



*High Efficiency & Better Performance*



# **Instrumentation Industrial Valves & Solutions**

## About Us

Safecon Valves Pvt. Ltd. are the pioneers for a wide and comprehensive range for Various types of Industrial and Instrumentation Valves who have been serving to clients in more than 35 countries worldwide. We are a long established company producing wide range of manual, automatic, pneumatic, electrical actuated, industrial valves & instrumentation valves, which are precision designed to provide best solutions to industries like Oil and Gas, Refineries, Chemicals, Thermal Power Stations, Textiles, Sugar Breweries & distilleries, Sewage & Water Treatment, Ship yards & Marine Management and others.

We also are dedicated to making our products and manufacturing process environmentally friendly. We are an ISO 9001:2008 Certified Company who believes in having advanced engineering capabilities and innovation driven focus to continuously expand our offering of Best Quality Industrial and Instrumentation Valves.

The Company is established to provide best quality Valves at most competitive price. All Valves are being exported in accordance with internationally accepted standards like API / ASA / ASTM / ANSI / MSS/BS/DIN/JIS/IS specifications. The Product Range includes size range from 1/2" through 16" pressure rating from 150 # through 2500# in almost all Material of Construction.

SAFECON having own Design, Research and Development Division for overall quality goals to achieve and maintain the integrity and continual improvements in design of the valves. Design and Development process are employed at SAFECON to transform customer requirements into Specifications, Product, Process or System by highly expertise technical team and give the best solution in order to meet the physical and technical needs of the customer at economical cost.

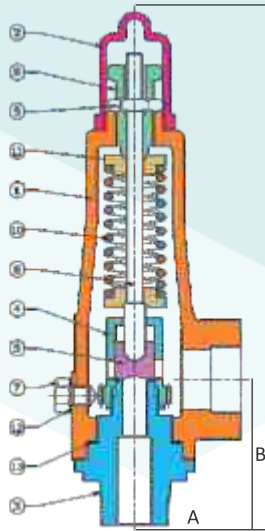




# ***Instrumentation Valves & Solutions***



"SAFECON - Series SC-1000 & SC-1100" SAFETY & THERMAL RELIEF VALVES are designed and manufactured in compliance with API / ASME Section VIII-Division I for small and medium capacity application for use on vapor, gas and liquid for over pressure protection.

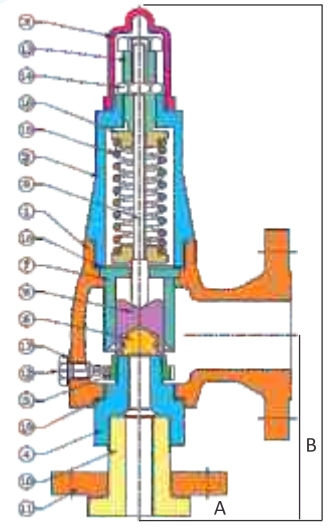


**SC-1100** Dimension (mm)

Valve Size(mm) INLETXOUTLET	A±3.0	B±3.0	C±3.0	(Approx) Weight (kg)
15 X 25	55	92	267	4
20 X 25	55	92	267	4
25 X 25	55	92	267	4
40 X 50	67	92	322	7
50 X 50	67	92	322	7

**SC-1000** Dimension (mm)

Valve Size(mm) INLETXOUTLET	A±3.0	B±3.0	C±3.0	(Approx) Weight (kg)
15 X 25	105	116	300	7
20 X 25	105	116	300	7
25 X 25	105	116	300	7
25 x 40	105	116	300	8.5
40 X 50	110	130	366	15
50 X 50	110	130	366	15



## Material Specification

### SC-1100

Sr No.	Part Name	Material
1	Body	ASTM A 216 GR. WCB ASTM A351 GR.CF8/CF8M
2	Cap	Alloy Steel
3	Nozzle	ASTM A351 GR.CF8/CF8M/SS 410
4	Nozzle Ring	ASTM A351 GR.CF8/CF8M
5	Disc	SS 304/SS 316/SS 410
6	Stem	SS 304/SS 316/SS 410
7	Lock Screw	SS 304/SS 316/SS 410
8	Adjusting Screw	SS 304/SS 316/SS 410
9	Adjusting Screw Nut	SS 304/SS 316/SS 410
10	Setting Spring	SP. Steel/CS/SS/Alloy Steel
11	Spring Washer	M.S./SS 304/SS 316/SS 410
12	Gasket (Lock Screw)	CAF/Graphite/PTFE
13	Gasket (Nozzle)	CAF/Graphite/PTFE

## Material Specification

### SC-1000

Sr No.	Part Name	Material
1	Body	ASTM A 216 GR. WCB ASTM A351 GR.CF8/CF8M
2	Bonnet	ASTM A351 GR.CF8/CF8M
3	Cap	Alloy Steel
4	Nozzle	ASTM A351 GR.CF8/CF8M/SS 410
5	Nozzle Ring	ASTM A351 GR.CF8/CF8M
6	Disc	SS 304/SS 316/SS 410
7	Disc Guide	SS 304/SS 316/SS 410
8	Disc Holder	SS 304/SS 316/SS 410
9	Stem	SS 304/SS 316/SS 410
10	Collar	ASTM A351 GR.CF8/CF8M/SS 410
11	Inlet Flange	A105/SS 304/SS 410
12	Lock Screw	SS 304/SS 316/SS 410
13	Adjusting Screw	SS 304/SS 316/SS 410
14	Adjusting Screw Nut	SS 304/SS 316/SS 410
15	Setting Spring	SP. Steel/CS/SS/Alloy Steel
16	Spring Washer	M.S./SS 304/SS 316/SS 410
17	Gasket (Lock Screw)	CAF/Graphite/PTFE
18	Gasket (Guide)	CAF/Graphite/PTFE
19	Gasket (Nozzle)	CAF/Graphite/PTFE

## DESIGN FEATURES & BENEFITS :-

- Thermal expansion to API 520
- Rugged Construction (Investment Casting)
- Replacable Nozzle & Easy maintenance procedure
- Soft seating arrangement for tight shut-off
- Stellite trims for High Pressure and Temperature
- Safe and Reliable performance
- The material selection of guiding components with self aligning disc ensure no galling of guiding surface.

### (1) Trims

This valves have been design with metal trims give right performance at higher pressure and temperature. Trims are also provided with soft sealing for bubble tight shut off.

### (2) Guiding Area

The material Selection of guiding components with Self aligning disc ensure no galling of guiding surface.

### (3) High performance Spring

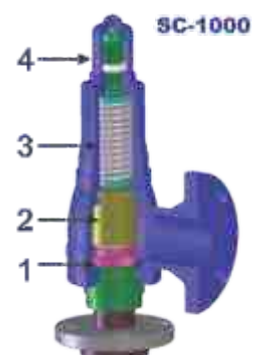
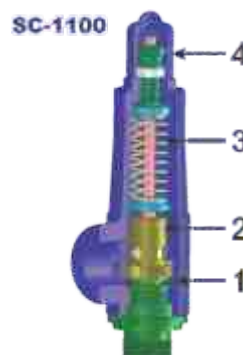
The perfect design and material ensure the repeatability of the Set Point.

### (4) Accessories

Optional Accessories are available to suit the system requirement comply with International codes.

## TECHNICAL DATA:

- Conventional · Metal or soft seated
- Pressure limits : 350 barg
- Sizes : 1/2" x 1" to 2" x 2"
- Pressure Rating Up to 2500 Class



"SAFECON - Series SC-5000 SAFETY/PRESSURE RELIEF VALVES are designed and manufactured in compliance with API 520 / ASME Section VIII-Division I for High performance application for use on vapor, gas and liquid for over pressure protection. This conventional Safety / Pressure Relief Valves are versatile, safe & interchangeable.

Valve Size(mm) INLETXOUTLET	Dimension (mm)				(Approx) Weight (kg)
	A±3.0	B±3.0	C±3.0		
25 x 50	105	115	456		18
40 x 50	124	120	490		23
40 x 80	126	124	560		28
50 x 80	133	124	575		32
80 x 100	155	165	674		62
100 x 150	181	229	930		130
150 x 200	240	241	1180		210
150 x 250	240	266	1180		250
200 x 250	276	280	1370		325
250 x 350	385	395	1600		950

## Material Specification

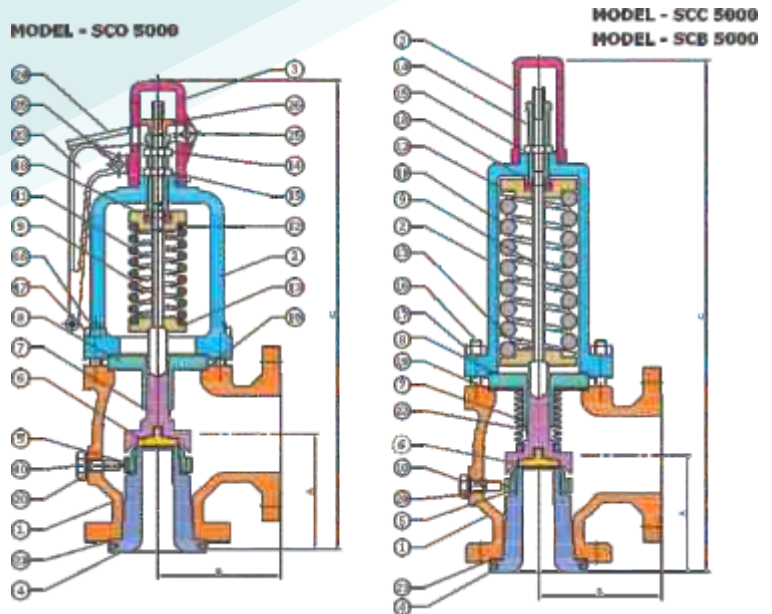
Sr No.	Part Name	Material
1	Body	ASTM A 216 GR. WCB
2	Bonnet	ASTM A351 GR. CF8/CF8M
3	Cap	ASTM A 216 GR. WCB/SG Iron
4	Nozzle	ASTM A 351 GR. CF8/CF8M/CA 15
5	Nozzle Ring	ASTM A351 GR. CF8/CF8M
6	Disc	SS 304/SS 316 / SS 410
7	Disc Holder	ASTM A351 GR. CF8/CF8M
8	Guide	ASTM A351 GR. CF8/CF8M
9	Stem	SS 304/SS 316 / SS 410
10	Lock Screw	SS 304/SS 316 / SS 410
11	Setting Spring	SS 304/SS 316 / SS 410
12	Upper Sp. Washer	M.S./SS 304/SS 410
13	Lower Sp. Washer	M.S./SS 304/SS 410
14	Adjusting Screw	SS 304/SS 316 / SS 410
15	Adjusting Screw Nut	SS 304/SS 316 / SS 410
16	Studs	H.T./SS 304/SS 316
17	Nuts	H.T./SS 304/SS 316
18	Thrust Bearing	Standard
19	Gasket (Body)	CAF/Graphite/PTFE
20	Gasket (Lock Screw)	CAF/Graphite/PTFE
21	Gasket (Nozzle)	CAF/Graphite/PTFE
22	Bellow (SCB 5000)	SS 316/SS 316/Inconel
23	Lever	ASTM A216 GR. WCB/SG Iron
24	Fork	ASTM A2016 GR. WCB/SG Iron
25	Lever & Fork Pin	M.S./SS 304/SS 316
26	Stem Nut	M.S./SS 304/SS 316

## TECHNICAL DATA:

- Conventional
- Metal seat
- Sizes : from 1/2" to 10"
- Material : Carbon, alloy, stainless steel and Super alloy Steel.
- Pressure Rating Up to 2500 Class

## OPTIONAL FEATURES :

- Soft seating arrangement for tight shut-off
- Open bonnet till L orifice
- Packed Lever
- Test Gag
- Bellows arrangement to prevent back pressure effect

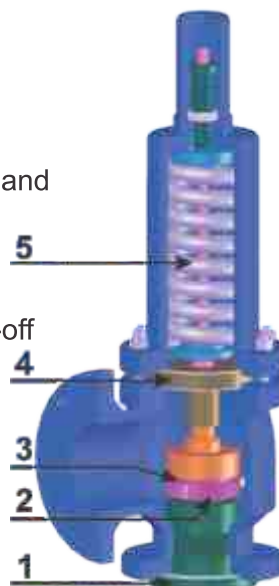


## DESIGN FEATURES & BENEFITS :-

- Rugged Construction
- Replacable Nozzle & Easy maintenance procedure
- Soft seating arrangement for tight shut-off
- Stellited trims for High Pressure and Temperature
- High Efficiency And Better Performance
- The material selection of guiding components with self aligning disc ensure no galling of guiding surface.
- High Efficiency Spring

## APPLICABLE CODE/ STANDARDS

- ASME BPVC Section VIII Division I
- API 520/ API 526 / API 527
- ASME B 16.34
- ASME B 16.5



- ( 1 ) **Nozzle Design** :- The Nozzle is Pressure parts & in continuously contact with the flow media in both the condition, it so design and attached with the body to avoid transmission of pipe stresses to the contact surface.
- ( 2 ) **Adjustable Blow Down** :- The blow down or reset pressure can be simply adjusted to meet the special or specific performance requirements by means of a single adjusting ring.
- ( 3 ) **Trims** :- Specific trims design & precise machined components are ensures the performance of the valve under critical applications without trouble free long life.
- ( 4 ) **Guiding Area** :- The material selection of guiding components, together with a self-aligning disc and spindle pivot point, ensures correct alignment and no gelling of guiding surface
- ( 5 ) **High Performance Spring** :- Design accuracy and selection of spring ensure the repeat-ability of the set pressure.

**Bellows**:- Ensure correct valve performance under difficult back pressure conditions.

**Seat Leakage integrity** :- Selection of nozzle and disc materials with precise lapping gives positive shutoff comply with relevant standard and prevents loss of flow media.

## Steam Service : SC-4000 Model

Self Acting, Pilot & Piston operated Pressure Reducing Valves are most popular for pressure reduction of STEAM in all types of Industries. The Valve operates on Spring Balance principle.

The Downstream pressure is sensed below stainless steel diaphragm which is balanced by the spring tension. Increasing spring tension, increases outlet pressure and vice versa. The Valve has additional external Sense Line provision also, which improves performance and accuracy of outlet pressure.



Size:	15NB - 200NB
Rating :	BS10 Table H, Class 150 & 300
End Connection :	Flanged, Screwed
Material :	Carbon Steel ,Alloy Steel & Stainless Steel

## Pilot Operated Pressure Reducing Valve

### For Gas & Air: SGR-6600-P

Series SGR-6600-P Regulators are Pilot operated for control of gas & air pressure. In single stage, pressure reduction can be achieved very precisely up to 1/10th of the inlet pressure. Pilot operated Regulator gives very precise downstream pressure and very low fluctuation. They are extensively used as active and monitor control in series for Natural Gas Pressure Reducing System. Valve has very high flow Capacity and very precise regulation with the help of Pilot.



Size:	50NB - 200NB
Rating :	class 150 & 300
Material :	Carbon Steel & Stainless Steel

## Gas Pressure Regulators: SGR-6600

Type SGR-6600 Regulators are Self Actuated - Spring & Diaphragm operated for precise control of Gas pressure for maximum combustion efficiency in commercial gas installation. The Regulators maintain the outlet pressure steadily irrespective of varying inlet pressure in the pipeline. These high capacity regulators are used for Air, Nitrogen, Natural Gas, Hydrogen and many other Industrial Gases.



Size:	15NB - 150NB
Rating :	Class 150 & 300 Class
Maximum inlet pressure :	20 kg/cm <sup>2</sup>
Minimum outlet pressure :	50 mm WC
Material :	Carbon Steel & Stainless Steel

## Liquid Pressure Regulating Valve (SC-5110)

- Automatically reduces a higher inlet pressure to a constant lower outlet pressure.
- The valve consists of a main valve and Pilot (PR-510) pressure reducing control pilot. Slight changes in downstream pressure acts on topside of control diaphragm causing main Valve to counteract pressure changes and hold a constant outlet pressure.
- The regulator will reduce the upstream pressure to a constant downstream pressure regardless of the change in flow rates/or inlet pressure. The pilot is a Normally Open valve that senses the downstream pressure.
- Spring Range : Standard : 20-175 psig. Optional : 5-35 psig.



## Steam Service : SC-4001 Model (with IBR approval and certification)

Complete assembled unit of pressure reducing station, sized and selected based on Customer's requirement of Flow Rate, Pressure, Temperature, etc. PRV is of Self Regulating type Model SC-4000, generally for low-pressure duty. Recommended PRV for high-pressure duty and higher turn down ratio (up to 40:1) is Robotrol operated Control Valve - Model: SC 142.



<b>Size:</b>	25NB X 50NB - 250NB X 350NB
<b>Pressure Range:</b>	0-150 psig - 450 psig.
<b>Pressure Rating:</b>	Class 150, 300, 600, BS 10 Table H, etc.
<b>Material:</b>	Cast Steel and Alloy Steel

## Pressure Reducing Station for Gas SC-6601 Model

Complete assembled unit of pressure reducing station, sized and selected for controlling pressure in Natural Gas, Nitrogen, Hydrogen, LPG, Air, etc. Each PRS is sized and manufactured based on customers process parameters such as Flow Rate, Inlet Pressure, Outlet Pressure, other Safety requirements such as Safety Shut-off Valve with Over Pressure and Under Pressure setting, Diaphragm Operated Relief Valve, Flame arrester etc. can be incorporated as required. Active & Monitor Regulators with by-pass line is also possible. The unit gives excellent Downstream Control of Pressure with full safety.

<b>Sizes :</b>	25NB - 150NB
<b>Inlet Pressure :</b>	0-30kg/cm <sup>2</sup>
<b>Minimum Outlet Pressure :</b>	50mm WC
<b>Material :</b>	Cast Steel, Alloy Steel & Stainless Steel



"SAFECON - Globe type Control valves are available for any control application. Built to take the punishment imparted by many processes, including extreme pressure drops, the valve is backed by the most respected name in the valve industry.

Size:	25NB - 400NB
Rating :	150, 300, 600, 900 & 1500 Class
End Connection :	Flanged, Buttweld & Socketweld
Material :	Cast Steel, Stainless Steel, Alloy Steel, Hastalloy, etc.

## Standard Models

### 291 (Single Seated, Globe, Unbalanced Design) Top guided

Most widely used valve, for all major Fluids, Working conditions & Applications. Very easy to maintain.

### 282 (Single Seated, Globe, Balanced Design) Cage Guided

Excellent valve for Liquid, Air & Clean Gases. Has very high stability and better response.

### 142 (Single Seated, Globe) Top & Bottom guided

Suitable for High working pressure & High pressure Drop.

### 112 (Double Seated Globe) Top & Bottom guided

Used for High Flow Capacity (Cv Value) & High Pressure Differential such as Boiler feed Water, etc.

### 153 (3 Way Mixing & Diverting) Skirt & Top Guided

Used for Thermic Fluid, Steam, Cooling Water, etc. where excess amount of fluid has to be by-passed.

## Accessories (Optional)

- Positioner (Pneumatic, Electro Pneumatic & Smart)
- Pressure Transmitter
- I/P Converter
- Solenoid Valve
- Limit Switches
- Air Filter Regulator
- Manual Hand Wheel

- All models available with Direct and Reverse Acting Actuators



## Level Control Valve SC-1110

### Function

The Model SC-1110 Modulating float control valve to maintain constant liquid level in storage tanks and reservoirs by compensating for variations in supply or demand, keeping the tank full.

### Operation

The Ball type float operated Pilot Control is installed at the high liquid level in the tank/reservoir and is connected via tubing or pipe to the main valve. As the liquid level changes, the float control proportionally opens or closes the main valve, keeping the liquid level nearly constant.

**Size : 25NB - 400NB**

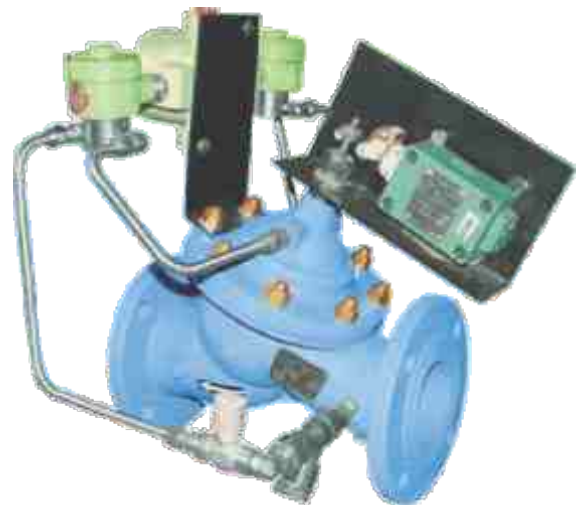


## Digital Control Valve

### (Set-Stop) Valve SC-3110-66 (Globe)

This is an electrically actuated, hydraulically operated multi-function control valve. Used extensively in loading terminal automation systems in refineries and storage tanks of petroleum products for effective and accurate filling of tankers and railway wagons. It has two solenoid valves, receiving signal from batch controllers to position the valve for low flow/medium flow / high flow conditions as programmed.

**Size : 25NB - 400NB**



## Deluge Valve SC-7001

Deluge Valves Models 7001 are manufactured with Dry Trim (Pneumatic Actuated) and Wet Trim (Hydraulically Actuated). Both options are available with Electrical Trim Solenoid Actuated (Model 1110). All trims are factory piped on the Valve itself. It also has Manual Station as Test Trim, Manual Override and Drain Line. The valve opens on demand to provide water flow to the fire protection sprinkler system. Pilot system can be hydraulically, pneumatically or manually operated. Opening of the Valve is by electrical signal to solenoid valve/loss of control pressure. The Pilot and Diaphragm design has many advantages as...

- Quick response/fast opening
- Low friction
- High flow capacity
- Minimum maintenance
- Imported Diaphragm & Patented Quad Seal Ring for zero leakage.

**Size : 25NB - 400NB**



## Slow Acting Check Valve

### 8110

- Non return function, closes automatically in case of reversal flow.
- The valve allows flow when inlet pressure is higher than outlet pressure.
- In case of reverse flow, the valve closes within appropriate time to ensure it does not generate any surge / water hammer.
- Ideal for Air craft fuelling application.
- Valve opens and closes at controlled (adjustable) speed to ensure smooth flow.

Size : 25NB - 400NB



## Solenoid Control Valve

### Function

Operated by two way-three way solenoid pilot valve, 3110 a Solenoid Control Valve is an on-off control valve that either open or closed upon receiving an electrical signals to the solenoid pilot control, provides two position (on-off) Operation.

### Operation

This valve is consist of a "ACV" main valve and a two way solenoid valve. The main valve opens fully or closes drip tight depending upon the actuation position of the solenoid, energized to open/energized to close. The valve may be remotely operated by times, relays, probes or any triggered device to the solenoid.

Size : 25NB - 400NB



## Pressure Relief Valve

### 6110(Globe)

- Auto Re-circulation on a Refueller to control the pumping pressure of Air Crafts.
- Solenoid Override or Pneumatic Override to safeguard the system. This can be operated remotely to re-circulate full flow.
- When installed in Main line, it prevents upstream pressure dropping below preset value.
- When installed on a By-Pass line, it controls main line pressure by relieving excess pressure in By-Pass/sump.
- Ideal for pump by pass to protect the downstream equipments.
- Relief pilot (PR-610) is normally closed due to spring tension.
- With increase in upstream pressure above set value, Pilot (PR-610) opens which makes Main Valve to open fully.
- Spring Range: Standard: 20-200 psig. Optional: 5-30 psig.

Size : 25NB - 400NB





# ***Industrial Valves & Solutions***



We synthesize a wide range of Globe Valves which includes seal globe valves, gate globe valves and cast iron globe valves. These globe valves are made from the finest quality of metal and raw materials. We hold a state of the art infrastructure, where we have all the latest machineries and tools. All are team is specially trained. We have set our own quality control team. The designs are unique and efficient. It's been more than a decade that we are consistently serving our clients. With all this we are the paramount cast iron globe valves manufacturer and supplier from India.

Safecon Globe Valves are O.S. & Y Type i.e. Outside screw & yoke, Bolted bonnet, & Rising stem. Globe valves are used where throttling and both throttling and shut-off is required. They can also be used for on-off service, but because of high pressure drop, this is generally confined to applications where the valve is normally closed and drop is not important when the valve is open. Normally globe valves are installed with flow under the disc, but under certain conditions flow over the disc may have the advantages.

Safecon can also supply Angle Valves, "Y" Type Globe Valves and Globe Valves as S.D.NR (screw-down non-return) which in effect converts it into two valves – stop valve when closed or a check valve when open.

## Design Features :

- Streamlined shaped body for smooth flow of the working fluid for minimum pressure Drop.
- Back seating arrangement permits the replacement of packings while the valve is in full open position

## Standards Applicable :

- Design Standard : BS 1873
- Testing Standard : API 598 / BS EN 12266 -1
- Face to Face : ASME B 16.10
- End Connection :
  - Flanged End : ASME B 16.5
  - Butt Weld End : ASME B 16.25
  - Pressure Temperature : ASME B 16.34

## Valve Operation :

### Operator : Hand wheel

#### • Size Range :

- 2" - 10" – Class 150, 300
- 2" - 6" – Class 600
- 2" - 4" – Class 900, 1500

### Operator : Gear Operator

#### • Size Range :

- 12" & above – Class 150, 300
- 8" & above – Class 600
- 6" & above – Class 900 & 1500

## Material Structure :

- End Connection : Flanged end raised face, Butt weld end, RTJ, etc.
- Operation : Hand wheel, Gear operator, Electrical Actuator, Pneumatic, Hydraulic
- Shell : WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, CD4MCu, Hastalloy, Inconel, Duplex Stainless Steel.
- Trim : 13% Cr. Steel, 304, 304L, 316, 316L, 321, 347, Monel, Duplex Stainless steel.



We manufacture a wide range of Gate Valves which include knife gate valves, cast iron gate valves and flanged gate valves. These valves are renowned all over for their premium quality. With the quality assurance we are the largest flanged gate valves supplier in India. We also manufacture these gate valves according to customer specifications. The quality of these valves is intact. They are properly inspected and verified before sending them to client. Uses of acme quality metal and flawless designs which enhance the performance of these valves have made us stand much ahead from the other manufacturers in India.

Gate Valves are Outside Screw & Yoke, Bolted bonnet & with Rising stem. The "STRAIGHT THROUGH BORE" design assures minimum turbulence, erosion and resistance to flow caused by pockets & recesses. Gate Valves are mainly used where minimum pressure drop is a requirement.

However, they can not be used for THROTTLING SERVICE because half open Gate Valves can damage the Seat Rings. Gate Valves are always used either in full open or full closed position.

#### Design Features :

- Designed for exceptionally low pressure drop
- Back seating arrangement permits the replacement of packing with valve under fully open condition.
- Two piece design of gland flange provides centralizing effect to the gland sleeve, thus producing a uniform clamping pressure on the packings.

#### Standards Applicable :

- Design Standard : API 600
- Testing Standard : API 598
- Face to Face : ASME B 16.10
- End Connection :
  - Flanged End : ASME B 16.5
  - Butt Weld End : ASME B 16.25
  - Pressure Temperature : ASME B 16.34

#### Valve Operation :

##### Operator : Hand wheel

##### • Size Range :

- 2" - 10" – Class 150, 300, 600
- 2" - 4" – Class 900 & 1500

##### Operator : Gear Operator

##### • Size Range :

- 12" & above – Class 150, 300
- 6" & above – Class 900 & 1500

#### Material Structure :

- End Connection : Flanged end raised face, Butt weld end, RTJ, etc.
- Operation : Hand wheel, Gear operator, Electrical Actuator, Pneumatic, Hydraulic
- Shell : WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, CD4MCu, Hastalloy, Inconel, Duplex Stainless Steel
- Trim : 13% Cr. Steel, 304, 304L, 316, 316L, 321, 347, Monel, Duplex Stainless Steel



We fabricate a wide range of Check Valves which includes swing check valves, ball check valves and many more valves. These valves manufactured by us are made from the best of the metals. The designs of these valves are completely unique in comparison to other available in the market which directly increases its efficiency. These valves even work properly under tough and unyielding condition. These things make our products stand a way ahead of others available. We have a special quality analysis department which checks the quality. This has made us the most prominent wafer check valves manufacturer and suppliers in India.

Swing Check Valves are having Bolted cover, Swing type disc. These valves are used to prevent flow reversal in piping systems. They are suitable for service in horizontal (flow up through valve only) piping runs. Swing Check Valves have low pressure drop and are best suited for moderate velocity applications. Correct sizing of swing check valves is important. Either too low a line velocity or too high a velocity can damage valve internals and shorten valve life.

Swing Check Valves are suitable for all service media. Valves can also be supplied with counter weights and dash pot arrangement depending upon the condition and request.

## Standards Applicable :

- **Design Standard** : BS 1868/API-6D
- **Testing Standard** : API 598/BS EN 12266 -1
- **Face to Face** : ASME B 16.10
- **End Connection** :
  - **Flanged End** : ASME B 16.5
  - **Butt Weld End** : ASME B 16.25
  - **Pressure Temperature** : ASME B 16.34

## Material Structure :

- **End Connection** : Flanged end raised face, Butt weld end, RTJ, etc.
- **Shell** : WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, CD4MCu, Hastalloy, Inconel, Duplex Stainless Steel
- **Trim** : 13% Cr. Steel, 304, 304L, 316, 316L, 321, 347, Monel, Duplex Stainless Steel



# Ball Valves

## Application Features / Benefit

Isolation  
Full Bore, Regular Bore  
Blow Out Proof Stem  
Low Torque

## Ansi Class / Rating Design Standard Testing Standard Size Materials

Floating Ball  
Mounting Pad on request  
150#, 300#  
BS EN ISO 17292  
API 598,  
15 mm to 100 mm  
Body : A105, WCB, CF8, CF8M,  
Hast Alloy, Super Duplex, Alloy 20 ,  
LCB etc Seat : PTFE , reinforced PTFE, Nylon, etc  
Screwed End, Socket Weld End  
Manual, Pneumatic, Electric

## Ends Operation



## Ball Valve



### Application Features / Benefit

Ansi Class / Rating  
Design Standard  
Testing Standard  
Size  
Materials

Ends  
Operation

### Isolation

Full Bore, Regular Bore  
Blow Out Proof Stem

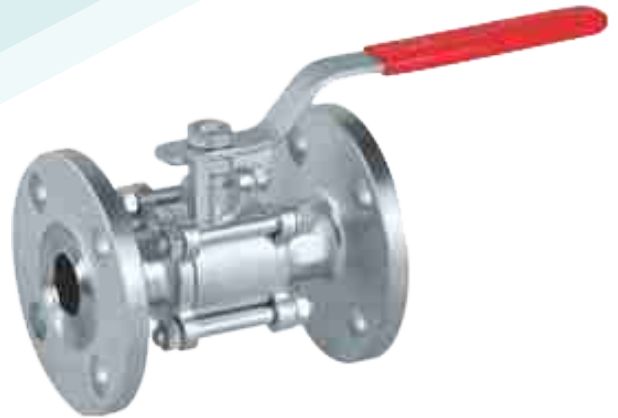
Low Torque  
Floating Ball

150#, 300#  
BS EN ISO 17292 , API 6D

API 598,  
15 mm to 100 mm

Body : A105, WCB, CF8, CF8M, Hast Alloy,  
Super Duplex, Alloy 20 , LCB etc  
Seat : PTFE , reinforced PTFE, Nylon, etc

Flanged End, Butt Weld End  
Manual, Pneumatic, Electric



### Accessories (Optional)

- Manual Gear Operator
- Pneumatic Gear Actuator
- Pneumatic Cylinder Actuator
- Electrical Actuator
- Pneumatic Valve Positioner
- I/P Converter
- Electro/Pneumatic Positioner
- Solenoid Valve

## Wafer End Butterfly Valves

### Application Throttling Features / Benefit

Ansi Class / Rating  
Design Standard  
Testing Standard  
Size  
Materials

Ends  
Operation

### Throttling

Single & Double Eccentric Design  
Full Lug & Semi Lug Type Design  
Top Mounting Pad as per ISO 5211  
Unique Stem retention design to provide  
blow out proof stem & easy assembly &  
disassembly of valves

Heavy Duty square grooved seat design with  
moulded O ring seals to act as flange gasket  
Self energizing seating design

Through flow disc design for large size Butterfly Valves  
Different Lining and Metallurgy to suit a wide variety  
of applications including sea water & water  
desalination plants

PN 10, PN 16, PN 20  
BS-EN 14432

API 598

50 mm to 500 mm

Body : Cast Iron, WCB, CF8, CF8M, Hast Alloy,  
Super Duplex, Alloy 20 , LCB etc  
Disc : Ductile Iron, WCB, CF8, CF8M, Hast Alloy,  
Super Duplex, Alloy 20 , LCB etc

Seals : EPDM, Nitrile, Viton, Metal Seated etc

Wafer End

Manual, Pneumatic, Electric







Testing  
Facility

**SAFECON STRICTLY FOLLOWS ALL NATIONAL & INTERNATIONAL STANDARDS AND CODES WHICH ARE APPLICABLE TO MANUFACTURE OF INSTRUMENTATION VALVES. THERE ARE...**

**API 520 PART-I & IBR : SIZING AND SELECTION OF SAFETY RELIEF VALVE**

**API 526 : DESIGN AND DIMENSION OF SAFETY RELIEF VALVE**

**API 527 & 528 : TESTING OF SAFETY RELIEF VALVE**

**ANSI B16.34 : PRESSURE & TEMPERATURE RATING.**

**ANSI B16.5/BS/DN : FLANGE RATING**

**ANSI B16.10 : FACE TO FACE OF CONTROL VALVE**

**ANSI B16.104 : LEAKAGE CLASS OF CONTROL VALVE**

**ISA S75.01 : CONTROL VALVE SIZING**

**ISA S75.02 : FLOW CAPACITY TEST OF CONTROL VALVE**

**ASME/FCI 70.2 : LEAK TEST OF CONTROL VALVE.**

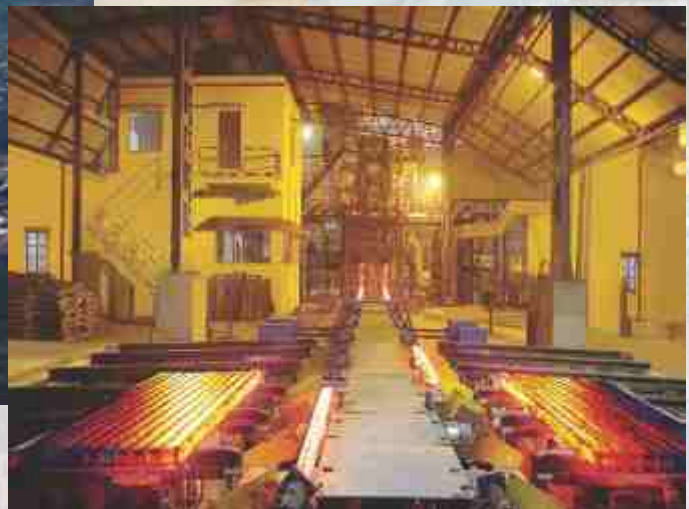
**ASME SECTION-VIII, PART-I OF BOILER & PRESSURE VESSEL CODE :  
SAFETY RELIEF VALVE DESIGN.**

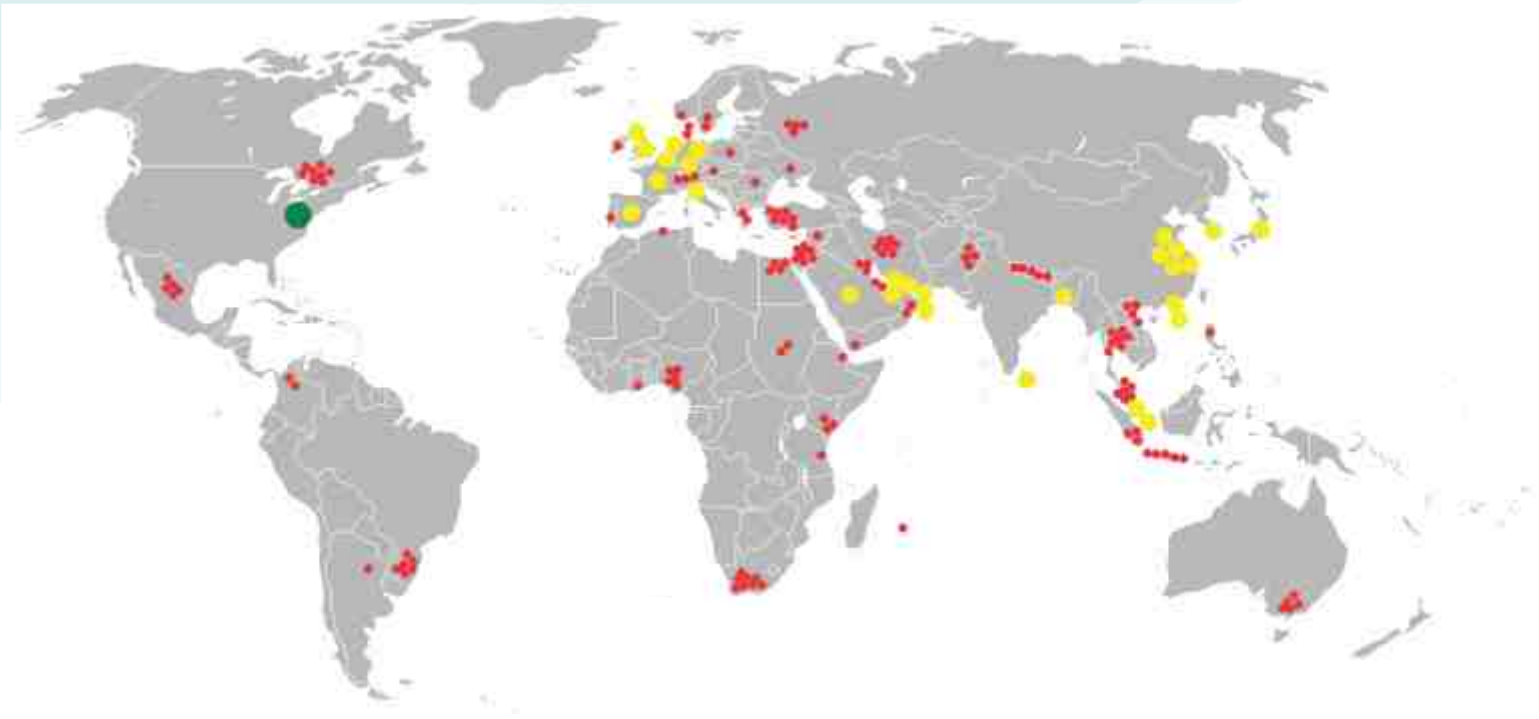
**ASME SECTION - I : POWER BOILER**



## SAFECON SERVES ITS PRODUCTS TO THE MARKET SEGMENTS LIKE...

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- Offshore Drilling
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**Canada, USA, Brazil, France, Spain, Nigeria, Italy, Belgium, Turkey, Egypt, UAE, Srilanka, Bangladesh, Thailand, Indonesia, Australia etc.**





# **SAFECON**

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Website : [www.safeconvalves.com](http://www.safeconvalves.com)