NENUTEC®

INNOVATIVE MEMBER OF SWISTEC

VFX – fan coil valve bodies, stroke 2,5 mm



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

VFX SERIES

APPLICATION AND USE

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 easy 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.

KEY FEATURES

- Connection between actuator and valve by threaded male M30x1.5 ring nut
- Gas thread connection
- Quiet operation
- Reliability

TECHNICAL SPECIFICATION

TYPE	WAY	CONNECTION	KVs [m³/h]		MAX DIFF. PRESSURE [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

Accesories	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

Nominal pressure:	PN16
Stroke:	2.5 mm
Control characteristics:	linear
Leakage:	perfect sealing
Valve body:	forged brass
Stem:	PA + GF
Stem sealing:	"O" ring FKM
Plug spring:	stainless steel

Flow guide:	PPO + GP
Plug:	PA + GF
Fluids type:	water with max. 40% glycol
Fluid temperature:	+2...+95°C
Actuator:	electrothermal SE1 series
Dimensions:	see next page
Weight:	see schedule on next page

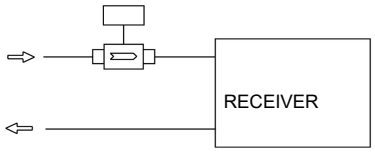
NENUTEC®

INNOVATIVE MEMBER OF SWISTEC

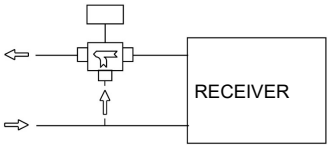
VFX – fan coil valve bodies, stroke 2,5 mm

INSTALLATION

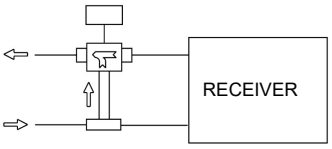
Before mounting the valve body be sure that the pipes are clean and free of soldering scraps. Pipes must be lined up squarely with the valve at each connection and free of vibrations. Install the valve/actuator vertically or horizontally but never upside down. Leave sufficient clearance to facilitate the dismantling of actuator from the valve body for maintenance purpose.
Valve must not be subjected to steam or water jets or dripping liquid. 3-way valve must be used as mixing valve (2 inlets, 1 outlet).
If the valve is used in diverting way (1 inlet, 2 outlets), the max differential pressure allowed is one third of the value indicated in the schedule.



2-way vavle



3-way vavle



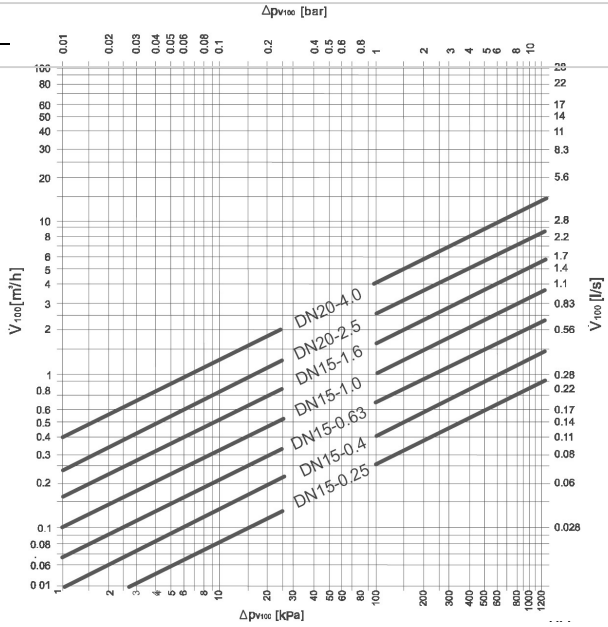
3-way valve with 4 ports

PRESSURE DROP CHART

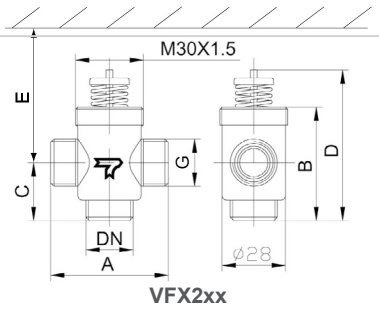
KVS Nominal flow coefficient
V100 Estimated flow coefficient at Δp_{V100}
Δp_{V100} Pressure difference of valve when fully open

Manual control VTP

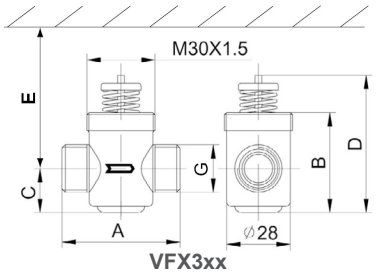




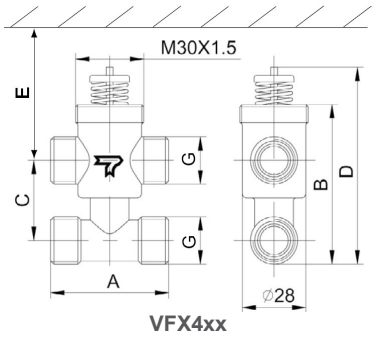
E >= 130 mm



VFX2xx



VFX3xx



VFX4xx

DIMENSIONS [mm]

TYPE	DIMENSIONS [mm]					WEIGIHT [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

Due to continuous product improvement, specifications are subject to change without notice.

Nenutec Polska

00-236 Warszawa
ul. Świętojerska 5/7
tel.: +48-(0)-504-050225
nenutec@nenutec.pl