are industrial grade nylon Y valves for high-flow systems. It's diaphragm and guided plug provide a significantly 'look through' passage from end to end resulting in ultra-high flow capacity with minimal pressure loss. The KY-valve is engineered to meet rough service conditions with high thermal stress, vibration, chemical and cavitation resistance. With this design, Bermad is responding to the high standards for new designs and requirements of water systems.

The valve operates with the principle of the own-medium controlled gate valve provides accurate positioning and smooth regulation without causing water hammer. The simple design, durable on industrial level, with few moving parts, ensures easy servicing with long intervals.

The use of high-quality fibreglass-reinforced nylon, resistant to mechanical forces caused by pressure, makes the valve resistant to temperature differences and vibrations and not susceptible to corrosion.

Available connections:

The 2", 2½", 3"R and 3" are designed with external thread and the option of PVC adapters and/or flanges, the 4", 4"L, 6"R and 6" are fitted with flanges.

The KY-valve can be used for the following functions:

- Hydraulic and / or electrical control for open/close
- Pressure-reducing
- Overflow- / high-pressure protection
- Levelcontrol / float controlled valves

Combinations of functions are available.





KY-valve Technical data

Applications:

- Automation
- Pressure control
- Pressure relief valve
- Heat pump installations
- Recirculation systems
- Substrate systems
- Filter flushing valves
- Irrigation systems
- Sprinkler systems
- Eb & flood systems

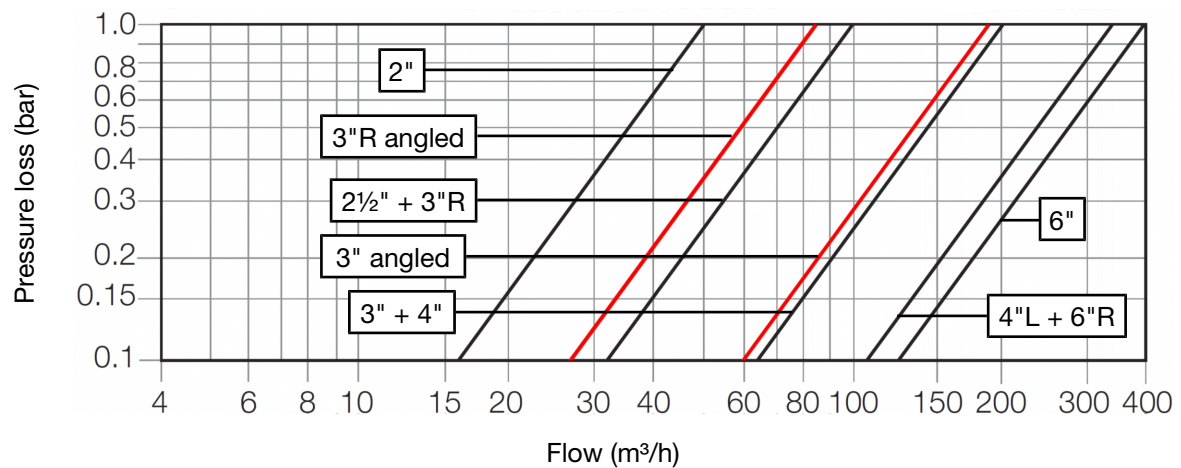
Option:

- Various solenoids
- N.O. version-electrically closing
- Combination of functions
- Pneumatic control



Flow diagram for fully open valves

For 2-way & 3-way valves minimum 0.3 bar pressure loss with 'V' < 2 m/s

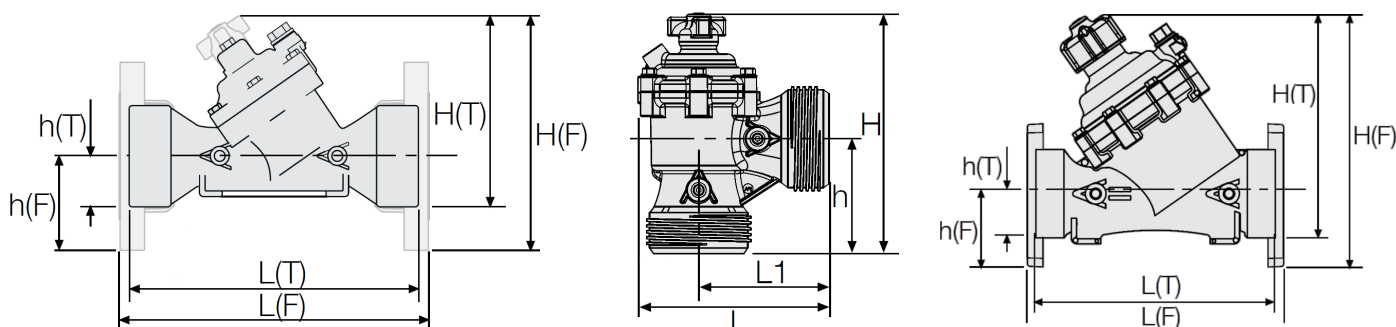


KY-valve Technical data



Dimensions and weights:

Model		2"	2½"	3" R anled	3"R
Type		2U11020Y1	2U11025Y1	2U11030H1	2U11030R1
Connection	inch	2" BSP.F(m)	2½" BSP.F(m)	3" BSP.T(f)	3" BSP.T(f)
L	mm	200	230	187	298
L1	mm	-	-	150	-
H	mm	156	170	235	180
h	mm	40	40	117	50
Width	mm	97	135	135	135
Weight	kg	0,8	1,4	1,6	1,6
KV		50	100	85	100
CCDV	ltr	0,15	0,2	0,2	0,2



Model		3"R	3" angled	3"	3"
Type		2U11030R3	2U10930A1	2U10930Y1	2U10930Y3
Connection	inch	3" fl.	3" BSP.T(f)	3" BSP.T(f)	3" fl.
L	mm	308	235	298	310
L1	mm	-	150	-	-
H	mm	240	290	305 H(T)	280
h	mm	100	145	60	100
Width	mm	100	170	190	195
Weight	kg	2,5	2,8	3,5	4
KV		100	190	200	200
CCDV	ltr	0,2	0,7	0,7	0,7

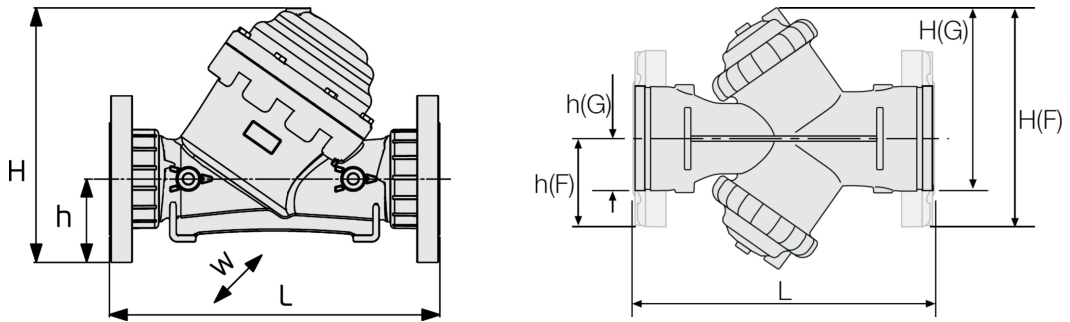


Subject to modifications.
No liability accepted for errors or misprints



KY-valve Technical data

Model		4"	4" L	6" R	6"
Type		2U10940Y3	2U10940L3	2U10960R3	2U10960Y3
Connection	inch	4" fl.	4" fl.	6" fl.	6" fl.
L	mm	350	442	470	480
L1	mm	290	340	377	285
H	mm	112	112	149	145
Width	mm	215	226	300	385
Weight	kg	4,9	10,0	11,0	12,8
KV		200	340	340	400
CCDV	ltr	0,7	1,4	1,4	2x 0,7



KY-valve

Technical data



Specifications:

- Working pressure: 0,5 – 10 bar
- Max. temperature: 60 °C
- Pressure class: ISO PN10 / ANSI 125

Materials:

- Body and cover: fibreglass-reinforced nylon
- Spring: Stainless steel
- Diaphragm: NBR, nylon-reinforced
- Seals: NBR

Models:

- 2", 2 1/2" male thread BSP with flowstem
- 3"R female thread BSP with flowstem
- 3"R with plastic flange & flowstem
- 3" female thread BSP
- 3", 4", 4"L, 6"R and 6" plastic flange

Options:

- 2", 2 1/2" and 3"R without flowstem
- 3", 4" and 6" with flowstem
- 3"R and 3" with Bermad PVC adapter 75mm
- 3"R, 3", 4" and 4"L with Bermad PVC adapter 90/110 and 110/125mm
- 3"R, 3", 4" and 4"L with metal flange

Connection options:



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KY-valve Variations



2-way 24 VAC, Electrically operated valve

The electrically operated valve is fitted with a solenoid. The valve is normally closed (NC). An electric control signal is required to open the valve. (Option: normally open valve)



Hydraulically operated valve

The hydraulically operated valve is controlled by external water pressure. When the pressure is equal to or higher than the system pressure, the valve closes.



Pressure sustaining valve / relief valve

A pressure sustaining valve / relief valve is closed until the pressure reaches the pre-set pressure set on the navaton/pilot.

By this means, overpressure or too-low pressure upstream from the valve is prevented