



V2605

Mira-3

Presettable manual radiator valve

APPLICATION

Mira-3 presettable manual valves are installed on the supply of radiators and heat exchangers in warm water heating systems. Control of the room temperature is done by manually opening or closing the valve.

FEATURES

- Convertible to thermostatic control, also when installed and in operation
- Presettable by stroke limitation
- Robust, noise and flow optimized valve housing
- Maintenance-free spindle sealing
- Valve housing with dimensions according to EN215, Appendix A, Series D
- Non-rising handwheel
- Connection to all types of pipe DN10 - DN20

SPECIFICATIONS

Medium:	Heating water, water quality to VDI2035	
pH-value:	8 - 9.5	
Max. operating temperature:	130°C (266°F)	
Operating pressure:	PN10	
Max. differential pressure:	1 bar (14.5 psi)	
k _{VS} (C _{VS})-value:	Angle DN10	1.50 (1.76)
	Angle DN15	1.95 (2.28)
	Angle DN20	2.45 (2.87)
	Straight DN10	1.30 (1.52)
	Straight DN15	1.70 (1.99)
	Straight DN20	2.20 (2.57)
Thermostat connection:	M30 x 1.5	

FUNCTION

The orifice between valve seat and valve cartridge increases when the valve is opened by turning the handwheel anti-clockwise. More heating water can flow into the radiator or heat exchanger and the room temperature rises.

The orifice between valve seat and valve cartridge decreases when the valve is closed by turning the handwheel clockwise and the supply of heating water into the radiator or heat exchanger is throttled. At the right limit stop the valve is closed except for a possible leakage rate.



DESIGN

The manual radiator valve consists of:

- Valve housing PN10, DN10, 15 or 20 with
 - internal thread connection to DIN2999 (ISO7) for threaded, copper or precision steel pipe on inlet (compression ring fittings see 'Accessories')
 - external thread connection to DIN/ISO228 with union-nut and radiator tailpiece on outlet
 - dimensions to EN215, Appendix A., Series D
- Presettable valve insert
- Handwheel

MATERIALS

- Valve housing made of nickel-plated hot-forged brass
- Valve insert made of brass with EPDM O-rings
- Handwheel made of white plastic
- Threaded tailpiece and connection nut made of nickel-plated brass

PLEASE NOTE:

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- Additives have to be suitable for EPDM sealings
- System has to be flushed thoroughly before initial operation with all valves fully open
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Honeywell Home
- Please contact us if you should have any special requirements or needs

DIMENSIONS AND ORDERING INFORMATION

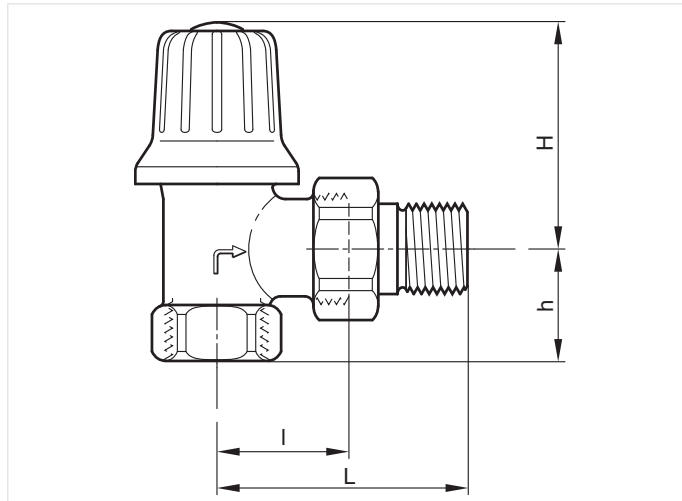


Fig. 1. Angle

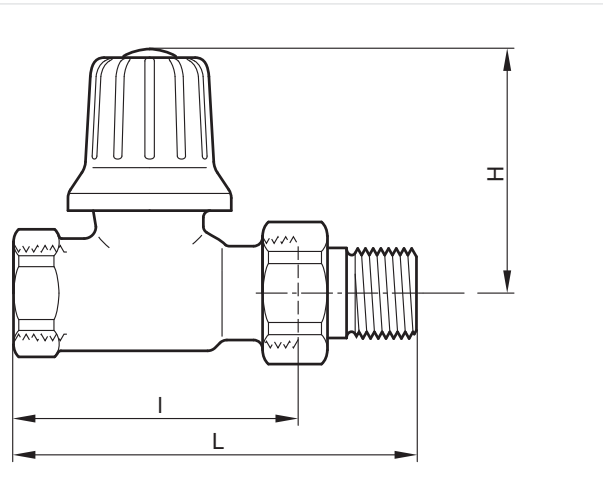


Fig. 2. Straight

Note: All dimensions in mm unless stated otherwise.

Tab. 1 Dimensions and OS-Nos (OS=Ordering System)

Body type	DN	Pipe connection	$k_{vs}(c_{vs})$ -value	l_1	l_2	l_3	l_4	OS-No.
Angle (Fig. 1)	15	Rp $\frac{3}{8}$ "	1.50 (1.76)	52	26	52	22	V2605E0010
	20	Rp $\frac{1}{2}$ "	1.95 (2.28)	58	29	52	26	V2605E0015
	25	Rp $\frac{3}{4}$ "	2.45 (2.87)	66	34	52	29	V2605E0020
Straight (Fig. 2)	15	Rp $\frac{3}{8}$ "	1.30 (1.52)	85	59	57	-	V2605D0010
	20	Rp $\frac{1}{2}$ "	1.70 (1.99)	95	66	57	-	V2605D0015
	25	Rp $\frac{3}{4}$ "	2.20 (2.57)	106	74	57	-	V2605D0020

ACCESSORIES

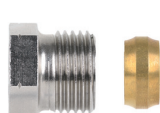
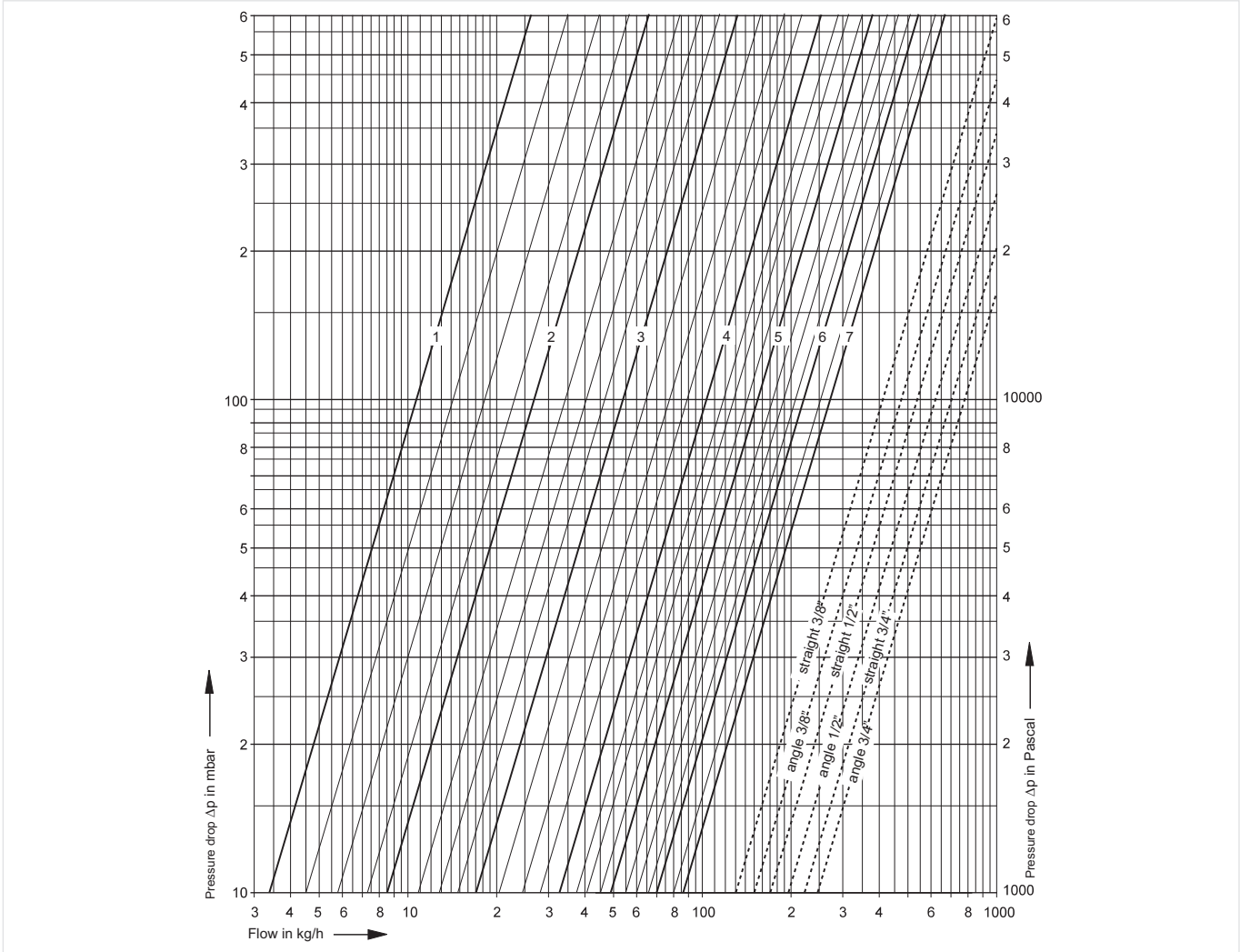
Description		Dimension	Part No.
	FIG3/8CS	Compression fitting for COPPER and STEEL pipe Consisting of compression nut and compression ring. For valves with internal thread. Note: Support inserts have to be used for copper or soft steel pipe with 1.0 mm wall thickness. Max. operating temperature 120 °C, max. operating pressure 10 bar.	
	$\frac{3}{8}$ ", DN10	10 mm	FIG3/8CS10
	$\frac{3}{8}$ ", DN10	12 mm	FIG3/8CS12
	$\frac{1}{2}$ ", DN15	10 mm	FIG1/2CS10
	$\frac{1}{2}$ ", DN15	12 mm	FIG1/2CS12
	$\frac{1}{2}$ ", DN15	14 mm	FIG1/2CS14
	$\frac{1}{2}$ ", DN15	15 mm	FIG1/2CS15
	$\frac{1}{2}$ ", DN15	15 mm	FIG1/2CS15-10
	$\frac{1}{2}$ ", DN15	16 mm	FIG1/2CS16
	$\frac{3}{4}$ ", DN18	18 mm	FIG3/4CS18
	$\frac{3}{4}$ ", DN22	22 mm	FIG3/4CS22

	FIG3/8CSS	Compression fitting for COPPER and STEEL pipe	
		Consisting of compression nut and compression ring and support insert. For valves with internal thread.	
		Note: Support inserts have to be used for copper or soft steel pipe with 1.0 mm wall thickness. Max. operating temperature 120 °C, max. operating pressure 10 bar.	
		3/8", DN10	FIG3/8CSS12
		1/2", DN15	FIG1/2CSS12
		1/2", DN15	FIG1/2CSS14
		1/2", DN15	FIG1/2CSS15
		1/2", DN15	FIG1/2CSS16
	FIG1/2M	Compression fitting for MULTILAYER pipe. Consisting of compression nut, compression ring and support insert. For valves with internal thread.	
		Note: Max. operating temperature 90°C, max. operating pressure 10 bar	
		1/2", DN15	FIG1/2M16X2
	VA6290	Reduction	
		1" pipe > 1/2" valve	VA6290A260
		1 1/4" pipe > 1/2" valve	VA6290A280
		1" pipe > 3/4" valve	VA6290A285
		1 1/4" pipe > 3/4" valve	VA6290A305
	VA5201Axxx	Radiator tailpiece with thread up to collar	
		for valves DN10 (3/8")	VA5201A010
		for valves DN15 (1/2")	VA5201A015
		for valves DN20 (3/4")	VA5201A020
	VA5204Bxxx	Extended radiator tailpiece, nickel-plated, to be shortened as required	
		3/8" x 70 mm (for DN10) thread approx. 50 mm	VA5204B010
		1/2" x 76 mm (for DN15) thread approx. 65 mm	VA5204B015
		3/4" x 70 mm (for DN20) thread approx. 60 mm	VA5204B020
	VA2202Axxx	Pressure cap – for shutting off valves on radiator outlet	
		for valves DN10 (3/8")	VA2202A010
		for valves DN15 (1/2")	VA2202A015
		for valves DN20 (3/4")	VA2202A020
	VA5090	Sealing ring for pressure cap	
		for valves DN10 (3/8")	VA5090A010
		for valves DN15 (1/2")	VA5090A015
		for valves DN20 (3/4")	VA5090A020
	VA8200A	Service tool to replace valve insert	
		for all sizes	VA8200A001
	VA8201M	Presetting tool	
		for all Mira-3	VA8201M301

SERVICE PARTS

	VS1200M	Valve insert		
		for all Mira-3		VS1200M301
	VS4200	Handwheel		
		for all Mira-3		VS4200MI03

FLOW DIAGRAM



PRESETTING VALUES

Presetting	1	2	3	4	5	6	7
k_{vs}(c_v)-values	0.034(0.04)	0.085(0.10)	0.17 (0.19)	0.32 (0.37)	0.49 (0.57)	0.70 (0.82)	0.86 (1.01)
Tolerance ± %	35	30	25	21	17	14	12
Approx. turns of handwheel	3/8	5/8	7/8	1 1/8	1 3/8	1 5/8	1 7/8

KVS (CV)-VALUES

Type	Angle			Straight		
DN	10	15	20	10	15	20
k_{vs} (c_{vs})-value	1.50 (1.76)	1.95 (2.28)	2.45 (2.87)	1.30 (1.52)	1.70 (1.99)	2.20 (2.57)

For more information

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