

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

Application











RA-NCX angle

RA-NCX straight

RA-NCX left angle

RLV-CX straigh

RLV-CX angle

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 tailpiece with an O-ring seal ensures an aesthetically appealing connection to the radiator without the need for sealing tape or compound.

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 shut off device.

The pressure pin of the gland seal is made of chrominium steel and works in a lifetime lubricated O-ring. The complete gland seal can be replaced without draining down the system.

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

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.	
	Size	Series	Inlet	Outlet	Code no.	
Angle	- DN 15 -	D			013G4237	
Straight		D	R _p ½		013G4238	
Angle right				R ½	013G4239	
Angle left			η η _{р 72}	N 72	013G4240	
Angle		F			013G4247	
Straight		F			013G4248	



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	Pre-setting 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				

 $^{^{1)}\,}k_{v}\text{-values}$ are stated for RA-NCX in connection with RA2000 sensors (RAX sensors). The $k_{v}\text{-value}$

indicates the water flow (Q) in m³/h at a pressure drop (Δp) across the valve 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. \square

RLV-CX lockshield valve

Туре	Size	Conr	nection	Flow limitation: k _v -values (m ³ /h) for number of turns										Code no.	
Type Size	Inlet	Outlet	1/4	1/2	1	11/2	2	21/2	3	31/2	4	k _{vs}	Code no.		
Angle	DN 15	R 1/2	Rp 1/2	0.2	0.4	0.65	1.0	1.3	1.7	1.9	2.1	2.3	2.5	003L0273	
Straight	כו ווט	N 72	hp //2	0.2	0.4	0.03	1.0	1.5	1./	1.9	2.1	2.3	2.3	003L0274	

Max working pressure: 10 bar

Max differential pressure: 0.6 bar

Test pressure: 16 bar *Max working temperature:* 120°C

Accessories

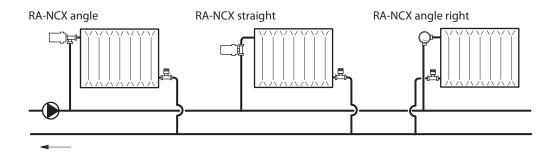
Product	Code no.
Gland seal for RA-NCX (10 pcs.)	013G0290
Drain tap with 3/4" hose nozzle	003L0152
Brass handwheel - temporarily replacement for the thermostat when the radiator is drained	013G3300
Chrome compression fitting for 10 mm steel and copper tubes (10 pcs.)	013G4192
Chrome compression fitting 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

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



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Principle



Setting

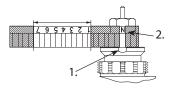
RA-NCX

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



Presetting range



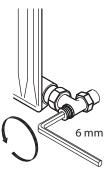
- 1. Reference mark
- 2. Factory setting / one-pipe system

RLV-CX

Setting of max. water flow:

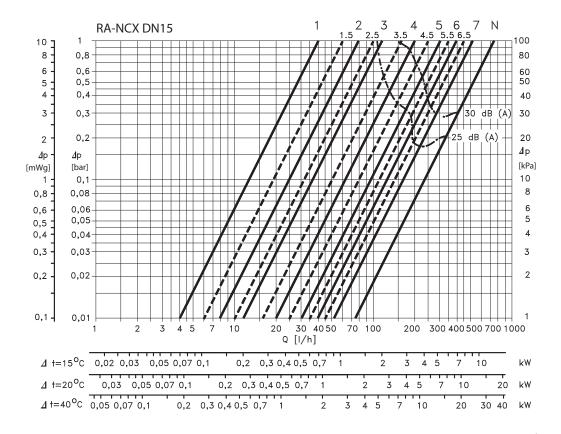
- Close the valve by means of a 6 mm Allen key
- Regulate the water flow by opening the valve

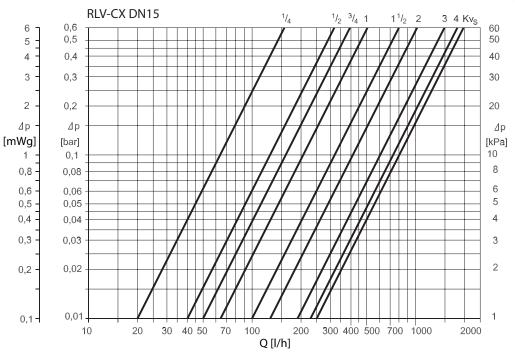
The capacity diagrammes on page 3 show the water flow at 1/4 - 4 turns and for fully open valve (k_{vs}).





Capacity



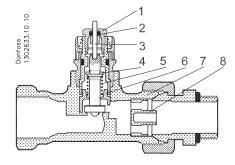


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Design

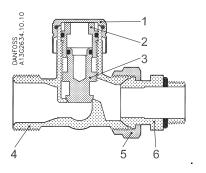
RA-NCX

- 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

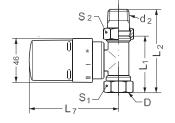
Valve body and other metal parts	Ms 58
O-ring	EPDM
kv-limiter	PPS
Valve cone	NBR
Pressure pin and valve spring	Chrome steel
Nozzle	PP

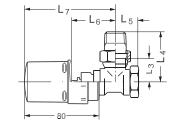
Materials in contact with water, RLV-CX

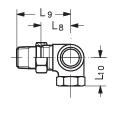
Valve body and other metal parts	Ms 58
O-ring	EPDM

Dimensions

RA-NXC







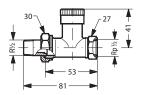
Туре	D	d ₂	L ₁	L ₂	L ₃	L ₄	L ₅	L6	L ₇ *	L ₈	L ₉	L ₁₀	S ₁	S ₂
RA-NCX, series D			67	95	30	58	26	47	90				27	30
RA-NCX, series F	RP 1/2	R 1/2	55	82	26	53	23	47	90				27	30
RA-NCX, left/right angle										30	58	33	27	30

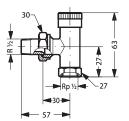


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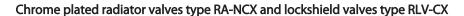
* L_7 is stated with RAX sensor. If RA2000 is used, L_7 increases by 6 mm.

RLV-CX











Danfoss A/S Heating Solutions Haarupvaenget 11 8600 Silkeborg Denmark Phone:+45 7488 8000 Fax: +45 7488 8100

Data Sheet

Email: heating. solutions@danfoss.com

www.heating.danfoss.com

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