

Function

Series 30 valves offer all the quality and reliability of Made in Italy products. The entire range is finished with chrome-plating, which guarantees a thicker coverage and, as a consequence, a better resistance to ageing and corrosion, not to mention a superior aesthetic appearance. Thermostatic valves allow to preset the flow rate.



Technical data

Max. working pressure:	10 bar
Max. differential pressure:	1 bar
Max. working temperature:	120 °C
Working fluids:	Water in compliance with UNI 8065:1989

Materials

Body:	CW 617 N – DW UNI-EN 12165:2016
Obturator:	CW 614 N – DW UNI-EN 12164:2016
Gaskets:	Peroxide cured EPDM
Knob:	Chrome-plated/ RAL9016 white ABS

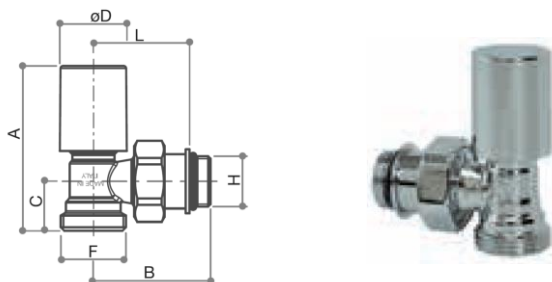
Surface treatment

Chrome-plating

Dimensional Drawings

RS 159/A

Manual angle valve.
Copper and plastic pipe G3/4 Eurokonus

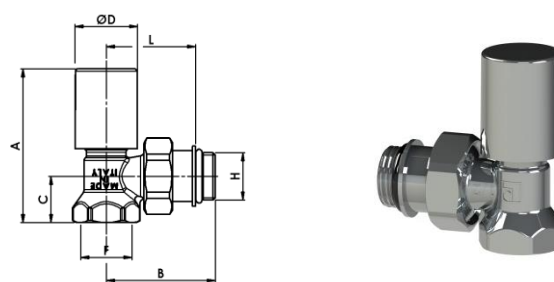


Code	Size	A	B	C	D	E
20842703	DN15 1/2	67	47	20	27	-
20842703CB	DN15 1/2	67	47	20	27	-

Code	Size	F	G	H	L	M
20842703	DN15 1/2	G3/4 Ek	-	G1/2	39	-
20842703CB	DN15 1/2	G3/4 Ek	-	G1/2	39	-

RS 146

Manual angle valve.
Connection for iron pipe.

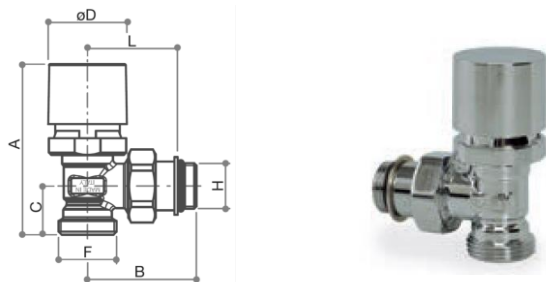


Code	Size	A	B	C	D	E
20022103	DN15 1/2	67	47	20	27	-
20022103CB	DN15 1/2	67	47	20	27	-

Code	Size	F	G	H	L	M
20022103	DN15 1/2	G1/2	-	G1/2	39	-
20022103CB	DN15 1/2	G1/2	-	G1/2	39	-

RS 2509/A

Single adjustment straight radiator valve with O-ring.
Copper and plastic pipe G3/4 Eurokonus

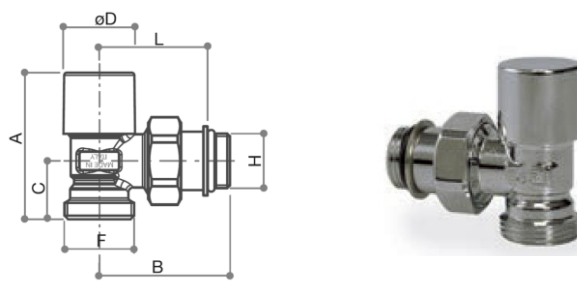


Code	Size	A	B	C	D	E
20722703	DN15 1/2	77	49	22	36	-
20722703CB	DN15 1/2	77	49	22	36	-

Code	Size	F	G	H	L	M
20722703	DN15 1/2	G3/4 Ek	-	G1/2	41	-
20722703CB	DN15 1/2	G3/4 Ek	-	G1/2	41	-

DS 89/A

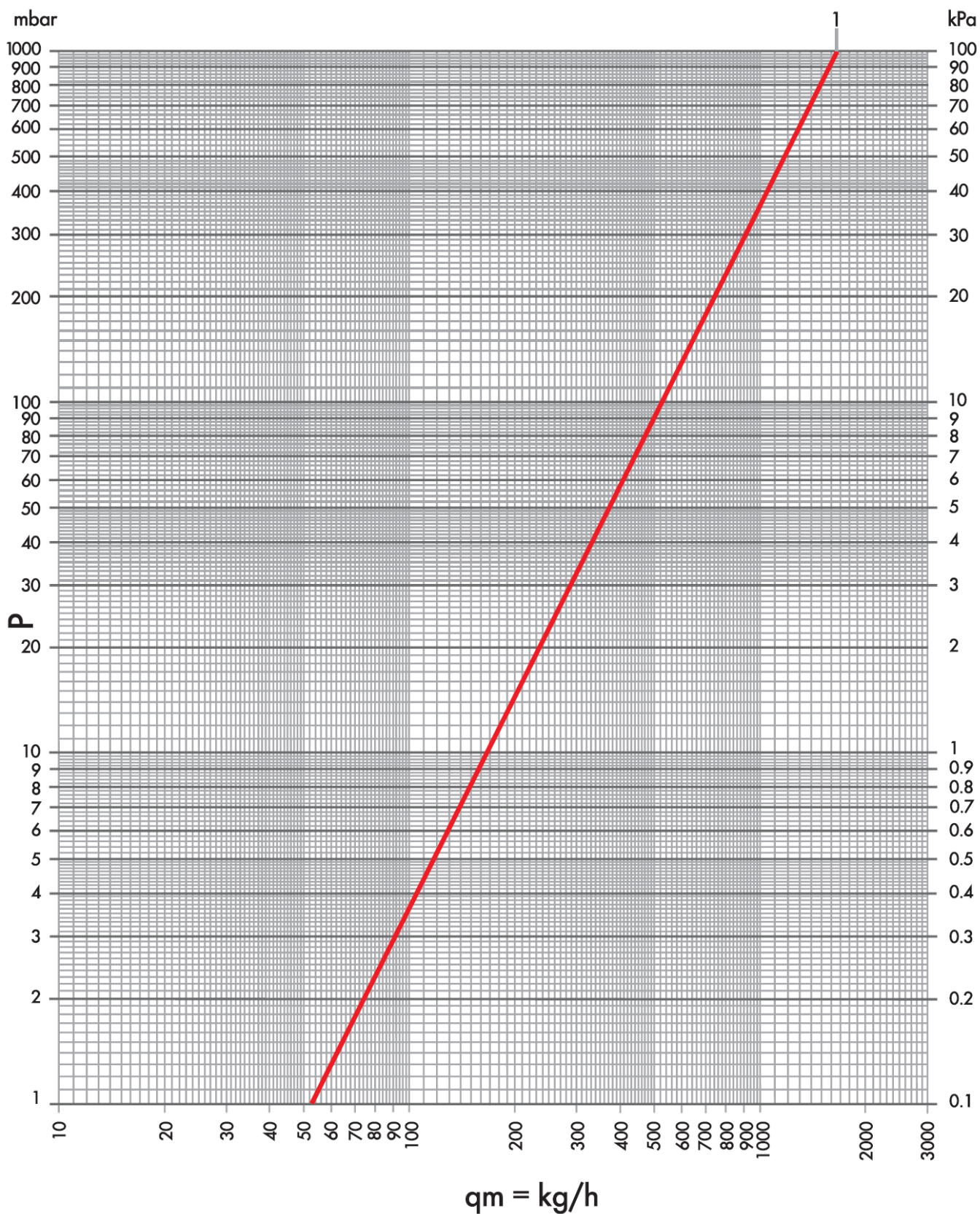
Angle regulating lockshield.
Copper and plastic pipe G3/4 Eurokonus



Code	Size	A	B	C	D	E
20162703	DN15 1/2	55	49	27	27	-
20162703CB	DN15 1/2	55	49	27	27	-

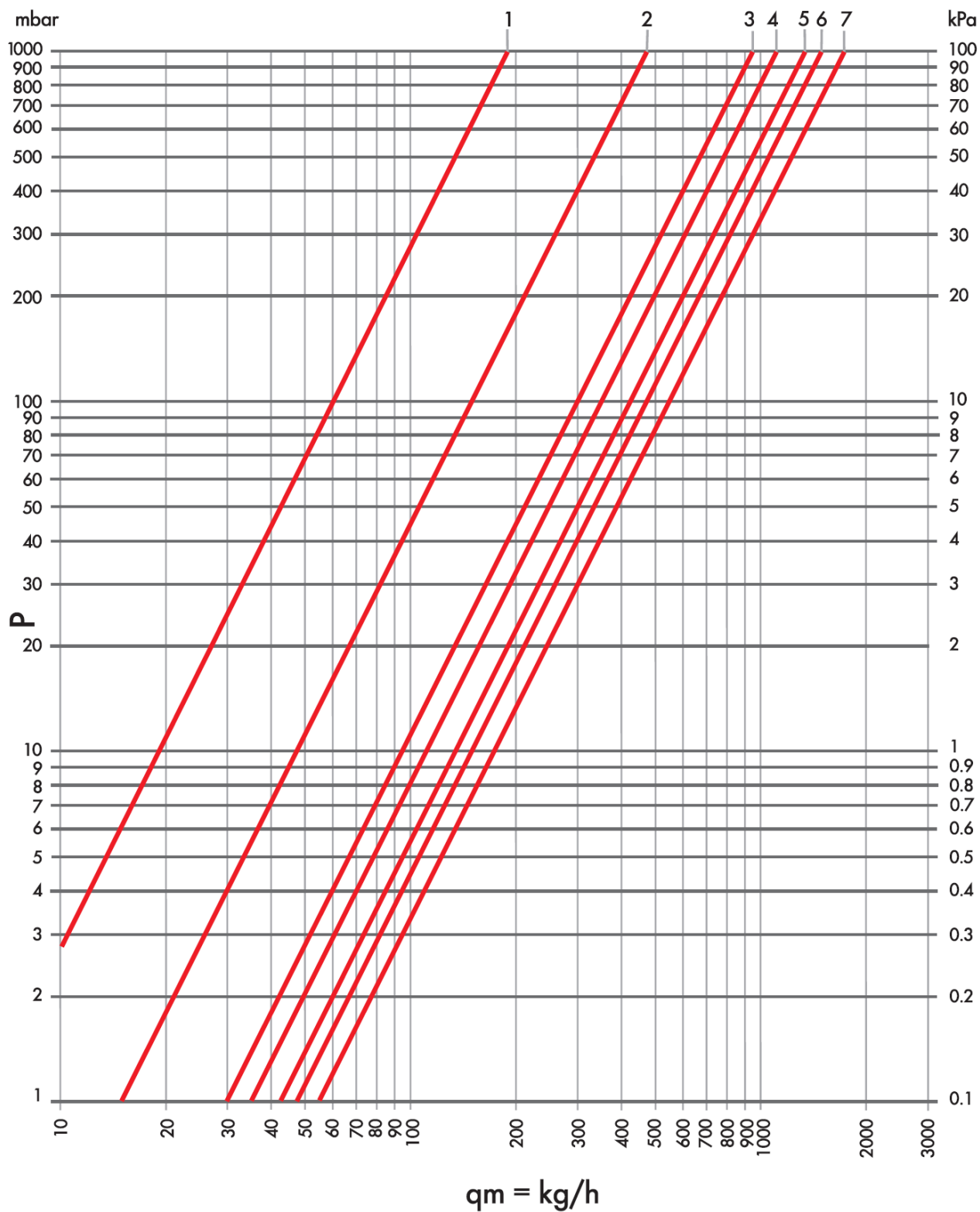
Code	Size	F	G	H	L	M
20162703	DN15 1/2	G3/4 Ek	-	G1/2	41	-
20162703CB	DN15 1/2	G3/4 Ek	-	G1/2	41	-

Hydraulic Characteristics



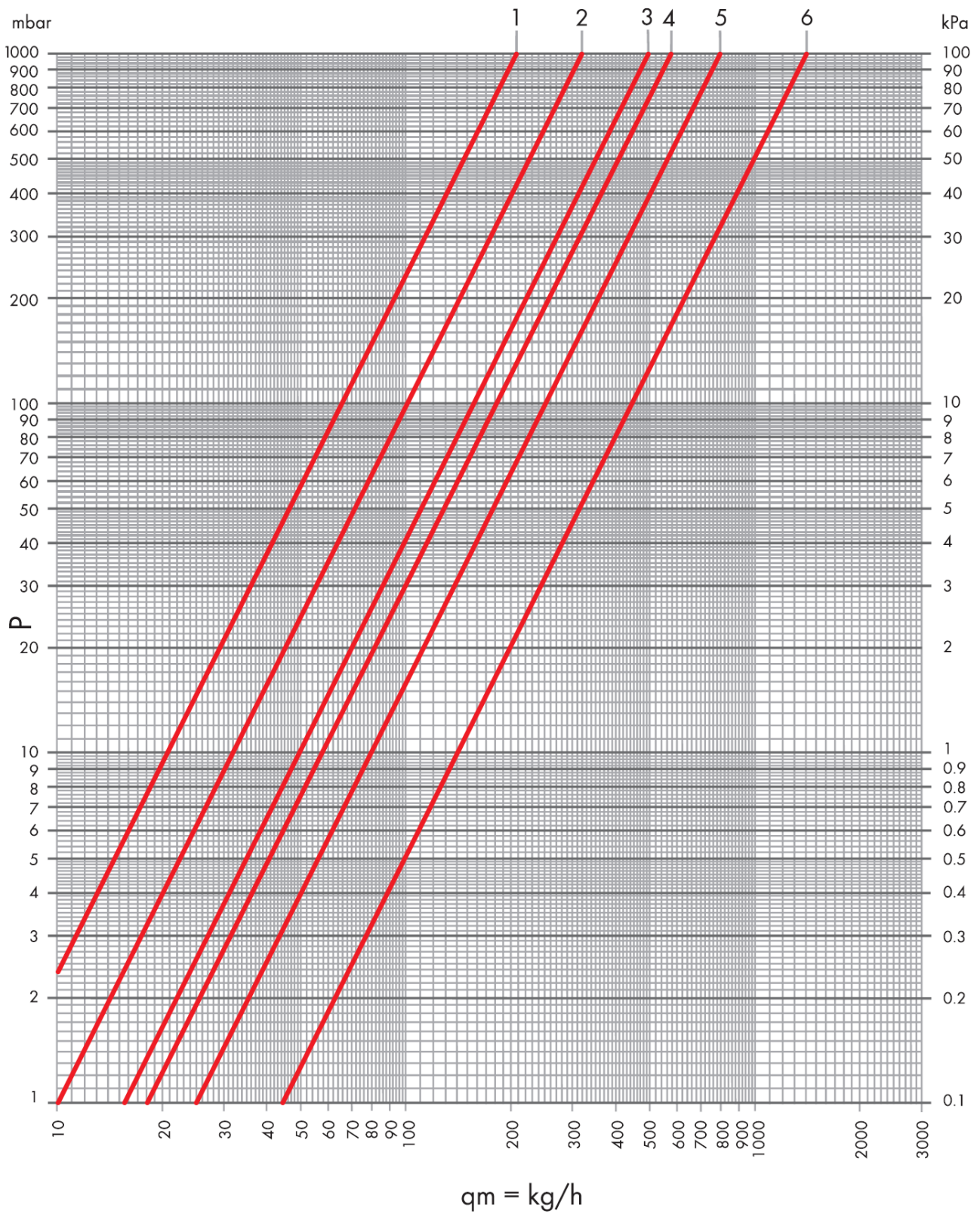
Curve	Kv	Items
1	1.65	RS 159/A 1/2; RS 146 1/2

Hydraulic Characteristics



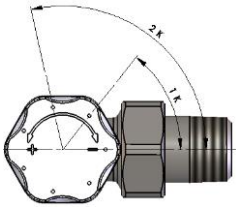
Position	Turns	Kv	Items
1	1	0.19	
2	1+1/2	0.48	
3	2	0.71	
4	2+1/2	0.92	Ds 89/A 1/2
5	3	1.06	
6	3+1/2	1.18	
7	All open	1.29	

Hydraulic Characteristics



Curve	Kv	Kv Δt 1°C	Kv Δt 2°C	Items
1	0.10	0.07	0.07	RS 2509/A 1/2
2	0.32	0.20	0.25	
3	0.49	0.24	0.36	
4	0.57	0.24	0.37	
5	0.79	0.24	0.40	
6	1.39	0.32	0.55	

Working Instructions



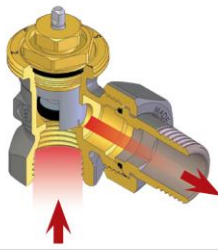
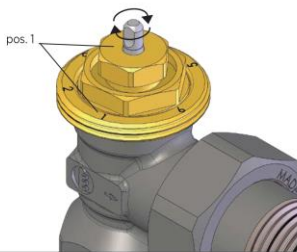
- **PROTECTION CAP:** Protects the thread during installation and allows for full closing of the valve. It enables to calibrate the nominal lift as follows:
 - Turn the cap until the valve is completely closed without forcing;
 - Draw a reference line on the valve body corresponding with one of the cap's notches;
 - Unplug the cap for two notches.



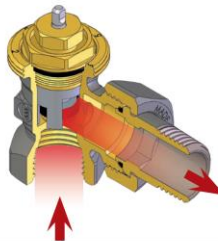
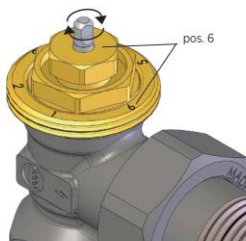
- **STEM SEALING:** The tightening device can be easily replaced without draining the system:
 - Unscrew the hexagonal collar by means of a 13 mm wrench;



- Remove the O-ring "A", clean the stainless steel stem and insert a new O-ring "A";
- Screw the collar tightly back.



- **FLOW RATE ADJUSTMENT:** To set the maximum flow rate:
 - Align the reference mark "B" on the stainless steel stem with one of the positions printed on the valve body.



- **WARNING:** Once the system has been leak tested, please relieve the pressure. A differential pressure over 1 bar between the inlet and the outlet of the valve may cause the sealing O-ring to be expelled.

Item Specifications

RS 159/A

Manual angle radiator valve with ABS knob. 3/4 EK male connection for copper, plastic and multilayer pipe. 1/2 male radiator connection prefitted with peroxide cured EPDM O-ring, cylindrical thread and O-ring. Valve body in chrome-plated CW617N brass. Double peroxide cured EPDM O-ring. Max. working temp. 120 °C, max. working pressure 10 bar, differential pressure 1 bar.

RS 146

Manual angle radiator valve with ABS knob. ISO 228/1 1/2" F connection for iron pipe. 1/2 male radiator connection prefitted with peroxide cured EPDM O-ring, cylindrical thread and O-ring. Valve body in chrome-plated CW617N brass. Double peroxide cured EPDM O-ring. Max. working temp. 120 °C, max. working pressure 10 bar, differential pressure 1 bar.

DS 89/A

Regulating angle lockshield valve with ABS sealing plug. 3/4 EK male connection for copper, plastic and multilayer pipe. 1/2 male radiator connection prefitted with peroxide cured EPDM O-ring, cylindrical thread and O-ring. Valve body in chrome-plated CW617N brass. Max. working temp. 120 °C, max. working pressure 10 bar, differential pressure 1 bar.

RS 2509/A

Angle radiator valve, thermostatically or electronically controlled, with manual ABS safety control knob. 3/4 EK male connection for copper, plastic and multilayer pipe. 1/2 male radiator connection prefitted with peroxide cured EPDM O-ring, cylindrical thread and O-ring. Valve body in chrome-plated CW617N brass. Double peroxide cured EPDM O-ring on the AISI 316 stainless steel stem. Max. working temp. 120 °C, max. working pressure 10 bar, differential pressure 1 bar.



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