V2430/V2440

Veramax

Presettable high flow lockshield valves

APPLICATION

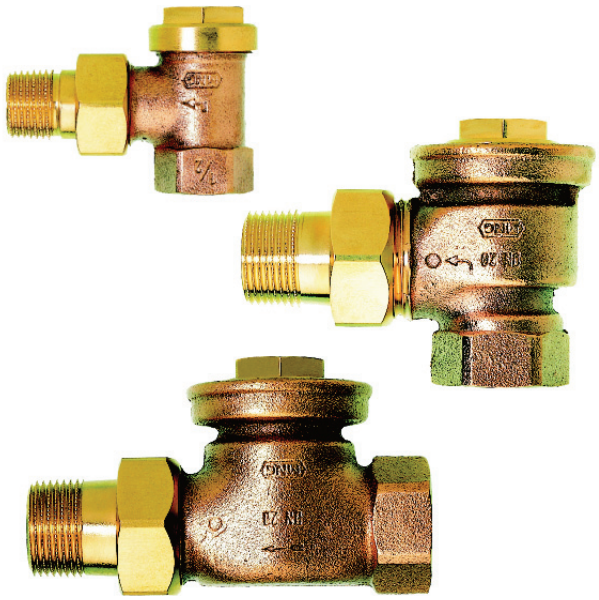
The Veramax is a presettable radiator lockshield valve for the supply or return of radiators or heat exchangers. It is used:

- in gravity heating systems
- in two-pipe systems with high flow rates
- in one-pipe heating systems

for shut-off and regulation of individual radiators or heat exchangers.

Installation in supply also possible, draining/filling function isn´t supported.

The Veramax is suitable for hot water or low pressure steam heating systems and cold water cooling systems.



FEATURES

- For high flow rates
- Presetting and shut-off with one valve
- Optional flow direction. Performance values apply for both directions
- Piston externally O-ring sealed
- Robust corrosion-resistant red bronze housing
- Connection to all types of DN15 - DN20 pipework and to DN25 threaded pipework

SPECIFICATIONS

Medium:	Water, water-glycol mixture Low pressure steam Quality to VDI2035	
Operating temperature:	Water (36 - 266°F) Steam (230°F)	2 - 130°C max. 110°C
Max. operating pressure:	Water (145 psi) Steam (7.3 psi)	10.0 bar 0.5 bar
k_{VS} (c_{VS})-value:	Compact angle Angle Straight	5.0 (5.85) 7.0 (8.19) 5.0 (5.85)

DESIGN

The lockshield valve consists of:

- Valve housing PN10, DN15, 20 or 25 with
  - internal thread connection to DIN2999 (ISO7) on inlet
  - external thread connection to DIN/ISO228 with union-nut and radiator tailpiece on outlet
- Valve insert
- Protection cap

MATERIALS

- Valve housing made of red bronze
- Valve insert made of brass with EPDM seals
- Cover cap made of brass with PTFE sealing ring
- Union-nut and tailpiece made of brass

FUNCTION

The Veramax connects the return of a radiator or heat exchanger to the water loop and has the functions regulation and shut-off.

Regulation:

The flow can be regulated by presetting the Veramax to a certain value derived from the flow diagrams. By presetting, the opening between valve insert and valve seat is reduced. In this way the flow is throttled.

The Veramax is supplied set fully open.

Shut-off:

The return of the radiator can be shut-off by closing the valve insert.

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

IDENTIFICATION

- Compact angle (V2430):
  Red bronze coloured body with hexagon cap
- Angle and Straight (V2440):
  Red bronze coloured body with collar and cap with hexagon cap

DIMENSIONS AND ORDERING INFORMATION

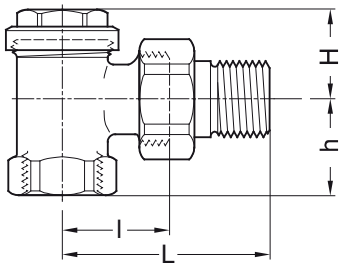


Fig. 1. Compact angle (V2430)

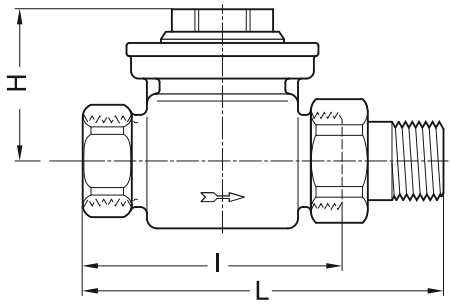


Fig. 2. Angle (V2440E)

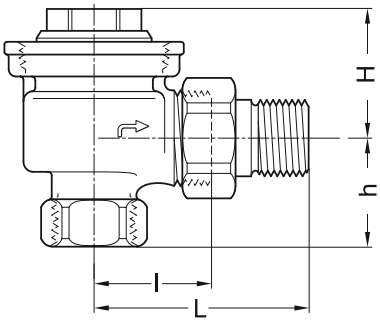


Fig. 3. Straight (V2440D)

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

Type	DN	Pipe connection	$k_{vs}(c_{vs})$-value	Dimensions				OS-No.
				L	l	H	h	
Compact angle (Fig. 1)	15	Rp 1/2"	5.0 (5.85)	58	29	30	26	V2430E0015
Angle (Fig. 2)	15	Rp 1/2"	7.0 (8.19)	60	32	38	30	V2440E0015
	20	Rp 3/4"	7.0 (8.19)	67	36	38	34	V2440E0020
	25	Rp 1"	7.0 (8.19)	74	42	39	38	V2440E0025
Straight (Fig. 3)	15	Rp 1/2"	5.0 (5.85)	96	68	46	-	V2440D0015
	20	Rp 3/4"	5.0 (5.85)	105	74	46	-	V2440D0020
	25	Rp 1"	5.0 (5.85)	122	90	47	-	V2440D0025

Note: All dimensions in mm unless stated otherwise.

INSTALLATION EXAMPLE

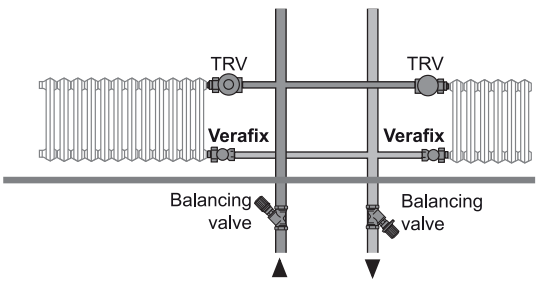


Fig. 4. Installation example heating system

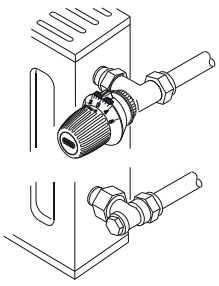
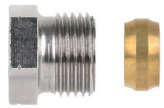
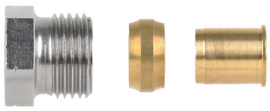
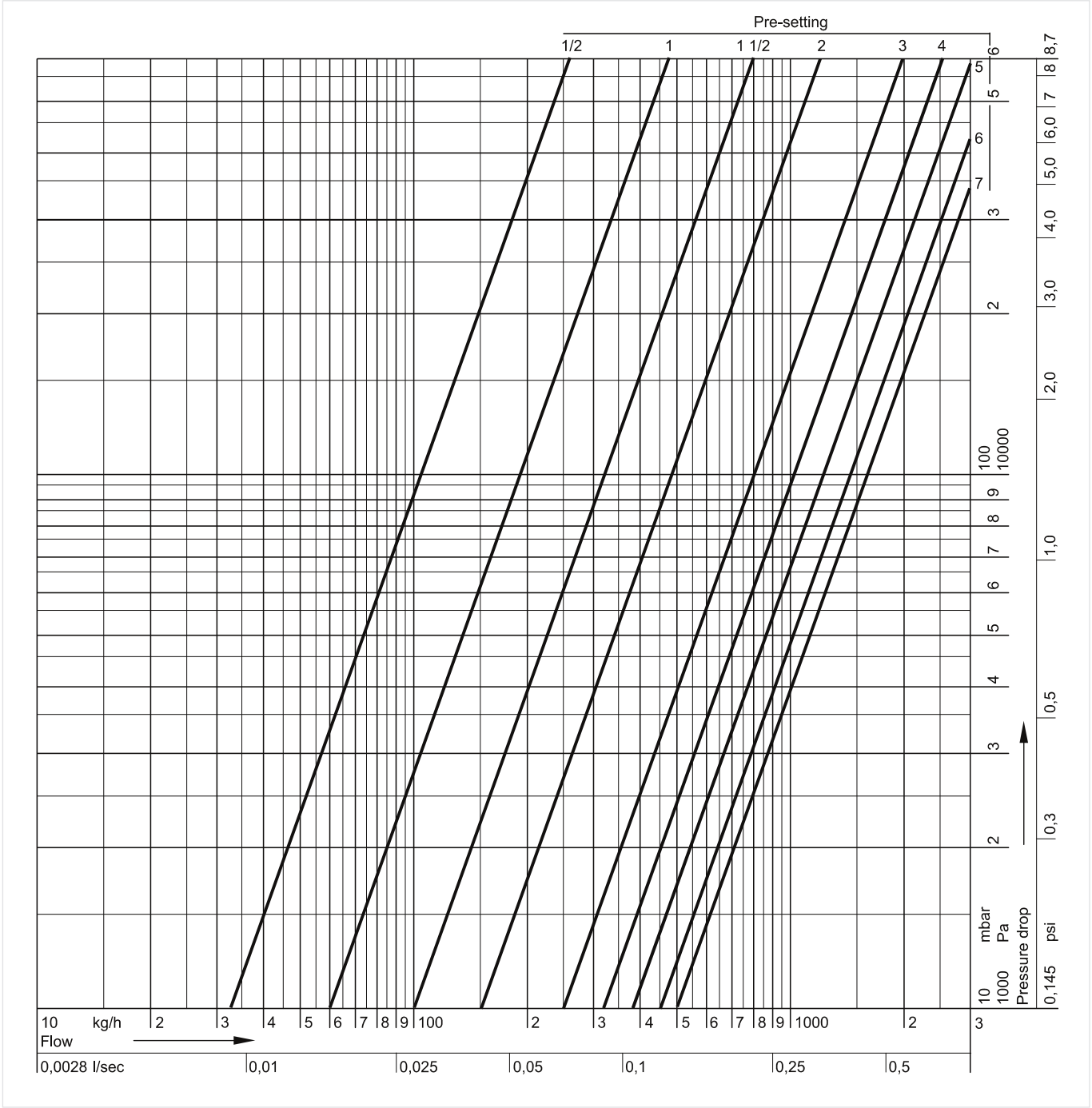


Fig. 5. Installation example radiator

ACCESSORIES

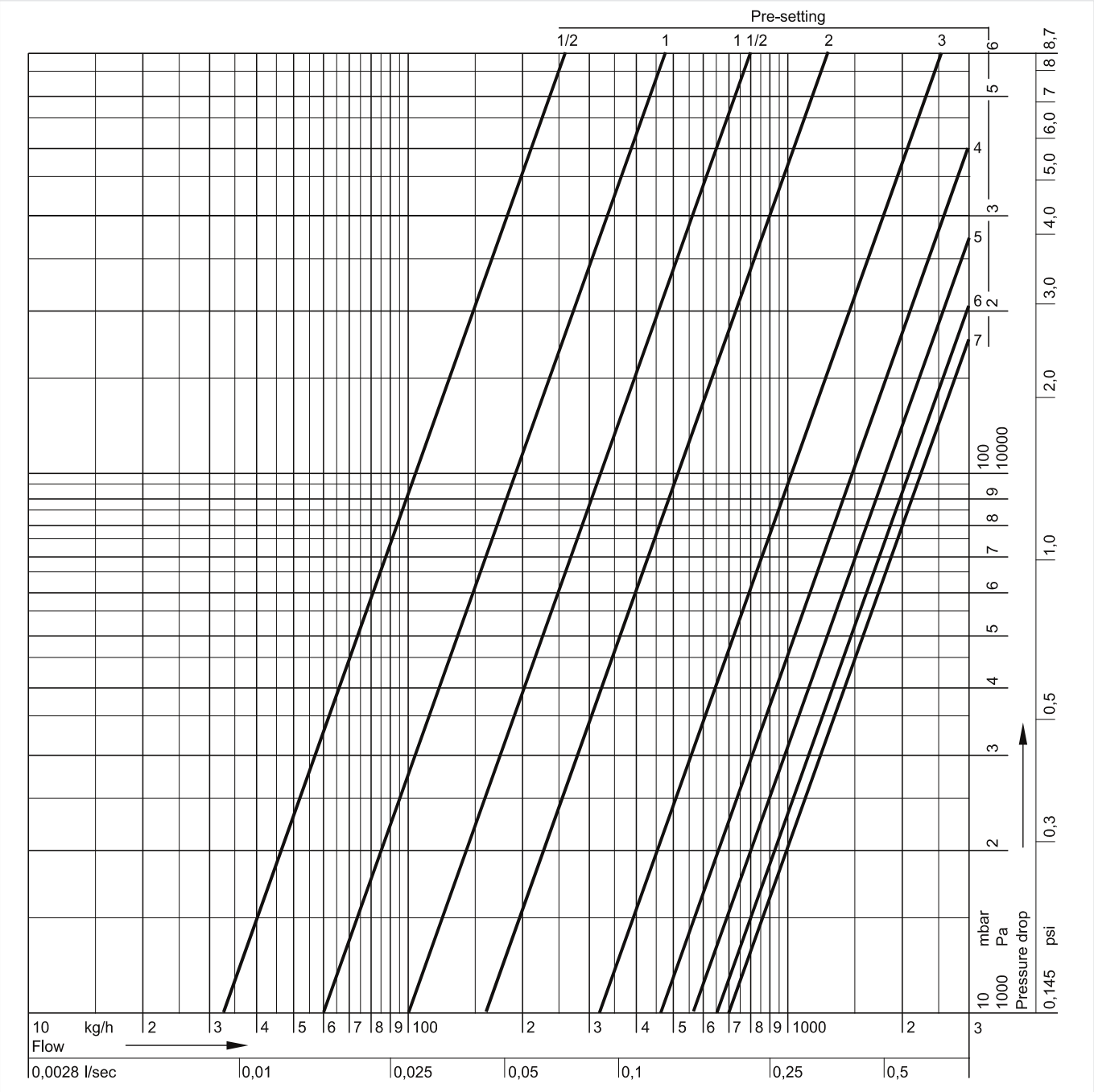
	Description		Dimension	Part No.
	**FIG3/8CS**	**Compression fitting for COPPER and STEEL pipe** Consisting of compression nut and compression ring. For valves with internal thread. Note: Support inserts have to be used for copper or soft steel pipe with 1.0 mm wall thickness. Max. operating temperature 120 °C, max. operating pressure 10 bar.		
		3/8", DN10	10 mm	FIG3/8CS10
		3/8", DN10	12 mm	FIG3/8CS12
		1/2", DN15	10 mm	FIG1/2CS10
		1/2", DN15	12 mm	FIG1/2CS12
		1/2", DN15	14 mm	FIG1/2CS14
		1/2", DN15	15 mm	FIG1/2CS15
		1/2", DN15	15 mm	FIG1/2CS15-10
		1/2", DN15	16 mm	FIG1/2CS16
		3/4", DN18	18 mm	FIG3/4CS18
		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	12 mm	FIG3/8CSS12
		1/2", DN15	12 mm	FIG1/2CSS12
		1/2", DN15	14 mm	FIG1/2CSS14
		1/2", DN15	15 mm	FIG1/2CSS15
		1/2", DN15	16 mm	FIG1/2CSS16
		1/2", DN15	18 mm	FIG1/2CSS18
		3/4", DN20	18 mm	FIG3/4CSS18
	**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	16 mm	FIG1/2M16X2
	**VA5201A**	**Radiator tailpiece with thread up to collar**		
		for valves DN15 (1/2")		VA5201A015
		for valves DN20 (3/4")		VA5201A020
	**VA5230**	**Soldering tailpiece**		
		for DN15	1/2" x 15 mm	VA5230A015
		for DN20	3/4" x 22 mm	VA5230A020
	**VA5204Bxxx**	**Extended radiator tailpiece, nickel-plated, to be shortened as required**		
		1/2" x 76 mm (for DN15) thread approx. 65 mm		VA5204B015
		3/4" x 70 mm (for DN20) thread approx. 60 mm		VA5204B020
	**VA2202A**	**Pressure cap – for shutting off valves on radiator outlet**		
		for valves DN15 (1/2")		VA2202A015
		for valves DN20 (1")		VA2202A020
	**VA5090**	**Sealing ring for pressure cap**		
		for valves DN15 (1/2")		VA5090A015
		for valves DN20 (3/4")		VA5090A020

FLOW DIAGRAM FOR COMPACT ANGLE (V2430E) AND STRAIGHT (V2440D)



Turns of presetting screw	$^1/_2$	1	1 $^1/_2$	2	3	4	5	6	7 = open
k_v-value	0.32	0.60	1.00	1.50	2.50	3.20	3.80	4.50	k_{VS} = 5.00
cv-value	0.37	0.70	1.17	1.76	2.93	3.74	4.45	5.27	5.85

FLOW DIAGRAM FOR ANGLE (V2440E)



Turns of presetting screw	1/2	1	1 1/2	2	3	4	5	6	7 = open
k_v-value	0.32	0.60	1.00	1.60	3.20	4.60	5.60	6.50	k_{vs} = 7.00
cv-value	0.37	0.70	1.17	1.87	3.74	5.38	6.55	7.61	8.19

For more information

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