



V2075/V2077

Flowshare Valve

Thermostatic two-way flowshare valve

APPLICATION

Thermostatic flowshare valves control the output of radiators in vertical one-pipe heating systems. Heating water not required is diverted through the bypass into the return. The valve is controlled by a Honeywell Home radiator thermostat. In the starting position the valve is open to the preset value. The radiator share can be preset between 35 and 60 %.

The radiator proportion is supplied with a setting of 35 %.

The valve is suitable for use with all Honeywell Home radiator thermostats with M30 x 1.5 connection.

An additional extension tail, injector and lockshield valve can be installed to avoid heating up of the radiator through the return – see 'Accessories'.

FEATURES

- Stepless, concealed presetting of the flow, factory set at 35 % radiator share
- Quiet operation
- Exchange of valve insert or O-ring insert without draining
- With beige protection cap

SPECIFICATIONS

Medium:	Heating water
pH-value:	8 - 9.5
Max. operating temperature:	130 °C (266 °F)
Max. operating pressure:	10 bar (232 psi)
Max. differential pressure:	0.2 bar (2.9 psi)
k _{VS} -values:	2.1 - 2.7 depending on valve housing
Thermostat thread:	M30 x 1.5
Closing dimension:	11.5 mm
Spec. stroke:	0.22 mm/K

FUNCTION

The Flowshare Valve was designed for use with a radiator thermostat. Depending on the room temperature heating water is partly diverted through the outlet into the radiator and partly through the bypass into the return pipeline. When the room temperature falls the valve is opened by the radiator thermostat and more heating water can flow into the radiator. When the room temperature rises the valve is closed and the heating water is diverted past the radiator into the bypass.



DESIGN

The flowshare valve consists of:

- Valve housing PN10 with externally threaded connections for pipe, bypass and radiator
- Presettable valve insert
- Protection cap

MATERIALS

- Valve housing made of red bronze
- Valve housing made of brass with EPDM O-rings
- Spindle made of stainless steel
- Protection cap made of beige plastic

DIMENSIONS

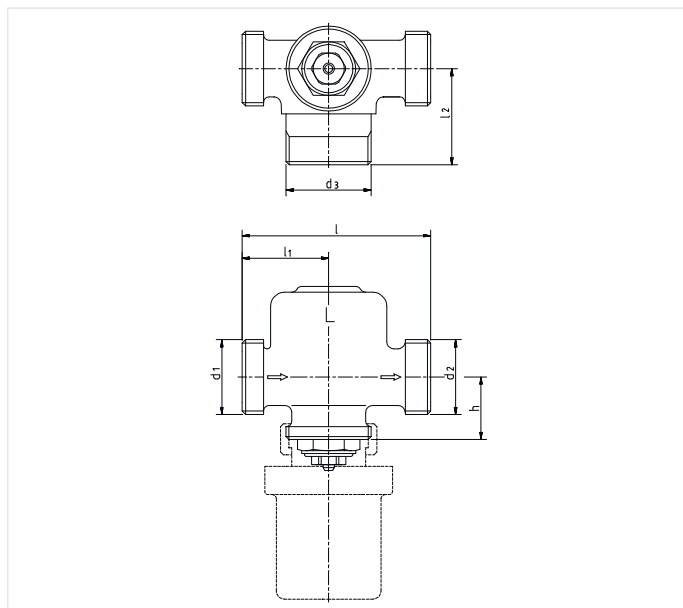


Fig. 1. Version for connection on the left

Note: Valve is supplied without radiator thermostat but with protection cap.

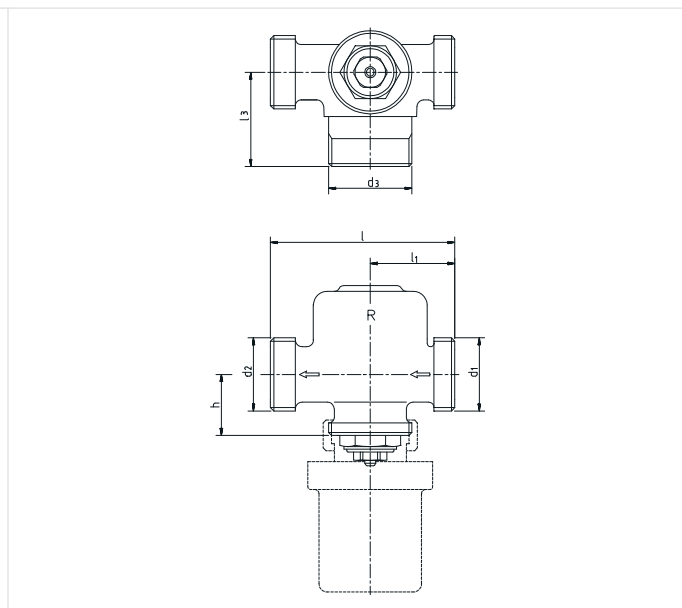


Fig. 2. Version for connection on the right

Tab. 1 Dimensions

DN	l	l1	l2	d1	d2	d3	h
10	63.0	29.0	31.5	G 1/2" AG	G 3/4" AG	G 3/4" AG	22.0
15	65.5	30.5	34.0	G 3/4" AG	G 3/4" AG	G 7/8" AG	22.0
20	73.5	36.5	39.5	G 1" AG	G 1" AG	G 1 1/8" AG	31.0

Note: All dimensions in mm unless stated otherwise.

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


ORDERING INFORMATION

Tab. 2 Available versions and OS-Nos (OS=Ordering Specification)



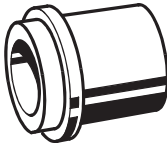
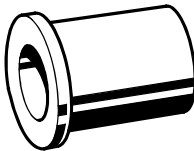

Version	Dimensions	Radiator proportion	k _{VS} -value	OS-No.
Connection on the left	3/8"	35 - 60 %	2.1	V2075L0010
	1/2"	35 - 60 %	2.1	V2075L0015
	3/4"	35 - 60 %	2.7	V2075L0020
Connection on the right	3/8"	35 - 60 %	2.1	V2075R0010
	1/2"	35 - 60 %	2.1	V2075R0015
	3/4"	35 - 60 %	2.7	V2075R0020
Two-way Flowshare Valve for Forster type heating systems				
Connection on the left	1/2"	35 - 60 %	2.1	V2077L0015
Connection on the right	1/2"	35 - 60 %	2.1	V2077R0015

Note: Valves are supplied without union nuts but with three sealing rings.




ACCESSORIES

	Description	Dimension	Part No.
	VA8203 Presetting key tool to change radiator proportion		
			VA8203A001


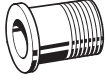

Connections for the valve inlet

	VA5920 Internally threaded nickel-plated brass tailpiece, flat sealing		
		1/2"	VA5920A015
		3/4"	VA5920A020
	VA5004 Brass union-nut		
	for valves DN10		VA5004A012
	for valves DN15		VA5000A015
	for valves DN20		VA5000A020
	VA5530 Brass soldering tailpiece		
	for valves DN15	15 mm	VA5530A015
	for valves DN20	22 mm	VA5530A020
	VA5540 Steel welding tailpiece, flat sealing		
	for valves DN15	1/2"	VA5540A015
	for valves DN20	3/4"	VA5540A020
	VA6291 Adapter with olive connection		
			VA6291A300

Connections for the valve bypass



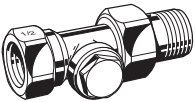


	VA5004 Brass union-nut		
	for valves DN15	7/8"	VA5004A078
	for valves DN20	1 1/8"	VA5004A118
			VA5000A020
	VA5921 Internally threaded brass tailpiece		
	for valves DN10	3/8"	VA5921A010
	for valves DN15	1/2"	VA5921A015
	for valves DN20	3/4"	VA5921A020
	VA6291 Adapter with olive connection		
			VA6291A360

Connections for the valve outlet

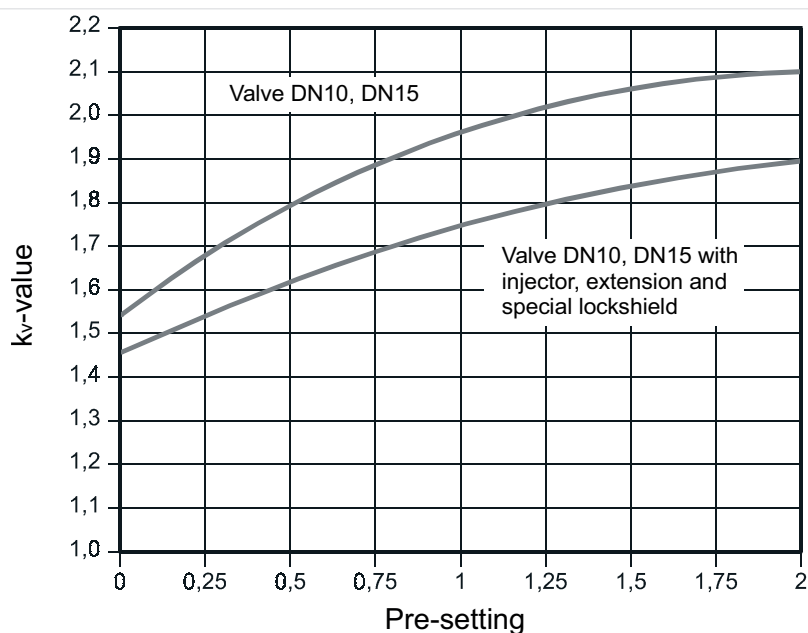
	VA5000A	Brass union-nut		
		for valves DN10 and DN15		VA5000A015
		for valves DN20		VA5000A020
	VA5500	Externally threaded brass tailpiece		
		for valves DN15	1/2"	VA5500A015
		for valves DN20	3/4"	VA5500A020
	VA5901	Reduction adapter		
		for valves DN20 and radiators with 1/2" connection		VA5901A015

Accessories to avoid heating up through the return

Note: k_{VS} -value of the combination is reduced, see flow diagrams.

	VA3090	Sealing set (3 pcs, no fig.)		
		DN15		VA3090C015
		DN20		VA3090C020
	VA5990	Injector for installation in the bypass pipe		
			1/2"	VA5990A015
			3/4"	VA5990A020
	VA5910	Extension tailpiece		
		for valves DN10 and DN15	1/2"	VA5910A015
		for valves DN20	3/4"	VA5911A020
	V2421	Special-lockshield		
			1/2"	V2421D0015
			3/4"	V2421D0020
	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
	VA5090	Sealing ring for pressure cap		
		for valves DN10 (3/8")		VA5090A010
		for valves DN15 (1/2")		VA5090A015
		for valves DN20 (3/4")		VA5090A020

FLOW DIAGRAM DN10 AND DN15 - 2 K



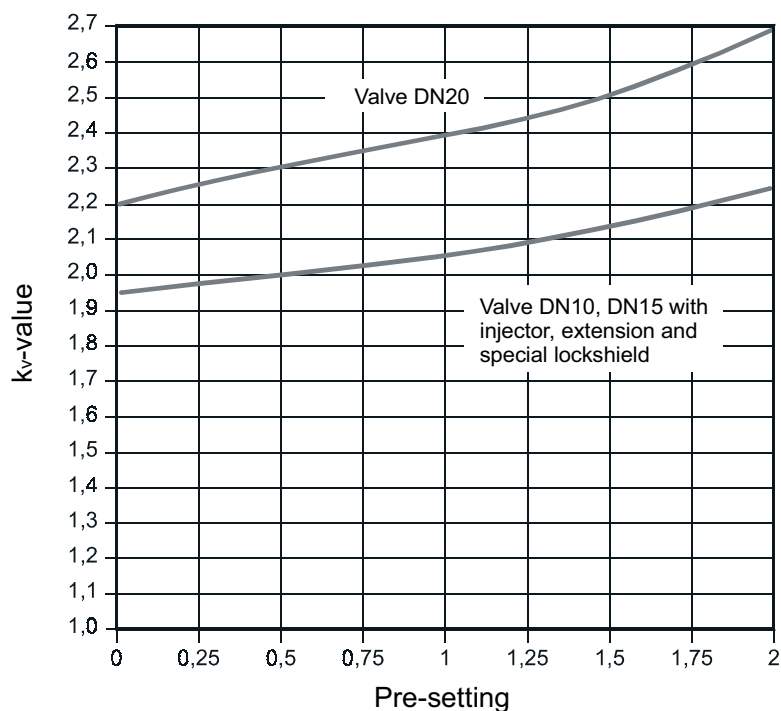
Tab. 3 k_v -values and radiator proportion for DN10 and DN15

Presetting	closed	P-Deviation						open	
		1 K		2 K		3 K			
		k _v	%	k _v	%	k _v	%	k _v	%
0	1.10	1.20	27	1.40	44	1.55	60	1.55	65
0.5	1.40	1.50	22	1.60	39	1.80	50	1.84	58
1	1.50	1.70	20	1.80	35	1.95	44	1.95	51
1.5	1.60	1.80	18	1.90	31	2.07	39	2.07	46
2	1.70	1.90	15	2.00	27	2.10	35	2.16	42

Tab. 4 k_v -values and radiator proportion for DN10 and DN15 with special lockshield, tailpiece and injector

Presetting	closed	P-Deviation						open	
		1 K		2 K		3 K			
		k _v	%	k _v	%	k _v	%	k _v	%
0	1.06	1.15	25	1.32	40	1.45	55	1.45	60
0.5	1.32	1.40	20	1.49	35	1.65	46	1.67	53
1	1.40	1.59	19	1.64	32	1.75	41	1.75	47
1.5	1.50	1.64	17	1.72	30	1.85	36	1.85	43
2	1.60	1.70	15	1.80	27	1.90	32	1.90	39

FLOW DIAGRAM DN20



Tab. 5 k_v -values and radiator proportion for DN20

Presetting	closed	P-Deviation						open	
		1 K		2 K		3 K		k_v	%
		k_v	%	k_v	%	k_v	%	k_v	%
0	1.40	1.60	23	1.90	41	2.20	50	2.60	70
0.5	1.50	1.76	21	2.02	38	2.32	47	2.70	67
1	1.60	1.86	19	2.13	34	2.38	43	2.75	64
1.5	1.70	1.95	17	2.23	30	2.51	39	2.85	61
2	1.80	2.10	15	2.40	27	2.70	35	3.10	58

Tab. 6 k_v -values and radiator proportion for DN20 with special lockshield, tailpiece and injector

Presetting	closed	P-Deviation						open	
		1 K		2 K		3 K		k_v	%
		k_v	%	k_v	%	k_v	%	k_v	%
0	1.32	1.49	22	1.72	39	1.93	47	2.18	67
0.5	1.40	1.61	20	1.80	35	2.00	44	2.24	64
1	1.50	1.69	18	1.88	31	2.05	40	2.27	61
1.5	1.60	1.75	16	1.95	28	2.13	36	2.32	68
2	1.70	1.86	14	2.06	25	2.24	32	2.45	55

For more information

homecomfort.resideo.com/europe



Ademco 1 GmbH
Hardhofweg 40
74821 MOSBACH
GERMANY
Phone: +49 6261 810
Fax: +49 6261 81309

Manufactured for and on behalf of the
Pittway Sàrl, La Pièce 4, 1180 Rolle, Switzerland
by its Authorised Representative Ademco 1 GmbH
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