

Data Sheet

Lockshield Valve Type RLV - with Facility for Connection to Drain Tap

Application







RLV straight

RLV angle

Drain tap

By means of a RLV lockshield valve every radiator can be shut off individually to allow trouble-free maintenance or repair without affecting other radiators in the system.

RLV lockshield valves are available in angle versions as well as straight versions. Finish: Nickel plated.

RLV lockshield valves can be preset to limit the max. water flow within the following setting area:

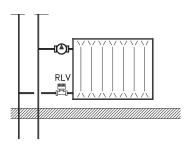
RLV 10: $k_{vs} = 1.8 \text{ m}^3/\text{h}$ RLV 15: $k_{vs} = 2.5 \text{ m}^3/\text{h}$ RLV 20: $k_{vs} = 3.0 \text{ m}^3/\text{h}$ Factory setting is fully open valve. Dimensions correspond to DIN 3842-1.

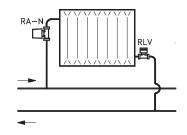
Accessories for RLV:

- a drain tap for draining or filling of the radiator
- a brass handwheel, used when radiators with RLV lockshield valves are removed.

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).

Principle





Data and Ordering

Туре	Conne	ctions 7-1	Flow limitation: k _v -values (m³/h) for number of turns										Code no.				
	Syst.	Rad.	0.25	0.5	0.75	1.0	1.5	2	2.5	3.0	3.5	4.0	k _{vs}				
DN 10 angle	3/8	3/8	0.15	0.35	0.45	0.6	0.9	1.2	1.5	1.6	1.7	1.8	1.9	003L0141			
DN 10 straight	3/0	3/6	0.13	0.55	0.43	0.0	0.9	1.2	1.5	1.0	1./	1.0	1.9	003L0142			
DN 15 angle	1/2	1/2	1/2	1/2	0.2	0.4	0.5	0.65	1.0	1.3	1.7	1.9	2.1	2.3	2.5	003L0143	
DN 15 straight			1/2	0.2	0.4	0.5	0.03	1.0	1.5	1./	1.9	۷.۱	2.5	2.5	003L0144		
DN 20 angle	3/4	/4 3/4	/4 0.2	0.4	0.6	0.8	1.3	1.8	2.2	2.4	2.6	2.8	3	003L0145			
DN 20 straight		3/4	3/4	3/4	3/4	3/4	0.2	0.4	0.0	0.0	1.3	1.0	2.2	2.4	2.0	2.0	3



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Max. working pressure: 10 bar. Test pressure: 16 bar.

Max. water temperature: 120 °C.

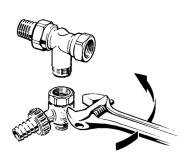
RLV can be connected to PEX, AluPEX, steel or copper tubings by Danfoss compression fittings.

Accessories

Product		Code no.
	Drain tap with 3/4" hose nozzle	003L0152
	Brass handwheel - temporarily replacement for the thermostat when the radiator is drained	013G3300

Mounting

Setting



RLV

The RLV lockshield valve is intended for mounting on the outlet of the radiator. To enable subsequent draining of the radiator water, the lockshield valve should be mounted with its cover towards the front.

Drain tap

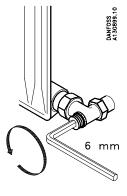
For mounting and operation of the drain tap, the following procedure is recommended:

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}).



- Shut off the radiator inlet valve. As a safety precaution the thermostatic sensor should be replaced by a Danfoss manual shut off handle, code no. 013G3300.
- 2. Remove the cover and shut off the valve by means of a 6 mm Allen key.
- 3. Mount the drain tap and align the drain branch, which can revolve in any direction.
- 4. Open the valve for draining.

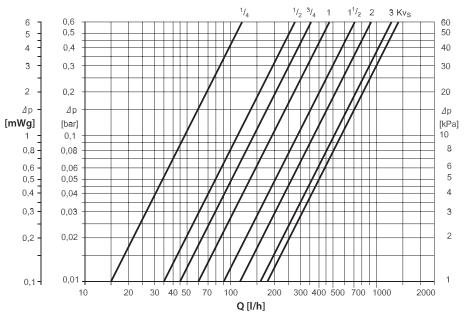


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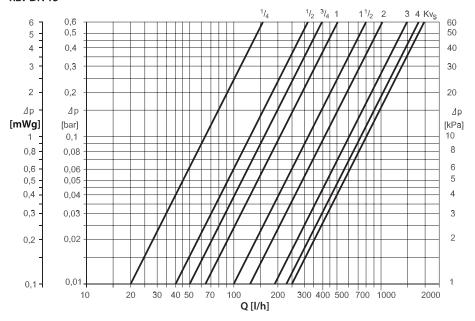


Capacities



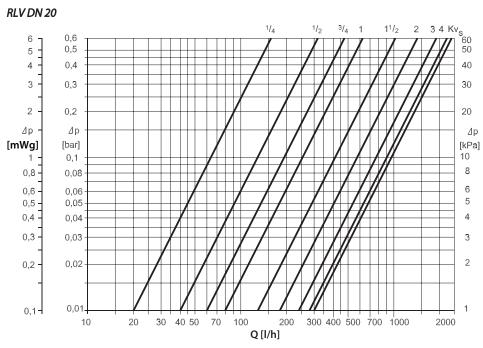


RLV DN 15

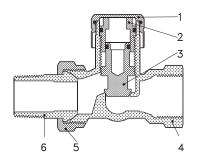








Construction

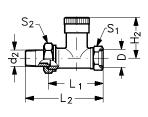


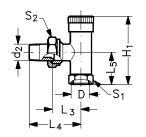
- 1. Cover
- 2. Guide sleeve
- 3. Shut-off cone
- 4. Valve body
- 5. Union nut
- 6. Nipple

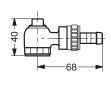
Materials in contact with water

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

Dimensions







Туре	D	d ₂	H ₁	H ₂	L ₁	L ₂	L ₃	L ₄	L ₅	S ₁	S ₂
RLV 10	$R_{p}^{3}/_{8}$	R 3/8	57	40	51	75	27	51	23	22	27
RLV 15	$R_p^{-1}/_2$	R 1/2	63	41	53	80	30	57	27	27	30
RLV 20	R _p ³ / ₄	R 3/4	63	40	61	92	34	65	30	32	37









Data Sheet









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

Email: heating. solutions@danfoss.com

www.heating.danfoss.com

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