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.

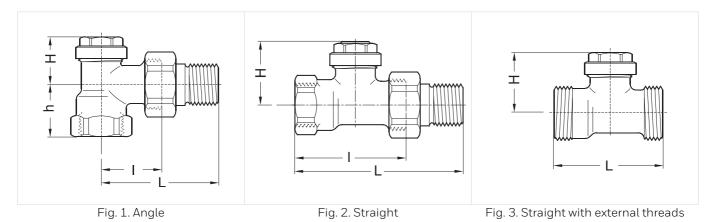
Draining:

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

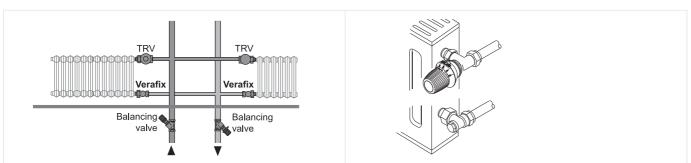


Fig. 4. Installation example heating system

Fig. 5. Installation example radiator

ACCESSORIES

	Description		Dimension	Part No.		
	FIG3/8CS	Compression fitting for COPP	ER and STEEL pipe			
and the same of th		Consisting of compression nut and compression ring. For valves with interest 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 COPP	ER and STEEL pipe			
		Consisting of compression nut and compression ring and support insert. For valves with internal thread.				
		Note: Support inserts have to be use Max. operating temperature 12				
and in the same of		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					
	I IGI7 ZIVI	Compression fitting for MULTILAYER pipe. Consisting of compression nu compression ring and support insert. For valves with internal thread.				
ATTENDED ATTENDED		Note: Max. operating temperature 90	, ,,			
		¹ / ₂ ", DN15	16 mm	FIG1/2M16X2		
	FEG3/4CS	Compression fitting for COPP	ER and STEEL pipe.			
	FEG3/4CS	Compression fitting for COPP Consisting of one-piece (preass		aling connection. For		
	FEG3/4CS	_	embled) nut. Soft sea	aling connection. For		
RO	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ / ₄	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm	wall thickness not required. Ma		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ / ₄) Note: Reinforcing insert for copper or	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm	wall thickness not required. Ma		
RO	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ / ₄ ' Note: Reinforcing insert for copper or operating temperature 90°C, n	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10	wall thickness not required. Ma bar.		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread $G^3/4$ ' Note: Reinforcing insert for copper or operating temperature 90°C, note: $G^3/4$ '', 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm	wall thickness not required. Mabar. FEG3/4CS10		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread $G^3/4$ ' Note: Reinforcing insert for copper or operating temperature 90°C, note: $G^3/4$ '', 1 pcs. $G^3/4$ '', 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ /4' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm max. operating pressure 10 10 mm 12 mm 14 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ / ₄ ' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ / ₄ ", 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ /4' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ /4'', 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10 FEG3/4CS15		
	FEG3/4CS	Consisting of one-piece (preass valves with external thread G ³ /4' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 10 pcs. G ³ /4", 10 pcs. G ³ /4", 10 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm max. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10 FEG3/4CS15 FEG3/4CS15-10		
	FEG3/4P	Consisting of one-piece (preass valves with external thread G ³ / ₄ '' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ / ₄ '', 1 pcs. G ³ / ₄ '', 1 pcs. G ³ / ₄ '', 1 pcs. G ³ / ₄ '', 10 pcs. G ³ / ₄ '', 10 pcs. G ³ / ₄ '', 10 pcs. G ³ / ₄ '', 1 pcs.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm 15 mm 16 mm	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10 FEG3/4CS15 FEG3/4CS15		
		Consisting of one-piece (preass valves with external thread G ³ /4' Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 10 pcs. G ³ /4", 10 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. Compression fitting for PEX pictors of the consisting of one-piece (preasses	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm 15 mm 16 mm 18 mm ipe. embled) nut and reinf	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10 FEG3/4CS15 FEG3/4CS15-10 FEG3/4CS16 FEG3/4CS18		
		Consisting of one-piece (preass valves with external thread G ³ /4'' Note: Reinforcing insert for copper or operating temperature 90°C, note: G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 10 pcs. G ³ /4", 10 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. G ³ /4", 1 pcs. Compression fitting for PEX piece.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm 15 mm 16 mm 18 mm ipe. embled) nut and reinf rnal thread G ³ /4".	wall thickness not required. Mabar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS14-10 FEG3/4CS15 FEG3/4CS15 FEG3/4CS15 FEG3/4CS16 FEG3/4CS18 orcing insert. Soft sealin		
		Consisting of one-piece (preass valves with external thread G ³ /4 ¹ Note: Reinforcing insert for copper or operating temperature 90°C, note of G ³ /4", 1 pcs. Compression fitting for PEX piece (preassed connection. For valves with external positions. Possible of the connection of the connection of the connection of the connection. Possible of the connection of the connectio	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 14 mm 15 mm 15 mm 16 mm 18 mm ipe. embled) nut and reinf rnal thread G ³ /4".	wall thickness not required. Marbar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS15 FEG3/4CS15 FEG3/4CS15 FEG3/4CS16 FEG3/4CS18 orcing insert. Soft sealing		
		Consisting of one-piece (preass valves with external thread G ³ /4 ¹ Note: Reinforcing insert for copper or operating temperature 90°C, n G ³ /4", 1 pcs. Compression fitting for PEX piece (preasse connection. For valves with external contents of the contents of the connection.	embled) nut. Soft sea ". r soft steel pipe with 1.0 mm nax. operating pressure 10 10 mm 12 mm 14 mm 15 mm 15 mm 16 mm 18 mm ipe. embled) nut and reinf rnal thread G ³ /4".	wall thickness not required. Mailbar. FEG3/4CS10 FEG3/4CS12 FEG3/4CS14 FEG3/4CS15 FEG3/4CS15 FEG3/4CS15 FEG3/4CS16 FEG3/4CS18 orcing insert. Soft sealing		

	FEG3/4PM	Compression fitting for PEX and MULTILAYER pipe.				
		Consisting of one-piece nut with preassembled antitorsion elastic compression ring and one-piece reinforcing insert. For valves with external thread $\rm G^3/_4$ ".				
		Note: Max. operating temperature 90°C, ma	ax. operating pressure	e 10 bar.		
		- · · - · · · · · · · · · · · · · · · ·		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		
	VA5201Axxx	Radiator tailpiece with thread up to	collar			
O.S. Thirming		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)		VA5204B010		
- In the second		thread approx. 50 mm				
Maria and a second		$^{1}/_{2}$ " x 76 mm (for DN15)		VA5204B015		
		thread approx. 65 mm				
		$^{3}/_{4}$ " x 70 mm (for DN20)		VA5204B020		
		thread approx. 60 mm				
	VA3300	Draining adapter				
		for all sizes		VA3300A001		
-	VA8300	Verafix-key				
		for all sizes		VA8300A001		

SERVICE PARTS

VS	S3301A	Cover cap				
		for all sizes		VS3301A001		
VS	S3302A	Sealing ring for cover cap				
		for all sizes		VS3302A001		
VA		Pressure cap – for shutting off valves on radia	tor outlet			
		for valves DN10 ($^{3}/_{8}$ ")		VA2202A010		
		for valves DN15 ($^{1}/_{2}$)		VA2202A015		
BHILL		for valves DN20 (³ / ₄ ")		VA2202A020		
VS	S1300	Exchange valve insert				
		Verafix type		VS1300VF02		
VA	A5090	Sealing ring for pressure cap				
		for valves DN10 ($^{3}/_{8}$ ")		VA5090A010		
		for valves DN15 ($^{1}/_{2}$ ")		VA5090A015		
		for valves DN20 (³ / ₄ ")		VA5090A020		

IDENTIFICATION

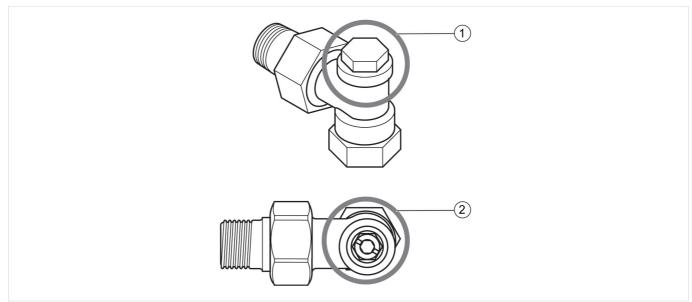
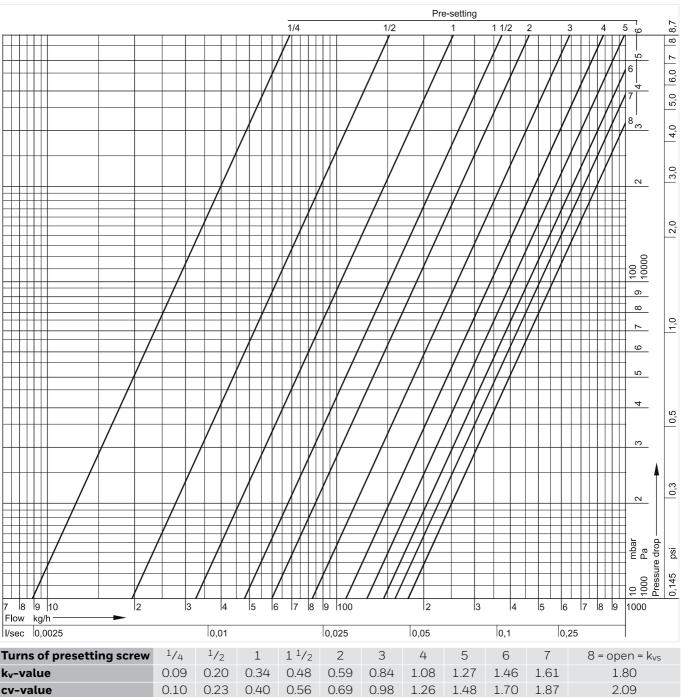


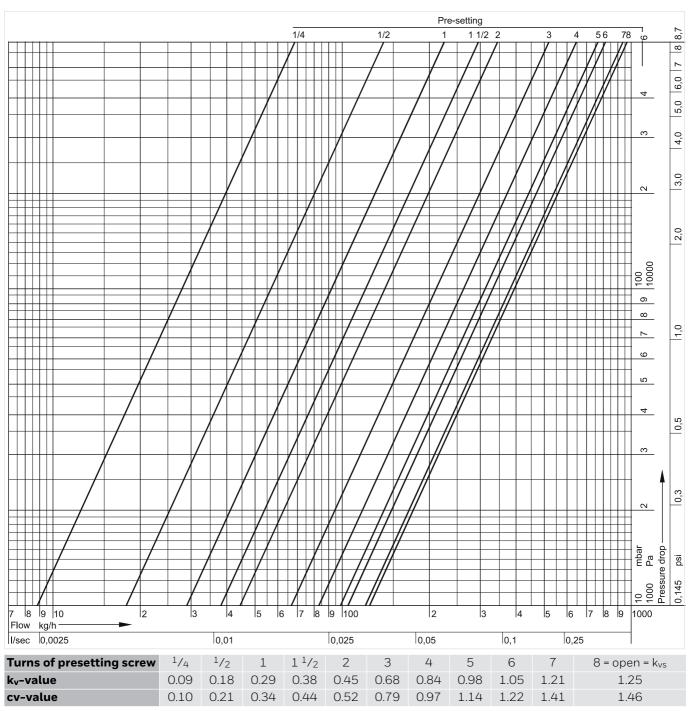
Fig. 6. Identification of Verafix

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

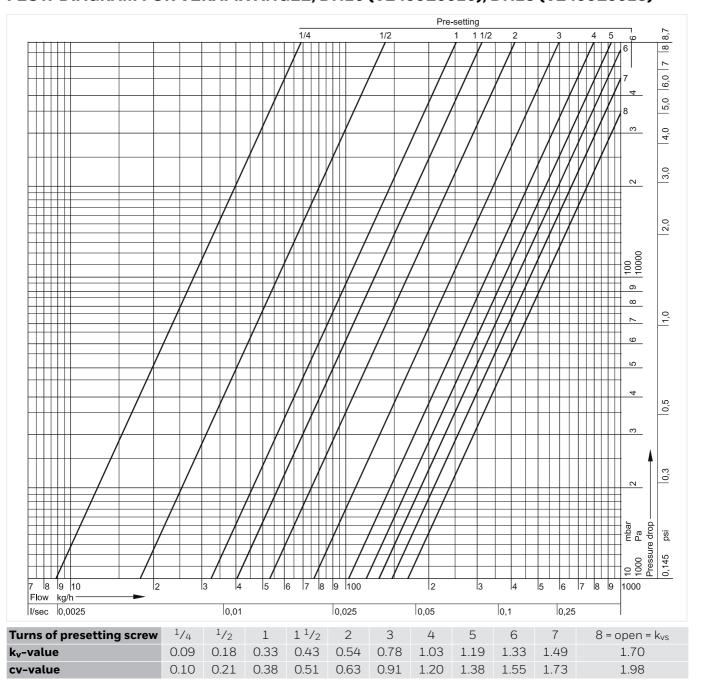
FLOW DIAGRAM FOR VERAFIX ANGLE, STRAIGHT, DN20 (V2400E0020, V2400D0020)



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



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



For more information

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