

Coretech



Master Valve API 602 Forged Steel Valve



Coretech Flow America Inc

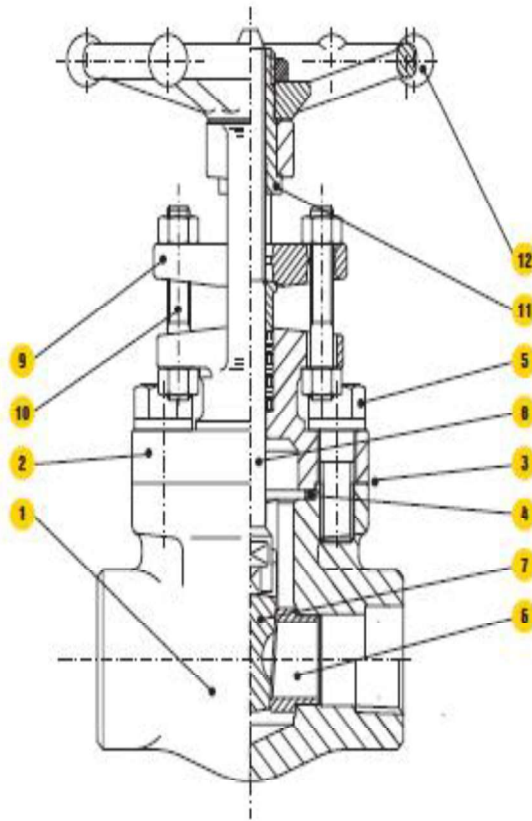
Quality Controls

- ⇒ All manufacturing is conducted under ISO 9001 certified quality management system
- ⇒ Products are stringently manufactured in accordance with applicable industry standards and to specific Master Valve Design Specifications
- ⇒ Designs are compliant with ASME B16.34, API 608, API 600, API 6D, API 6A and MSS-SP110
- ⇒ Pressure testing is conducted to API 6D, API 6A, API 598, MSS SP-110 as applicable
- ⇒ Fire test certifications to API 607 and API 6FA as applicable
- ⇒ All MV valves certified to NACE meets the predefined material requirements of NACE MR-0175/ISO 15156 or NACE MR-0103
- ⇒ Material Test Reports per EN 10204-1991 3.1.B & EN10204 3.1 available for each valve



Gate Valve

Forged steel, outside screw and yoke (OS&Y), rising stem, non-rising stem handwheel



<u>Item</u>	<u>Part</u>	<u>Description</u>
1	Body	Forged steel, designed to the basic dimensional requirements of specs such as API 602 and ASME B16.34
2	Bonnet	Forged steel with integral backseat and stuffing box, dimensions per API 602
3	Body-bonnet join	Either bolted bonnet or threaded and seal welded type
4	Gasket	Controlled compressed spiral wound type gasket
5	Bonnet bolting	Alloy steel per API 602 & ASME B16.34
6	Seat rings	Steel and seating surfaces ground and lapped
7	Wedge	Forged or cast steel
8	Stem	Forged steel
9	Gland & Flange	Self aligning design
10	Gland bolts/nuts	Steel/stainless steel gland bolt and nut assembly
11	Yoke sleeve	Forged stainless steel resist to wear
12	Hand wheel	Forged carbon steel



Standards of API 602 Forged Steel Gate Valves

- Design - API 602/ASME B16.34
- Face to face dimension - ASME B 16.10
- Socket welding end - ASME B 16.11
- Threaded end - ASME B 1.20.1
- Butt welding end - ASME B 16.25
- Flange end - ASME B 16.5
- Inspection - API 598



Features of API 602 Forged Steel Gate Valves

- Full port and conventional port optional
- Outside screw and yoke (OS & Y)
- Solid wedge (disc)
- Renewable seat ring
- Non-rising handwheel
- Bolted bonnet; welded bonnet or pressure seal bonnet
- Integral backseat
- Two piece self aligning packing gland

Pressure Rating		Connection Between Body & Bonnet		
Mpa	Class	Bolted Bonnet	Welded Bonnet	Pressure Seal
1.6~10.0	150~600	Yes	Yes	
14.0	800	Yes	Yes	
16.0	900	Yes	Yes	Yes
26.0	1500	Yes	Yes	Yes
42.0	2500		Yes	Yes

Range of API 602 Forged Steel Gate Valve

- Body material– carbon steel/stainless steel/alloy steel (forged steel such as A105N, LF2,F316,F11,F51, F91, F347 etc)
- Trim: Per API 600 trims
- End Connection - Flange/Socket Weld/Thread/Butt Weld
- Pressure Rating - Class 150, 300, 600, 800, 900, 1500, 2500
- Size - 1/2"-2"

How to Order

Example: **010FGA-S8-8-A105N-WR**. This figure number represents a 1" forged gate valve, socket weld end, 800# class, trim #8 410/stellite, body A105N, welded bonnet and reduced port

Size	Valve Type	End Connection	Pressure Class
<p>005 = 0.5"</p> <p>007 = 0.75"</p> <p>010 = 1"</p> <p>015 = 1.5"</p> <p>020 = 2"</p>	<p>FGA = Forge gate</p> <p>FGL = Forge globe</p> <p>FSC = Forge swing check</p> <p>FPC = Forge Piston check</p> <p>FYG = Forge Y-globe</p>	<p>1 = Raised face</p> <p>2 = Ring type joint</p> <p>3 = Butt weld</p> <p>X = Socket X THD</p> <p>S = Socket weld</p> <p>T = Threaded end</p> <p>F = Flat face</p>	<p>1 = 150#</p> <p>3 = 300#</p> <p>6 = 600#</p> <p>8 = 800#</p> <p>9 = 900#</p> <p>A = 1500#</p> <p>B = 2500#</p>

Trim	Body/Bonnet	Bonnet Type	Port
<p>1 = 410</p> <p>2 = 304</p> <p>5 = Hardfaced</p> <p>8 = 410/hardfaced</p> <p>9 = Monel</p> <p>10 = 316</p> <p>11 = Monel/hardfaced</p> <p>12 = 316/hardfaced</p> <p>13 = Alloy 20</p> <p>14 = Alloy 20/hardfaced</p> <p>16 = 316/hardfaced</p> <p>S = Special</p>	<p>A105N</p> <p>LF2</p> <p>F5</p> <p>F9</p> <p>F11</p> <p>F22</p> <p>F51</p> <p>F91</p> <p>F316(L/H)</p> <p>F304 (L/H)</p> <p>F317L</p> <p>F321</p> <p>F347</p> <p>Monel</p> <p>Hastelloy</p> <p>Inconel</p> <p>Alloy 20</p>	<p>B = Bolted</p> <p>W = Welded</p> <p>E = Extended</p> <p>P = Pressure seal</p>	<p>R = Reduced</p> <p>F = Full</p>



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