

DESCRIPTION

# 662/3

2-way control valve for fan coils for heating and cooling applications. As zone valve, its use is restricted by the working max differential pressure which limits the working flow rate range. Axial movement for flow rate control of terminal units.

Normally open valve equipped with NPT union male connections with 3 mm thick EPDM gaskets.

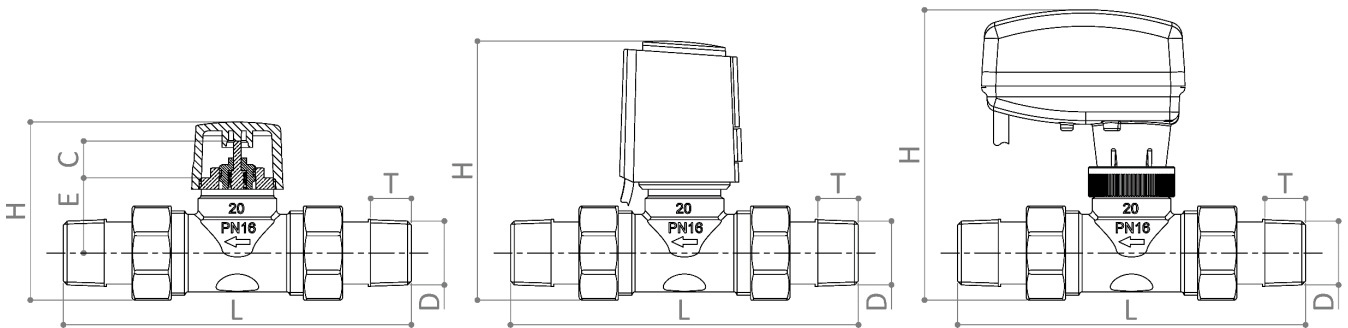
Provided with a commissioning cap. Suitable for actuators with threaded connection M30x1,5 (stroke 3 mm) to implement an ON/OFF control strategy.

DIMENSIONS

#1 Valve without actuator

#2 Valve with actuator series A54 or V54

#3 Valve with actuator series VA7481



Dimensions in mm

	D	T	H	L	E	C <sub>min</sub>	C <sub>max</sub>	Width	Weight [g]*
#1	½" NPT	15	70	150	29.5	11.5	14.5	37	475
	¾" NPT	15	70	137	29.5	11.5	14.5	37	460
	1" NPT	16.5	70	159	29.5	11.5	14.5	37	570
#2	½" NPT	15	101	150	-	-	-	48	475
	¾" NPT	15	101	137	-	-	-	48	460
	1" NPT	16.5	101	159	-	-	-	48	570
#3	½" NPT	15	114	150	-	-	-	49	475
	¾" NPT	15	114	137	-	-	-	49	460
	1" NPT	16.5	114	159	-	-	-	49	570

\*Weight does not include the actuator. For the weight of the actuators see their dedicated technical specifications.

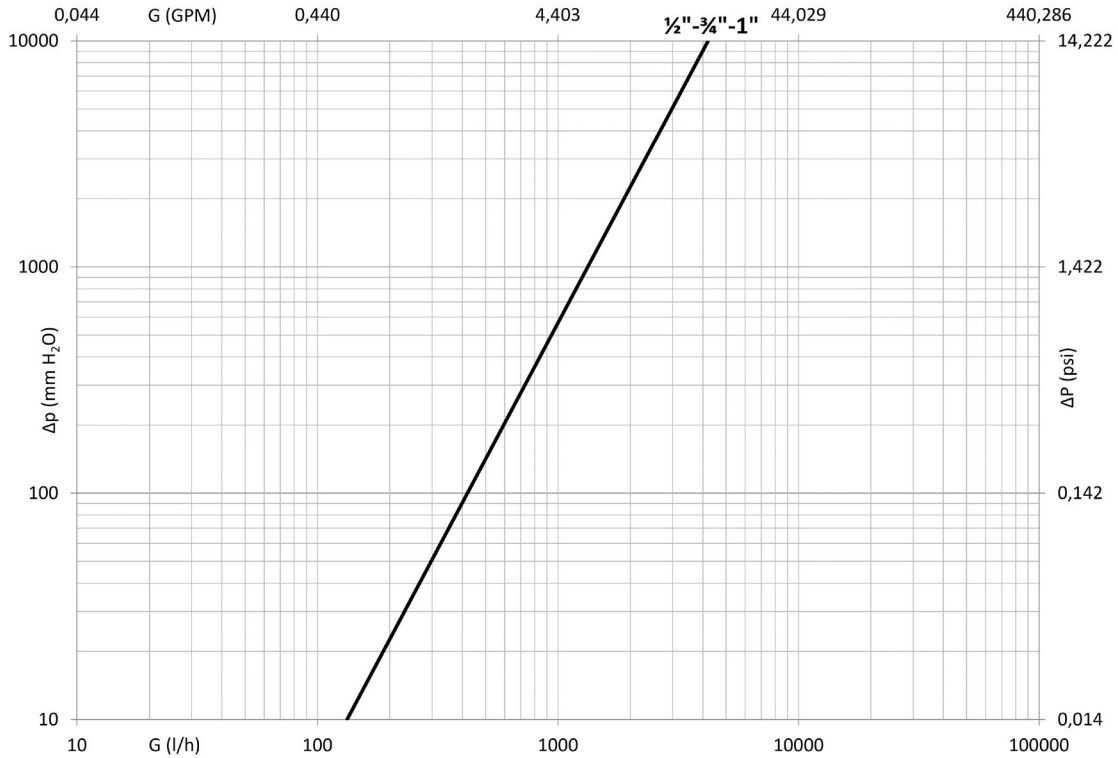
MATERIALS

- Body** CW617N (UNI EN 12165) CuZn40Pb2
- Headwork** CW614N (UNI EN 12164) CuZn39Pb3
- Stem** CW614N (UNI EN 12164) CuZn39Pb3 Nickel plated
- Spring** Stainless steel AISI 302
- Stuffing box** CW614N (UNI EN 12164) CuZn39Pb3
- O-rings** 1 x EPDM + 3 x NBR
- Cap** White ABS
- Nut** CW617N (UNI EN 12165) CuZn40Pb2
- Tang** CW510L (UNI EN 12164) CuZn42

Gaskets

2 x EPDM (thickness 3 mm)

**PRESSURE DROP DIAGRAM**



Size	1/2" NPT	3/4" NPT	1" NPT
Kv	4.2	4.2	4.2
Cv	4.86	4.86	4.86
PN	16	16	16

**TECHNICAL FEATURES**

Pressure rating	Working temperature range*	Working differential pressure (no noise)	Medium**
PN16	2°C – 120°C	0.5 bar – 7.25 psi	Water or water+glycol 40%

\*No frost and no steam. Working temperature range may change if an actuator is installed: for working temperature limits of the actuators see their dedicated technical specifications. \*\*Water quality must comply with UNI 8065. A strainer upstream is suggested.

**CLOSE-OFF PRESSURE**

According to the valve technology, it is mandatory not to exceed the maximum differential pressure values in order to ensure the right operation with all the different actuators, whether the valve is installed as a control valve (terminal units) or a zone valve. These values are collected in the following table:

Valve type	Valve with cap		Valve with actuator series A54 or V54		Valve with actuator series VA7481	
	[bar]	[psi]	[bar]	[psi]	[bar]	[psi]
1/2" NPT	3	43.51	1	14.50	2	29.01
3/4" NPT	3	43.51	1	14.50	2	29.01
1" NPT	3	43.51	1	14.50	2	29.01

**ACTUATORS**

Type	Part number	Stroke	Adapter
24 V, 3 Point floating	VA7481	6.3 mm	Not needed
230 V, 3 Point floating	VA7481	6.3 mm	Not needed
24 V, 0-10 V Proportional Thermic	A544O2S	4 mm	VA80 (included)
24 V, ON-OFF PWM Thermic	A542O2S	4 mm	VA80 (included)
230 V, ON-OFF PWM Thermic	V542O2Q	4 mm	VA80 (included)

For further informations about the actuators please refer to their dedicated technical specifications.



VA7481 series



A54 series



V54 series

**INSTALLATION**

The valve can be installed in any position between the horizontal. Upside down installation must be avoided in order not to expose the actuator, if installed, to any water or dew (Fig. 1). Pay attention to the direction of the flow when installing the valve and check that it is same indicated by the arrow on the valve body (Fig. 2).

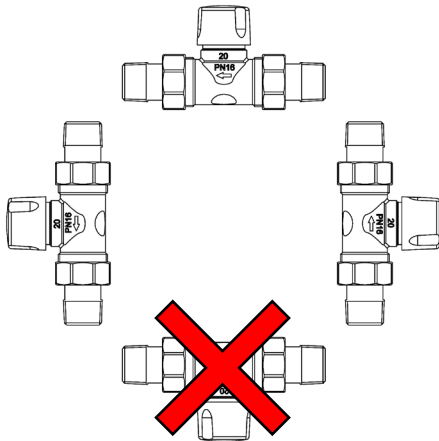


Fig. 1

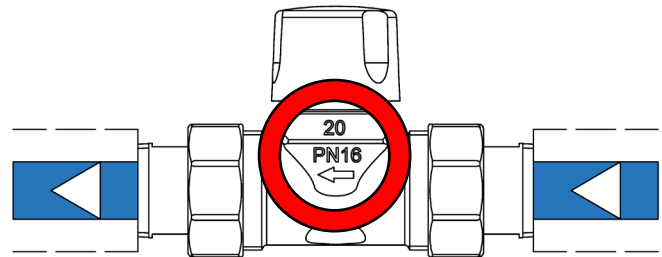


Fig. 2