Cast Steel Valve

CAST STEEL GATE VALVE
ANSI #150, #300, #600, #900, #1500
(Handwheel Operated)

Design Features

- Design in accordance with API - 600
- Outside Screw & Yoke (OS & Y)
- Solid wedge available Upon Request
- Flexible Wedge as standard
- From 2" to 24" Handwheel operated as Standard.
- Flange dimensions as per ASME B16.5
- End to end dimension as per ASME B16.10
- WE dimensions as per ASME B16.25

Catalog Figure No.	ID Plant Figure No.	Type of Ends
5202RF	5202F	Flanged Raised Face
5202RTJ	5202RJ	Flanged Ring Type Joint
5202WE	5202WE	Buttweld

Dual Plat Wafer Check Valve

DUAL PLATE WAFER CHECK VALVE
CLASS 150,CLASS 300,CLASS 600,
CLASS 900.CLASS 1500,CLASS 2500

Design Features

- Design in accordance with API 594
- End to end dimension in accordance to API 594
- Flange ends in accordance to ASME B16.5, ASME B16.47
- Inspection and Test according to API 598
- NACE MR-0175 Service
- Lifting Lug for 8" and up
- Single Spring for 2" to 6"
- Double Spring for 8" and up

Size	Pressure by class according to ASME/ANSI B16.34	Ends
2" a 60"	150, 300, 600, 900, 1500, 2500	RF, RTJ, P

Cast Iron Valve

CAST IRON OS&Y GATE VALVE
CLASS 125,CLASS 250

DESIGN FEATURES

- Design in accordance with MSS SP-70
- CLASS 125
- Outside Screw & Yoke (OS&Y)
- Cast Iron Construction
- Bolted Body design
- Handwheel Operated
- Face to Face dimensions as per ANSI B16.10
- Flanged drilled as per ANSI B16.1

125 psi (8.6 Bar) Saturated Stem @ 353°F (178°C)
200 psi (13.8 Bar) Cold water pressure @ -20°F(-29 °C) to 150 °F(66°C).

API 603 Cast Stainless Steel & Special Alloy

API 603 GATE VALVE
CLASS 150,CLASS 300,CLASS 600

DESIGN FEATURES:

- Design in accordance with API - 603
- Outside Screw & Yoke (OS&Y)
- Flexible Wedge
- Handwheel operated as standard
- Integral Yoke
- Flange dimensions as per ASME B16.5
- End to end dimension as per ASME B16.10
- WE dimensions as per ASME B16.25

Catalog Figure No.	ID Plant Figure No.	Type of Ends
S5202RF	S5202F	Flanged Raised Face
S5202RTJ	S5202RJ	Ring Type Joint
S5202WE	S5202WE	Buttweld

API 602 Valve

API 602 GATE VALVE TH&SW
CLASS 800,CLASS 1500,CLASS 2500

Design Characteristics

- API 602 & ASME B16.34
- Bolted or Welded Bonnet
- Solid Wedge
- Stem with ACME Threaded (OS&Y)
- Bolted Gland Bushing
- Standard or Full Port
- Threaded, Socket Weld or Threaded x Socket Weld
- Spiral Wound Gasket
- Expanded Seat Rings

PORT	CLASS	CATALOG FIGURE No.	ENDS TYPES
Standard	800 Bolted Bonnet	950S 950SW 950SSW	Threaded Socket Weld Threaded X Socket Weld
Full	800 Bolted Bonnet	958S 958SW 958SSW	Threaded Socket Weld Threaded X Socket Weld
Standard	800 Welded Bonnet	957S 957SW 957SSW	Threaded Socket Weld Threaded X Socket Weld
Full	800 Welded Bonnet	959S 959SW 959SSW	Threaded Socket Weld Threaded X Socket Weld

Floating Ball Valve

STANDART FLOATING BALL VALVE
CLASS 1000 WOG,CLASS 2000 WOG

Design Features

- Design in accordance with MSS SP100
- CLASS 1000 WOG
- Full Port
- Three-pieces body
- Investment Cast Steel Construction
- Bolted Body
- Threaded ends as per ASME B1.20.1
- Socket weld ends as per ASME B16.11
- End to end dimensions as per WALWORTH standard

Lever Operator	
Catalog Figure No.	Type of Ends
7011	Threaded (S)
7017	Socket Weld (SW)

Trunnion Mounted Ball Valve

TRUNNION MOUNTED BALL VALVE BOLTED BODY (Lever Operated)
CLASS 150,CLASS 300,CLASS 900,CLASS 1500,CLASS 2500

Design Features

- Sizes NPS (DN): 2"(50mm) to 48"(1200mm)
- ASME Class: 150 #
- Temperature ratings: -50°C to 121°C (standard design)
- Design: API 6D/ISO14313, ASME B16.34
- Face to face, end to end: API 6D, ASME B16.10
- Butt weld ends: ASME B16.25
- Test: API 6D, API 598, ISO 5208
- Fire test: API 6FA, BS6755, API607
- Sour environments: NACE MR-01-75
- Seals area overlay: Upon request

Catalog Figure No.	Type of Ends
8112	Raised Face (RF)
8113	Ring Type Joint (RTJ)
8114	Buttweld (WE)

Expanding Gate Valve

EXPANDING GATE VALVE ASME PRESSURE (Handwheel Operated)
CLASS 150,CLASS 300,CLASS 900,CLASS 1500

DESIGN FEATURES

a) Design in accordance with API-6D.
b) Rising stem.
c) Flanged dimensions as per ASME B16.5.
d) For valves 26" and larger, flange dimensions as per ASME B16.47 Series A.
e) End to end dimensions as per API-6D table 2 figure 1 (Valves not listed in this table as per ASME B16.10).
f) WE dimensions as per ASME B31.4 and/ or ASME B31.8 and tapered as per ASME B16.25 figure 1.
g) Full opening through conduit.
h) Sizes from 2" to 8" handwheel operated as standard.

FIGURE No.	OPERATION	TYPE OF ENDS
3DE12	Handwheel	RF
3DE13	Handwheel	RTJ
3DE14	Handwheel	WE

Bronze Valve

INDUSTRIAL BRONZE NRS GATE VALVE
CLASS 125 (200WOG),CLASS 150 (300WOG)

DESIGN FEATURES

- Design in accordance with MSS SP-80
- Non-Rising Stem
- Bronze construction
- Integral seat rings
- Screwed bonnet design
- Threaded ends as per ANSI B1.20.1
- Face to face dimensions as per WALWORTH design
- Handwheel operated

CATALOG FIGURE NO.	TYPE OF ENDS
W4	Threaded Ends

Slab Valve

SLAB GATE VALVE (Gear Operated)
CLASS 150,CLASS 300,CLASS 600,CLASS 900.CLASS 1500

DESIGN FEATURES:

- Design in accordance with API-6D
- Rising stem
- Flange dimensions as per ASME B16.5
- For valves 26" and larger, flange dimensions as per ASME B16.47 Series A
- End to end dimensions as per API-6D table 2 and figure 2 (valves not listed in this table as per ASME B16.10)
- WE dimensions as per ASME B31.4 and/or ASME B31.8 and tapered as per ASME B16.25 figure 1
- Full opening
- Size from 2" to 24" Handwheel operated as standard

FIGURE No.	OPERATION	TYPE ON ENDS
1912	Handwheel	RF
1913	Handwheel	RTJ
1914	Handwheel	WE

Iron Plug Valve

IRON PLUG VALVE SHORT PATTERN
SINGEL GLAND TYPE (Lever Operated) CLASS 200 CWP

Design Features

- Threaded ends in accordance with ASME B1.20.1
- Flat Face Flanged ends in accordance with ASME B16.1
- Design in accordance with MSS SP-78
- Test in accordance with API 598 & MSS SP 78

Figure no.	Operation	Type of ends
1796	Lever operated	THREADED
1797F	Lever operated	FLAT FACE FLANGED

Steel Plug Valve

COMPENSATOR PLUG VALVE
SHORT PATTERN (Wrench Operated) CLASS 150, CLASS 300

Design Features

- Flanged Dimensions conform to ANSI/ASME B16.5, B16.34
- Butt-weld Dimensions conform to ANSI/ASME B16.25
- Design as per API 6D
- Fire Test as per API 6FA

Figure no.	Operation	Type of ends
1412	Wrench	RF
1414	Wrench	WE

Pressure Seal Valve

PRESSURE SEAL GATE VALVE (Handwheel Operated)
CLASS 600, CLASS 900, CLASS 1500

Design Features

- Design in accordance with ASME B16.34
- WE short pattern; RF & RTJ long pattern as per ASME B16.10
- Outside Screw & Yoke (OS&Y)
- Flexible wedge
- Option with Parallel Slide disc available upon request
- From 2" to 16" handwheel operated
- End to end dimensions as per ASME B16.10
- Flange dimensions as per ASME B16.5
- Weld end dimensions as per ASME B16.25

Catalog figure No.	ID plant figure No.	Type of ends
5232PSWE	5232PSWE	Buttweld
5232PSRF	5232PSF	Flanged raised face
5232PSRTJ	5232PSRJ	Flanged ring type joint

Safety & Relief Cast Steel

CAST STEEL SAFETY & RELIEF VALVE (Lever & Non Lever)

Design Features

- Orifice from "D" to "T"
- Inlet size x outlet size from 1"x 2" to 8"x 10" flanged ends
- Class 150x150 to 600x150
- Closed Bonnet
- Full Nozzle
- Screwed Cap
- Actuated by Chrome Alloy 32°F (0 °C)up to 428°F (220 °C) Inconel X750 -328 °F(-200 °C) up to 1022 °F(550 °C)
- Minimum Set Pressure 15 psig (1.05 kg/cm²)

  *Valves with set pressure less than 15 psig cannot be stamped with the ASME stamp.

Type	Size	Inlet X Oulet Flange Class	Ends
Safety and Relief Steel Valves	1" x 2" to 8" x 10"	150 x 150, 300 x 150, 600 x 150 psig.	RF or RTJ
Type	**Size**	**Set Pressure**	**Ends**
Portable Safety and Relief Steel Valves	3/4" x 1" / 2" x 2"	Up to 2000 psig / Up to 5000 psig	Threaded, Socket Weld or RF or RTJ
Safety and Relief Steel Valves	1" x 2" to 8" x 10"	15 to 1480 psig	RF or RTJ

BRONZE PRESSURE SAFETY & RELIEF VALVE (Lever & Non Lever)

Design Features

For Safety Valves (gas or steam service)

- Lateral discharge (to the pipeline, the recovery line, or the atmosphere)
- NPT male threaded input, in accordance with ANSI B1.20.1
- NPT female threaded output, in accordance with ANSI B1.20.1
- Minimum set pressure 15 psig (1.05 Kg./cm²)
- Maximum set pressure with steam 300 psig (21.10 Kg/cm²)
- Maximum set pressure with air or gas 300 psig (21.10 Kg/cm²) to 350 psig (24.61 Kg/cm²)
- Available in soft seat trim

For Relief Valves (non corrosive bronze liquid service)

- Lateral discharge (to the pipeline or the recovery line)
- NPT male threaded inlet connection, in accordance with ANSI B1.20.1
- NPT female threaded connection, in accordance with ANSI B1.20.1
- Minimum set pressure 5 psig (0.35 Kg./cm²)
- Maximum set pressure (except 3"): 300 psig (21.10 Kg./cm²), for 3": 150 psig (10.55 Kg/cm²)

Type	Size	Maximum Set Pressure	Ends
Bronze Safety Valves	1/2" to 2 1/2"	250 to 300 psig (steam), 350 (air or gas)	Threaded NPT (male-female)
Bronze Relief Valves	1/2" to 3"	300 psig Except 3" which is 150 psig.	Threaded NPT (male-female)