



Kammer Series 080000

Low Flow Valve



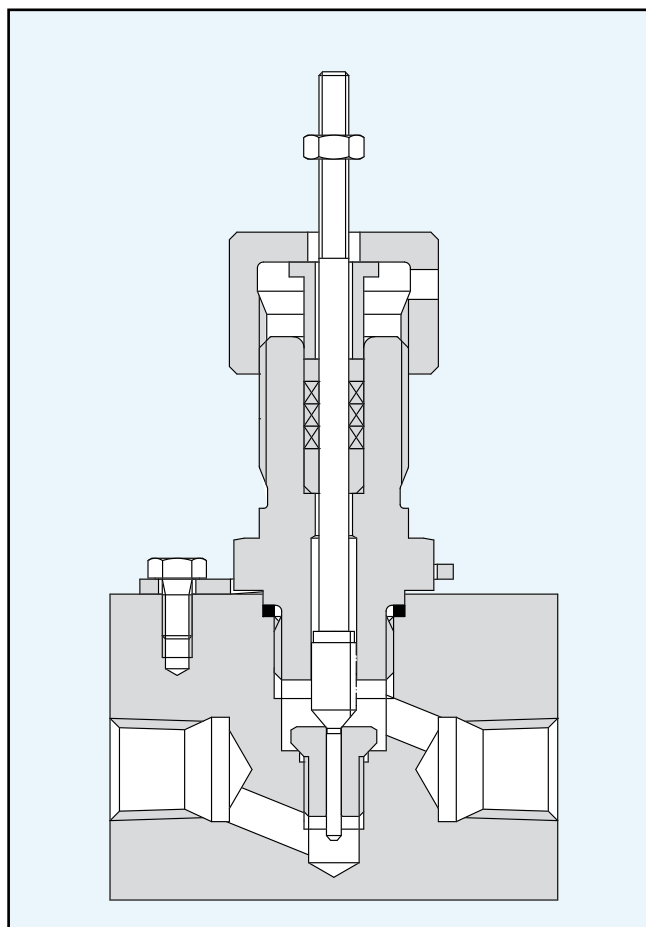
Experience In Motion

Series 080000

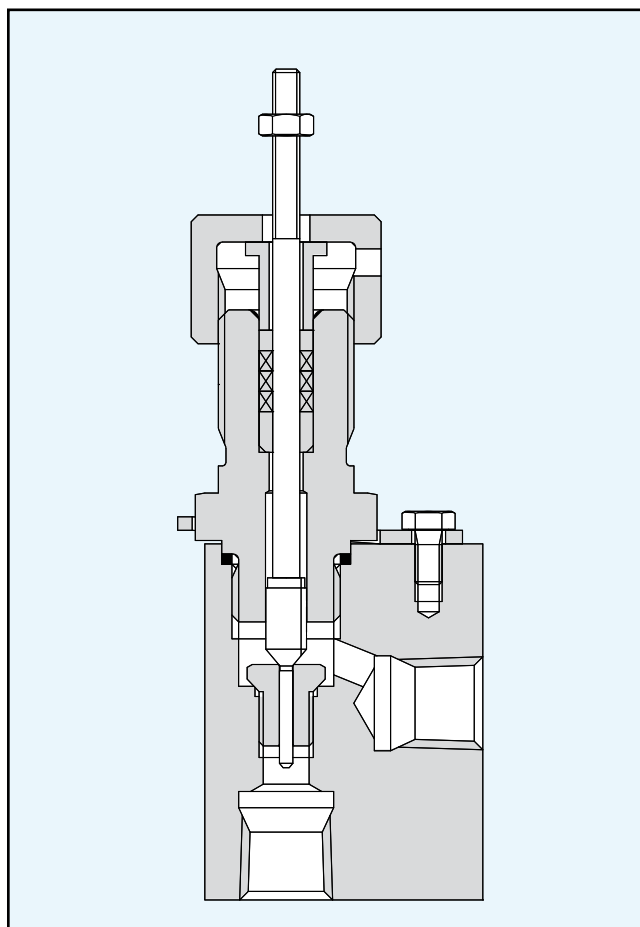
Description

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 K_{vs} -values and the actual rangeability.



Globe valve



Angle valve

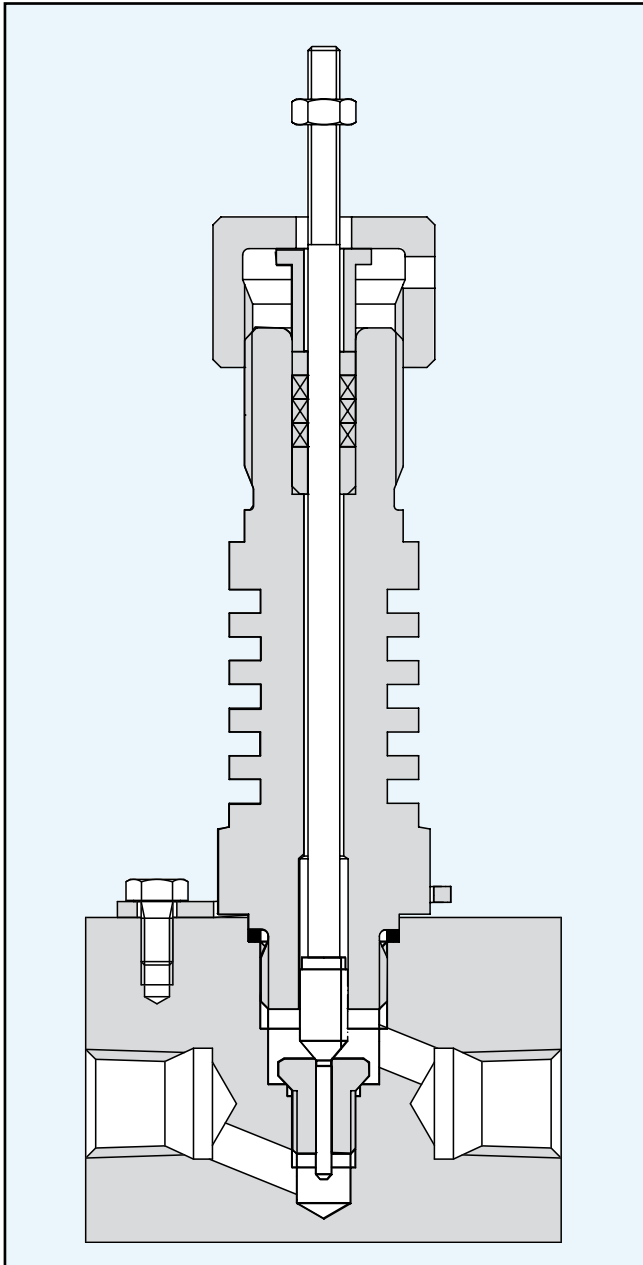
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Technical Data

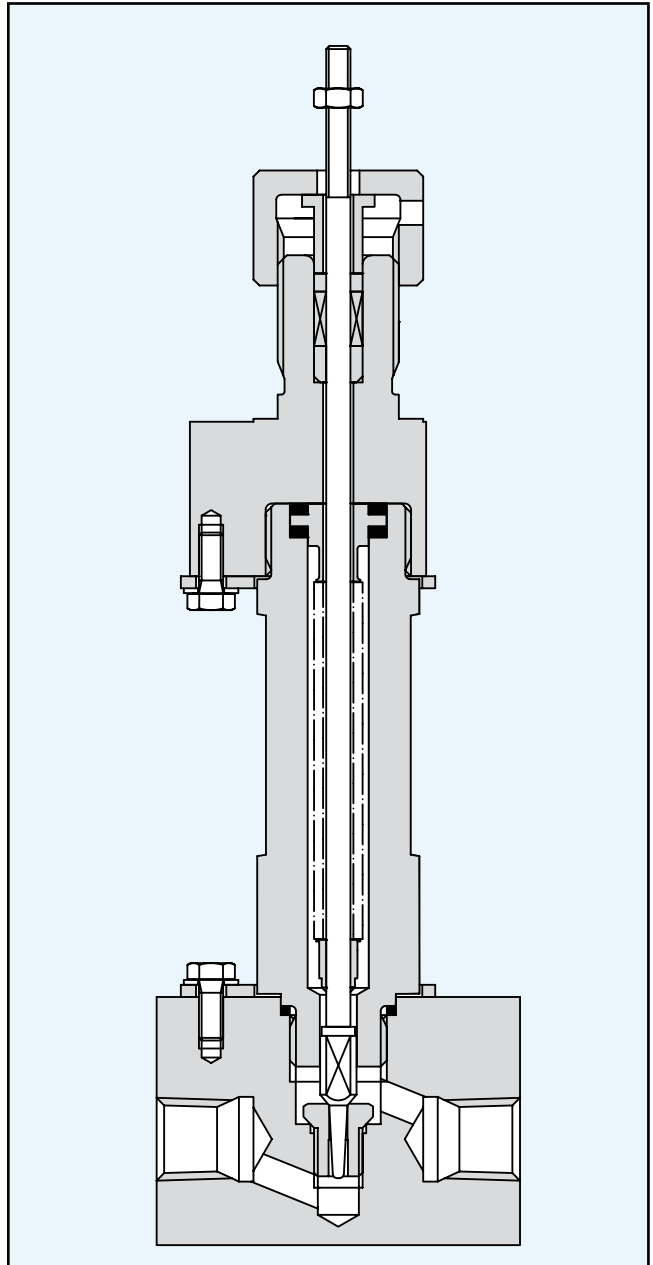
Valve body style	Globe valve, angle valve
Characteristics	Equal%, Linear, On-Off
Seat leakage	$\leq 0.01\%$ of rated k_{vs} (ANSI Class IV).
Valve plug and Seat ring	See table page 6
Packing	PTFE for temperatures up to 200 °C Grafoil for temperatures above 200 °C PTFE packing for oxygen service Packing according to German clean air act
Body gasket	316 stainless steel or as body material
Extensions	Standard, normalizing fins, bellows seal
K_{vs}-values	See table page 6
Connections	G 1/4" or NPT 1/4" internal thread. Other connections on request.
Valve body	316 stainless steel, Hastelloy B/C, Nickel, Monel, Titanium optional.

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Designs



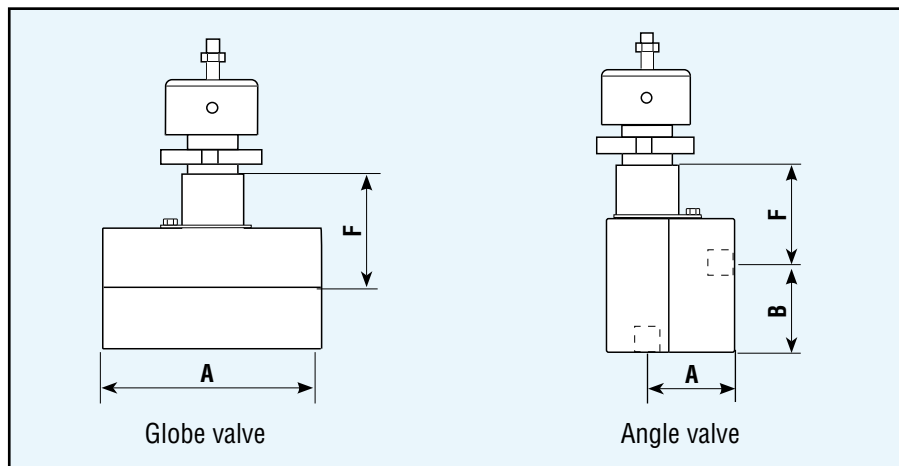
Valve with normalising fins



Valve with bellows seal

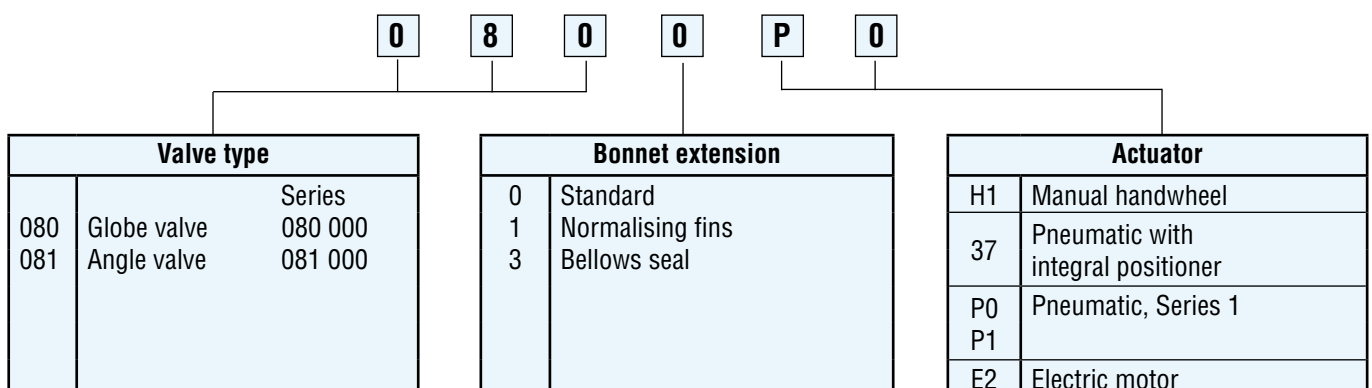
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Dimensions (mm) and Weights (kg)



Globe valve Length Internal thread	Angle valve Length Internal thread		Dimension F			Weight		
	A	A	Standard	Fins	Bellows	Standard	Fins	Bellows
A	A	B						
60	29	29	30	70	120	0.7	0.8	1.0

Valve Code



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Standard K_{vs} Values

K_{vs} Value*	Reynolds Factor Kämmer	Stroke	Stem diameter (mm)	Seat diameter (mm)	Rangeability**	Standard plug material	Standard seat material	Characteristic Linear	Characteristic equal%	Alternative materials for seat/plug	
										Tungsten carbide; Hastelloy C	Nickel; Monel; Titanium; Alloy 6
0.000001	0.019	10	4	2	25:1	Alloy 6	1.4122		X		
0.0000016	0.024								X		
0.0000025	0.030								X		
0.000004	0.038								X		
0.0000063	0.049								X		
0.00001	0.062	10	4	2	25:1	Alloy 6	1.4122		X		
0.000016	0.079								X		
0.000025	0.100								X		
0.00004	0.128								X		
0.000063	0.162								X		
0.0001	0.206	10	4	2	25:1	Alloy 6	1.4122		X	X	
0.00016	0.249								X	X	
0.00025	0.298								X	X	
0.0004	0.360								X	X	
0.00063	0.432								X	X	
0.001	0.520	10	4	2	25:1	Alloy 6	1.4122		X	X	
0.0016	0.628								X	X	
0.0025	0.751								X	X	
0.004	0.871								X	X	
0.0063	0.931								X	X	
0.01	0.940	10	4	3	50:1	Alloy 6	316	X	X	X	X
0.016	0.968							X	X	X	X
0.025	0.983							X	X	X	X
0.04	0.990							X	X	X	X
0.063	1.000							X	X	X	X
0.1	1.000	10	4	3	50:1	316	316	X	X	X	X
0.16	1.000							X	X	X	X
0.25	1.000							X	X	X	X

* $K_{vs} \leq 0.25 = K_v \times F_R$ acc. to IEC 534 (further information on request)

** For calibration conditions

Other Kämmer Low Flow Valves



Kämmer micro-flow series 030000

Kämmer series 030000 ½" low flow valves are designed for precision controlling up to PN40. The body is a precision casting for high finishing accuracy. Together with the series 1 actuator it forms a compact control valve. Upon request a special calculating programme is available to define the K_{vs} -values and the actual rangeability.



Kämmer micro-flow series L80000

With this innovative valve concept, Flowserve Kämmer Valves sets standards in the micro-valve world. From its beginnings in 1966, Kämmer has been considered a world leader for precision and reproducibility in micro-flow applications and now completes its micro-valve series with the L80000 laboratory valve. The patented design with a moving stainless steel ball as the sealing device and the modular construction destine the series L80000 as an "All-rounder" in the areas of laboratory and pilot installation technology. Various options with respect to design and materials leave hardly anything to be desired. With regard to flexibility and adaptability this valve series is best suited to meet your most demanding applications.



Kämmer Laboratory valves series 185000/187000

Kämmer microflow series 185000 and 187000 are ½" laboratory valves designed for precision controlling. The bodies in stainless steel and C-steel are manufactured from forged material, the bodies for all other special materials are manufactured from bar stock. The bodies are, therefore, easy to adapt for application requirements. Together with the series 1 or 2 actuators they form a compact control valve. Upon request a special calculating programme is available to define the K_{vs} values and the actual rangeability.



Germany

Flowserve Essen GmbH
Flowserve Flow Control
Kämmer Ventile
Manderscheidtstrasse 19
45141 Essen
Germany
Tel.: +49 (0) 201 89 19 5
Fax.: +49 (0) 201 89 19 662

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Your contact:

A large, empty rectangular box with a dashed border, intended for the user to provide contact information.

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