

Data Sheet

Chrome plated radiator valves type RA-NCX and lockshield valves type RLV-CX

Application





RA-NCX and RLV-CX is a series of chrome plated

radiator valves and lockshield valves, especially

designed for use with design radiators. A new

radiator without the need for sealing tape or

RA-NCX valve bodies are equipped with a k_v

limiting device for pre-setting of max. water flow.

RA-NCX are supplied with a protective cap and adjusting screw, which can be used for manual

regulation during the construction phase. The

protective cap must not be used as a manual

The pressure pin of the gland seal is made of

lubricated O-ring. The complete gland seal can be replaced without draining down the system.

chrominium steel and works in a lifetime

tailpiece with an O-ring seal ensures an aesthetically appealing connection to the

RA-NCX straight







RA-NCX angle

compound.

shut off device.

RA-NCX left angle

RLV-CX straight **RLV-CX** angle

All types of thermostatic sensors in the Danfoss RA 2000 series and RAX design series can be used with RA-NCX.

Compression fittings are available in chrome finish.

RLV-CX lockshield valves enables each radiator to be shut off individually to allow trouble-free maintenance or repair without affecting other radiators in the system.

Max. water flow through RLV-CX is 2.5 m3/h. Factory setting is fully open valve.

In order to avoid deposition and corrosion the composition of the hot system water must be in accordance to the VDI 2035 guide line (Verein Deutscher Ingenieure).

Ordering and Data

RA-NCX radiator valve with integrated pre-setting

Туре	Size	Series	Con	nection	Code no.	
	5120	Series	Inlet	Outlet	Code no.	
Angle		D			013G4237	
Straight	DN 15	D			013G4238	
Angle right			R _p ½	R 1⁄2	013G4239	
Angle left			Np 72	n 72	013G4240	
Angle	F			013G4247		
Straight				013G4248		



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	Pre-setting												
Code no.	k_v -max ¹⁾ (m ³ /h at $\Delta p = 1$ bar)												
	1 2 3 4 5 6 7 N												
013G4237 013G4238 013G4239 013G4240 013G4247 013G4248	0.04 (0.04)	0.09 (0.09)	0.16 (0.16)	0.25 (0.24)	0.36 (0.31)	0.43 (0.37)	0.52 (0.42)	0.73 (0.53)	0.90				

¹⁾ k_v-values are stated for RA-NCX in connection with RA2000 sensors (RAX sensors). The k_v-value

indicates the water flow (Q) in m³/h at a pressure drop (Δp) across the value of 1 bar; $K_{\nu} = Q$: $\sqrt{\Delta p}$

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.

 $^{2)}$ The k_{vs}-value states the flow Q at a maximum lift, i.e. at fully open valve at setting N.

RLV-CX lockshield valve

Type Size	Sizo	Conr	nection	Flo	Code no.									
	JIZE	Inlet	Outlet	1⁄4	1⁄2	1	1½	2	21⁄2	3	31⁄2	4	k _{vs}	Code no.
Angle	DN 15	R ½	Rp ½	0.2	0.4	0.65	1.0	1.3	1.7	1.9	2.1	2.3	25	003L0273
Straight	DN 15	n 72	кр 72	0.2	0.4	0.05	1.0	1.5	1.7	1.9	2.1	2.5	2.5	003L0274

Test pressure:

16 bar

Max working pressure: Max dif 10 bar 0.6 bar

Max differential pressure:

Max working temperature: 120°C

Accessories

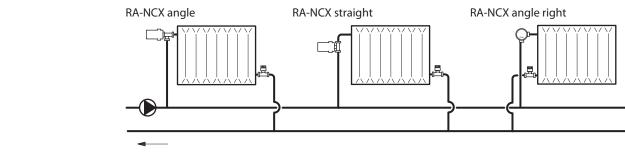
Product	Code no.
Gland seal for RA-NCX (10 pcs.)	013G0290
Drain tap with 3/4" hose nozzle	003L0152
Brass handwheel - temporarily replacement for the thermostat when the radiator is drained	013G3300
Chrome compression fitting for 10 mm steel and copper tubes (10 pcs.)	013G4192
Chrome compression fitting for 12 mm steel and copper tubes (10 pcs.)	013G4193
Chrome compression fitting for 14 mm steel and copper tubes (10 pcs.)	013G4194
Chrome compression fitting for 15 mm steel and copper tubes (10 pcs.)	013G4195
Chrome compression fitting for 16 mm steel and copper tubes (10 pcs.)	013G4196
Chrome compression fitting for 16 x 2.5 mm PEX tubes (10 pcs.)	013G4198
Chrome compression fitting for 15 x 2.5 mm PEX tubes (10 pcs.)	013G4199
Chrome compression fitting for 16 x 2 mm AluPEX tubes (10 pcs.)	013G4200
O-rings for self sealing tailpiece (5 pcs)	013G4149



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Principle



Setting

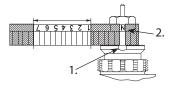
RA-NCX

The presetting values can be adjusted easily and accurately without the use of tools:

- Find the reference mark
- Lift and turn the setting ring until the desired presetting aligns with the reference mark







- 1. Reference mark
- 2. Factory setting / one-pipe system

RLV-CX

Setting of max. water flow:

- Close the valve by means of a 6 mm Allen key
- Regulate the water flow by opening the valve

The capacity diagrammes on page 3 show the water flow at 1/4 - 4 turns and for fully open valve (k_{vs}).

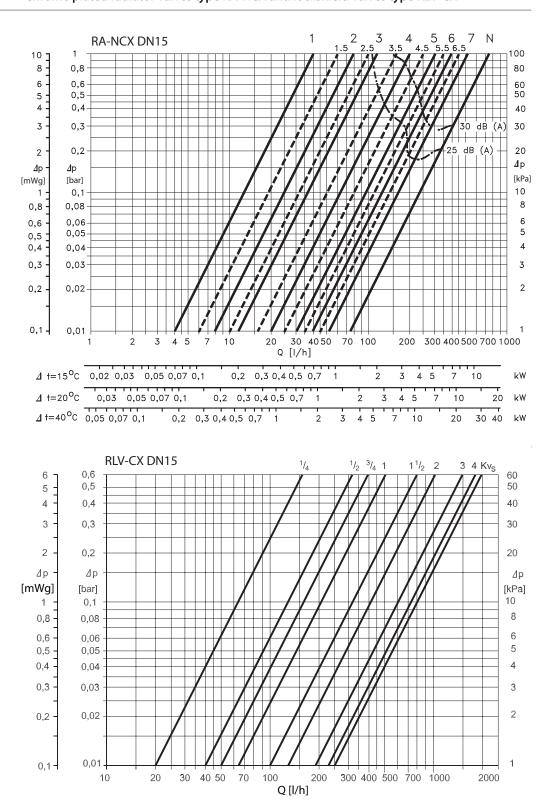






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Capacity





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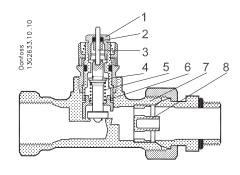
Design

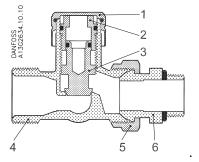
RA-NCX

- 1. Gland seal
- 2. O-Ring
- 3. Pressure pin
- 4. Seal
- 5. Regulation spring
- 6. Setting dial
- 7. Valve body
- 8. k_v-nozzle

RLV-CX

- 1. Cover
- 2. Guide sleeve
- 3. Shut-off cone
- 4. Valve body
- 5. Union nut
- 6. Tailpiece





Materials in contact with water, RA-NCX

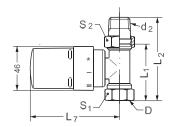
Valve body and other metal parts	Ms 58
O-ring	EPDM
kv-limiter	PPS
Valve cone	NBR
Pressure pin and valve spring	Chrome steel
Nozzle	PP

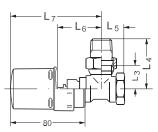
Materials in contact with water, RLV-CX

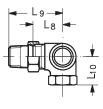
Valve body and other metal parts	Ms 58
O-ring	EPDM

Dimensions

RA-NXC







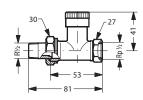
Туре	D	d ₂	L ₁	L ₂	L ₃	L ₄	L ₅	L6	L ₇ *	L ₈	L9	L ₁₀	S ₁	S ₂
RA-NCX, series D			67	95	30	58	26	47	90				27	30
RA-NCX, series F	RP 1/2	R 1⁄2	55	82	26	53	23	47	90				27	30
RA-NCX, left/right angle										30	58	33	27	30

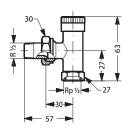


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* L_7 is stated with RAX sensor. If RA2000 is used, L_7 increases by 6 mm.

RLV-CX







<u>Danfoss</u>



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