800 Series valve

800 Series valve
The 800 series piston actuated valves are hydraulically operated globe valves in either the standard oblique (Y) or angle pattern design. Using this piston means that no diaphragm is required and the unit remains extremely reliable, even under high pressure. The design ensures that cavitation is reduced and, pressure loss is up to 30% less than from other control valves. The valve meets the requirements for drinking water distribution on an urban scale and in buildings, wastewater, fire protection systems, industry and water flows in general. The valve comprises two major components: the body seat assembly and the actuator assembly. The actuator assembly is unitized and is removable from the body as an integral unit. It consists of both an upper and a lower control chamber. Due to this design the valve is maintenance friendly and can be done without removing the unit from the installation. We can advise you based on the required flow rate, functions, quality approvals and applications.

The advantages of 800 Series valves:
- Low pressure loss due to semi-straight flow
- Diaphragm free technology
- Adjustable closing speed to counteract water hammer
- High maximum work pressure
- Maintenance-friendly
- Exceptional pressure control stability
- Opens at low inlet pressure

BELGAQUA

DVGW

NSF

WRAS
Water Regulations Advisory Scheme

800 Series valve
Technical data

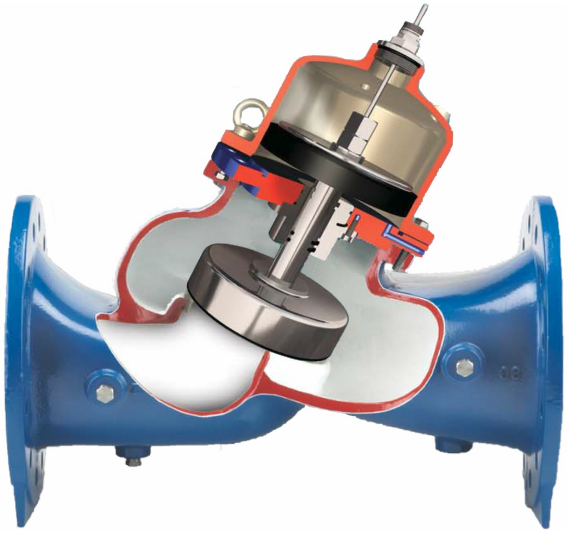
Specifications:
- Max. temperature: 80 ºC
- Connection: flange
- Pressure class: PN16, PN25 and PN40

Materials:
- Body: cast iron with epoxy coating; options: ductile iron, stainless steel
- Cover: stainless steel or bronze
- Actuator: stainless steel or bronze
- Seals: NBR options: EPDM, FPM

Models:
- Sizes straight: 1½" - 20"
- Sizes (angled): 1½" - 18"

Functions:
- Both hydraulic and electrical opening and closing
- Pressure reducing
- Pressure sustaining
- Flow limiting
- Level control for reservoirs
- Check valve
- Pump control valve
- Water hammer arrestor

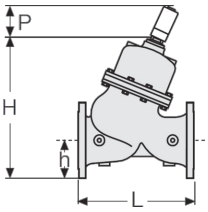
Options:
- Various solenoids
- N.O. version-electrically closing
- Various materials
- Combination of functions
- Various flange standards
- Epoxy coating
- Valve position indicator
- Anti-cavitation cage
- Other options on request



800 Series valve
Technical data

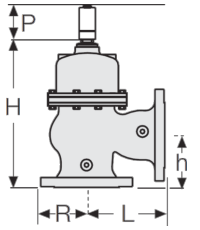
800 series model PN16

800 globe		1½"	2"	2½"	3"	4"	6"	8"	10"	12"	14"
L	mm	205	210	222	250	320	415	500	605	725	733
H	mm	260	265	278	327	409	526	650	763	942	969
h	mm	78	83	95	100	115	143	172	204	242	268
P	mm	-	-	-	-	-	135	135	142	154	154
Width	mm	156	166	190	200	229	286	344	408	484	536
Weight	kg	10,7	13	16	28	48	94	162	272	455	482
CCDV [1]	ltr	0,04	0,04	0,04	0,12	0,3	1,1	2,3	4	8	8
KV [2]	m³/h	42	50	55	115	200	460	815	1250	1850	1990
800 angled		**1½"**	**2"**	**2½"**	**3"**	**4"**	**6"**	**8"**	**10"**	**12"**	**14"**
L	mm	124	124	149	152	190	225	265	320	396	400
H	mm	252	252	271	308	390	476	619	717	911	915
h	mm	85	85	109	102	127	152	203	219	273	279
P	mm	-	-	-	-	-	141	141	156	156	156
Width	mm	156	166	190	200	229	285	344	408	496	528
Weight	kg	10,7	13	16	26	46	90	153	259	433	459
CCDV [1]	ltr	0,04	0,04	0,04	0,12	0,3	1,1	2,3	4	8	8
KV [2]	m³/h	46	55	61	127	220	506	897	1375	2035	2189



800 series model PN40

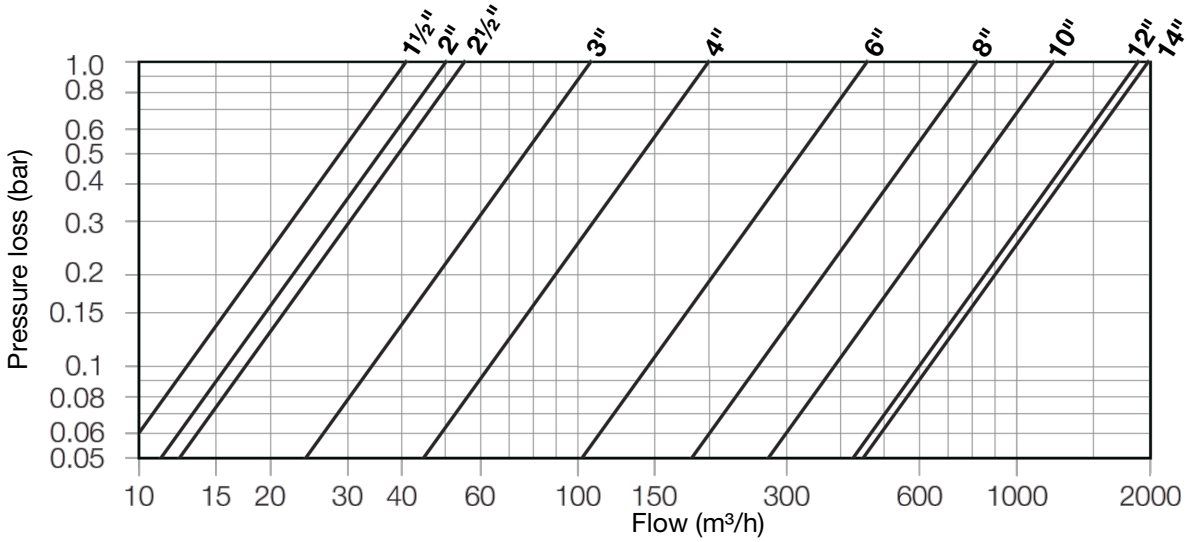
800 globe		1½"	2"	2½"	3"	4"	6"	8"	10"	12"	14"
L	mm	205	210	222	264	335	433	524	637	762	767
H	mm	260	265	278	332	422	542	666	783	961	996
h	mm	78	83	95	105	127	159	191	223	261	295
P	mm	-	-	-	-	-	135	135	142	154	154
Width	mm	156	166	190	210	254	318	382	446	522	590
Weight	kg	11,8	15	18,4	32	56	106	190	307	505	549
CCDV [1]	ltr	0,04	0,04	0,04	0,12	0,3	1,1	2,3	4	8	8
KV [2]	m³/h	42	50	55	115	200	460	815	1250	1850	1990
800 angled		**1½"**	**2"**	**2½"**	**3"**	**4"**	**6"**	**8"**	**10"**	**12"**	**14"**
L	mm	124	124	149	159	200	234	277	336	415	419
H	mm	252	264	271	315	398	491	632	733	930	935
h	mm	85	85	109	109	135	165	216	236	294	299
P	mm	-	-	-	-	-	141	141	156	156	156
Width	mm	150	155	190	200	254	318	381	446	522	586
Weight	kg	11,8	15	18,4	30	54	101	179	292	481	523
CCDV [1]	ltr	0,04	0,04	0,04	0,12	0,3	1,1	2,3	4	8	8
KV [2]	m³/h	46	55	61	127	220	506	897	1375	2035	2189



1: Control Chamber Displacement Volume
2: KV value: valve flow coefficient (flow in m³/h at 1 bar pressure differential)

800 Series valve
Technical data

Flow diagram for completely open globe (straight) 800 valves:



Flow diagram for completely open 800 angled valves: