



PROUDLY MADE IN ITALY

ABOUT COMPANY

/ A new player ... with a long history.

Though Grandezza brand is a newcomer in the industry, the history of our Company dates back to 2006.

We started off as a new business division launched inside AST S.p.A., leading Italian manufacturer of ball valves founded in 1951. For 5 years, starting 2006 up to 2011, we have resided at the Company's facility located in Bergamo, north Milan, Italy and have operated as a product-based unit specifically dedicated to the production of trunnion ball valves. Following the expansion and growth rapidly achieved, a split between the 2 business lines operated within the Company was deemed as necessary and strategic for future further development. In 2011, GRZ's shareholders and management decided for a restructuring plan that led to the establishment of a new separate legal entity in charge of other typical valves .

As an independent organization, though still owned by GRZ as 100% shareholder, the new company officially started operations on January, 1st 2012 and moved to a new stand-alone facility located in Bergamo , close to Milan, Italy. The 3.500 square meter premises, where we are still located, house the administrative and commercial offices, as well as a spacious manufacturing shopfloor equipped with state-of-the-art assembly and testing machinery and tools.

This increased production footprint and enhanced capacity allowed to cater to a steadily growing demand by customers and to achieve increasing technical and commercial success.

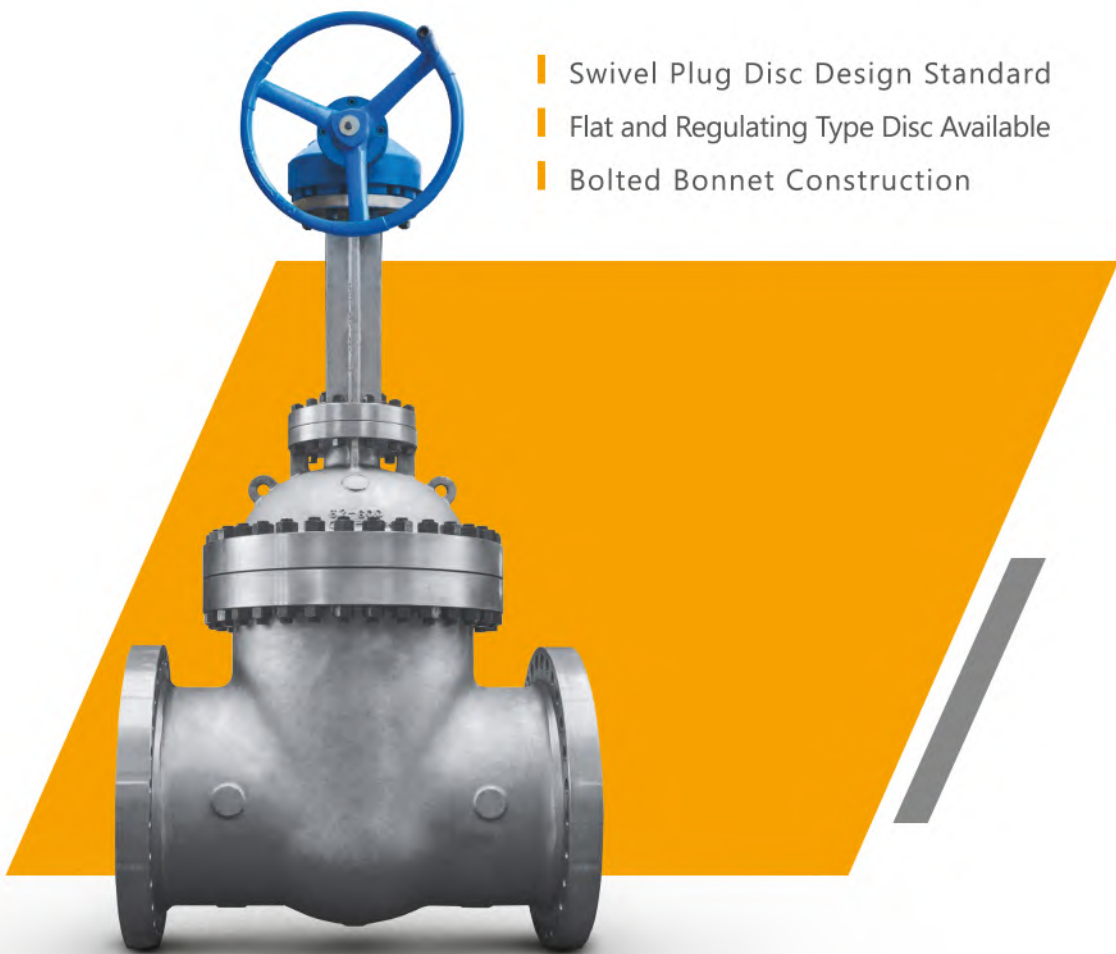
We can rely on a team of local managers and engineers with strong background in product design and manufacturing and count on a door-to-door network of qualified subsuppliers.

The word 'Grandezza' means greatness . Moreover, as a word itself, its meaning is related to 'success' and 'goal achievement', which perfectly fits with our business mission and vision.

Throughout our history, we have earned a reputation of excellence thanks to these assets. Now, we are looking towards the future eager to catch continuous opportunities for improvement and growth.



GLOBE VALVE DESIGN FEATURES



- | Swivel Plug Disc Design Standard
- | Flat and Regulating Type Disc Available
- | Bolted Bonnet Construction

- | Outside Screw and Yoke, Rising Stem
- | Manual Operated, Actuation Available
- | Renewable Threaded-In Backseat Bushing

- Renewable Threaded-In or Welded-In Seat Ring
- Design : BS 1873 / API 600
- Shell Thickness : BS 1873 / API 600



- Flanged Ends : ANSI B16.5(Sizes ≤ 24 ") | MSS SP-44 (Sizes > 24 ") | API 605 (Sizes > 24 ")
- Face-to-Face : ANSI B16.10
- Testing : API 598 / BS 6755 Part 1

SWING CHECK VALVE DESIGN FEATURES

- | Swing Disc Design
- | Regular Opening Type
- | Bolted Cover Construction
- | Internal Hinge Design Standard
- | Through-Body Hinge Pin Design Available
- | Renewable Threaded-In or Welded-In Seat Ring



- | Design : API 6D / BS 1868 / API 600
- | Shell Thickness : API 6D / BS 1868 / API 600
- | Flanged Ends : ANSI B16.5(Sizes \leq 24") | MSS SP-44 (Sizes $>$ 24") | API 605 (Sizes $>$ 24")
- | Face-to-Face : ANSI B16.10 / API 6D
- | Testing : API 598 / API 6D / BS 6755

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CONCENTRIC and ECCENTRIC BUTTERFLY VALVES

DESIGN FEATURES

BRIEFS

Product	Concentric Butterfly Valve
Type	Wafer, Lug, Flanged Type
Size	50A~1200A / API, DIN, JIS
Materials	Ductile, Carbon, Stainless, Bronze
Operation	Lever, Gear, Actuator
Origin	Power Plant, Chemical Industry, Crude Oil etc.



CLASSIFICATION BY CONNECTION TYPE

Wafer	<ol style="list-style-type: none"> 1 Valve to be installed with long bolts between the flanges at adjacent pipe without flange on the valve. 2 Ease handling and light weight. 3 Ease installation, less bolt quantity and low cost. 4 Inconvenient maintenance of adjacent pipe.
Lug	<ol style="list-style-type: none"> 1 Ring shape bolt hole for bolting with flange. 2 Keep pressure inside during repairing adjacent one side pipe. 3 Different flange shape. 4 Possible damage on full face gasket. 5 Hard repairing of corroded bolt. 6 More man-hour for installation.
Flanged	<ol style="list-style-type: none"> 1 Both ends with complete flange. 2 Suitable to general pipe flange. 3 Suitable for shipside valve in the ship. 4 Heavy weight. 5 Same installation as ordinary valve.

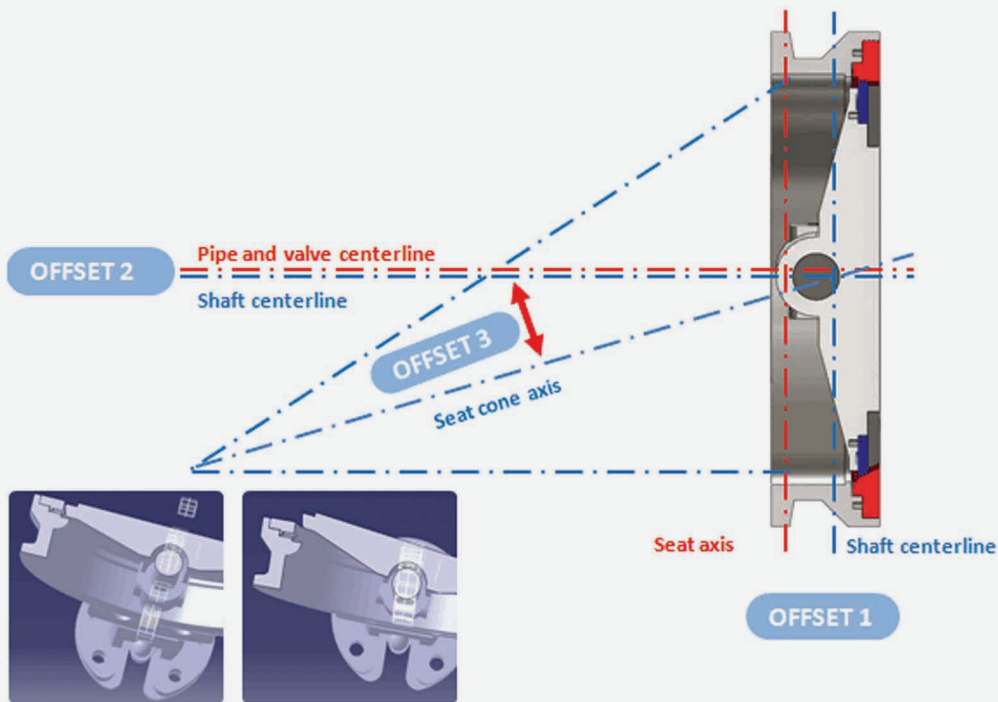
TRIPLE OFFSET BUTTERFLY VALVE

BRIEFS

Product	Triple Offset Butterfly Valve
Type	Wafer, Lug, Flanged(D/F) Type
Size	80A~600A / API, DIN, JIS
Materials	Ductile, Carbon, Stainless, Bronze
Origin	Lever, Gear, Actuator



THE TRIPLE-OFFSET GEOMETRY



Application of piping system

- Petroleum refinery
- Fossil power plant
- Petrochemical plants
- Fire safe line
- Nuclear power plant
- Cryogenic services
- Exhaust gas line & Steam line

FLOATING BALL VALVE

DESIGN FEATURES

/ GENERAL FEATURES

- | 2 piece bolted body design for ease of field service and maintenance
- | Cast and Forged steel
- | Class Rating: 150, 300 & 600, 900 & 1500
- | Fire safe design
- | Standard valves meet NACE
- | Extreme low torque for actuation savings
- | ISO 5211 mounting flanges
- | High life cycle
- | Locking device to API 608
- | Standard document package BS/EN 10204-3.1

/ SEAT DESIGN FEATURES

- | Absolute seal in low and high pressure
- | RPTFE in 150 & 300 ASME; Devlon V in 600-1500 ASME
- | Self-relieving seats for automatic internal cavity relief

/ CERTIFICATION & TESTING

Design Standard API 608 API 6D CSA Z245.15 CSA B51 ISO 17292

Face to Face ASME B16.10

Flange ASME B16.5

Marking MSS SP-25

Inspection API 598

Pressure & Temp ASME B16.34

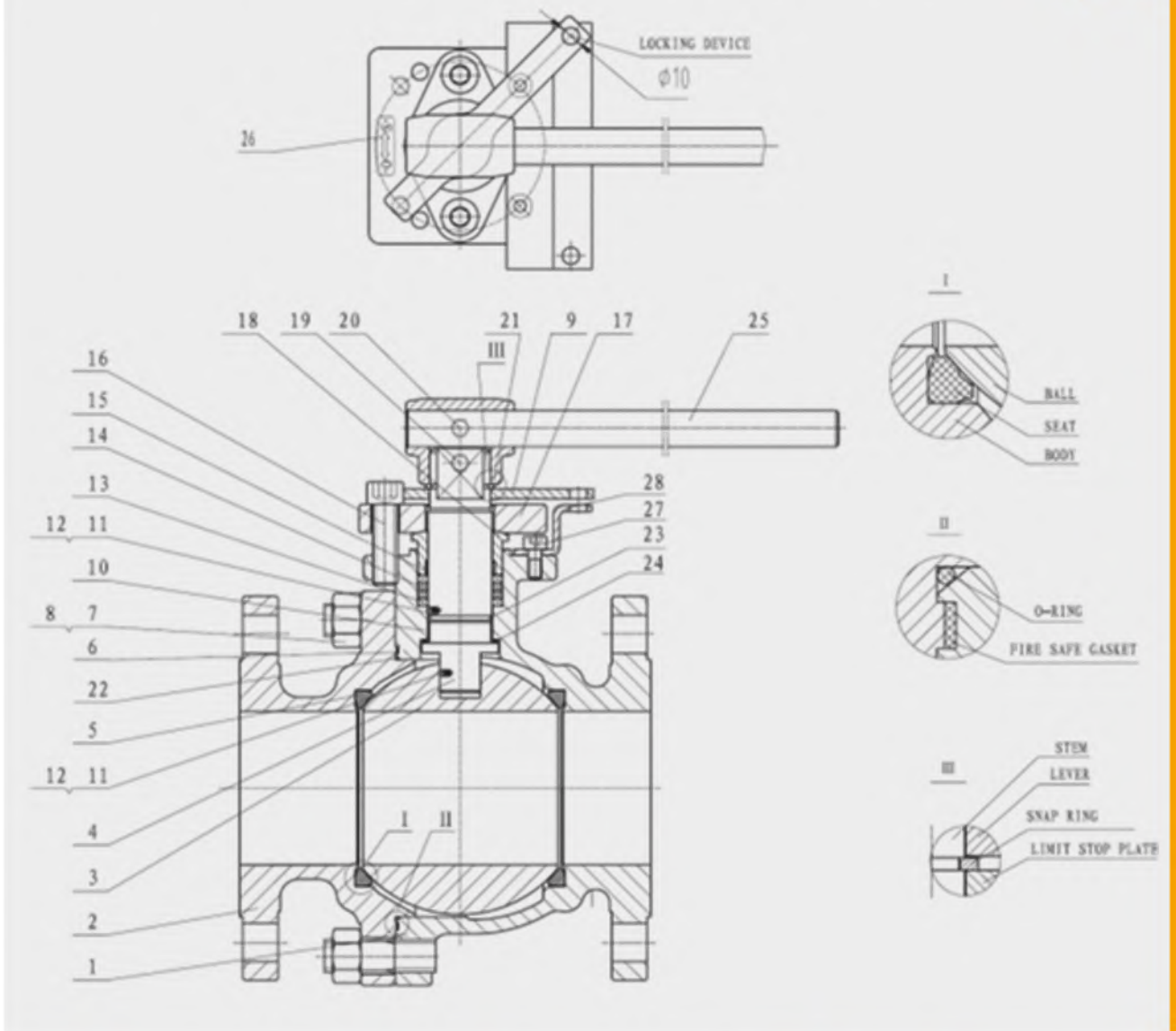
Quality MSS SP-55

Fire Safe Design ISO 10497, API 607

Sour NACE MR 0175 ISO 15156

Pressure Testing API 6D and low pressure air seat test

Floating Ball Valve, Full & Reduced Port, Lever Operated



ITEM | DESCRIPTIONS

1	Body
2	End Cap
3	Ball
4	Stem
5	Seat
6	Fire Safe Gasket
7	Nut
8	Stud
9	Limit Stop Plate
10	Bearing

ITEM | DESCRIPTIONS

11	Antistatic Ball
12	Antistatic Spring
13	Fire Safe Packing
14	Fire Safe Packing
15	Bearing
16	Allen Head Bolt
17	Packing Gland Flange
18	Packing Gland Ring
19	Hex Head Bolt

ITEM | DESCRIPTIONS

20	Hex Head Bolt
21	Snap Ring
22	Body Seal O-Ring
23	Stem Seal O-Ring
24	Thrust Washer
25	Lever
26	Indicating Plate
27	Allen Head Bolt
28	Locking Plate

TRUNNION BALL VALVE

DESIGN FEATURES

/ DESIGN STANDARDS

- | Body joint integrity and fire safety is ensured by dual independent seals
- | A tight tolerance overlapping metal to metal body joint ensures valve is capable of handling pipeline stress and misalignment.
- | Standard forged body, bonnet and ball ensures high strength and higher integrity grain structure
- | All trunnion ball valves are equipped with a locking device to API 608. For gear operated valves, this feature is included on the gear operator
- | All trunnion ball valves are equipped with ISO 5211 actuator mounting flanges
- | Standard trim in either full stainless steel (DBB only) or 3 mil high phosphorus electroless nickel plated for superior corrosion protection

/ STEM DESIGN FEATURES

- | Blow out proof stem
- | Stems and trunnions are manufactured separately from the ball and supported by a bearing and thrust washer to ensure low consistent torques
- | All valves include emergency secondary stem sealant injection system

/ SEAT DESIGN FEATURES

- | Special wide seat insert design provides an increased life in difficult service conditions
- | Seat ring sealing includes separate graphite seals for fire safe design and O-rings for tight sealing

/ CERTIFICATION & TESTING

- | Tagging is per the requirements of API 6D, MSS SP-25 and CSA Z245.15

/ REFERENCE STANDARDS

Design Standard API 608 | API 6D | ISO 17292 | CSA Z245.15 | CSA B51

Face to Face ASME B16.10

Flange ASME B16.5

Marking MSS SP-25

Inspection API 598

Pressure & Temp ASME B16.34

Quality MSS SP-55

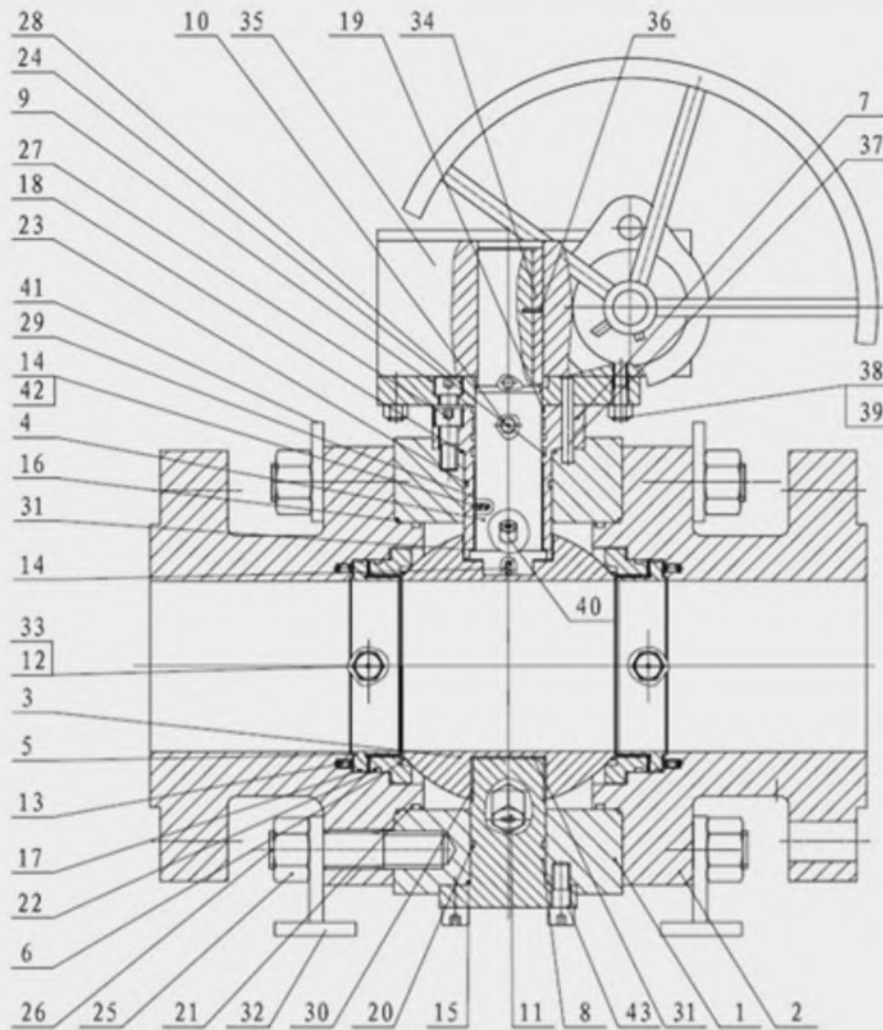
Fire Safe Design ISO 10497 | API 607 | API 6FA

Sour NACE MR0175 | ISO 15156

Pressure Testing API 6D | ISO 5208

Documentation BS/EN 10204-3.1





ITEM	NAME	ITEM	NAME	ITEM	NAME
1	Body	16	Fire Safe Gasket	31	Thrust Washer
2	Left / Right Body End Caps	17	Fire Safe Gasket	32	Hex Head Bolt
3	Ball	18	Fire Safe Gasket	33	Check Valve
4	Stem	19	Fire Safe Gasket	34	Key
5	Seat	20	Trunnion Seal O-Ring	35	Lever Or Gear
6	Seat Ring	21	Body Seal O-Ring	36	Pin
7	Upper Cap	22	Seat Seal O-Ring	37	Pin
8	Trunnion	23	Upper Cap Seal O-Ring	38	Hex Head Bolt
9	Limit Stop Plate	24	Stem Seal O-Ring	39	Indicating Plate
10	Sealant Injection Valve	25	Stud	40	Vent Head
11	Drain Valve	26	Nut	41	Lever Head
12	Sealant Injection Valve	27	Allen Head Bolt	42	Antistatic Ball
13	Seat Spring	28	Allen Head Bolt	43	Allen Head Bolt
14	Antistatic Spring	29	Bearing		
15	Fire Safe Gasket	30	Bearing		

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QUALITY IS NOT AN ACT. IT IS A CUSTOM

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