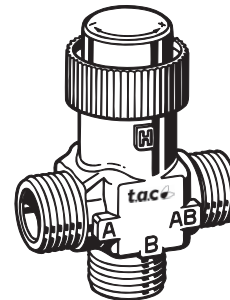
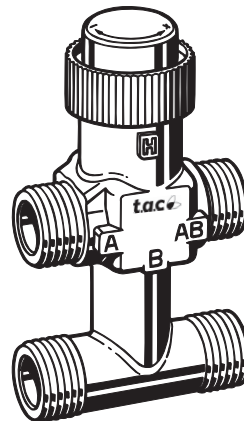


VZ22



VZ32



VZ42

These small linear valves are used for the control of hot and/or chilled water for fan coil units, small reheaters/recoolers in electric/electronic temperature control systems.

The valves are used together with actuators MZ18 or MZ10.

TECHNICAL DATA

Valve types

Two-way valve	VZ22
Three-way valve	VZ32
Three-way with bypass	VZ42

Part number

see next page

Capacity index

see next page

Nominal pressure rating

PN16 (232 psi)

Flow characteristics

Equal percentage port A-AB

..... Linear for bypass B-AB

Rangeability

Two-way valve

50:1

Three-way valve

50:1 for controlled port

Leakage rate

< 0.02% of kv

Connections

External tread

Suitable medium

Water according to VDI 2035
max. 50% glycol

Controlled water temperature

2 to 120 °C (36 to 248 °F)

Material

Valve body

DN15 yellow brass

.....

DN20 red brass

Stem

Stainless steel

Plug

Brass

Function

Two-way valve

stem up to open port A to B

Three-way valve

stem up to close port A to AB

Stroke

6.5 mm (0.26 in.)

Dimensions

see page 4

PART NUMBERS

Flow Capacities and Close off Pressure Ratings

Two-way valves, VZ22

DN	in.	Valve		TAC Part no.	Close-Off Pressure with Actuators			
		k_{VS}	c_V		MZ18A,MZ18B,MZ18L; 180 N (40 lbf)		MZ10T; 96 N (22 lbf)	
					kPa	(psi)	kPa	(psi)
15	½"	0.16	0.19	721-0702	1600	(232)	600	(87)
15	½"	0.25	0.29	721-0706	1600	(232)	600	(87)
15	½"	0.40	0.47	721-0710	1600	(232)	600	(87)
15	½"	0.63	0.74	721-0714	1600	(232)	600	(87)
15	½"	1.00	1.17	721-0718	1200	(174)	180	(26)
15	½"	1.6	1.9	721-0722	1200	(174)	180	(26)
20	¾"	2.5	2.9	721-0726	400	(58)	50*	(7.3)
20	¾"	4.0	4.7	721-0730	400	(58)	50*	(7.3)

*Up to 1000 kPa (145 psi) system pressure.

Three-way valves, VZ32

DN	in.	Valve				TAC Part no.	Close-Off Pressure with Actuators			
		A-AB		B-AB			MZ18A,MZ18B,MZ18L; 180 N (40 lbf)		MZ10T; 96 N (22 lbf)	
		k_{VS}	c_V	k_{VS}	c_V		kPa	(psi)	kPa	(psi)
15	½"	0.25	0.29	0.16	0.19	731-0706	800	(116)	500	(73)
15	½"	0.40	0.47	0.25	0.29	731-0710	800	(116)	500	(73)
15	½"	0.63	0.74	0.40	0.47	731-0714	800	(116)	500	(73)
15	½"	1.00	1.17	0.63	0.74	731-0718	250	(36)	150	(22)
15	½"	1.6	1.9	1.00	1.17	731-0722	250	(36)	150	(22)
20	¾"	2.5	2.9	1.6	1.9	731-0726	240	(35)	-	
20	¾"	4.0	4.7	2.5	2.9	731-0730	240	(35)	-	
20	¾"	2.5	2.9	1.6	1.9	731-0727	100	(15)	50	(7.3)
20	¾"	4.0	4.7	2.5	2.9	731-0731	100	(15)	50	(7.3)

Three-way valves with bypass, VZ42

DN	in.	Valve				TAC Part no.	Close-Off Pressure with Actuators			
		A-AB		B-AB			MZ18A,MZ18B,MZ18L; 180 N (40 lbf)		MZ10T; 96 N (22 lbf)	
		k_{VS}	c_V	k_{VS}	c_V		kPa	(psi)	kPa	(psi)
15	½"	0.25	0.29	0.16	0.19	741-0706	800	(116)	500	(73)
15	½"	0.40	0.47	0.25	0.29	741-0710	800	(116)	500	(73)
15	½"	0.63	0.74	0.40	0.47	741-0714	800	(116)	500	(73)
15	½"	1.00	1.17	0.63	0.74	741-0718	250	(36)	150	(22)
15	½"	1.6	1.9	1.00	1.17	741-0722	250	(36)	150	(22)
20	¾"	2.5	2.9	1.6	1.9	741-0726	240	(35)	-	
20	¾"	4.0	4.7	2.5	2.9	741-0730	240	(35)	-	

FUNCTION

A built-in return spring in the two-way valve produces an opening force.

In the three-way valve and the three-way valve with bypass, the spring produces a closing force on the A to AB ports.

The valves are supplied with a screwed-on adjustment cap for manual operation and for protection of the stem.

Soft seat provides low leakage rate and high rangeability

Valve inserts changeable without draining by using special tools.