



V2471

Verafix-VK

Presettable and Drainable H-Block for Compact Radiators

APPLICATION

The V2471 Verafix-VK is a radiator connection valve for 2-pipe heating systems, where compact radiators with a built-in thermostatic insert and a 50 mm-gage bottom connection are used.

It features Resideo's Verafix insert, which enables the regulation of the kv-value and shut-off using an allen key. It also enables radiator draining and filling, facilitated by an adapter, and fail-safe resealing after the draining operation using the brass cap with secondary PTFE sealing ring.

It is available in angled (wall connection) and straight (floor connection) patterns, with the following radiator connection options:

- Y15: For radiators with a G $\frac{3}{4}$ " Euroconus connection per EN 16313, and via a reducing nipple for radiators with a G $\frac{1}{2}$ " internal thread
- X20: For radiators with a G $\frac{3}{4}$ " external thread and flat seal, and using a sealing conus for radiators with a G $\frac{3}{4}$ " Euroconus connection according to EN 16313

On the pipe side, V2471 Verafix-VK has a G $\frac{3}{4}$ " Euroconus interface.

SPECIAL FEATURES

- Accurate k_{vs} regulation for radiator balancing
- Shut-off using a 4 mm allen key
- Optional flow direction. Performance values apply for both directions
- Draining and filling – the standard Verafix draining adaptor available as accessory to facilitate the operation
- Fail-safe resealing after the draining operation
- Fully nickel-plated forged brass
- Wide range of G $\frac{3}{4}$ " Euroconus fittings available for copper, soft steel, plastic and composite pipe
- Self-sealing connections for easy assembly to the radiator
- Standard connection interface on the radiator side, with spare parts compatible across the V2461, V2464ED, V2471, V2473ED, V2474ED, V2495 and V2496 ranges

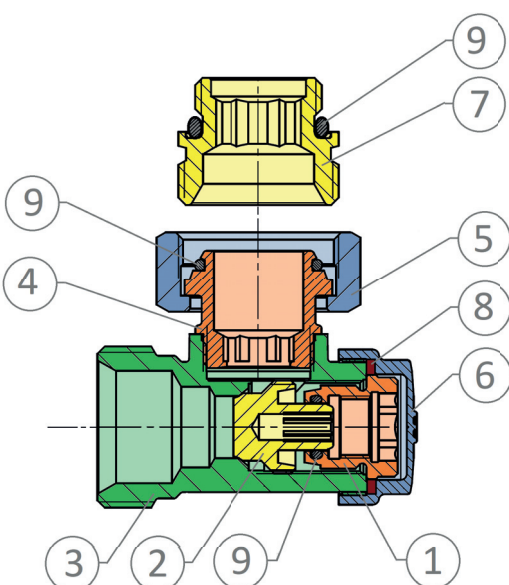


TECHNICAL DATA

Media	
Medium:	Water or glycol-water mixture, according to VDI 2035
pH-value:	8 - 9.5
Connections/Sizes	
Radiator:	G $\frac{1}{2}$ " internal. thread G $\frac{3}{4}$ " external thread and Euroconus according to EN 16313 G $\frac{3}{4}$ " ext. thread and flat seal
Pipe:	G $\frac{3}{4}$ " Euroconus according to EN 16313
Operating temperatures	
Min. operating temperature medium:	-10 °C non-freezing
Max. operating temperature medium:	130 °C
Pressure values	
Max. operating pressure:	PN10, 10 bar (1000 kPa)
Max. differential pressure:	1 bar (100 kPa)
Specifications	
Flow capacity - k_{vs} (cv)- values:	Straight: 1.25* Angled: 1.4*

* at 1 bar Δp

CONSTRUCTION

Overview	Components	Materials
	1 Insert cartridge for radiator draining	Brass
	2 Plunger for regulation and outlet pipe isolation	
	3 Valve body	
	4 Radiator connection	
	5 Radiator coupling	
	6 Cap for fail-safe sealing after draining	
	7 G $\frac{3}{4}$ " to $\frac{1}{2}$ " radiator nipple	PTFE
	8 Secondary seal for fail-safe sealing after draining	
	9 O-rings	EPDM

METHOD OF OPERATION

V2471 Verafix-VK H-blocks are handy connection valves for compact radiators with 50 mm-gage bottom connection.

They enable isolation and removal of the radiator for decoration, for accurate adjustment of the k_{vs} value for static balancing of the radiator within the 2-pipe heating circuit, for draining and filling of the radiator, and for reliable re-sealing of the valve after the draining operation using the brass cap with secondary PTFE seal.

The flow rate is adjusted by a 4 mm Allen key turning the spindle on the regulating valve. The relationship between the number of turns and the flow rate is illustrated in the flow diagram.

V2471 Verafix-VK H-blocks feature Resideo's Verafix insert and are compatible with the standard Verafix draining adapter, which facilitates the draining operation and is indispensable for radiator re-filling. A special tool is necessary to open and close the draining cartridge. This prevents accidental scalding of users.

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	0 °C
Max. ambient temperature:	50 °C
Max. ambient relative humidity:	75 % *

*non condensing

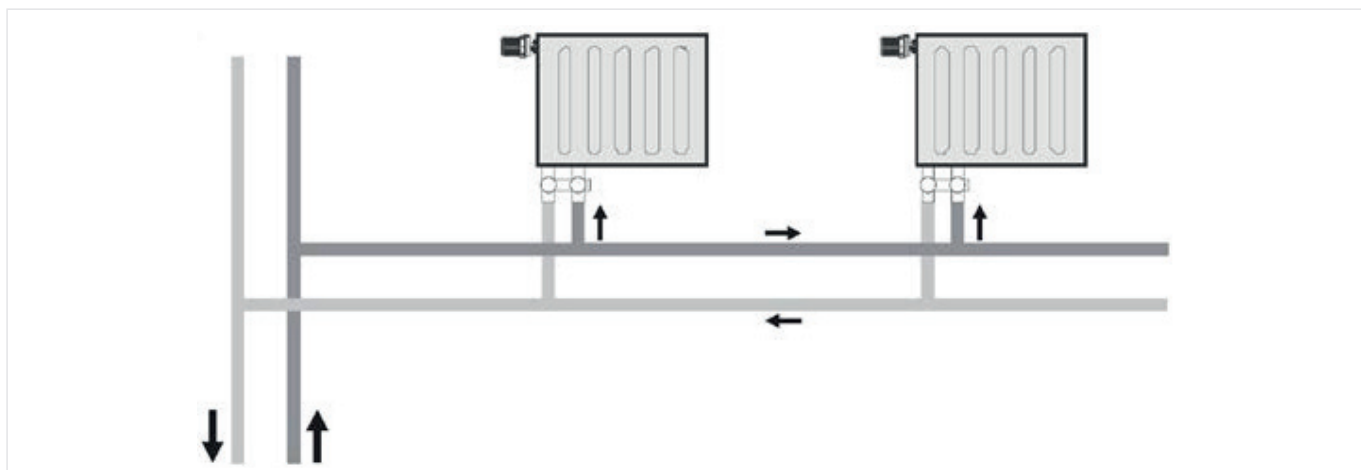
INSTALLATION GUIDELINES

Setup requirements

- To avoid stone deposit and corrosion the composition of the medium should conform with VDI-Guideline 2035
- All additives and lubricants used for heating medium treatment have to be suitable for EPDM seals to avoid their disintegration. Use of mineral oils should be avoided
- For industrial and long-distance energy systems please refer to applicable codes VdTÜV and 1466/AGFW FW 510
- Heavy polluted existing heating systems must be flushed thoroughly before replacing thermostatic valves
- The heating system must be fully deaerated
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Resideo or its subsidiaries manufacturing the Honeywell Home products

Installation Example

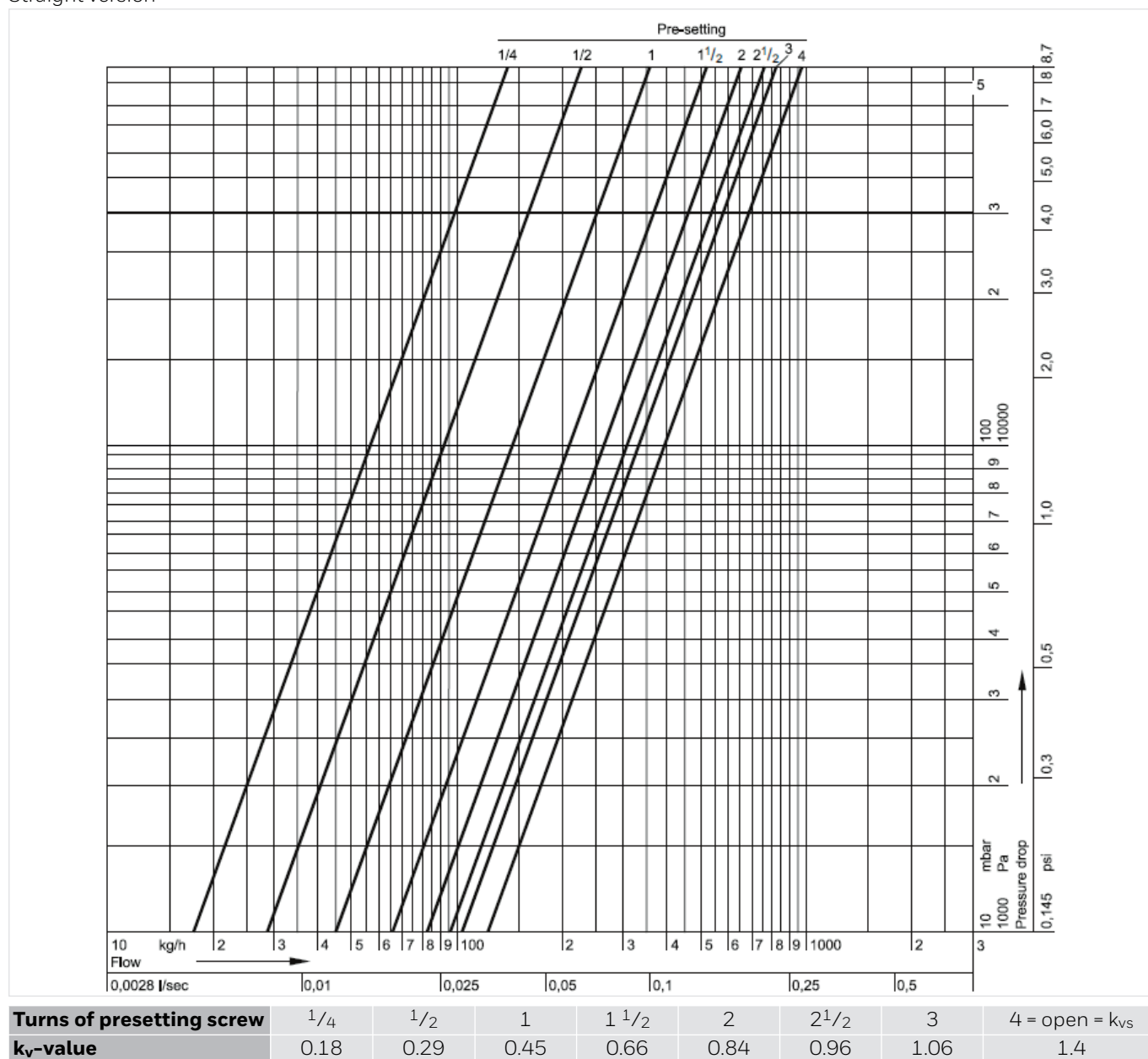
V2471 Verafix-VK can be mounted to all bottom connection radiators – with centre, right and left connection. Flow direction can be freely selected.



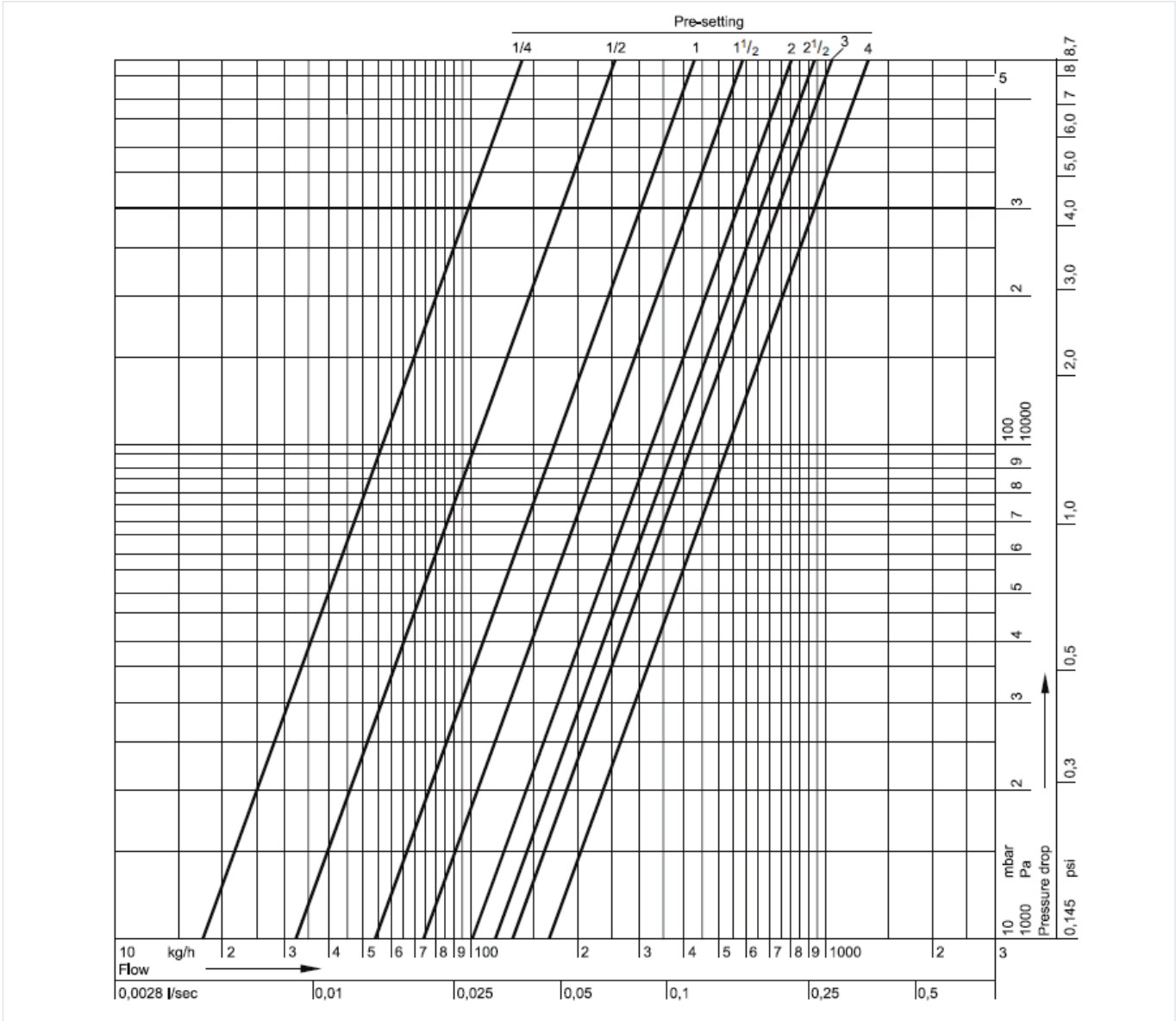
TECHNICAL CHARACTERISTICS

Flow Diagram

Straight version

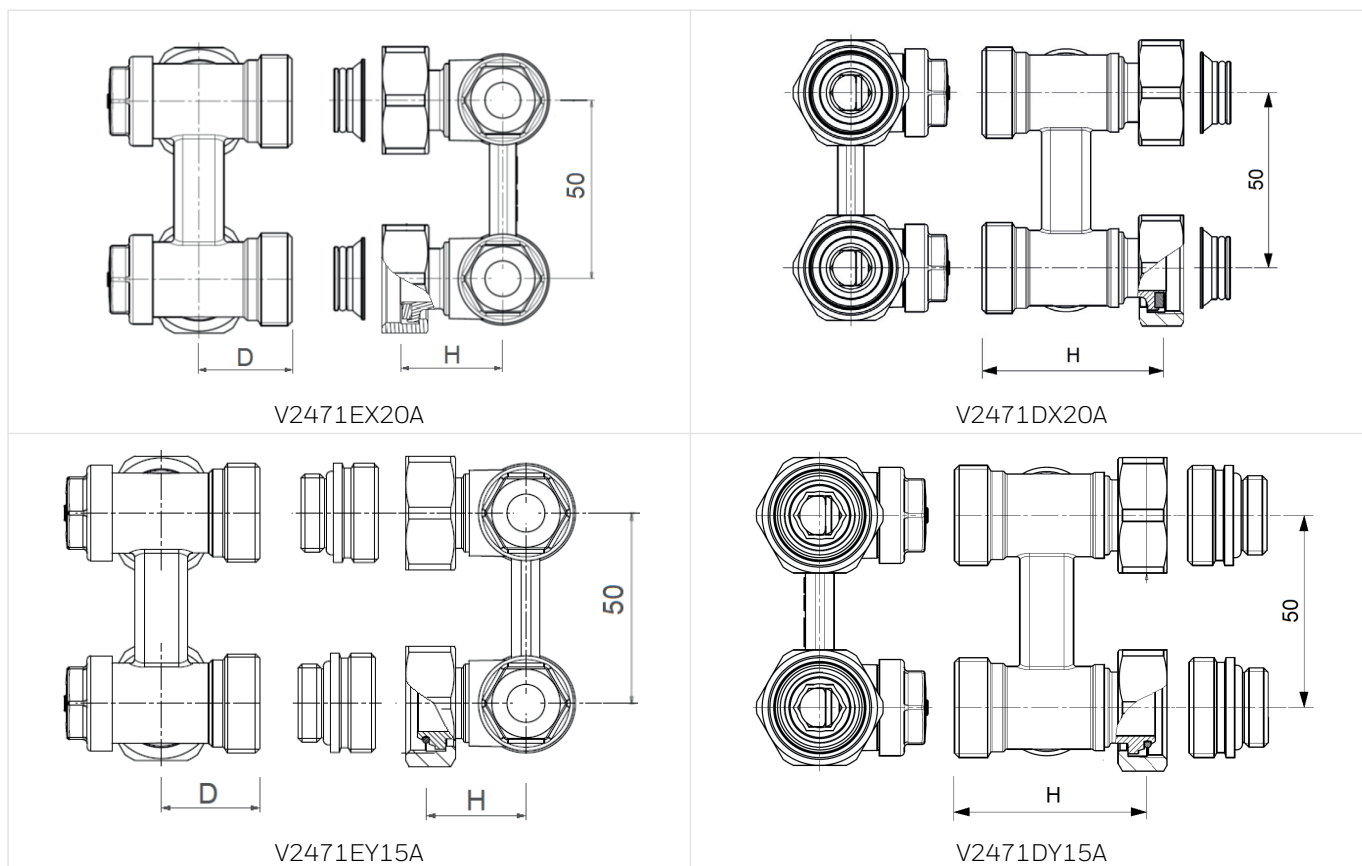


Angled version



Turns of presetting screw	1/4	1/2	1	1 1/2	2	2 1/2	3	4 = open = k _{VS}
k _V -value	0.18	0.33	0.55	0.77	1.03	1.20	1.34	1.4

DIMENSIONS



Type	Pipe connection	Valve body interface on radiator side	Reducing nipple for 1/2" internal thread	Flat seal to Euroconus interface piece	H	D	OS.-No.
Angle (wall connection)	3/4" ext. with Euroconus	3/4" ext. with flat seal	No	Yes	28	26	V2471EX20A
Angle (wall connection)	3/4" ext. with Euroconus	3/4" ext. with Euroconus	Yes	No	28	26	V2471EY15A
Straight (floor connection)	3/4" ext. with Euroconus	3/4" ext. with flat seal	No	Yes	52		V2471DX20A
Straight (floor connection)	3/4" ext. with Euroconus	3/4" ext. with Euroconus	Yes	No	50		V2471DY15A

Note: All dimensions in mm unless stated otherwise.

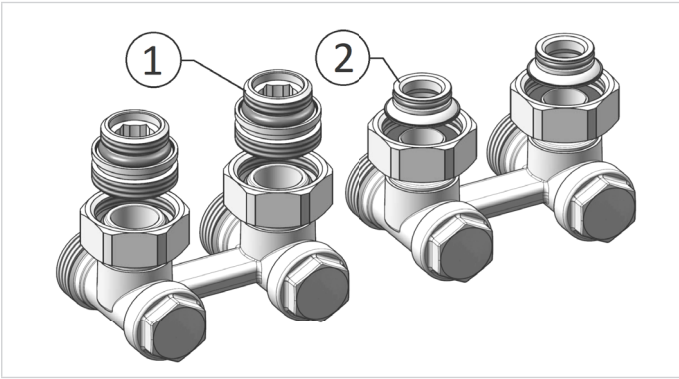
ORDERING INFORMATION

Accessories

	Description	Dimension	Part No.
	FEG3/4CS	Compressions fitting for copper and precision steel pipes	
		One-piece fitting with steel reinforced elastic ring	
	3/4"	10 mm	FEG3/4CS10
	3/4"	12 mm	FEG3/4CS12
	3/4"	14 mm	FEG3/4CS14
	3/4"	15 mm	FEG3/4CS15
	3/4"	16 mm	FEG3/4CS16
	FEG3/4P	Compression fitting for PEX pipe.	
		Consisting of one-piece (preassembled) nut and reinforcing insert. Soft sealing connection. For valves with external thread G ^{3/4} ".	
		Note: Max. operating temperature 90°C, max. operating pressure 10 bar.	
	G ^{3/4} "	12 x 1.1 mm	FEG3/4P12X1.1
	FEG3/4PM	Compression fitting for PEX and MULTILAYER pipe.	
		Consisting of a nut with pre-assembled anti-torsion compression ring and a reinforcing insert.	
	3/4"	14 x 2 mm	FEG3/4PM14X2
	3/4"	16 x 2 mm	FEG3/4PM16X2
	3/4"	16 x 2.2 mm	FEG3/4PM16X2.2
	3/4"	17 x 2 mm	FEG3/4PM17X2
	3/4"	18 x 2 mm	FEG3/4PM18X2
	VA3300	Draining adapter	
			VA3300A001
	VA8300	Special Verafix-key	
			VA8300A001

Spare Parts

Radiator connection V2471

Overview	Description	Dimension	Part No.
	1 Reducing nipple with Euroconus for 1/2" internal thread		
	Pack of 2 pieces for V2471...Y15A and V2495	G ^{3/4} " to G ^{1/2} "	VS3295A015
	2 Flat seal and cone		
	Pack of 2 pieces for V2471...X20A and V2496		VA5096B015

For more information

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