

Braukmann

V5003F Kombi-VX

Presettable flow control valve

Application

The V5003F Kombi-VX is an automatic balancing valve. It is designed for balancing of heating and cooling systems by providing a constant flow rate even under changing pressure conditions. The flow rate can be externally adjusted via presettings.

Special Features

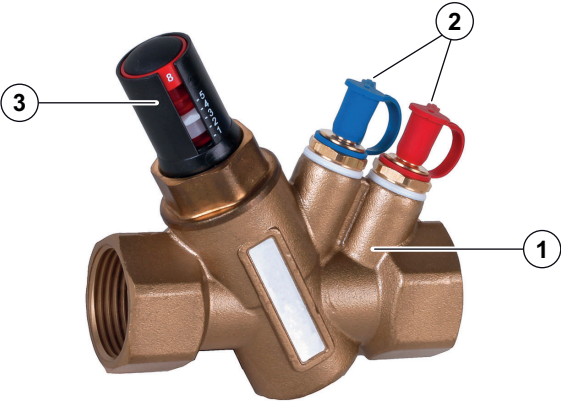
- Valve insert in cartridge design
 - easily removable for flushing
 - easily exchangeable
- Pressure measuring ports on same side as presetting
- Robust against dirt, residue, deposit and critical medium
- Various versions for different flow ranges and differential pressure ranges available
- Compact design of both valve housing and valve insert
- Valve inserts with clear digital display of presetting value
- Simplified measuring with SafeCon™ pressure test connections
- Maintenance free design



Technical Data

Medium	
Medium:	Water with max. 50 % glycol according to VDI 2035
Pressure values	
Differential pressure:	See "Ordering Information"
Max. operating pressure:	PN 25
Factory presetting:	4.2
Operating temperatures	
Water:	-20 - 120 °C (-4 - 248 °F)
Water-glycol mixtures:	-20 - 110 °C (-4 - 230 °F)

Construction

Overview		Components	Materials
	1	Valve housing PN 25, DN 15 - DN 50 with internal threads (ISO 228)	Brass CuZn40Pb2
	2	SafeCon™ pressure test valves with dust caps	Brass and rubber
	3	Presettable valve insert	Brass, stainless steel and plastic with rubber diaphragm and EPDM o-rings

Method of Operation

The flow control cartridges of the V5003F Kombi-VX contains two interacting components. One that has an adjustable orifice and one that regulates the pressure differential across the adjustable orifice. The result is a constant flow rate through the valve, independent of changing pressure conditions. It is recommended to remove the valve insert and install a blind cap for system flushing.

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. Valve inserts must be removed before flushing and all valve openings sealed by blind caps.
- Any complaints or costs resulting from non-compliance with above rules will not be accepted by Resideo.
- Please contact us if you should have any special requirements or needs.

Installation Example

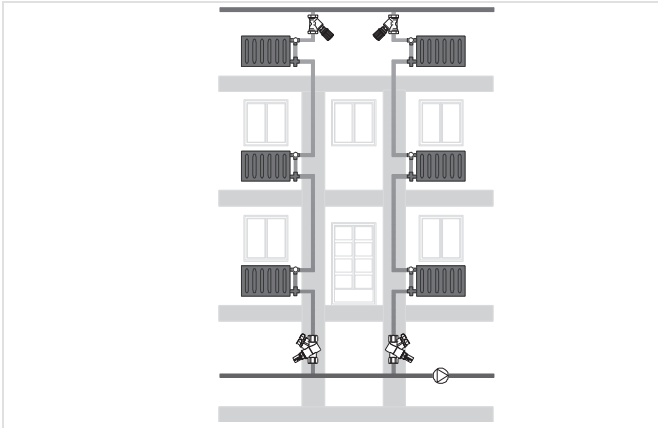


Fig. 1 Chilled Ceiling, 2-pipe system

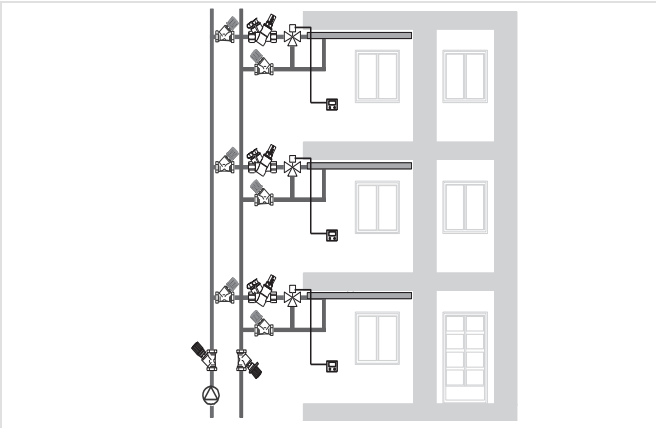


Fig. 3 Fan-Coil Unit, 4-pipe system

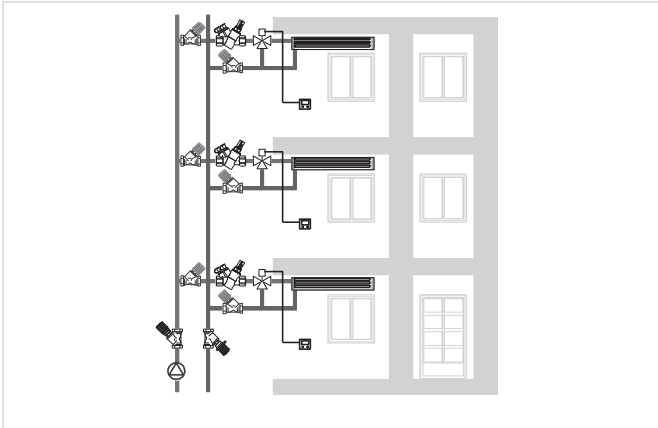


Fig. 2 Fan-Coil Unit, 2-pipe system

Technical Characteristics

Flow Rate

V5003FY10.. (DN 15 - DN 25)			
with valve insert	V5003FZ1015 0412	V5003FZ1015 0609	V5003FZ1015 0825
Colour	black-white pawl	green white pawl	red-white pawl
Δp (mbar)	170-2100	170-2100	170-2100
Presetting	[l/h]	[l/h]	[l/h]
1.0	100	157	276
1.5	140	210	360
2.0	180	270	440
2.5	220	330	520
3.0	260	380	600
3.5	300	440	670
4.0	330	500	730
4.5	370	550	780
5.0	412	609	825

V5003FY20.. (DN 15 - DN 25)			
with valve insert	V5003FZ2015 0615	V5003FZ2015 0896	V5003FZ2015 1270
Colour	black-grey pawl	green-grey pawl	red-grey-pawl
Δp (mbar)	350-4000	350-4000	350-4000
Presetting	[l/h]	[l/h]	[l/h]
1.0	138	238	406
1.5	200	320	510
2.0	260	400	620
2.5	320	490	730
3.0	380	570	840
3.5	440	650	940
4.0	500	730	1050
4.5	560	810	1160
5.0	615	896	1270

Accuracy: Greatest of either $\pm 5\%$ of controlled flow rate or $\pm 2\%$ of maximum flow rate.

V5003FY10.. (DN 25 LI - DN 32)	
with valve insert	V5003FZ10325020
Colour	green/black-white pawl
Δp (mbar)	170-4000
Presetting	[l/h]
1.0	535
1.5	1730
2.0	2690
2.5	3470
3.0	4100
3.5	4620
4.0	5050
4.5	5440
5.0	5830

V5003FY10.. (DN 40 - DN 50)	
with valve insert	V5003FZ10501610
Colour	black/champagne-grey pawl
Δp (mbar)	200-4000
Presetting	[l/h]
1.0	3180
1.5	7070
2.0	9570
2.5	11200
3.0	12400
3.5	13400
4.0	14400
4.5	15300
5.0	16100

Accuracy: Greatest of either $\pm 5\%$ of controlled flow rate or $\pm 2\%$ of maximum flow rate.

Pressure drop characteristics

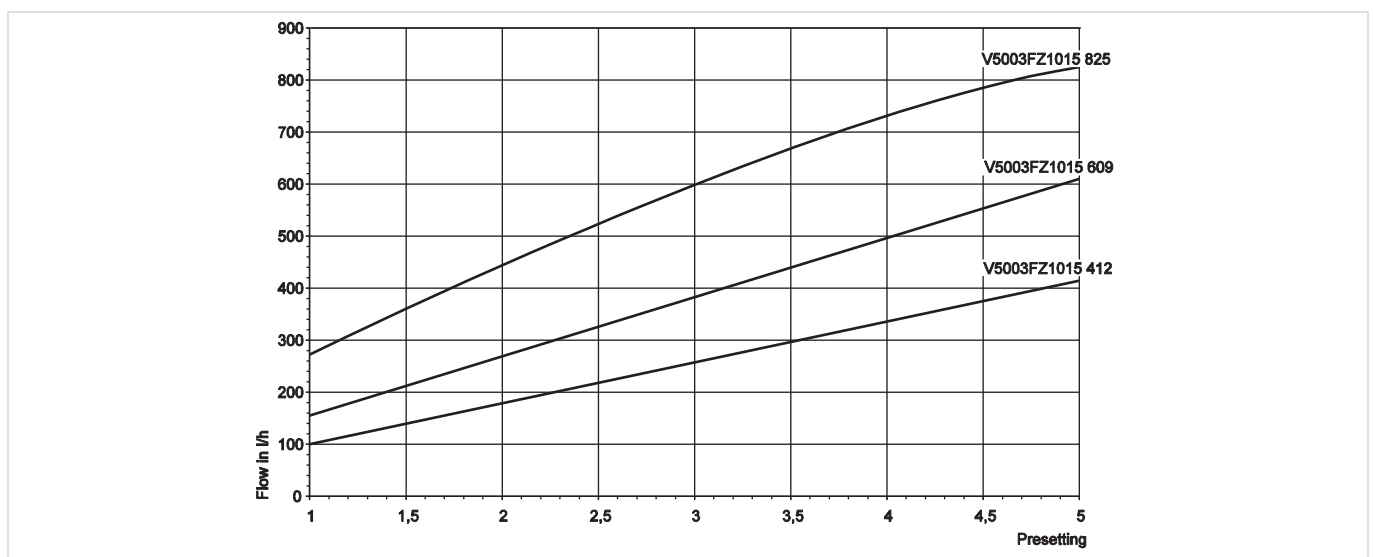


Fig. 4 Presetting Diagram Kombi VX V5003FY10

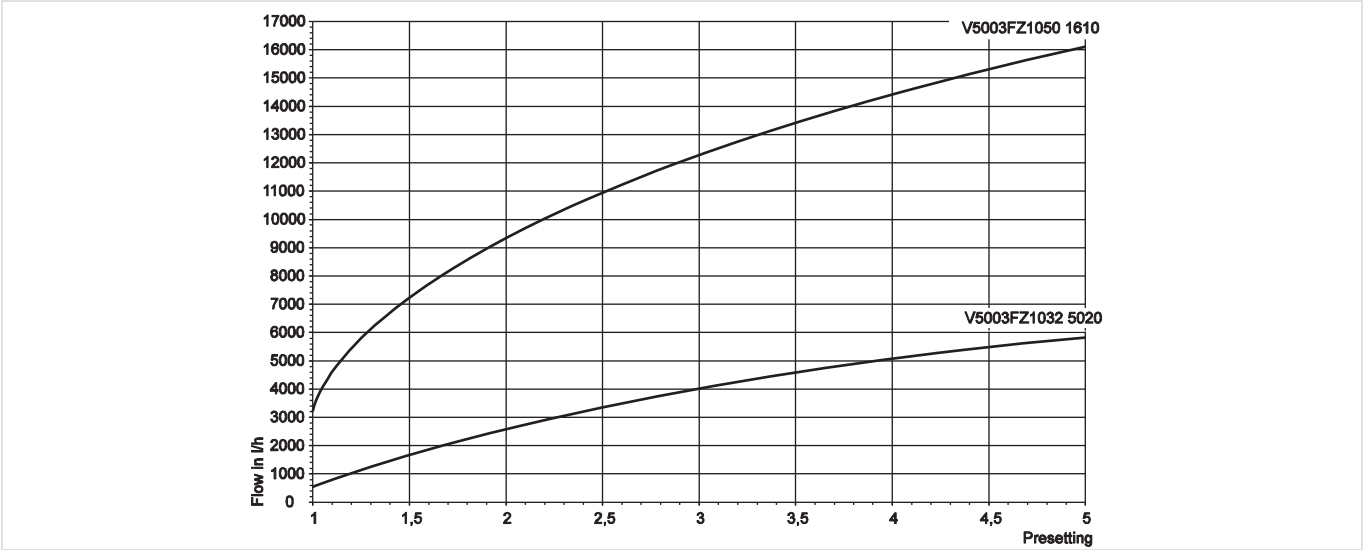


Fig. 5 Presetting Diagram Kombi VX V5003FY10

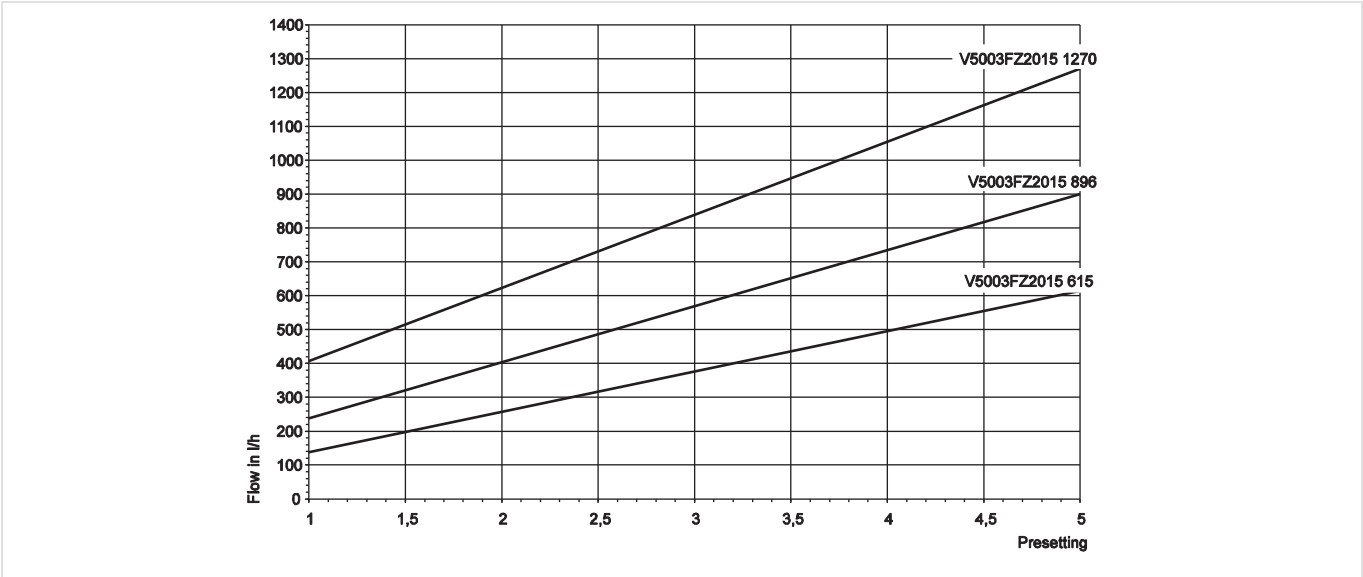
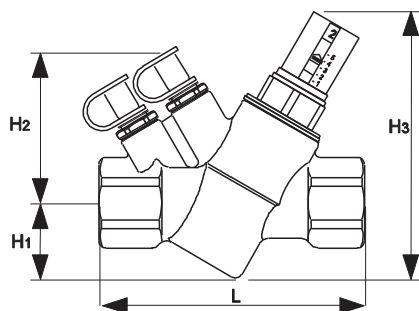


Fig. 6 Presetting Diagram Kombi VX V5003FY20

Dimensions

Overview



Parameter		Values						
Nominal sizes:	DN	DN 15	DN 20	DN 25	DN 25 LI*	DN 32	DN 40	DN 50
Connection size:	R	1/2"	3/4"	1"	1"	1 1/4"	1 1/2"	2"
Weight:	kg	0.55	0.62	0.65	1.87	1.69	3.86	3.48
Dimensions:	H ₁	31	31	31	46	46	54	54
	H ₂	68	68	65	82	82	90	90
	H ₃	110	110	110	146	146	171	171
	L	83	95	102	128	128	169	169

* LI = large insert

Note: All dimensions in mm unless stated otherwise.

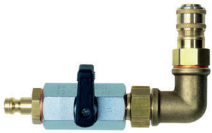
Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

Options

Nominal size diameter:	Differential pressure:		Flow range:		Item No.:
	(kPa)		(l/h)		
DN	min.	max.	min.	max.	
DN 15	17	210	100	412	V5003FY10150412
DN 15	17	210	157	609	V5003FY10150609
DN 15	17	200	276	825	V5003FY10150825
DN 15	35	400	138	615	V5003FY20150615
DN 15	35	400	238	896	V5003FY20150896
DN 15	30	400	406	1270	V5003FY20151270
DN 20	17	210	100	412	V5003FY10200412
DN 20	17	210	157	609	V5003FY10200609
DN 20	17	200	276	825	V5003FY10200825
DN 20	35	400	138	615	V5003FY20200615
DN 20	35	400	238	896	V5003FY20200896
DN 20	30	400	406	1270	V5003FY20201270
DN 25	17	210	100	412	V5003FY10250412
DN 25	17	210	157	609	V5003FY10250609
DN 25	17	200	276	825	V5003FY10250825
DN 25	35	400	138	615	V5003FY20250615
DN 25	35	400	238	896	V5003FY20250896
DN 25	30	400	406	1270	V5003FY20251270
DN 25(LI)	17	400	535	5830	V5003FY10265020
DN 32	17	400	535	5830	V5003FY10325020
DN 40	20	400	3180	16100	V5003FY10401610
DN 50	20	400	3180	16100	V5003FY10501610

Accessories

	Description		Dimension	Item No.
	VA5003	Presetting key		
			for all sizes	VA5003ZA001
	VA3600	Measuring adapter (2 pcs.)		
		Conversion connector for measuring balancing and Non measuring instrument. SafeCon female connection to Rectus 21 male connection with ball valve.		VA3600C001
	VA2601	Extension piece for pressure test cocks, for insulated valves		
		Length 45 mm	for all dimensions	VA2601A008
	VM242A	BasicMes-2 handheld measuring computer		
		Computer is supplied with case and accessories	for all sizes	VM242A0101
	VA5032A	Draining adapter for SafeCon™ connections		
		Can be used to drain the water from a SafeCon connection provided on the balancing valve families	for all dimensions	VA5032A001

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Subject to change. EN0H-2322GE23 R0226
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