

# STEEL GLOBE VALVE

## FAF2150

2150



### Features

- Designed and manufactured according to ANSI standards.
- Has cast steel body; stem, disc and sealing seats are manufactured from stainless steel.
- According to its design feature; head loss is higher compared to other valve types due to the flow travelling inside the body and flow section is narrower.
- No maintenance needed, can be operated with lower torque ratings.
- Valves can be equipped with a variety of manual gear or electric motor actuators. Generally, all pressure must be relieved from both sides of the valve before the actuator is removed.
- Zero stem leakage eliminates media loss and satisfies environmental regulations.
- Effective for energy savings. Energy loss due to leakage is controlled, helping to prevent global warming and protecting the environment.

### Temperature

- -30 °C, +200 °C

### PRODUCTION STANDARDS

DN50 → DN600  
CLASS 150/300/600

Design	13789
Connection	BS EN 1092-2 / ISO 7005-2
Face to Face	EN 558 Series 1 / DIN 3202 F1
Marking	EN 19
Tests	En 12266-1
Corrosion Protection	Industrial Epoxy

### Product Description

FAF2150 Globe Valve, maintains 100% tight sealing through the graphite gasket on the stainless steel disc moving perpendicular to the flow axis and seating on the machined metal seat inside the body.

### Versions

- Standard version with handwheel
- Standard version with gearbox
- Prepared for electrical actuator
- With electric actuator
- Custom production for specific orders

### Accessories

- Extension spindle, FAF7250
- T-Key, FAF7250T
- Surface box, FAF7250K

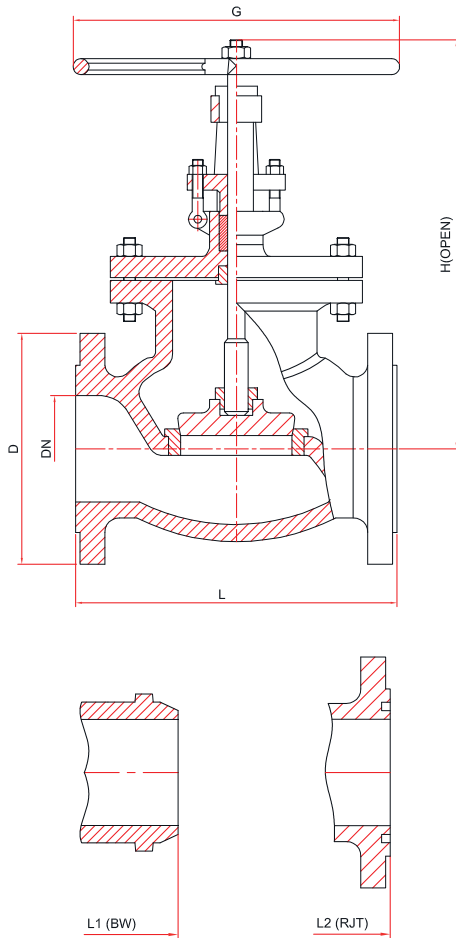
### Scope of Application

- Steam
- Superheated water
- Hot & cold water
- Chemicals
- Lubricants
- Natural gas
- Oil&Gas
- HVAC
- Power & heat engineering
- Industrial technologies
- Fluids without acidity or alkalinity properties

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### MATERIAL SELECTION

Body ASTM A-216 WCB Cast Steel

Disc ASTM A-216 WCB Cast Steel

Stem 1.4021 - AISI 420 Stainless Steel  
1.4301 - AISI 304 Stainless Steel  
1.4401 - AISI 316 Stainless Steel

Sealing Graphite

### VALVE TEST PRESSURE (Bar)

MAX. OPERATING PRESSURE	BODY / SHELL TEST	SEAT TEST
16	24	17,6

100% of the valves are subjected to hydrostatic tests at FAF facilities.

### Note

- For proper use and safety precautions please follow the installation and operating instructions.

CLASS 150								CLASS 300							
NPS	DIMENSION					RATINGS		DIMENSION					RATINGS		
INC	D	L - RF L1 - BW	L2 - RJT	H	G	KV m <sup>3</sup> /h	Weight Kg	D	L - RF L1 - BW	L2 - RJT	H	G	KV m <sup>3</sup> /h	Weight Kg	
2	150	203	216	330	200	40	23	165	267	283	350	200	40	30	
2 1/2	180	216	229	390	250	70	29	190	292	308	425	250	70	45	
3	190	241	254	410	250	100	40	210	318	333	485	300	100	60	
4	230	292	305	475	300	180	59	255	356	371	520	300	180	83	
6	280	356	368	585	350	400	115	320	445	460	655	350	400	162	
8	345	495	508	725	450	750	178	380	533	549	825	500	740	265	
10	405	622	635	825	500	1200	268	445	622	638	920	600	1200	375	
12	485	699	711	940	600	1700	385	520	711	727	1155	700	1700	525	
14	535	787	800	1200	600	2380	540	585	838	854	1250	700	2380	765	
16	595	864	876	1270	650	3190	760	650	864	879	1295	800	3190	1100	
18	635	978	991	1300	650	4080	1050	710	978	994	1330	900	3750	1320	
20	700	978	991	1350	750	5010	1200	775	1016	1035	1390	900	4610	1550	
24	815	1295	1308	1400	750	7230	1400	915	1346	1368	1480	1000	6650	1680	



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### Globe Valve Manual

#### Valve Type

Handwheel operated rising stem straight type globe valve

#### Operation

FAF2150 series flanged end cast steel globe valves are used in water, oilfield, chemical-industrial, power-station for stopping the flow and connecting the pipelines.

#### Working Principle And Configuration Direction;

1. FAF2150 Series globe valves are designed and made according to standard ASME16.34,JB/T7746, tested under standard API598,JB/T9092
2. Rotating the hand wheel clockwise will close the disc and stop the flow of the pipe. As anti-clockwise rotation of the hand wheel will open the disc and allow flow of the fluid.
3. The valve with sealed fitting, as the disc is opened; the stem is on the highest position. The upper sealing of the valve will keep sealed through the packing and the keep the fluid apart which will extend the lifetime of the packing.
4. The sealing fixing adopts the welding Stellite stainless steel which is good abrasive resistance, corrosion resistance, anti-bruise for extending the use.
5. The products have reasonable configuration, good looking design, excellent feature, reliable sealing function.

#### Installation

1. To install any valves, be sure about the security and easy operation area for repair, disassembly and installation.
2. The stem must be vertical installed on the horizontal pipes.
3. Be aware to install the valve considering the flow direction marked on the valve body. In case of marking not available, please install by valve principle. Do not install the valve with wrong direction.
4. Before the installation, inspect the valve. The inside and outside of the valves needs to be clean. The valve should be in the good condition.
5. When installing the flanged end valves, be sure about cleanliness of the valve and pipe flange in order to secure tight sealing. Do not use wrong equipments, cross link or do not leave space between valve and pipe flanges. Tighten the bolts and screw tight and balanced. After tightening the bolts, be sure all items are well fixed.
6. When installing the threaded end valves, place the screwed pipe ends to the both side of the valves. According to the application, sealing material can be used as PTFE or sealing glue. Keep the inside of the valve clean with any sealing material.
7. Be aware of the valve characteristics and check the corrosion and temperature, pressure design of the valve.

### Simplified Valve Configuration including main parts and material list

#### A) Flanged-end Straight Type Globe Valve

NO	ITEM	MATERIALS
1	Body	WCB
2	Disc	25
3	Stem	1Cr13
4	Flat Cover	25
5	Gasket	Graphite+stainless steel
6	Bonnet	WCB
7	Stud	35CrMoA
8	Nut	35
9	Packing	Graphite
10	Gland	WCB
11	Yoke nut	Copper alloy
12	Hand wheel	KTH330

#### B) Inside Threaded Globe Valve

NO	ITEM	MATERIALS
1	Body	A105
2	Disc	A105
3	Stem	2Cr13
4	Gasket	Graphite+stainless steel
5	Bonnet	A105
6	Packing	Graphite
7	Stuffing cover	2Cr13
8	Yoke nut	QA19-4