



Function

Coaxial valves are divided into:

- Presettable thermostatic valves designed according to the same criteria of THERMOTEKNA valves;
- Regulating lockshield valves with the same characteristics as TEKNA lockshields.

Technical data

Max. working pressure:	10 bar
Max. differential pressure:	1 bar
Max. working temperature:	120 °C
Working fluids:	water in compliance with UNI 8065:2019

Materials

Valve body:	CW 617 N – DW UNI-EN 12165:2016
Obturator:	CW 614 N – DW UNI-EN 12164:2016
Gaskets:	Peroxide cured EPDM
Adjustment knob:	Acetal
Steel parts:	Stainless steel
Knob:	RAL9016 white ABS

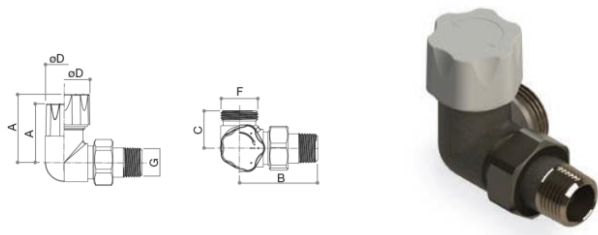
Surface treatment

Nickel-plating

Dimensional Drawings

MD 321/A

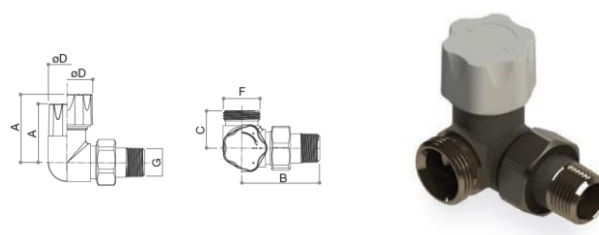
Coaxial right radiator valve, thermostatically or electronically controlled with protection cap.
Copper and plastic pipe G3/4 Eurokonus



Code	Size	A	B	C	D	E
13272722	DN15 1/2	49	56	27	37	-
Code	Size	F	G	H	L	M
13272722	DN15 1/2	G3/4EK	R1/2	-	-	-

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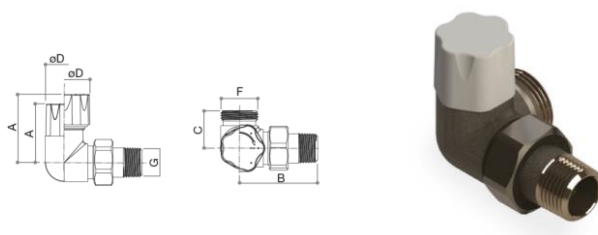
Coaxial left radiator valve, thermostatically or electronically controlled with protection cap.
Copper and plastic pipe G3/4 Eurokonus



Code	Size	A	B	C	D	E
13292722	DN15 1/2	49	56	27	37	-
Code	Size	F	G	H	L	M
13292722	DN15 1/2	G3/4EK	R1/2	-	-	-

MD 331/A

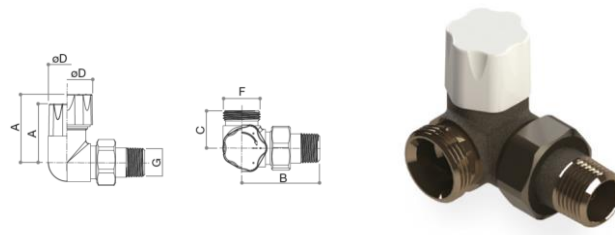
Straight radiator valve, thermostatically or electronically controlled, with manual control knob.
Connection for iron pipe.



Code	Size	A	B	C	D	E
13232722	DN15 1/2	42	56	27	30	-
Code	Size	F	G	H	L	M
13232722	DN15 1/2	G3/4EK	R1/2	-	-	-

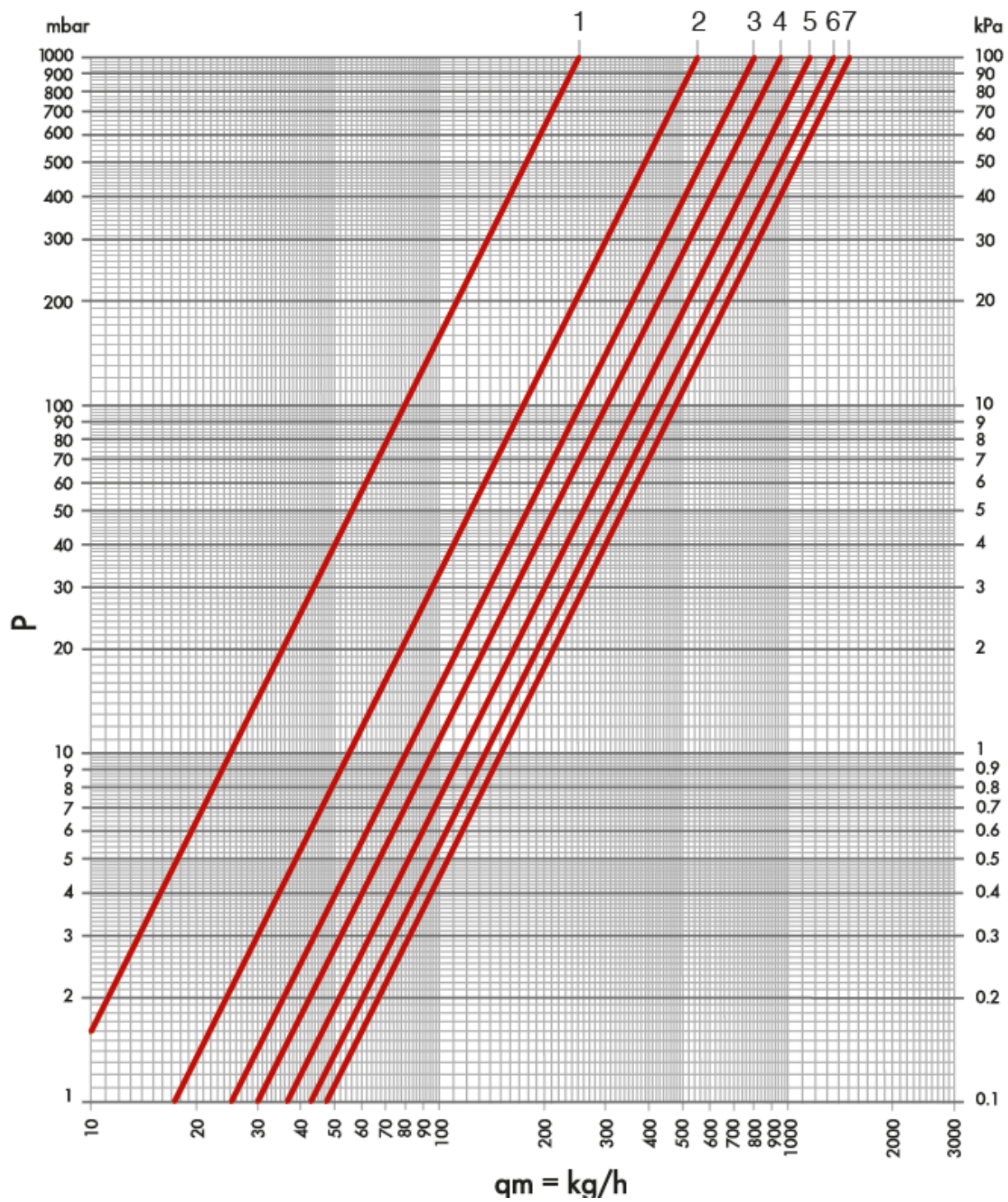
MS 331/A

Angle radiator valve, thermostatically or electronically controlled, with manual control knob.
Connection for iron pipe.



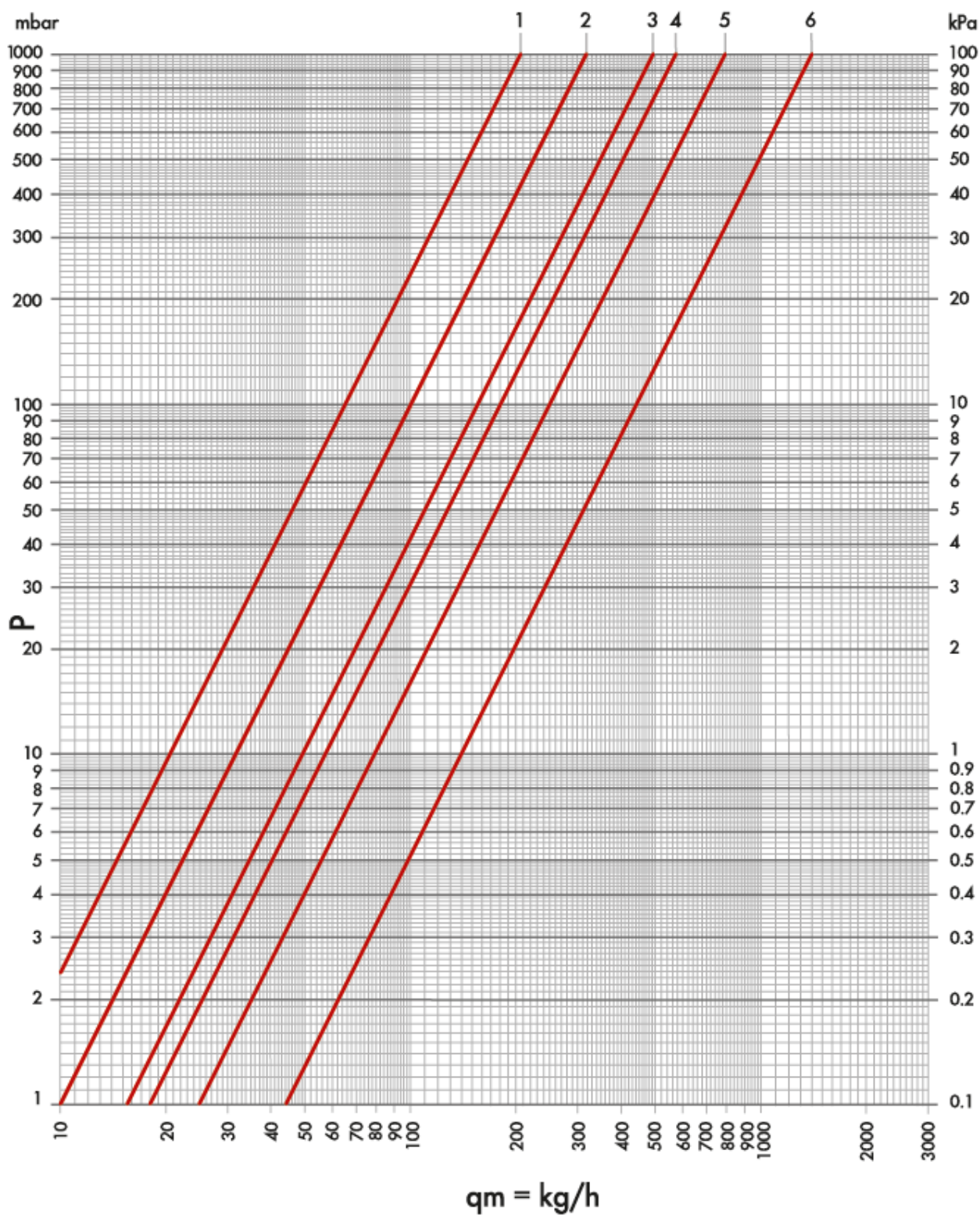
Code	Size	A	B	C	D	E
13252722	DN15 1/2	42	56	27	30	-
Code	Size	F	G	H	L	M
13252722	DN15 1/2	G3/4EK	R1/2	-	-	-

Hydraulic Characteristics



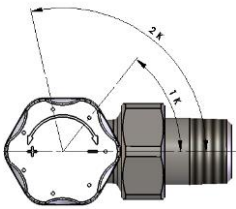
Pos.	Turns	Kv	Items
1	1	0.25	
2	1+1/2	0.55	
3	2	0.80	
4	2+1/2	0.95	MD 331/A 1/2; MS 331/A 1/2.
5	3	1.15	
6	3+1/2	1.35	
7	All open	1.50	

Hydraulic Characteristics



Curve	Kv	Kv Δt 1°C	Kv Δt 2°C	Items
1	0.21	0.15	0.19	MD 321/A 1/2; MS 321/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



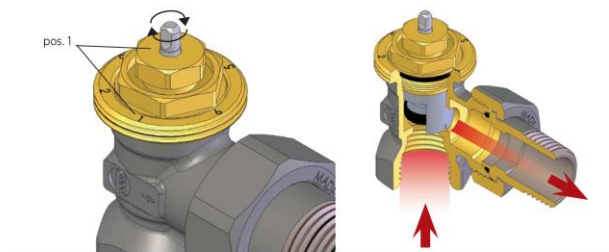
- **PROTECTION CAP:** Protects the thread during installation and allows for full closing of the valve. It enables to calibrate the nominal lift as follows:
 - Turn the cap until the valve is completely closed without forcing;
 - Draw a reference line on the valve body corresponding with one of the cap's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



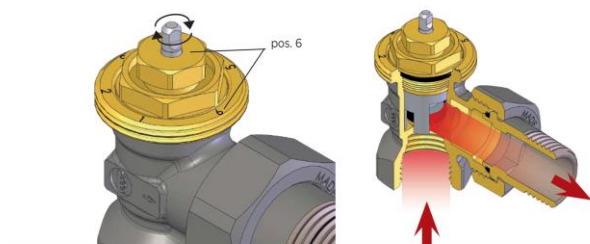
- **STEM SEALING:** The tightening device can be easily replaced without draining the system:
 - Unscrew the hexagonal collar by means of a 13 mm wrench;



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

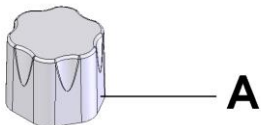


- **FLOW RATE ADJUSTMENT:** To set the maximum flow rate:
 - Align the reference mark "B" on the stainless steel stem with one of the positions printed on the valve body.

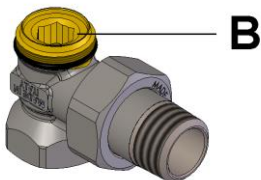


- **WARNING:** Once the system has been leak tested, please relieve the pressure. A differential pressure over 1 bar between the inlet and the outlet of the valve may cause the sealing O-ring to be expelled.

Working Instructions



A



B

- To adjust the flow rate:
 - Unscrew the ABS plug "A";
 - Without forcing, close the obturator "B" by means of a 10 mm Allen key;
 - Open the obturator for a number of turns as indicated on the flow rate diagram;
 - Screw back the ABS plug "A".
- **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

MD 321/A

Coaxial right radiator valve, thermostatically or electronically controlled with white ABS protection cap. Connection for copper, plastic and multilayer pipe 3/4"M Eurokonus. Radiator connection prefitted with peroxide cured EPDM O-ring, DIN 2999 3/8"M and 1/2"M conical thread. Valve body in chrome-plated CW617N brass. Double peroxide cured EPDM O-ring on the AISI 316 stainless steel stem. Max. working temperature 120 °C, max. pressure 10 bar, differential pressure 1 bar.

MS 321/A

Coaxial left radiator valve, thermostatically or electronically controlled with white ABS protection cap. Connection for copper, plastic and multilayer pipe 3/4"M Eurokonus. Radiator connection prefitted with peroxide cured EPDM O-ring, DIN 2999 3/8"M and 1/2"M conical thread. Valve body in chrome-plated CW617N brass. Double peroxide cured EPDM O-ring on the AISI 316 stainless steel stem. Max. working temperature 120 °C, max. pressure 10 bar, differential pressure 1 bar.

MD 331/A

Coaxial right regulating lockshield valve with ABS plug. Connection for copper, plastic and multilayer pipe 3/4"M Eurokonus. 3/8"M, 1/2"M and 3/4"M 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 obturator and the body. Max. working temperature 120 °C, max. pressure 10 bar, differential pressure 1 bar.

MS 331/A

Coaxial left regulating lockshield valve with ABS plug. Connection for copper, plastic and multilayer pipe 3/4"M Eurokonus. 3/8"M, 1/2"M and 3/4"M 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 obturator and the body. Max. working temperature 120 °C, max. pressure 10 bar, differential pressure 1 bar.



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