

THREE-PORT BALL VALVE PN 6 ; - 15...120 °C



XLG 3.. Eng.



- Female threaded connections
- Body in nickel-plated brass and ball in hard-chromed brass
- Seals in Teflon and Viton



1. APPLICATION

The XLG3 valves can be used for diverting or mixing water flow in heating or cooling systems.

They are operated by rotary actuators:

- CRB ..., CVC... and CVH ... with fluid temperature 5...120 °C,
- CVC .../T and CVH .../T with fluid temperature -15...120 °C.

Permitted fluids:

- hot water max. 120 °C,
- chilled water min. -15 °C,
- water with max. 50% glycol.

2. MODELS

Code	DN inches	Kvs m ³ /h	Actuator CRB... Δp max.	Actuator CVC... Δp max.	Actuator CVH 11.. Δp max.	Actuator CVH 05..-21..-63.. Δp max.
			kPa (bar)	kPa (bar)	kPa (bar)	kPa (bar)
XLG 315	1/2"	16.3 1.5	600 (6)	600 (6)	600 (6)	600 (6)
XLG 320	3/4"	29.5 2.7	600 (6)	600 (6)	600 (6)	600 (6)
XLG 325	1"	43 3.9	600 (6)	600 (6)	600 (6)	600 (6)
XLG 332	1"1/4	89 7.9	600 (6)	600 (6)	600 (6)	600 (6)
XLG 341	1"1/2	160 14.8	-	-	600 (6)	600 (6)
XLG 351	2"	265 24.5	-	-	-	600 (6)

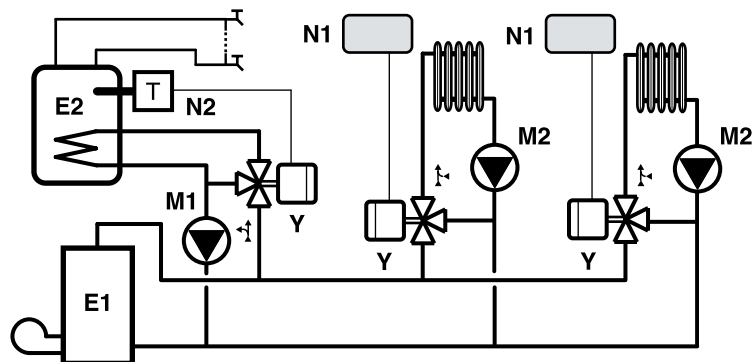
Kvs = flow coefficient : flow in m³/h with valve open and pressure drop of 100 kPa.

Δp max. = maximum differential pressure permitted by actuator.

100 kPa = 10 mWG = 1 bar

3. TYPICAL APPLICATION DIAGRAM

- E1 – Boiler
- E2 – Hot water reservoir
- M1 – Anticondensing boiler and hot water reservoir pump
- M2 – Heating pump
- Y – 3-port motorised valves
- N1 – Ambient controller
- N2 – Hot water reservoir thermostat



4. TECHNICAL DATA

Test pressure
Working pressure
Maximum differential pressure
Leakage rate
Fluid temperature

1000 kPa (10 bar)
600 kPa (6 bar)
600 kPa (6 bar)
nil
-15...120 °C

Materials :

- valve body
- ball
- spindle
- ball seal
- spindle seal

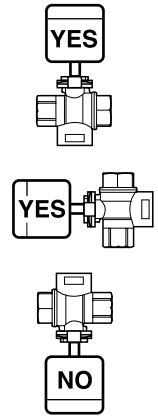
nickel-plated OT58 brass
hard-chromed OT58 brass
OT58 brass
PTFE (teflon)
O-Ring in viton

5. CONSTRUCTION

The valve body is in OT58 nickel-plated brass with threaded female connections. The ball is in OT58 hard-chromed brass, held between two seals in PTFE (teflon) which guarantee the total absence of leakage rate. The ball-PTFE system presents the big advantage of being self-cleaning and therefore of keeping the valve free from scale build-up. The spindle is in OT58 brass and is rendered watertight by two O-Rings in viton.

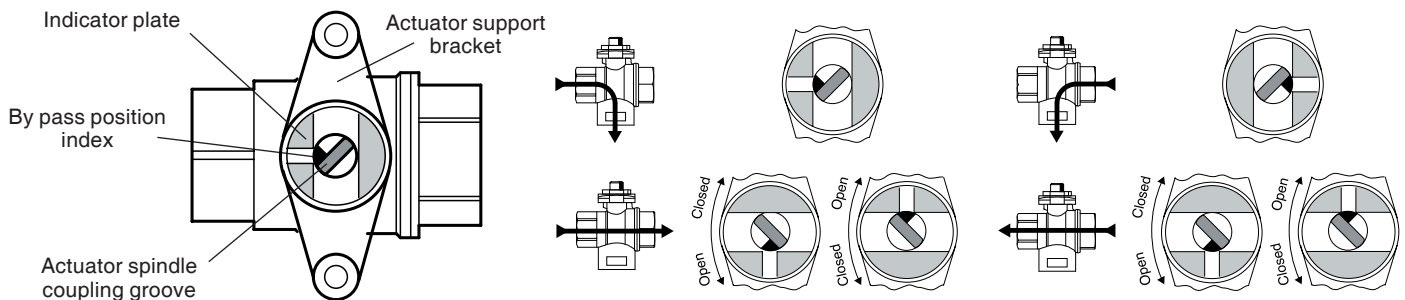
6. MOUNTING

Before mounting the valve make sure that there isn't any extraneous matter in the pipework (remains of welding or threading). The pipework must not be subject to vibrations and must be perfectly aligned with the valve unions in order to avoid dangerous strains. The valve can be mounted in any position except with the spindle facing downwards. Leave enough space on the spindle side for the mounting of actuator (see section 8).

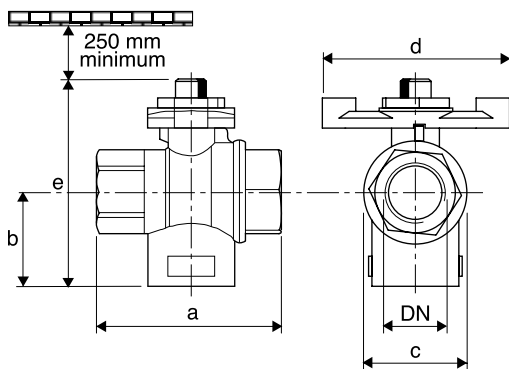


7. OPERATION

The valve operates with a 90° rotary movement. Through port is full bore with a high flow coefficient; by-pass has a restricted bore with a reduced flow coefficient. The position of the by-pass flow is indicated by a groove in the head of the coupling spindle and by an indicator plate, firmly secured to the spindle, which permits to locate the position of the ball even when the actuator is mounted.

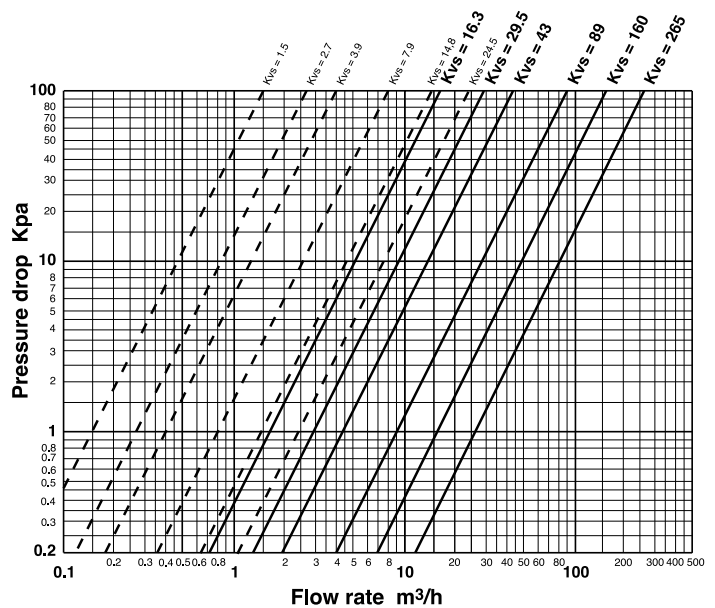


8. OVERALL DIMENSIONS



Model	DN inches	a mm	b mm	c mm	d mm	e mm
XLG 315	1/2"	64	33.5	34,5	74	70
XLG 320	3/4"	74	39.5	43	74	80
XLG 325	1"	89	47	53	74	91
XLG 332	1 1/4"	100	54.5	63	74	105
XLG 341	1 1/2"	110	61.5	77	74	122
XLG 351	2"	130	73	93	74	142

9. PRESSURE DROP



Amendment to data sheet

Data	Revision No.	Page	Section	Amendment description	Versione Firmware	Versione Software
03.11.08 MZ	01	2	8. Overall dimensions	Update Overall dimensions's table		



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