End Entry Trunnion Mounted
Ball Valves
Model: EE/ES

Cornerstone® VALVE
SEVERE SERVICE ENGINEERING

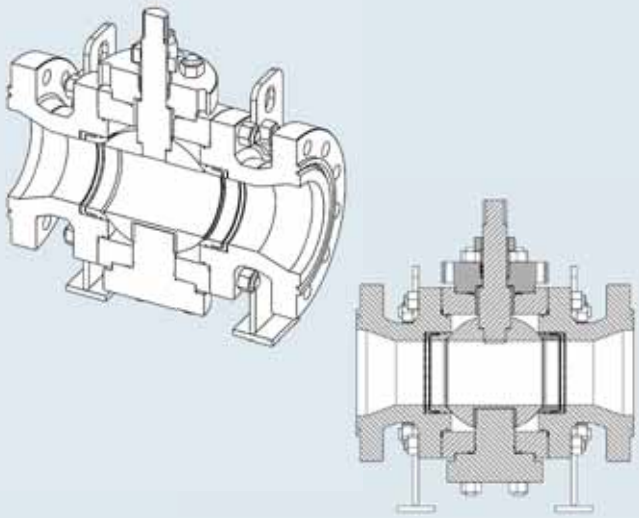
Metal Seated & Soft Seated Options, Cryogenic Option, Compact Option, 2 & 3 Piece Body Options

Sizes:	ANSI 1" - 36" API $1^{13}/_{16}$" - 11"
Ratings:	ANSI / ASME: 150 - 2500 API: 2000 - 20000
Design Standards:	API 6D, B16.34, BPVC Div. 1 Custom
Temperature:	From minus 320 °F to 1500 °F
End Connections:	SW, BW, RF, RTJ, Customer Specified ASME B16.11 / ASME B16.5 / ASME B16.25
Leakage Class Options:	- API 6D & ISO - 5208 - API 598 - Zero Leakage/Bubble Tight - ANSI/FCI 70.2 Class V & VI - API 6A, PSL - 1, 2, 3 & 3G
Actuation:	Manual, Pneumatic, Hydraulic, Electric



Standard Features

1. Metal-to-metal body/bonnet seal: reliable and fire safe
2. Pre-loaded, pressure assisted seating, bi-directional seating: no lateral ball movement along flow bore. Pre-loading provides uniform torque. Pressure assistance assures tighter seal.
3. Engineered stem and seat seals per customer specification
4. Rigid bolted body: optimal strength and versatility
5. Trunnion bearing supports: assures alignment and reduce ball/seat torque
6. Double Block & Bleed



1535 Industrial Dr., Missouri City, TX 77489
www.cornerstonevalve.com
(281) 880-8188

CORNERSTONE VALVE
MADE IN TEXAS

Model: EE

A/R = AS REQUIRED

ITEM	QTY	DESCRIPTION
1	1	Body
2	2	End Flange
3	1	** Ball
4	1	** Stem
5	1	* Lower Trunnion
6	5	* Packing
7	1	* Trunnion Gasket SW
8	1	* Bushing
9	1	* Bushing
10	1	* Thrust Washer
11	1	Bonnet
12	20	Bonnet Stud
13	40	Heavy Hex Nut
14	1	Packing Ring
15	1	Packing Gland
16	2	Packing Stud
17	16	End Flange Stud
18	1	Body Test Port
19	1	* Secondary Stem Seal
20	1	Packing Washer
21	2	** Seat
22	2	Heavy Hex Nut
23	2	Seat Pusher
24	6	* Seat Piston Seal
25	4	Trunnion Stud
26	1	* Bonnet Gasket SW
27	2	* Endflange Gasket SW
28	1	* Thrust Washer
29	1	* Trunnion O-Ring
30	2	* Endflange O-Ring
31	2	* Seat Piston O-Ring
32	48	Seat Spring
33	1	Grease Fitting
34	1	Vented Cap Button Head
35	4	Valve Support Feet
36	4	Lifting Eye

Materials

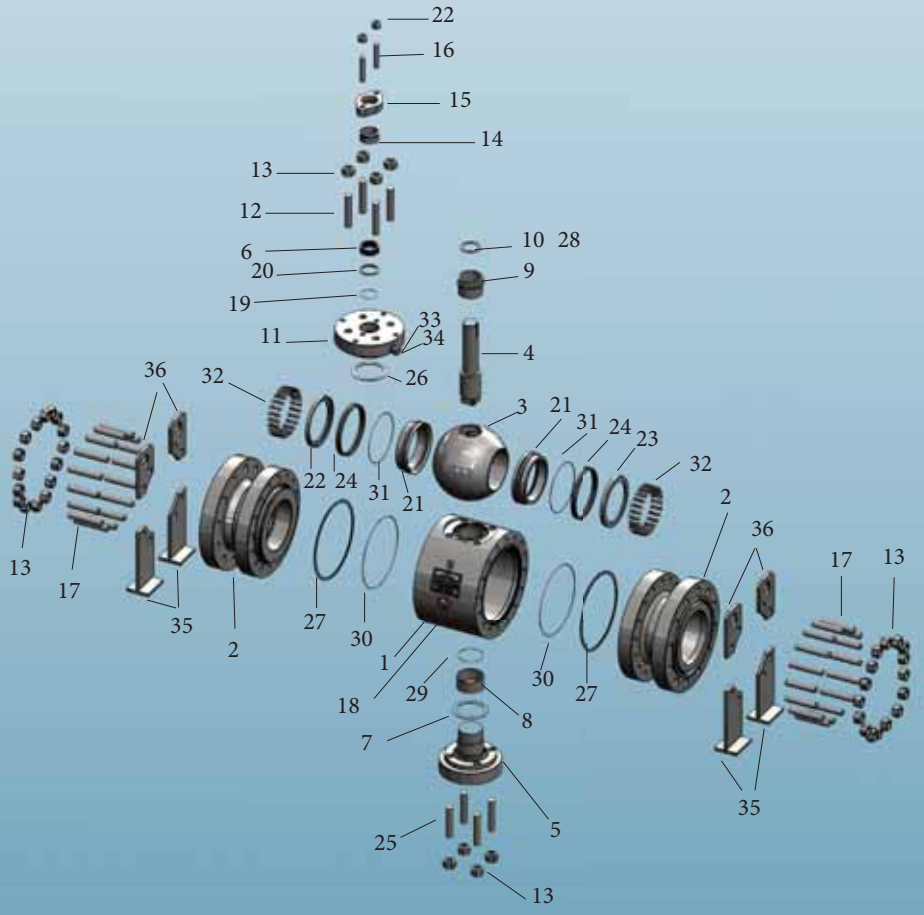
Carbon Steel, Stainless Steel, Duplex, Chrome, Molybdenum, Nickel & Titanium based alloys and other exotic allow available upon request.

Available Options

- Double isolation & bleed
- Steam purge ports/Relief Valves
- Secondary & Tertiary stem seals
- Soft seated or metal seated
- Various ball coatings
- CRA Overlays
- Firesafe
- Materials to NACE standards
- Exotic Alloys
- More available, upon request

Applications

- Oil & gas production
- Natural Gas
- Crude oil
- Ore slurries
- Steam & condensate
- Power Generation



1535 Industrial Dr., Missouri City, TX
77489 www.cornerstonevalve.com
(281) 880-8188

CORNERSTONE VALVE
MADE IN TEXAS

CERTIFICATES & LICENSES


Certificate of Authority to use the Official API Monogram
License Number: 5A-0321

CORNERSTONE VALVE
1535 Industrial Dr., Suite A
Missouri City, Tx

American Petroleum Institute

API 6A: 0321


Certificate of Authority to use the Official API Monogram

CORNERSTONE VALVE
1535 Industrial Dr., Suite A
Missouri City, TX

American Petroleum Institute

API 6D: 0164


Certificate of Authority to use the Official API Monogram
License Number: 6DSS-0073

CORNERSTONE VALVE
1535 Industrial Dr., Suite A
Missouri City, TX

American Petroleum Institute

Effective Date: DECEMBER 30, 2019
Expiration Date: JANUARY 19, 2022

API 6DSS: 0073


API
REGISTRATION NO. Q1-0165

Certificate of Registration

CORNERSTONE VALVE
1535 Industrial Dr., Suite A
Missouri City, TX

API Specification Q1

Design and Manufacture of Valves

Effective Date: DECEMBER 30, 2019
Expiration Date: JANUARY 19, 2022
Registered Since: MARCH 15, 2004

Q1
API Spec Q1 Registered

API Q1: 0165


QMS REGISTERED

Certificate of Registration

APIQR® REGISTRATION NUMBER
0450

This certifies that the quality management system of
CORNERSTONE VALVE
1535 Industrial Dr., Suite A
Missouri City, TX

has been assessed by the American Petroleum Institute Quality Registrar (APIQR®) and found it to be in conformance with the following standard:

ISO 9001:2015

The scope of this registration and the approved quality management system applies to the:

Design and Manufacture of Valves

APIQR® approves the organization's justification for excluding:

No Exclusions Identified as Applicable

Effective Date: DECEMBER 30, 2019
Expiration Date: JANUARY 19, 2022
Registered Since: MARCH 15, 2004

Vice President of Global Industry Services

QUALITY REGISTRAR

ISO 9001:2015