

V5032

Kombi-2-plus

Manual double regulating balancing valve

APPLICATION

The V5032 Kombi-2-plus is a static, variable orifice separate double regulating balancing valve for the return with additional shut-off function.

It is suitable for use in variable and constant flow systems to manually balance the flow and to set resistances to an equal level all over the system.

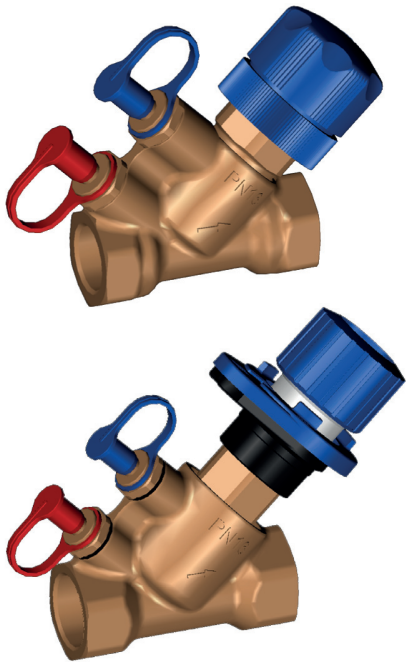
V5032 Kombi-2-plus is typically used for static balancing of fan coil units, air handling units, chilled ceilings and two-pipe heating systems. It can be installed on the flow or the return side, general installation behaviour is to install it on the return side.

SPECIAL FEATURES

- Manual balancing of flow rates
 - Precise presetting with numeric scale
 - Concealed presetting prevents unwanted operation
- Wide range of application
 - Sizes DN10 up to DN80
 - Versions for standard and low flow rates available
- Easy commissioning
 - Fast and safe measurement with SafeCon™ measuring connections – 6 times faster than standard Binder connections
 - DN size and settings readable on handwheel even with insulated valve
 - All functions located on one side for easier access and use
 - Optimal measuring in combination with Honeywell BasicMes (VM242) - all flow values are already included in the measuring device
- Maintenance friendly
 - Insert fully interchangeable
 - Integrated shut-off function
 - Presetting is not changed during shut-off

VALVE EFFICIENCY

	low					high				
Energy efficiency	●	●	●	○	○	○	○	○	○	○
Commissioning effort	●	●	●	●	●	●	●	●	●	●
Calculation effort	●	●	●	●	●	○	○	○	○	○



TECHNICAL DATA

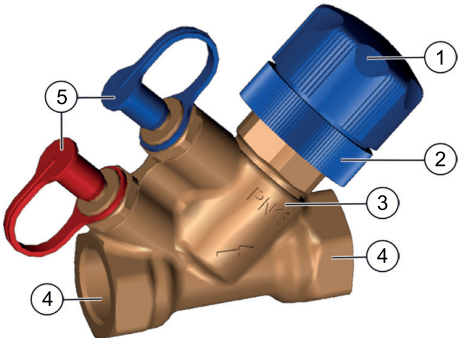
Media	
Medium:	Water or water-glycol mixture, quality to VDI 2035 (up to 50 % Glycol)
pH-value:	8...9.5
Pressure values	
Max. operating pressure:	max. 16 bar (232 psi)
Operating temperatures	
Max. operating temperature medium:	-20...130 °C (-4...266 °F)*
Connections/Sizes	
Nominal size:	DN10 - DN80
Specifications	
Housing:	DN10 - DN50: Dezincification-resistant brass DN65 - DN80: Red bronze
k _{VS} (C _{VS})-value:	See the flow data charts

* for water-glycol mixtures to VDI 2035 max. temperature 110 °

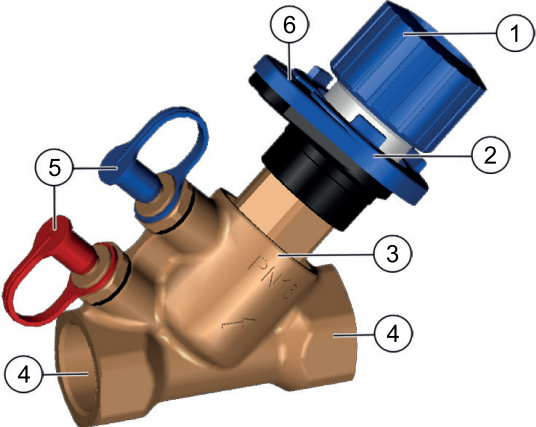
Note: Water with temperature above 100 °C can only be used for heating systems

CONSTRUCTION

V5032BLF

Overview	Components	Materials
	1 Handwheel for the shut-off function	Plastic
	2 Concealed presetting with numeric display	Plastic
	3 Valve housing with internal threads to DIN EN 10226-1 for threaded pipe and two G ¹ / ₄ " connections equipped with SafeCon™ pressure test valves	Dezincification-resistant brass
	4 Two SafeCon™ measuring connections	Brass and plastic
	5 SafeCon™ pressure test valve with colour marked protection cap	Rubber
	Not depicted components:	
Valve insert		Brass
O-rings and soft seals		EPDM
Installation and setup instructions		Available from the Honeywell online catalogue

V5032B

Overview	Components	Materials
	1 Handwheel with presetting dial and display	DN15 - DN50: Plastic DN65 - DN80: Steel
	2 Concealed presetting	Plastic
	3 Valve housing with internal threads to DIN EN 10226-1 for threaded pipe and two G ¹ / ₄ " connections equipped with SafeCon™ pressure test valves	DN15 - DN50: Dezincification-resistant brass DN65 - DN80: Red bronze
	4 Two SafeCon™ measuring connections	Brass and plastic
	5 SafeCon™ pressure test valve with colour marked protection cap	Rubber
	6 Numeric display of presetting	Plastic
Not depicted components:		
Valve insert with shut-off function		Brass
Seat sealing		PTFE
O-rings and soft seals		EPDM
Installation and setup instructions		Available from the Honeywell online catalogue

METHOD OF OPERATION

The V5032 valves are usually installed in the return pipeline. Based on the required flow rate the valve is preset to a certain value by turning the presetting clockwise (increasing the presetting) or anticlockwise (decreasing the presetting). Required presetting value can be determined by using tables further below, by using a sizing tool, by measuring or directly from design documentation. The required flow at full load is normally calculated in advance by a consultant or similar specialist and must be known for system balancing.

Valve Identification

Each valve is marked as follows:

- OS - Number
- DN size
- PN rating
- Flow arrows
- Serial number/date code

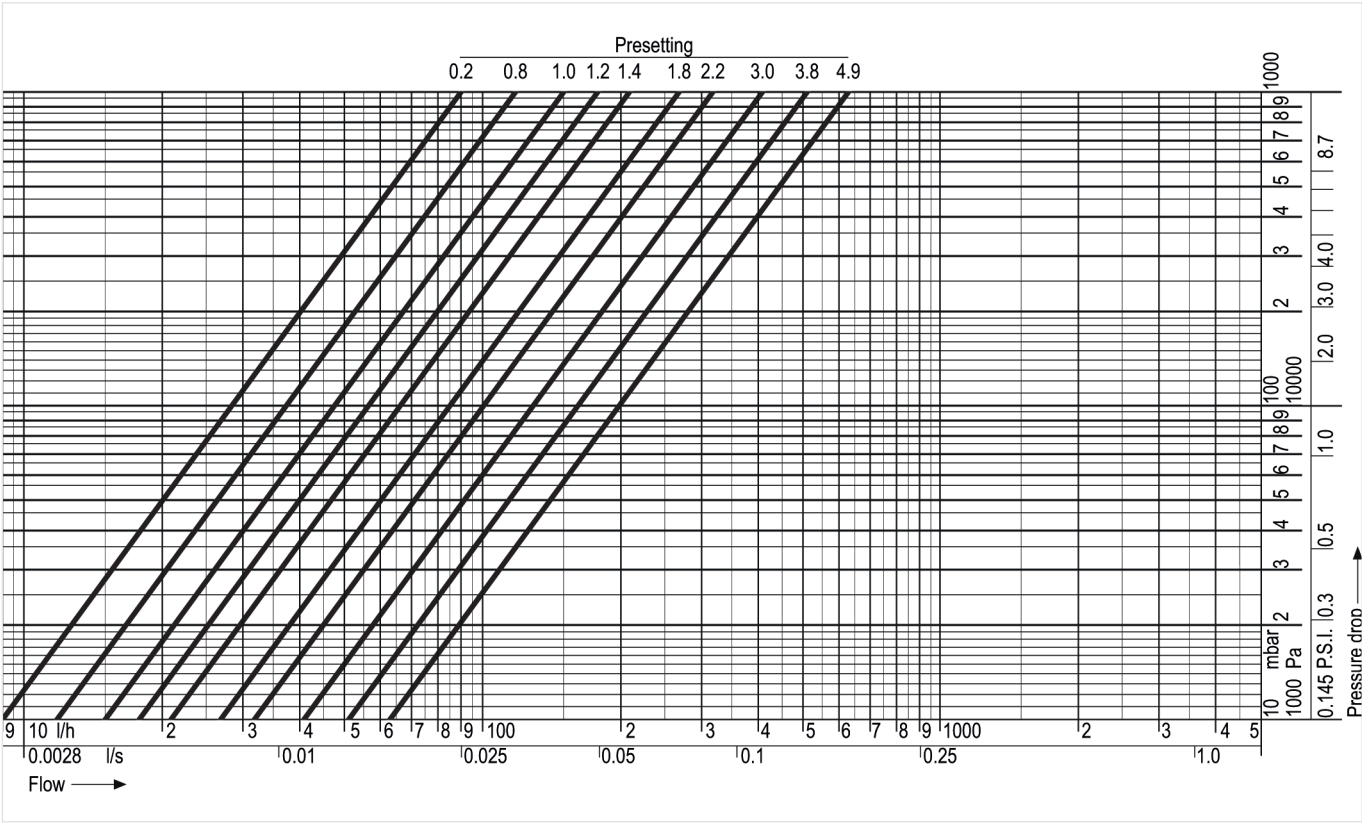
INSTALLATION GUIDELINES

Setup requirements

- 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

TECHNICAL CHARACTERISTICS

Flow Data V5032B, DN10



Presetting values

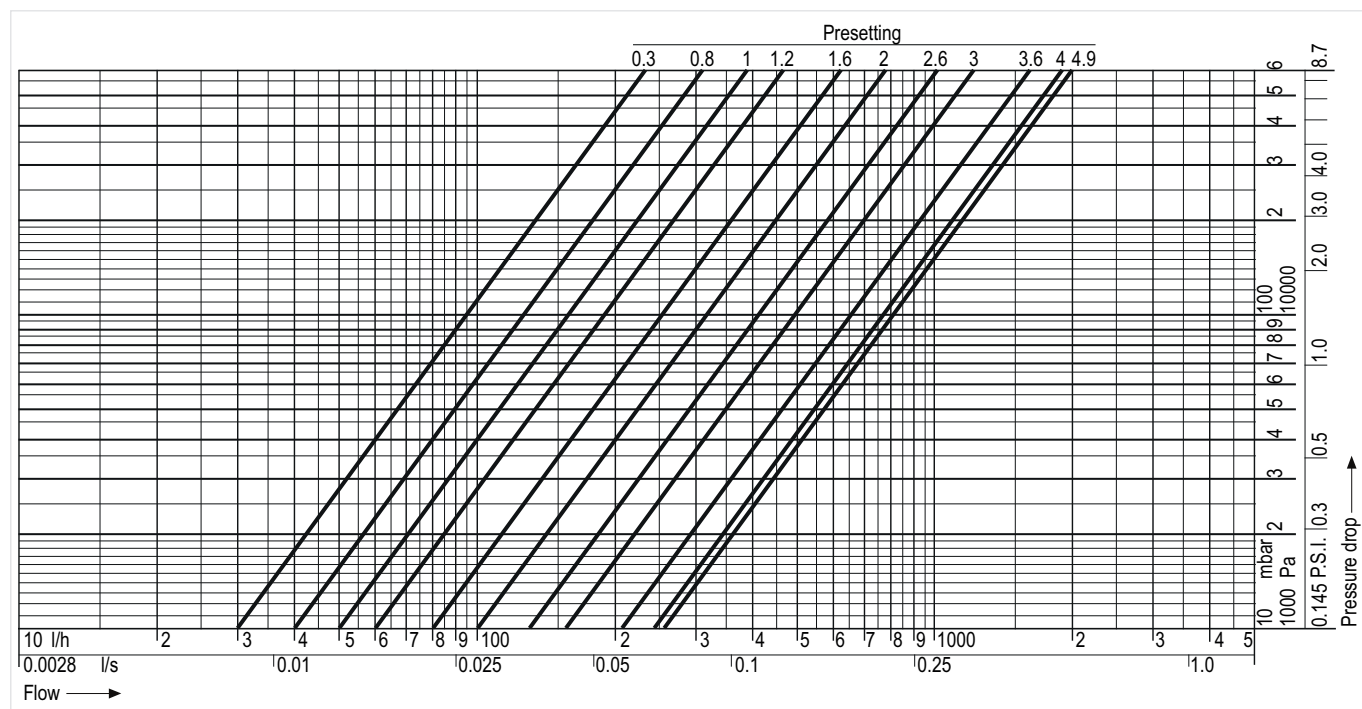
Setting:	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
k _v -value:	0.09	0.099	0.099	0.101	0.103	0.109	0.119	0.134	0.15
c _v -value:	0.09	0.099	0.099	0.101	0.103	0.109	0.119	0.134	0.15

Setting:	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8
k _v -value:	0.182	0.215	0.243	0.269	0.295	0.319	0.344	0.369	0.392
c _v -value:	0.184	0.217	0.246	0.273	0.302	0.327	0.355	0.382	0.409

Setting:	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6
k _v -value:	0.414	0.435	0.458	0.486	0.517	0.554	0.589	0.619	0.631
c _v -value:	0.434	0.461	0.488	0.524	0.563	0.614	0.668	0.714	0.733

Setting:	4.8	4.9 = open
k _v -value:	0.632	k _{VS} = 0.631
c _v -value:	0.732	c _{VS} = 0.729

Flow Data V5032B, DN15



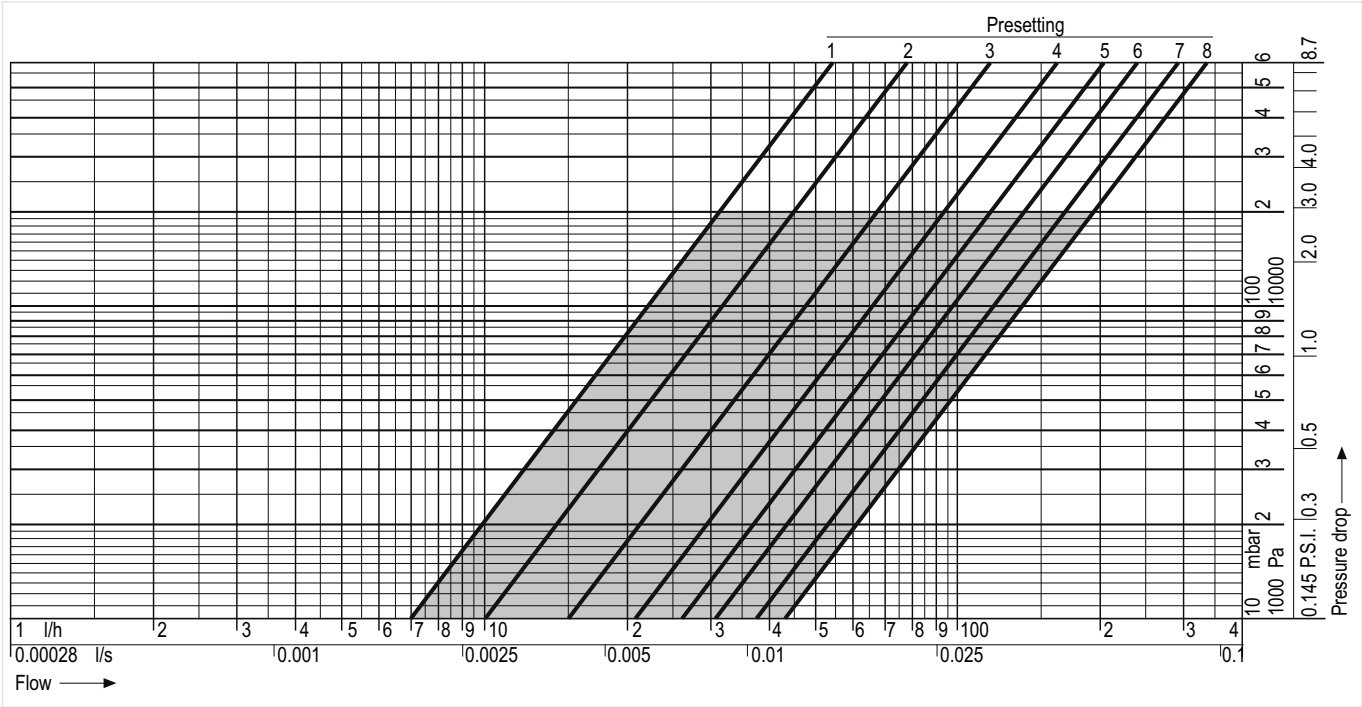
Presetting values

Setting:	0.3	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8
k_v -value:	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9
c_v -value:	0.3	0.3	0.3	0.5	0.6	0.7	0.8	0.9	1.0

Setting:	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6
k_v -value:	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.1
c_v -value:	1.2	1.3	1.4	1.5	1.7	1.9	2.1	2.3	2.4

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	4.9 = open
k_v -value:	2.3	2.4	2.4	2.5	2.5	2.6	$k_{VS} = 2.6$
c_v -value:	2.7	2.8	2.8	2.9	2.9	3.0	$c_{VS} = 3.0$

Flow Data V5032BLF, DN15

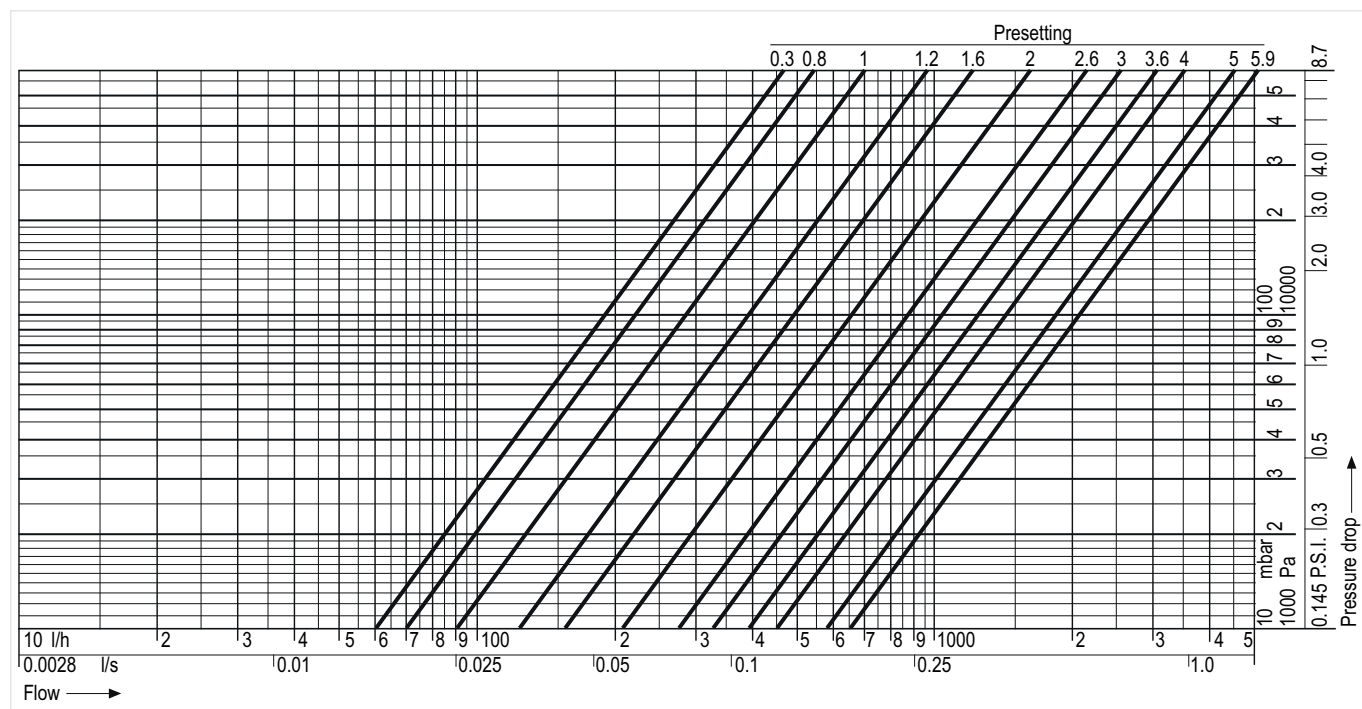


Note: Recommended range of application when used with actuator. MT4, M100 range, M4410E1510, M4410K1515 and M7410A1001

Presetting values

Setting:	1	2	3	4	5	6	7	8
k _v -value:	0.07	0.10	0.15	0.21	0.26	0.31	0.37	0.43
cv-value:	0.06	0.09	0.13	0.18	0.22	0.27	0.32	0.37

Flow Data V5032B, DN20



Presetting values

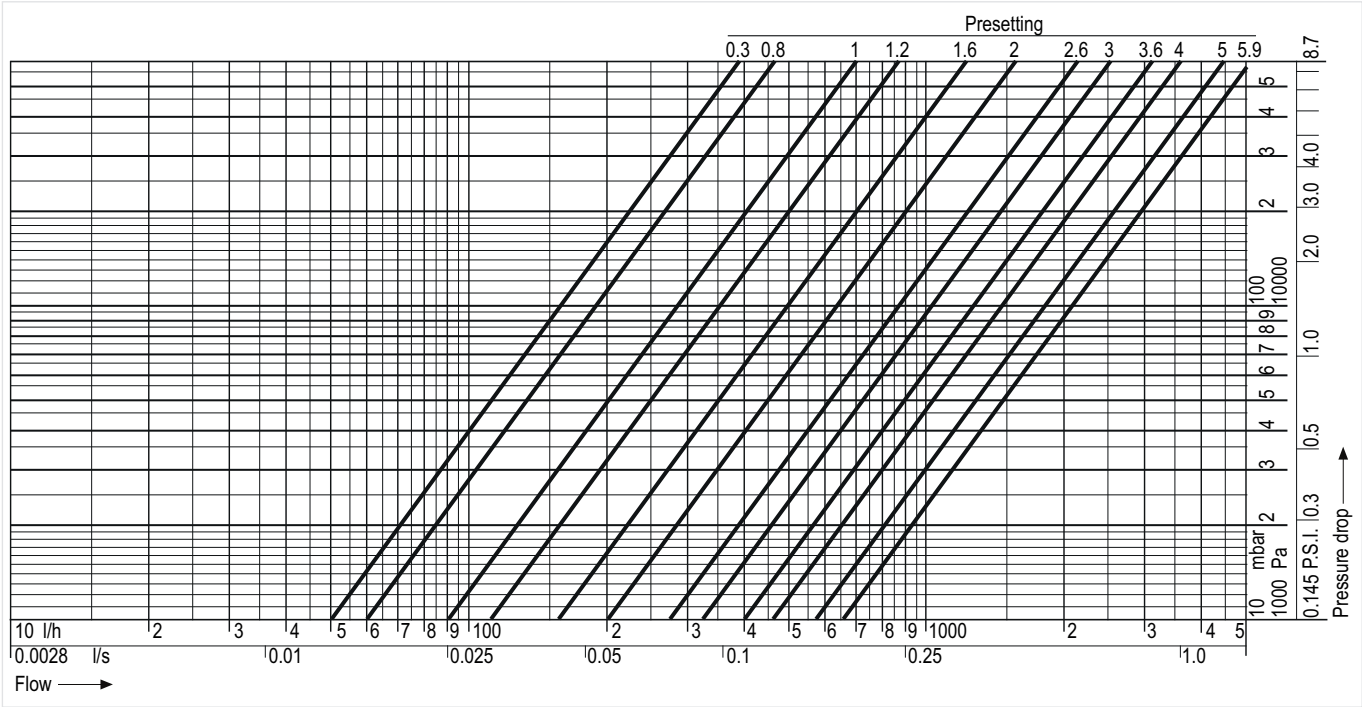
Setting:	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
k_v -value:	0.6	0.6	0.6	0.7	0.9	1.2	1.4	1.6	1.8
c_v -value:	0.7	0.7	0.7	0.8	1.1	1.4	1.6	1.9	2.1

Setting:	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
k_v -value:	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.7	3.9
c_v -value:	2.4	2.6	2.9	3.2	3.4	3.7	4.0	4.2	4.6

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4
k_v -value:	4.2	4.5	4.8	5.1	5.3	5.5	5.7	5.9	6.1
c_v -value:	4.9	5.3	5.6	5.9	6.2	6.4	6.7	6.9	7.1

Setting:	5.6	5.8	5.9 = open
k_v -value:	6.3	6.5	$k_{VS} = 6.5$
c_v -value:	7.3	7.5	$c_{VS} = 7.6$

Flow Data V5032B, DN25



Presetting values

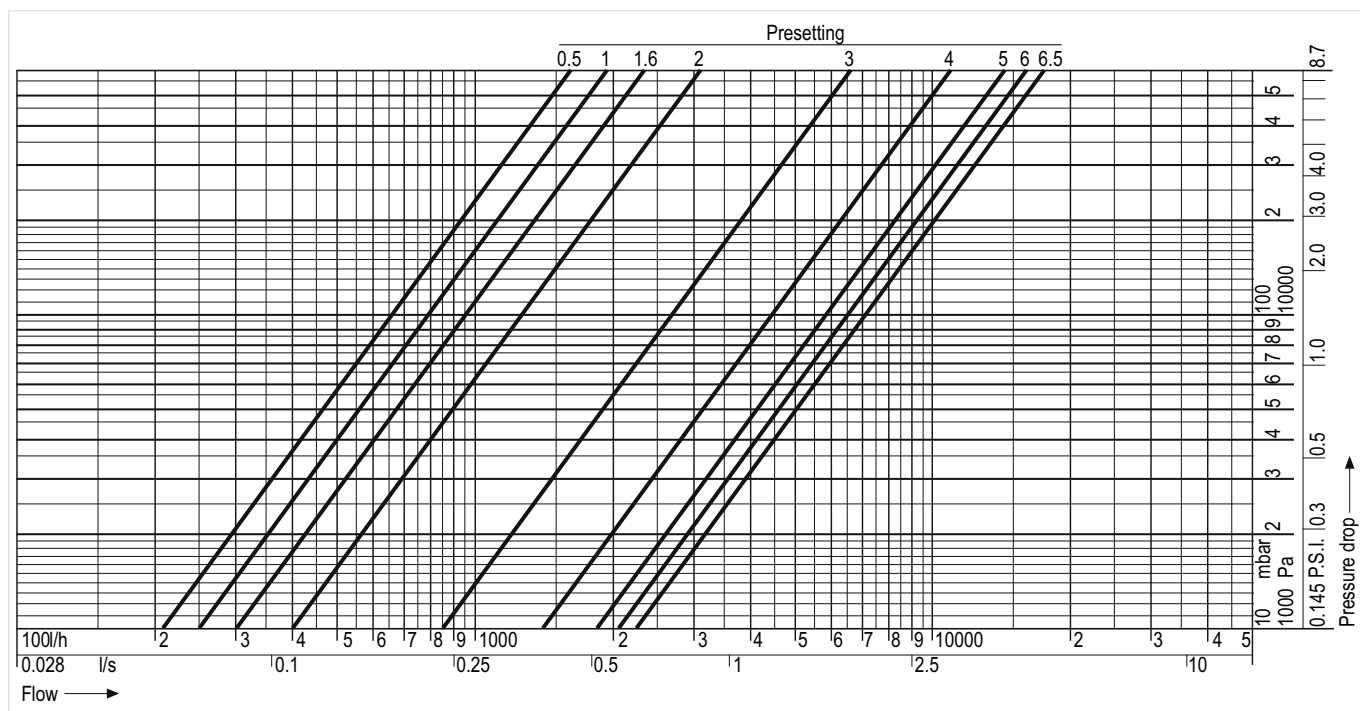
Setting:	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
k _v -value:	0.5	0.5	0.5	0.6	0.9	1.1	1.3	1.6	1.8
c _v -value:	0.6	0.6	0.6	0.7	1.0	1.3	1.5	1.8	2.1

Setting:	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
k _v -value:	2.0	2.2	2.5	2.7	3.0	3.2	3.4	3.7	4.0
c _v -value:	2.3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4
k _v -value:	4.3	4.6	4.9	5.2	5.4	5.5	5.7	5.8	6.0
c _v -value:	5.0	5.4	5.7	6.0	6.3	6.4	6.6	6.8	6.9

Setting:	5.6	5.8	5.9 = open
k _v -value:	6.2	6.5	k _{VS} = 6.6
c _v -value:	7.2	7.5	c _{VS} = 7.6

Flow Data V5032B, DN32



Presetting values

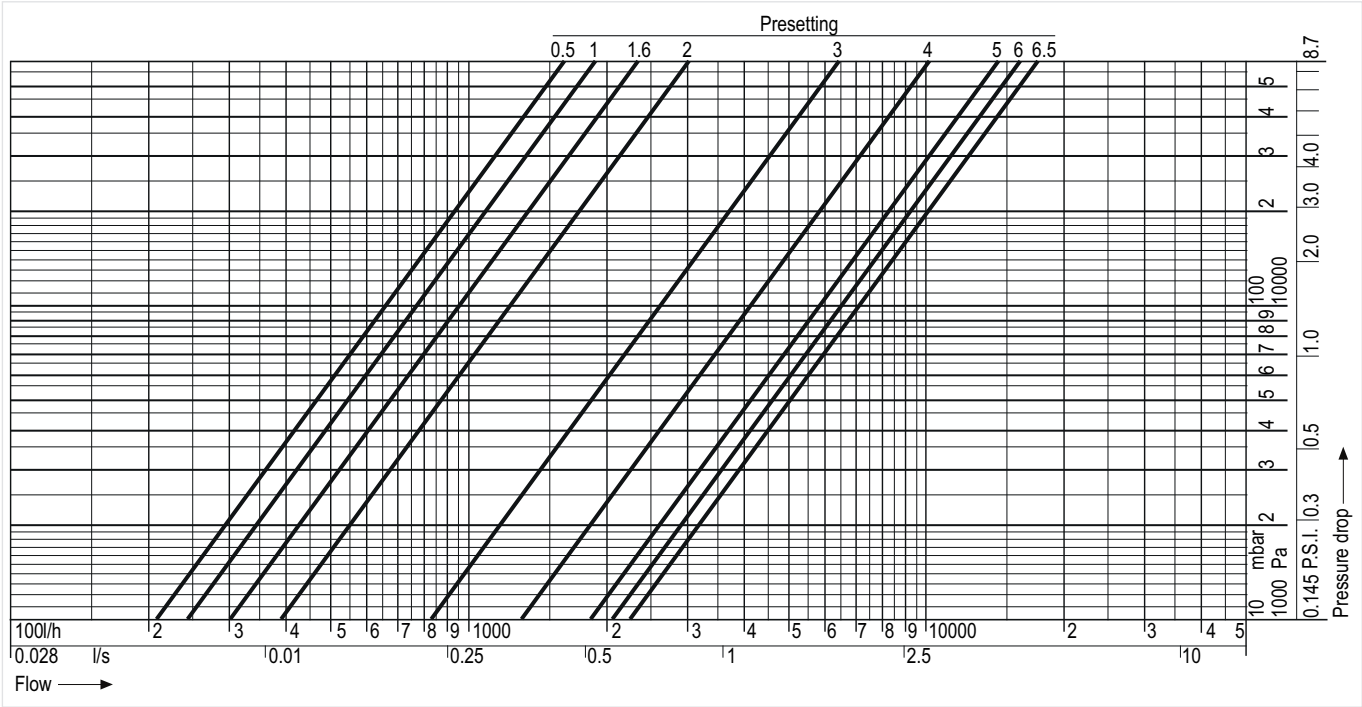
Setting:	0.5	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2
k_v -value:	2.1	2.5	2.7	2.8	2.9	3.0	3.4	4.0	4.8
c_v -value:	2.5	2.9	3.1	3.3	3.4	3.5	4.0	4.6	5.6

Setting:	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
k_v -value:	5.7	6.6	7.5	8.5	9.6	10.9	12.0	13.1	14.1
c_v -value:	6.6	7.6	8.7	9.9	11.2	12.7	14.0	15.2	16.5

Setting:	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
k_v -value:	15.3	16.3	17.2	17.9	18.5	19.1	19.4	19.7	20.0
c_v -value:	17.8	19.0	20.0	20.8	21.5	22.2	22.6	22.9	23.3

Setting:	6.0	6.2	6.4	6.5 = open
k_v -value:	20.5	21.0	21.6	$k_{VS} = 21.9$
c_v -value:	23.9	24.4	25.1	$c_{VS} = 25.5$

Flow Data V5032B, DN40



Presetting values

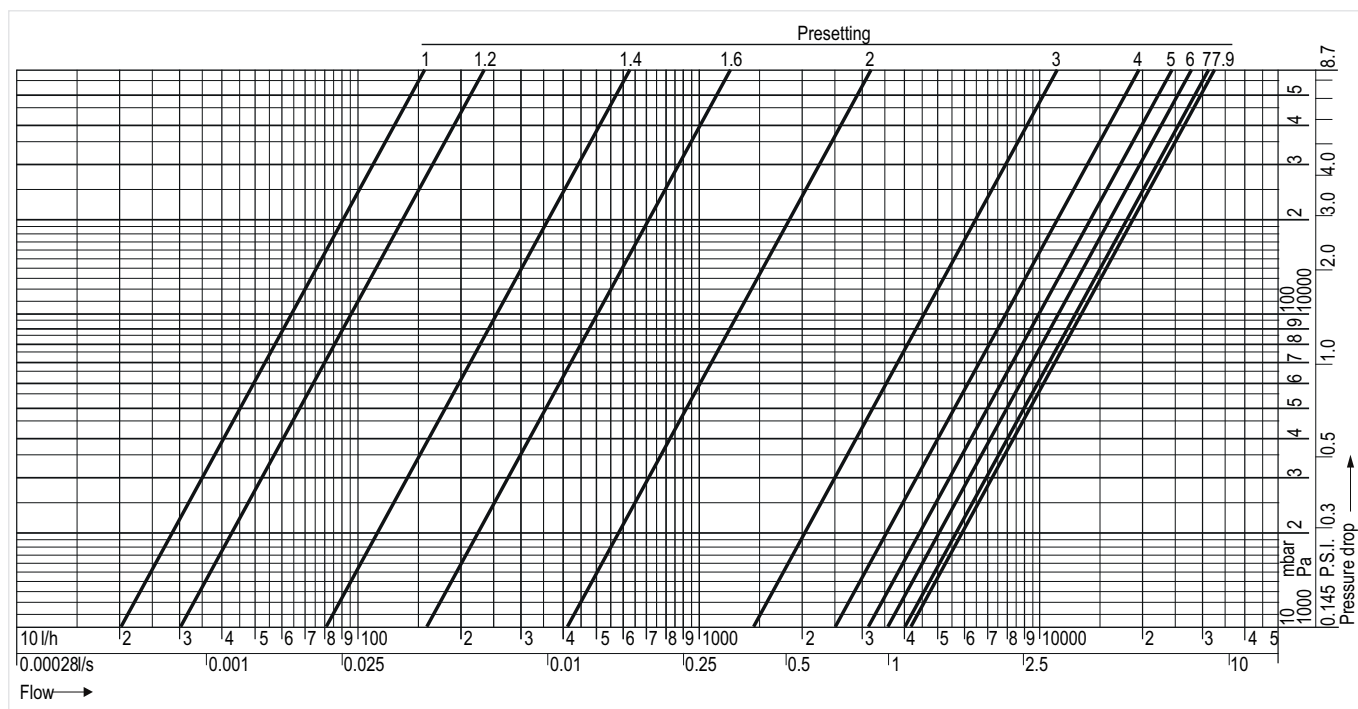
Setting:	0.5	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2
k _v -value:	2.1	2.4	2.6	2.8	2.9	3.0	3.3	3.9	4.6
c _v -value:	2.4	2.8	3.0	3.3	3.4	3.5	3.9	4.5	5.4

Setting:	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
k _v -value:	5.4	6.3	7.3	8.3	9.3	10.4	11.5	12.6	13.7
c _v -value:	6.3	7.3	8.5	9.6	10.9	12.1	13.3	14.6	16.0

Setting:	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
k _v -value:	14.8	15.9	16.8	17.5	18.2	18.6	18.9	19.1	19.6
c _v -value:	17.2	18.5	19.5	20.3	21.1	21.6	22.0	22.2	22.8

Setting:	6.0	6.2	6.4	6.5 = open
k _v -value:	20.1	20.6	21.1	k _{VS} = 21.2
c _v -value:	23.4	23.9	24.5	c _{VS} = 24.6

Flow Data V5032B, DN50



Presetting values

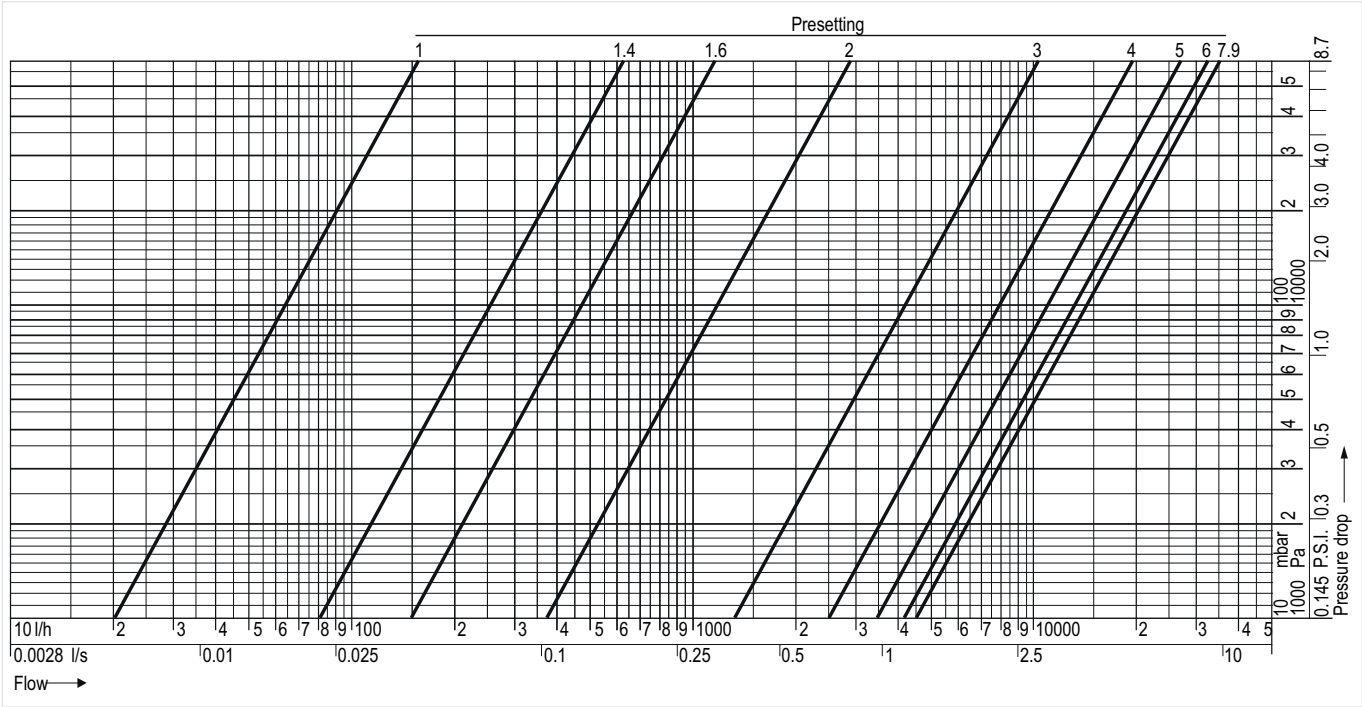
Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k_v -value:	0.2	0.3	0.8	1.6	2.7	4.1	5.7	7.6	9.6
c_v -value:	0.2	0.3	0.9	1.9	3.2	4.8	6.7	8.8	11.2

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k_v -value:	11.9	14.2	16.6	19.2	21.5	23.7	25.5	26.6	27.7
c_v -value:	13.8	16.5	19.3	22.3	25.0	27.6	29.7	30.9	32.2

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k_v -value:	28.9	29.9	31.0	32.1	32.8	34.0	34.9	36.0	36.9
c_v -value:	33.6	34.8	36.1	37.3	38.2	39.5	40.6	41.8	42.9

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k_v -value:	37.9	38.8	39.7	40.6	41.0	41.5	41.6	$k_{VS} = 41.5$
c_v -value:	44.1	45.1	46.1	47.2	47.7	48.3	48.4	$c_{VS} = 48.3$

Flow Data V5032B, DN65



Presetting values

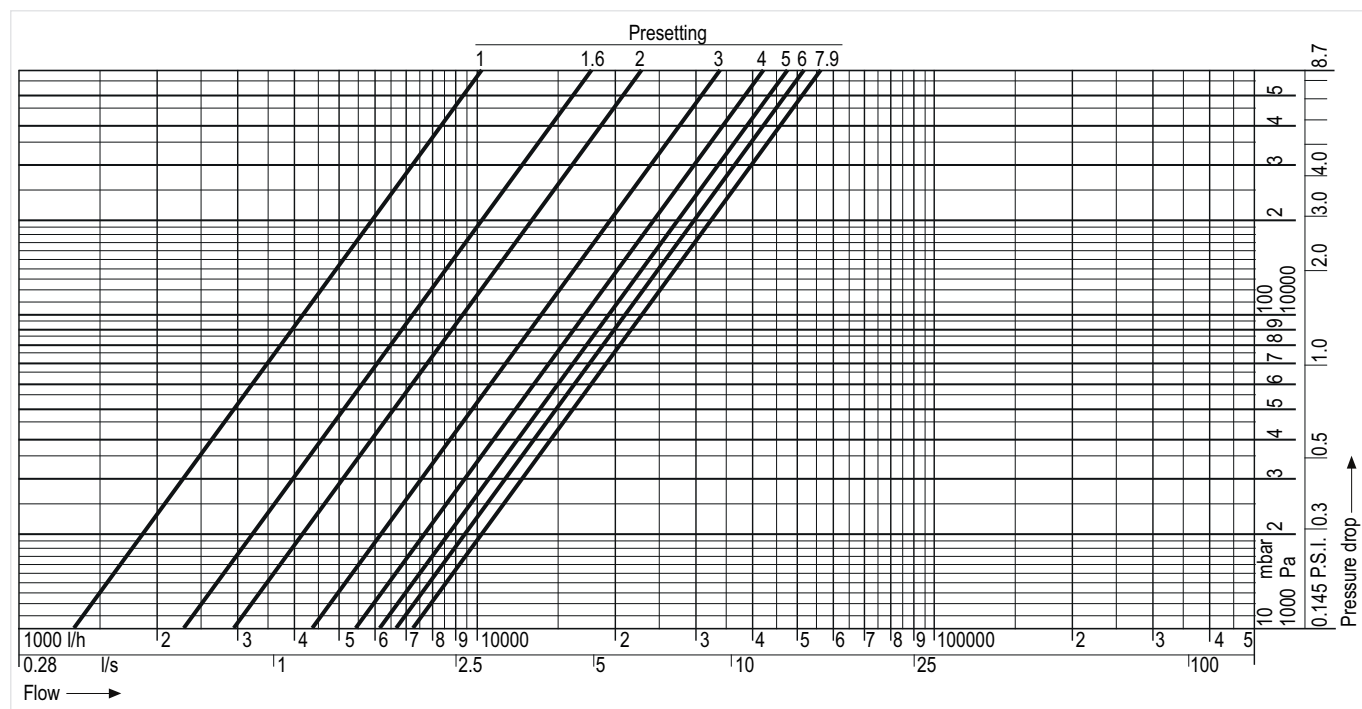
Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k _v -value:	0.2	0.2	0.8	1.5	2.5	3.7	5.2	7.0	9.0
cv-value:	0.3	0.2	0.9	1.8	2.9	4.4	6.1	8.1	10.4

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k _v -value:	11.1	13.4	15.8	18.1	20.5	22.9	25.1	27.3	29.3
cv-value:	12.9	15.6	18.3	21.1	23.9	26.6	29.2	31.7	34.1

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k _v -value:	31.3	33.1	34.8	36.4	37.9	39.2	40.4	41.4	42.3
cv-value:	36.4	38.5	40.5	42.4	44.1	45.6	46.9	48.1	49.1

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k _v -value:	43.0	43.6	44.0	44.4	44.7	44.9	45.1	k _{VS} = 45.3
cv-value:	50.0	50.7	51.2	51.7	52.0	52.2	52.4	c _{VS} = 52.6

Flow Data V5032B, DN80



Presetting values

Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k_v -value:	13.9	16.9	20.0	23.1	26.2	29.3	32.3	35.3	38.1
c_v -value:	16.2	19.7	23.2	26.8	30.4	34.0	37.6	41.0	44.3

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k_v -value:	40.8	43.4	45.9	48.2	50.4	52.4	54.3	56.0	57.6
c_v -value:	47.5	50.5	53.4	56.1	58.6	60.9	63.1	65.1	67.0

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k_v -value:	59.1	60.5	61.8	62.9	64.0	65.0	65.9	66.8	67.6
c_v -value:	68.7	70.4	71.8	73.2	74.4	75.6	76.7	77.7	78.6

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k_v -value:	68.3	69.0	69.7	70.3	71.0	71.6	72.1	$k_{VS} = 73.0$
c_v -value:	79.5	80.3	81.1	81.8	82.5	83.2	83.9	$c_{VS} = 84.9$

KV-VALUES FOR MEASURING WITH NON-HONEYWELL DEVICES

V5032B (DN10)

Setting:	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
k _v -value:	0.09	0.099	0.099	0.101	0.103	0.109	0.119	0.134	0.15
c _v -value:	0.09	0.099	0.099	0.101	0.103	0.109	0.119	0.134	0.15

Setting:	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8
k _v -value:	0.182	0.215	0.243	0.269	0.295	0.319	0.344	0.369	0.392
c _v -value:	0.184	0.217	0.246	0.273	0.302	0.327	0.355	0.382	0.409

Setting:	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6
k _v -value:	0.414	0.435	0.458	0.486	0.517	0.554	0.589	0.619	0.631
c _v -value:	0.434	0.461	0.488	0.524	0.563	0.614	0.668	0.714	0.733

Setting:	4.8	4.9 = open
k _v -value:	0.632	k _{VS} = 0.631
c _v -value:	0.732	c _{VS} = 0.729

V5032B (DN15)

Setting:	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
k _v -value:	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.0
c _v -value:	0.3	0.3	0.3	0.5	0.6	0.7	0.8	0.9	1.2

Setting:	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
k _v -value:	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7
c _v -value:	1.3	1.4	1.6	1.7	2.0	2.2	2.4	2.8	3.1

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	4.9 = open
k _v -value:	2.9	3.2	3.4	3.6	3.8	4.1	k _{VS} = 4.3
c _v -value:	3.4	3.7	4.0	4.2	4.4	4.8	c _{VS} = 5.0

V5032BLF (DN15)

Setting:	1	2	3	4	5	6	7	8
k _v -value:	0.07	0.10	0.15	0.21	0.26	0.31	0.37	0.43
c _v -value:	0.06	0.09	0.13	0.18	0.22	0.27	0.32	0.37

V5032B (DN20)

Setting:	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
k _v -value:	0.6	0.6	0.6	0.7	1.0	1.2	1.5	1.7	2.0
c _v -value:	0.7	0.7	0.7	0.9	1.1	1.4	1.7	2.0	2.3

Setting:	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
k _v -value:	2.3	2.5	2.8	3.1	3.3	3.6	3.8	4.1	4.4
c _v -value:	2.6	2.9	3.2	3.6	3.9	4.2	4.4	4.7	5.1

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4
k _v -value:	4.8	5.2	5.6	5.9	6.3	6.6	6.9	7.2	7.6
c _v -value:	5.6	6.1	6.5	6.9	7.4	7.7	8.0	8.4	8.8

Setting:	5.6	5.8	5.9 = open
k _v -value:	7.9	8.2	k _{VS} = 8.4
c _v -value:	9.2	9.6	c _{VS} = 9.8

V5032B (DN25)

Setting:	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
k _v -value:	0.5	0.6	0.6	0.6	0.9	1.1	1.4	1.7	1.9
cv-value:	0.6	0.8	0.8	0.8	1.1	1.3	1.6	1.9	2.2

Setting:	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
k _v -value:	2.2	2.4	2.7	2.9	3.2	3.5	3.7	3.9	4.2
cv-value:	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.5	4.9

Setting:	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4
k _v -value:	4.4	4.7	5.1	5.5	5.8	6.0	6.2	6.4	6.5
cv-value:	5.1	5.5	6.0	6.4	6.8	7.0	7.2	7.4	7.5

Setting:	5.6	5.8	5.9 = open
k _v -value:	6.8	7.3	k _{VS} = 7.4
cv-value:	7.9	8.4	c _{VS} = 8.6

V5032B (DN32)

Setting:	0.5	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2
k _v -value:	2.1	2.5	2.7	2.9	3.0	3.1	3.4	4.1	4.9
cv-value:	2.5	2.9	3.1	3.4	3.5	3.6	4.0	4.8	5.7

Setting:	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
k _v -value:	5.8	6.7	7.6	8.7	9.9	11.4	13.2	15.2	17.3
cv-value:	6.7	7.8	8.9	10.1	11.5	13.3	15.3	17.7	20.1

Setting:	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
k _v -value:	19.4	21.3	22.5	23.1	22.6	22.0	21.1	21.0	20.1
cv-value:	22.5	24.8	26.2	26.9	26.3	25.5	24.6	24.5	23.7

Setting:	6.0	6.2	6.4	6.5 = open
k _v -value:	20.7	21.3	22.2	k _{VS} = 23.1
cv-value:	24.0	24.7	25.8	c _{VS} = 26.8

V5032B (DN40)

Setting:	0.5	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2
k _v -value:	2.1	2.4	2.6	2.8	2.9	3.0	3.4	3.9	4.7
cv-value:	2.4	2.8	3.1	3.3	3.4	3.5	3.9	4.6	5.4

Setting:	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
k _v -value:	5.5	6.3	7.3	8.3	9.4	10.6	12.1	14.0	16.5
cv-value:	6.4	7.4	8.4	9.6	10.9	12.3	14.0	16.3	19.1

Setting:	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8
k _v -value:	19.1	21.2	22.7	23.3	23.3	22.7	21.5	20.0	19.6
cv-value:	22.2	24.6	26.3	27.1	27.0	26.4	25.0	23.3	22.8

Setting:	6.0	6.2	6.4	6.5 = open
k _v -value:	19.8	20.4	21.3	k _{VS} = 21.4
cv-value:	23.0	23.7	24.8	c _{VS} = 24.9

V5032B (DN50)

Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k _v -value:	0.2	0.3	0.8	1.6	2.8	4.3	6.0	8.2	10.7
cv-value:	0.2	0.3	0.9	1.9	3.2	4.9	7.0	9.5	12.4

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k _v -value:	13.6	17.1	20.8	24.8	28.8	31.6	33.0	33.2	33.3
cv-value:	15.8	19.8	24.2	28.9	33.5	36.7	38.4	38.6	38.7

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k _v -value:	33.3	33.9	34.9	35.8	36.4	38.0	39.8	42.1	44.2
cv-value:	38.7	39.4	40.6	41.7	42.3	44.1	46.2	48.9	51.4

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k _v -value:	45.7	47.1	48.7	50.4	51.8	50.7	48.8	k _{VS} = 46.9
cv-value:	53.2	54.7	56.6	58.6	60.2	59.0	56.7	c _{VS} = 54.6

V5032B (DN65)

Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k _v -value:	0.3	0.5	1.1	1.6	2.4	3.5	4.9	6.6	8.7
cv-value:	0.4	0.6	1.2	1.9	2.8	4.0	5.7	7.7	10.1

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k _v -value:	11.0	13.4	15.8	18.2	20.5	22.6	24.7	26.7	28.8
cv-value:	12.8	15.6	18.4	21.1	23.8	26.3	28.7	31.1	33.4

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k _v -value:	30.8	33.0	35.2	37.5	39.7	41.7	43.3	44.6	45.5
cv-value:	35.8	38.4	41.0	43.6	46.2	48.4	50.4	51.8	52.9

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k _v -value:	46.2	46.6	46.9	47.1	47.2	47.3	47.3	k _{VS} = 47.4
cv-value:	53.7	54.2	54.5	54.7	54.9	55.0	55.0	c _{VS} = 55.1

V5032B (DN80)

Setting:	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
k _v -value:	13.9	16.7	19.8	13.0	26.2	29.6	32.9	36.2	39.4
cv-value:	16.2	19.5	23.0	26.7	30.5	34.4	38.2	42.1	45.8

Setting:	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
k _v -value:	42.5	45.6	48.5	51.3	54.0	56.5	58.9	61.2	63.3
cv-value:	49.4	53.0	56.4	59.7	62.8	65.7	68.5	71.2	73.6

Setting:	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
k _v -value:	65.2	67.1	68.7	70.3	71.7	73.0	74.1	75.2	76.1
cv-value:	75.9	78.0	79.9	81.7	83.3	84.8	86.2	87.4	88.5

Setting:	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.9 = open
k _v -value:	76.9	77.7	78.4	78.9	79.5	79.9	80.3	k _{VS} = 80.9
cv-value:	89.5	90.3	91.1	91.8	92.4	92.9	93.4	c _{VS} = 91.0

Correction Factor f

When the density σ is expressed in t/m³ instead of kg/m³ the correction factor f is the result. The correction factor f can be used to recalculate kv-value, pressure drop and flow:

$$kv_{Medium} = kv_0 \times \frac{1}{\sqrt{f}} \quad \Delta p_{Medium} = \Delta p_0 \times f \quad m_{Medium} = m_0 \times \frac{1}{\sqrt{f}}$$

Medium	Water part	Correction factor f					
		5 °C (41 °F)	20 °C (68 °F)	35 °C (95 °F)	50 °C (122 °F)	65 °C (149 °F)	80 °C (176 °F)
Normal water	100 %	1.0	0.998	0.994	0.988	0.981	0.972
Ethylen glycol	70 %	1.052	1.047	1.041	1.033	1.024	1.015
e.g. Antifrogen N	50 %	1.086	1.079	1.070	1.061	1.052	1.042
Propylen glycol	70 %	1.035	1.029	1.021	1.012	1.002	0.991
e.g. Antifrogen L	50 %	1.053	1.044	1.035	1.025	1.014	1.002

Influence of Coolants on Flow Values

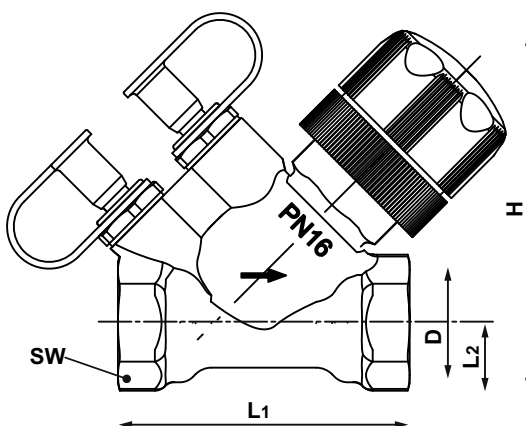
The flow through a valve is defined by the kv-value. The kv-value is the flow m through a valve in [m³/h] at a differential pressure of 1 bar (14.5 psi) and is only valid for fluids with a density of $\sigma_0 = 1000 \text{ kg/m}^3$. This condition is met by water at a temperature of 20°C (68°F). For fluids with another density the following formula can be applied:

$$kv_{Medium} = \frac{m}{\sqrt{\Delta p}} \times \frac{\sqrt{\rho_{Medium}}}{\sqrt{\rho_0}}$$

DIMENSIONS

V5032BLF (DN15)

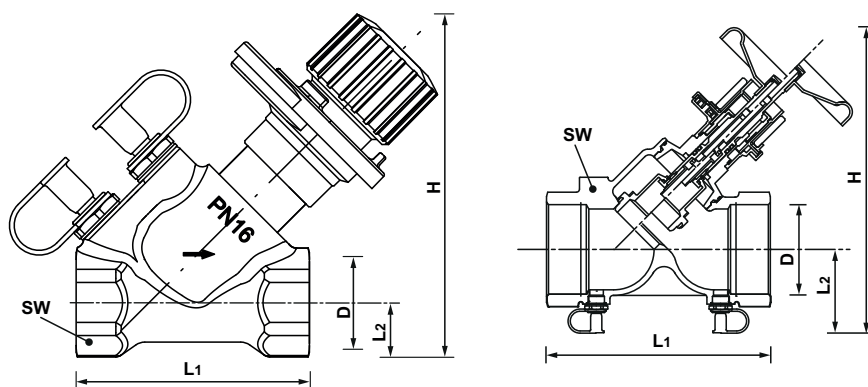
Overview



Parameter		Values
Connection sizes:	R	1/2"
Nominal sizes:	DN	15
Dimensions:	D	Rp1/2"
	H	82
	L1	65
	L2	15
	SW	27

Note: All dimensions in mm unless stated otherwise.

Note: Dimension 'H' refers to fully open valve.

V5032B (DN10 to DN80)**Overview**

DN10 - DN50

DN65 - DN80

Parameter		Values								
Connection sizes:	R	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Nominal sizes:	DN	10	15	20	25	32	40	50	65	80
Dimensions:	D	Rp3/8"	Rp1/2"	Rp3/4"	Rp1"	Rp1 1/4"	Rp1 1/2"	Rp2"	Rp2 1/2"	Rp3"
	H	92	101	116	121	160	164	192	195	210
	L ₁	65	65	75	90	110	120	150	180	200
	L ₂	12.5	15	18	22	27	30	38	68	73
	SW	22	27	32	41	50	55	70	85	100

Note: All dimensions in mm unless stated otherwise.

Note: Dimension 'H' refers to fully open valve.

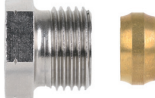
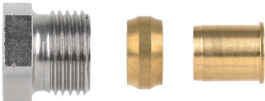
ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

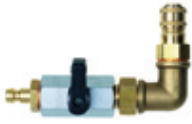
DN:	k _{vs} (c _{vs})-value:	Weight: (g)	OS-No.:
DN10	0.63 (0.73)	400	V5032Y0010B
DN15	2.6 (3.0)	425	V5032Y0015B
DN15 BLF	0.43 (0.5)	350	V5032Y0015BLF
DN20	6.5 (7.5)	560	V5032Y0020B
DN25	6.6 (7.6)	720	V5032Y0025B
DN32	21.9 (25.3)	1230	V5032Y0032B
DN40	21.2 (24.5)	1320	V5032Y0040B
DN50	41.5 (48.0)	2380	V5032Y0050B
DN65	45.2 (52.6)	2300	V5032Y0065B
DN80	73.0 (84.9)	2300	V5032Y0080B

Accessories

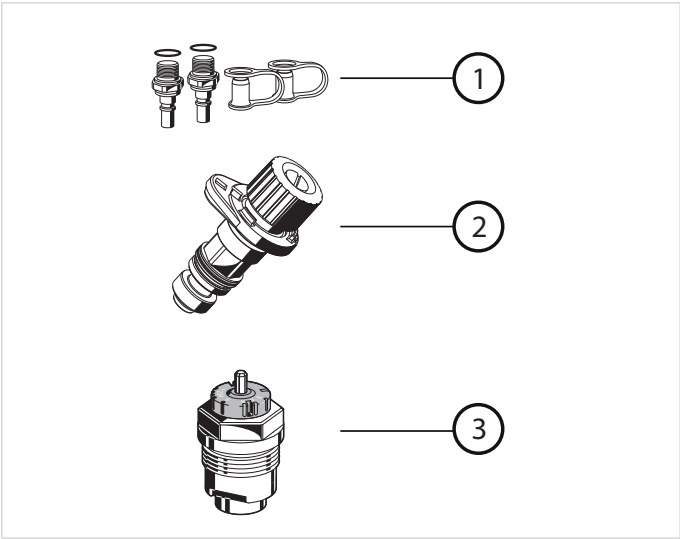
	Description	Dimension	Part No.
	FIG1/2CS Compression fitting for COPPER and STEEL pipe Consisting of compression nut and compression ring. For valves with internal thread. Note: Support inserts have to be used for copper or soft steel pipe with 1.0 mm wall thickness. Max. operating temperature 120 °C, max. operating pressure 10 bar.		
	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 (10pcs.)	15 mm	FIG1/2CS15 - 10
	1/2", DN15	16 mm	FIG1/2CS16
	3/4", DN20	18 mm	FIG3/4CS18
	3/4", DN20	22 mm	FIG3/4CS22
	FIG1/2CSS Compression fitting for COPPER and STEEL pipe Consisting of compression nut and compression ring and support insert. For valves with internal 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.		
	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
	V5000Y Kombi-3-plus RED (V5000) measuring and shut-off valve for the supply Note: For product information and diagrams see product data sheet 'V5000 Kombi-3-plus'		
		1/2" (DN15)	V5000Y0015
		3/4" (DN20)	V5000Y0020
		1" (DN25)	V5000Y0025
		1 1/4" (DN32)	V5000Y0032
		1 1/2" (DN40)	V5000Y0040
		2" (DN50)	V5000Y0050
		2 1/2" (DN65)	V5000Y0065
		3" (DN80)	V5000Y0080
	VB550Y Ball valve (VB550) Shut-off valve for the supply		
		1/2" (DN15)	VB550Y0015
		3/4" (DN20)	VB550Y0020
		1" (DN25)	VB550Y0025
		1 1/4" (DN32)	VB550Y0032
		1 1/2" (DN40)	VB550Y0040
		2" (DN50)	VB550Y0050
	VA2501 Tamper-proof cap		
	for valves DN10 - DN25		VA2501A010
	for valves DN32 - DN50		VA2501A032
	VA2510 Insulation shells Note: For product information see product data sheet 'VA2510B Insulation Shells'.		
	for valves DN15		VA2510B015
	for valves DN20		VA2510B020
	for valves DN25		VA2510B025
	for valves DN32		VA2510B032
	for valves DN40		VA2510B040
	for valves DN50		VA2510B050

	VA3401A	Draining valve		
			for all sizes	VA3401A008
	VA8201FV	Presetting key		
		for Kombi-II-plus V5032BLF valves DN15		VA8201FV02
	VA5032A	Draining adapter for SafeCon™ connections		
		Can be used to drain the water from a SafeCon connection provided on the Honeywell balancing valve families as shown below		
			for all dimensions	VA5032A001

Measuring equipment

	VA3600	Measuring adapter (2 pcs.)		
		For measuring computer VM241		VA3600C001
	VM242A	BasicMes-2 handheld measuring computer		
		Computer is supplied with case and accessories	for all sizes	VM242A0101

Spare Parts

Overview	Description	Dimension	Part No.
	1 Spare set of 2 pressure test cocks G¹/₄"		
		DN10 - DN80	VS2600C001
	2 Valve insert for Kombi-II-plus V5032B		
		DN10	VS5032DZ1010
		DN15	VS5032DZ1015
		DN20	VS5032DZ1020
		DN25	VS5032DZ1025
		DN32	VS5032DZ1032
		DN40	VS5032DZ1040
		DN50	VS5032DZ1050
	3 Valve insert for Kombi II-plus V5032BLF		
		DN15	VS1200FV01

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