

21000 API 6A Series Control Valves

The 21000 Series single ported unbalanced trim, top heavy guided control valves offer the option for API 6A 21000 Series valve from 0.75"–1" with API class 10KPSI [690bar] and 15 KPSI [1034 bar] for high pressure applications.

Forged Body

Supplied with a forged body to accommodate pressures up to 15KPSI (1034 bar).

Integral Bonnet

Offered with an integral bonnet for compact design, reduced weight and one less leak path.

Integral Internal Components

Seat and cage are one piece allowing for ease of installation and maintenance.

Flow Characteristic

Linear Characteristic is standard.

Trim Options

Full area and reduced trims are available for optimal control.

Leakage Rate

Class IV and Class V per IEC 60534-4

Hardened Trim

For longer service life, hardened trim is provided to handle high pressure.

Packing

Standard packing and environmental LOW E packing options are available to comply with application requirements.

Sour Service

NACE MRO175/ISO 15156-1 compatible materials are available.



Size and ratings

Pressure ratings: API class from 10 kPSI [690 bar] to 15 kPSI [1034 bar]

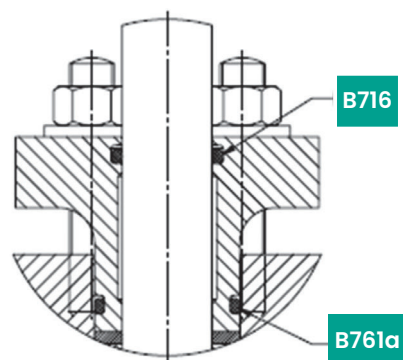
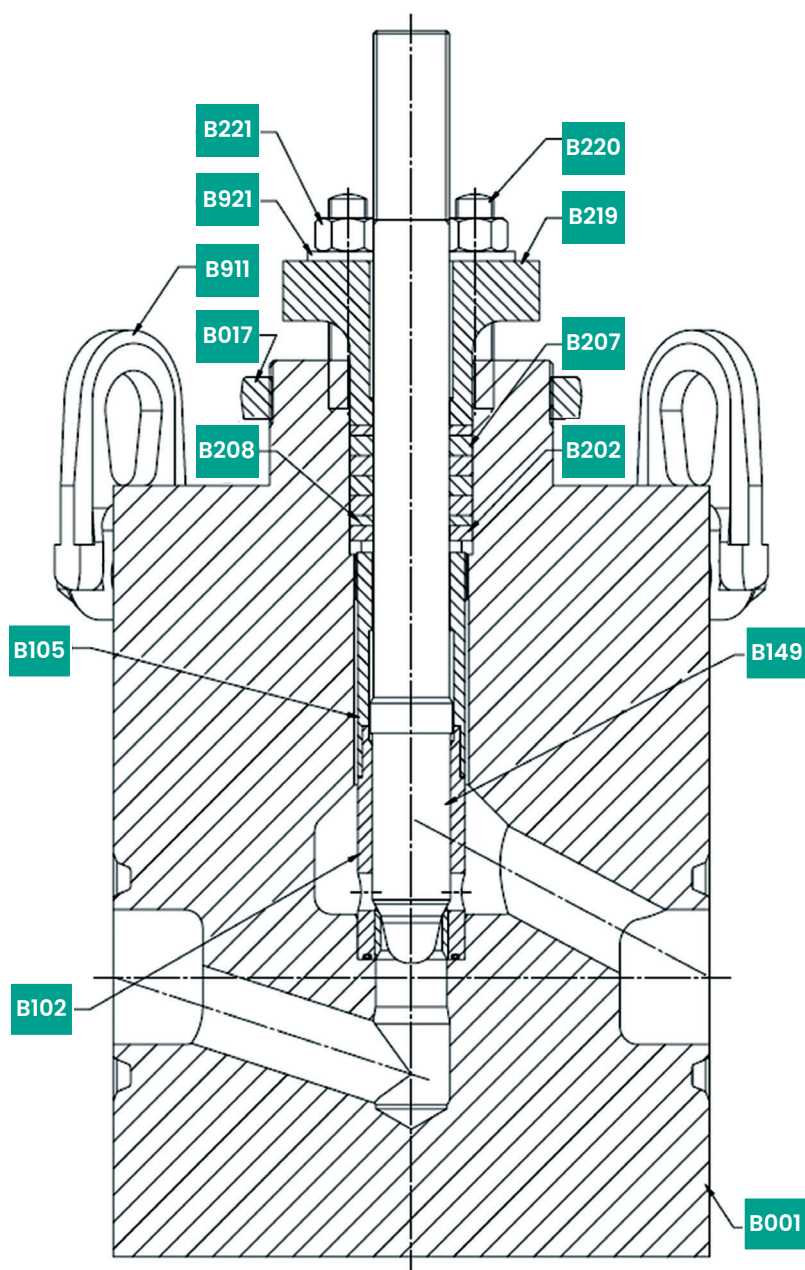
End Connections and Shut Off

Valve Size (in)	Valve Ends Size (NPS)	Body Rating	Packing Material	Seat Type	Temperature Range								Seat Leakage Class IEC 60534-4 / ANSI/ FCI 70-2	
					St. St. F6NM		St. St. F51		St. St. F55		Nickel-Alloy 718			
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
0.75 to 1	1 1/16 (1.8125)	API 10K API 15K	PTFE	Metal	-75°F (-60°C)	+350°F (+180°C)	-50°F (-46°C)	+350°F (+180°C)	-50°F (-46°C)	+350°F (+180°C)	-75°F (-60°C)	+350°F (+180°C)	IV	V

Notes:

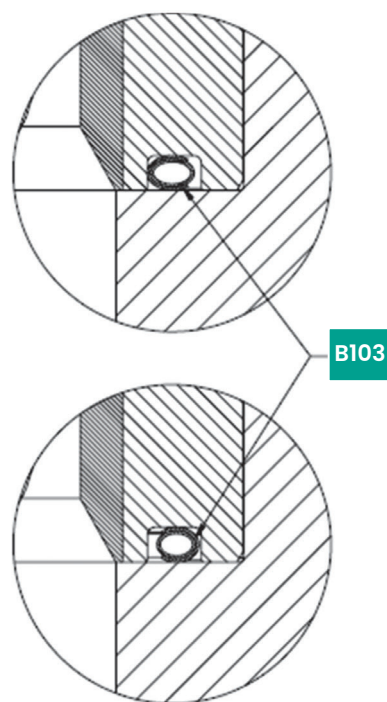
- Pressure drop is limited at 10 kPSI [690 bar] for the 15 kPSI [1034 bar] valve.
- API 6A 21000 valves are designed as control valves, not as isolating valves.
- Lifting lugs are provided for handling.

Materials of Construction



Packing Flange/Follower
O-Ring Detail

Flow-to-Close
Seat-Ring Gasket Detail



Flow-to-Open
Seat-Ring Gasket Detail

21000 Series API 6A Design

Part Tag Codes	Valve Body S/A Part Description	Part Tag Codes	Valve Body S/A Part Description
B001	VALVE BODY	B202	PACKING SPACER
B017	DRIVE NUT	B207	PACKING RING
B102	INTEGRAL SEAT-RING/CAGE	B208	ANTI-EXTRUSION RING
B103	SEAT-RING GASKET	B219	INTEGRAL PACKING FLANGE/FOLLOWER
B105	TRIM RETAINER	B716	O-RING
B149	INTEGRAL PLUG/STEM	B716a	O-RING
B220	PACKING FLANGE STUD	B911	LIFTING LUG
B221	PACKING FLANGE NUT	B921	FLAT WASHER