

Piston zone valves

art. VZ 00/01 - VZ 20 - VZ 30



A zone valve is used to automatically cut-off the flow relative to a thermal zone, thanks to the action of an actuator which is generally operated by a room thermostat. Series VZ valves are piston zone valves with thermostatically controllable inserts, proposed in different versions suitable for brass bar manifold (VZ 00/01) and coplanar manifolds (VZ 20). Art. VZ 30 can be used either as a mixing valve or as a diverter valve. Available with 3/4" or 1" soft-seal pipe union connections.

■ TECHNICAL FEATURES

Max operating temperature: 120 °C
Max operating pressure: 10 bar

■ MATERIALS

Zone valve

Valve body: cast brass CB753S
Headwork and stem: brass CW617N

Spindle: stainless steel
O-ring and gaskets: peroxide EPDM
Spring: spring stainless steel
Cover: ABS

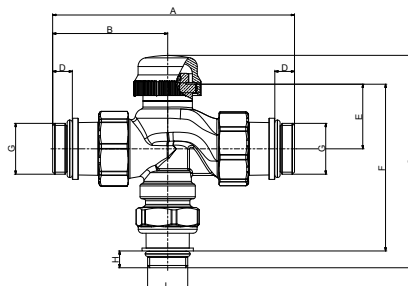
Lockshield fitting (art. VZ 00/01 - VZ 30)

Brass components: CW617N
O-ring: peroxide EPDM
Plug sealing: asbestos-free gasket material

Pipe (art. VZ 00/01): nickel-plated half-hard copper pipe

■ DIMENSIONS

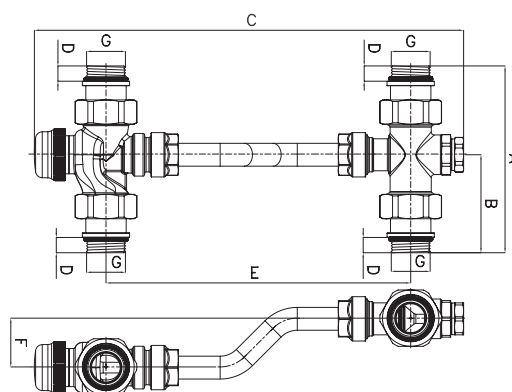
VZ 30. Three-way mixing/diverter valve



ART.	COD.	A	B	C	D	E	F	G	H	L
VZ 30	550710	123	58.5	108	10	32.5	85	3/4"	8.5	1/2"
VZ 30	550711	129	61.5	108	10.5	32.5	85	1"	8.5	1/2"

Actuator connection thread: M30×1.5.

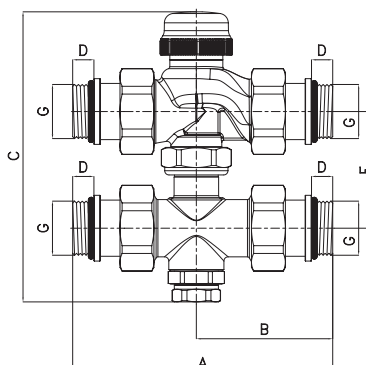
VZ 00-01. Zone valve for brass bar manifolds with adjustable by-pass with position memory



ART.	COD.	A	B	C	D	E	F	G
VZ 00	550700	123	64.5	282	10	200	32	3/4"
VZ 01	550701	123	64.5	332	10	250	32	3/4"
VZ 00	550715	123	64.5	282	10.5	200	32	1"
VZ 01	550716	123	64.5	332	10.5	250	32	1"

Actuator connection thread: M30×1.5.

VZ 20. Zone valve for coplanar manifolds with adjustable by-pass with position memory



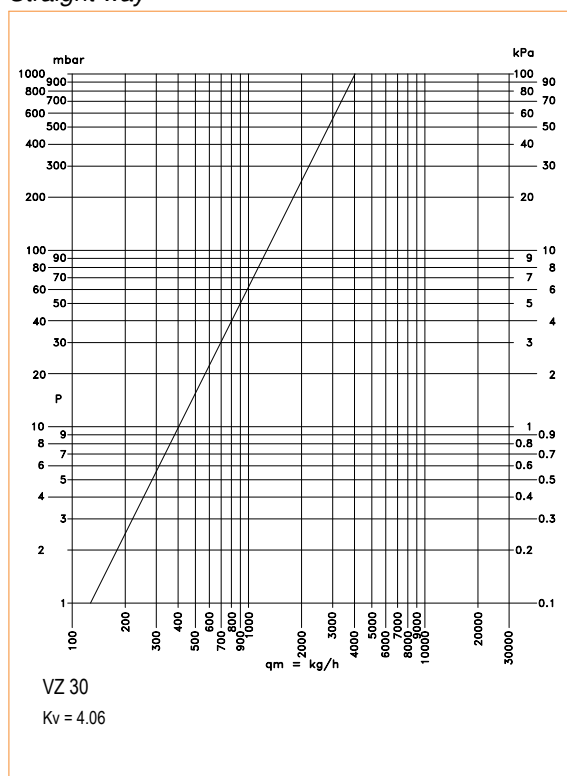
ART.	COD.	A	B	C	D	E	G
VZ 20	550705	123	64.5	137	10	55	3/4"
VZ 20	550706	129	67.5	137	10.5	55	1"

Actuator connection thread: M30×1.5.

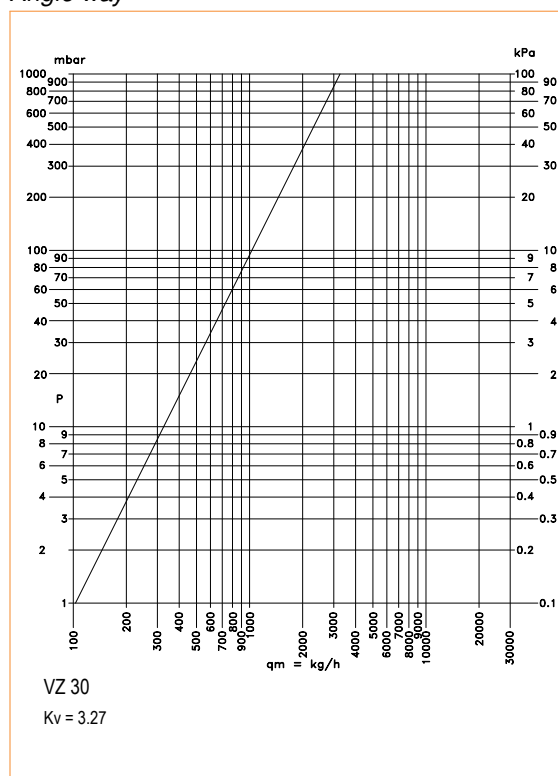
■ HYDRAULIC FEATURES

VZ 30

Straight way

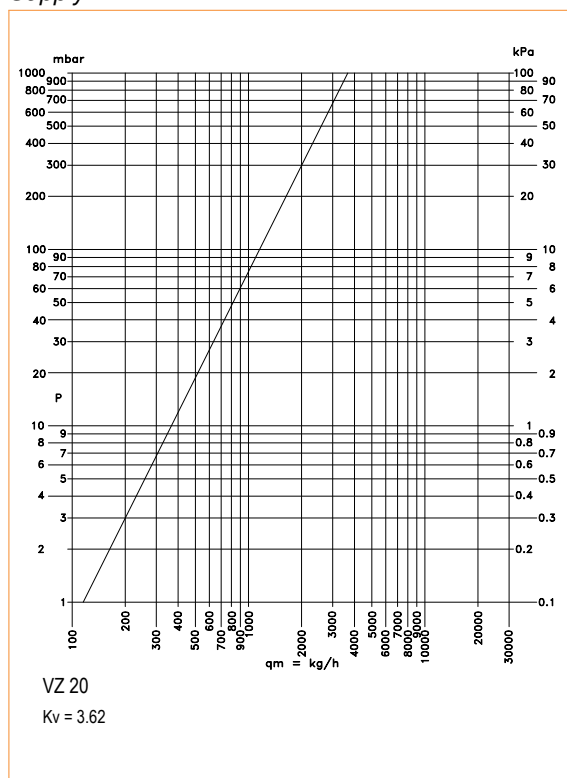


Angle way

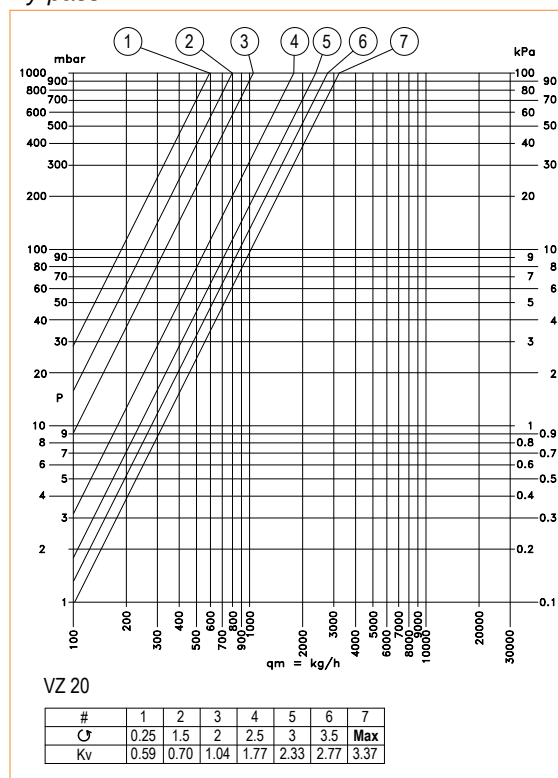


VZ 20

Supply

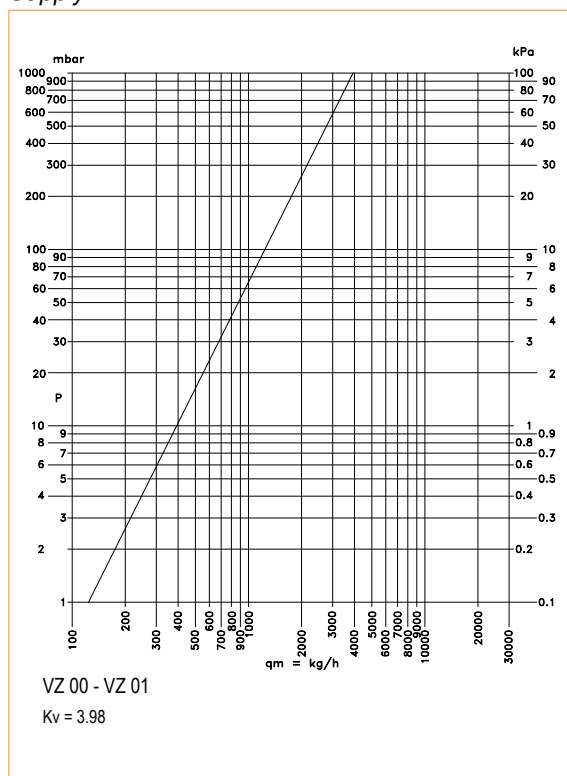


By-pass

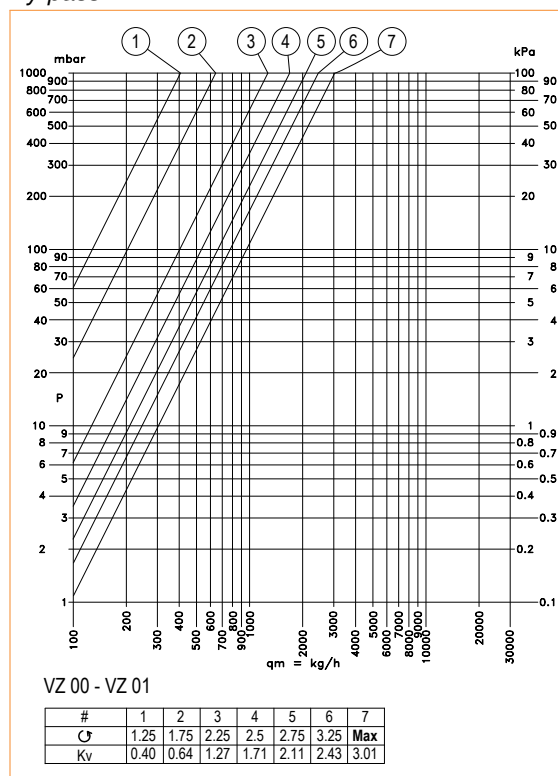


VZ 00 - VZ 01

Supply



By-pass

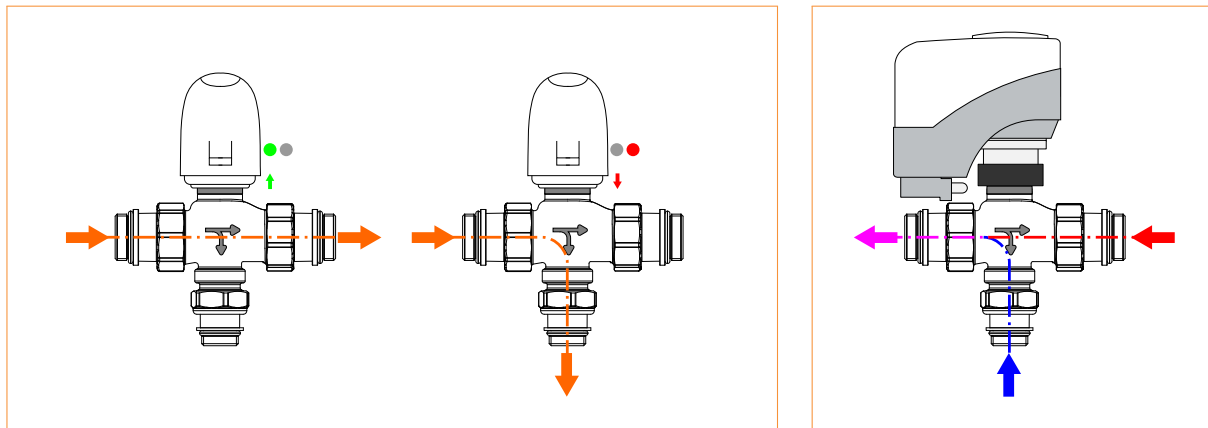


■ OPERATING INSTRUCTIONS

Applications of VZ 30 valve

Valve VZ 30 can be used in either of the following ways:

- as diverter valve (Fig.1a);
- as mixing valve (Fig.1b).



(a) Diverter valve.

(b) Mixing valve.

Fig. 1: Applications of VZ 30 valve.

Adjustment of lockshield insert (articles VZ 00-01 and VZ 20)

For a proper adjustment of lockshield insert, it is necessary to proceed as follows:

1. Use a screwdriver to unscrew and extract the notched screw located within the hexagonal key-way;
2. Use a 5 mm allen key to close the large adjustment screw (Fig.2a);
3. Screw the notched screw all the way back in. Next, mark the adjustment reference point with an "x" (Fig.2b);
4. Align the screwdriver with the "x";
5. Loosen the screw by the proper number of turns (Fig.2c), based on the attached Kv diagram;
6. Open the large screw completely (Fig.2d).

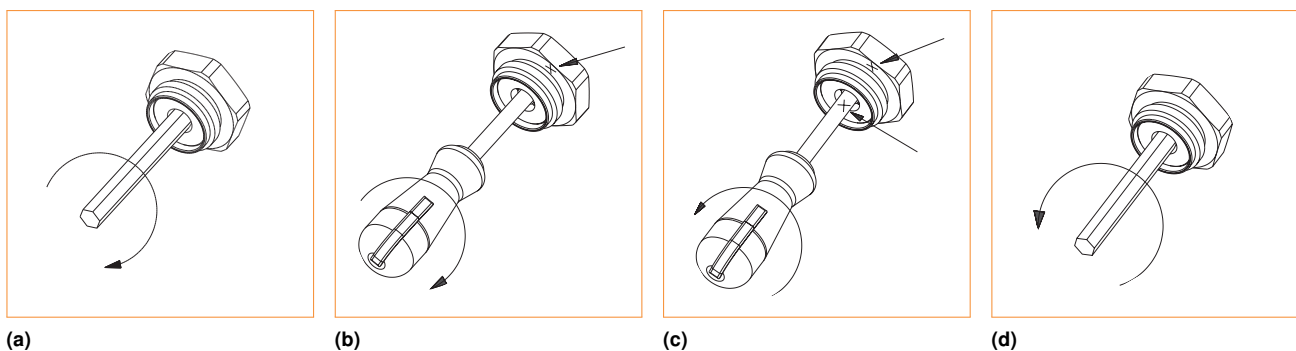


Fig. 2: Adjustment of lockshield with position memory.

■ ACCESSORIES



TE 3040/TE 3041.
2-wire on/off
electrothermal head,
230 V or 24 V.



TE 3050M/TE 3051M.
4-wire on/off
electrothermal head
with auxiliary contact,
230 V or 24 V.



NRV 230 - SRV 24 -
NRV 24. Axial
servomotor: 230
V/3-point, 24
V/proportional, o 24
V/3-point.



AC 701. Digital
thermostat.



AC 710. Daily/weekly
programmable digital
chronothermostat.

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