

## FAN COIL VALVE BODIES - STROKE 2,5 mm

VFX

### APPLICATION

VFX valves series are used in heating, cooling and air-conditioning systems. Two-way and three-way VFX valves are normally closed on direct way. VFX valves are compact, reliable and can be easily mounted.

On request they can be supplied with plastic cap that ensures stem protection and manual action. They can be used with SE1 electrothermal actuators.

TYPE	WAY	CONNECTION	KVs m <sup>3</sup> /h		MAX DIFF. PRESS. bar	ACTUATOR
			DIRECT WAY	ANGLE WAY		
VFX210	2	DN15 (G 1/2)	0.25	-	2.5	SE1T / SE1M
VFX211	2	DN15 (G 1/2)	0.4	-	2.5	SE1T / SE1M
VFX212	2	DN15 (G 1/2)	0.6	-	2.5	SE1T / SE1M
VFX213	2	DN15 (G 1/2)	1.0	-	2.5	SE1T / SE1M
VFX214	2	DN15 (G 1/2)	1.6	-	2.5	SE1T / SE1M
VFX235	2	DN20 (G 3/4)	2.5	-	2.5	SE1T / SE1M
VFX237	2	DN20 (G 3/4)	4.0	-	0.8	SE1TP / SE1MP
VFX239	2	DN20 (G 3/4)	6.0	-	0.8	SE1TP / SE1MP
VFX310	3	DN15 (G 1/2)	0.25	0.25	2.5	SE1T / SE1M
VFX311	3	DN15 (G 1/2)	0.4	0.4	2.5	SE1T / SE1M
VFX312	3	DN15 (G 1/2)	0.6	0.6	2.5	SE1T / SE1M
VFX313	3	DN15 (G 1/2)	1.0	0.8	2.5	SE1T / SE1M
VFX314	3	DN15 (G 1/2)	1.6	1.0	2.5	SE1T / SE1M
VFX335	3	DN20 (G 3/4)	2.5	1.6	2.5	SE1T / SE1M
VFX337	3	DN20 (G 3/4)	4.0	2.5	0.8	SE1TP / SE1MP
VFX339	3	DN20 (G 3/4)	6.0	4.0	0.8	SE1TP / SE1MP
VFX410	3 (4 port)	DN15 (G 1/2)	0.25	0.25	2.5	SE1T / SE1M
VFX411	3 (4 port)	DN15 (G 1/2)	0.4	0.4	2.5	SE1T / SE1M
VFX412	3 (4 port)	DN15 (G 1/2)	0.6	0.6	2.5	SE1T / SE1M
VFX413	3 (4 port)	DN15 (G 1/2)	1.0	0.8	2.5	SE1T / SE1M
VFX414	3 (4 port)	DN15 (G 1/2)	1.6	1.0	2.5	SE1T / SE1M
VFX435	3 (4 port)	DN20 (G 3/4)	2.5	1.6	2.5	SE1T / SE1M
VFX437	3 (4 port)	DN20 (G 3/4)	4.0	2.5	0.8	SE1TP / SE1MP
VFX439	3 (4 port)	DN20 (G 3/4)	6.0	4.0	0.8	SE1TP / SE1MP

Accessories	VTP - Override control
	ADVFX - Adapter for SE1C/VFX coupling up to KVS 2,5 to allow the valve to be normally open on direct way

### TECHNICAL DATA

Nominal pressure: PN16  
 Stroke: 2,5 mm  
 Regulation mode: linear  
 Leakage: perfect sealing  
 Valve body: forged brass  
 Stem: PA + GF  
 Stem gland seal: "O" ring FKM  
 Plug spring: stainless steel  
 Flow guide: PPD + GP  
 Plug: PA + GF  
 Fluids type: water with max. 40% of glycol

Fluid temperature: +2...+95 °C  
 Actuator: electrothermal SE1 series  
 Dimensions: see next page  
 Weight: see schedule on next page

### FEATURES AND ADVANTAGES

- Connection between actuator and valve by threaded male M30x1,5 ring nut
- Threaded connection GAS with smooth beat
- Silent operating
- Reliability

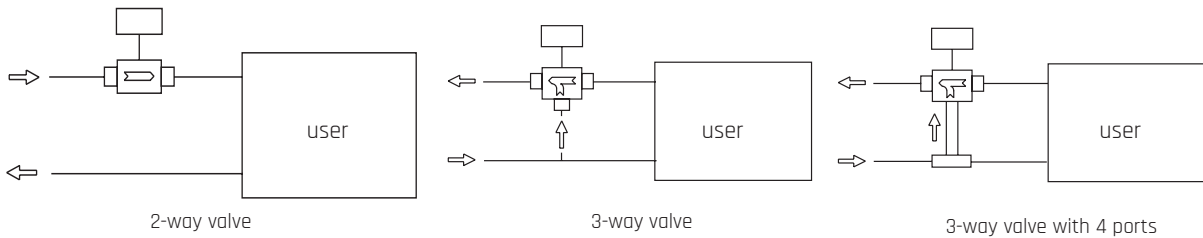
# FAN COIL VALVE BODIES - STROKE 2,5 mm

VFX

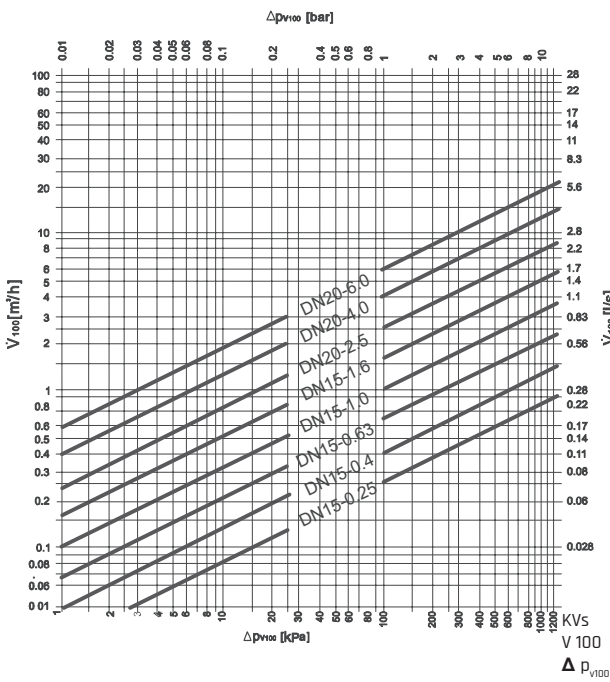
## INSTALLATION

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

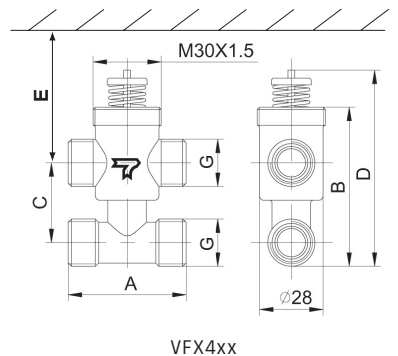
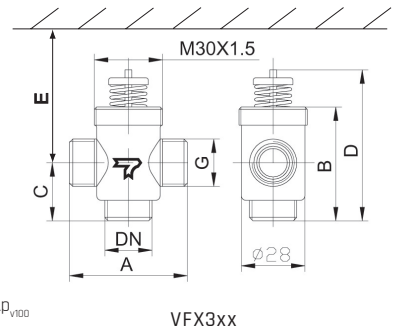
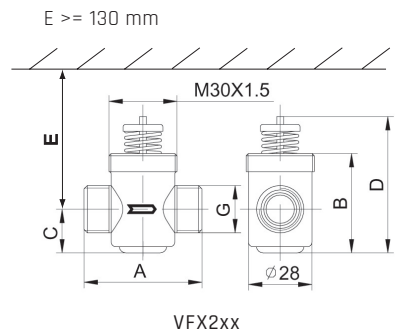
from the valve body for maintenance purpose. Valve must not be subjected to water or steam jets or dripping liquid. 3-way valve must be used in mixing way (2 inlets 1 output). If the valve is used in diverting way (1 inlet 2 outputs), the max differential pressure allowed is one third of the value indicated in the schedule.



## PRESSURE DROP CHART



nominal flow coefficient  
evaluated flow coefficient at  $\Delta p_{v100}$   
differential pressure of valve completely open



## DIMENSIONS (mm)

TYPE	DIMENSIONS (mm)					WEIGHT (g)
	G	A	B	C	D	
VFX210-214	G 1/2	52	46	20	62	110
VFX235	G 3/4	56	46	22	62	120
VFX237	G 3/4	78	59	35	75	420
VFX239	G 3/4	78	59	35	75	420
VFX310-314	G 1/2	52	52	26	68	116
VFX335	G 3/4	56	57	32	73	144
VFX337	G 3/4	78	70	45	86	430
VFX339	G 3/4	78	70	45	86	430
VFX410-414	G 1/2	52	70	35	86	164
VFX435	G 3/4	56	88	50	104	228
VFX437	G 3/4	78	82	44	98	520
VFX439	G 3/4	78	82	44	98	520