Data Sheet

Lockshield Valve Type RLV-S for Individual Shut-Off

Application

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

RLV-S is intended for mounting on the outlet of the radiator.

RLV-S lockshield valves are available in angle and straight versions with internal or external (½") system connection.

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

RLV-S 10: k_{vs} = 1.5 m³/h

RLV-S 15/20: k_{vs} = 2.2 m³/h

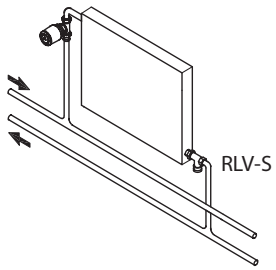
Factory setting is fully open valve. Dimensions correspond to DIN 3842-1.

Accessories for RLV:

- Brass handwheel: a tool which replaces the thermostat when radiators with RLV-S 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).

System



Data and Ordering

Type	Connections ISO 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	G 3/8	R 3/8	0.15	0.30	0.45	0.55	0.75	0.90	1.00	1.15	1.25	1.35	1.50	003L0121
DN 10 straight														003L0122
DN 15 angle	G 1/2	R 1/2	0.20	0.40	0.60	0.80	1.05	1.25	1.40	1.55	1.70	1.80	2.20	003L0123
DN 15 straight														003L0124
DN 20 angle	G 3/4	R 3/4												003L0125
DN 20 straight														003L0126
DN 15 angle	G 3/4 A	R 1/2												003L0353
DN 15 straight														003L0354

Max. working pressure: 10 bar, test pressure: 16 bar, max. water temperature: 120 °C.

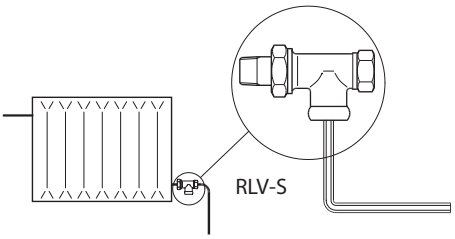
Accessory for RLV-S

Product	Code no.
Brass handwheel for temporarily replacement af the sensor	013G3300

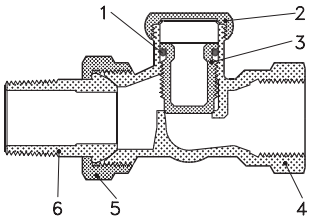
Setting and Regulation

Setting of max. water flow:

- Close the valve by means of an Allen key DN 10 = 6 mm; DN 15/20 = 8 mm.
- 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 (kvs).



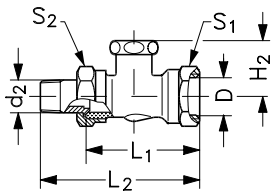
Design

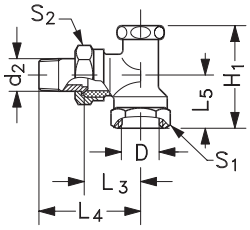


1. O-ring
2. Cover cap
3. Shut-off spindle
4. Valve body
5. Union nut
6. Nipple

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

Dimensions

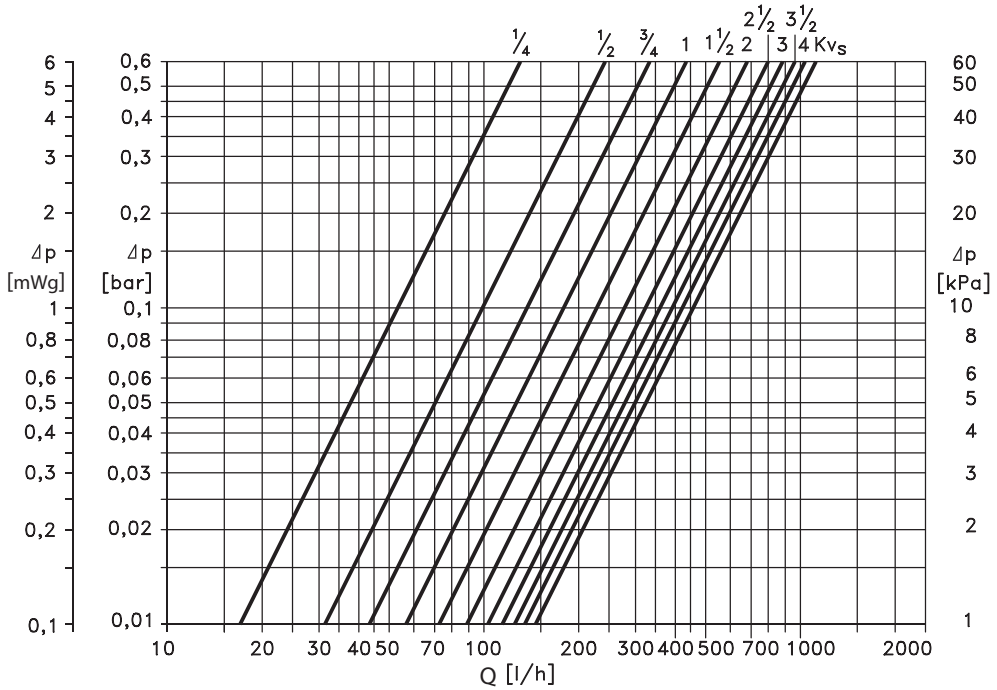




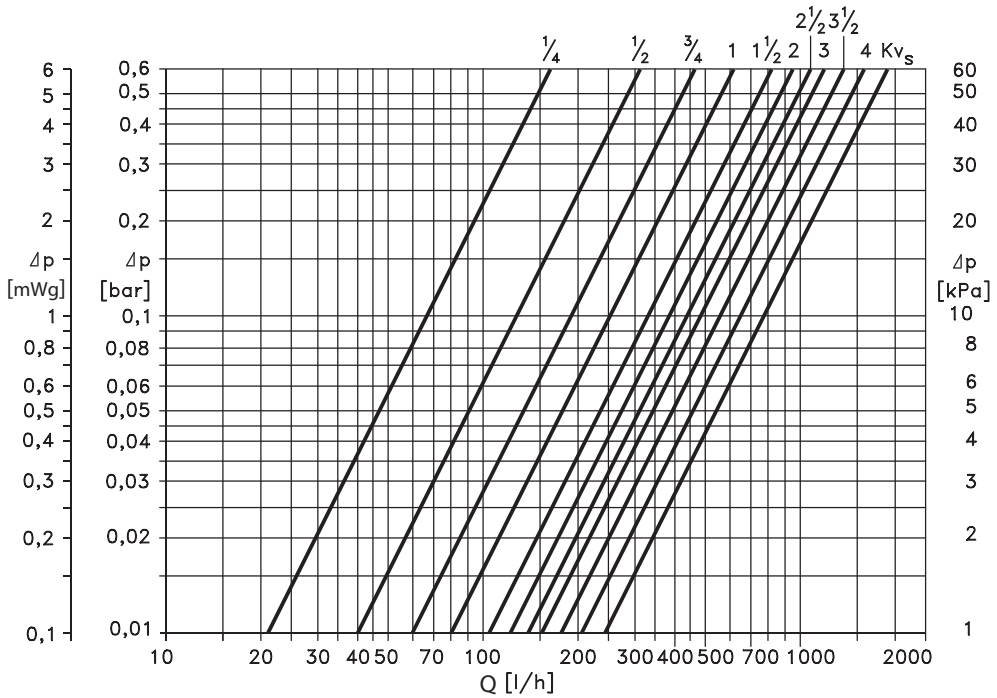
Type	D	d_2	H_1	H_2	L_1	L_2	L_3	L_4	L_5	S_1	S_2
RLV-S 10	G $^3/_8$	R $^3/_8$	42	26	51	75	27	51	23	22	27
RLV-S 15	G $^1/_2$	R $^1/_2$	52	28	53	80	30	57	27	27	30
RLV-S 20	G $^3/_4$	R $^3/_4$	52	28	61	92	34	65	30	32	37

Capacities

RLV-S 10



RLV-S 15/20



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