



About Us

From its beginning in 1983, Truemark has serviced a large number of diverse manufacturers, distributors and wholesalers worldwide. With more than 34 years sourcing experience, Truemark has profound knowledge in sourcing business and the import/export process, and well-established connections with some of the best quality foundries and machine shops in all of Asia.

COOPERATIVE PARTNERS





Quality Assurance

ISO 9001, Manufactures Selection, Evaluation, and Control

At Truemark, we maintain an ISO 9001 quality management system with strong emphasis on the continual improvement of quality, engineering, manufacturing, and business related processes. The scope of this quality management system covers all processes directly and indirectly related to the design, manufacture, assembly, and test of our products. Products included in that scope are: stainless steel, carbon steel, special alloy, chrome, iron, and bronze valves.

The quality management system also makes provision for the control of purchased component products, which requires that these suppliers also maintain an ISO 9001 based quality system and the subsequent certification. It is the intent of the company to partner with its supply base in order to develop a strong and continuous relationship that is imperative to the quality, success, and future of the company. Procurement of outsourced processes and services that affect product conformity, such as, RT, MT, PT, and calibration of measurement and test equipment, are also controlled in the same manner.

The procurement process is controlled by specific guidelines and procedures established in the company's quality manual, supporting tiers of procedures, and work instructions. The level of control exerted is dependent on the type of product or service, and the impact on the quality of the final products and services provided to our customer. There are procedures detailing criteria to determine the capability of manufactures, which include the selection, evaluation, and re-evaluation of manufactures. Manufactures furnishing vital materials and products are audited on a regular basis to determine the adequacy of their quality system. The manufactures that meet the requirements are listed on the Approved Manufactures List (AML) with the manufactures performance being monitored and evaluated for quality and capacity capabilities. The corrective action process shall be used when a manufacture fails to meet quality system requirements, or when the conformance of products and/or services is deemed unacceptable. Removal from the AML may be necessary if the supplier fails to meet the system requirements, or in cases of repetitive non-conformance.

Truemark is committed to meet our customers' expectations in the manufacture of quality valves and associated services. We will work as a team in providing error free products and services on time with a commitment on continual improvement. That quality policy statement promotes the close relationships between the manufactures, supply chains, and customer expectations of Truemark's products and services.



API 6A

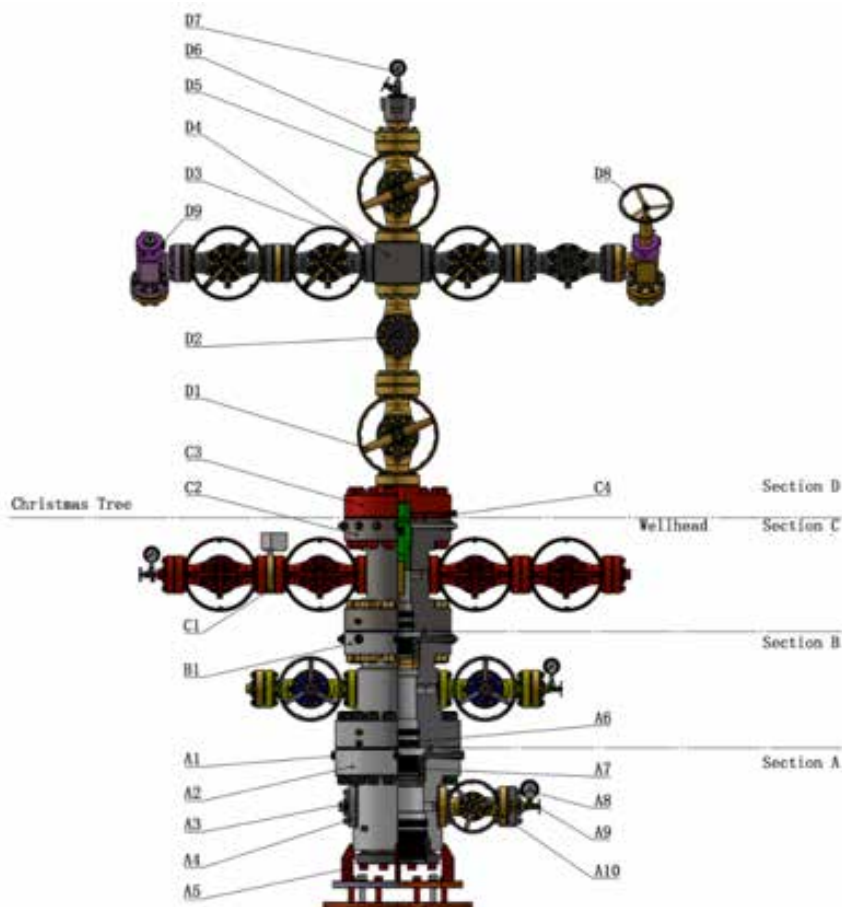
All TMK products are manufactured to API 6A Specifications as a basic minimum, in a plant that is API Q1 and ISO 9001 approved and Certified.



Wellhead Equipment

WELLHEAD EQUIPMENT & CHRISTMAS TREE ASSY

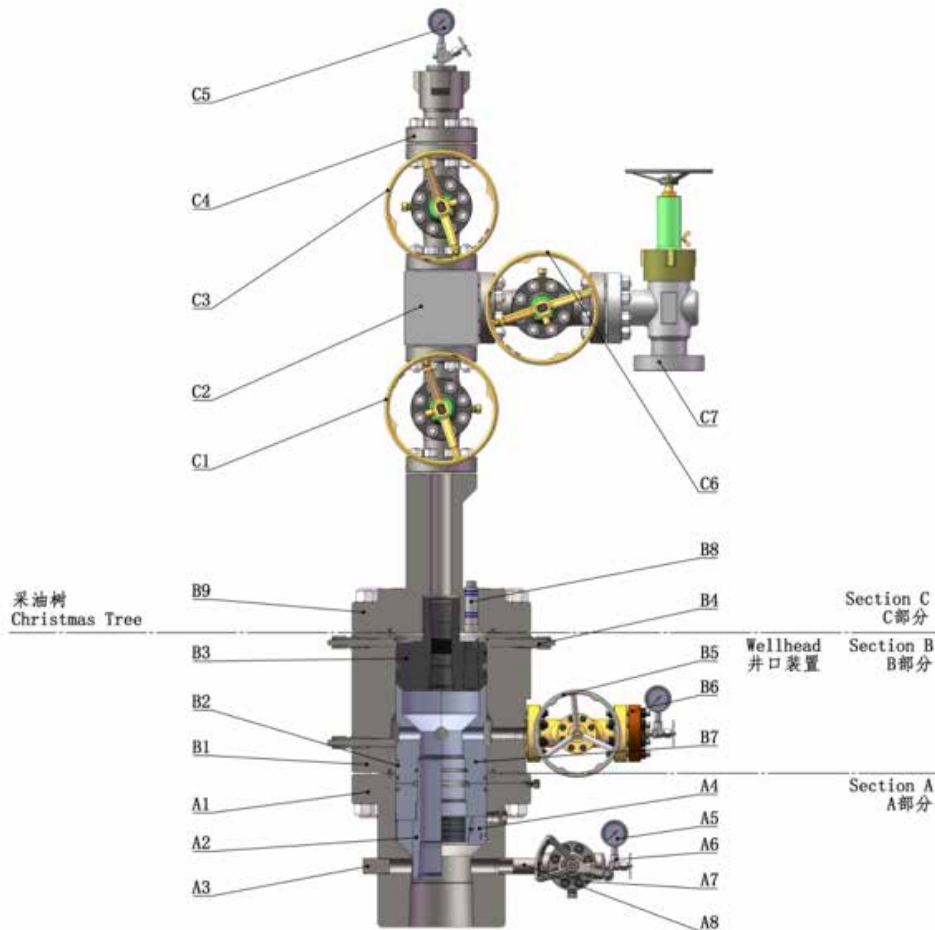
Common Customized Wellhead Equipment And Christmas Tree



- | | | | |
|---------------------|----------------------|------------------------|--------------------------|
| A1 Lock Screw | A7 Casing Hanger | C2 Tubing Head | D4 Cross |
| A2 Casing Head | A8 Pressure Gauge | C3 Tubing Head Adapter | D5 Swab Valve |
| A3 Bull Plug | A9 Needle Valve | C4 Tubing Hanger | D6 Tree Cap Test Adapter |
| A4 Companion Flange | A10 Gate Valve | D1 Lower Master Valve | D7 Pressure Gauge |
| A5 Base Plate | B1 Casing Spool | D2 Upper Master Valve | D8 Adjustable Choke |
| A6 Secondary Seal | C1 Instrument Flange | D3 Wing Valve | D9 Positive Choke |



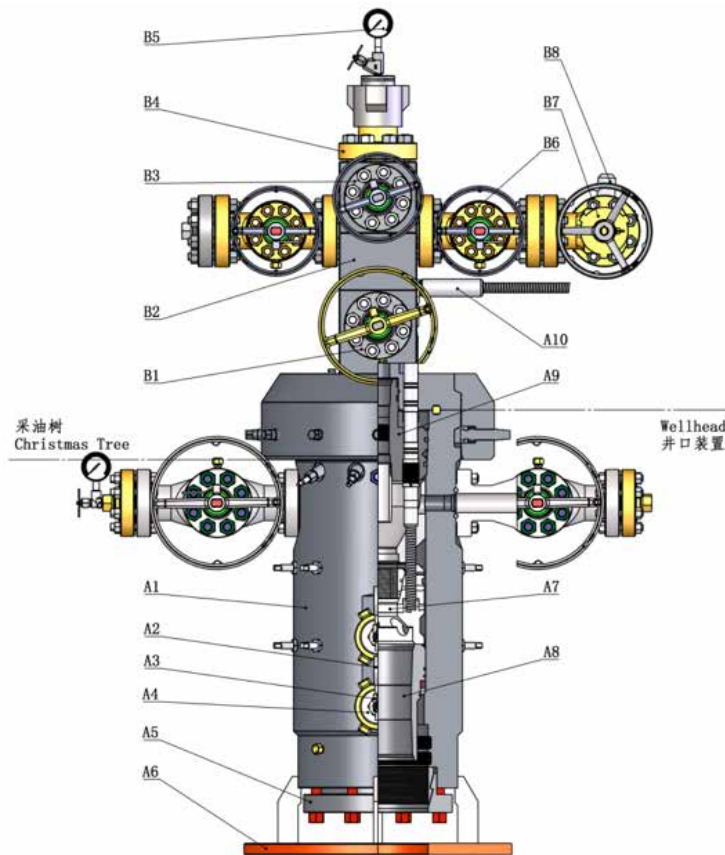
ESP /MBS Unihead And Christmas Tree



- | | | | |
|---------------------|----------------------|------------------------|--------------------------|
| A1 Lock Screw | A7 Casing Hanger | C2 Tubing Head | D4 Cross |
| A2 Casing Head | A8 Pressure Gauge | C3 Tubing Head Adapter | D5 Swab Valve |
| A3 Bull Plug | A9 Needle Valve | C4 Tubing Hanger | D6 Tree Cap Test Adapter |
| A4 Companion Flange | A10 Gate Valve | D1 Lower Master Valve | D7 Pressure Gauge |
| A5 Base Plate | B1 Casing Spool | D2 Upper Master Valve | D8 Adjustable Choke |
| A6 Secondary Seal | C1 Instrument Flange | D3 Wing Valve | D9 Positive Choke |



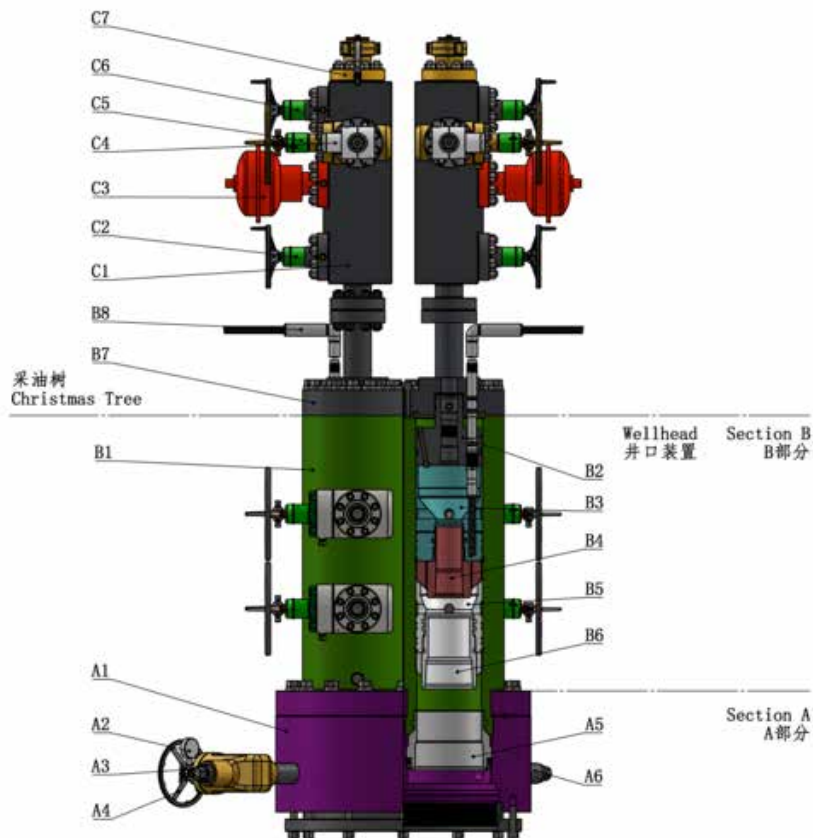
Integrated Fast Installed Wellhead Equipment And Christmas Tree



- | | | | |
|---------------------|----------------------|------------------------|--------------------------|
| A1 Lock Screw | A7 Casing Hanger | C2 Tubing Head | D4 Cross |
| A2 Casing Head | A8 Pressure Gauge | C3 Tubing Head Adapter | D5 Swab Valve |
| A3 Bull Plug | A9 Needle Valve | C4 Tubing Hanger | D6 Tree Cap Test Adapter |
| A4 Companion Flange | A10 Gate Valve | D1 Lower Master Valve | D7 Pressure Gauge |
| A5 Base Plate | B1 Casing Spool | D2 Upper Master Valve | D8 Adjustable Choke |
| A6 Secondary Seal | C1 Instrument Flange | D3 Wing Valve | D9 Positive Choke |



Conductor Sharing Wellhead Equipment And Christmas Tree



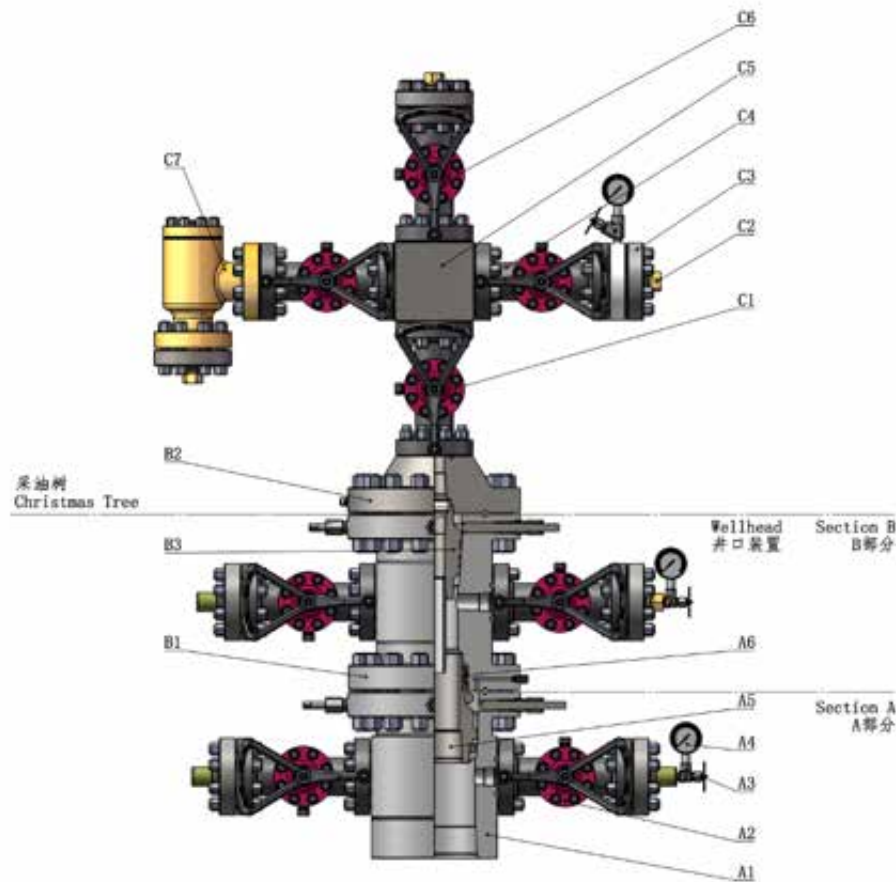
- | | | | |
|---------------------|----------------------|------------------------|--------------------------|
| A1 Lock Screw | A7 Casing Hanger | C2 Tubing Head | D4 Cross |
| A2 Casing Head | A8 Pressure Gauge | C3 Tubing Head Adapter | D5 Swab Valve |
| A3 Bull Plug | A9 Needle Valve | C4 Tubing Hanger | D6 Tree Cap Test Adapter |
| A4 Companion Flange | A10 Gate Valve | D1 Lower Master Valve | D7 Pressure Gauge |
| A5 Base Plate | B1 Casing Spool | D2 Upper Master Valve | D8 Adjustable Choke |
| A6 Secondary Seal | C1 Instrument Flange | D3 Wing Valve | D9 Positive Choke |

Dimensions:

- Working Pressure** 2000PSI~20000PSI
- Temperature Classification** -60°C ~ 121°C (K ~ U)
- Material Class** AA, BB, CC, DD, EE, FF, HH
- Spec. Level** PSL1~ PSL4
- Performance Require** PR1 PR2



Thermal Recovery Wellhead Equipment And Christmas Tree



- | | | | |
|---------------------|----------------------|------------------------|--------------------------|
| A1 Lock Screw | A7 Casing Hanger | C2 Tubing Head | D4 Cross |
| A2 Casing Head | A8 Pressure Gauge | C3 Tubing Head Adapter | D5 Swab Valve |
| A3 Bull Plug | A9 Needle Valve | C4 Tubing Hanger | D6 Tree Cap Test Adapter |
| A4 Companion Flange | A10 Gate Valve | D1 Lower Master Valve | D7 Pressure Gauge |
| A5 Base Plate | B1 Casing Spool | D2 Upper Master Valve | D8 Adjustable Choke |
| A6 Secondary Seal | C1 Instrument Flange | D3 Wing Valve | D9 Positive Choke |

Dimensions:

- Working Pressure** 2000PSI~20000PSI
- Temperature Classification** -60°C ~ 121°C (K ~ U)
- Material Class** AA, BB, CC, DD, EE, FF, HH
- Spec. Level** PSL1~ PSL4
- Performance Require** PR1 PR2



Gate Valve

HS - Hydraulic Actuator Surface Safety Valve



HI - Hydraulic Indication Gate Valve



PF - Gate Valve



FC - Gate Valve



MH - High Temperature Gate Valve



HY - Hydraulic Gate Valve



BS - Ball Screw Gate Valve



AS - Pneumatic Actuator Surface Safety Valve



GR - Gear Gate Valve



ME - Expanding Gate Valve





Gate Valve

Size	1-13/16~7 1/16	
Working Pressure	2000 psi~20000 psi	
Material Class	-60°C ~ 121°C (K ~ U)	
Temperature Classification	AA BB CC DD EE FF HH	
Spec. Level	PSL1~ 4	
Performance Require	PR1-2	
Type	Type No.	Application
Safety Valve	HS	Crude Oil, Natural Gas, & Mud Service
	AS	Crude Oil, Natural Gas, & Mud Service
ME - Expanding Gate Valve	ME	Crude Oil, Natural Gas, & Mud Service
MH - High Temperature Gate Valve	MH	Crude Oil, Natural Gas, & Mud Service
FC - Gate Valve	FC	Crude Oil, Natural Gas, & Mud Service
PF - Gate Valve	PF	Crude Oil, Natural Gas, & Mud Service
HY - Hydraulic Gate Valve	HY	Crude Oil, Natural Gas, & Mud Service
HI - Hydraulic Indication Gate Valve	HI	Crude Oil, Natural Gas, & Mud Service
BS - Ball Screw Gate Valve	BS	Crude Oil, Natural Gas, & Mud Service
GR - Gear Gate Valve	GR	Crude Oil, Natural Gas, & Mud Service



Check Valve

DS - Swing Check Valve



Size 1 13/16"~5 1/8"
Working Pressure 2000PSI~15000PSI
Working Medium Oil, Natural Gas, Mud, Containing H2S, CO2 Gas
Temperature Classification -60°C ~ 121°C (K ~ U)
Material Class AA, BB, CC, DD, EE, FF, HH
Spec. Level PSL1~ PSL4
Performance Require PR1 PR2

DR - Rise Check Valve



Size 1 13/16"~4 1/16"
Working Pressure 2000PSI~15000PSI
Working Medium Oil, Natural Gas, mud, Containing H2S, CO2 Gas
Temperature Classification -60°C ~ 121°C (K ~ U)
Material Class AA, BB, CC, DD, EE, FF, HH
Spec. Level PSL1~ PSL4
Performance Require PR1 PR2



Choke Valve



JO - Orifice Adjustable Chock Valve

Classification Orifice Adjustable Choke Valve

Code No. JOI

Application Mud, oil, natural gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 2000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification -60°C ~ 121°C (K ~ U)



JP - Positive Choke Valve

Classification Positive Choke Valve

Code No. JPI

Application Mud, oil, natural gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 2000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification -60°C ~ 121°C (K ~ U)



JA - Needle Adjustable Choke Valve

Classification Needle Adjustable Choke Valve

Code No. JAI

Application Mud, oil, natural gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 2000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification -60°C ~ 121°C (K ~ U)



Plug Valve



XZF - Flanged Plug Valve

Classification Flanged Plug Valve

Code No. XZFI

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 10000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

Spec. Level PSL1~PSL4

Performance Require PR1~PR2

End Connection Union/Flange/Thread



XZL - Threaded Plug Valve

Classification Threaded Plug Valve

Code No. XZL

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 10000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

Spec. Level PSL1~PSL4

Performance Require PR1~PR2

End Connection Union/Flange/Thread



XZU - Plug Valve

Classification Union Plug Valve

Code No. XZUI

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1 13/16"~4 1/16"

Working Pressure 10000~15000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

Spec. Level PSL1~PSL4

Performance Require PR1~PR2

End Connection Union/Flange/Thread



Ball Valve



QFH - High Temperature Ball Valve

Classification High Temperature Ball Valve

Code No. QFH

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1in 1 1/2in 2in 3in

Working Pressure 2000/3000/5000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

End Connection Thread



QFD - Fixed Ball Valve

Classification Fixed Ball Valve

Code No. AB-QFD

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1in 1 1/2in 2in 3in

Working Pressure 2000/3000/5000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

End Connection Thread



QF - Floating Ball Valve

Classification Floating Ball Valve

Code No. AB-QF

Application Oil, natural gas, slurry, containing H₂S, CO₂ gas

Dimensions

Bore Size 1in 1 1/2in 2in 3in

Working Pressure 2000/3000/5000psi

Material Class AA, BB, CC, DD, EE, FF, HH

Temperature Classification K, L, N, P, S, T, U, V, Y

End Connection Thread



Shut Valve



HP - High Pressure Shut Valve

Nominal Bore 1 13/16"~5 1/8"
Working Pressure 2000PSI~15000PSI
Working Medium Oil, Natural Gas, Mud, Containing H2S, CO2 Gas
Temperature Classification -60°C ~ 121°C (K ~ U)
Material Class AA, BB, CC, DD, EE, FF, HH
Spec. Level PSL1~ PSL4
Performance Require PR1 PR2

Needle Valve



JT - Angle Needle Valve JJ - Straight-through Needle Valve

Straight-through and angle needle valve rated 20000 psi and high pressure needle valve can be customized according to customer requirements

Size 1/4" 3/8" 1/2" 1"



Products - API 16A

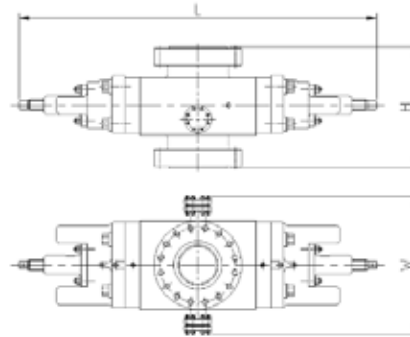
BOP

U Type Ram BOP

Singe u Ram BOP



Single U Ram BOP Dimensions:



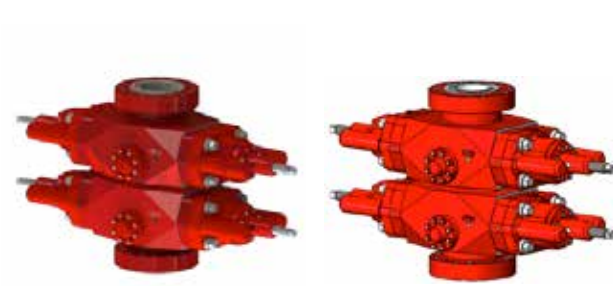
Model	SIZE (in)	Pressure Rating (psi)	Dimensions(mm)		
			L	W	H
FZ18-21	7-1/16(180mm)	3000(20.7MPa)	2100	760	615
FZ18-35	7-1/16(180mm)	5000(34.5MPa)	2100	800	700
FZ18-70	7-1/16(180mm)	10000(69MPa)	2100	850	780
FZ18-105	7-1/16(180mm)	15000(103.5MPa)	2100	870	810
FZ28-21	11(280mm)	3000(20.7MPa)	2800	1020	740
FZ28-35	11(280mm)	5000(34.5MPa)	2800	1080	870
FZ28-70	11(280mm)	10000(69MPa)	2800	1200	910
FZ28-105	11(280mm)	15000(103.5MPa)	3200	1200	1140
FZ35-21	13-5/8(346mm)	3000(20.7MPa)	3200	1200	800
FZ35-35	13-5/8(346mm)	5000(34.5MPa)	3200	1300	860
FZ35-70	13-5/8(346mm)	10000(69MPa)	3200	1350	1060
FZ35-105	13-5/8(346mm)	15000(103.5MPa)	3500	1400	1365
FZ53-21	20-3/4(527mm)	3000(20.7MPa)	4200	1450	1030
FZ54-14	21-1/4(540mm)	2000(13.8MPa)	4200	1400	945



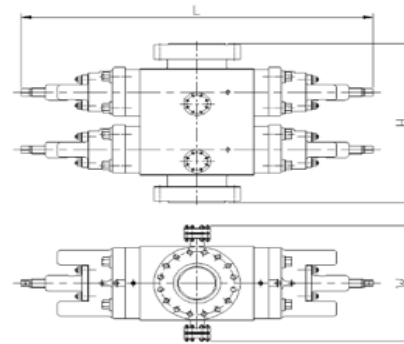
Products - API 16A

BOP

Double U Ram



Double U Ram BOP Dimensions:



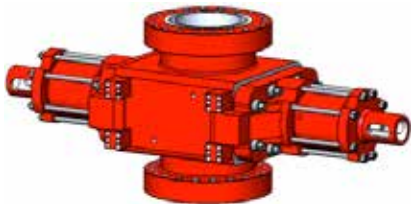
Model	SIZE (in)	Pressure Rating (psi)	Dimensions(mm)		
			L	W	H
2FZ18-21	7-1/16(180mm)	3000(20.7MPa)	2100	760	1050
2FZ18-35	7-1/16(180mm)	5000(34.5MPa)	2100	800	1130
2FZ18-70	7-1/16(180mm)	10000(69MPa)	2100	850	1260
2FZ18-105	7-1/16(180mm)	15000(103.5MPa)	2100	870	1300
2FZ28-21	11(280mm)	3000(20.7MPa)	2800	1020	1260
2FZ28-35	11(280mm)	5000(34.5MPa)	2800	1080	1380
2FZ28-70	11(280mm)	10000(69MPa)	2800	1200	1420
2FZ28-105	11(280mm)	15000(103.5MPa)	3200	1200	1840
2FZ35-21	13-5/8(346mm)	3000(20.7MPa)	3200	1200	1360
2FZ35-35	13-5/8(346mm)	5000(34.5MPa)	3200	1300	1420
2FZ35-70	13-5/8(346mm)	10000(69MPa)	3200	1350	1720
2FZ35-105	13-5/8(346mm)	15000(103.5MPa)	3500	1400	2080
2FZ53-21	20-3/4(527mm)	3000(20.7MPa)	4200	1450	1680
2FZ54-14	21-1/4(540mm)	2000(13.8MPa)	4200	1400	1600



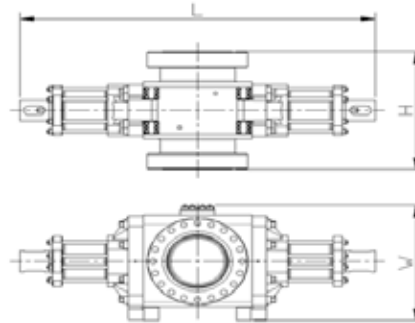
Products - API 16A

S Type Ram BOP

Single S Ram BOP



Single S Ram BOP Dimensions:



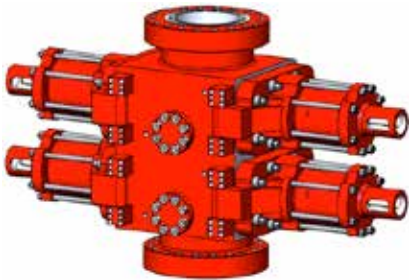
Model	SIZE (in)	Pressure Rating (psi)	Dimensions(mm)		
			L	W	H
FZ18-21	7-1/16(180mm)	3000(20.7MPa)	1420	650	620
FZ18-35	7-1/16(180mm)	5000(34.5MPa)	1420	650	630
FZ18-70	7-1/16(180mm)	10000(69MPa)	1800	715	830
FZ23-21	9(230mm)	3000(20.7MPa)	1730	600	580
FZ23-35	9(230mm)	5000(34.5MPa)	2030	865	820
FZ28-21	11(280mm)	3000(20.7MPa)	2265	820	800
FZ28-35	11(280mm)	5000(34.5MPa)	2265	840	950
FZ28-70	11(280mm)	10000(69MPa)	2390	950	1050
FZ35-21	13-5/8(346mm)	3000(20.7MPa)	2470	970	900
FZ35-35	13-5/8(346mm)	5000(34.5MPa)	2470	970	950
FZ35-70	13-5/8(346mm)	10000(69MPa)	3280	1490	1275
FZ53-21	20-3/4(527mm)	3000(20.7MPa)	3400	1200	1070
FZ54-14	21-1/4(540mm)	2000(13.8MPa)	3400	1200	915



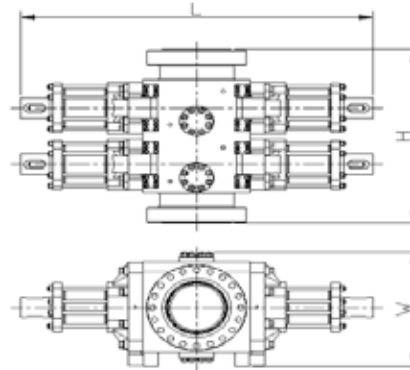
Products - API 16A

S Type Ram BOP

Double S Ram BOP



Double S Ram BOP Dimensions:



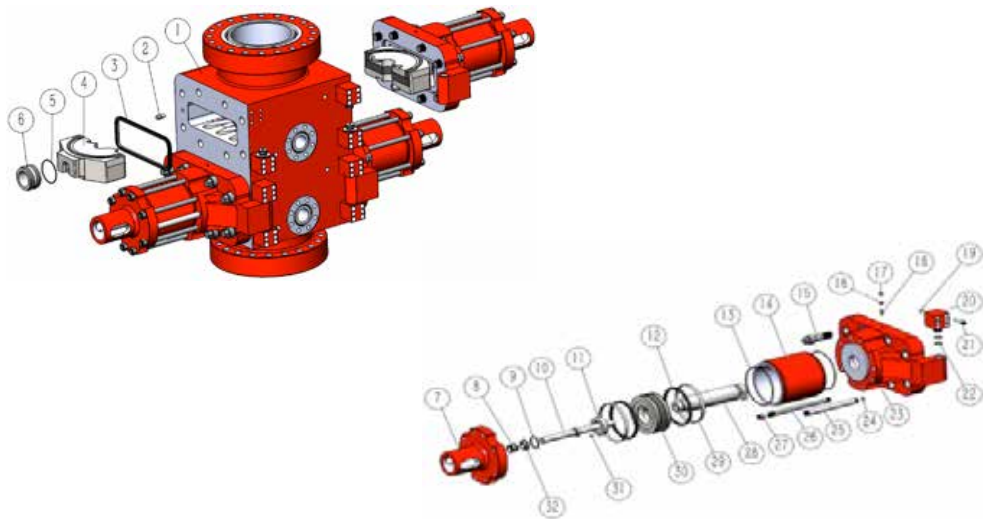
Model	SIZE (in)	Pressure Rating (psi)	Dimensions(mm)		
			L	W	H
2FZ18-21	7-1/16(180mm)	3000(20.7MPa)	1420	650	880
2FZ18-35	7-1/16(180mm)	5000(34.5MPa)	1420	650	910
2FZ18-70	7-1/16(180mm)	10000(69MPa)	1800	715	1265
2FZ23-21	9(230mm)	3000(20.7MPa)	1730	600	900
2FZ23-35	9(230mm)	5000(34.5MPa)	2030	865	1230
2FZ28-21	11(280mm)	3000(20.7MPa)	2265	820	1230
2FZ28-35	11(280mm)	5000(34.5MPa)	2265	840	1240
2FZ28-70	11(280mm)	10000(69MPa)	2390	950	1600
2FZ35-21	13-5/8(346mm)	3000(20.7MPa)	2470	970	1400
2FZ35-35	13-5/8(346mm)	5000(34.5MPa)	2470	970	1430
2FZ35-70	13-5/8(346mm)	10000(69MPa)	3280	1490	1735
2FZ53-21	20-3/4(527mm)	3000(20.7MPa)	3400	1200	1655
2FZ54-14	21-1/4(540mm)	2000(13.8MPa)	3400	1200	1505



Products - API 16A

S Type Ram BOP

Parts list of S Ram BOP:



NO.	Name		
		Single	Double
1	Body	1	1
2	Pin	2	4
3	Seal, Door	2	4
4	Ram assembly	1	2
5	Ring, Retainer	2	4
6	Sealing Assembly, Ram Shaft	2	4
7	Cylinder Head	2	4
8	Sealing Assembly, Locking Shaft	2	4
9	Ring, Retainer	2	4
10	Locking Shaft	2	4
11	Locking Plate	2	4
12	Seal, Operating Piston	4	8
13	O Ring	4	8
14	Cylinder	2	4
15	Bolt, Door	16	32

NO.	Name		
		Single	Double
16	Screw, Plastic Packing	2	4
17	Pipe Plug, Plastic Packing	2	4
18	Check Valve, Plastic Packing	2	4
19	O Ring	4	8
20	Hinge Bracket	4	8
21	Hex-Screw	16	32
22	O Ring	8	16
23	Door	2	4
24	O Ring	8	16
25	Cylinder Manifold	2	4
26	Bolt, Cylinder	16	32
27	Nut	16	32
28	Ram Shaft	2	4
29	Wear Ring, Operating Piston	4	8
30	Operating Piston	2	4
31	Hexagon Socket Set Screws	2	4
32	Gasket	2	4



Products - API 16A

Annular BOP



Bolted-Cover Spherical BOP

Spherical Sealing Element;
Pressure Rating≤35MPa; Top cover and
shell are connected by a flange.



Wedge-Cover Spherical BOP

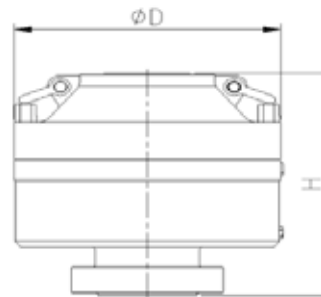
Spherical Sealing Element;
Pressure Rating=70MPa; Top cover and
shell are connected by a wedge block.



Latched Head BOP

Cone-shaped Sealing Element;
Top cover and Shell connected by a claw
chuck.

Annular BOP Dimensions:



Model	SIZE (in)	Pressure Rating (psi)	Dimensions(mm)	
			D	H
FH18-21	7-1/16(180mm)	3000(20.7MPa)	1420	770
FH18-35	7-1/16(180mm)	5000(34.5MPa)	750	800
FH18-70	7-1/16(180mm)	10000(69MPa)	750	1100
FH23-21	9(230mm)	3000(20.7MPa)	1100	840
FH23-35	9(230mm)	5000(34.5MPa)	910	970
FH28-21	11(280mm)	3000(20.7MPa)	1020	870
FH28-35	11(280mm)	5000(34.5MPa)	1020	1100
FH28-70	11(280mm)	10000(69MPa)	1150	1350
FH35-21	13-5/8(346mm)	3000(20.7MPa)	1450	1110
FH35-35	13-5/8(346mm)	5000(34.5MPa)	1280	1150
FH35-70	13-5/8(346mm)	10000(69MPa)	1280	1500
FHz53-21	20-3/4(527mm)	3000(20.7MPa)	1650	1360
FHz54-14	21-1/4(540mm)	2000(13.8MPa)	1400	1400



Products - API 16A

Parts list of Wedge-Cover Spherical



No.	NAME	Qty.
1	Body	1
2	Wear Ring, Body	1
3	Seal, Piston I.D.	2
4	Wear Ring, Piston	2
5	Seal, Piston O.D.	2
6	Piston	1
7	Seal, Adapter I.D.	2
8	Adapter Ring	1
9	Seal, Adapter Top	1
10	O Ring	1
11	Element	1
12	Shell	1
13	Locking Segment	12
14	Locking Ring	1
15	Bolt	12
16	Nut	12
17	Lifting Screw	12



Products - API 16C



JGY Choke Manifold

Dimensions

Pressure 2000PSI - 20000PSI

Temperature A/B/K/P/U

Size 2 1/16" - 4 1/16"

Material EE/FF/HH

Spec. Level PSL3-PSL4

Remote Options Manual / Hydraulic / Pneumatic



YG - Kill Manifold

Dimensions

Pressure 2000PSI - 20000PSI

Temperature A/B/K/P/U

Size 2 1/16" - 4 1/16"

Material EE/FF/HH

Spec. Level PSL3-PSL4



DMJG Surface Manifold

Dimensions

Pressure 2000PSI - 20000PSI

Temperature A/B/K/P/U

Size 2 1/16" - 4 1/16"

Material EE/FF/HH

Spec. Level PSL3-PSL4



Products - API 16C



DGN - Multifunctional Manifold

Dimensions

Pressure 2000PSI - 20000PSI

Temperature A/B/K/P/U

Size 2 1/16" - 4 1/16"

Material EE/FF/HH

Spec. Level PSL3-PSL4



GH - Cementing Manifold

Dimensions

Pressure 3000PS - 15000PSI

Temperature A/B/K/P/U

Size 2" - 3"

Material EE/FF/HH

Spec. Level PSL3-PSL4



Union Ascending Pipe

Dimensions

Pressure 6000PSI - 15000PSI

Temperature A/B/K/P/U

Size 2" - 4"

Material EE/FF/HH

Spec. Level PSL3-PSL4



API 6D

Ball Valves

Ball valve takes ball with circular hole as opening and closing element. The ball is driven by valve stem to rotate 90° around valve stem to perform opening and closing. The valve is used to cut off or switch on the medium within pipeline, and widely used in petroleum refining, long-distance transportation pipeline, chemical, paper making, pharmaceutical, water conservancy, electric power, municipal and steel, etc. Special consideration is made to strength, safety, resistance to harsh environment during design. It's suitable for various corrosive and non-corrosive mediums. Different materials may be selected for transportation of water, steam, oil, natural gas, nitric acid, acetic acid, oxidant and urea. Ball valve has compact structure and reliable sealing. Its sealing surface and spherical surface are closed normally which make it resistant to flush erosion by the medium, and easy to operate and repair.



2-PC Body Floating Ball Valve

- Design standard:** ASME B16.34/ API 608
- Length of structure:** ASME B16.10
- Flange connecting end:** ASME B16.5
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** ASME B16.34
- Fireproof test:** API 607/API 6FA

Inspection and test: API 598

Pressure and temperature rating: ASME B16.34

Product scope: 1/2"~ 8", CLASS150~CLASS 600

Main body material: WCB, LCB, WCC, CF8, CF8M, CF3, C3M, A890 4A, A105, LF2, F304, F316, F304L, F316L etc.

Valve seat material: PTFE, RPTFE, NYLON, DEVLON, Derlin, PEEK, PPL or metal hard seal etc.

Drive device: handle, worm wheel, electric, pneumatic etc.



API 6D



3 – PC Floating Ball Valve

Design standard: BS 5351

Butt welding connecting end: ASME B16.25

Wall thickness: ASME B16.34

Fireproof test: API 607/API 6FA

Inspection and test: API 598

Pressure and temperature rating: ASME B16.34

Product scope: 1/4"~ 2", CLASS 800~CLASS 1500

Main body material: A105, LF2, F304, F316, F304L, F316L etc.

Valve seat material: PTFE, RPTFE, NYLON, DEVLON, Derlin, PEEK, PPL etc

Drive device: handle, worm wheel, electric, pneumatic etc



2 – PC Trunnion Ball Valve

Design standard: API 6D

Length of structure: API 6D. For product beyond the scope of the standard, it shall be manufactured by specifications in BTL standard or user's requirements.

Flange connecting end: ASME B16.5/ASME B16.47

Butt welding connecting end: ASME B16.25/ ASME B31.8

Wall thickness: ASME B16.34

Fireproof test: API 607/API 6FA

Inspection and test: API 6D

Pressure and temperature rating: ASME B16.34

Product scope: 1-1/2"~60", CLASS150~CLASS 900

Main body material: WCB, LCB, WCC, CF8, CF8M, CF3, C3M, A890 4A, A105, LF2, F304, F316, F304L, F316L etc.

Valve seat material: PTFE, RPTFE, NYLON, DEVLON, Derlin, PEEK, PPL, HNBR, FKM or metal hard seal etc.

Drive device: handle, worm wheel, electric, pneumatic, pneumatic- hydraulic, electro-hydraulic, etc.



API 6D



3 – PC Trunnion Ball Valve

Design standard: API 6D

Length of structure: API 6D. For product beyond the scope of the standard, it shall be manufactured by specifications in BTL standard or user's requirements.

Flange connecting end: ASME B16.5/ASME B16.47

Butt welding connecting end: ASME B16.25/ ASME B31.8

Wall thickness: ASME B16.34

Fireproof test: API 607/API 6FA

Inspection and test: API 6D

Pressure and temperature rating: ASME B16.34

Product scope: 1-1/2"~60", CLASS150~CLASS 900

Main body material: WCB, LCB, WCC, CF8, CF8M, CF3, CF3M, A890 4A etc.

Valve seat material: PTFE, RPTFE, NYLON, DEVLON, Derlin, PEEK, PPL, HNBR, FKM or metal hard seal etc.

Drive device: handle, worm wheel, electric, pneumatic, pneumatic- hydraulic, electro-hydraulic, etc.



Full-Welded Ball Valve

Design standard: API 6D

Length of structure: API 6D. For product beyond the scope of the standard, it shall be manufactured by specifications in BTL standard or user's requirements.

Flange connecting end: ASME B16.5/ASME B16.47

Butt welding connecting end: ASME B16.25/ ASME B31.8

Wall thickness: ASME B16.34

Fireproof test: API 607/API 6FA

Inspection and test: API 6D

Pressure and temperature rating: ASME B16.34

Product scope: 4"~60", CLASS150 ~CLASS1500

Main body material: A105, LF2, F304, F316, F304L, F316L, F51 etc.

Valve seat material: PTFE, RPTFE, NYLON, DEVLON, Derlin, PEEK, PPL, HNBR, FKM or metal hard seal etc.

Drive device: handle, worm wheel, electric, pneumatic, pneumatic- hydraulic, electro-hydraulic, etc.



API 6D

Gate Valve

Opening and closing part of gate valve is flashboard. Its direction of motion is perpendicular to the direction of fluid. The valve is usually used to cut-off medium. The entire flow channel is a straight-through passage when the valve is fully-open, and the pressure loss of medium running is minimum. Gate valve is usually divided into several types by seal part mode, such as: wedge gate valve, plate gate valve, parallel 2-flashboard gate valve, wedge 2-flashboard gate valve. Gate valve is usually for working condition in which the valve is not opened or closed frequently, and supports flashboard fully open or fully closed. It's not suitable for adjustment or throttling. Different materials may be selected for transportation of water, steam, oil, natural gas, nitric acid, acetic acid, oxidant and urea.



API 600 Gate Valve

Design standard: API 600

Length of structure: ASME B16.10

Flange connecting end: ASME B16.5/ASME B16.47

Butt welding connecting end: ASME B16.25

Wall thickness: API 600/ASME B16.34

Inspection and test: API 598

Pressure and temperature rating: ASME B16.34

Product scope: 2"~ 56", CLASS 150~CLASS 2500

Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.



API 6D



API 602 Gate Valve

Design standard: API 602/BS5352

Length of structure: Length of structure of socket welding / thread end of forged steel gate valve is manufactured by factory standard. The length of structure of flange/ butt welding end of forged steel gate valve is manufactured by ASME B16.10

Flange connecting end: ASME B16.5

Butt welding connecting end: ASME B16.25

Wall thickness: API 602/ASME B16.34

Inspection and test: API 602

Pressure and temperature rating: ASME B16.34

Product scope: ½" ~ 3", CLASS150~CL2500

Main body material: A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.

Drive device: handle, bevel gear, electric, pneumatic, etc.



Expanding Gate Valve

Design standard: API 6D

Length of structure: API 6D.

Flange connecting end: ASME B16.5/ASME B16.47

Butt welding connecting end: ASME B16.25

Wall thickness: ASME B16.34

Inspection and test: API 6D

Pressure and temperature rating: ASME B16.34

Product scope: 2" ~ 36", CLASS 150~CLASS 900

Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.

Drive device: handle, bevel gear, electric, pneumatic, etc.



API 6D



Slab Gate Valve

- Design standard:** AAPI 6D
- Length of structure:** API 6D
- Flange connecting end:** ASME B16.5/ASME B16.47
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** ASME B16.34
- Inspection and test:** API 6D

- Pressure and temperature rating:** ASME B16.34
- Product scope:** 2"~ 60", CLASS 150~CLASS 1500
- Main body material:** WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.
- Drive device:** handle, bevel gear, electric, pneumatic, etc.

Globe Valve

Globe valve is a kind of valve with closing part making a linear motion along the center line of valve seat. As the opening and closing stroke of valve stem is relatively short, and with reliable cut off function, and the change of valve seat orifice and stroke of valve clack are proportional, the valve is really suitable for flow regulating. It may be used for cut off or regulating as well as throttling of fluid pipeline for city water, sewage, construction, food, electric power, medicine, metallurgy and textile.



BS 1873 Globe Valve

- Design standard:** BS 1873
- Length of structure:** ASME B16.10
- Flange connecting end:** ASME B16.5
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** ASME B16.34
- Inspection and test:** API 598
- Pressure and temperature rating:** ASME B16.34

- Product scope:** 2"~ 24", CLASS 150~CLASS 2500
- Main body material:** WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.
- Drive device:** handle, bevel gear, electric, pneumatic, etc.



API 6D



API 602 Globe Valve

Design standard: API 602 / BS5352

The length of the structure: length of structure of socket welding / thread end of forged steel gate valve is manufactured by factory standard. The length of structure of flange/ butt welding end of forged steel gate valve is manufactured by ASME B16.10

Flange connecting end: ASME B16.5

Butt welding connecting end: ASME B16.25

Wall thickness: API 602 / ASME B16.34

Inspection and test: API 602

Pressure and temperature rating: ASME B16.34

Product scope: 1/2"~ 4", CLASS 150~CLASS 4500

Main body material: A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.

Drive device: handle, bevel gear, electric, pneumatic, etc

Check Valve

Check valve is also known as one-way valve or non-return valve. It's a kind of valve with opening and closing part opens and closes automatically driven by flow and force of medium to prevent backflow of medium. Check valve is automatic valve, and mainly applied on pipeline with medium flows in one direction. The medium is allowed to flow only in one direction to prevent accident. BTL mainly manufactures four types of check valve: swing check valve, lifting check valve, tilting disc check valve and wafer check valve.



API 6D



API 6D / BS 1868 Swing Check Valve

- Design standard:** BS 1868/API 6D
- Length of structure:** ASME B16.10/API 6D
- Flange connecting end:** ASME B16.5/ASME B16.47
- Butt welding connecting end:** ASME B16.25
- Wall thickness :** ASME B16.34
- Inspection and test:** API 598 /API 6D

Pressure and temperature rating: ASME B16.34

Product scope: 2"~ 48", CLASS 150~CLASS 2500

Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.



API 602 Check Valve

- Design standard:** API 602/ BS 5352
- The length of the structure:** length of structure of socket welding / thread end of forged steel gate valve is manufactured by factory standard=ASME B16.10/ GB/T 12221. The length of structure of flange/ butt welding end of forged steel gate valve is manufactured by ASME B16.10/ GB/T 12221
- Flange connecting end:** ASME B16.5/GB/T 9113/HG/T

20592/ EN 1092.1

Butt welding connecting end: ASME B16.25/ GB/T 12224

Wall thickness: API 602/ASME B16.34/ GB/T 12224

Inspection and test: API 602/GB/T 13927

Pressure and temperature rating: ASME B16.34/ EN 12516 /GB/T 12224

Product scope: ½"~ 2" CLASS 150~CLASS 2500

Main body material: A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.



API 594 Check Valve

Design standard: API 594

Length of structure: API 594

Pipe flange: ASME B16.5

Wall thickness: ASME B16.34

Inspection and test: API 598

Pressure and temperature rating: ASME B16.34

Product scope: 1/2" ~ 36", CLASS 150~CLASS 2500

Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A, A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.

Butterfly Valve

Butterfly valve is a kind of valve that takes a disc as closing part (butterfly board) which rotates around the valve axis to achieve opening and closing. The valve is mainly for cut-off and throttling on pipeline. Butterfly board is driven by the valve stem. A opening and closing is completed as it rotates 90°. The flow of medium may be controlled by changing of deflection angle of butterfly board. Commonly used butterfly valve includes wafer butterfly valve, lug butterfly valve and flange butterfly valve. Butterfly valve is suitable for pipeline that transports various corrosive, non - corrosive fluids in producer, coal gas, natural gas, liquefied petroleum gas, city gas, hot and cold air, chemical smelting and power environmental protection, building water supply and drainage and other engineering systems for regulating and cut-off of medium flow.



Offset Butterfly Valve

Design standard: API 609

Length of structure: API 609

Flange connecting end: ASME B16.5/ASME B16.47

Wall thickness: ASME B16.34

Inspection and test: API 598

Pressure and temperature rating: ASME B16.34

Fireproof test: API 607

Product scope: 3" ~ 80", CLASS 150~CLASS 1500

Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A etc.

Drive device: handle, worm wheel, electric, pneumatic etc.



Y-Pattern Strainer

Strainer is one of the indispensable devices on medium transportation pipeline. It's usually installed on the input end of pressure reducing valve, pressure release valve, level control valve or other equipment. It's used to Strainer impurities in medium. It can Strainer rust, sand in sewage, small amount of solid particles in liquid and other impurities to protect normal operation of valve and equipment. Working principal: when fluid enters Strainer cartridge equipped with Strainer screen, the impurities are blocked, and clean filtrate is drained through Strainer outlet. For cleaning, just need to take the removable cartridge out and install it again after treatment.



Design standard: ASME B16.34
Length of structure: ASME B16.10
Flange connecting end: ASME B16.5
Wall thickness: ASME B16.34
Inspection and test: API 598
Pressure and temperature rating: ASME B16.34
Product scope: 2"~ 12", CLASS 150~CLASS 300 ,
Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A, A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.



Basket Strainer

Design standard: ASME B16.34
Length of structure: ASME B16.10
Flange connecting end: ASME B16.5
Wall thickness: ASME B16.34
Inspection and test: API 598
Pressure and temperature rating: ASME B16.34
Product scope: 2"~ 24", CLASS 150~CLASS 300
Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M A890 4A, etc.



Cryogenic Gate Valve

- Design standard:** API 600, API 602, BS 6364
- Length of structure:** ASME B16.10 or factory standard
- Flange connecting end:** ASME B16.5/ASME B16.47
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** API 600/ASME B16.34
- Inspection and test:** API 598

Pressure and temperature rating: ASME B16.34
Product scope: 1/2" ~ 36", CLASS 150~CLASS 1500
Main body material: LCB, LCC, LC3, CF8, CF8M, CF3, CF3, LF2, F304, F316, F304L, F316L etc.



Cryogenic Globe Valve

- Design standard:** BS 1873, API 602, BS 6364
- Length of structure:** ASME B16.10
- Flange connecting end:** ASME B16.5
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** ASME B16.34
- Inspection and test:** API 598

Pressure and temperature rating: ASME B16.34
Product scope: 1/2" ~ 16", CLASS 150~CLASS 1500
Main body material: LCB, LCC, LC3, CF8, CF8M, CF3, CF3, LF2 F304, F316, F304L, F316L etc.
Drive device: handle, bevel gear, electric, pneumatic, etc.



Cryogenic Ball Valve

- Design standard:** API 6D, API 608, ASME B16.34
- Length of structure:** API 6D/ASME B16.10
- Flange connecting end:** ASME B16.5
- Butt welding connecting end:** ASME B16.25
- Wall thickness:** ASME B16.34
- Inspection and test:** API 6D/API 598

Pressure and temperature rating: ASME B16.34
Fireproof test: API 607/API 6FA
Product scope: 1/2" ~ 12", CLASS 150~CLASS 2500
Main body material: LCB, LCC, LC3, CF8, CF8M, CF3, CF3M, LF2, F304, F316, F304L, F316L etc.
Drive device: handle, worm wheel, etc.



Bellow Valve

Bellows valve is a kind of valve that takes bellows as valve stem seal element. It is commonly used for application with strict valve stem sealing requirement, such as high vacuum application and nuclear industry. Replace stuffing box in common valve with bellows or use with stuffing box can make no leakage at valve stem part to prevent leakage of radioactive material or valuable material, or maintain a high vacuum. Bellows extends and retracts with lifting of valve stem. The maximum working pressure determined by compression strength and fatigue strength of bellows.



Bellow Gate Valve

Design standard: API 600, API 602, API 603
Length of structure: ASME B16.10
Flange connecting end: ASME B16.5
Butt welding connecting end: ASME B16.25
Wall thickness: API 600/ASME B16.34
Inspection and test: API 598

Pressure and temperature rating: ASME B16.34
Product scope: 1/2" ~ 24", CLASS 150~CLASS 600
Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A, A105, LF2, , F11, F22, F51, F91, F304, F316, F304L, F316L etc.
Drive device: handle, bevel gear, electric, pneumatic, etc.



Bellow Globe Valve

Design standard: BS 1873
Length of structure: ASME B16.10 or factory standard
Flange connecting end: ASME B16.5
Butt welding connecting end: ASME B16.25
Wall thickness: API 600/ASME B16.34
Inspection and test: API 598

Pressure and temperature rating: ASME B16.34
Product scope: 1/2" ~ 16" ,CLASS 150~CLASS 1500
Main body material: WCB, LCB, WCC, WC6, WC9, CF8, CF8M, CF3, CF3M, A890 4A, A105, LF2, F11, F22, F51, F91, F304, F316, F304L, F316L etc.
Drive device: handle, bevel gear, electric, pneumatic, etc.