



BALL VALVE PARTS MATERIALS OVERVIEW

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BODY MATERIAL

Carbon Steel

ASTM A105
ASTM A105N

ASTM A216 WCB
ASTM A216 WCC

Low Temperature Carbon Steel

ASTM A350 LF2
ASTM A350 LF3

ASTM A352 LCB/ASTM A352 LCC
ASTM A352 LC2/ASTM A352 LC3

Austenitic Stainless Steel

ASTM A351 CF8
ASTM A351 CF8M
ASTM A351 CF3
ASTM A351 CF3M
ASTM A351 CF8C
ASTM A351 CG3M

ASTM A182 F304
ASTM A182 F316
ASTM A182 F304
ASTM A182 F316L
ASTM A182 F321/ASTM A182 F347
ASTM A183 F317L

Copper Alloy

ASTM B148 C95800
ASTM B148 C95500
ASTM B150 C63200

ALUMINIUM BRONZE
ALUMINIUM BRONZE
ALUMINIUM BRONZE

Austenitic Stainless Steel Special Medium

ASTM A351 CF10
ASTM A351 CF10M
UNS 31635
ASTM A182 F304H
ASTM A182 F316H
ASTM A182 F316TI

Ferritic-Austenitic Stainless Steel

A995 Gr.4A/ UNS 31803
A995 Gr.5A/ UNS 32750
A995 Gr.6A/ UNS 32760
ASTM A182 F51
ASTM A182 F53
ASTM A182 F55

Nickel Alloy

A484 CUSMCuC
A494 CY40
A494 CW6MC
A494 M35-1
ASTM B564 - N08825 INCONEL 825
ASTM B564 - N06600 INCONEL 600
ASTM B564 - N06625 INCONEL 625
ASTM B564 - N04400 MONEL 400

Titanium

ASTM B367 GR.C2
ASTM B367 GR.C3
ASTM B381 GR.F2
ASTM B381 GR.F3

SHAFT/TRUNNION MATERIALS

ASTM A276 410/ ASTM A276 420
ASTM A479 410
ASTM A29 4140
ASTM A564 17-4PH
ASTM A182 F304

ASTM A182 F316
ASTM A182 FXM-19
ASTM A182 F321/ASTM A182 F347
ASTM B564 N07718
ASTM B564 N04400

SEAT MATERIALS

Soft Seat

VITON AED
Reinforced PTFE
Virgin PTFE
Carbon Filled PTFE
Stainless Steel Filled PTFE
Delrin (POM)

Soft Seat

PPL
PEEK
Nylon/Devlon
UHMW Polyethylene
Kel-F

Metal to Metal Seat

Ni 55
Ni 60
Co-Cr Alloy
STELLITE

SEAL MATERIALS

Elastomers

HBNR: Low Temperature & AED
FKM: Viton grades B, GF, GLT&AED
AFAS compounds
Elast-O-Lion: HNBR-985

Thermoplastic

PTFE(Virgin)
RPTFE(Carbon Graphite & Glass Fibre)
NYLON grades: LauramidR, SMXR, DevlonR
PCTFE: KEL-F
PEEK: Virgin & Carbon Filled grades
VESPEL

Static & Dynamic Seals

Lip Seal (radial & face-seal, U&O type springs)
Chevron type (PTFE, RPTFE & PEEK rings)
Graphoil Packing (Low Emission type)
Spiral Wound Gaskets (Graphite & PTFE filled)
Solid Metal Seals (T seal ring, RTJ, BX type)

BOLTS & NUTS

ASTM A193 B7 & A194 Gr. 2H
ASTM A193 B7M & A194 Gr. 2HM
ASTM A320 L7 & A194 Gr. 7 or Gr. 4

ASTM A320 L7 & A194 Gr. 7M
ASTM A320 L43 & A194 Gr. 7M
ASTM A193 B8 Cl. 2 & A194 Gr. 8

ASTM A193 B8M Cl. 2 & A194 Gr. 8M
ASTM A453 B8 Gr. 660 Cl.a & A453 Gr. 660 Cl.
UNS S31803 & UNS S31803 (DUPLEX SS)

▲ China Famous Valve Manufacture

▲ Make Pipeline Flow Control Safer and Smarter

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Ball Valve

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[Metal Sealed Ball Valve](#)
[Hanging System Ball Valve](#)
[V Type Ball Valve](#)
[Anti-Abrasive Ball Valve](#)
[Orbit Type Ball Valve](#)
[Lined Ball Valve](#)
[Oxygen Ball Valve](#)
[Cryogenic Ball Valve](#)

Butterfly Valve

[Triple Eccentric Metal Seat Butterfly Valve](#)
[Triple Offset Laminated Seat Butterfly Valve](#)
[High Performance Butterfly Valve](#)
[Double Eccentric Rubber Seat Butterfly Valve](#)
[Full Lining Butterfly Valve](#)
[Half Lining Butterfly Valve](#)
[PTFE Lining Butterfly Valve](#)
[Oxygen Butterfly Valve](#)
[Cryogenic Butterfly Valve](#)

Gate Valve

[Wedge Gate Valve](#)
[Stainless Steel Gate Valve API603](#)
[Through Conduit Gate Valve](#)
[Bellows Seal Gate Valve](#)
[Pressure Bonnet Gate Valve](#)
[Non Rising Stem Gate Valve](#)
[Knife Gate Valve](#)
[PTFE Lining Gate Valve](#)
[Cryogenic Gate Valve](#)

Globe Valve

[Roller Bonnet Globe Valve](#)
[Pressure Bonnet Globe Valve](#)
[Stop Valve](#)
[Angle Globe Valve](#)
[Bellows Stop Valve](#)
[Non Rising Stem Gate Valve](#)
[Oxygen Globe Valve](#)
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Check Valve

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[Dual Plate Check Valve](#)
[PTFE Lining Check Valve](#)
[Oxygen Swing Check Valve](#)
[Axial Check Valve](#)
[Silent Duty Non-Return Valve](#)
[Silent Lift Check Valve](#)
[Butterfly Type Check Valve](#)
[Hammer Check Valve](#)
[Tilting Check Valve](#)

Forged Valve

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[Forged Swing Check Valve](#)
[Forged Lift Check Valve](#)
[Forged Ball Valve](#)
Control Valve
[Single Seat Control Valve](#)
[Double Seat Control Valve](#)
Strainer
[Y Strainer](#)
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