Sensors

	RAX, thermostatic sensor element	**013G6170**	**013G6070**	**013G6171**
	RTX, return temperature limiter	**013G6190**	**013G6090**	**013G6191**

Set Packs

	Set: right-mounted RAX sensor, thermostat, valve and lockshield valve	**013G4003**	**013G4007**	**013G4009**
	Set: left-mounted RAX sensor, thermostat, valve and lockshield valve	**013G4004**	**013G4008**	**013G4010**
	Set: right-mounted RTX sensor, thermostat, valve and lockshield valve	**013G4132**	**013G4136**	**013G4138**
	Set with left-mounted RTX sensor, thermostat, valve and lockshield valve	**013G4133**	**013G4137**	**013G4139**

Technical Data

Type	Design	Connection		k_v-values [m^3/h] with RAX sensor at setting[1)]								
		Rad.	Sys.	1	2	3	4	5	6	7	N	N (k_{vs})
RA-URX	Left mounted angle valve Right mounted angle valve	R ½	R ½	0.03	0.06	0.13	0.17	0.23	0.27	0.29	0.34	0.44

Type	Design	Connection		k_v-values [m^3/h] with RAX sensor at setting[1)]						
		Rad.	Sys.	0.25	0.50	0.75	1	1.5	2	k_{vs}
RLV-X	Left mounted angle valve Right mounted angle valve	R ½	R ½	0.18	0.36	0.47	0.52	0.58	0.58	0.60

Max. work. pressure: 10 bar, max. diff. pressure[2)]: 0,6 bar, test pressure 16 bar, max. flow temp.: 120 °C

1) *The k_v-value indicates the water flow (Q) in m^3/h at a pressure drop (Δp) across the valve of 1 bar;* $k_v = \frac{Q}{\sqrt{\Delta p}}$. *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.*

Fittings, Spare Parts and Accessories

Compression fittings	Code no.	Compression fittings	Code no.
Steel/copper, 8 mm	013G4108	ALUPEX, 12 x 2 mm	013G4172
Steel/copper, 10 mm	013G4110	ALUPEX, 14 x 2 mm	013G4174
Steel/copper, 12 mm	013G4112	ALUPEX, 16 x 2 mm	013G4176
Steel/copper, 14 mm	013G4114	PEX, 12 x 1.1 mm	013G4143
Steel/copper, 15 mm	013G4115	PEX, 12 x 2 mm	013G4142
Steel/copper, 16 mm	013G4116	PEX, 14 x 2 mm	013G4144
		PEX, 15 x 2.5 mm	013G4147
		PEX, 16 x 2 mm	013G4146

Spare parts	Code no.
Gland seal for RA-URX valve with RAX sensor	**013G0290**

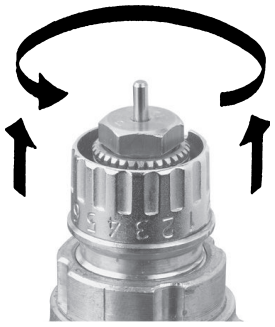
Accessories	Code no.
Drain and fill tap	**003L0152**

Presetting

Danfoss pre-settable valve bodies incorporate easy setting adjustment rings 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 element
- Lift setting ring
- Turn anti-clockwise to the desired engraved setting value
- Allow setting ring to spring back into position

The preset level can be selected in 0.5 increments between 1 and 7 (see chart on page 3 for flow rates).
At setting N the valve is fully open (flushing option).



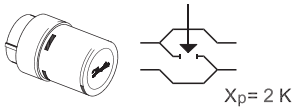
Temperature Setting

RAX

	10	14	18	22	26	30	°C
0	**✻**	**I**	**II**	**III**	**IIII**	**>I**	
	8	12	16	20	24	28	°C

✻= *Frost protection*

RTX



0	**I<**	**1**	**2**	**3**	**4**	**>I**
10	20	30	40	50	60	°C

Closing temperature

Installation

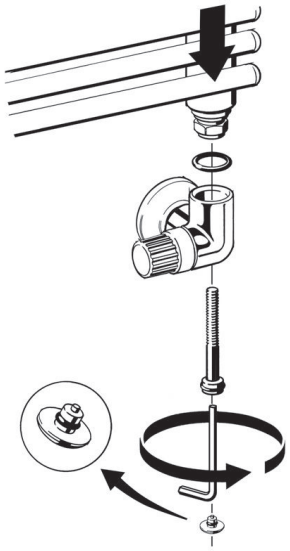
Valve and lockshield valve are matching in designs.

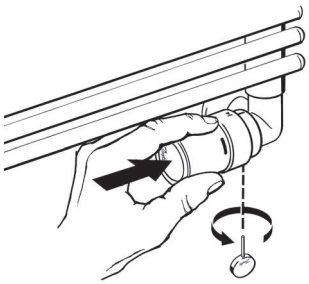
The self-sealing gland is mounted in radiator inlet and outlet using a 17 mm hexagonal key.

The yellow valve cap can temporarily be used to open and shut the valve.

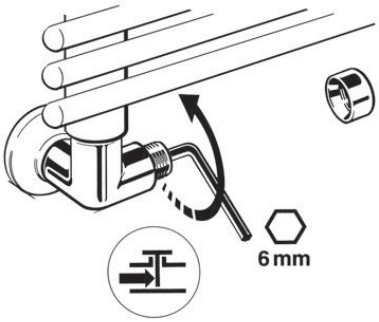
The lockshield valve features shut-off and draining facility.

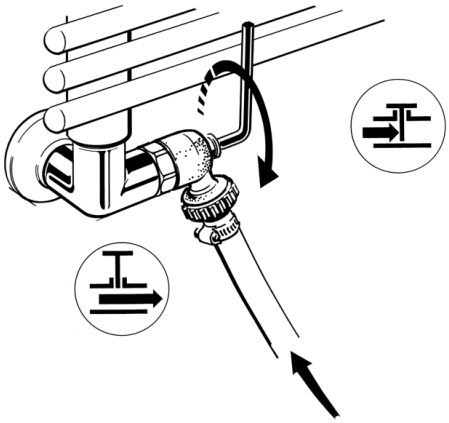
All O-rings are of the EPDM-type, which means no mineral oils or grease are to be used.



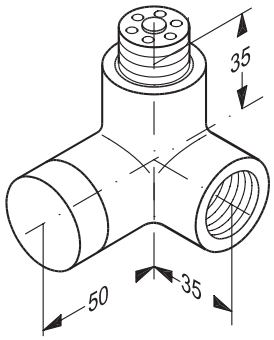


Shut-off, Filling and Draining

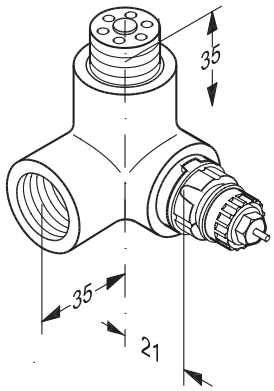




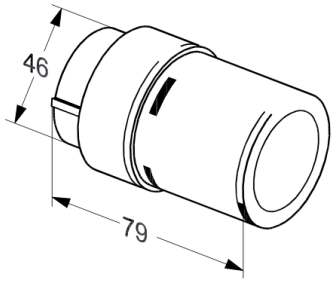
Dimensions



RLV-X lockshield valve



RA-URX return valve



RAX and RTX thermostatic sensors