# Honeywell Home Radiator Valves and Thermostats

# V94 Series

Lockshield Valves

Connections for heat exchangers, PN10, flat sealing

# APPLICATION

V94 Series Lockshield Valves are used in the supply and return of heat exchangers in hydronic cooling and heating systems. They have the following functions:

- Shut-off: by closing the valve the flow through the heat exchanger is shut-off.
- Pre-setting: the flow through the heat exchanger can be throttled to meet system requirements

V9400 in DN15 (kvs 1,45) also supports draining over the valve when a draining adapter is used (accessory, not supplied with the valve).

The valves have flat sealing external threads on inlet and outlet. Refer to chapter 'Accessories' further below for suitable union nuts and tailpieces.

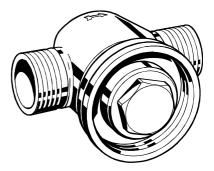
# FEATURES

- Robust, noise and flow optimised valve housing made of corrosion resistant red bronze
- Available with various k<sub>vs</sub>-values
- Optional flow direction
- Shut-off and pre-setting functions
- V9400 also with draining function

# SPECIFICATIONS

Medium:	Water or glycol-water mixture
pH-value:	8 - 9.5
Operating temperature:	2130 °C (36266 °F)
Operating pressure:	max. 10 bar (156 P.S.I.)
k <sub>vs</sub> (c <sub>vs</sub> )-value:	1.75.0 (1.985.81) see Table 2
Leakage rate:	0.02 % of k <sub>vs</sub> -value
Rangeability:	50:1





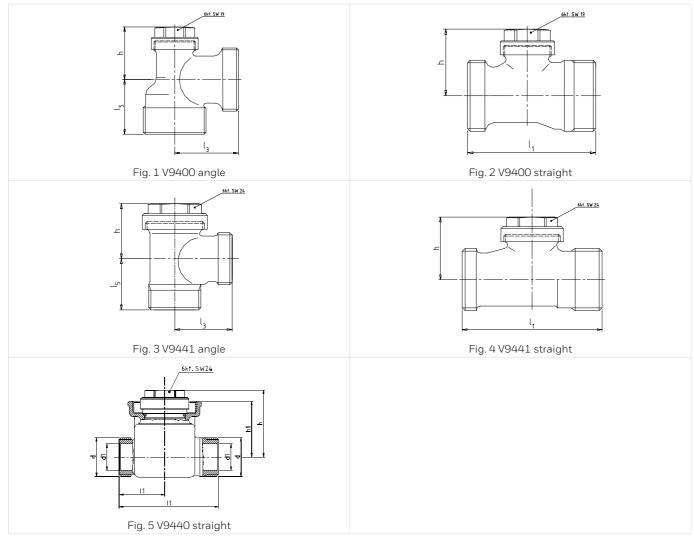
#### DESIGN

- Valve housing PN10, DN15 with <sup>3</sup>/<sub>4</sub>" external threads, DN20 with 1" external threads or DN25 with 1<sup>1</sup>/<sub>4</sub>" external threads, flat sealing
- Valve insert
- Protection cap

#### MATERIALS

- Valve housing made of red bronze RG5 according to DIN 1705 (G-CuSn5ZnPb), V9400 additionally matt nickelplated
- Valve insert made of brass with EPDM O-rings
- Protection cap made of brass with Teflon sealing, V9400 additionally nickel-plated

# DIMENSIONS



#### Tab. 1 Dimensions

Item:	DN:	Connection:	I1:	I3:	I5:	h:	Spanner size cap:
V9400 angle	15	1/2"	-	29	26	25	19
	20	3/4"	-	34	29	29	19
V9400 straight	15	1/2"	51	-	-	32	19
	20	3/4"	59	-	-	32	19
V9441 angle	15	1/2"	-	29	26	28	24
V9441 straight	15	1/2"	66	-	-	33	24
V9440 straight	20	1"	75	-	-	45	24

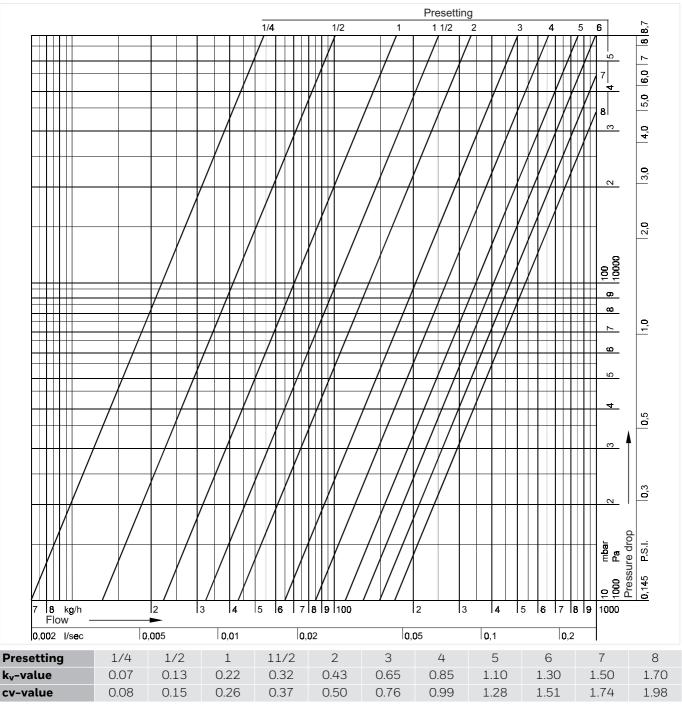
Note: All dimensions in mm unless stated otherwise.

## **ORDERING INFORMATION**

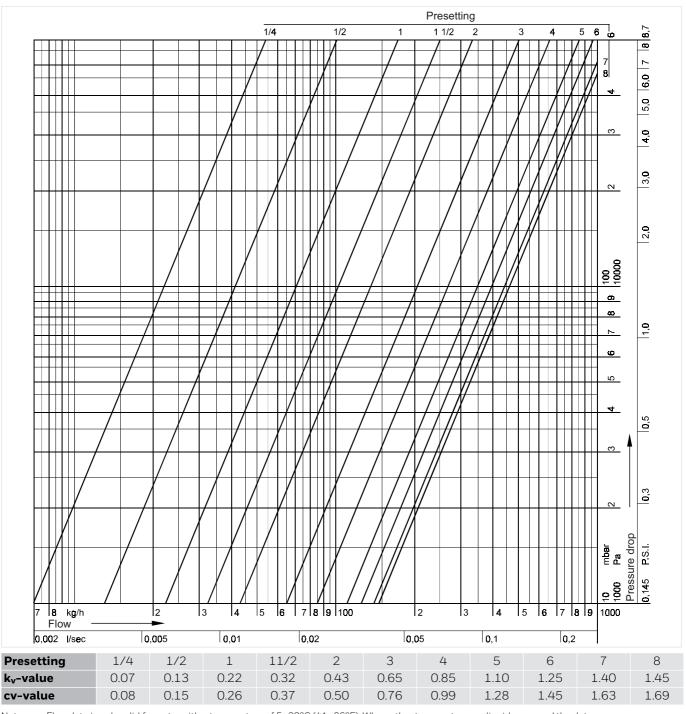
Туре	Version	DN	k <sub>vs</sub> -value	cv-value	OS-No.
V9400	angle	15	1.7	1.98	V9400EX015
	angle	20	1.7	1.98	V9400EX020
	straight	15	1.45	1.69	V9400DX015
	straight	20	1.50	1.74	V9400DX020
V9441	angle	15	4.0	4.65	V9441EX015
	straight	15	2.2	2.56	V9441DX015
V9440	straight	20	5.0	5.81	V9440DX020

# ACCESSORIES

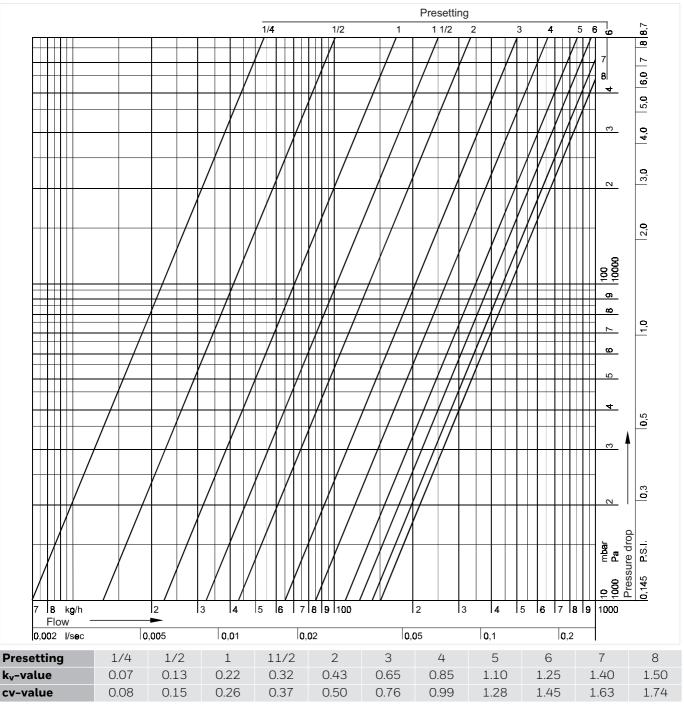
	Descriptio	n	Dimension	Part No.			
	VA5500	Externally threaded brass tailpiece, flat sealing					
		$^{3}$ /8", for valves DN10		VA5500A010			
		$^{1}/_{2}$ ", for valves DN15		VA5500A015			
		<sup>3</sup> /4" for valves DN20		VA5500A020			
	VA5090	PTFE sealing ring					
0		for valves DN10		VA5090A010			
		for valves DN15		VA5090A015			
		for valves DN20		VA5090A020			
	VA5930	Brass soldering tailpiece, flat sealing					
		12 mm, for valves DN10	12 mm	VA5930A012			
		15 mm, for valves DN15	15 mm	VA5930A015			
~		22 mm, for valves DN20	22 mm	VA5930A020			
	VA3300	Draining adapter					
				VA3300A001			
	VA8300	Special tool					
		for V9400		VA8300A001			



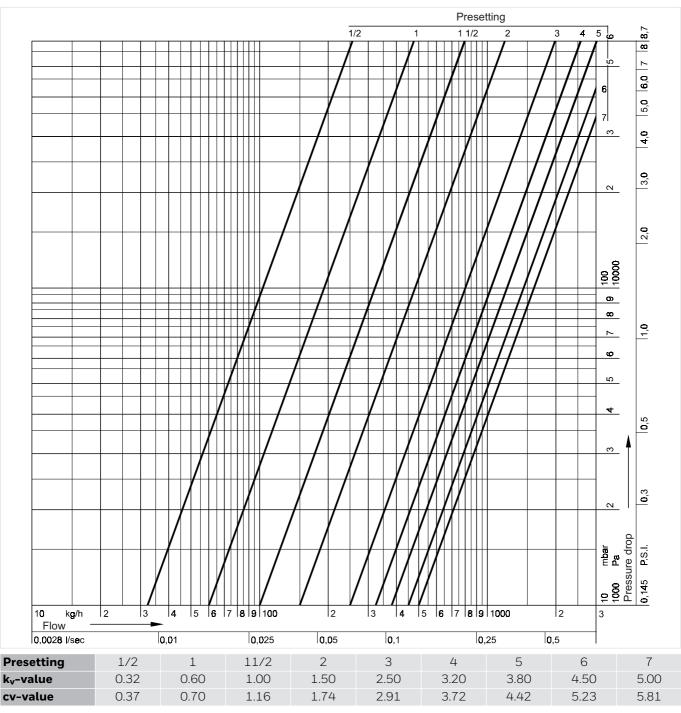
#### FLOW DIAGRAM V9400 ANGLE, DN15 AND DN20



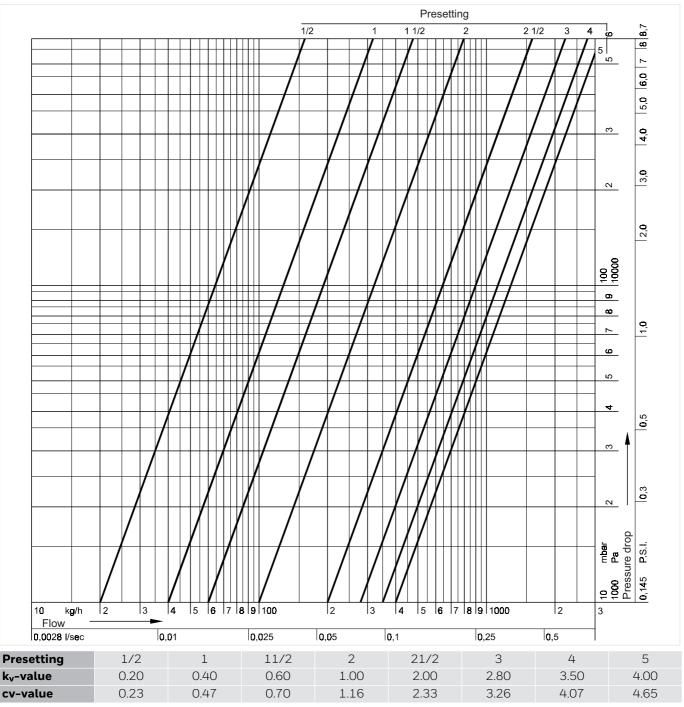
#### FLOW DIAGRAM V9400 STRAIGHT, DN15



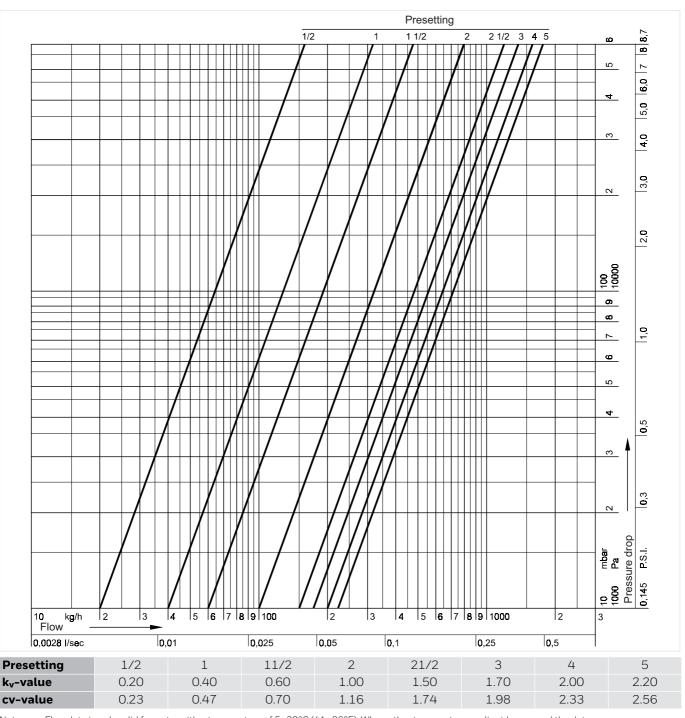
FLOW DIAGRAM V9400 STRAIGHT, DN20



## FLOW DIAGRAM V9440 AND V9441 ANGLE



**FLOW DIAGRAM V9441 ANGLE** 



#### **FLOW DIAGRAM V9441 STRAIGHT**

Note: Flow data is only valid for water with a temperature of 5...30°C (41...86°F). When other temperatures or liquids are used the data may vary – see Reference Sheet 'Calculation of Flow Data' (ENOH-0221GE25).

#### For more information

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