TECHNICAL BULLETIN

Kämmer® SmallFlow™ - 080000

Low and Micro Flow Valves

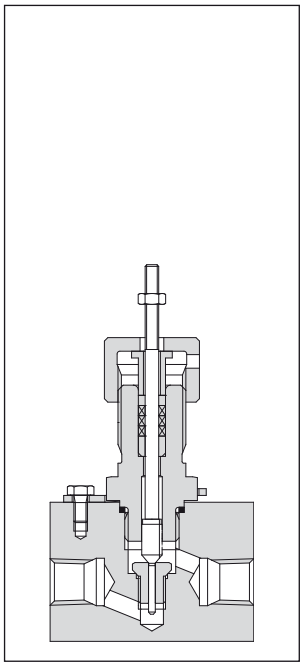
FCD KMENTB8020-01 01/12

Experience In Motion

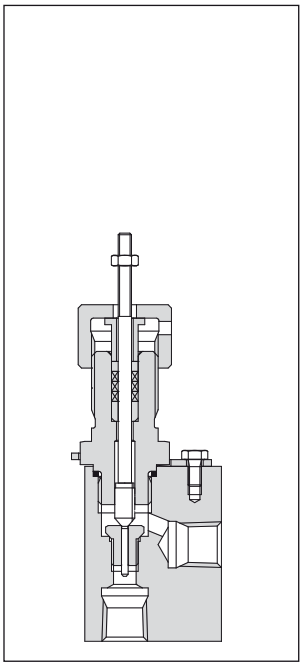
Description

Kammer series 080000/081000 low flow laboratory valves are designed for precision controlling. The body is manufactured from bar stock stainless steel and is easily adapted to meet application requirements. Together with the series 1 actuator it forms an extremely compact control valve.

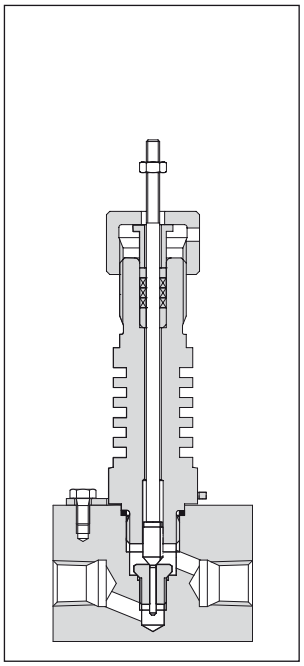
On request a special calculating programme is available to define the C_{vs}-values and the actual rangeability.



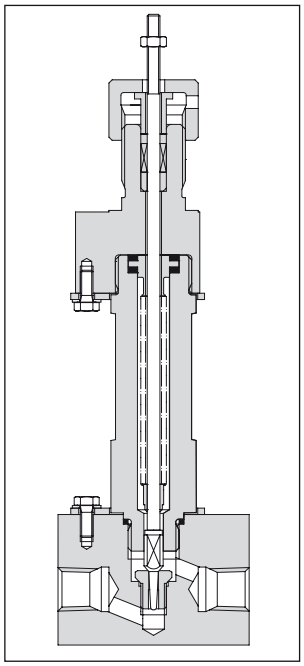
Globe valve



Angle valve



Valve with normalising fins

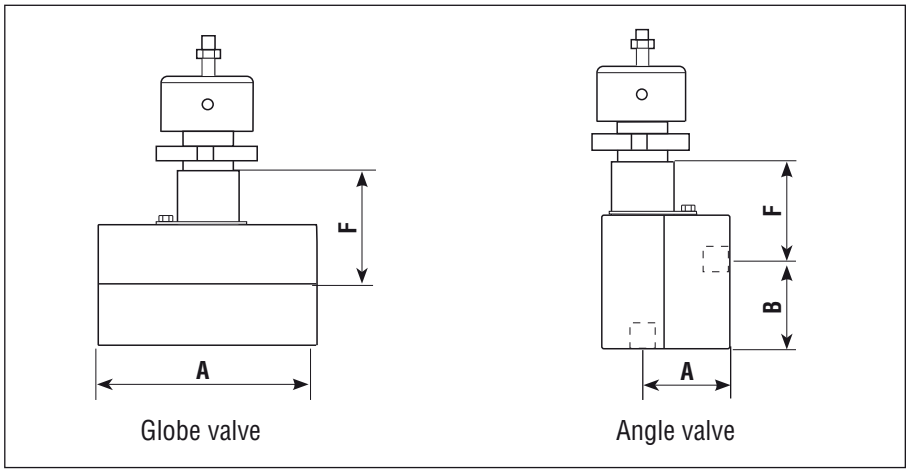


Valve with bellows seal

Technical Data

Valve body style	Globe valve, angle valve
Characteristics	Equal%, Linear, On-Off
Seat leakage	≤ 0.01% of rated C_{vs} (ANSI Class IV).
Valve plug and Seat ring	See table page 4
Packing	PTFE for temperatures up to 200 °C (392 °F) Grafoil for temperatures above 200 °C (392 °F) PTFE packing for oxygen service Packing according to German clean air act
Body gasket	316 stainless steel or as body material
Extensions	Standard, normalizing fins, bellows seal
C_{vs}-values	See table page 4
Connections	G ¼˝ or NPT ¼˝ internal thread. Other connections on request.
Valve body	316 stainless steel, Hastelloy B/C, Nickel, Monel, Titanium optional.

Dimensions mm (in.) and Weights kg (lb.)



Globe valve Length Internal thread	Angle valve Length Internal thread		Dimension F			Weight		
			Standard	Fins	Bellows	Standard	Fins	Bellows
A	A	B						
60 (2.4)	29 (1.1)	29 (1.1)	30 (1.2)	70 (2.6)	120 (4.7)	0.7 (1.5)	0.8 (1.8)	1.0 (2.2)

Valve Code

0	8	0	0	P	0

Valve type		
		Series
080	Globe valve	080 000
081	Angle valve	081 000

Bonnet extension	
0	Standard
1	Normalising fins
3	Bellows seal

Actuator	
H1	Manual handwheel
37	Pneumatic with integral positioner
P0 P1	Pneumatic, Series 1
E2	Electric motor

Standard C_{vs} Values

				Plug	1.4571	Alloy 6	Alloy 6	Alloy 6	1.4571	Multihole	Hast C	IN/NI/MO	
				Seat	1.4571	1.4571	1.4122	Alloy 6	PTFE	Alloy 6	Hast C	IN/NI/MO	
Kvs / Cv values													
Kvs	Trim#	Cv	Trim#	seat dia.									
0,000054	2T	0,000063	.08T	2 / 0.08			x						
0,000068	2S	0,000079	.08S	2 / 0.08			x						
0,000084	2R	0,000098	.08R	2 / 0.08			x						
0,0001	2Q	0,00012	.08Q	2 / 0.08			x						
0,00013	2P	0,00015	.08P	2 / 0.08			x						
0,00016	2O	0,00019	.08O	2 / 0.08			x						
0,0002	2N	0,00023	.08N	2 / 0.08			x						
0,00025	2M	0,00029	.08M	2 / 0.08			x						
0,00031	2L	0,00036	.08L	2 / 0.08			x						
0,00039	2K	0,00045	.08K	2 / 0.08			x						
0,00048	2J	0,00056	.08J	2 / 0.08			x						
0,00064	2I	0,00075	.08I	2 / 0.08			x						
0,00084	2H	0,00098	.08H	2 / 0.08			x						
0,0011	2G	0,0013	.08G	2 / 0.08			x						
0,0015	2F	0,0017	.08F	2 / 0.08			x						
0,0019	2E	0,0022	.08E	2 / 0.08			x						
0,0025	2D	0,0029	.08D	2 / 0.08			x						
0,0033	2C	0,0038	.08C	2 / 0.08			x						
0,0046	2B	0,0054	.08B	2 / 0.08			x						
0,0068	2A	0,0079	.08A	2 / 0.08			x						
0,011	3H	0,013	.12H	3 / 0.12		x		x			x	x	
0,017	3G	0,02	.12G	3 / 0.12		x		x			x	x	
0,025	3F	0,029	.12F	3 / 0.12		x		x			x	x	
0,04	3E	0,047	.12E	3 / 0.12		x		x			x	x	
0,063	3D	0,074	.12D	3 / 0.12		x		x			x	x	
0,1	3C	0,12	.12C	3 / 0.12	x	x		x	x		x	x	
0,16	3B	0,19	.12B	3 / 0.12	x	x		x	x		x	x	
0,25	3A	0,29	.12A	3 / 0.12	x	x		x	x		x	x	

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