Honeywell Home Radiator Valves and Thermostats



V2400

Verafix

Presettable lockshield valve with retainable presetting

APPLICATION

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

- in typical two-pipe heating systems
- in special applications in one-pipe heating systems

for shut-off and regulation of individual radiators. Together with a draining adapter (see 'Accessories') radiators can be drained or filled with the system in operation. The presetting isn't affected by this.

Installation in supply also possible, draining/filling function isn't supported.

The lockshield valve is suitable for hot water and low pressure steam heating systems and cold water cooling systems.

FEATURES

- Retainable presetting, independent of draining or shutoff process
- Presetting, shut-off and draining/filling with one valve
- Presettable by stroke limitation
- Optional flow direction. Performance values apply for both directions
- Piston externally O-ring sealed
- Body dimensions to DIN3842
- Connection to all types of pipe DN10 DN20
- Easy identification: protection cap with hexagon on top and collar to valve; also see illustration identification

SPECIFICATIONS

Medium:	Water, water-glycol mixture				
	Low pressure steam				
	Quality to VDI2035				
Operating temperature:	Water	2 - 130°C			
	(36 - 266°F)				
	Steam	max. 110°C			
	(230°F)				
Max. operating pressure:	Water	10.0 bar			
	(145 psi)				
	Steam	0.5 bar			
	(7.3 psi)				
k _{vs} (c _{vs})-value:	Straight DN10,DN15	1.25 (1.46)			
	Angle DN10, DN15	1.70 (1.98)			
	Straight, Angle DN20	1.80 (2.09)			



DESIGN

The lockshield valve consists of:

- Valve housing PN10, DN10, 15 or 20 with
 - internal thread connection to DIN2999 (ISO7) or external thread connection to DIN/ISO228 on inlet
 - external thread connection to DIN/ISO228 with union-nut and radiator tailpiece (not V2406) on outlet
 - Body dimensions to DIN3842
- Valve insert
- Protection cap

MATERIALS

- Valve housing made of nickel-plated brass
- Valve insert made of brass with EPDM seals
- Tailpiece, protection cap and union-nut made of nickelplated brass

FUNCTION

The Verafix connects the return of a radiator or heat exchanger to the heating loop and has the functions regulation, shut-off and draining/filling.

Regulation:

The flow can be regulated by presetting the Verafix 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.

Draining:

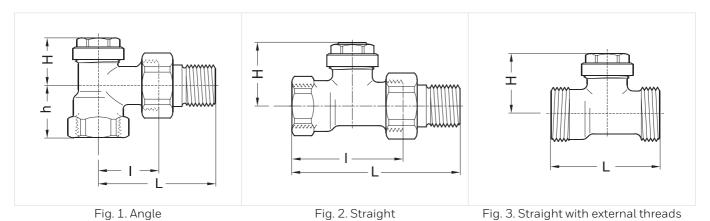
Draining or filling of the radiator is carried out with the draining adapter (see 'Accessories'). Draining of individual radiators using the Verafix has no influence on the heating loop or other radiators in the loop.

Presetting isn't affected by shut-off or draining.

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



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

Туре	DN	Pipe connection	k _{vs} (c _{vs})- value	L	ı	Н	h	OS-No.
Angle	10	Rp ³ / ₈ "	1.70 (1.99)	52	26	25	22	V2400E0010
	15	Rp ¹ / ₂ "	1.70 (1.99)	58	29	25	26	V2400E0015
	20	Rp ³ /4"	1.80 (2.09)	66	34	29	29	V2400E0020
Straight	10	Rp ³ / ₈ "	1.25 (1.46)	75	49	32	-	V2400D0010
	15	Rp ¹ / ₂ "	1.25 (1.46)	80	51	32	-	V2400D0015
	20	Rp ³ / ₄ "	1.80 (2.09)	91	59	32	-	V2400D0020
Straight with external threads	15	G ³ / ₄ " AG	1.25 (1.46)	51	-	32	-	V2406D0015

Note: All dimensions in mm unless stated otherwise.

INSTALLATION EXAMPLE

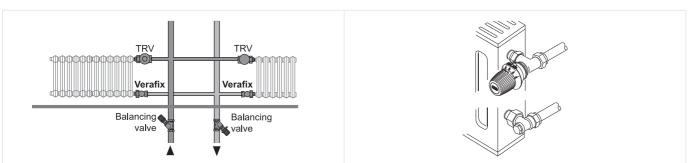


Fig. 4. Installation example heating system

Fig. 5. Installation example radiator

ACCESSORIES

Descrip	tion	Dimension	Part No.			
FIG3/80	CS Compression fitting	Compression fitting for COPPER and STEEL pipe				
and shipping	Consisting of comp internal thread.	Consisting of compression nut and compression ring. For valves with internal thread.				
		s have to be used for copper or soft st g temperature 120°C, max. operating				
	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			
FIG3/80	CSS Compression fitting	ng for COPPER and STEEL	pipe			
man middid	- ·	Consisting of compression nut and compression ring and support insert. For valves with internal thread.				
	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			
FIG1/2I	M Compression fitting	Compression fitting for MULTILAYER pipe. Consisting of compression nut, compression ring and support insert. For valves with internal thread.				
FIG1/21						
		g temperature 90°C, max. operating p				
	¹ / ₂ ", DN15	16 mm	FIG1/2M16X2			
FEG3/4		Compression fitting for COPPER and STEEL pipe. Consisting of one-piece (preassembled) nut. Soft sealing connection. For				
100						
	valves with externa	l thread G ³ /4".				
	Max. operating	Max. operating temperature 90°C, max. operating pressure 10 bar.				
	$G^{3}/_{4}$ ", 1 pcs.	10 mm	FEG3/4CS10			
	$G^{3}/_{4}$ ", 1 pcs.	12 mm	FEG3/4CS12			
	$G^{3}/4$ ", 1 pcs.	14 mm	FEG3/4CS14			
	$G^{3}/_{4}$ ", 10 pcs.	14 mm	FEG3/4CS14-10			
	$G^{3}/_{4}$ ", 1 pcs.	15 mm	FEG3/4CS15			
	$G^{3}/4$ ", 10 pcs.	15 mm	FEG3/4CS15-10			
	$G^{3}/_{4}$ ", 1 pcs.	16 mm	FEG3/4CS16			
	$G^{3}/_{4}$ ", 1 pcs.	18 mm	FEG3/4CS18			
FEG3/4	Consisting of one-	Compression fitting for PEX pipe. Consisting of one-piece (preassembled) nut and reinforcing insert. Soft				
		. For valves with external thre				
		g temperature 90°C, max. operating p				
and the same	$G^{3}/4$ ", 1 pcs.	12 x 1.1 mm	FEG3/4P12X1.1			
	$G^{3}/_{4}$ ", 1 pcs.	16 x 1.5 mm	FEG3/4P16X1.5			

_	FEG3/4PM	Compression fitting for PEX ar				
		Consisting of one-piece nut with preassembled antitorsion elastic compression ring and one-piece reinforcing insert. For valves with externa thread $G^3/_4$ ".				
		Note: Max. operating temperature 90	°C, max. operating p	ressure 10 bar.		
		$G^{3}/_{4}$ ", 1 pcs.	14 x 2 mm	FEG3/4PM14X2		
		$G^3/4$ ", 1 pcs.	16 x 2 mm	FEG3/4PM16X2		
		$G^3/4$ ", 10 pcs.	16 x 2 mm	FEG3/4PM16X2-10		
		$G^{3}/_{4}$ ", 1 pcs.	16 x 2.2 mm	FEG3/4PM16X2.2		
		$G^3/4$ ", 1 pcs.	17 x 2 mm	FEG3/4PM17X2		
		$G^3/4$ ", 10 pcs.	17 x 2 mm	FEG3/4PM17X2-10		
		$G^{3}/_{4}$ ", 1 pcs.	18 x 2 mm	FEG3/4PM18X2		
		$G^3/4$ ", 10 pcs.	18 x 2 mm	FEG3/4PM18X2-10		
		$G^3/4$ ", 1 pcs.	20 x 2 mm	FEG3/4PM20X2		
Allien-	VA5201Axxx	Radiator tailpiece with thread up to collar				
Martin Maria		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 require				
		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		VA5204B020		
		approx. 60 mm				
	VA3300	Draining adapter				
		for all sizes		VA3300A001		
	VA8300	Verafix-key				
	740000	for all sizes		VA8300A001		

SERVICE PARTS

	VS3301A	Cover cap			
		for all sizes		VS3301A001	
	VS3302A Sealing ring for cover cap				
		for all sizes		VS3302A001	
	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	
603)	VS1300	Exchange valve insert			
		Verafix type		VS1300VF02	
	VA5090	Sealing ring for pressure cap			
		for valves DN10 ($^{3}/_{8}$ ")		VA5090A010	
		for valves DN15 ($^{1}/_{2}$ ")		VA5090A015	
		for valves DN20 (³ / ₄ ")		VA5090A020	
4.		D 1 10 10 10 11 01	ENOUL COCCES	E DO (440 O L)	

IDENTIFICATION

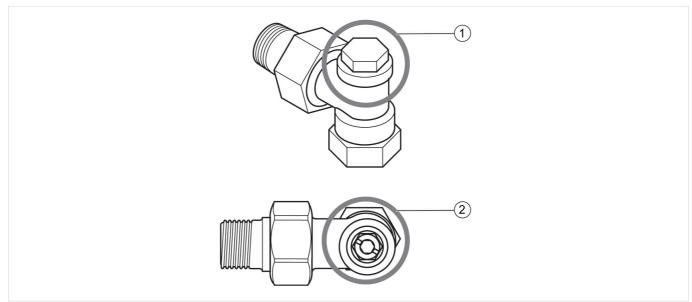
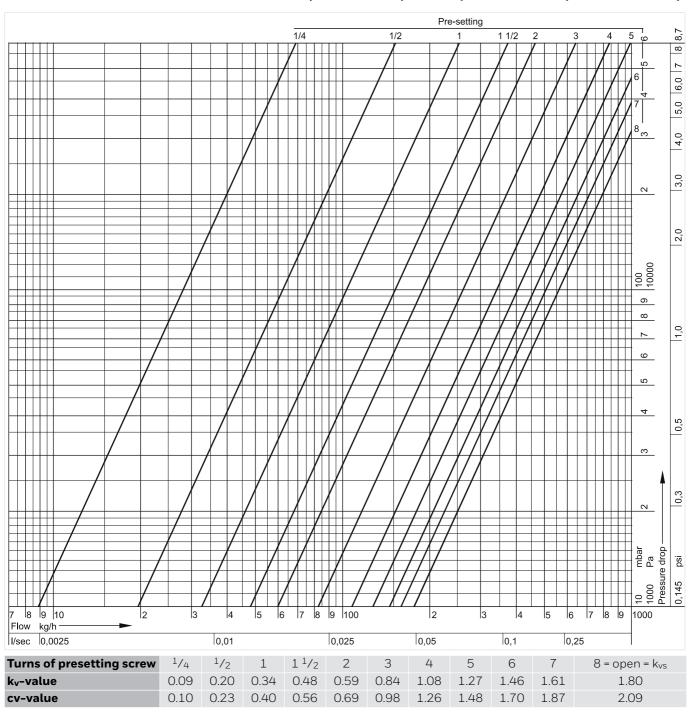


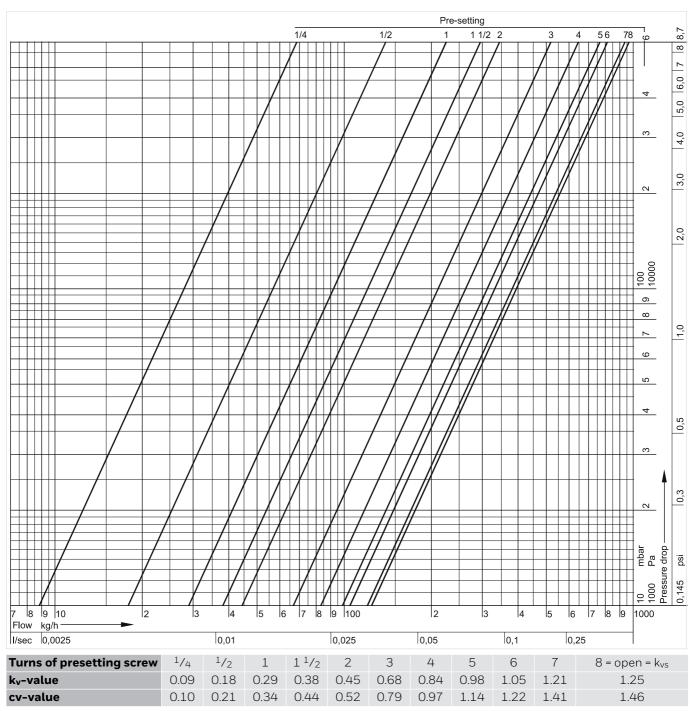
Fig. 6. Identification of Verafix

- $1) \quad \hbox{Protection cap fitted: protection cap with hexagon (SW19) on top and collar on valve side} \\$
- 2) Protection cap removed: valve insert with smooth rim, inside hexagon (SW10) and screwdriver slit in the centre

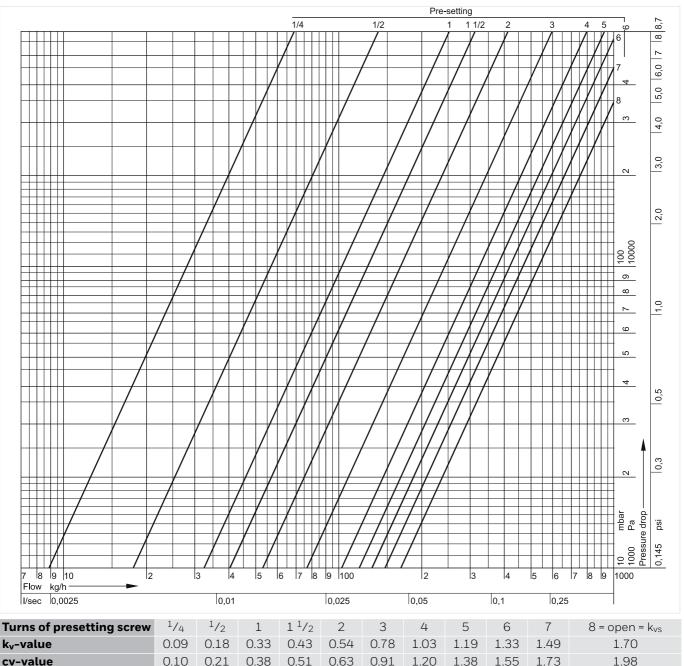
FLOW DIAGRAM FOR VERAFIX ANGLE, STRAIGHT, DN20 (V2400E0020, V2400D0020)



FLOW DIAGRAM FOR VERAFIX STRAIGHT, DN10 (V2400D0010), DN15 (V2400D0015)



FLOW DIAGRAM FOR VERAFIX ANGLE, DN10 (V2400E0010), DN15 (V2400E0015)



k_v-value 0.10 cv-value 0.21 0.38 0.51 0.63 0.91 1.20 1.38 1.55 1.98 1.73

For more information

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Subject to change

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