

# KEYSUNG METAL Manual Valves

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The best partner for value creation  
We support the innovations of customers



# 18

# KEYSUNG METAL Company Information

## ▲ Greeting

KEYSUNG METAL is leading global supplier of Onshore Offshore & Plant Valves, including Bronze & Ni-Al Bronze, Cast Steel, Alloy Steel, Stainless Steel, Monel Valves.

Since 1985, KEYSUNG METAL has earned a worldwide reputation for excellence as a manufacturer of valves for EPC, Oil & Gas, and Shipbuilding companies.

KEYSUNG METAL is a vertically integrated manufacturer with process capabilities including Casting, Forging, Machining, Stamping, Assembly and Testing.

KEYSUNG METAL has long been a primary contributor to transportation and Onshore / Offshore plant project development, and is recognized as a reliable exporter to customers in more than 35 countries including Middle East, South & East Asia, Africa, Europe and the U.S.A.

## ▲ Our History

<b>2019</b>	Registered as a Valve Supplier for NPCC (UAE EPC) Registered as a Valve Supplier for Pertamina (National Oil & Gas company of Indonesia)
<b>2018</b>	Acquired TAT Certifications : Ball Valve(3 types), Gate Valve(7 types), Globe Valve(5 types), Swing Check Valve(3 types) Change of the largest Shareholder and CEO
<b>2017</b>	Acquired TAT Certifications : Ball Valve(15 types), Gate Valve(2 types), Globe Valve(10 types), Swing Check Valve(17 types) Acquired S.I.L Certifications for Ball Valves Registered Vendor of Petrofac (UAE EPC)
<b>2016</b>	Acquired FE (Fugitive Emission) Certifications for Gate, Globe Valves Registered as a Valve Supplier for KIPIC (National Oil company of Kuwait) Present OFFSHORE Korea 2016 as a Participant Present ADIPEC (Abu-Dhabi International Petroleum Exhibition & Conference) 2016 as a Participant Acquired TAT Certifications : Ball Valve(4 types), Gate Valve(1 type) Acquired Fire Safety Test Certifications (EN ISO 10497)
<b>2012 ~2015</b>	Registered as a Valve Supplier for KOC, KNPC and ADNOC (National Oil&Gas company of Kuwait and UAE) Registered as a Valve Supplier for Petronas (National Oil & Gas company of Malaysia) Registered as a Valve Supplier for KOSPO, KOWEPO, KOMIPO, KOSEP (Korea Power Plant) Registered as a Valve Supplier for Technicas Reunidas (Spain EPC), PETROFAC (UAE EPC), Dodsall E&C (UAE EPC) Present OFFSHORE Korea 2014 as a Participant Present ADIPEC (Abu-Dhabi International Petroleum Exhibition & Conference) 2015 as a Participant
<b>2010 ~2011</b>	Registered as a Valve Supplier for HYUNDAI E&C, HYUNDAI Engineering, GS E&C, SK E&C (Korean EPC) Acquired UL Certificates for Gate, Globe, Check, Ball, Post indicator, Butterfly Valves
<b>2006 ~2009</b>	Acquired ISO 14001, OHSAS 18001, API, CE/PED Certificates Registered as a Valve Supplier for SAMSUNG Engineering, DAEWOO E&C (Korean EPC)
<b>2001 ~2005</b>	Registered as a Valve Supplier for SHI, HHI, DSME (Korean Shipbuilding & Marine Engineering company) Relocate the Head Office and Main Factory to NOKSAN National Industrial Area in BUSAN, KOREA
<b>2000</b>	Acquired ISO 9001 Certificates Acquired Class Certificates for Casting process from KR, Lloyd, DNV-GL, RINA Incorporation transition and company named KEYSUNG METAL CO., LTD Registered as a Military Supplier for Korean Ministry of National Defense
<b>1985</b>	Company establishment

## Certification

API6D-0646, API600-0085, ISO9001, OHSAS18001, ISO14001



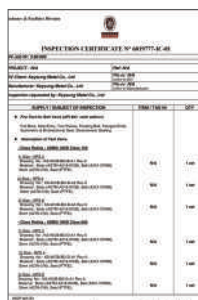
## Products - Certification



**T.A.T**  
(BALL, GATE, GLOBE, POSTINDICATOR,  
EXPANDING GATE VALVE)



**UL**  
(BALL, GATE, GLOBE, CHECK, BUTTERFLY, DUAL  
CHECK, SWING CHECK, POSTINDICATOR VALVE)



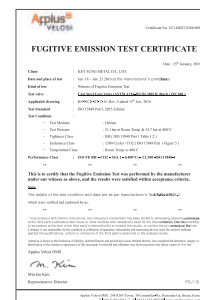
**Fire Safety Cert (BALL  
VALVE) API 6FA**



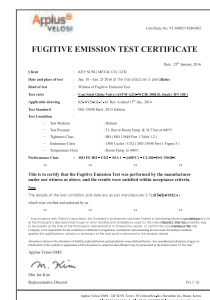
**Fire Safety Cert (BALL  
VALVE) API 607**



**Fire Safety Cert (GATE VALVE)**



**FE (GATE VALVE)**



**FE (GATE VALVE)**

## Our Product

KEYSUNG METAL is a strong Valve manufacturer in Korea. For the past 35 years, we've been running for customer satisfaction with the best quality of products. We're comprehensive Valve manufacturer with all the manufacturing process starting from pattern design, casting, machining, assembly, paint, and inspection. We gained a high reputation in worldwide by supplying our products to all business sectors in the Oil and Gas industries. We have the most UL and TAT certificates in Asia. We've been registered as a main supplier to all the Major end-user companies in the Middle East, Southeast Asia and etc. We always reward to our customer with the best result and promise to always try our best to be our customer's greatest partner.

## Body and Bonnet Materials

Valves are available in a wide range of body, bonnet & trim materials. See below common material chart as a reference.

Cast			
ASTM	Grade	UNS	Remark
A216	WCA	J02502	-
	WCB	J03002	-
	WCC	J02503	-
A351	CF3	J92700	304L
	CF3M	J92800	316L
	CF8	J92600	304
	CF8M	J92900	316
	CN7M	N08007	Alloy 20
A217	WC6	J12072	-
	WC9	J21890	-
	C5	J42045	-
	C12	J82090	-
	C12A	J84090	-
A995	1B	J93372	Duplex 1B
	2A	J93345	Duplex 2A
	4A	J92205	Duplex 2205
	5A	J93404	Duplex 2507
	6A	J93380	Duplex F55
A494	CW6MC	N26625	Alloy 625
	CU5MCuC	N08826	Alloy 825
	CW12MW	N30002	Alloy C276
B148	-	C95800	Al-Bronze
B61	-	C92200	Bronze
B62	-	C83600	Bronze

Forged			
ASTM	Grade	UNS	Remark
A105			
A182	F316	S31600	-
	F316L	S31603	-
	F304	S30400	-
	F304L	S30403	-
	F51	S31803	Duplex 2205
	F53	S32750	Duplex 2507

※ This materials are standard for KEYSUNG METAL, please contact us for other materials.

## 01 Ball Valves

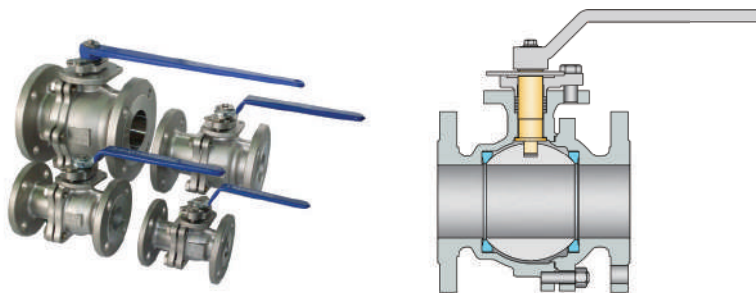
### Floating Ball Valves

#### Design Standards

- API 6D, ASME B 16.34, ISO 17292
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : -46°C to 200°C
- Size Range
  - : NPS 1/2" to 8"



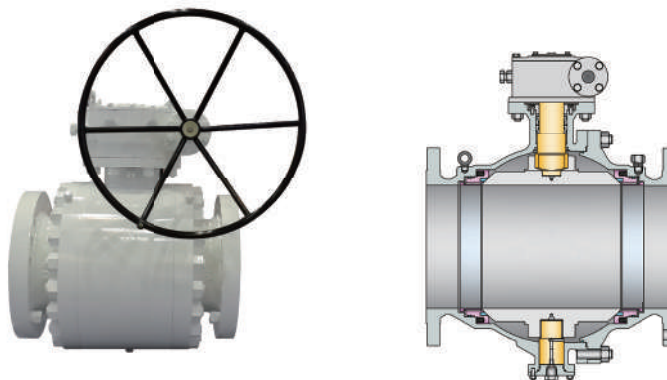
### Trunnion Mounted Ball Valves

#### Design Standards

- API 6D, ASME B 16.34, ISO 14313
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : -46°C to 200°C
- Size Range
  - : NPS 1-1/2" to 48"



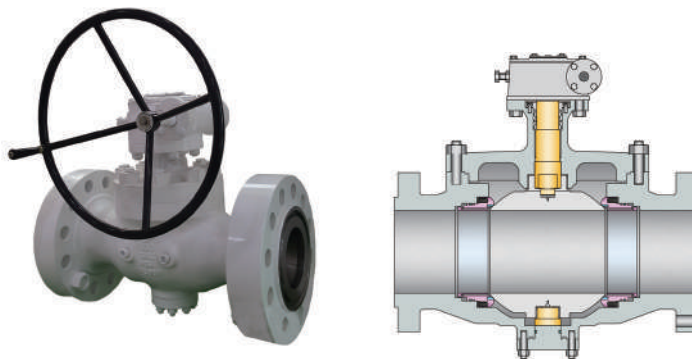
### Top Entry Ball Valves

#### Design Standards

- API 6D, ASME B 16.34
- Maker Standard

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : -46°C to 200°C
- Size Range
  - : NPS 1/2" to 24"



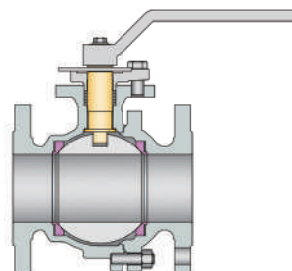
## Metal Seat Ball Valves

### Design Standards

- API 6D, ASME B 16.34, ISO 17292
- ASME B 16.10

### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : -29°C to 600°C
- Size Range
  - : NPS 1/2" to 42"



## 02 Gate Valves

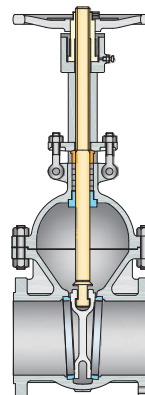
### Bolted Bonnet Type (BB)

#### Design Standards

- API 600, API 603 ASME B 16.34, ISO 10434
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 64"



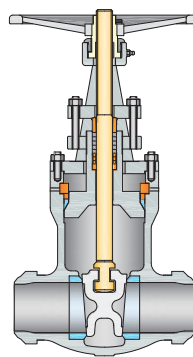
### Pressure Seal Bonnet Type (PSB)

#### Design Standards

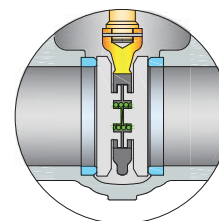
- ASME B 16.34, MSS SP-144
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 600 to 2500
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 24"



<FLEXIBLE WEDGE DISC TYPE>



<PARALLEL SLIDE DISC TYPE>

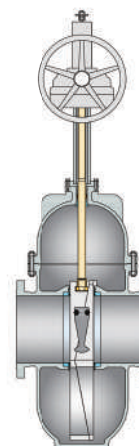
## Expanding Gate Valves

### Design Standards

- API 6D

### Production Range

- Pressure Rating  
: ASME Class 150 to 1500
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 36"



## 03 Globe Valves

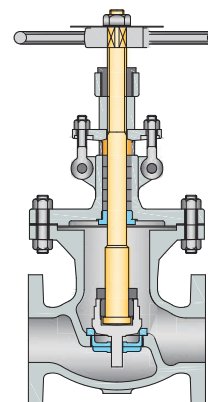
### Bolted Bonnet Type (BB)

#### Design Standards

- API 623, ASME B 16.34, BS 1837
- ASME B 16.10

#### Production Range

- Pressure Rating  
: ASME Class 150 to 2500
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 24"



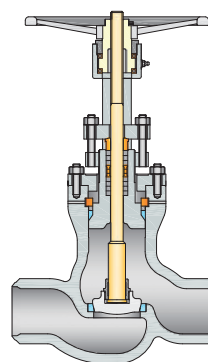
### Pressure Seal Bonnet Type (PSB)

#### Design Standards

- ASME B 16.34, MSS SP-144
- ASME B 16.10

#### Production Range

- Pressure Rating  
: ASME Class 600 to 2500
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 24"





## 04 Check Valves

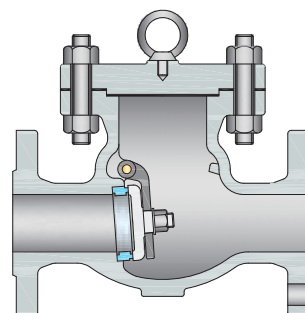
### Swing Bolted Cover Type (BC)

#### Design Standards

- API 6D, ASME B 16.34, BS 1868
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 64"



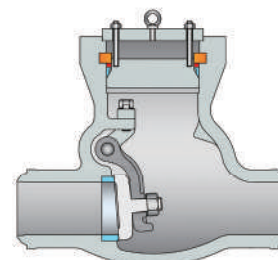
### Swing Pressure Seal Cover Type (PSC)

#### Design Standards

- ASME B 16.34, MSS SP-144
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 600 to 2500
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 24"



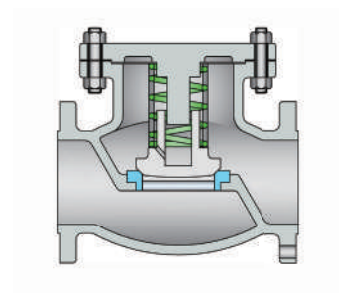
### Lift Bolted Cover Type (BC)

#### Design Standards

- ASME B 16.34
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 600
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 24"





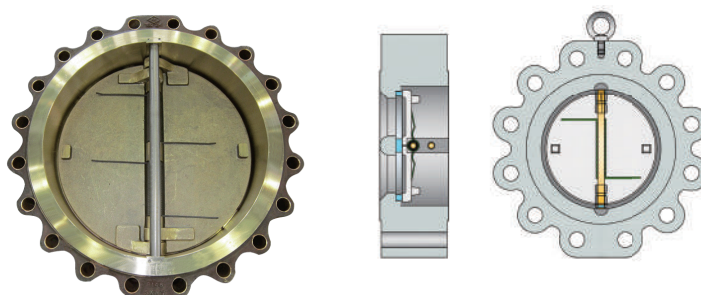
## Dual Plate Type

### Design Standards

- API 594

### Production Range

- Pressure Rating  
: ASME Class 150 to 2500
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 56"
- End Type  
: Wafer, Lug, Double Flange



## 05 Butterfly Valves

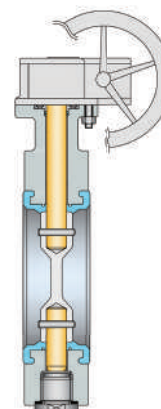
### Concentric Type

#### Design Standards

- API 609, ASME B 16.34

#### Production Range

- Pressure Rating  
: ASME Class 150 to 600
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 100"
- End Type  
: Wafer, Lug, Double Flange, Weld end



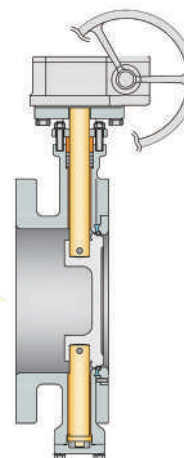
### Double Offset Type

#### Design Standards

- API 609, ASME B 16.34

#### Production Range

- Pressure Rating  
: ASME Class 150 to 600
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 100"
- End Type  
: Wafer, Lug, Double Flange, Weld end



## 06 Special Valves

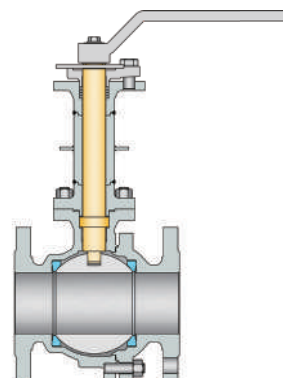
### Cryogenic Ball Valves

#### Design Standards

- API 6D, ASME B 16.34, BS 6364
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 1500
- Temperature Range
  - : Down to -196°C
- Size Range
  - : NPS 1/2" to 24"



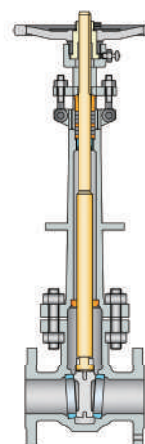
### Cryogenic Gate & Globe Valves

#### Design Standards

- BS 6364, MSS SP-134
- ASME B 16.10

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : Down to -196°C
- Size Range
  - : NPS 2" to 30"



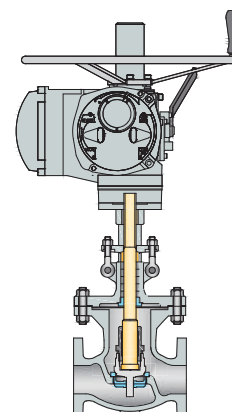
### Actuator Type Valves

#### Design Standards

- Valves : Gate, Globe, Ball, Butterfly, etc.
- Type : MOV (Motor Operated)
- POV (Pneumatic Operated)
- AOV (Air Motor Operated)

#### Production Range

- Pressure Rating
  - : ASME Class 150 to 2500
- Temperature Range
  - : Up to 500°C
- Size Range
  - : NPS 2" to 64"



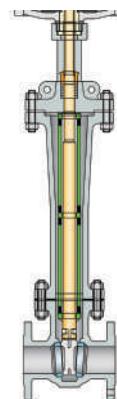
## Bellows Seal Valves

### Design Standards

- Valves : Gate, Globe
- MSS SP-117
- ASME B 16.10

### Production Range

- Pressure Rating  
: ASME Class 150 to 600
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 24"



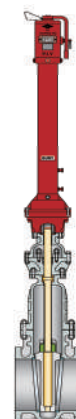
## Post Indicator Valves

### Design Standards

- API, AWWA (NRS post indicator)
- ASME B 16.10

### Production Range

- Pressure Rating  
: ASME Class 150 to 300
- Temperature Range  
: Up to 400°C
- Size Range  
: NPS 2" to 30"



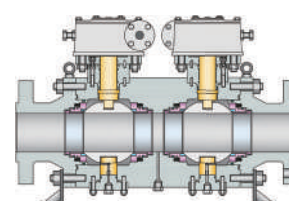
## Double Block & Bleed Ball Valves

### Design Standards

- API 6D, ASME B 16.34, ISO 14313
- Maker Standard

### Production Range

- Pressure Rating  
: ASME Class 150 to 2500
- Temperature Range  
: Up to 500°C
- Size Range  
: NPS 2" to 12"



## CUSTOMER

### End User Companies



### Foreign EPC & Shipbuilding



### Korean EPC

