

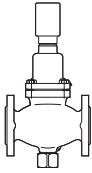
Data sheet

Two- and three way valves VFG.. / VFGS 2 / VFU..




Ordering (VFU 2)

Opening valve, pressure relieved.

VFU 2 (metallic sealing cone)

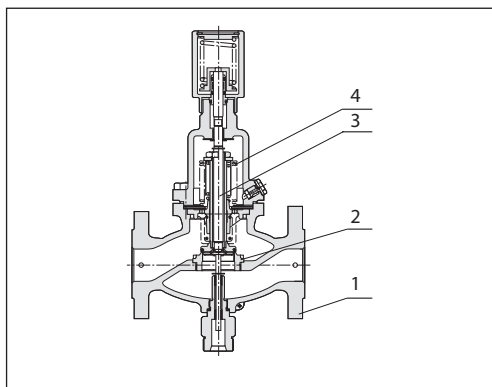
Picture	DN (mm)	k _{VS} (m³/h)	T _{max} (°C)	Code No.
				PN 16
	15	4,0	200	065B2738
	20	6,3		065B2739
	25	8,0		065B2740
	32	16		065B2741
	40	20		065B2742
	50	32		065B2743
	65	50		065B2744
	80	80		065B2745
	100	125		065B2746
	125	160		065B2747

Technical data (VFU 2)

Nominal diameter		DN	15	20	25	32	40	50	65	80	100	125
k _{VS} value		(m³/h)	4	6,3	8	16	20	32	50	80	125	160
z value acc. to VDMA 24 422			0,6	0,6	0,6	0,55	0,55	0,5	0,5	0,45	0,4	0,35
	Δp _{max.} (bar) AFT..	PN 16	10								8	
	Δp _{max.} (bar) AMV(E) 410, 413	PN 16	12								-	
	Δp _{max.} (bar) AMV(E) 610, 613, 630, 633	PN 16	12								10	8
Nominal pressure			PN 16, flanges to EN 1092-2									
Flow medium/Temperature			Circulation water / Glycolic water up to 30% / 2 ... 200 °C									
Pressure balance			Stainless steel bellow, mat. No.1.4571									
Valve body material			Grey cast iron EN-GJL-250 (GG-25)									
Cone material/Conical seal			Stainless steel, mat. No. 1.4404									
Seat material			Stainless steel, mat. No. 1.4021									

Design (VFU 2)

- 1 Valve body
- 2 Valve seat
- 3 Valve insert
- 4 Bellow



Accessories

Picture	Type	Note	Code No.
	Comb. piece KF2	For combinations with thermostats	003G1398
	Comb. piece KF3	For combinations with thermostats, pressure controllers and motorised actuators	003G1397
	Valve stem extension ZF4	Only DN 15-125 For temperatures above 200 °C	003G1394
	Valve stem extension ZF5	Only DN 15-125 For water, steam or oil above 200 °C	003G1396
	Valve stem extension ZF6	For temperatures until 200 °C	003G1393
	Flow divider for VFGS 2 (for noise reduction)	DN	Code No.
		15	065B2775
		20	065B2776
		25	065B2777
		32	065B2778
		40	065B2779
		50	065B2779
		65	065B2779
		80	065B2779
		100	065B2779
		125	065B2779

Remark:

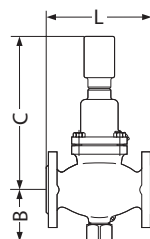
Temperature controller with thermostat AFT..:

This controller can be used until operating pressure of 14 bar. If the operating pressure is higher than 14 bar the valve stem extension ZF4, ZF6 or the combination piece KF2 must be used.

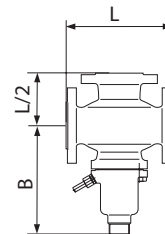
Pressure / temperature table
acc. EN 1092-2

Nominal pressure	Material flange valves			Permitted operational pressure in bar subject to temperature in °C					
	Grey cast iron	Ductile iron	Cast steel	-10 ... 120 °C	150 °C	200 °C	250 °C	300 °C	350 °C
PN 10	EN-GJL-250 (GG25)	-	-	10	9	8	7	6	-
PN 16				16	14,4	12,8	11,2	9,6	
PN 10	EN-GJS-400-18-LT (GGG40.3)	10		9,5	9	8	7	5,5	
PN 16		16		15,2	14,4	12,8	11,2	8,8	
PN 25		25		23,8	22,5	20	17,5	13,8	
PN 16	-	-	GP240GH (GS-C25)	16	15,7	15,2	14,4	12,8	11,2
PN 25				25	24,5	23,8	22,5	20	17,5
PN 40				40	39	38	36	32	28

Dimensions (continuous)



VFU 2
DN 15-125



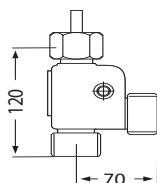
VFG 33
DN 25-125

VFG 33 valves

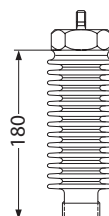
DN		25	32	40	50	65	80	100	125
L	mm	160	180	200	230	290	310	350	400
B	mm	238	238	240	240	275	275	380	380
Weight	kg	10,5	12	17	21	35	41	75	93

VFU 2 valve

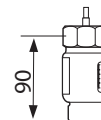
DN		15	20	25	32	40	50	65	80	100	125
L	mm	130	150	160	180	200	230	290	310	350	400
B	mm	95	95	106	106	123	123	135	135	165	165
C	mm	306	306	332	332	334	334	369	369	474	474
Weight	kg	7,0	9,0	10	13	17	22	33	41	70	79



Comb. piece KF2



Valve stem extension
ZF4, ZF5



Valve stem extension
ZF6