

VHX Valve Sets with RAX Thermostatic Sensor for Designer Radiators & Bathroom Towel Rails

Application



Ordering

Quality

Description	Colour	Code no. Straight	Code no. Angle		
VIIV DUQuelue set with DAV recent sources	Chrome	013G4276	013G4279		
VHX-DOO valve set, with KAX footh sensor	RAL 9016	013G4278	013G4281		
VIUX MONO value act with DAV record concern	Chrome	013G4282	013G4285		
VITA-IVIONO VAIVE SEL, WITH RAX FOOM SENSOF	RAL 9016	013G4284	013G4287		



Data Sheet VHX Valve Sets with RAX Thermostatic Sensor

Compression Fittings

Description	Size	Code no. Nickel plated	Code no. Chrome plated
	10 mm	013G4110	013G4192
For steel and copper tubes	12 mm	013G4112	013G4193
	14 mm	013G4114	013G4194
	15 mm	013G4115	013G4195
	16 mm	013G4116	013G4196
For AluPex tubes	14 x 2 mm	013G4174	-
	16 x 2 mm	013G4176	013G4200
For Pex tubes	12 x 1.1 mm	013G4143	-
	12 x 2 mm	013G4142	-
	14 x 2 mm	013G4144	-
	15 x 2.5 mm	013G4147	013G4199
	16 x 2 mm	-	013G4198

Accessories

Product	Code no.
Adapter for electric heating element	013G4166
O-ring service set for VHX MONO angle valve and VHX DUO angle valve ¹⁾	013G4179
O-ring service set for VHX DUO straight valve	013G4180
O-ring service set for VHX MONO straight valve	013G4181

¹⁾ Complete O-ring replacement of VHX DUO angle valve requires 2 x 013G4179.

Technical data

Туре	Conne	k_v -values [m ³ /h] with RAX sensor at setting ¹⁾								(k _{vs})	
	Radiator	System	1	2	3	4	5	6	7	Ν	Ν
VHX-DUO	G½A	G½	0.12	0.15	0.20	0.25	0.30	0.36	0.42	0.49	0.56
VHX-MONO	G½A	G1⁄2	0.12	0.15	0.20	0.25	0.30	0.34	0.38	0.40	0.45

Max. working pressure: 10 bar Max. differential pressure²: 0,6 bar Test pressure: 16 bar Max. flow temperature: 120 ℃

¹⁾ The k_v -value indicates the water flow (Q) in m³/h at a pressure drop (Δp) across the value of 1 bar; $k_v = \frac{Q}{\sqrt{2}}$

 $\sqrt{\Delta p}$

At setting N the k_v -value is stated according to EN 215, at $X_p = 2K$ i.e. the valve is closed at 2°C higher room temperature. At lower settings the X_p value is reduced to 0.5K of the setting value 1. The k_{vs} -value states the flow Q at a maximum lift, i.e. at fully open valve at setting N.

²⁾ The maximum differential pressure specified is the maximum pressure at which the valves give satisfactory regulation. As with any device which imposes a pressure drop in the system, noise may occur under certain flow/pressure conditions. The differential pressure can be reduced by the use of the Danfoss differential pressure regulators.



VHX Valve Sets with RAX Thermostatic Sensor

Capacities

VHX-DUO (pre-setting)



VHX-MONO (pre-setting)







Data Sheet	VHX Valve Sets with RAX Thermo	sta	tic S	enso	r				
Temperature Setting	RAX thermostatic sensor								
			8	12	16	20	24	28	°C
	 0 = Positive shut off 爺 = Frost protection setting 	0	*	T	II	III		M	
Pre-setting	Danfoss pre-settable valve assemblies incorporate easy setting adjustment with clearly engraved setting markers scaled from 1 - 7 and N.								
	Setting values can be set quickly and precisely, without the need for tools, as follows: • Remove protective cap or sensor. • Turn Red ring to the desired setting value.			4		12	3 A A		
	The preset level can be selected in 0.5 increments between 1 and 7 (see chart for flow rates). At setting N the valve is fully open (flushing option).				N	25	5		
Installation	VHX-DUO Floor Connection			VHX	MONO	Floor Co	onnectio	'n	
	0 0			0	>	0			
						6	E	0	

Free connection (left or right). Radiator outlet always on thermostat side.

Free connection (left or right). Radiator outlet always on thermostat side.

VHX Valve Sets with RAX Thermostatic Sensor

Installation

VHX-DUO Wall connection



Free connection (left or right). Radiator outlet always on thermostat side.

VHX-MONO Wall Connection



Free connection (left or right). Radiator outlet always on thermostat side.



Mounted directly on the valve with an Allen key (enclosed in set)

Electric Heating Element Danfoss electric heating elements can be mounted in the radiator through the VHX-DUO angle valve.

Mounting of a standard heating element (nonDanfoss) through the valve requires use of the adapter 013G4166. If a heating element is to be used with other VHX valves, a standard heating element (non-Danfoss) has to be mounted directly in the radiator.

The heating element's wattage must be selected so that the wattage emitted on the heating element is always less than half of the nominal wattage the radiator can emit.

Examples: Mounting of an electric heating element





VHX Valve Sets with RAX Thermostatic Sensor

Dimensions



VHX-DUO floor connection



VHX-DUO wall connection



VHX-MONO floor connection



VHX-MONO wall connection

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