Ball-Valves
Series 7500

The Series 7500 grooved-end ball valve line consists of a 2" to 6", two piece design, and is available in configurations to address a broad spectrum of application requirements.

The Series 7500 has generous factors of safety for pressure retention and stem torsional strength. In addition, it has a blow-out proof stem design, low operating torque, and high C_v.

The Series 7500 is compliant with NACE MR01-75 when stainless steel trim is specified.

Grooved ends conform to the requirements of AWWA C606 for steel pipe.

For special configurations, contact your ASC Engineered Solutions representative.

For stainless steel, see the stainless steel section.

Pressure-Rating: 800 psig CWP (55 bar) in ASTM A 395 Ductile Iron

Material Specifications

Ductile Iron/Stainless Steel

Body
Ductile Iron ASTM A 395

Endplate
Ductile Iron ASTM A 395

Ball
Stainless Steel 316 or 304

Stem
316 Stainless Steel

Thrust Washer
RTFE

Stem Seal
Flouroelastomer

Retaining Ring
Carbon Steel

Handle
Carbon Steel Zinc Plated

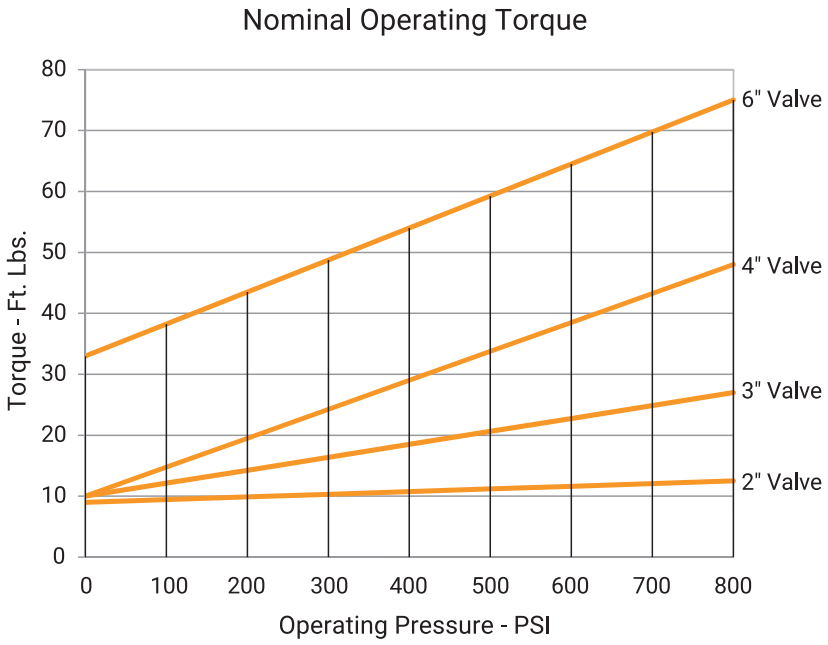
Handle Nut
300 Series Stainless Steel

Seat
RTFE

Body Seal
Viton

Lock Plate
300 Series Stainless Steel

Ball–Valves
Series 7500



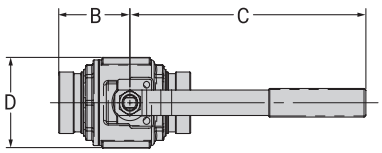
The nominal torque values are for water and lubricating service only.
For dry gasses an additional multiplier of 2 should be applied to the nominal values.
Additional torque of up to 3 times the nominal value may be required to break the ball loose if the valve is not frequently operated.

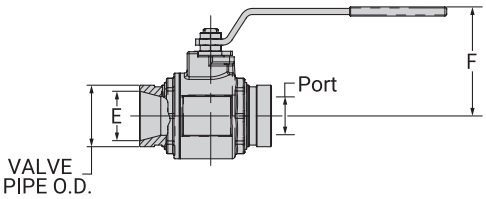
Series 7500 Ball Valves (Ordering Information)

Sample Part Number
4" GI-7512-2 –>

4"	G	I -	75	4	2 -	2
Size	Configuration	Body/End Material	Series	Ball and Stem Material	Seat Material	Operator
2" - 6"	**G** - 2 Way Grooved End	**I** - Ductile Iron ASTM A395	75 - 7500	**4** - 304 Stainless Steel (2" - 4") **6** - 316 Stainless Steel	**2** - RTFE / Flouroelastomer	**2** - 2 Position Locking Handle **3** - Bare Stem (6" only) **M** - Mining Handle (4" & 6" only)

Ball-Valves
Series 7500

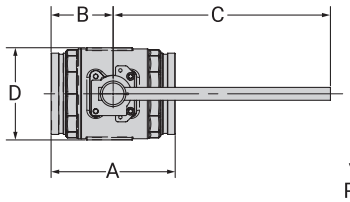


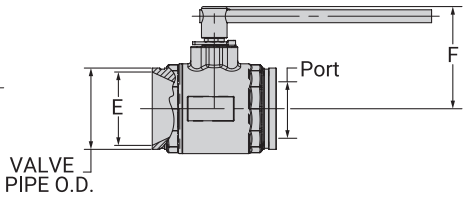


7500 Ball Valve

Size ANSI	O.D.	Nominal Dimensions							Cv	Approx. Wt. Ea.
		A	B	C	D	E	F	Port		
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm		Lbs./Kg
2 50	2.375 60.3	5 1/2 140	2 31/32 75	9 55/64 250	3 1/2 89	1 59/64 49	4 15/64 107	1 1/2 38	170	7.5 3.4
3 80	3.500 88.9	6 9/16 167	3 37/64 91	12 5/8 321	5 5/64 129	2 57/64 74	5 31/64 139	2 1/2 64	425	18.0 8.2
4 100	4.500 114.3	8 1/4 210	4 11/64 106	15 1/64 382	5 29/32 150	3 3/4 95	5 15/16 151	3 76	600	34.0 15.5
6* 150	6.625 168.3	10 7/64 257	5 1/16 129	15 1/64 382	7 33/64 191	5 63/64 152	7 13/32 188	4 102	850	67.0 30.5

*6" sizes come bare stem only. 2 position locking handle sold separately.





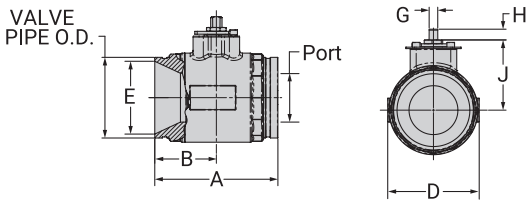
7500 Ball Valve With Mining Handle

Size ANSI	O.D.	Nominal Dimensions							Cv	Approx. Wt. Ea.
		A	B	C	D	E	F	Port		
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm		Lbs./Kg
4* 100	4.500 114.3	8 1/4 210	4 11/64 106	17 23/32 450	5 29/32 150	3 3/4 95	6 55/64 174	3 76	600	35.0 15.9
6* 150	6.625 168.3	10 7/64 257	5 1/16 129	17 23/32 450	7 33/64 191	5 63/64 152	8 21/64 212	4 102	850	68.0 30.9

*Mining handle sold separately.

GRUVLOK
An ASC Engineered Solution

Ball-Valves
Series 7500



7500 Ball Valve With Bare Stem

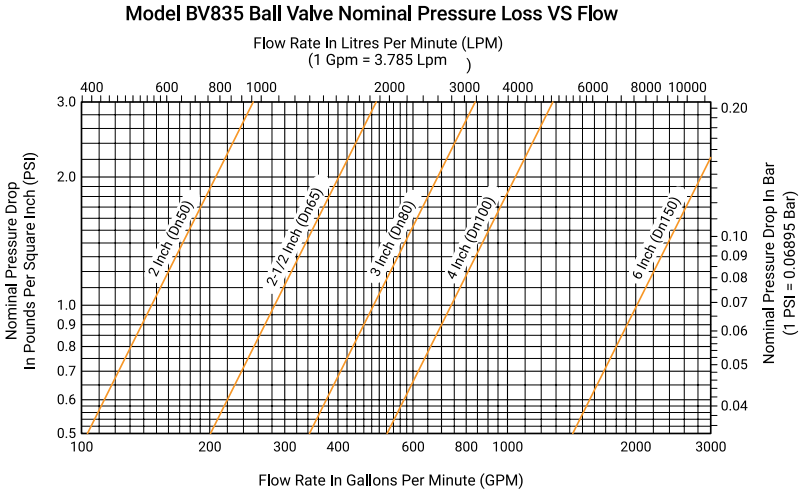
Size ANSI	O.D.	Nominal Dimensions								Cv	Approx. Wt. Ea.
		A	B	D	E	G	H	I	Port		
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm		Lbs./Kg
6 150	6.625 168.3	$10^{7}/_{64}$ 257	$5^{1}/_{16}$ 129	$7^{33}/_{64}$ 191	$5^{63}/_{64}$ 152	$^{45}/_{64}$ 18	$^{7}/_{8}$ 23	$5^{49}/_{64}$ 147	4 102	850	66.0 30.0

Standard option, handle sold separately.

Grooved End Ball Valve with Lever Handle and Gear Operator
Model BV835

The Model BV835 is a ductile iron, grooved end, regular port, two-piece ball valve that provides for efficient control of fluid in piping systems. The Model BV835 is designed and tested in conformance with MSS SP-110 and MSS SP-72. Flow may be from either direction, and the valves may be positioned in any orientation. The valves are furnished with grooved ends for use with Gruvlok grooved couplings. The handle is provided with a device for padlocking in either the open or closed position. The mounting pad is made to ISO 5211 to allow for mounting of power actuators.

Maximum Working Pressure: 1,000 psi (68.9 bar) 2" – 3" (50 – 80mm)
800 psi (55.1 bar) 4" – 6" (100 – 150mm)



Material Specifications

Body
Ductile iron conforming to ASTM A536, Gr. 65-45-12

Body Coating
Black enamel

Body Seal
PTFE

Ball
Type 304 Stainless Steel

Ball Seat
2" - 4" – Glass-filled TFE, 6" – Carbon-filled TFE

Stem
Carbon steel, nickle-plated, Optional: Type 304 Stainless Steel

Stem O-Ring
Fluroelastomer

Stem Seal
PTFE

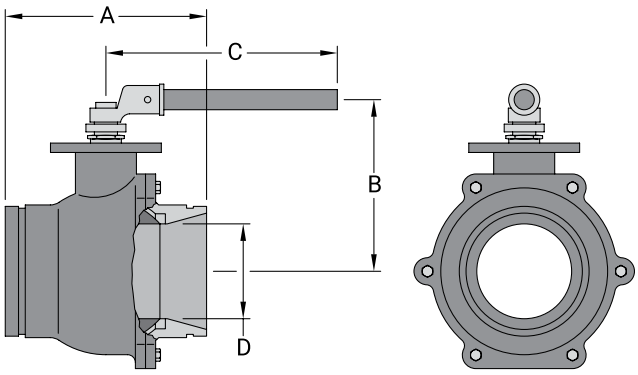
Lever Handle
- 2" – 3" (50 – 80mm): Carbon Steel, Zinc Plated with PVC Plastic
- 4" – 6" (100 – 150mm): Ductile Iron and Carbon Steel

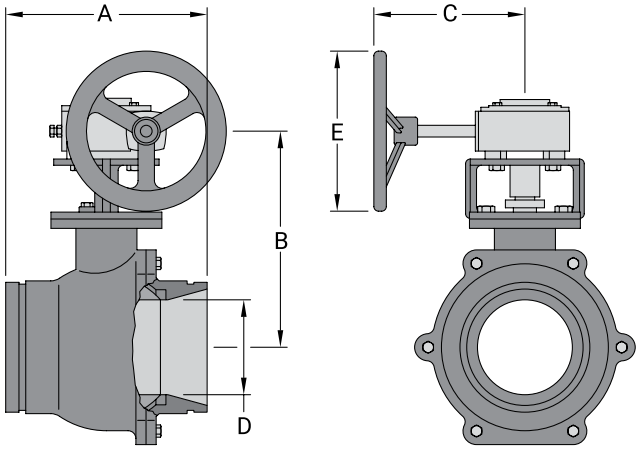
Bracket & Extension Sleeve
Ductile Iron conforming to ASTM A536, Grade 65-45-12 and/or ASTM A395, Grade 65-45-15

GRUVLOK
An ASC Engineered Solution

ASC Engineered Solutions

Grooved End Ball Valve with Lever Handle and Gear Operator
Model BV835





BV835 Ball Valve with Lever Handle

Valve Size	O.D.	Operating Torque	Dimensions				Approx. Wt. Ea.
			A	B	C	D	
In./mm	In./mm	In.-Lbs./Nm	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
2 50	2.375 60.3	150 17	5.50 140.0	3.75 95.0	7.00 178.0	1.50 38.1	6.4 2.9
2½ 65	2.875 73	186 21	6.25 159.0	5.20 132.0	10.43 265.0	2.00 51.0	10.6 4.8
3 80	3.500 88.9	248 28	6.56 167.0	5.63 143.0	10.43 265.0	2.50 63.5	13.4 6.1
4 100	4.500 114.3	398 45	9.45 240.0	5.35 135.8	23.6 600.0	3.50 90.0	60.0 27.2
6 150	6.625 168.3	531 60	10.15 258.0	8.68 220.5	23.6 600.0	4.92 125.0	79.2 36.0

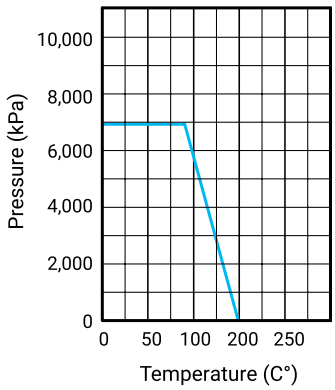
For the first opening or closing of the valve when the valve is not continuously operated, an additional torque of 2.0 – 2.5 times the listed operating torque is normally required. For information on larger sizes, contact an ASC Engineered Solutions Sales Representative.

BV835 Ball Valve with Gear Operator

Valve Size	O.D.	Dimensions					Approx. Wt. Ea.
		A	B	C	D	E	
In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
2 50	2.375 60,3	5.50 140,0	5.38 137,0	8.00 203,2	1.50 38,1	6.00 152,4	18.0 8,0
2½ 65	2.875 73,0	6.25 159,0	5.68 144,2	8.00 203,2	2.00 51,0	6.00 152,4	22.0 10,0
3 80	3.500 88,9	6.56 167,0	7.16 182,0	8.00 203,2	2.50 63,5	6.00 152,4	31.0 14,0
4 100	4.500 114,3	9.45 240,0	8.00 203,2	8.00 203,2	3.50 90,0	6.00 152,4	73.0 33,0
6 150	6.625 168,3	10.15 258,0	10.89 277,0	14.00 356,0	4.92 125,0	12.00 305,0	123.4 56,0

For information on larger sizes, contact an ASC Engineered Solutions Sales Representative.

Model BV835 Ball Valve
Pressure Performance



GRUVLOK
An ASC Engineered Solution