

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

Application



VHX floor connection

The VHX-sets are specially designed for towel rails and designer radiators with '50 mm bottom connection' and  $\frac{1}{2}$ " connection to the radiator.

The VHX-sets include a RAX thermostatic sensor for room temperature regulation.

The sets provides the perfect finishing touch for towel rails. The aesthetically pleasing and compact design allows the sensor to be mounted under-neath the towel rail, parallel with the wall.



VHX wall connection

VHX valves controls the return flow from the radiator and have several features:

- free choice of left/right mounting direction
- available in versions for floor or wall connection
- built-in shut-off function
- two different surfaces matching most radiators

#### Ordering

Description	Colour	Code no. Straight	Code no. Angle
VHX-DUO valve set, with RAX room sensor	Chrome	013G4276	013G4279
	RAL 9016	013G4278	013G4281
VHX-MONO valve set, with RAX room sensor	Chrome	013G4282	013G4285
	RAL 9016	013G4284	013G4287



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#### **Compression fittings**

Description	Size	Code no. Nickel plated	Code no. Chrome plat- ed	
	8 mm	013G4108	_	
	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	
	12 x 2 mm	013G4172	_	
For AluPex tubes	14 x 2 mm	013G4174	-	
	16 x 2 mm	013G4176	013G4200	
	12 x 1.1 mm	013G4143	013G4197	
	12 x 2 mm	013G4142	_	
For Pex tubes	14 x 2 mm	013G4144	-	
	15 x 2.5 mm	013G4147	013G4199	
	16 x 2 mm	013G4146	013G4198	

### Accessories

Product	Code no.
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

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

## **Technical Data**

Туре	Connection		k <sub>v</sub> -values [m <sup>3</sup> /h] with RAX sensor at setting <sup>1)</sup>							(k <sub>vs</sub> )	
	Rad.	Sys.	1	2	3	4	5	6	7	Ν	N
VHX-DUO	G½A	G1⁄2	0.12	0.15	0.20	0.25	0.30	0.36	0.42	0.49	0.56
VHX- MONO	G½A	G½	0.12	0.15	0.20	0.25	0.30	0.34	0.38	0.40	0.45

Max. work. pressure: 10 bar, max. diff. pressure<sup>2</sup>): 0,6 bar, test pressure 16 bar, max. flow temp.: 120 °C

<sup>1)</sup> The  $k_v$ -value indicates the water flow (Q) in m<sup>3</sup>/h at a pressure drop ( $\Delta p$ ) across the value of 1 bar;

 $k_v = \frac{Q}{\sqrt{\Delta p}}$ . At setting N the  $k_v$ -value is stated according to EN 215, at XP = 2K i.e. the value 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.

<sup>2)</sup> 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.



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## Capacities

#### VHX-DUO (RAX) (pre-setting)



## VHX-MONO (RAX) (pre-setting)





#### **Data Sheet** VHX Valve Sets with RAX Thermostatic Sensor for Designer Radiators & Bathroom Towel Rails RAX thermostatic sensor **Temperature Setting 0**= Positive shut off 8 12 16 20 24 28 °C \* 0 L Ш Ш ш Þ ✤ = Frost protection setting Presetting 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.

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).





### Installation





## Dimensions





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