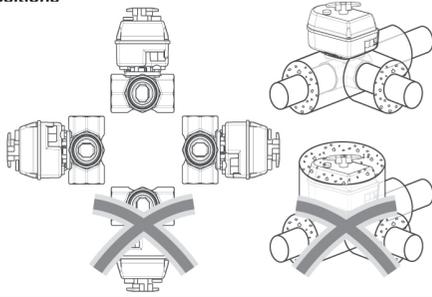
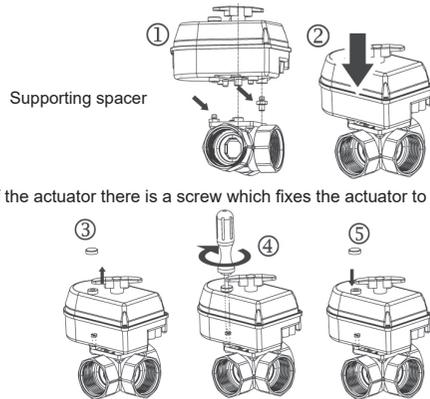


Mounting positions

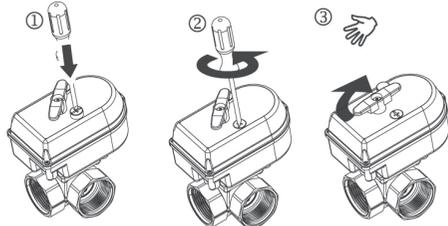


Assembly of the actuator to the valve



At the bottom of the actuator there is a screw which fixes the actuator to the valve.

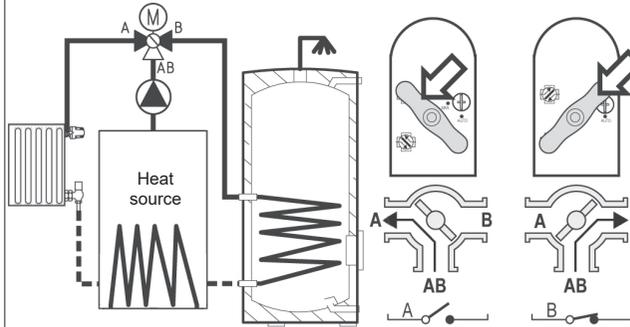
Manual control



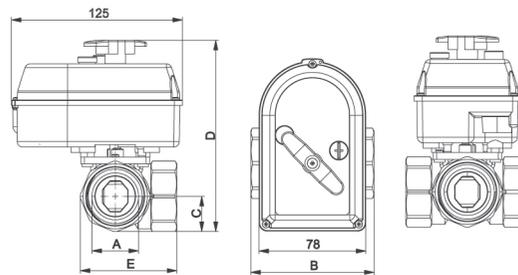
Safety instructions:

- The actuator is designed for domestic use in HVAC installations. Do not use the product when technical requirements exceed actuator specifications. Do not use the product in planes or in other means of transport.
- Note: Observe the correct connection voltage.
- The installation and repair of the actuator can only be carried out by qualified experts in accordance with laws and standards in force.
- The actuator must be protected from moisture. Do not use the actuator in outdoor areas.
- After installation, the actuator must be taken into operation by a qualified expert in order to check whether the actuator works properly.

Position of valve and direction of flow



Dimensions: UV3-PAW

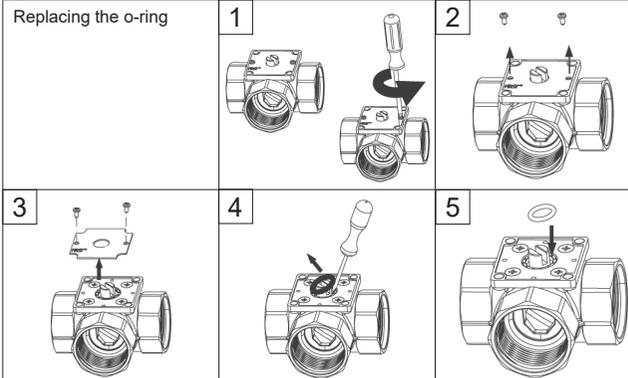


Type	DN	A	B	C	D	E	Kvs	kg
UV3-PAW (563533)	20	3/4"	72	18.5	130.0	54.0	7	0.92
UV3-PAW (563543)	25	1"	82	20.5	133.0	66.0	11	0.98
UV3-PAW (563553)	32	1 1/4"	94	24.5	140.0	70.5	15	1.38

Replacing the o-ring (in case of emergency)

With a screwdriver unscrew the screws (1 and 2). Remove the plate (3). With a screwdriver remove the o-ring used (4). Insert a new o-ring (5). Cover it with the plate and screw tight both screws. The replacement of o-ring spindle gaskets must be carried out by a qualified expert when there is no pressure on the circuit, according to the operation conditions and to annual maintenance.

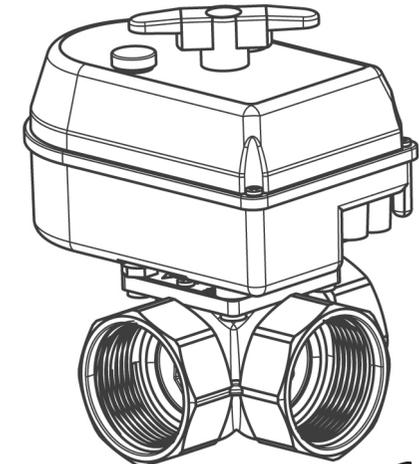
Replacing the o-ring



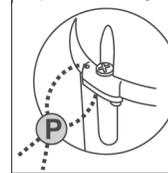
PAW GmbH & Co.KG
Böcklerstraße 11, 31789 Hameln - GERMANY
Phone: +49-5151-9856-0; Fax: +49-5151-9856-98
info@paw.eu; www.paw.eu



UV3-PAW 3-way switch valve in brass with compact actuator



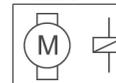
Option for sealing



built-in relay module

2-point control

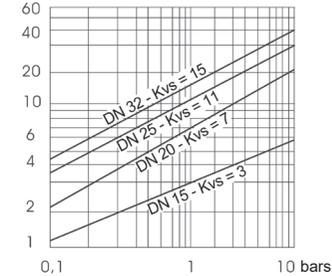
1 / 0



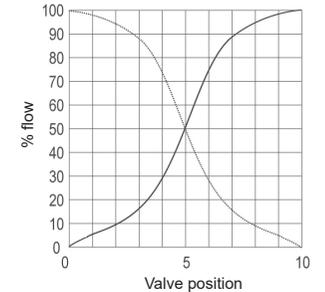
PN10, ΔP < 1 bar
+2 ... 110 °C



Kvs for valves



Flow characteristics



English

Installation and
Operation Instructions



English

General Information

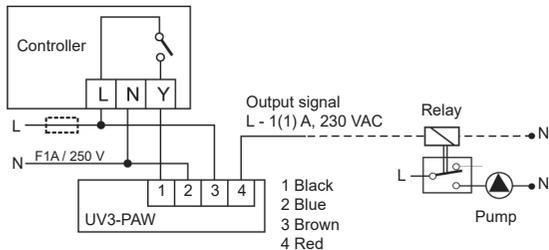
3-way switch valve in brass with compact actuator, with internal thread 3/4" to 1/4". It is used as switching element in closed heating systems e.g. heating to DHW charging, oil/gas boiler to solid fuel boiler or alternative sources of energy, heat pumps, solar installation.

Advantages

- The actuator is designed for easy on-site installation directly to the diverting valve. When the actuator reached either end position the voltage supply is interrupted by limit switched.
- In case of a failure by the controller the actuator can be put in manual mode. To disengage the gears, turn the button AUTO/MAN with a screwdriver. The valve can be put in any position by turning the actuator handle.
- Compact design, allows a quick integration into the system.
- Efficient and economic use as switch valve in systems with two heating sources or in systems with two consumers - heating and domestic hot water.
- Versions with relay can be used for 2-point control and for parallel operation of several actuators.
- Quick replacement of o-rings without disassembling the valve from installation.
- Electric signal L (phase) in end position (e.g. for control of pump).

Wiring plan

2-point control



As factory setting, the valve has an output signal of B-AB. If the actuator is rotated by 90°, the output signal changes into the position A-AB (see scheme: Installation of the actuator and output signal).



WARNING!

During electrical connection, an element has to be installed between the actuator and the mains in order to guarantee a minimum distance of 3 mm (switch or controller relay contact).

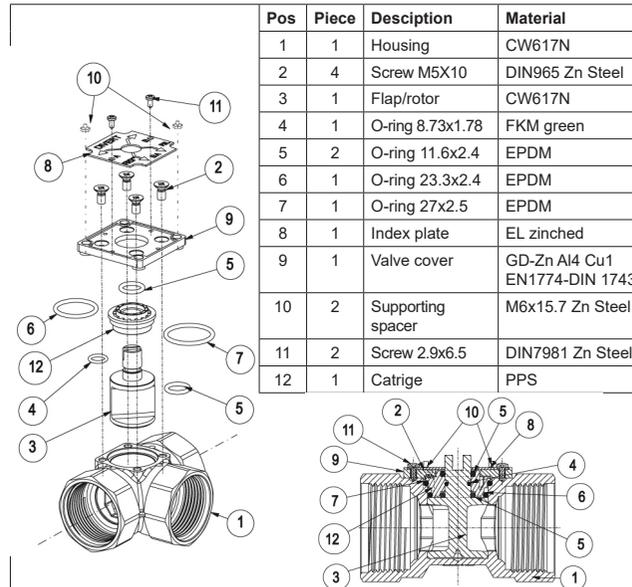
The actuator must be protected by a fuse 1 A.

Before opening the housing cover it is necessary to disconnect the power supply.

Observe the laws and standards in force.

The output signal is intended only for the indication of the end position. It can also be used as control signal e.g. for controlling the pump.

For controlling the pump use a relay.



Pos	Piece	Description	Material
1	1	Housing	CW617N
2	4	Screw M5x10	DIN965 Zn Steel
3	1	Flap/rotor	CW617N
4	1	O-ring 8.73x1.78	FKM green
5	2	O-ring 11.6x2.4	EPDM
6	1	O-ring 23.3x2.4	EPDM
7	1	O-ring 27x2.5	EPDM
8	1	Index plate	EL zinched
9	1	Valve cover	GD-Zn Al4 Cu1 EN1774-DIN 1743
10	2	Supporting spacer	M6x15.7 Zn Steel
11	2	Screw 2.9x6.5	DIN7981 Zn Steel
12	1	Cartridge	PPS

Technical data

Valve characteristics	UV3-PAW
Connections	3-way, internal thread
Fluid	Cold and hot water, water with max. 50% glycol. Do not use the valve with flammable or explosive liquids or combustible gases!
Operating temperature	+2 °C ... +110 °C
Operating pressure	PN 10
Max. admissible pressure loss	1 bar
Leakage rate	0.2 % Kvs
Actuator	
Supply voltage	230 VAC, 50/60 Hz
Runtime	18 s / 90°
Power consumption	9 VA in operation, 5 VA in stand-by (relay ON), 0 VA (relay OFF)
Torque	8 Nm
Output signal	Phase L, 1(1)A
Protection class	II (protective insulation)
Type of protection	IP44
Connection	cabel 1 m, 4 x 0.5 mm ²
Sense of rotation	not defined cw/ccw
Manual operation	mechanical disengagement
Position indication	actuator handle
Ambient temperature	0 °C ... +55 °C, non-condensing
Non-operating temperature	-20 °C ... +80 °C
Maintenance	annual maintenance

Mounting example on the back side

