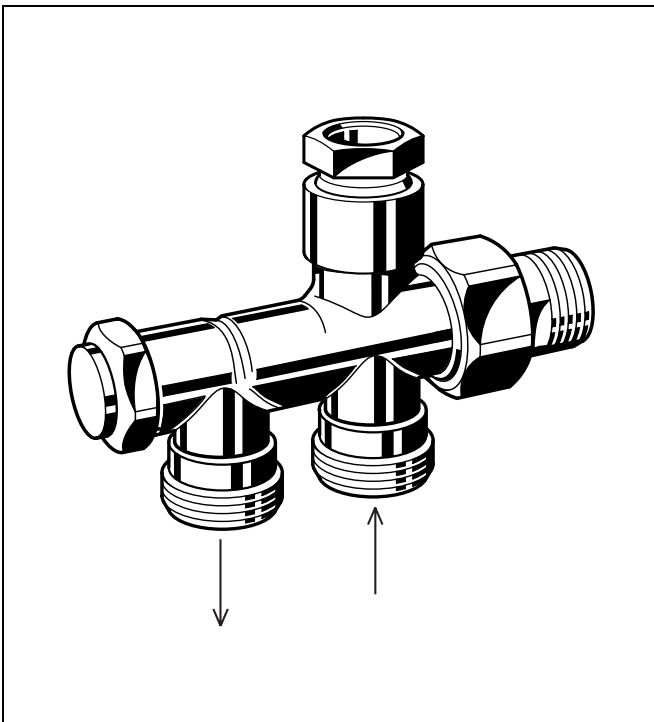


V2202, V2212

Fourway Distribution Valves

CONNECTION VALVES FOR DISTRIBUTION SYSTEMS

PRODUCT DATA



Design

The distribution valve consists of:

- Valve housing PN10, DN15
 - with external threads, or
 - with internal threads to DIN2999 (ISO7) for threaded pipe or copper/precision steel pipe 10...18 mm using compression pipe fittings (see 'Accessories')
- Pre-settable valve insert
- Protection cap
- Union-nut and radiator tailpiece
- Compression ring and nut for Ø15 mm riser tube

Materials

- Valve housing made of nickel-plated red bronze
- Valve insert made of brass with EPDM O-rings and soft seals
- Union-nut, tailpiece and cap made of nickel-plated brass

Application

Fourway distribution valves are used to connect the supply and return of a radiator to the corresponding pipes of a one- or two-pipe heating loop. Individual radiators can be shutoff without effecting or interrupting the water flow of the heating loop.

The V2202 distribution valve is used for one-pipe systems. The radiator proportion is 35%. The V2212 is used for two-pipe systems.

By using distribution valves connections under the floor or in the wall are avoided.

Features

- No connections under the floor necessary
- Shutoff does not affect other radiators in the loop
- Suitable for one-pipe and two-pipe systems
- Supplied with compression ring and nut for riser tube
- Available with R 1/2" internal or G 3/4" external threads

Specifications

Medium	Heating water, water quality to VDI2035	
pH-value	8...9.5	
Operating temperature	Max. 130 °C	
Operating pressure	Max. 10 bar	
k_{vs}(cv)-values	one-pipe	2.10 (2.46)
	two-pipe	1.60 (1.87)
	NOTE: See remark at k _{vs} values	

Function

The Fourway distribution valve supplies incoming heating water to the connected riser tube and heating water returning from the radiator back into the heating circuit. This can be the next radiator or the return pipe to the distribution manifold.

The radiator is shutoff from the heating circuit by closing the valve cartridge. The following radiators in the heating circuit are not affected by this.

Dimensions and Ordering Information

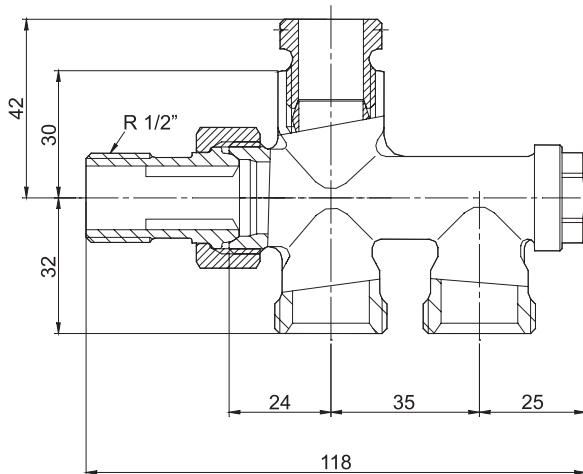


Fig. 1. External threads version

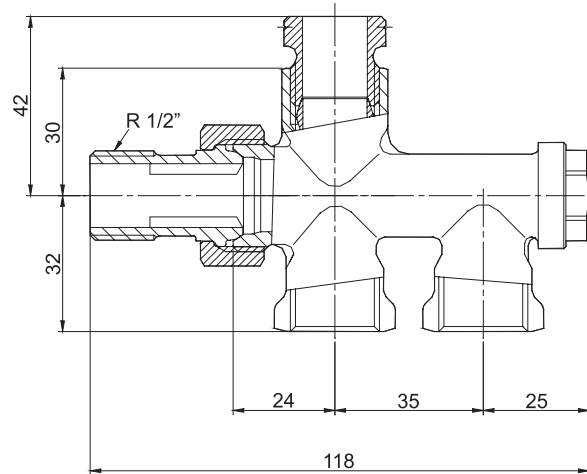


Fig. 2. Internal threads version

NOTE: All dimensions in mm unless stated otherwise.

Table 1. Available versions and OS-Nos (OS=Ordering Specification)

Body type	DN	$k_{vs}(cv)$ -values	OS-No.
Fourway Distribution Valve for one-pipe systems			
External threads	15	2.10	V2202X0015
Internal threads	15	2.10	V2202Y0015
Fourway Distribution Valves for two-pipe systems			
External threads	15	1.60	V2212X0015
Internal threads	15	1.60	V2212Y0015

NOTE: The k_{vs} -value for the one pipe system is valid for a radiator proportion of 35% at a P-band of 3K and in combination with a UBG type TRV body. Other TRV bodies cannot be used for one-pipe systems.
 The k_{vs} -value for the two pipe system is valid for the distribution valve only. The k_{vs} -value of a Fourway Distribution valve/TRV body combination depends on the used TRV body.
 The overall k_{vs} -value is calculated by putting the k_v -value of the distribution valve and the k_v -value of the TRV body in serial connection.







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
- Please contact us if you should have any special requirements or needs






Accessories

Connections for valves with external threads



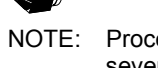
2 Connections for copper and soft steel pipe

	3/4" x 10 mm	VA7200A010
	3/4" x 12 mm	VA7200A012
	3/4" x 14 mm	VA7200A014
	3/4" x 15 mm	VA7200A015
	3/4" x 16 mm	VA7200A016
	3/4" x 18 mm	VA7200A018

2 External connections for plastic pipe

	3/4" x 12 x 2 mm	VA7210A012
	3/4" x 14 x 2 mm	VA7210A014
	3/4" x 16 x 2 mm	VA7210A016
	3/4" x 17 x 2 mm	VA7210A017
	3/4" x 18 x 2 mm	VA7210A018




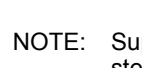
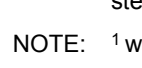
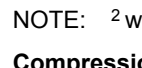
2 External connections for composite pipe, alpex-therm

	3/4" x 14 x 2 mm	VA7220A014
	3/4" x 16 x 2 mm	VA7220A016
	3/4" x 18 x 2 mm	VA7220A018

NOTE: Processing after technical documentation of the several companies

Connections for valves with internal threads

Compression ring and nut with support insert (2 pcs each)



	1/2" x 10 mm	VA621A1510 ¹
	1/2" x 12 mm	VA621A1512
	1/2" x 14 mm	VA621A1514 ¹
	1/2" x 15 mm	VA621A1515
	1/2" x 16 mm	VA621A1516
	1/2" x 18 mm	VA621A1518 ²

NOTE: Support inserts have to be used for copper or soft steel pipe with 1,0 mm wall thickness


NOTE: ¹ without support inserts

NOTE: ² with 2 adapters

Compression ring and nut with support insert for composite pipe (2 pcs each)

	1/2" x 14 mm	VA622B1514
	1/2" x 16 mm	VA622B1516


Chrome-plated precision steel riser tube

	15 x 1 mm, length 1.100 mm	VA2203A110
---	----------------------------	------------


Floor cover for Ø15, 16 and 18 mm pipe

	white	VA2201B015
---	-------	------------


Tailpiece

	with throttle disc	VA5291C015
---	--------------------	------------


Pressure cap – for shutting off valves on radiator outlet

	for valve DN15	VA2202A015
---	----------------	------------

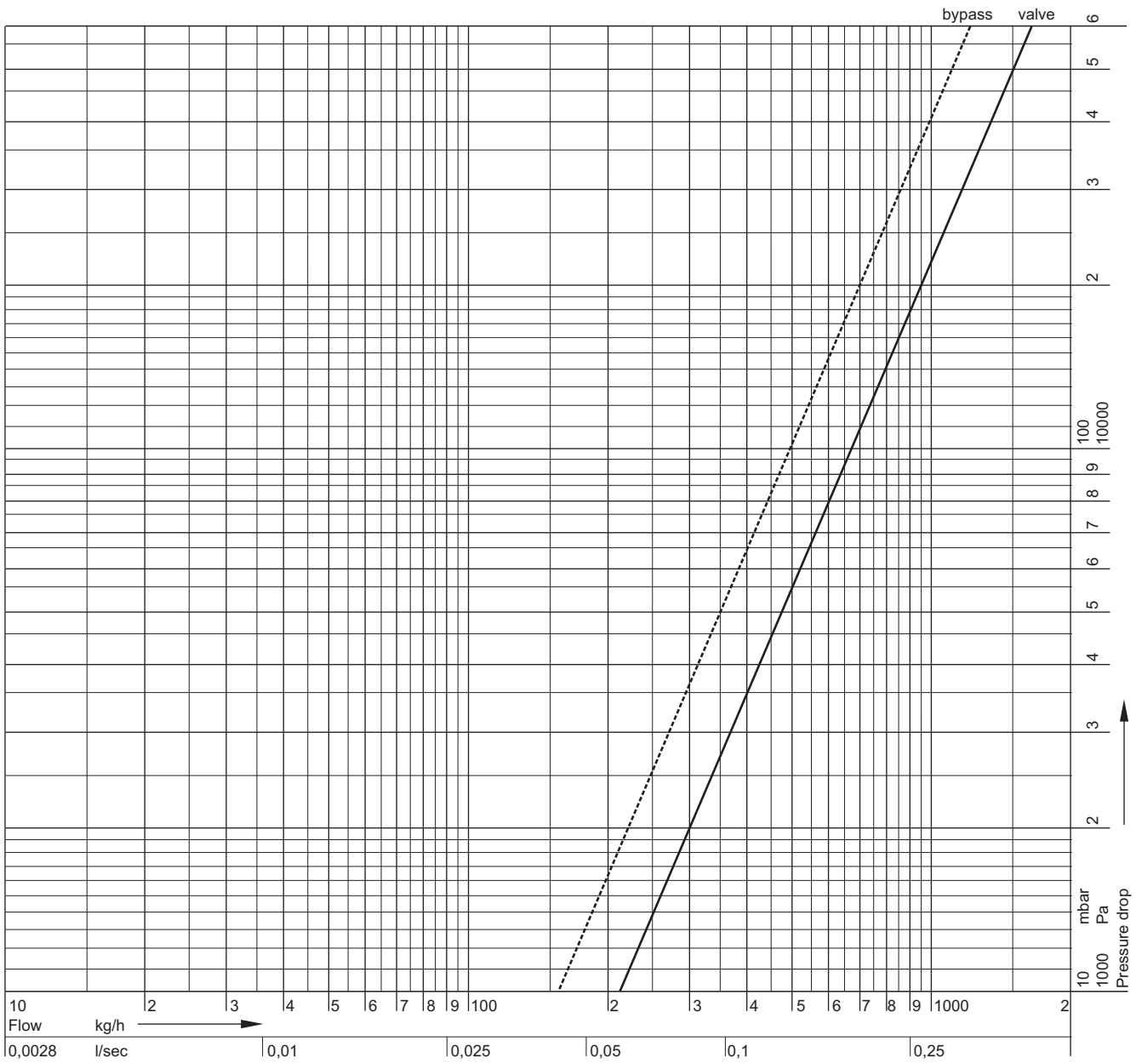
Sealing ring for Pressure cap

	for valve DN15	VA5090A015
---	----------------	------------

Verafix key

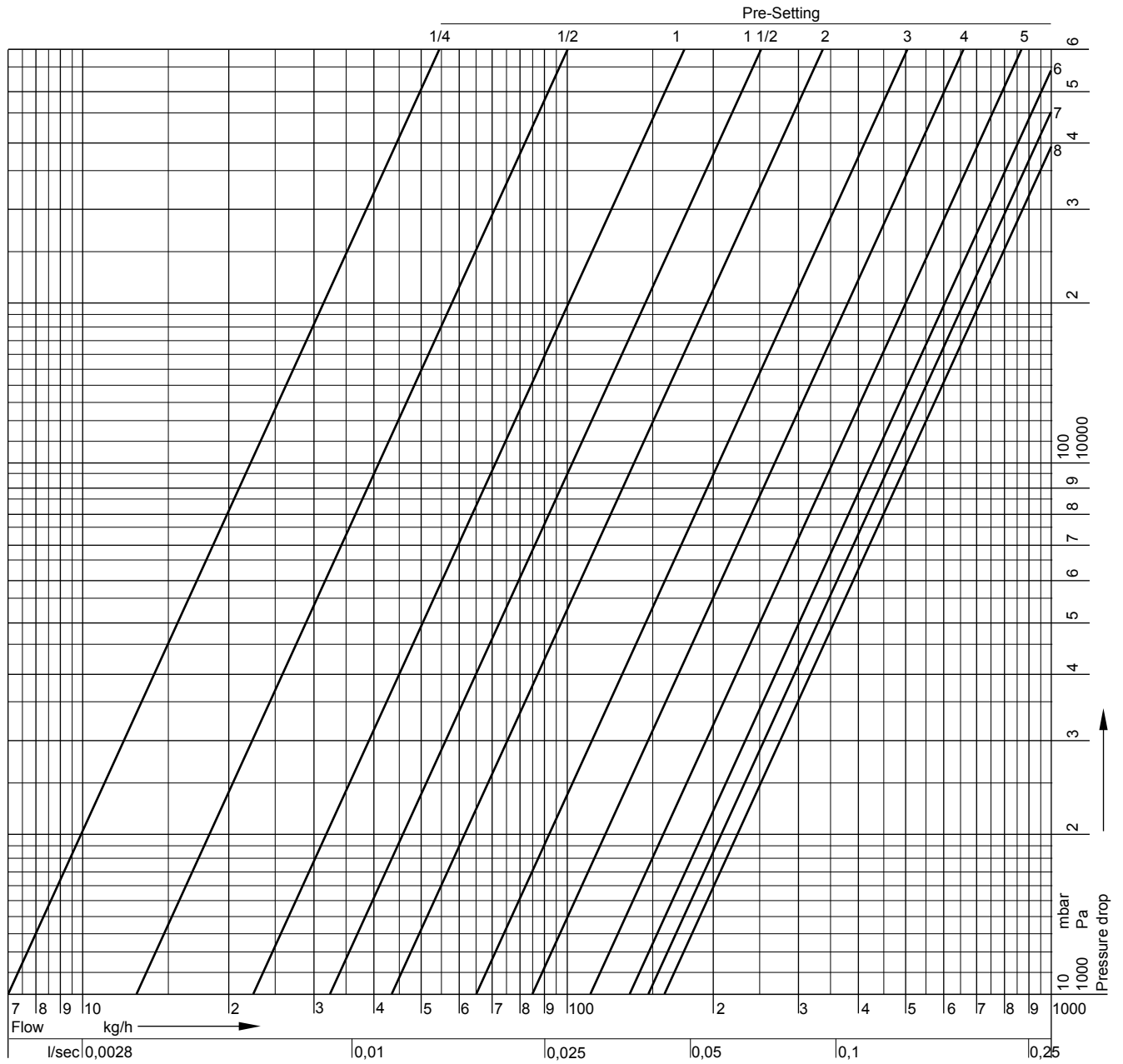
	for all sizes	VA8300A001
---	---------------	------------

Flow Diagram, One-pipe Version (V2202)



Radiator proportion	%	35
k_v(cv)-values		2.1

Flow Diagram, Two-pipe Version (V2212)



Pre-setting	1/4	1/2	1	1 1/2	2	3	4	5	6	7	8 = open
k _v -value	0.07	0.13	0.22	0.32	0.43	0.65	0.85	1.10	1.30	1.45	k _{vs} = 1.60

Automation and Control Solutions

Honeywell GmbH

Hardhofweg

74821 Mosbach, Germany

Phone: +49 (6261) 810

Fax: +49 (6261) 81393

www.honeywell.com

EN0H-2401GE25 R1206
Dezember 2006

© 2006 Honeywell International Inc.
Subject to change • All rights reserved

Manufactured for and on behalf of the Environmental and Combustion
Controls Division of Honeywell Technologies Sàrl, Ecublens,
Route du Bois 37, Switzerland or by its Authorized Representative.

Honeywell