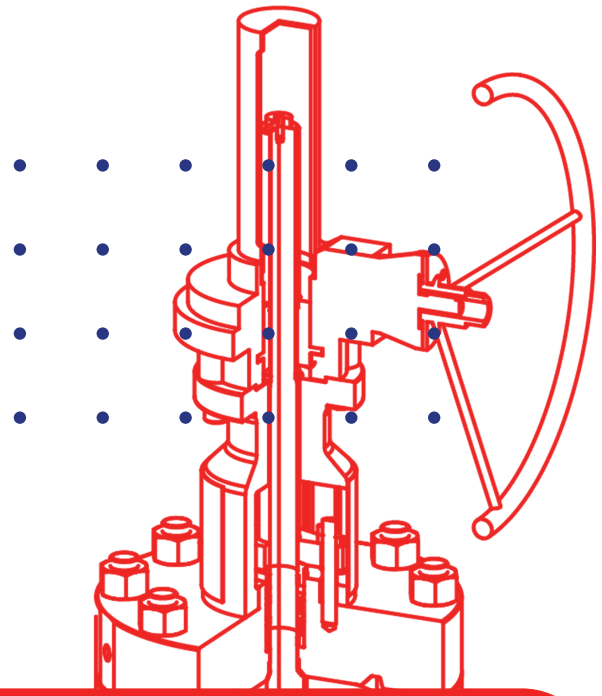
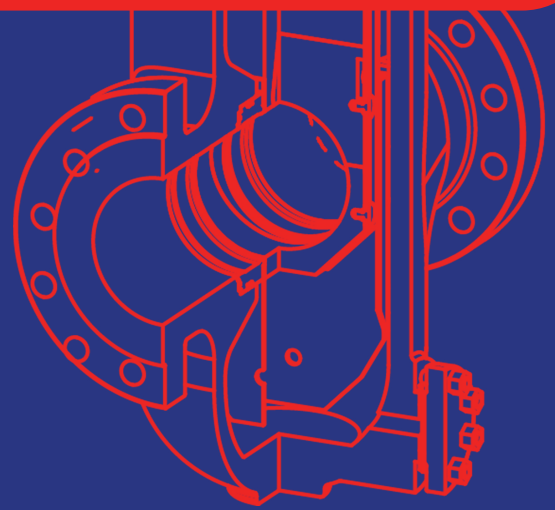
GAZAR
Sadra Mahan Parsian



Through Conduit Gate Valve

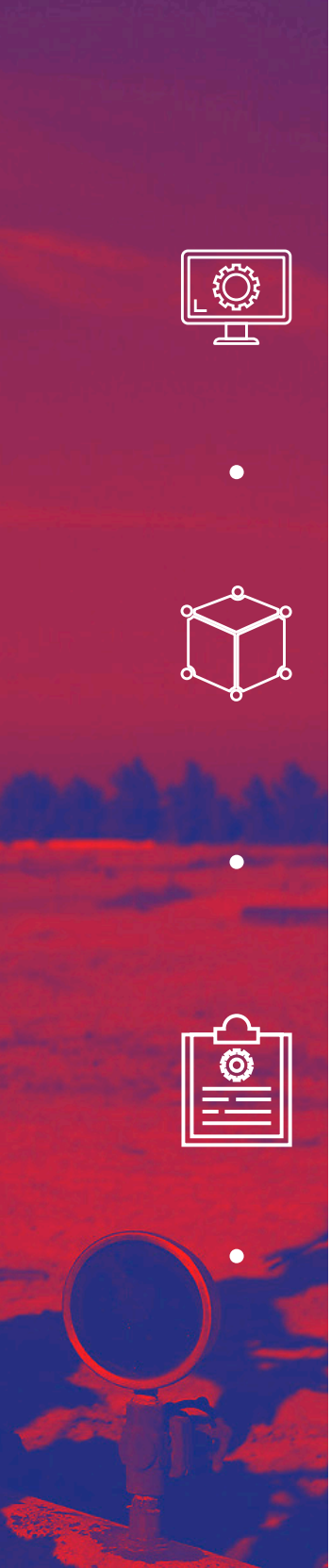


For on/off, ESDV (Emergency Shutdown Valve) and HIPPS (High Integrity Pressure Protection System) valve applications

About Through Conduit Gate Valves

Through Conduit Slab Gate Valves can be used in many applications. Our valves have been installed in numerous projects around the world, in on/off, ESDV (Emergency Shutdown Valve) and HIPPS (High Integrity Pressure Protection System) valve applications.

Designing for increasing maximum allowable pressures for Slab Gate Valves, through continuous research and development to meet our clients' new requirements, is one of our major objectives. The resulting design expertise guarantees the product reliability improvement year by year.



Acting design

The Through Conduit Slab Gate Valve is designed and manufactured with the rising stem to accommodate the floating movement of the gate. During the valve operation, the line fluid fills the Bore cavity. The fluid pressure in the bore cavity generates a vertical force on The stem that pushes the trim from bottom to top. In case of emergency, This force is used to assist the actuator spring to bring the valve gate to the required Failure mode position.

Seat Sealing

Slab gate valve construction includes spring energized floating seats, which provide positive Seating on both sides, regardless of upstream or downstream pressure conditions. The seat seals are spring energized to ensure sealing under low pressure conditions. When the line pressure increases, the seat-to-gate contact pressure increases accordingly to provide positive shutoff. Since both seats are individually energized by differential pressure across the seat itself, the valve cavity can be vented when the upstream and/or downstream side is pressurized. The valve exhibits identical performance, regardless of direction of flow, and/or orientation of differential pressure. Different solutions are available for seat-to-body gaskets, depending on Service fluid type, pressure, and temperature conditions.

Design feature

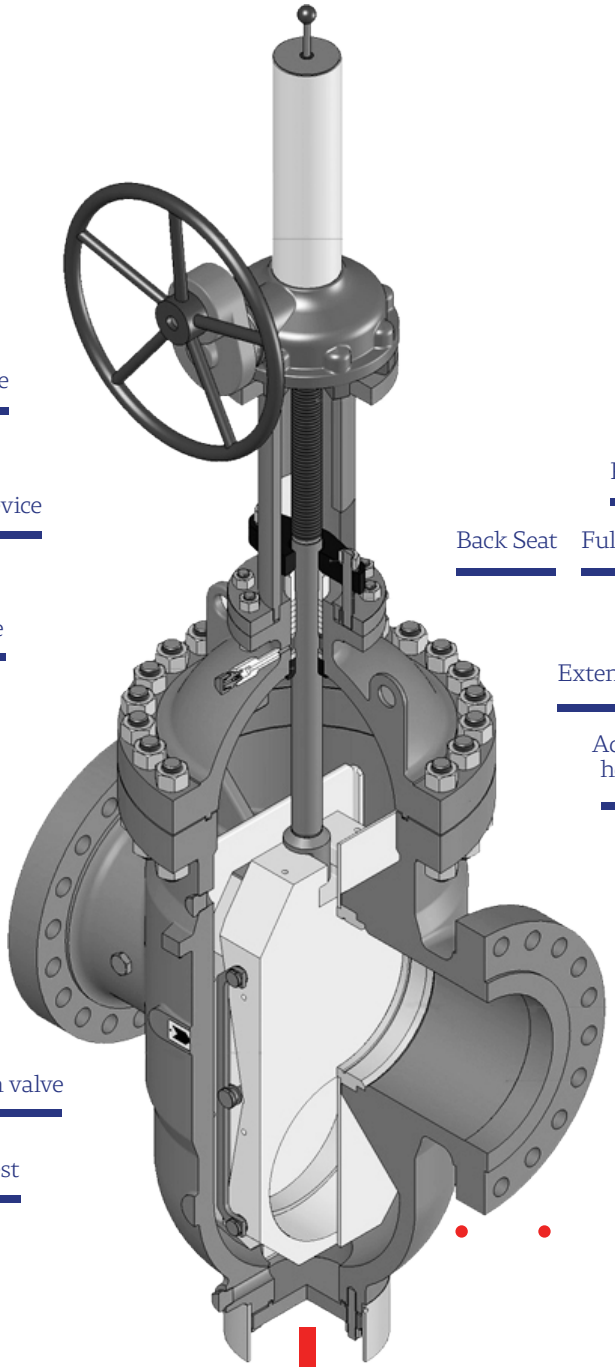
S.M.P Co manufactures a full range of though conduit gate valves for production, processing and transmission applications. Though conduit gate valves provides superior bubble tight sealing capabilities in gas service and unmatched robustness in harsh services With high pressure, high temperature and sand service. GAZAR can supply Through Conduit Gate Valves in different configurations, slab type and double expanding type. GAZAR through Conduit Gate Valves comply with following industry standards:

Main Design Features

- API 6D or API 6A
- Metal Seat
- ASME B16.34
- Fire Safe
- Full Bore
- Bidirectional/Unidirectional
- Self-Relieving
- Anti-Static device
- Anti-blow out stem
- Standard-Reverse

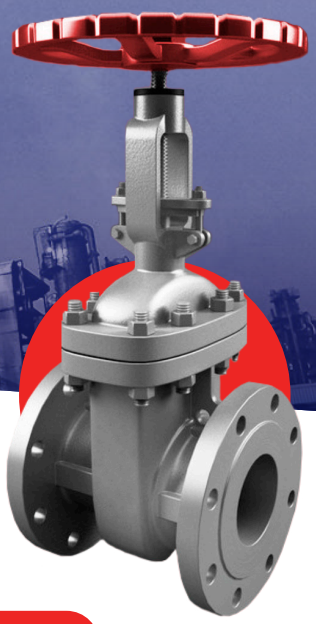
Accessories

- Vent & Drain
- Plugged
- Flanged
- With valve
- Any type of Connection Upon request



Special Features

- NACE Requirement
- Negligible pressure drop
- Pig ability
- Special Bore
- Back Seat
- Full/partial cladding
- Equalizing hole in gate
- Extended Stem
- Double Block & Bleed
- Ad hoc design for horizontal stem
- installation and or vertical pipeline
- Ad hoc engineering to suit customer



GAZAR Models

Model No.	Standard	Gate Type	Valve Type	Size
SMP-C-1	API 6D	Expanding	Outside Screw, Rising Stem	4" and Smaller
SMP-C-2	API 6D	Expanding	Outside Screw, Rising Stem	6" and Smaller
SMP-C-3	API 6D	Slab	Outside Screw, Rising Stem	All
SMP-C-4	API 6D	Slab	Inside Screw, Not-Rising Stem	All
SMP-C-5	ASME B16.34	Parallel Slide	Inside Screw, Not-Rising Stem	All

1 Through Conduit Slab GateValves API 6D

Features

Full bore | Pig gable | Double block and bleed, double isolation | Bubble tight | Bolted bonnet | Rising stem | Stem back-seat | Soft or metal seated

Applicable Standards

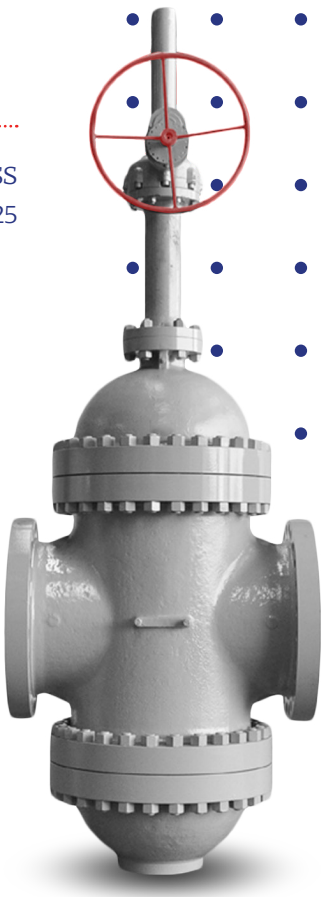
API 6D ISO 14316 | ANSI B16.34 | ANSI B16.10 | NACE MR0175 / ISO 150156

Range

2" to 42" Class 150 | 2" to 42" Class 300 | 2" to 42" Class 600 | 2" to 30" Class 900

Ends

Flanged to ANSI B16.5 - B16.47 - MSS SP-44 | Butt weld ends to ANSI B16.25



Materials

Carbon steel | Low temperature carbon steel | Stainless austenitic and super austenitic | Stainless duplex and super duplex | Nickel super alloys (Montel, Inconel 625, and Hastelloy)

Operators

Manual gear | Electric multi turn | Hydraulic double acting and fail close | Pneumatic double acting and fail close

Options

Overlay Inconel 625 | Reverse gate for fail close service | Inside screw

2 Through Conduit Double Expanding Gate Valves API 6D

Features

Full bore | Pig gable | Double block and bleed, double isolation | Bubble tight | Bolted bonnet | Rising stem | Soft or metal seated | Fire-safe | Fugitive emission

Applicable Standards

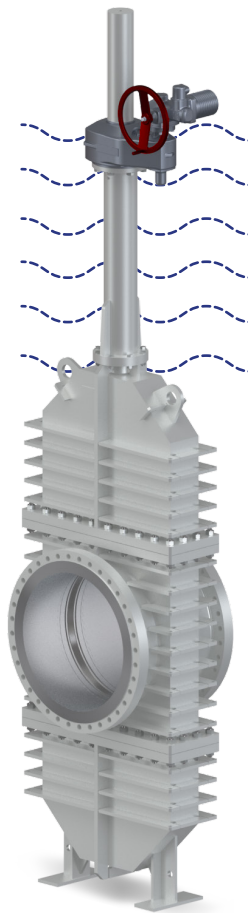
API 6D ISO 14316 | ANSI B16.34 | ANSI B16.10 | API 6FA | NACE MR0175 / ISO 150156

Range

2" to 42" Class 150 | 2" to 42" Class 300 | 2" to 42" Class 600 | 2" to 30" Class 900

Ends

Flanged to ANSI B16.5 - B16.47 - MSS SP-44 | Hub connectors | Butt weld ends to ANSI B16.25



Materials

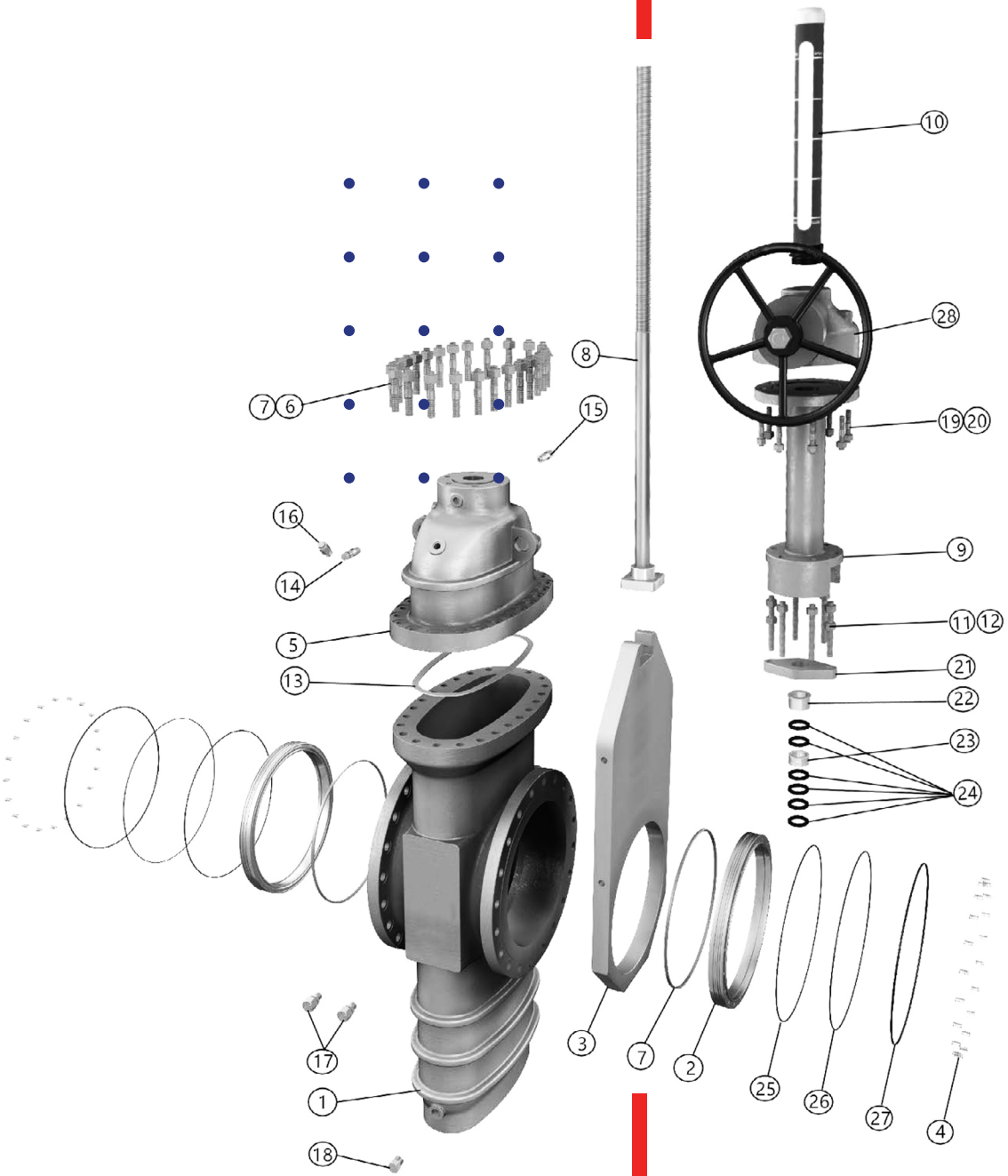
Carbon steel | Low temperature carbon steel | Stainless austenitic and super austenitic | Stainless duplex and super duplex, Nickel super alloys (Monel, Inconel 625, Hastelloy)

Operators

Manual gear | Electric multi turn | Hydraulic double acting and fail close | Pneumatic double acting and fail close

Options

Inside screw | Overlay Inconel 625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Item No.	Part Name	Item No.	Part Name
1	Body	15	Plug
2	Seat	16	Vent Valve
3	Disk	17	Injection Fitting
4	Spring	18	Drain Plug
5	Bonnet	19	Gearbox Stud Bolt
6	Bonnet Bolt	20	Gearbox Stud Nut
7	Bonnet Nut	21	Gland Flange
8	Stem	22	Gland
9	Welding Yoke	23	Lantern Ring
10	Stem Cover	24	Packing
11	Gland Stud Bolt	25	Graphite Wire Rod
12	Gland Stud Nut	26	Seat O-Ring
13	Gasket	27	Seat Gasket O-Ring
14	Packing Fitting	28	Gear Box

GAZAR

Sadra Mahan Parsian

Head Office: Unit 8, No. 1,
First Alley, Anvar Street,
Mirdamad Blv, Tehran, IRAN
Factory: No. 15, 19th Khayam,
Shahnameh Blv, Mashhad,
IRAN

Telefax:
021-22276160
Phone:
051-35422413

www.sadramahan-co.com
info@sadramahan-co.com
sales@sadramahan-co.com