Master Valve USA

API 602 Forged Steel Valve

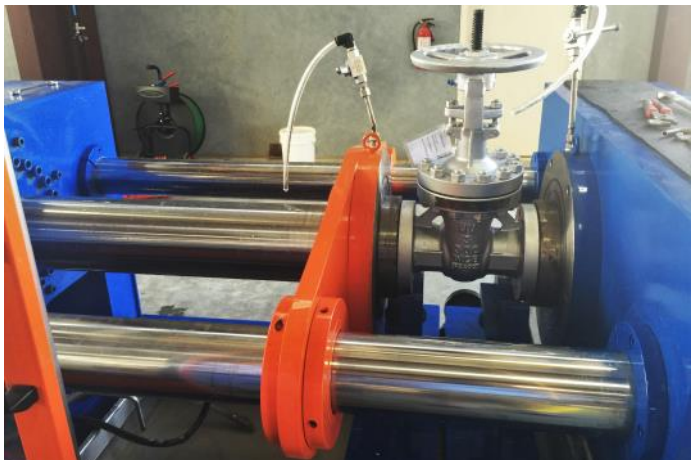
MasterValve

Tough Ball Valve for Toughest Flow

www.MasterValveUSA.com

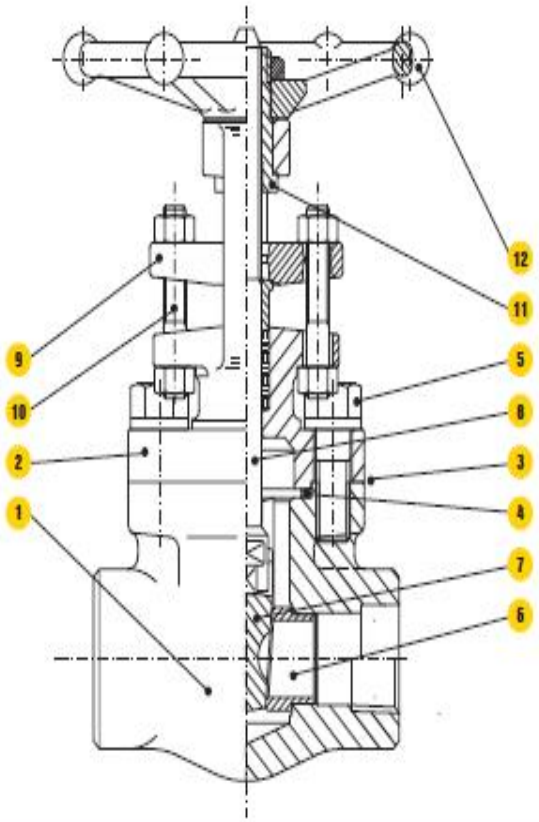
Quality Controls

- ⇒ **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



Item	Part	Description
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

005 = 0.5"

007 = 0.75"

010 = 1"

015 = 1.5"

020 = 2"

Valve Type

FGA = Forge gate

FGL = Forge globe

FSC = Forge swing check

FPC = Forge Piston check

FYG = Forge Y-globe

End Connection

1 = Raised face

2 = Ring type joint

3 = Butt weld

X = Socket X THD

S = Socket weld

T = Threaded end

F = Flat face

Pressure Class

1 = 150#

3 = 300#

6 = 600#

8 = 800#

9 = 900#

A = 1500#

B = 2500#

Trim

1 = 410

2 = 304

5 = Hardfaced

8 = 410/hardfaced

9 = Monel

10 = 316

11 = Monel/hardfaced

12 = 316/hardfaced

13 = Alloy 20

14 = Alloy 20/hardfaced

16 = 316/hardfaced

Body/Bonnet

A105N

LF2

F5

F9

F11

F22

F51

F91

F316(L/H)

F304 (L/H)

F317L

F321

F347

Monel

Hastelloy

Inconel

Alloy 20

Bonnet Type

B = Bolted

W = Welded

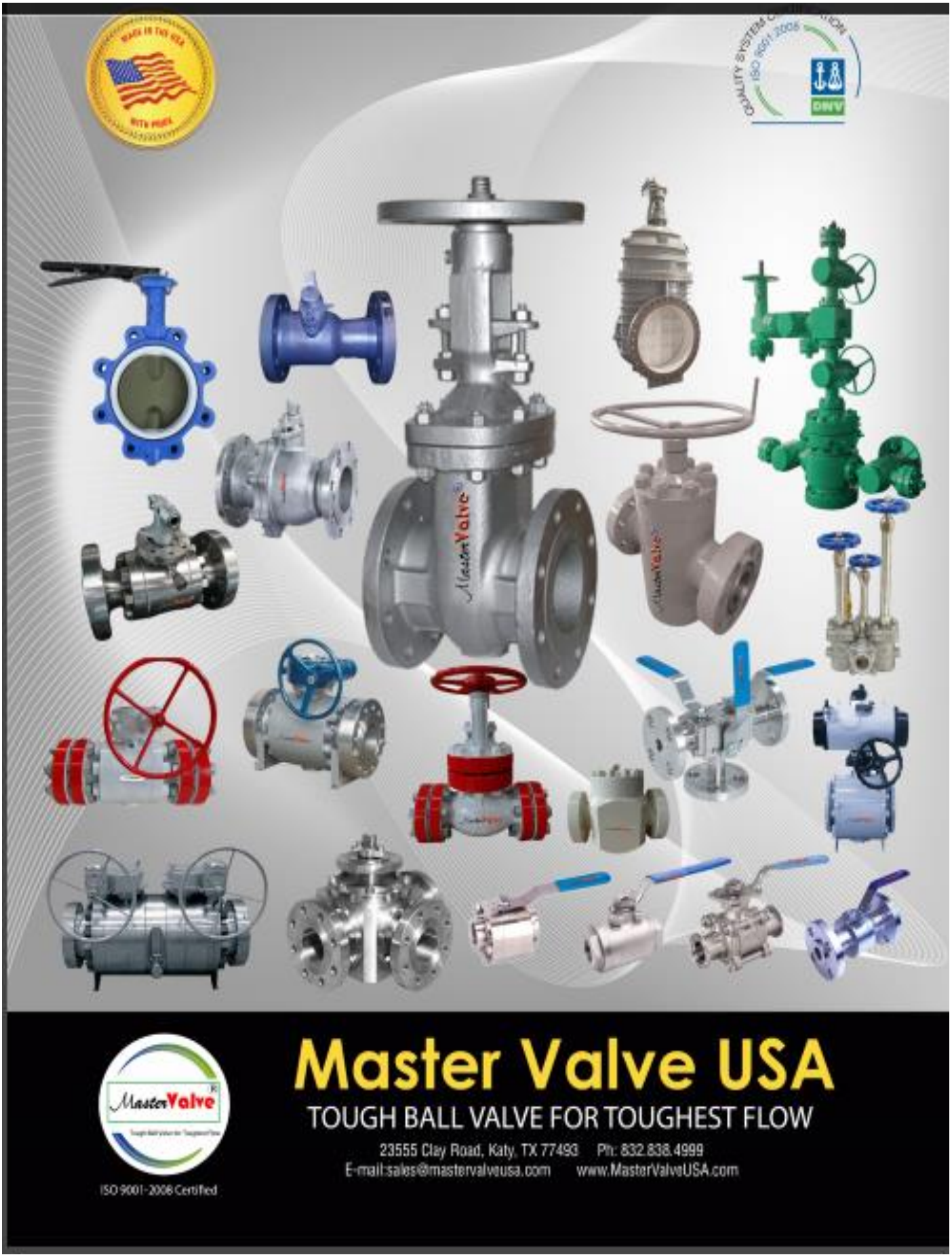
E = Extended

P = Pressure seal

Port

R = Reduced

F = Full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ISO 9001-2008 Certified