



MIL 78000 - Multi-step Anti-cavitation and Low Noise Control Valves

Standard sizes & rating

½" to 6" : ASME 300# to ASME 2500#

Seat leakage class (as per FCI 70.2)

Standard : Class IV & V

Optional : Class VI



Application

Energy sector

- For applications like boiler feed pump min. recirculation, spray control, low load feed water etc,
- For start-up (low load) drum level control in lower capacity boilers

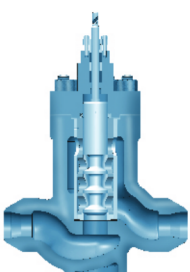
Refinery sector

- For high pressure hydrocarbon services including amine service
- In upstream oil fields, for high pressure injection water

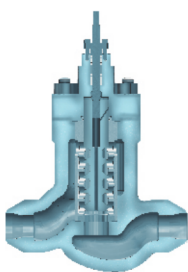
Fertilizer sector

- For high pressure Ammonia Letdown applications

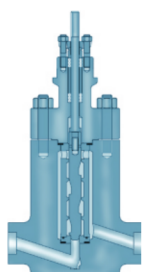
More information: www.ksb-mil.com



Inline Cast Construction



Pressure Balanced Construction in larger sizes to optimize actuator selection

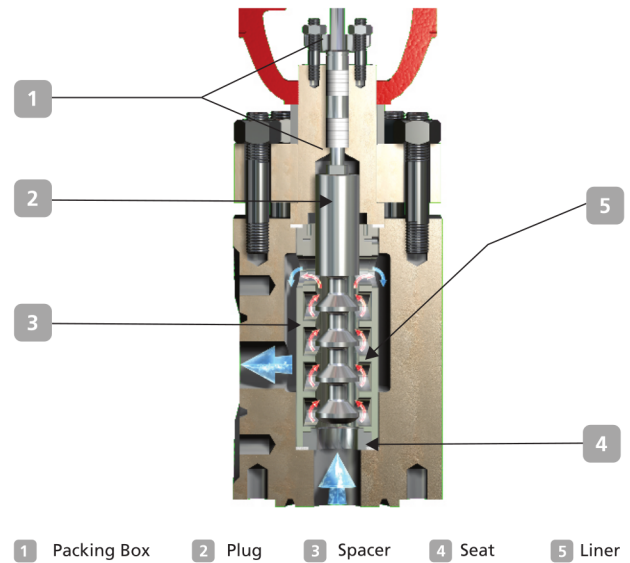


Low Flow Control Trims

MIL 78000 - Multi-step Anti-cavitation and Low Noise Control Valves



- 1 Multiple-step axial-flow high resistance trim
- 2 Low pressure recovery
- 3 Special soft seat design (optional)
- 4 High allowable pressure drops
- 5 High performance material is standard
- 6 Variety of body configuration offerings
- 7 Simple trim maintenance
- 8 Tight shut-off & seat protection
- 9 Special Spray Trim



1 Packing Box 2 Plug 3 Spacer 4 Seat 5 Liner

Model Decodification

1 st -	2 nd -	3 rd 7	4 th 8	5 th -	6 th -	7 th -
Actuator Type		Body Series		Body Type	Service	Trim Type
20. Hand Operated 37. Direct Spring Diaphragm 38. Reverse Spring Diaphragm 67. Direct Piston Cylinder 68. Reverse Piston Cylinder 90. Electrical Actuator		78. Multiple Stage Anti-cavitation & Low Noise Control Valve		0. Angle 1. Inline	0. Liquid 1. Gas or Steam	1. Trim A or Gas/Steam 2. Trim B 3. Trim B+ 4. Special

General Data

Body	Type	High capacity Globe or Angle
	Recommended flow directions	Flow to open
Bonnet	Type	Stud bolted
	Temperature range	Standard bonnet: -29° C to 260° C
Gland Seal	Type	Adjustable double sealed packing box with PTFE or Graphite moulded split rings
	Option	Eco lock* (varying density for low emission, PTFE or Graphite) or PTFE V rings
	Temperature range	≤ 180° C for PTFE, > 180° C for Graphite
Trim	Type	Multiple step, Anti-cavitation
	Plug type	Unbalanced or pressure balanced with self energized seals (> 2")
	Seat type	Clamped (Quick Change) with metal or soft seat
	Guiding	Cage guiding
	Rangeability	1:100
	Characteristic	Mod. Linear

* Meets the stringent Class A emission requirement as per ISO 15848