



پترو تجهیز سپاهان

Office & Factory

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Forged Steel Ball Valves

Valve Type	Size	Class	Features	Specifications
Floating Ball Type	1/2"	150	Full & Reduce Bore Soft Seat, Split Body FLG, BW, SW, SCREW Connection Wrench Operation Anti-Blow Out Stem, Anti-Static Design Fire Safe Construction (Acc. to NACE MR 0175 & 0103 as Request)	API 6D ISO 17292 ASME B 16.34
	to 2"			
Trunnion Mounted Type	1/2"	2500	Full & Reduce Bore Soft Seat, Metal to Metal & PMSS Split Body & Fully Welded Body FLG, BW Connection Wrench, Gearbox & Actuator Operation Anti-Blow Out Stem, Anti-Static Design Double Block & Bleed (DBB) Fire Safe Construction (Acc. to NACE MR 0175 & 0103 as Request)	
	to 40"			

Cast Steel Ball Valves

Valve Type	Size	Class	Features	Specifications
Floating Ball Type	2"	150	Full & Reduce Bore Soft Seat, Split Body FLG & BW Connection Wrench, Gearbox & Actuator Operation Anti Blow Out Stem, Anti Static Design Fire Safe Construction (Acc. to NACE MR 0175 & 0103 as Request)	API 6D ISO 17292 ASME B 16.34
	to 6"	& 300		
Trunnion Mounted Type	2"	150	Full & Reduce Bore Soft Seat, Metal to Metal & PMSS Split Body & Fully Welded Body Side & Top Entry FLG & BW Connection Wrench, Gearbox & Actuator Operation Anti-Blow Out Stem, Anti-Static Design Fire Safe Construction (Acc. to NACE MR 0175-0103 as Request)	
	to 40"	to 2500		

Forged Steel Valves (Gate , Globe , Check & Needle)

Valve Type	Size	Class	Features	Specifications
Gate	1/4" to 2 1/2"	150	Bolted & Welded Bonnet Hand wheel Operation Outside Screw & Yoke, Stem Rising FLG, BW, SCREW & SW Connection Replaceable Packing Under Pressure (Acc. to NACE MR 0175 & 0103 as Request)	API 602 ISO 15761 ASME B16.34
Globe		to 2500	Bolted & Welded Bonnet Hand wheel Operation Outside Screw & Yoke, Stem Rising FLG, BW, SCREW & SW Connection (Acc. to NACE MR 0175 & 0103 as Request)	BS 1873 ISO 15761 ASME B16.34
Check			Bolted & Welded Cover Piston, Ball, Swing, Single & Dual Plate Type FLG, BW, SCREW & SW Connection (Acc. to NACE MR 0175 & 0103 as Request)	BS 1868 ISO 15761 ASME B16.34
Needle	Up to 1"	Up to 10,000	Angle & Straight Pattern (Acc. to NACE MR 0175 & 0103 as Request)	M.S



Cast Steel Valves (Gate, Globe & Check)

Valve Type	Size	Class	Features	Specifications
Gate	2" to 40"	150	Bolted & Pressure Seal Bonnet, Hand wheel, Gearbox & Actuator Operation Outside Screw & Yoke, Stem Rising FLG & BW Connection Replaceable Packing Under Pressure (Acc. to NACE MR 0175 & 0103 as Request)	API 600 BS 1414 ASME B16.34
Globe		to 1500	Bolted & Pressure Seal Bonnet, Hand wheel, Gearbox & Actuator Operation Outside Screw & Yoke, Stem Rising FLG & BW Connection (Acc. to NACE MR 0175 & 0103 as Request)	BS 1873 ASME B16.34
Check			Bolted & Pressure Seal Cover, Swing, Single & Dual Plate Type FLG, BW & Wafer Connection (Acc. to NACE MR 0175 & 0103 as Request)	BS 1868 API 594 ASME B16.34



Wellhead Valves

Valve Type	Size	Class	Body	Features	
Slab Gate Valve	2,1/16"			PR1, PR2	API 6A
Ball Valve	3,1/8"	API 2000 PSI	36K-45K-60K-75K	PSL1, PSL2, PSL3	
	4,1/16"	API 3000 PSI	AISI 4130 AISI 4140	Material Class: AA-BB-CC-DD-EE-FF	
Globe Valve	7,1/16"	API 5000 PSI		Temperature Class: K-L-N-P-R-S-T-U-V-X-Y	
Check Valve	9"				



API 6A Product Specification Levels Requirements

	PSL-1	PSL-2	PSL-3
Operation	One tensile test is Required to qualify lead lot	Slightly stringent requirements than PSL-1	Same as PSL-2
Tensile Testing	Required on selected wetted parts only for temperature K and L.	Required on all wetted parts for temperature K,L and P stringent rest criteria PSL-1	Required for all Temperatures otherwise same as PSL-2
Impact Testing	One hardness punch each on bonnet and stem sampling permitted	Same as PSL-1, but each part must be tested	Same as PSL-2, but additional punch on bonnet face
Hardness Testing	No requirement	Mag particle on all surface, can use wet or dry mag method	Same as PSL-2 but all surface must be tested, must use mag method
Service NDE	No requirement	No requirement	100% Volumetric testing by radiography or ultrasonic testing required, all wetted parts
Volumetric NDE Serialization	No requirement	No requirement	Each wetted part must carry a unique serialization number
Traceability	No requirement	Traceability to job lot required	Part must be traceable to specific heat and heat treat lot
Chemical Analysis	No requirement	Verification of material chemistry Required	Same as PSL-1, but extended Hold periods on hydrotest
Functional Hydro testing	Basic Function/ Hydro tests Required	Same as PSL-1	Same as PSL-1, but extended hold periods on hydrotest

API 6A Product Specification Levels

Material Class		Minimum Material Requirements	
		Body, Bonnet, End Outlet Connection	Pressure-Controlling Parts, Stems and Mandrel Hangers
AA	General Service	Carbon or Low-Alloy Steel	Carbon or Low-Alloy Steel
BB	General Service	Carbon or Low-Alloy Steel	Stainless Steel
CC	General Service	Stainless Steel	Stainless Steel
DD	Sour Service ¹	Carbon or Low-Alloy Steel ²	Carbon or Low-Alloy Steel ²
EE	Sour Service ¹	Carbon or Low-Alloy Steel ¹	Stainless Steel ¹
FF	Sour Service ¹	Stainless Steel	Stainless Steel ²
HH	Sour Service ¹	CARs ^{2,3}	CARs ^{2,3}

- As defined by ISO 15156 (all parts) (NACE MR 0175)
- In Accordance with ISO 15156 (NACE MR 0175)
- Corrosion-Resistant Alloy (CRA) (on retained fluid-wetted surface only)

Valves Services

- In addition to the production of valves, ancillary services is done in this factory
- The most important ones are
- Reverse Engineering special equipment, such as the construction of a four-way valve & condensate discharge Counter device
- Testing and acceptance types of valves
- Long Stem of the valves in place without interruption Gas
- Switch statue from handwheel to gearbox
- Repair and coating (polyurethane & Petrolation) types of valves



ISO & Fire Safe Certificate



Vendor List Certificate

