

Model	Description
VSXT..	two-way valve DN 1/2" - 3/4"; Kvs m ³ /h 0,25 - 6
VMXT..	three-way valve DN 1/2" - 3/4"; Kvs m ³ /h 0,25 - 6 (4 angle way)
VTXT..	three-way valve with built in by-pass DN 1/2" - 3/4"; Kvs m ³ /h 0,25 - 6 (4 angle way)

APPLICATION AND USE

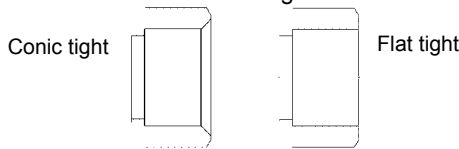
V.XT series valves are used for hot and chilled water control in two- or four-pipe fan coil units, zone plants, solar plants, small re-heaters and dehumidifiers, in electric/electronic temperature control systems. They are motorized by Controlli MVT actuators.

MANUFACTURING CHARACTERISTICS

Brass valve body. Fortron plug with EPDM double OR. Stainless steel stem. Stem packing with EPDM double OR. All models are normally closed, i.e. the action of the valve spring makes the plug move to the upper seat, even with disassembled actuator.

TECHNICAL CHARACTERISTICS

Operating pressure	1600 kPa max (16 bar)
Control characteristics	Equal percentage A-AB port, linear B-AB for Kv 0.25 to 2.5 Linear A-AB port, linear B-AB for Kv4 and Kv6
Stroke	5.5 mm
Max fluid speed	3 m/s
Allowed Fluid	
water	
- temperature	5T95 °C
- glycol-added	Max 30%
Weight	See overall dimensions
Connections	Male threaded gas connection flat or conic tight



PRESSURE DROP DIAGRAM

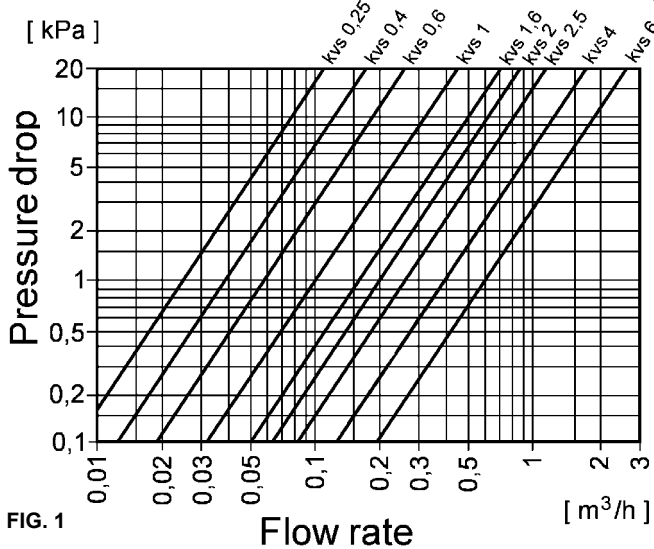


FIG. 1



OPERATION

V.XT valves without the actuator are normally closed (with reference to the direct way). The plug with double EPDM O-ring ensures tight close-off on both straight and angle way in all V.XT models. The valve tight close-off with DeltaP max is guaranteed by the valve spring, even without actuator.

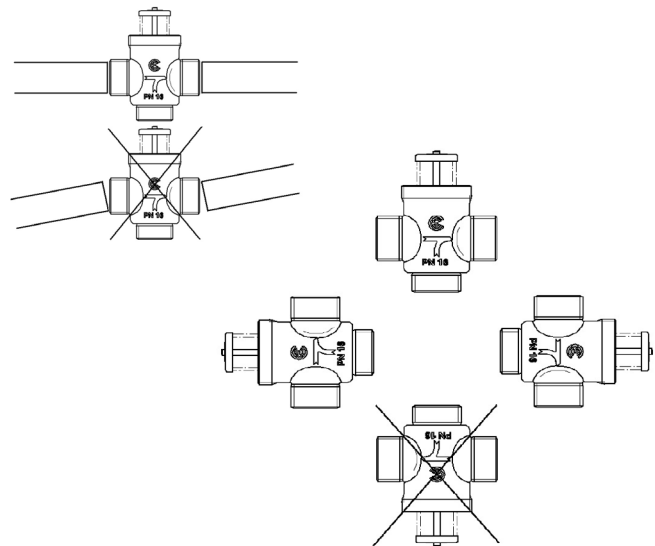
INSTALLATION

Before installing the valve, make sure that pipes are clean, free from foreign matter, perfectly aligned with the valve body and not subjected to vibration.

The valve can be mounted in any position but with the stem pointing downwards. 3-way valves must be used as mixing valves (see fig. 4 and 5).

Should valves be installed as diverting (one inlet two outlets) a reduction to 1/3 of the declared value will result in the max. differential pressure for standard operation.

ALLOWED MOUNTING POSITION



V.XT VALVE ASSEMBLY

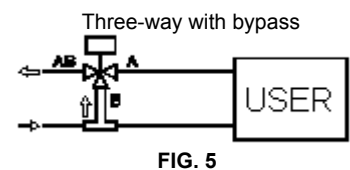
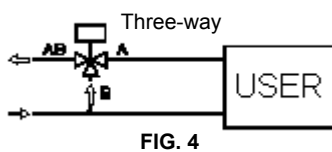
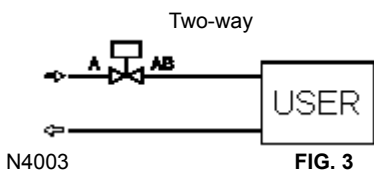
With MVT actuator

Before assembling the valve and the actuator, check that the set-screw is up. If not, remember that, to mount the actuator on the valve in the right position, you have to overcome the spring strenght of the valve itself. Screw in the ring nut M30x1,5 firmly on the valve thread.

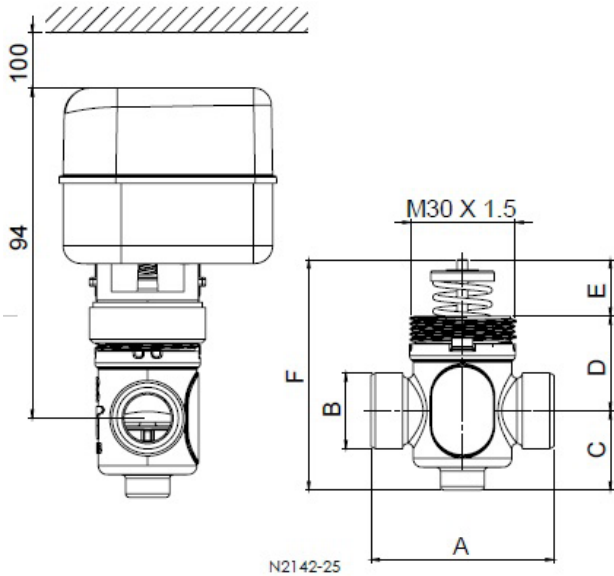
Type	Models	Connections	Flow rate (m³/h)	Dp max (kPa)	Type	Models	Connections	Flow rate (m³/h)	Dp max (kPa)	
Two-way	VSXT09P	G 1/2 Flat tight	0,25	350	Three-way valves with built-in by-pass (4-ports)	VTXT09P	G 1/2 Flat tight	0,25 (0,25)	350	
	VSXT10P		0,4			VTXT10P		0,4 (0,4)		
	VSXT11P		0,6			VTXT11P		0,6 (0,6)		
	VSXT12P		1			VTXT12P		1 (0,6)		
	VSXT13P		1,6			VTXT13P		1,6 (1)		
	VSXT1P		2			VTXT1P		2 (1,6)		
	VSXT21P	G 3/4 Flat tight	2,5	250		VTXT21P	G 3/4 Flat tight	2,5 (2)	250	
	VSXT24P		4	150		VTXT24P		4 (2,5)		
	VSXT26P		6			VTXT26P		6 (4)		
	VSXT09	G 1/2 Conic tight	0,25	350		VTXT09	G 1/2 Conic tight	0,25 (0,25)	350	
	VSXT10		0,4			VTXT10		0,4 (0,4)		
	VSXT11		0,6			VTXT11		0,6 (0,6)		
	VSXT12		1			VTXT12		1 (0,6)		
	VSXT13		1,6			VTXT13		1,6 (1)		
	VSXT1		2			VTXT1		2 (1,6)		
	VSXT21	G 3/4 Conic tight	2,5	250		VTXT21	G 3/4 Conic tight	2,5 (2)	250	
	Three-way	VMXT09P	G 1/2 Flat tight	0,25 (0,25)		350	VTXT09P4	G 1/2 flat tight interaxis 40 mm	0,25 (0,25)	350
		VMXT10P		0,4 (0,4)			VTXT10P4		0,4 (0,4)	
VMXT11P		0,6 (0,6)		VTXT11P4	0,6 (0,6)					
VMXT12P		1 (0,6)		VTXT12P4	1 (0,6)					
VMXT13P		1,6 (1)		VTXT13P4	1,6 (1)					
VMXT1P		2 (1,6)		VTXT1P4	2 (1,6)					
VMXT21P		G 3/4 Flat tight	2,5 (2)	100						
VMXT24P			4 (2,5)							
VMXT26P			6 (4)							
VMXT09		Conic tight	0,25 (0,25)	350						
VMXT10			0,4 (0,4)							
VMXT11			0,6 (0,6)							
VMXT12			1 (0,6)							
VMXT13			1,6 (1)							
VMXT1			2 (1,6)							
VMXT21		G 3/4 Conic tight	2,5 (2)	250						

DeltaP max = max. diff. press. guaranteed with closed valve and open flow (*) The values in brackets represent Kvs on angle way.

APPLICATION DIAGRAMS

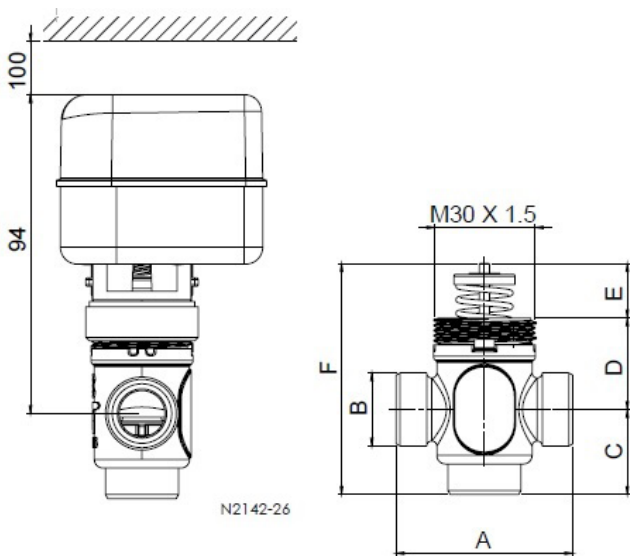


OVERALL DIMENSIONS (mm)



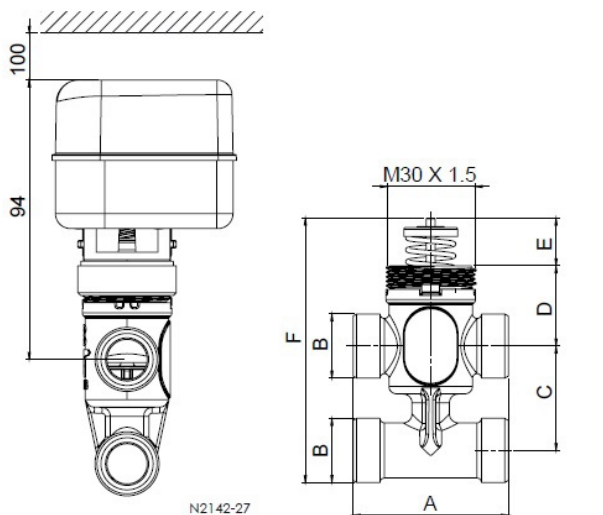
N2142-25

Valve	Actuator	a	b	c	d	e	f
VSXT09P VSXT10P VSXT11P VSXT12P VSXT13P- VSXT13	MVT203 MVT403 MVT503	52	G1/2"A	22,5	27	15,6	65
VSXT21- VSXT21P		56	G3/4"A	23,6	25,8		



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Valve	Actuator	a	b	c	d	e	f
VMXT09P VMXT10P VMXT11P VMXT12P VMXT13P- VMXT13	MVT203 MVT403 MVT503	52	G1/2"A	25	27	15,6	67,6
VMXT21- VMXT21P		56	G3/4"A	34	25,8		75,4



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Valve	Actuator	a	b	c	d	e	f
VTXT09P VTXT10P VTXT11P VTXT12P VTXT13P- VTXT13		52	G1/2"A	35	27		88,4
VTXT09P4 VTXT10P4 VTXT11P4 VTXT12P4 VTXT13P4 VTXT1P4	MVT203 MVT403 MVT503	56	G1/2"A	40	27	15,6	93,4
VTXT21- VTXT21P		56	G3/4"A	50	25,8		98,4

Valve	Actuator	a	b	c	d	e	f
VSXT24P VSXT26P VMXT24P VMXT26P VTXT24P VTXT26P	MVT203 MVT403 MVT503	56	G3/4" A	44	25,8	15,6	98,4

The performances stated in this sheet can be modified without any prior notice due to design improvements