Data sheet

Lockshield valve type RLV with facility for connection to drain tap

Application

RLV Straight *RLV Angle* *Drain tap*

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

The lockshield valve, type RLV, is available in an angle version as well as a straight version. Finish: plain brass or nickel plated.

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

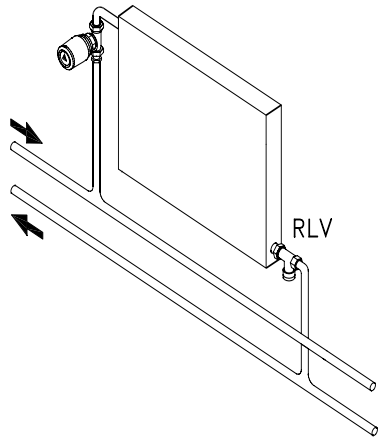
RLV 10: k_v = 1.8 m³/h
RLV 15: k_v = 2.5 m³/h
RLV 20: k_v = 3.0 m³/h

Factory setting is fully open valve. Dimensions correspond to DIN 3842-1.

Accessories for RLV:
- a drain tap for draining or filling the water in the raditator,
- a brass handwheel: a tool which is used when radiators with RLV lockshield valves are removed.

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

System



Ordering and data

Type	Code no. nickel plated	Code no. plain brass	Connections ISO 7-1		Flow limitation: k_v-values (m³/h) for no. of turns											Max. working press.	Test press.	Max. water temp.
			Syst.	Rad.	0.25	0.5	0.75	1	1.5	2	2.5	3	3.5	4	kvs			
DN 10 angle	**003L0141**	**003L0131**	3/8	3/8	0.15	0.35	0.45	0.6	0.9	1.2	1.5	1.6	1.7	1.8	1.8	10	16	120
DN 10 straight	**003L0142**	**003L0132**																
DN 15 angle	**003L0143**	**003L0133**	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			
DN 15 straight	**003L0144**	**003L0134**																
DN 20 angle	**003L0145**	**003L0135**	3/4	3/4	0.2	0.4	0.6	0.8	1.3	1.8	2.2	2.4	2.6	2.8	3.0			
DN 20 straight	**003L0146**	**003L0136**																

[1] RLV can be connected to PEX, Alupex, steel or copper tubings by Danfoss compression fittings.

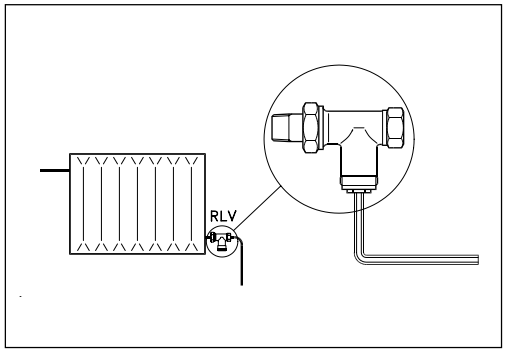
Accessories

Product		Code no.
	Drain tap with 3/4“ hose nozzle	**003L0152**
	Brass handwheel: Replaces the thermostat temporarily when the radiator is drained	**013G3300**

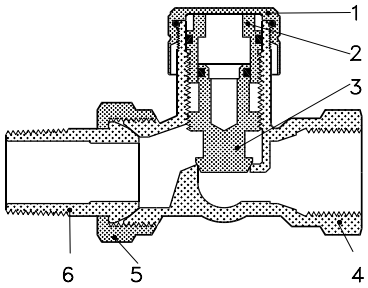
Setting and regulation

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 the opposite page show the water flow at ¼ - 4 turns and for fully open valve (k_{vs}).



Construction

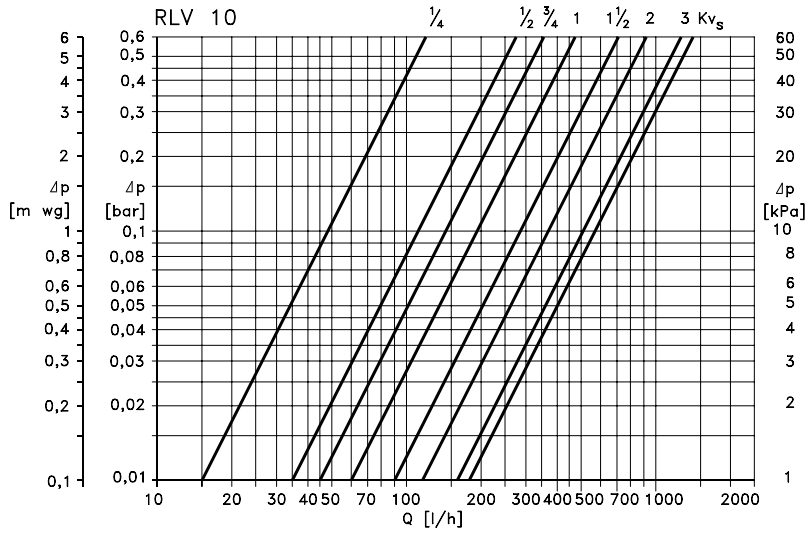


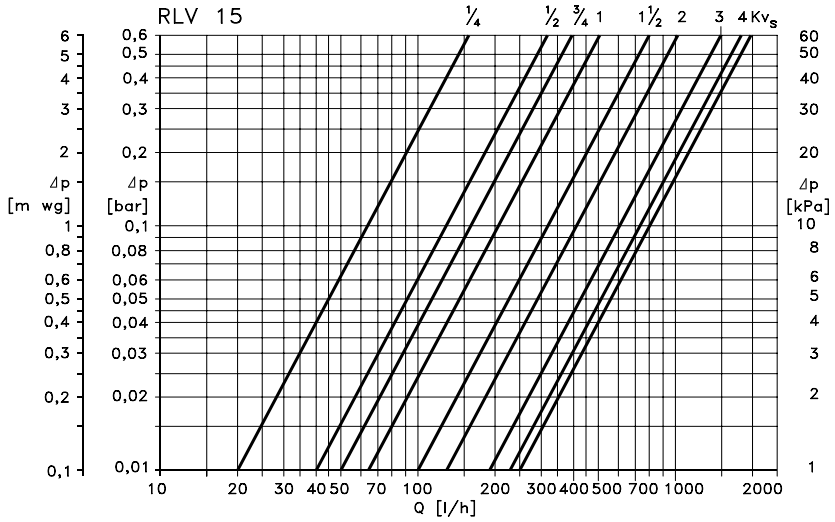
1. Cover
2. Guide sleeve
3. Shut-off cone
4. Valve body
5. Union nut
6. Nipple

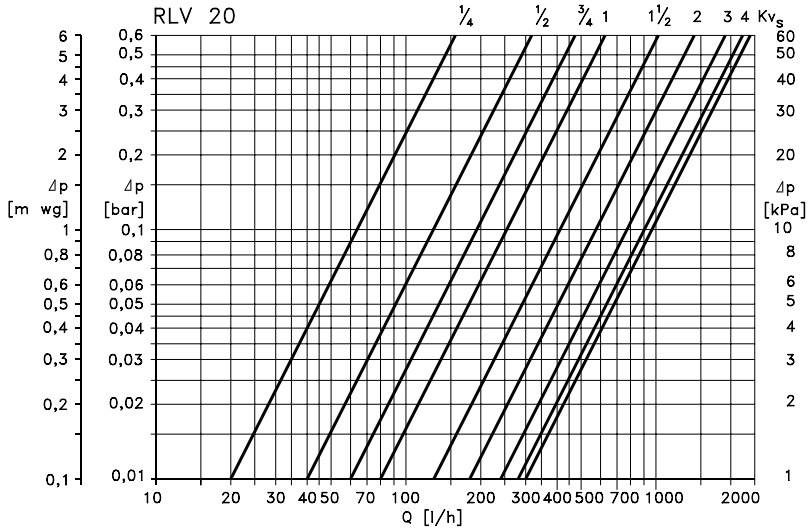
Material in contact with water

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

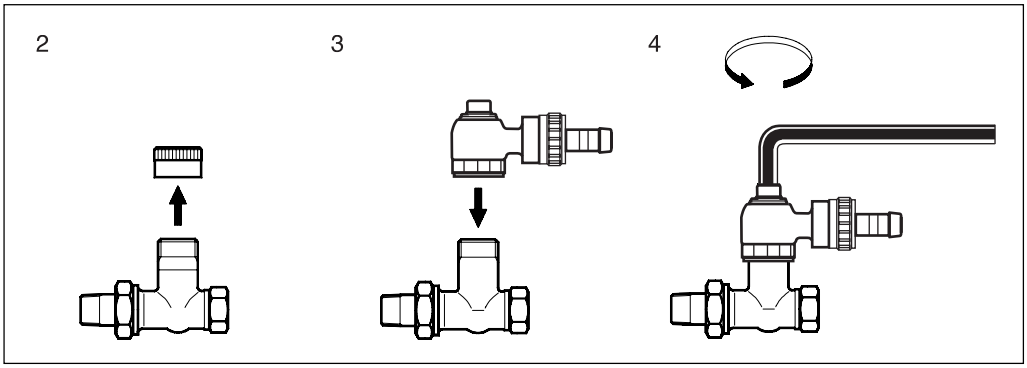
Capacity


RLV 10
¼ ½ ¾ 1 1½ 2 3 Kvs
Δp [m wg]
Δp [bar]
Δp [kPa]
Q [l/h]


RLV 15
¼ ½ ¾ 1 1½ 2 3 4 Kvs
Δp [m wg]
Δp [bar]
Δp [kPa]
Q [l/h]


RLV 20
¼ ½ ¾ 1 1½ 2 3 4 Kvs
Δp [m wg]
Δp [bar]
Δp [kPa]
Q [l/h]

Mounting

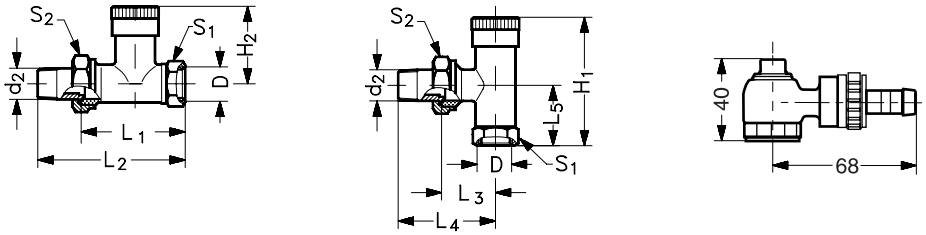


RLV
RLV is intended for mounting on the outlet of the radiator. To enable subsequent draining of the radiator water, the lockshield valve should be mounted with its cover towards the front.

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

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

Dimensions



Type	D	d_2	H_1	H_2	L_1	L_2	L_3	L_4	L_5	S_1	S_2
RLV 10	R_p3/8	R 3/8	57	40	51	75	27	51	23	22	27
RLV 15	R_p1/2	R 1/2	63	41	53	80	30	57	27	27	30
RLV 20	R_p3/4	R 3/4	63	40	61	92	34	65	30	32	37

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