

**CLASS
800**

RP&C FORGED STEEL GLOBE VALVES

C80D

NPT ENDS SIZES 1/4" THRU 2"

C81D

SOCKET WELD ENDS

- ASTM A182 Gr. F5
- **WORKING PRESSURE (NON-SHOCK)**
600 PSIG @ 1615° F. Steam-Oil
800 PSIG @ 1355° F. Steam-Oil
2000 PSIG @ -20° To 100° F.

K80D

NPT ENDS SIZES 1/4" THRU 2"

K81D

SOCKET WELD ENDS

- ASTM A182 Gr. F22 Cl. 3
- **WORKING PRESSURE (NON-SHOCK)**
600 PSIG @ 1615° F. Steam-Oil
800 PSIG @ 1355° F. Steam-Oil
2000 PSIG @ -20° To 100° F.

- **STANDARD PORT**
- **OS&Y – BOLTED BONNET**
- **CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:**

API
API 598 API 602
ASME/ANSI

B1.20.1 B16.11 B16.34 B31.1 B31.3

NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

- **MATERIALS OF CONSTRUCTION**
D TRIM (13 Cr/HF) STANDARD (See Page 8 for optional trims)

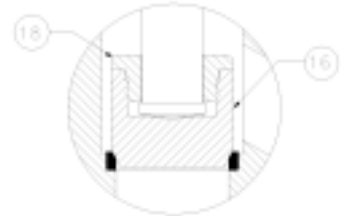
No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	410 Stainless Steel	A582	
5	Stem	410 Stainless Steel	A276	
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Graphite		Grafoil® (241 or equal)
11b	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet Bolts	Alloy Steel	A193	Grade B16
13	Bonnet	Chrome Moly	A182	Grade F5/F22
14	* Gasket	316 SS/Grafoil®		Spiral Wound
15	Seat	Cobalt-Chromium Super Alloy		CoCr-A
16	Disc	420 Stainless Steel	A582	Heat Treated
17	Body	Chrome Moly	A182	Grade F5/F22
18	Disc Nut	416 Stainless Steel	A582	

Operating Nut and Stem thread Lubricated

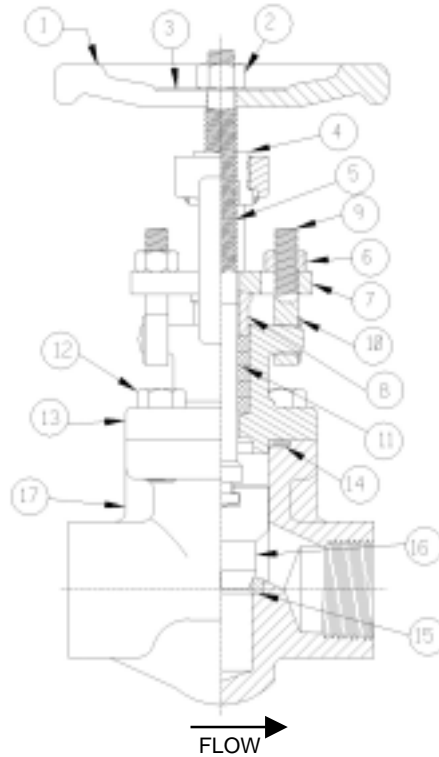
*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.

DIMENSIONAL SPECIFICATIONS				NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.				
Size	Handwheel Dia.	End To End	Center to Top(Open)	Port Dia.	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	4	3	6-1/4	9/32	.555	.375	4	2.3
3/8	4	3	6-1/4	25/64	.690	.375	4	5.7
1/2	4	3	6-1/4	25/64	.855	.375	4	5.1
3/4	4	3-1/2	6-1/2	1/2	1.065	.500	4-1/2	9.3
1	4-1/2	4-1/8	8-1/2	3/4	1.330	.500	6-1/2	24.8
1-1/4	5-1/2	4-3/4	9-1/2	1-3/16	1.675	.500	13	67.8
1-1/2	5-1/2	4-3/4	9-1/2	1-3/16	1.915	.500	13	70.9
2	6-5/8	5-1/4	11-1/4	1-15/32	2.406	.625	18	91.6



Disc Design 1 1/4" Thru 2"



RP&C VALVE

FLANGED

RP&C FORGED STEEL GLOBE VALVES

- F180D** CLASS 150 FLANGED
- F380D** CLASS 300 FLANGED
- F680D** CLASS 600 FLANGED

- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N, LOW CARBON (.25 MAX.), NORMALIZED
- STANDARD PORT
- OS&Y – BOLTED BONNET
- WORKING PRESSURE (NON-SHOCK)

CLASS 150

150 PSIG @ 576° F. Steam-Oil
285 PSIG @ -20° To 100° F.

CLASS 300

300 PSIG @ 839° F. Steam-Oil
740 PSIG @ -20° To 100° F.

CLASS 600

600 PSIG @ 576° F. Steam-Oil
1480 PSIG @ -20° To 100° F.

- CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:

API

API 598 API 602

ASME/ANSI

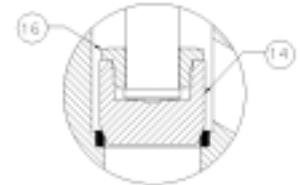
B1.20.1 B16.11 B16.34 B31.1 B31.3

NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

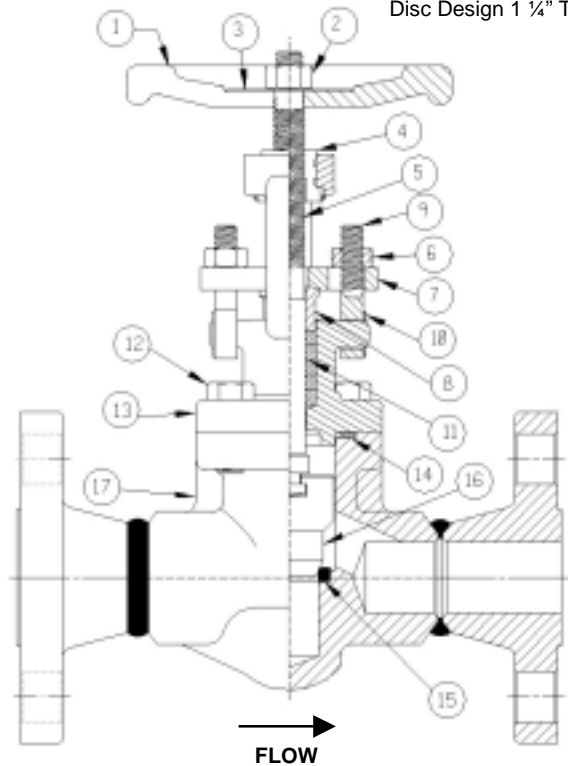
- MATERIALS OF CONSTRUCTION

D TRIM (13Cr/HF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	Stainless Steel	A276	Type 410
5	Stem	Stainless Steel	A276	Type 410
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Graphite		Grafoil® (241 or equal)
11b	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet Bolts	Alloy Steel	A193	Grade B7
13	Bonnet	Forged Steel, Normalized	A015N	Low Carbon
14	* Gasket	316 SS/Grafoil®		Spiral Wound
15	Seat	Cobalt-Chromium Super Alloy		CoCr-A
16	Disc	420 Stainless Steel	A582	Heat Treated
17	Body	Forged Steel, Normalized	A105N	Low Carbon
18	Disc Nut	416 Stainless Steel	A582	



Disc Design 1 1/4" Thru 2"



Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.

DIMENSIONAL SPECIFICATIONS					NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.						
Size	Handwheel Dia.	Face To Face			Center to Top(Open)	Port Dia.	Approximate Weight			Typical Cv Factors	
		150	300	600			150	300	600		
1/2	3-7/8	4-1/4	6	6-1/2	6-3/8	3/8	6-3/4	7	8	2.1	
3/4	3-7/8	4-5/8	7	7-1/2	6-5/8	1/2	7-1/2	10	11	3.1	
1	5-1/2	5	8	8-1/2	8-1/4	3/4	11	14	15	7.0	
1 1/2	5-1/2	6-1/2	9	9-1/2	9-1/4	1-1/4	19	24-1/2	26	18.1	
2	6-1/2	8	10-1/2	11-1/2	11	1-1/2	30	38	40	25.2	

RP&C VALVE

FLANGED

RP&C FORGED STEEL GLOBE VALVES

F180TF

CLASS 150 FLANGED

F380TF

CLASS 300 FLANGED

F680TF

CLASS 600 FLANGED

SIZES 1/4" THRU 2"

(CHLORINE INSTITUTE RECOMMENDS FLANGED ENDS FOR SIZES OVER 1-1/2" NPS)

FOR CHLORINE SERVICE

- FORGED STEEL
- ASTM A105, LOW CARBON (.25 MAX.), NORMALIZED
- STANDARD PORT
- OS&Y – BOLTED BONNET
- WORKING PRESSURE (NON-SHOCK)
300 PSIG @ -20° To 300° F.
(Class 150 is 230 PSIG @ -20° To 300° F.)
- MAX. TEMPERATURE ALLOWABLE FOR CHLORINE SERVICE IS 300°F.
- CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:

API

API 598 API 602

ASME/ANSI

B1.20.1 B16.11 B16.34 B31.1 B31.3

• MATERIALS OF CONSTRUCTION

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	410 Stainless Steel	A582	
5	Stem	Hastelloy "C"	A276	
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Teflon®		Chevron Style
12	Bonnet Bolts	Alloy Steel	A193	Grade B7
13	Bonnet	Forged Steel, Normalized	A015N	Low Carbon
14	* Gasket	Monel/Teflon®		Spiral Wound
15	Seat	Monel		Integral
16	Disc	Monel/Teflon® Insert	B164	Cl. B
17	Body	Forged Steel, Normalized	A105N	Low Carbon
18	Disc Nut	Monel	B164	Cl. B

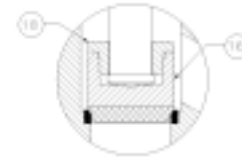
Operating Nut and Stem thread Lubricated

* Recommended Spare Parts

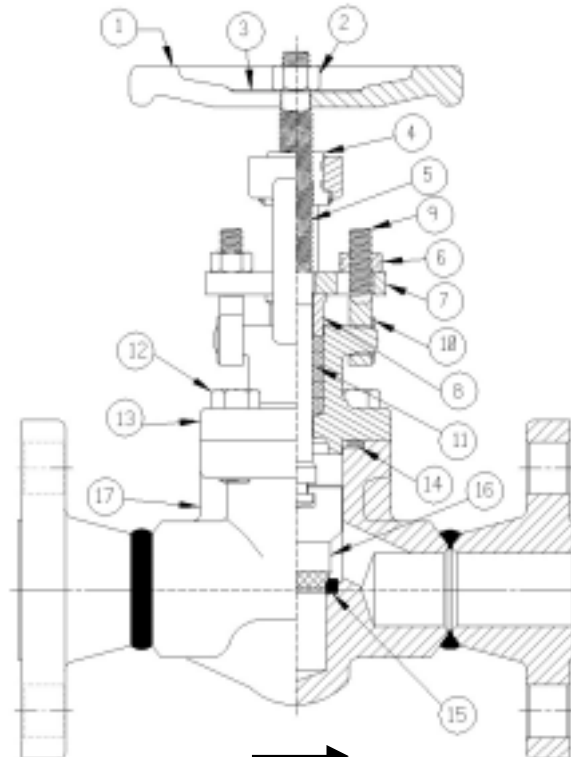
Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.

This valve is designed to meet the service requirements of water free chlorine service.

The highest quality trim material is used assure trouble free operation in the paper mill and refinery industry. The body is equipped with an integral monel seat. The disc holder is monel with a TFE disc. The disc holder is designed to incorporate a metal-metal seal as a back-up for the TFE disc. TFE filled, monel spiral gasket and TFE, chevron packing are used for added sealing assurance.



Disc Design 1 1/4" Thru 2"



→ FLOW

MINIMUM QUANTITIES MAY BE REQUIRED

DIMENSIONAL SPECIFICATIONS

NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.

Size	Handwheel Dia.	Face To Face			Center to Top(Open)	Port Dia.	Approximate Weight			Typical Cv Factors
		150	300	600			150	300	600	
1/2	3-7/8	4-1/4	6	6-1/2	6-3/8	3/8	6-3/4	7	8	2.1
3/4	3-7/8	4-5/8	7	7-1/2	6-5/8	1/2	7-1/2	10	11	3.1
1	5-1/2	5	8	8-1/2	8-1/4	3/4	11	14	15	7.0
1 1/2	5-1/2	6-1/2	9	9-1/2	9-1/4	1-1/4	19	24-1/2	26	18.1
2	6-1/2	8	10-1/2	11-1/2	11	1-1/2	30	38	40	25.2

RP&C VALVE

RP&C VALVES – CLASS 1500

**CLASS
1500**

F580E NPT ENDS

F581E SOCKET WELD ENDS

SIZES 1/2" THRU 2"

- FORGED STEEL GLOBE VALVE
 - ASTM A105N LOW CARBON (.25 MAX.), NORMALIZED
 - STANDARD PORT
 - OS&Y – BOLTED BONNET
 - WORKING PRESSURE (NON-SHOCK)
 - 860 PSIG @ 900° F. Steam-Oil
 - 1340 PSIG @ 850° F. Steam-Oil
 - 3705 PSIG @ -20° To 100° F.
 - CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:
 - API
 - API 591 API 598 API 602
 - ASME/ANSI
 - B1.20.1 B16.11 B16.34 B31.1 B31.3
- NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

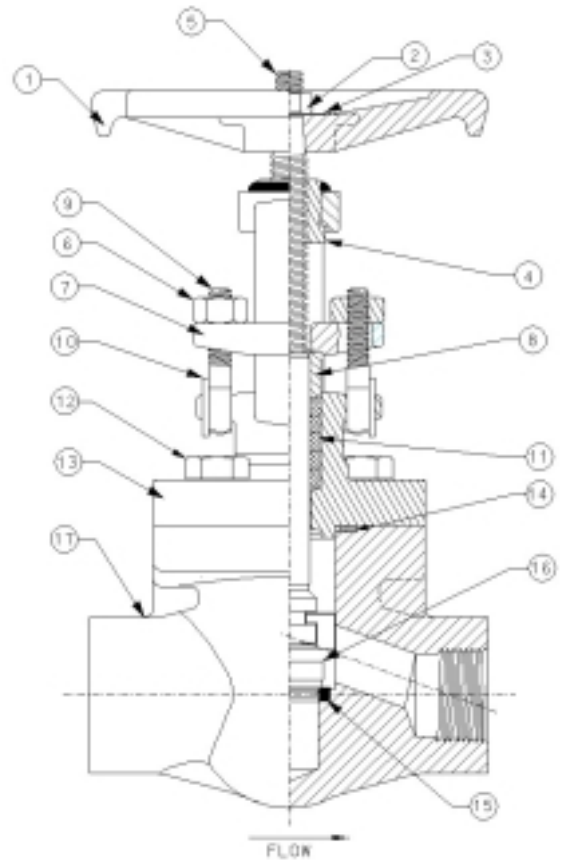
- MATERIALS OF CONSTRUCTION
E TRIM (13 Cr/FHF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	416 Stainless Steel	A582	
5	Stem	416 Stainless Steel	A582	
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Plate	Forged Carbon Steel	A105	
8	Gland	Carbon Steel	B484	Gr. 2, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Stainless Steel		300 Series
11	* Packing	Graphite		Grafoil® (241 or equal)
11a	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet Bolts	Alloy Steel	A193	Grade B7
13	Bonnet	Forged Steel, Normalized	A015N	Low Carbon
14	* Gasket	316 SS/Grafoil®		Spiral Wound
15	Seat	Cobalt-Chromium Super Alloy		CoCr-A
16	Disc	Cobalt-Chromium Super Alloy		CoCr-A
17	Body	Forged Steel, Normalized	A105N	Low Carbon

Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.



DIMENSIONAL SPECIFICATIONS				NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.				
Size	Handwheel Dia.	End To End	Center to Top(Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/2	4-1/2	4	8-1/4	25/64	.855	.375	7-1/4	2.1
3/4	4-1/2	4	8-1/4	1/2	1.065	.500	8-1/4	3.1
1	5-1/2	5-1/2	9	3/4	1.330	.500	13-1/4	7.0
1-1/2	6-5/8	6-1/2	10-5/8	1-3/16	1.915	.500	24-3/4	18.1
2	8-1/4	7	12-1/4	1-15/32	2.406	.625	39-1/2	25.2

RP&C VALVE

RP&C FORGED STEEL GLOBE VALVES

**CLASS
800**

F80D NPT ENDS SIZES 1/4" THRU 2"
F81D SOCKET WELD ENDS

- FORGED STEEL
- ASTM A105, LOW CARBON (.25 MAX.), NORMALIZED
- STANDARD PORT
- OS&Y – BOLTED BONNET
- WORKING PRESSURE (NON-SHOCK)
 - 460 PSIG @ 900° F. Steam-Oil
 - 715 PSIG @ 850° F. Steam-Oil
 - 1975 PSIG @ -20° To 100° F.

- CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:

API
 API 598 API 602
 ASME/ANSI

B1.20.1 B16.11 B16.34 B31.1 B31.3

NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

- MATERIALS OF CONSTRUCTION

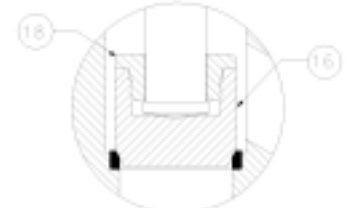
D TRIM (13 Cr/HF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	Stainless Steel	A276	Type 410
5	Stem	Stainless Steel	A276	Type 410
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Graphite		Grafoil® (241 or equal)
11b	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet Bolts	Alloy Steel	A193	Grade B7
13	Bonnet	Forged Steel, Normalized	A015N	Low Carbon
14	* Gasket	316 SS/Grafoil®		Spiral Wound
15	Seat	Cobalt-Chromium Super Alloy		CoCr-A
16	Disc	420 Stainless Steel	A582	Heat Treated
17	Body	Forged Steel, Normalized	A105N	Low Carbon
18	Disc Nut	416 Stainless Steel	A582	

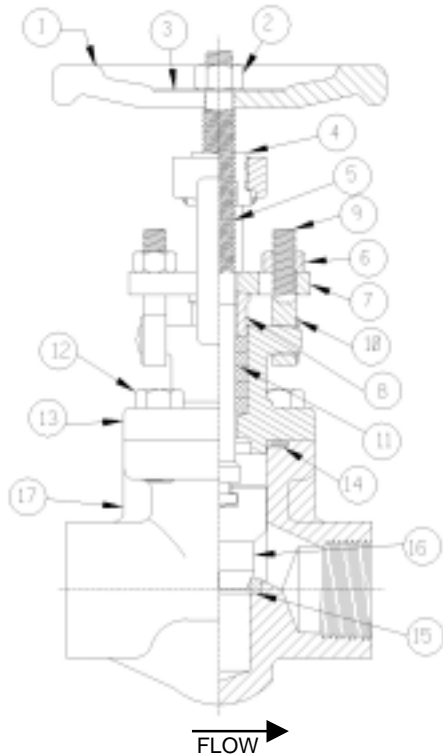
Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.



Disc Design 1 1/4" Thru 2"



DIMENSIONAL SPECIFICATIONS				NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.				
Size	Handwheel Dia.	End To End	Center to Top (Open)	Port Dia.	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	3-7/8	3	6-3/8	9/32	.555	.375	4	1.1
3/8	3-7/8	3	6-3/8	5/16	.690	.375	4	1.6
1/2	3-7/8	3	6-3/8	3/8	.855	.375	4	2.1
3/4	3-7/8	3-1/2	6-5/8	1/2	1.065	.500	4-1/2	3.1
1	5-1/2	4-3/8	8-1/4	3/4	1.330	.500	7	7.0
1-1/4	5-1/2	6	9-1/4	1	1.675	.500	14	15.4
1-1/2	5-1/2	6	9-1/4	1-1/4	1.915	.500	13-1/2	18.1
2	6-1/2	7	11	1-1/2	2.406	.625	19	25.2

RP&C VALVE

**CLASS
1500**

RP&C VALVES – CLASS 1500

FWB580E NPT ENDS

FWB581E SOCKET WELD ENDS

SIZES 1/2" THRU 2"

- FORGED STEEL GLOBE VALVE
 - ASTM A105N LOW CARBON (.25 MAX.), NORMALIZED
 - STANDARD PORT
 - OS&Y – WELDED BONNET
 - WORKING PRESSURE (NON-SHOCK)
 - 860 PSIG @ 900° F. Steam-Oil
 - 1340 PSIG @ 850° F. Steam-Oil
 - 3705 PSIG @ -20° To 100° F.
 - CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:
 - API
 - API 591 API 598 API 602
 - ASME/ANSI
 - B1.20.1 B16.11 B16.34 B31.1 B31.3
- NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

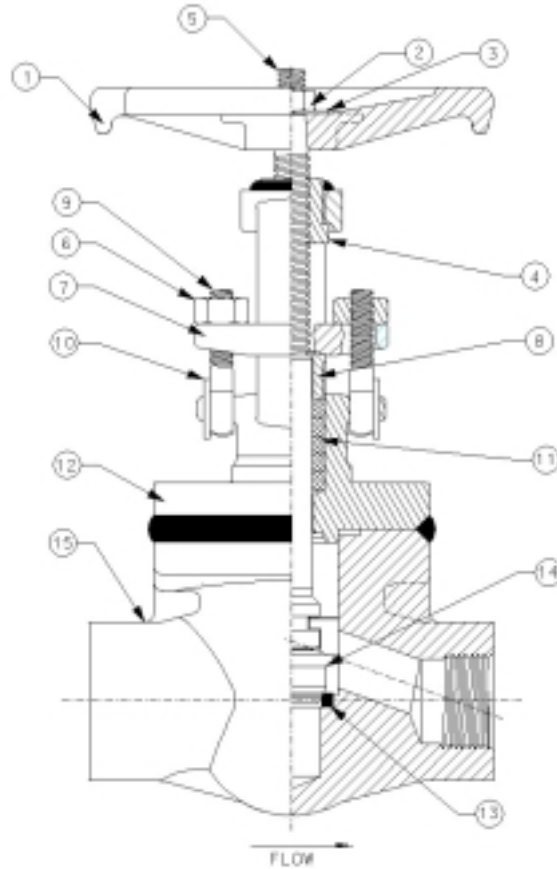
- MATERIALS OF CONSTRUCTION
 - E TRIM (13 Cr/FHF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	416 Stainless Steel	A582	
5	Stem	416 Stainless Steel	A582	
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Plate	Forged Carbon Steel	A105	
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Stainless Steel		300 Series
11	* Packing	Graphite		Grafoil® (241 or equal)
11a	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet	Forged Steel, Normalized	A015N	Low Carbon
13	Seat	Cobalt-Chromium Super Alloy		CoCr-A
14	Disc	Cobalt-Chromium Super Alloy		CoCr-A
15	Body	Forged Steel, Normalized	A105N	Low Carbon

Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.



DIMENSIONAL SPECIFICATIONS				NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.				
Size	Handwheel Dia.	End To End	Center to Top(Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/2	4-1/2	4	8-1/4	25/64	.855	.375	7-1/4	2.1
3/4	4-1/2	4	8-1/4	1/2	1.065	.500	8-1/4	3.1
1	5-1/2	5-1/2	9	3/4	1.330	.500	13-1/4	7.0
1-1/2	6-5/8	6-1/2	10-5/8	1-3/16	1.915	.500	24-3/4	18.1
2	8-1/4	7	12-1/4	1-15/32	2.406	.625	39-1/2	25.2

RP&C VALVE

**CLASS
800**

RP&C FORGED STEEL GLOBE VALVES

FWB80D NPT ENDS SIZES 1/4" THRU 2"

FWB81D SOCKET WELD ENDS

- FORGED STEEL
 - ASTM A105, LOW CARBON (.25 MAX.), NORMALIZED
 - STANDARD PORT
 - OS&Y – WELDED BONNET
 - WORKING PRESSURE (NON-SHOCK)
 - 460 PSIG @ 900° F. Steam-Oil
 - 715 PSIG @ 850° F. Steam-Oil
 - 1975 PSIG @ -20° To 100° F.
 - CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:
 - API
 - API 598
 - API 602
 - ASME/ANSI
 - B1.20.1
 - B16.11
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 - B31.1
 - B31.3
- NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

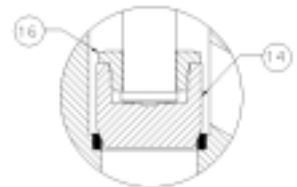
- MATERIALS OF CONSTRUCTION
 - D TRIM (13 Cr/HF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	Stainless Steel	A276	Type 410
5	Stem	Stainless Steel	A276	Type 410
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Graphite		Grafoil® (241 or equal)
11b	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet	Forged Steel, Normalized	A105N	Low Carbon
13	Seat	Cobalt-Chromium Super Alloy		CoCr-A
14	Disc	420 Stainless Steel	A582	Heat Treated
15	Body	Forged Steel, Normalized	A105N	Low Carbon
16	Disc Nut	416 Stainless Steel	A582	

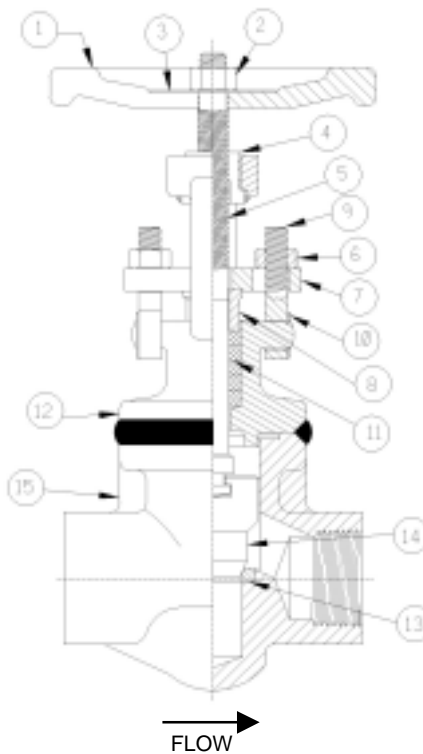
Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.



Disc Design 1 1/4" Thru 2"



DIMENSIONAL SPECIFICATIONS					NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.			
Size	Handwheel Dia.	End To End	Center to Top(Open)	Port Dia.	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	3-7/8	3	6-3/8	9/32	.555	.375	4	1.1
3/8	3-7/8	3	6-3/8	5/16	.690	.375	4	1.6
1/2	3-7/8	3	6-3/8	3/8	.855	.375	4	2.1
3/4	3-7/8	3-1/2	6-5/8	1/2	1.065	.500	4-1/2	3.1
1	5-1/2	4-3/8	8-1/4	3/4	1.330	.500	7	7.0
1-1/4	5-1/2	6	9-1/4	1	1.675	.500	14	15.4
1-1/2	5-1/2	6	9-1/4	1-1/4	1.915	.500	13-1/2	18.1
2	6-1/2	7	11	1-1/2	2.406	.625	19	25.2

RP&C VALVE

**CLASS
1690**

RP&C FORGED STEEL GLOBE VALVES

- K1200E** SIZES 1/4" THRU 1-1/2" NPT
- K1210E** SIZES 1/4" THRU 2-1/2" SOCKET WELD
- K1220E** SIZES 1/4" THRU 4" BUTT WELD

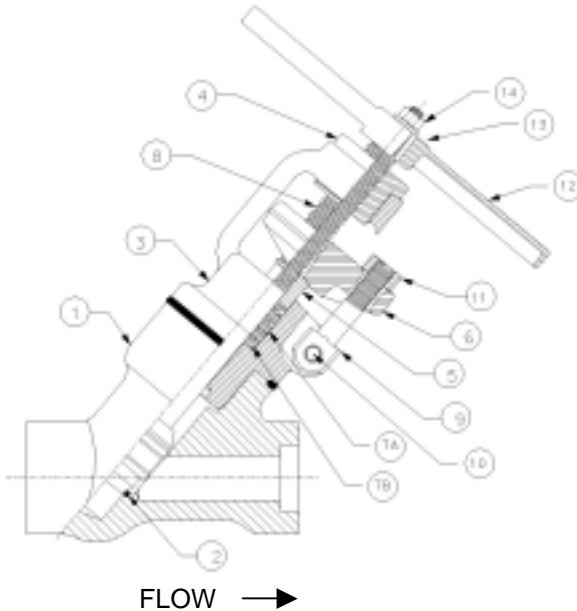
- **FORGED STEEL ASTM A182 Gr. F22 Cl. 3**
(2-1/4% Chrome, 1% Moly)
- **OS&Y GLOBE VALVE, INCLINED STEM**
- **INTEGRAL BACKSEAT**
- **SEAL WELDED BONNET**
- **REFER TO CHART ON PAGE 2Y FOR PRESSURE/TEMP. RATINGS**
(NOT RECOMMENDED FOR PROLONGED USE ABOVE 1100 F°)
- **CONFORMS TO THE APPLICABLE PARTS OF THE FOLLOWING ASME/ANSI SPECIFICATIONS:**
B16.34
B31.3
B1.20.1 SCREWED ENDS
B16.11 SOCKET WELD ENDS
B16.25 BUTT WELD ENDS

MATERIALS OF CONSTRUCTION

NO.	PART	MATERIAL	ASTM SPEC.	REMARKS
1	Body	Forged Steel	A182	Grade F22 Cl. 3
2	Seat Ring	Cobalt-Chromium Super Alloy		CoCr-A
3	Bonnet	Forged Steel	A182	Grade F22 Cl. 3
4	Operating Nut	Bronze	B150	Alloy 642
5	Gland	Stainless Steel	A582	Type 416
6	Gland Flange	Alloy Steel	A29	Grade 4140
7a	* Packing	Grafoil®		Crane 241
7b	* Wiper rings	Graphite Yarn		Crane 1625GF
8	Stem Assembly	416 Stainless Steel	A582	Stem
		CoCr-A		Disc
9	Eyebolt	Alloy Steel	A193	Grade B7
10	Eyebolt Pin	Alloy Steel	A29	Grade 4140
11	Gland Nut	Steel	A194	Grade 2H
12	Handwheel	Malleable Iron	A47	Grade 32510
13	Nameplate	Aluminum		
14	Handwheel Nut	Steel	A108	Zinc Plated

* RECOMMENDED SPARE PARTS

Round handwheels are standard thru 1". Impactor handles are standard on 1-1/4" and larger.



DIMENSIONAL SPECIFICATIONS

NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.

Size	Handwheel Dia.	End To End	Center to Top(Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	6-1/2	4-1/2	9-5/32	5-16	.555	.375	9-1/2	2.0
3/8	6-1/2	4-1/2	9-5/32	3/8	.690	.375	9-1/2	2.5
1/2	6-1/2	4-1/2	9-5/32	7/16	.855	.375	9-1/2	3.5
3/4	6-1/2	5-7/16	11-5/32	9/16	1.065	.500	15-3/4	5.6
1	7-3/8	5-7/16	11-5/32	13/16	1.330	.500	15-3/4	12.7
1-1/4	13-1/2	8-1/4	14-29/32	1-1/8	1.675	.500	39	26.0
1-1/2	13-1/2	8-1/4	14-29/32	1-1/4	1.915	.500	39	35.0
2	13-1/2	9-1/2	17-1/16	1-9/16	2.406	.625	65-1/2	46.0
2-1/2"	20	12-3/4	25-5/8	2	--	--	180	95.0
3" & 4"	20	12-3/4	25-5/8	2	--	--	180	95.0

RP&C VALVE

**CLASS
1690**

RP&C FORGED STEEL GLOBE VALVES

K1202E SIZES 1/4" THRU 1-1/2" NPT

K1212E SIZES 1/4" THRU 2-1/2" SOCKET WELD

K1222E SIZES 1/4" THRU 4" BUTT WELD

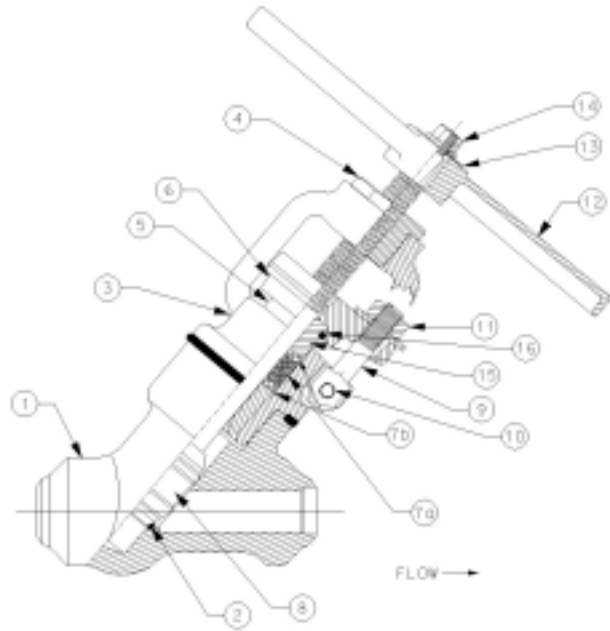
- FORGED STEEL ASTM A182 Gr. F22 Cl. 3 (2-1/4% Chrome, 1% Moly)
- OS&Y GLOBE VALVE, INCLINED STEM
- LOOSE BACKSEAT
- SEAL WELDED BONNET
- REFER TO CHART ON PAGE 2Y FOR PRESSURE/TEMP. RATINGS (NOT RECOMMENDED FOR PROLONGED USE ABOVE 1100 F°)
- CONFORMS TO THE APPLICABLE PARTS OF THE FOLLOWING ASME/ANSI SPECIFICATIONS:
B16.34
B31.3
B1.20.1 SCREWED ENDS
B16.11 SOCKET WELD ENDS
B16.25 BUTT WELD ENDS

MATERIALS OF CONSTRUCTION

NO.	PART	MATERIAL	ASTM SPEC.	REMARKS
1	Body	Forged Steel	A182	Grade F22 Cl. 3
2	Seat Ring	Cobalt-Chromium Super Alloy		CoCr-A
3	Bonnet	Forged Steel	A182	Grade F22 Cl. 3
4	Operating Nut	Bronze	B150	Alloy 642
5	Gland	Stainless Steel	A582	Type 416
6	Gland Flange	Alloy Steel	A29	Grade 4140
7a	* Packing	Grafoil®		Crane 241
7b	* Wiper rings	Graphite Yarn		Crane 1625GF
8	Stem Assembly	416 Stainless Steel	A582	Stem
		CoCr-A		Disc
9	Eyebolt	Alloy Steel	A193	Grade B7
10	Eyebolt Pin	Alloy Steel	A29	Grade 4140
11	Gland Nut	Steel	A194	Grade 2H
12	Handwheel	Malleable Iron	A47	Grade 32510
13	Nameplate	Aluminum		
14	Handwheel Nut	Steel	A108	Zinc Plated
15	* Loose Backseat	Stainless Steel	A582	Type 416
16	Retainer	Stainless Steel	A582	Type 416

* RECOMMENDED SPARE PARTS

Round handwheels are standard thru 1". Impactor handles are standard on 1-1/4" and larger.



DIMENSIONAL SPECIFICATIONS

NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.

Size	Handwheel Dia.	End To End	Center to Top (Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	6-1/2	4-1/2	9-5/32	5-16	.555	.375	9-1/2	2.0
3/8	6-1/2	4-1/2	9-5/32	3/8	.690	.375	9-1/2	2.5
1/2	6-1/2	4-1/2	9-5/32	7/16	.855	.375	9-1/2	3.5
3/4	6-1/2	5-7/16	11-5/32	9/16	1.065	.500	15-3/4	5.6
1	7-3/8	5-7/16	11-5/32	13/16	1.330	.500	15-3/4	12.7
1-1/4	13-1/2	8-1/4	14-29/32	1-1/8	1.675	.500	39	26.0
1-1/2	13-1/2	8-1/4	14-29/32	1-1/4	1.915	.500	39	35.0
2	13-1/2	9-1/2	17-1/16	1-9/16	2.406	.625	65-1/2	46.0
2-1/2"	20	12-3/4	25-5/8	2	--	--	180	95.0
3" & 4"	20	12-3/4	25-5/8	2	--	--	180	95.0

RP&C VALVE

**CLASS
2500**

RP&C FORGED STEEL GLOBE VALVES

K1250E SIZES 1/4" THRU 1-1/2" NPT (CLASS 2500)*

K1260E SIZES 1/4" THRU 2-1/2" SOCKET WELD

K1270E SIZES 1/4" THRU 3" BUTT WELD

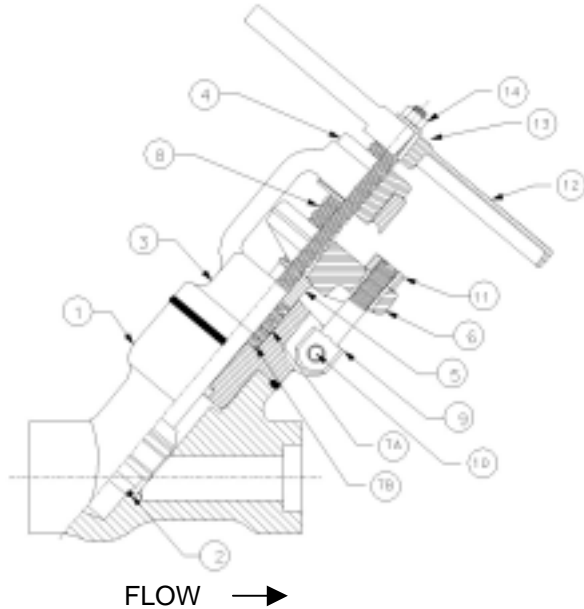
- FORGED STEEL ASTM A182 Gr. F22 Cl. 3 (2-1/4% Chrome, 1% Moly)
- OS&Y GLOBE VALVE, INCLINED STEM
- INTEGRAL BACKSEAT
- SEAL WELDED BONNET
- REFER TO CHART ON PAGE 2Y FOR PRESSURE/TEMP. RATINGS (NOT RECOMMENDED FOR PROLONGED USE ABOVE 1100 F°)
- CONFORMS TO THE APPLICABLE PARTS OF THE FOLLOWING ASME/ANSI SPECIFICATIONS:
B16.34
B31.3
B1.20.1 SCREWED ENDS
B16.11 SOCKET WELD ENDS
B16.25 BUTT WELD ENDS

MATERIALS OF CONSTRUCTION

NO.	PART	MATERIAL	ASTM SPEC.	REMARKS
1	Body	Forged Steel	A182	Grade F22 Cl. 3
2	Seat Ring	Cobalt-Chromium Super Alloy		CoCr-A
3	Bonnet	Forged Steel	A182	Grade F22 Cl. 3
4	Operating Nut	Bronze	B150	Alloy 642
5	Gland	Stainless Steel	A582	Type 416
6	Gland Flange	Alloy Steel	A29	Grade 4140
7a	* Packing	Grafoil ®		Crane 241
7b	* Wiper rings	Graphite Yarn		Crane 1625GF
8	Stem Assembly	416 Stainless Steel	A582	Stem
		CoCr-A		Disc
9	Eyebolt	Alloy Steel	A193	Grade B7
10	Eyebolt Pin	Alloy Steel	A29	Grade 4140
11	Gland Nut	Steel	A194	Grade 2H
12	Handwheel	Malleable Iron	A47	Grade 32510
13	Nameplate	Aluminum		
14	Handwheel Nut	Steel	A108	Zinc Plated

* RECOMMENDED SPARE PARTS

Round handwheels are standard thru 1". Impactor handles are standard on 1-1/4" and larger.



ASME B16.34 DOES NOT ALLOW FOR THREADED ENDS ABOVE CLASS 2500

DIMENSIONAL SPECIFICATIONS

NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.

Size	Handwheel Dia.	End To End	Center to Top(Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	6-1/2	4-1/2	9-5/32	5-16	.555	.375	9-1/2	2.0
3/8	6-1/2	4-1/2	9-5/32	3/8	.690	.375	9-1/2	2.5
1/2	6-1/2	4-1/2	9-5/32	7/16	.855	.375	9-1/2	3.5
3/4	6-1/2	5-7/16	11-5/32	9/16	1.065	.500	15-3/4	5.6
1	7-3/8	5-7/16	11-5/32	13/16	1.330	.500	15-3/4	12.7
1-1/4	13-1/2	8-1/4	14-29/32	1-1/8	1.675	.500	39	26.0
1-1/2	13-1/2	8-1/4	14-29/32	1-1/4	1.915	.500	39	35.0
2	13-1/2	9-1/2	17-1/16	1-9/16	2.406	.625	65-1/2	46.0
2-1/2"	20	12-3/4	25-5/8	2	--	--	180	95.0
3" & 4"	20	12-3/4	25-5/8	2	--	--	180	95.0

RP&C VALVE

**CLASS
2500**

RP&C FORGED STEEL GLOBE VALVES

- K1252E** SIZES 1/4" THRU 1-1/2" NPT (CLASS 2500)*
K1262E SIZES 1/4" THRU 2-1/2" SOCKET WELD
K1272E SIZES 1/4" THRU 3" BUTT WELD

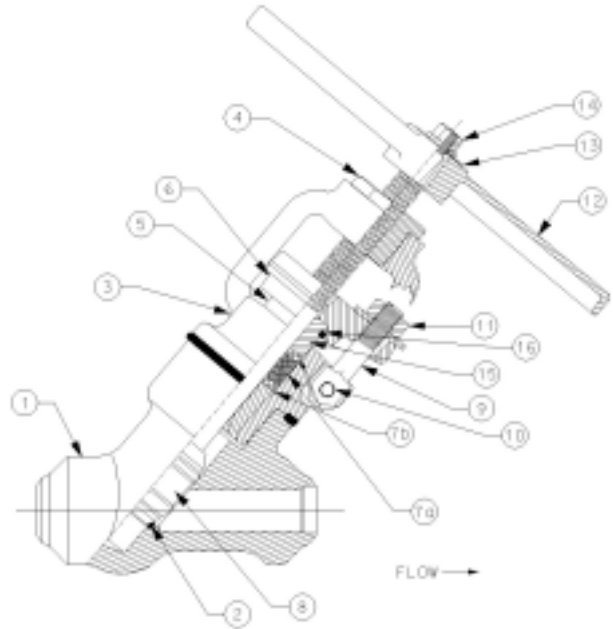
- FORGED STEEL ASTM A182 Gr. F22 Cl. 3 (2-1/4% Chrome, 1% Moly)
- OS&Y GLOBE VALVE, INCLINED STEM
- LOOSE BACKSEAT
- SEAL WELDED BONNET
- REFER TO CHART ON PAGE 2Y FOR PRESSURE/TEMP. RATINGS (NOT RECOMMENDED FOR PROLONGED USE ABOVE 1100 F°)
- CONFORMS TO THE APPLICABLE PARTS OF THE FOLLOWING ASME/ANSI SPECIFICATIONS:
 B16.34
 B31.3
 B1.20.1 SCREWED ENDS
 B16.11 SOCKET WELD ENDS
 B16.25 BUTT WELD ENDS

MATERIALS OF CONSTRUCTION

NO.	PART	MATERIAL	ASTM SPEC.	REMARKS
1	Body	Forged Steel	A105	
2	Seat Ring	Cobalt-Chromium Super Alloy		CoCr-A
3	Bonnet	Forged Steel	A105	
4	Operating Nut	Bronze	B150	Alloy 642
5	Gland	Stainless Steel	A582	Type 416
6	Gland Flange	Alloy Steel	A29	Grade 4140
7a	* Packing	Grafoil ®		Crane 241
7b	* Wiper rings	Graphite Yarn		Crane 1625GF
8	Stem Assembly	416 Stainless Steel	A582	Stem
		CoCr-A		Disc
9	Eyebolt	Alloy Steel	A193	Grade B7
10	Eyebolt Pin	Alloy Steel	A29	Grade 4140
11	Gland Nut	Steel	A194	Grade 2H
12	Handwheel	Malleable Iron	A47	Grade 32510
13	Nameplate	Aluminum		
14	Handwheel Nut	Steel	A108	Zinc Plated
15	* Loose Backseat	Stainless Steel	A582	Type 416
16	Retainer	Stainless Steel	A582	Type 416

* RECOMMENDED SPARE PARTS

Round handwheels are standard thru 1". Impactor handles are standard on 1-1/4" and larger.



ASME B16.34 DOES NOT ALLOW FOR THREADED ENDS ABOVE CLASS 2500

DIMENSIONAL SPECIFICATIONS

NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.

Size	Handwheel Dia.	End To End	Center to Top(Open)	Port	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	6-1/2	4-1/2	9-5/32	5-16	.555	.375	9-1/2	2.0
3/8	6-1/2	4-1/2	9-5/32	3/8	.690	.375	9-1/2	2.5
1/2	6-1/2	4-1/2	9-5/32	7/16	.855	.375	9-1/2	3.5
3/4	6-1/2	5-7/16	11-5/32	9/16	1.065	.500	15-3/4	5.6
1	7-3/8	5-7/16	11-5/32	13/16	1.330	.500	15-3/4	12.7
1-1/4	13-1/2	8-1/4	14-29/32	1-1/8	1.675	.500	39	26.0
1-1/2	13-1/2	8-1/4	14-29/32	1-1/4	1.915	.500	39	35.0
2	13-1/2	9-1/2	17-1/16	1-9/16	2.406	.625	65-1/2	46.0
2-1/2"	20	12-3/4	25-5/8	2	--	--	180	95.0
3" & 4"	20	12-3/4	25-5/8	2	--	--	180	95.0

RP&C VALVE

RP&C FORGED STEEL GLOBE VALVES

**CLASS
800**

LF80D NPT ENDS SIZES 1/4" THRU 2"
LF81D SOCKET WELD ENDS

- FORGED STEEL
 - ASTM A350 Gr. LF2
 - STANDARD PORT
 - OS&Y – BOLTED BONNET
 - WORKING PRESSURE (NON-SHOCK)
 - 1100 PSIG @ 800° F. Steam-Oil
 - 1975 PSIG @ -20° To 100° F
 - 800°F. IS MAX. OPERATING TEMP. FOR LF2
 - CONFORM TO THE APPLICABLE PARTS OF THE FOLLOWING SPECIFICATIONS:
 - API
 - API 598 API 602
 - ASME/ANSI
 - B1.20.1 B16.11 B16.34 B31.1 B31.3
- NOTE: Valve can be furnished to meet NACE SPEC. MR0175.

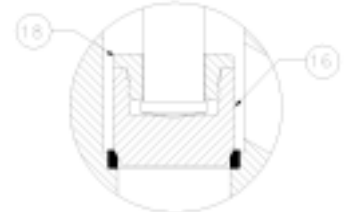
- MATERIALS OF CONSTRUCTION
 D TRIM (13 Cr/HF) STANDARD (See Page 8 for optional trims)

No.	Part	Material	ASTM Spec.	Remarks
1	Handwheel	Malleable Iron	A47	Gr. 32510
2	Handwheel Nut	Steel	A108	
3	Nameplate	Aluminum		
4	Operating Nut	Stainless Steel	A276	Type 410
5	Stem	Stainless Steel	A276	Type 410
6	Gland Nuts	303 Stainless Steel	A194	Grade 8F
7	Gland Flange	Carbon Steel	A108	Grade 1018
8	Gland	Carbon Steel	B484	Gr. 1, Cl. C, Type 1
9	Eyebolt	410 Stainless Steel		Hardened & Tempered
10	Eyebolt Washer	Carbon Steel		Grade 1018
11a	* Packing	Graphite		Grafoil® (241 or equal)
11b	* Wiper Rings	Braided Graphite		1630GF or equal
12	Bonnet Bolts	Alloy Steel	A193	Grade B8M Cl.2
13	Bonnet	Forged Steel	A350	Gr. LF2
14	* Gasket	316 SS/Grafoil®		Spiral Wound
15	Seat	Cobalt-Chromium Super Alloy		CoCr-A
16	Disc	420 Stainless Steel	A582	Heat Treated
17	Body	Forged Steel	A350	Gr. LF2
18	Disc Nut	416 Stainless Steel	A582	

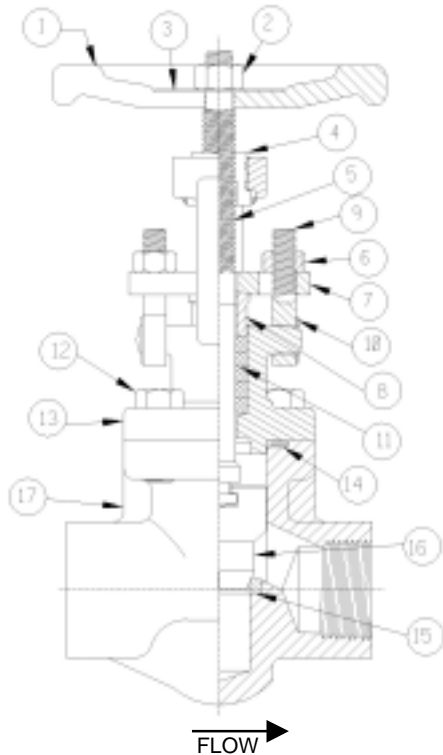
Operating Nut and Stem thread Lubricated

*** Recommended Spare Parts**

Note: Materials of construction may vary due to availability and Production runs, however parts will still conform to the requirements of API 602.



Disc Design 1 1/4" Thru 2"



DIMENSIONAL SPECIFICATIONS					NOTE: Dimensions shown are subject to change. Contact factory for certified prints (exact dimensions) when required.			
Size	Handwheel Dia.	End To End	Center to Top(Open)	Port Dia.	Socket Weld Bore	Socket Weld Depth	Approximate Weight	Typical Cv Factors
1/4	3-7/8	3	6-3/8	9/32	.555	.375	4	1.1
3/8	3-7/8	3	6-3/8	5/16	.690	.375	4	1.6
1/2	3-7/8	3	6-3/8	3/8	.855	.375	4	2.1
3/4	3-7/8	3-1/2	6-5/8	1/2	1.065	.500	4-1/2	3.1
1	5-1/2	4-3/8	8-1/4	3/4	1.330	.500	7	7.0
1-1/4	5-1/2	6	9-1/4	1	1.675	.500	14	15.4
1-1/2	5-1/2	6	9-1/4	1-1/4	1.915	.500	13-1/2	18.1
2	6-1/2	7	11	1-1/2	2.406	.625	19	25.2

RP&C VALVE