

41005 API 6A Series Control Valves

The 41005 API 6A Series consist of single ported, cage guided control valves designed to meet API 6A standard for high pressure applications.

High Pressure Body/Bonnet

This forged globe body contains a durable metal seal between the body and bonnet providing a tight seal while handling pressures up to 15K psi (1034 bar).

Body/Bonnet Metallic Seal

The seal used is a metallic VG seal that is self and pressure energized. The seal will ensure low leakage through the body/bonnet joint.

Integral Cage Seat-Ring Trim Design

The 41005 API 6A trim design offers an Integral Seat-ring/Cage for easy maintenance. Available as a linear flow characteristic, it is offered with standard trim, single stage **Lo-dB™** and double stage Lo-dB.

Leakage Class

Meets class IV and V leakage standard, as per IEC-60534-4.

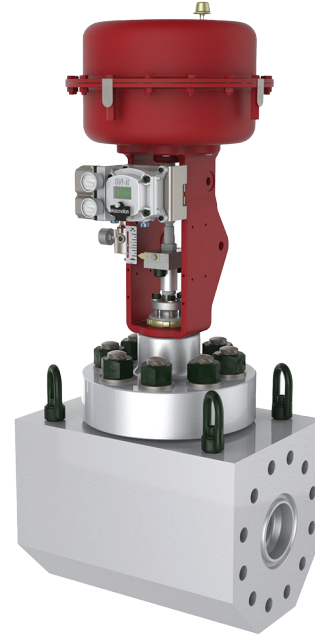
Hardened Trim

Hardened trim provides protection and longer trim life for expected high pressure applications.

Size and ratings

Pressure ratings: API class from 10K psi (690 bar) to 15K psi (1034 bar)

End Connections and Shut-Off



Packing

Both standard and fugitive emission packing (certified to ISO-158548-1) options are available.

Nace Compliance

The 41005 API 6A Series is available for Sour Service Applications, using design and construction methods in accordance with ANSI/NACE MR0175/ ISO 15156-1.

Valve Size	Valve Ends Size (NPS)	Body Rating	Packing Material	Seat Type	St. St. F6NM		St. St. F51		St. St. F55		Inconel 718 TM		Seat Leakage Class IEC 60534-4 / ANSI/ FCI 70-2	
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	IV	V
3"	4" 1/16	API 10K API 15K	PTFE	Metal	-75°F	+350°F	-50°F	+356°F	-50°F	+356°F	-76°F	+356°F	IV	V
4"	5" 1/8				(-60°C)	(+180°C)	(-46°C)	(+180°C)	(-46°C)	(+180°C)	(-60°C)	(+180°C)		
6"	7" 1/16													
8"	9"													
10"	11"													

Notes:

- For F51 material construction, only API 10K body rating is available.
- 41005 API 6A should be closed only for a short period of time. There is a risk of damaging trim parts for a long period of closing.
- Lifting lugs are provided for easy handling.
- Cage mechanical pressure drop is limited as follows: 7252 psi (500 bar) for double cage, 4351 psi (300 bar) for single stage Lo-dB, 870 psi (60 bar) for ported cage.