



## FAN COIL VALVE BODIES - STROKE 4,5 mm

VFC

### APPLICATION

VFC series valve is used in heating, cooling and air-conditioning system. Three models are available: VFC21x (2-way), VFC31x (3-way) and VFC41x (3-way 4-port). 2-way and 3-way VFC valves are normally closed on direct way (angle way on 3-way valve is normally open), actuators that drive them can be electrothermal or electromechanical type.

The double O-ring stem packing ensures high sealing performance. VFC valves are compact, reliable and can be easily mounted.

They can be used with SE2 electrothermal actuators.

TYPE	WAY	CONNECTION	KVs m <sup>3</sup> /h		MAX PRESS. DIFF. bar
			DIRECT WAY	ANGLE WAY	
VFC210	2	G 1/2	0.25	-	2.5
VFC211	2	G 1/2	0.4	-	2.5
VFC212	2	G 1/2	0.6	-	2.5
VFC213	2	G 1/2	1.0	-	2.5
VFC214	2	G 1/2	1.6	-	2.5
VFC215	2	G 1/2	2.5	-	2,5
VFC235	2	G 3/4	2.5		2.5
VFC310	3	G 1/2	0.25	0.25	2.5
VFC311	3	G 1/2	0.4	0.4	2.5
VFC312	3	G 1/2	0.6	0.6	2.5
VFC313	3	G 1/2	1.0	0.8	2.5
VFC314	3	G 1/2	1.6	1.0	2.5
VFC315	3	G 1/2	2.5	1.6	2.5
VFC335	3	G 3/4	2.5	1.6	2.5
VFC410	3 (4 port)	G 1/2	0.25	0.25	2.5
VFC411	3 (4 port)	G 1/2	0.4	0.4	2.5
VFC412	3 (4 port)	G 1/2	0.6	0.6	2.5
VFC413	3 (4 port)	G 1/2	1.0	0.8	2.5
VFC414	3 (4 port)	G 1/2	1.6	1.0	2.5
VFC415	3 (4 port)	G 1/2	2.5	1.6	2.5
VFC435	3 (4 port)	G 3/4	2.5	1.6	2.5

### TECHNICAL FEATURES

**Nominal pressure:** PN16  
**Control stroke:** 4,5 mm  
**Regulation mode:** linear  
**Leakage:** perfect sealing  
**Valve body:** forged brass  
**Stem:** PA + GF  
**Plug spring:** stainless steel  
**Flow guide:** PPO + GP  
**Plug:** PA + GF

**Stem gland seal:** "O" ring FKM  
**Fluids:** water with max. 40% of glycol  
**Fluid temperature:** +2...+95 °C  
**Dimensions:** see schedule on next page  
**Weight:** see schedule on next page  
**Actuator:** electrothermal SE2 series

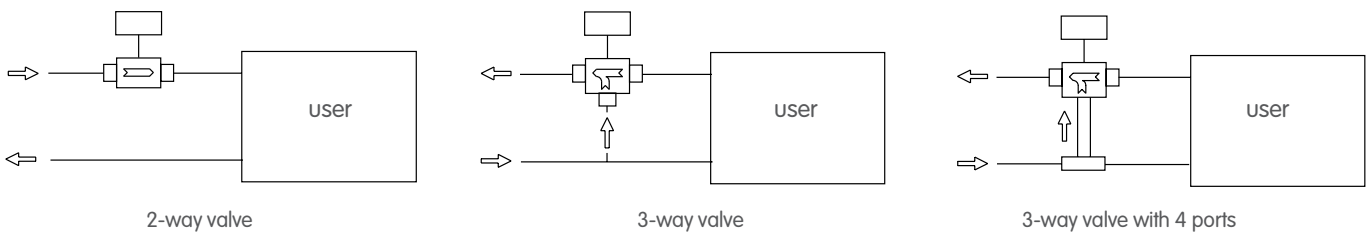
**Accessory:** manual control VTP



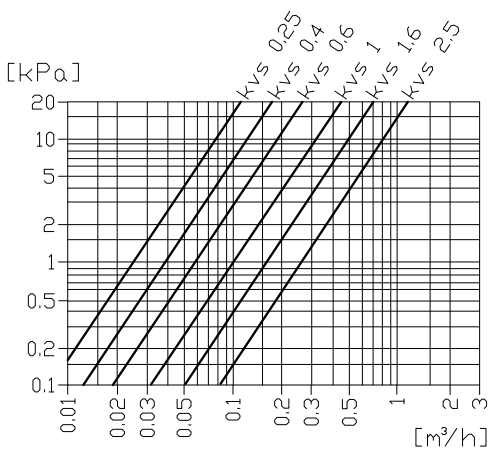
INSTALLATION

Before mounting the valve body be sure that the pipes are clean and free of soldering scraps. Pipes must be lined up squarely with the valve at each connection and free of vibrations. Install the valve/actuator vertically or horizontally but never upside down. Leave enough clearance to facilitate the dismantling of actuator from the valve body for maintenance purpose. The valve must not be installed in explosive atmosphere or in

ambient with temperature and humidity outside the ranges indicated on technical features part. Valve must not be subjected to water or steam jets or dripping liquid. 3-way valve must be used in mixing way (2 inlets 1 output). If the valve is used in diverting way (1 inlet 2 outputs), the max differential pressure allowed is one third of the value indicated in the schedule.

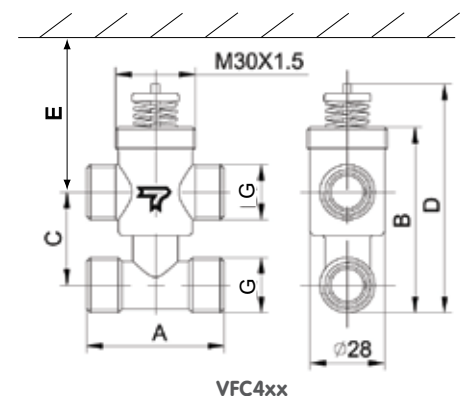
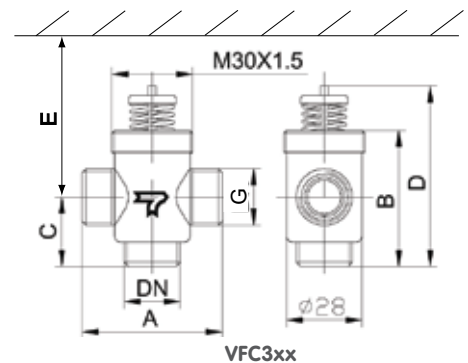
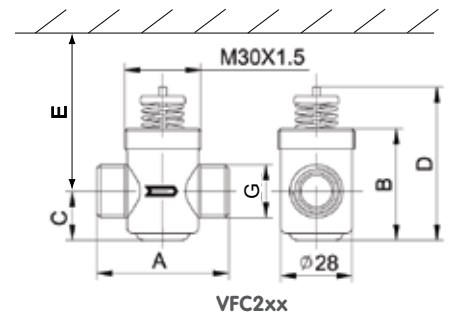


PRESSURE DROP CHART



E >= 130 mm

manual control VTP



DIMENSIONS (mm)

TYPE	DIMENSIONS (mm)					WEIGHT (g)
	G	A	B	C	D	
VFC21x	G 1/2	52	44	19.5	60	108
VFC31x	G 1/2	52	50	25	66	116
VFC41x	G 1/2	52	70	35	86	160
VFC235	G 3/4	56	47	19.5	60	140
VFC335	G 3/4	56	59	25	66	145
VFC435	G 3/4	56	88	50	104	225

