Mixer valves

Three-way valve and servomotor

Valve and servomotor to control the water flow in Central Heating and primary Hot Water.

Main features

- Valves and Servomotors designed to be added to the control equipment.
- Possible control via a two-pole thermostat.
- The valve can be manually operated.
- Valve with brass (from 3/4" to 2") or iron (2
 1/2" a 4") body and brass shutter.
- EPDM 'O' rings

Delivery presentation

In two packages:

- 3-way valve
- Servomotor SM-41 and connection kit (for valves up to 2")
- The Servomotor SM-81 includes a connection kit and an operating handle (for valves from 2½" to 4").

Flange connections (including the welding counterflange and the relevant fasteners).

В

200 52

240 63

265 73

Dimensions mm

D

4 x 15

4 x 18

4 x 18

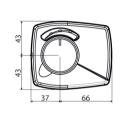
130 160

150 190

170 210



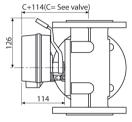
Servomotor SM-41 with direct coupling for 3-way valves from 3/4" to 2"

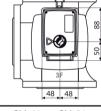




BAXI

SM-81 Servomotor for 3-way valves, 2 1/2" to 4"



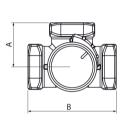


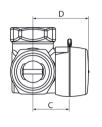
	4 10 4 10 			
	SM-41	SM-81		
Supply voltage	230 V	230 V		
Power	5 VA	5 VA		
Time to turn 90°C	120 sec	120 sec		

Dimensions and Technical Data

3-way valve

Max. operating temperature 110 °C





Threaded connections

Ø	Dimensions mm				
thread	Α	В	C	D	
3/4"	36	72	32	50	
1"	41	82	34	52	
1 1/4"	47	94	37	55	
1 1/2"	53	106	44	60	
2"	60	120	46	64	

Maximum working pressure: PN 10 bar

Valve size selection graph

Α

100,0

120,0

132,5

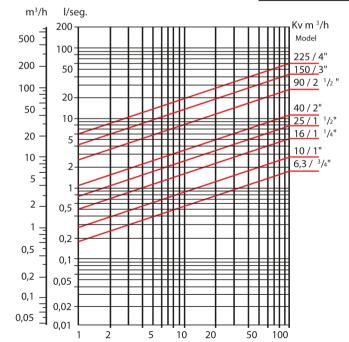
Maximum working pressure: PN 6 bar

Model

2 1/2"

3"

4"



Head loss, KPa water gauge 100 KPa = 1 bar = 10.000 mm.c.a.

Recommendations for selecting the 3-way valves

Three-way valves should be sized such that the pressure drop ranges between 10 and 30% of the system pressure drop.

$$\Delta P_2 = 10 \div 30\%$$
 ΔP_1

In addition, the following conditions should also occur:

1°- $\Delta P_1 + \Delta P_2 \le Pump$ pressure.

 2° - $\Delta P_{BC} \simeq \Delta P_{CA}$ (boiler circuit)

 3° - ΔP_{CA} must be as small as possible (by-pass).

