

FORGED
STEEL
VALVES



RP&C Valve



RP&C Valve

SALES CENTER/WAREHOUSE
 U.S. ROUTE 522 S
 P.O. BOX 330
 MT. UNION, PA 17066
 (814) 542-2545 • (888) 231-0655
 (800) 345-7546 • FAX (814) 542-8092
 www.rpc-valve.com
 e-mail: rpcsales@rpc-valve.com



GENERAL TERMS AND CONDITIONS OF SALE OF: RP&C

WARRANTY	All products are warranted to be free from manufacturing defects for a period of one (1) year from date of shipment, and any found to be defective within that period will be replaced without charge, provided (1) that the product was used as recommended and in accordance with approved installation and operating practices, (2) that its failure resulted from a manufacturing defect and not from damage due to corrosive, abrasive, or other wear normally to be expected in the services involved, (3) that the product was not modified or changed (unless written approval was given by RP&C), and (4) that written notice of such defect is delivered to RP&C during such one (1) year period. No labor costs or other expense or liability is assumed. The Uniform Commercial Code shall not apply to the sale, nor the Michigan statutes adopting the Uniform Commercial Code. This express warranty is in lieu of and excludes all other warranties, guarantees, or representations, expressed or implied. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.
EXCLUSIONS	Do not use RP&C products in aircraft or aerospace applications. No warranties, guarantees or representations of any kind are made with respect to such applications. Purchaser assumes all risks of any use in such applications and will indemnify and hold harmless RP&C against and from any claims, costs (including attorney's fees) and liabilities arising out of such use.
PURCHASER'S REMEDIES	The Purchaser's remedies with respect to any product furnished by RP&C hereunder that is found not to be in conformity with the terms and conditions of the contract because of breach of contract, breach of express or implied warranty, or negligence shall be limited exclusively to the right of replacement of such defective product or, at our option, repayment of our sale price of the product. In no event shall RP&C be liable for claims (based upon breach of contract, breach of express or implied warranty, or negligence) for any other damages, whether direct, immediate, foreseeable, consequential, or special or for any expenses incurred by reason of the use or misuse, sale or fabrication of products which do or do not conform to the terms and conditions of the contract.
PRICES	Prices, and other terms of sale and payment, are subject to change without notice. Unless a contrary provision appears in this price schedule, quotation or order acknowledgment, prices may be withdrawn without notice at any time. Stenographic or clerical errors are subject to correction.
ACCEPTANCE OF ORDERS	All orders are subject to RP&C credit department approval prior to acceptance by RP&C. No assignment of the Purchaser's rights may be made without the written consent of RP&C.
REMITTANCES	All accounts are payable in United States funds, free of exchange, collection, or any other charges. If, in the sole discretion of RP&C, the financial condition of the Purchaser at any time so requires, RP&C retains the right to require full or partial payment in advance.
PARTIAL SHIPMENTS AND PAYMENTS	RP&C reserves the right to make partial shipments from time to time, and to render invoices therefore, which shall be due and payable as provided in said invoices and the paragraph entitled "Remittances". If the Purchaser becomes overdue in any such partial payment, RP&C shall be entitled to suspend work and/or avail itself of other legal remedies.
TAXES	Unless otherwise specifically noted, the amount of any sale, use, occupancy, excise tax, or other tax, of any nature, federal, state, or local for which RP&C is legally liable, either initially or through failure of payment by Purchaser, shall be added or be in addition to the price quoted and Purchaser agrees to pay the same to RP&C.
SHORTAGES & DAMAGES IN TRANSIT	Claims for shortages must be made in writing within ten days after receipt of shipment, but loss of or damage to material in transit is the responsibility of the carrier.
DELAYS	All promises of shipment are estimated as closely as possible, and we will use our best efforts to ship within the time promised but do not guarantee to do so, and assume no liability for not doing so. Materials stated to be in stock are subject to prior sale.
CANCELLATION & SUSPENSION	The order or contract is subject to cancellation or instructions to suspend or delay work or delivery only upon receipt of written notification and with our consent, and upon agreement to pay RP&C's adjustment charge. Orders for special products (usually "price on application" items) may be changed and/or cancelled only upon receipt of written instructions with an expressed agreement to make payment for material used and work already performed.
RETURN OF MATERIAL	No product of our manufacture may be returned without written consent. All goods returned are subject to a handling charge plus freight in both directions and charges for any required reconditioning, unless otherwise specified in writing by RP&C.
PATENTS	Purchaser will indemnify and hold harmless RP&C against and from any claims, costs (including attorney's fees) and liabilities arising out of any suit alleging infringement of any patents, by any product supplied by RP&C under the contract and made in accordance with the design and/or specification furnished by the Purchaser to RP&C.
GOVERNING LAW	The contract shall be governed by, construed, and enforced in accordance with the laws of the Commonwealth of Pennsylvania, without regard to conflict of law principles.
NO WAIVER	The failure of RP&C to insist, in any one or more instances upon the performance of any of the terms, covenants, or conditions of the contract or to exercise any right thereunder shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant, or condition or the future exercise of such rights, nor shall it be deemed to be a waiver or relinquishment of any other term, covenant, or condition or the exercise of any other rights under the contract.
DIES, TOOLS AND PATTERNS	Dies, tools and patterns required to produce the article quoted on shall remain the property of RP&C. Preparation charges for dies, tools and patterns represent only a portion of cost. Payment of such charge does not give you any right, title, or interest in such dies, tools, or other products of preparation. We will not be responsible for retention of dies or patterns on which no orders are received for two years or more.
FORCE MAJEURE	Any delays in or failure of performance of RP&C shall not constitute default or give rise to any claims or damages if and to the extent that such delay or failure is caused by occurrences beyond the control of RP&C, including but not limited to acts of God or the public enemy, expropriation or confiscation of facilities, compliance with any order or request of any governmental authority, acts of war, rebellion or sabotage or damage resulting therefrom, embargoes or other export restrictions, fires, floods, explosions, accidents, breakdowns, riots or strikes or other conceived acts of workmen, whether direct or indirect, or any other causes whether or not of the same class or kind as those specifically above named which are not within the control of RP&C and which by the exercise of reasonable diligence, RP&C is unable to prevent or provide against.
PURCHASER'S ACCEPTANCE OF ABOVE CONDITIONS	The contract shall be subject to the terms and conditions contained or referred to in RP&C's price schedule, quotation or order acknowledgment and to no others whatsoever. No waiver, alteration, or modification of the terms and conditions in this price schedule, quotation or order acknowledgment shall be binding unless in writing and signed by an authorized representative of RP&C.

Note: The material in this catalog is for general information. For specific performance data and proper material selection, consult your RP&C representative. Although every attempt has been made to ensure that the information contained in this catalog is correct, RP&C reserves the right to change designs, materials or specifications without notice.

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RP&C products are manufactured and tested in strict accordance to ASTM, ASME, ANSI and API, and other applicable industry codes and specifications. Chemical and mechanical properties of all RP&C products are fully traceable to the original forging, lot, and raw material heat. Our extensive quality control system carefully monitors our manufacturing process to assure a product that performs

**EXCELLENCE IN
QUALITY IS THE
STANDARD AT RP&C**

to the highest industry standards. Quality assurance procedures include 100% hydrostatic and pneumatic testing of all valves in full conformance to applicable API standards and industry codes.

**Production Capabilities
that Meet Your Demands**

RP&C is an integrated supplier with in-house forging, machining and assembly-test operations. Our forge shop contains a complete line of forging and support equipment, including a forge die shop, all located in

one modern facility. Automated production lines and next generation machining systems offer high volume capabilities with uncompromising quality.

Our Mission

To be, today and in the future, the recognized leader in our industry, marketing and manufacturing forged steel valves, cast steel valves, forged fittings, branch connections and other related products to satisfy our customer's expectations.

To be cost effective through Total Quality performance of these operations, and thus provide the resources required to support our commitment to improve our products, processes and customer service.



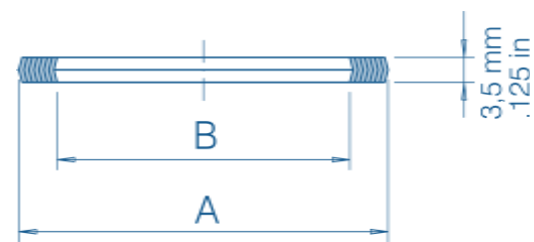
To be a law abiding corporate citizen respecting the rights of individuals, contributing to the needs of the community and conserving the state of the environment.

We're Here for You

This catalog offers a vast amount of product information and specifications. In the event that you need additional information or technical assistance please call our friendly and knowledgeable customer service personnel at 1-888-231-0655 or visit our website at www.rpc-valve.com

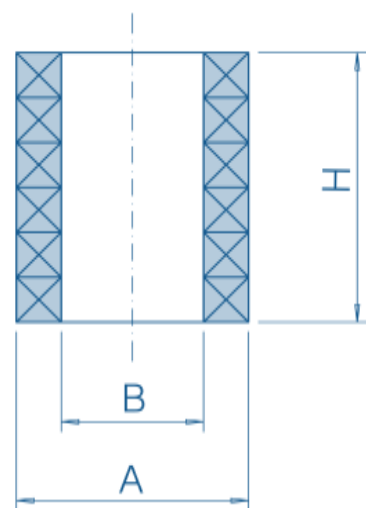
RECOMMENDED SPARE PARTS FOR FORGED VALVES

BOLTED BONNET GASKET



GASKET					
Type	A		B		
	mm	in.	mm	in.	
G1	36	1.42	27	1.06	
G2	40	1.57	31	1.22	
G3	48	1.89	39	1.54	
G4	54	2.13	44	1.73	
G5	62	2.44	52	2.05	
G6	66	2.60	54	2.13	
G7	74	2.91	60	2.36	
G8	85	3.35	73	2.87	
G9	95	3.74	78	3.07	
G10	87	3.43	76	2.99	
G11	70	2.76	60	2.36	

STEM PACKING



PACKING							
Type	A		B		H		
	mm	in.	mm	in.	mm	in.	
BH2	15,7	.62	9,5	.37	22	.87	
BH3	17,2	.68	11,1	.44	22	.87	
BH4	17,2	.68	11,1	.44	26	1.02	
BH5	19,2	.76	12,7	.50	26	1.02	
BH6/A	24,5	.96	14,5	.57	30	1.18	
BH8	32,2	1.27	19	.75	36	1.42	
BY5/A	26	1.02	16	.63	30	1.18	
BY7	28,2	1.11	19	.75	30	1.18	
2B3	19,2	.76	12,7	.5	35	1.38	
2B4/A	26	1.02	16	.75	35	1.38	
2B5	28,2	1.11	19	.63	40	1.57	
2B8	35,7	1.41	22,2	.87	52	2.05	
25B8	38,5	1.52	25,4	1	52	2.05	
4B8	40,5	1.59	28,5	1.12	54	2.13	
9B8/A	35,7	1.41	22,2	.87	42	1.65	
9BE5	40,5	1.59	19	.75	32	1.26	



**The Best Value -
Price, Quality, Service
All The Time.**

How To Order Class 800 & 1500 Valves

1. Special Design

- E-Refinery Service (API 591)

2. Specify Material

- C – A182 Type F5
- F – A105
- K – A182 Type F22 Cl.3
- S – A182 Type F316/F316L
- LF – A350 Type LF2
- J – A182 Type F91

3. Design Features

- O – Full Port
- WB – Welded Bonnet
- 8 – SE X SW

4. Figure Numbers

GATE VALVES

- Class 800
- 51 – MSE X FSE, OS&Y
 - 52 – MSW X FSW, OS&Y
 - 53 – MSE X FSW, OS&Y
 - 54 – MSW X FSE, OS&Y
 - 56 – SE, OS&Y
 - 57 – SW, OS&Y

- Class 1500
- 556 – SE, OS&Y
 - 557 – SW, OS&Y

- Flanged
- 158 – 150 FLG, BB, OS&Y
 - 308 – 300 FLG, BB, OS&Y
 - 608 – 600 FLG, BB, OS&Y

GLOBE VALVES

- Class 800
- 80 – SE, OS&Y
 - 81 – SW, OS&Y
- Class 1500
- 580 – SE, OS&Y
 - 581 – SW, OS&Y

- Flanged
- 180 – 150 FLG, BB, OS&Y
 - 380 – 300 FLG, BB, OS&Y
 - 680 – 600 FLG, BB, OS&Y

CHECK VALVES

- Class 800
- 90 – SE, PISTON
 - 91 – SW, PISTON
 - 96 – SE, BALL CHECK
 - 97 – SW BALL CHECK
 - 98 – SE, SWING CHECK
 - 99 – SW, SWING CHECK

- Class 1500
- 590 – SE, PISTON
 - 591 – SW, PISTON

- Flanged
- 190 – 150 FLG, PISTON
 - 390 – 300 FLG, PISTON
 - 690 – 600 FLG, PISTON



PRESSURE-TEMPERATURE RATINGS

PSI - °F		MATERIALS: A 182 F22 CL3 (b)					BAR - °C				
LIMITED CLASS							LIMITED CLASS				
Temperature °F	800 #LTD	1690 #LTD	2500 #LTD	2680 #LTD	4500 #LTD	Temperature °C	800 #LTD	1690 #LTD	2500 #LTD	2680 #LTD	4500 #LTD
-20 to 100	2,000	4,225	6,250	6,700	11,250	-29 to 38	137,9	291,3	431,0	462,1	775,7
200	2,000	4,225	6,250	6,700	11,250	93,9	137,9	291,3	431,0	462,1	775,7
300	1,980	4,175	6,180	6,625	11,120	148,9	136,5	287,9	426,1	456,8	766,7
400	1,935	4,080	6,035	6,470	10,865	204,4	133,4	281,3	416,1	446,1	749,1
500	1,920	4,055	6,000	6,430	10,800	260,0	132,4	279,6	413,7	443,3	744,7
600	1,920	4,055	6,000	6,430	10,800	315,6	132,4	279,6	413,7	443,3	744,7
650	1,905	4,035	5,965	6,395	10,735	343,3	131,3	278,2	411,3	441,0	740,2
700	1,900	4,005	5,930	6,355	10,670	371,1	131,0	276,1	408,9	438,2	735,7
750	1,840	3,885	5,790	6,165	10,350	398,9	126,9	267,9	399,2	425,1	713,6
800	1,795	3,790	5,605	6,010	10,095	426,7	123,8	261,3	386,5	414,4	696,0
850	1,715	3,620	5,355	5,740	9,645	454,4	118,2	249,6	367,8	395,8	665,0
900	1,600	3,380	5,000	5,360	9,000	482,2	110,3	233,0	344,7	369,6	620,5
950	1,275	2,720	4,075	4,380	7,555	510,0	87,9	187,5	281,0	302,0	521,0
1000	895	1,980	3,040	3,290	6,050	537,8	61,7	136,5	209,6	226,8	417,1
1050	600	1,330	2,040	2,205	4,065	565,6	41,4	91,7	140,6	152,0	280,3
1100	380	830	1,280	1,385	2,545	593,3	26,2	57,2	88,2	95,5	175,5
1150	235	525	800	865	1,590	621,1	16,2	36,2	55,2	59,6	109,6
1200	145	310	480	520	955	648,9	10,0	21,4	33,1	35,8	65,8

PSI - °F		MATERIALS: A 182 F316 (c) - ASTM A182 F316H					BAR - °C				
LIMITED CLASS							LIMITED CLASS				
Temperature °F	800 #LTD	1690 #LTD	2500 #LTD	2680 #LTD	4500 #LTD	Temperature °C	800 #LTD	1690 #LTD	2500 #LTD	2680 #LTD	4500 #LTD
-20 to 100	2,000	4,225	6,250	6,700	11,250	-29 to 38	137,9	291,3	430,9	462,0	775,7
200	1,840	3,885	5,750	6,165	10,350	93,9	126,9	267,9	396,5	425,1	713,6
300	1,665	3,515	5,200	5,575	9,360	148,9	114,8	242,3	358,5	384,4	645,4
400	1,520	3,210	4,750	5,090	8,550	204,4	104,8	221,3	327,5	350,9	589,5
500	1,420	2,990	4,430	4,750	7,970	260,0	97,9	206,2	305,4	327,5	549,5
600	1,340	2,840	4,195	4,500	7,555	315,6	92,4	195,8	289,3	310,3	520,9
650	1,315	2,775	4,105	4,400	7,395	343,3	90,7	191,3	283,0	303,4	509,9
700	1,295	2,725	4,035	4,325	7,265	371,1	89,3	187,9	273,4	298,2	500,9
750	1,265	2,680	3,965	4,250	7,135	398,9	87,2	184,8	273,4	293,0	491,9
800	1,260	2,655	3,930	4,215	7,070	426,7	86,9	183,1	271,0	290,6	487,5
850	1,245	2,625	3,885	4,165	6,990	454,4	85,8	181,0	267,9	287,2	482,0
900	1,235	2,610	3,855	4,135	6,945	482,2	85,1	180,0	265,9	285,1	478,8
950	1,220	2,580	3,815	4,090	6,870	510,0	84,1	179,9	263,0	282,0	473,7
1000	1,120	2,370	3,505	3,760	6,310	537,8	77,2	163,4	241,7	259,2	435,1
1050	1,120	2,370	3,505	3,760	6,310	565,6	77,2	163,4	241,7	259,2	435,1
1100	1,030	2,200	3,260	3,545	6,115	593,3	71,0	151,7	224,8	244,4	421,6
1150	815	1,795	3,655	2,985	5,495	621,1	56,2	123,8	252,0	205,8	378,9
1200	640	1,400	2,080	2,340	4,300	648,9	44,1	96,5	143,4	164,8	296,5
1250	510	1,115	1,655	1,865	3,425	676,7	35,2	76,9	114,1	128,6	236,1
1300	400	885	1,310	1,470	2,705	704,4	27,6	61,0	90,3	101,3	186,5
1350	330	730	1,075	1,210	2,230	732,2	22,7	50,3	74,1	83,4	153,7
1400	260	570	845	950	1,755	760,0	17,9	39,3	58,3	66,5	121,0
1450	200	440	660	740	1,355	787,8	13,8	30,3	45,5	51,0	93,4
1500	140	315	465	520	955	815,6	9,6	21,7	32,1	35,8	65,8

Notes:

- a - Permissible, but not recommended for prolonged use above 800°F (427°C)
- b - Permissible, but not recommended for prolonged use above 1100°F (593°C)
- c - At temperatures over 1000°F (540°C), use only when the carbon content is 0.04% or higher
- d - Not to be used over 800°F (427°C)

Ratings are in accordance with ASME B16.34a - 1998
 Flanged end valves are rated as Standard Class only
 A rating temperature greater than 1000°F (540°C) does not apply to thread end valves
 Limited Class ratings apply to weld end and thread end valves only

PRESSURE-TEMPERATURE RATINGS

PSI - °F		MATERIALS: A105 N (a)					BAR - °C				
LIMITED CLASS											
Temperature °F	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD	Temperature °C	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD
-20 to 100	2,000	4,225	6,250	6,700	11,250	-29 to 38	137.9	291.3	431.0	462.0	775.7
200	2,000	4,225	6,250	6,700	11,250	93.3	137.9	291.3	431.0	462.0	775.7
300	2,000	4,225	6,250	6,700	11,250	148.9	137.9	291.3	431.0	462.0	775.7
400	2,000	4,225	6,250	6,700	11,250	204.4	137.9	291.3	431.0	462.0	775.7
500	2,000	4,225	6,250	6,700	11,250	260.0	137.9	291.3	431.0	462.0	775.7
600	1,900	4,015	5,940	6,370	10,690	315.6	131.0	276.8	409.6	439.2	737.1
650	1,865	3,940	5,825	6,245	10,485	343.3	128.6	271.7	408.5	430.6	722.9
700	1,850	3,910	5,780	6,195	10,405	371.1	127.5	269.6	398.5	427.1	717.4
750	1,680	3,550	5,250	5,630	9,450	398.9	115.8	244.8	362.0	388.2	651.6
800	1,375	2,895	4,285	4,595	7,715	426.7	94.8	199.6	295.4	316.8	531.9
850	895	1,880	2,785	2,985	5,015	454.4	61.7	129.6	192.0	205.8	345.8
900	575	1,205	1,785	1,915	3,215	482.2	83.1	83.1	123.1	132.0	221.7
950	350	745	1,110	1,195	2,060	510.0	24.1	51.4	76.5	82.4	142.0
1000	180	390	600	650	1,195	537.8	12.4	26.9	41.4	44.8	82.4

PSI - °F		MATERIALS: A 182 F5 - ASTM A182 F5a					BAR - °C				
LIMITED CLASS											
Temperature °F	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD	Temperature °C	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD
-20 to 100	2,000	4,225	6,250	6,700	11,250	-29 to 38	137.9	291.3	431.0	462.0	775.7
200	2,000	4,225	6,250	6,700	11,250	93.3	137.9	291.3	431.0	462.0	775.7
300	1,940	4,105	6,070	6,505	10,930	148.9	133.8	283.0	418.5	448.5	753.6
400	1,920	4,055	6,000	6,430	10,800	204.4	132.4	279.6	413.7	443.3	744.7
500	1,920	4,055	6,000	6,430	10,800	260.0	132.4	279.6	413.7	443.3	744.7
600	1,885	3,985	5,895	6,320	10,605	315.6	130.0	274.8	406.5	435.8	731.2
650	1,860	3,935	5,820	6,240	10,480	343.3	128.2	271.3	401.3	430.2	722.6
700	1,825	3,865	5,715	6,125	10,285	371.1	125.8	266.5	394.0	422.3	709.1
750	1,760	3,720	5,500	5,895	9,900	398.9	121.3	256.5	379.2	406.5	682.6
800	1,700	3,600	5,320	5,705	9,580	426.7	117.2	248.2	366.8	393.3	660.5
850	1,615	3,405	5,035	5,400	9,065	454.4	111.3	234.8	347.2	372.3	625.0
900	1,235	2,610	3,855	4,135	6,945	482.2	85.1	180.0	265.8	285.1	479.0
950	925	1,960	2,925	3,185	5,500	510.0	63.8	135.1	201.7	219.6	379.2
1000	685	1,510	2,230	2,505	4,620	537.8	47.2	104.1	153.7	172.7	318.5
1050	495	1,095	1,615	1,815	3,345	565.6	34.1	75.5	111.3	125.1	230.6
1100	345	755	1,115	1,255	2,310	593.3	23.8	52.1	76.9	86.5	159.3
1150	210	470	695	780	1,430	621.1	14.5	32.4	47.9	53.8	98.6
1200	120	260	385	430	800	648.9	8.3	17.9	26.6	29.6	55.2

PSI - °F		MATERIALS: A 182 F91					BAR - °C				
LIMITED CLASS											
Temperature °F	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD	Temperature °C	800 # LTD	1690 # LTD	2500 # LTD	2680 # LTD	4500 # LTD
-20 to 100	2,000	4,225	6,250	6,700	11,250	-29 to 38	137.9	291.3	431.0	462.0	775.7
200	2,000	4,225	6,250	6,700	11,250	93.3	137.9	291.3	431.0	462.0	775.7
300	2,000	4,225	6,250	6,700	11,250	148.9	137.9	291.3	431.0	462.0	775.7
400	2,000	4,225	6,250	6,700	11,250	204.4	137.9	291.3	431.0	462.0	775.7
500	2,000	4,225	6,250	6,700	11,250	260.0	137.9	291.3	431.0	462.0	775.7
600	2,000	4,225	6,250	6,700	11,250	315.6	137.9	291.3	431.0	462.0	775.7
650	2,000	4,225	6,250	6,700	11,250	343.3	137.9	291.3	431.0	462.0	775.7
700	1,955	4,130	6,110	6,550	10,995	371.1	134.8	284.8	421.3	451.6	758.1
750	1,945	4,105	6,070	6,505	10,930	398.9	134.1	283.0	418.6	448.5	753.6
800	1,920	4,055	6,000	6,430	10,800	426.7	132.4	279.6	413.7	443.3	744.7
850	1,805	3,815	5,645	6,050	10,160	454.4	124.4	263.0	389.2	417.1	700.5
900	1,600	3,380	5,000	5,360	9,000	482.2	110.3	233.0	344.7	369.6	620.5
950	1,275	2,725	4,025	4,385	7,555	510.0	87.9	187.9	277.5	302.3	520.9
1000	1,160	2,555	3,780	4,240	7,820	537.8	80.0	176.2	260.7	292.3	539.2
1050	1,160	2,555	3,780	4,240	7,820	565.6	80.0	176.2	260.7	292.3	539.2
1100	1,040	2,290	3,390	3,805	7,005	593.3	71.7	157.9	233.7	262.3	483.0
1150	765	1,695	2,500	2,805	5,180	621.1	52.7	116.9	172.4	193.4	357.2
1200	495	1,095	1,615	1,820	3,345	648.9	34.1	75.5	111.3	125.5	230.6

HOW TO ORDER CLASS 800 & 1500 VALVES (CONTINUED)

5. Specify Trim

- A – 316 Trim\HF (Standard on 316 Valves)
- D – 13 Cr Trim\HF (Standard)
- E – Full Stellite Trim (Standard on #1500)
- H – Hastelloy Trim
- M – Monel Trim

6. Specify Options

- B – B7M Bolting/NACE
- C – Chain Operated
- G – Garlock EVSP pkg.
- H – Hastelloy Trim
- I – Monel/T.F.E. Gasket
- J – Ring Joint Flange
- K – Live Loaded Packing
- L – Locking Bracket
- N – Hastelloy C Stem
- O – Oxygen Cleaned
- P – 125 RMS Flange
- Q – L7M Bolting
- S – B8 Bolting
- T – TFE Packing, 316/TFE Gasket
- U – 316/TFE Gasket Only
- V – Vacuum Service (TFE Packing)
- Z – TFE Packing Only
- UH – L7 Bolts



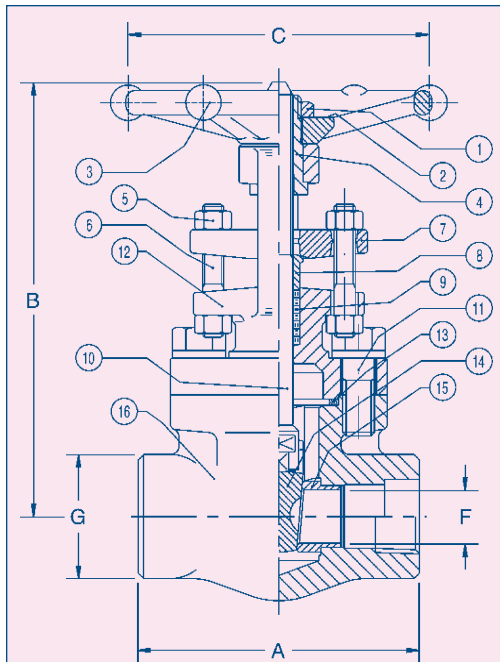
Key

- BB – Bolted Bonnet
- WB – Welded Bonnet
- SE – Screwed End
- SW – Socket Weld
- BW – Butt Weld
- FP – Full Port
- FLG – Flanged
- MSE – Male Screwed End
- MSW – Male Socket Weld
- FSE – Female Screwed End
- FSW – Female Socket Weld

NOTE: More than one feature/option may be used in combination.

EF56D NPT ENDS

EF57D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-2H
6	Gland Bolt Studs	AISI-410
7	Gland Flange	A105
8	Packing Gland	AISI-410
9	Packing	Graphite
10	Stem	ASTM 479-TP410
11	Bolts	A193-B7
12	Bonnet	A105N
13	Gasket	F316L + Graphite
14	Wedge	AISI-410
15	Seat	AISI-410 + Stellite
16	Body	A105N

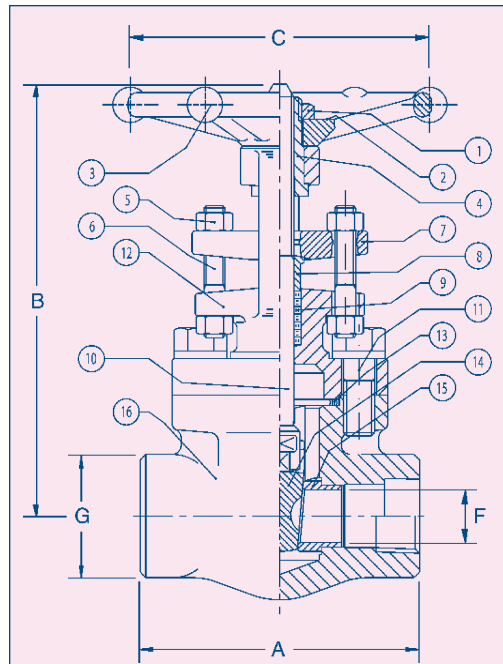
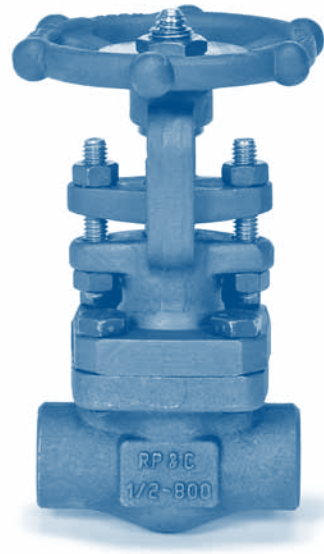
DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5	5.28
	mm	80	90	110	127	134
B open	inch	5.98	6.22	7.72	10.04	11.42
	mm	152	158	196	225	290
C	inch	3.46	3.46	3.82	5.43	5.43
	mm	88	88	97	138	138
F	inch	.38	.55	.71	1.18	1.48
	mm	9,6	14	18	30	36,5
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		5.6	11	25.5	77	97
Weight	lb.	4.25	5	7.75	16	16.75
	kg	1,9	2,3	3,6	7,3	7,6
PACKING		BH2	BH2	BH4	BH6	BY5
GASKET		G2	G2	G3	G6	G11

PRESSURE-TEMPERATURE RATINGS

PSI - °F		MATERIALS: ASTM A182 F304 L (d) - ASTM A182 F316 L										BAR - °C							
STANDARD CLASS												STANDARD CLASS							
Temperature °F	150	300	400	600	800	900	1500	2500	4500	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-20 to 100	230	600	800	1,200	1,600	1,800	3,000	5,000	9,000	-29 +38	15,9	41,4	55,2	82,7	110,3	124,1	206,9	344,8	620,6
200	195	505	675	1,015	1,350	1,520	2,530	4,220	7,595	93,3	13,4	34,8	46,5	70,0	93,1	104,8	174,4	291,0	523,7
300	175	455	605	910	1,210	1,360	2,270	3,780	6,805	148,9	12,1	31,4	41,7	62,7	83,4	93,8	156,5	260,6	469,2
400	160	415	550	825	1,100	1,240	2,065	3,440	6,190	204,4	11,0	28,6	37,9	56,9	75,8	85,5	142,4	237,2	426,8
500	145	380	510	765	1,020	1,145	1,910	3,180	5,725	260,0	10,0	26,2	35,2	52,7	70,3	78,9	131,7	219,3	394,7
600	140	360	480	720	960	1,080	1,800	3,000	5,400	315,6	9,7	24,8	33,1	49,6	66,2	74,5	124,1	206,9	372,3
650	125	350	470	700	935	1,050	1,750	2,920	5,255	343,3	8,6	24,1	32,4	48,3	64,5	72,4	120,7	201,3	362,3
700	110	345	460	685	915	1,030	1,715	2,860	5,150	371,1	7,6	23,8	31,7	47,2	63,1	71,0	118,2	197,2	355,1
750	95	335	450	670	895	1,010	1,680	2,800	5,040	398,9	6,6	23,1	31,0	46,2	61,7	69,6	115,8	193,1	347,5
800	80	330	440	660	875	985	1,645	2,740	4,930	426,7	5,5	22,8	30,3	45,5	60,3	67,9	113,4	188,9	339,9
850	65	320	430	645	860	965	1,610	2,680	4,825	454,4	4,5	22,1	29,6	44,5	59,3	66,5	111,0	184,8	332,7
SPECIAL CLASS												SPECIAL CLASS							
Temperature °F	150	300	400	600	800	900	1500	2500	4500	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-20 to 100	255	670	890	1,340	1,785	2,005	3,345	5,570	10,030	-29 +38	17,6	46,2	61,4	92,4	123,1	138,2	230,6	384,1	691,6
200	215	565	755	1,130	1,505	1,695	2,825	4,710	8,480	93,3	14,8	39,0	52,1	77,9	103,8	116,9	194,8	324,8	584,7
300	195	505	675	1,010	1,350	1,520	2,530	4,215	7,585	148,9	13,4	34,8	46,5	69,6	93,1	104,8	174,4	290,6	523,0
400	175	460	615	920	1,230	1,385	2,305	3,840	6,910	204,4	12,1	31,7	42,4	63,4	84,8	95,5	158,9	264,8	476,4
500	165	425	570	850	1,135	1,280	2,130	3,550	6,390	260,0	11,4	29,3	39,3	58,6	78,2	88,3	146,9	244,8	440,6
600	155	400	535	805	1,070	1,205	2,010	3,350	6,025	315,6	10,7	27,6	36,9	55,5	73,8	83,1	138,6	231,0	415,4
650	150	390	520	780	1,040	1,170	1,950	3,250	5,850	343,3	10,3	26,9	35,9	53,8	71,7	80,7	134,5	224,1	403,4
700	145	380	510	765	1,020	1,145	1,910	3,180	5,720	371,1	10,0	26,2	35,2	52,7	70,3	78,9	131,7	219,3	394,4
750	145	375	500	745	995	1,120	1,865	3,110	5,595	398,9	10,0	25,9	34,5	51,4	68,6	77,2	128,6	214,4	385,8
800	140	365	490	735	980	1,100	1,835	3,060	5,505	426,7	9,7	25,2	33,8	50,7	67,6	75,8	126,5	211,0	379,6
850	140	360	480	720	955	1,075	1,795	2,990	5,385	454,4	9,7	24,8	33,1	49,6	65,8	74,1	123,8	206,2	371,3

EF056D NPT ENDS

EF057D SOCKET WELD ENDS



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-2H
6	Gland Bolt Studs	AISI-410
7	Gland Flange	A105
8	Packing Gland	AISI-410
9	Packing	Graphite
10	Stem	ASTM 479-TP410
11	Bolts	A193-B7
12	Bonnet	A105N
13	Gasket	F316L + Graphite
14	Wedge	AISI-410
15	Seat	AISI-410 + Stellite
16	Body	A105N

- **SIZES 1/4" THRU 2"**
- **FORGED STEEL**
- **ASTM A105N**

Design construction:
 API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	mm	6	10	15	20	25	32	40	50
A	inch	3.15	3.15	3.54	4.33	5	5	5.28	6
	mm	80	80	90	110	127	127	134	152
B open	inch	5.98	5.98	6.22	7.72	8.86	10.04	11.42	14.09
	mm	152	152	158	196	225	255	290	358
C	inch	3.46	3.46	3.46	3.82	5.43	5.43	5.43	6.77
	mm	88	88	88	97	138	138	138	172
F	inch	.31	.38	.55	.71	.94	1.18	1.48	1.83
	mm	8	9.6	14	18	24	30	36.5	46.5
G	inch	1.26	1.26	1.50	1.89	2.20	2.52	3.07	3.35
	mm	32	32	38	48	56	64	78	85
Typical CV Factors		2	5	12	23	43	51	98	197
Weight	lb.	4.5	4.5	5	8.25	13	16.25	18.3	27.5
	kg	2.1	2.1	2.3	3.7	5.9	7.4	8.3	12.5
PACKING		BH2	BH2	BH2	BH4	BH5	BH6	BY5	BH8
GASKET		G2	G2	G2	G3	G4	G6	G11	G10

PRESSURE-TEMPERATURE RATINGS

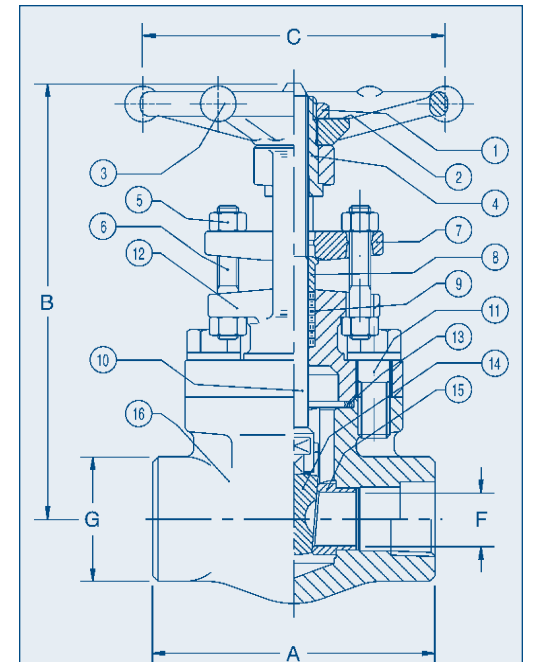
PSI - °F	MATERIALS: ASTM A182 F22 CL3 (b)										BAR - °C
	STANDARD CLASS										
Temperature °F	150	300	400	600	800	900	1500	2500	4500		
-20 to 100	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250		
200	260	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250		
300	230	730	970	1,455	1,940	2,185	3,640	6,070	10,925		
400	200	705	940	1,410	1,880	2,115	3,530	5,880	10,585		
500	170	665	885	1,330	1,775	1,995	3,325	5,540	9,965		
600	140	605	805	1,210	1,615	1,815	3,025	5,040	9,070		
650	125	590	785	1,175	1,570	1,765	2,940	4,905	8,825		
700	110	570	755	1,135	1,515	1,705	2,840	4,730	8,515		
750	95	530	710	1,065	1,420	1,595	2,660	4,430	7,970		
800	80	510	675	1,015	1,355	1,525	2,540	4,230	7,610		
850	65	485	650	975	1,300	1,460	2,435	4,060	7,305		
900	50	450	600	900	1,200	1,350	2,245	3,745	6,740		
950	35	375	505	755	1,005	1,130	1,885	3,145	5,665		
1000	20	260	345	520	695	780	1,305	2,170	3,910		
1050	20	175	235	350	465	525	875	1,455	2,625		
1100	20	110	145	220	295	330	550	915	1,645		
1150	20	70	90	135	180	205	345	570	1,030		
1200	20	40	55	80	110	125	205	345	615		
SPECIAL CLASS											
Temperature °F	150	300	400	600	800	900	1500	2500	4500		
-20 to 100	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250		
200	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250		
300	285	740	990	1,485	1,980	2,225	3,705	6,180	11,120		
400	280	725	965	1,450	1,935	2,175	3,620	6,035	10,865		
500	275	720	960	1,440	1,920	2,160	3,600	6,000	10,800		
600	275	720	960	1,440	1,920	2,160	3,600	6,000	10,800		
650	275	715	955	1,430	1,905	2,145	3,580	5,965	10,735		
700	275	710	955	1,425	1,900	2,135	3,555	5,930	10,670		
750	265	690	920	1,380	1,840	2,070	3,450	5,750	10,350		
800	260	675	895	1,345	1,795	2,020	3,365	5,605	10,095		
850	245	645	855	1,285	1,715	1,930	3,215	5,355	9,645		
900	230	600	800	1,200	1,600	1,800	3,000	5,000	9,000		
950	180	470	630	945	1,260	1,415	2,355	3,930	7,070		
1000	125	325	435	650	865	975	1,630	2,715	4,885		
1050	85	220	290	435	580	655	1,095	1,820	3,280		
1100	55	135	185	275	365	410	685	1,145	2,055		
1150	35	85	115	170	225	255	430	715	1,285		
1200	25	50	70	105	140	155	255	430	770		
SPECIAL CLASS											
Temperature °C	150	300	400	600	800	900	1500	2500	4500		
-29 +38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7		
93,3	17,9	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7		
148,9	15,9	50,3	66,9	100,3	133,7	150,7	251,0	418,5	753,3		
204,4	13,8	48,6	64,8	97,2	129,6	145,8	243,4	405,4	729,8		
260,0	11,7	45,9	61,0	91,7	122,4	137,6	229,3	382,0	687,1		
315,6	9,7	41,7	55,5	83,4	111,3	125,1	208,6	347,5	625,4		
343,3	8,6	40,7	54,1	81,0	108,2	121,7	202,7	338,2	608,5		
371,1	7,6	39,3	52,1	78,3	104,4	117,6	195,8	326,1	587,1		
398,9	6,6	36,5	49,0	73,4	97,9	110,0	183,4	305,4	549,5		
426,7	5,5	35,2	46,5	70,0	86,5	105,1	175,1	291,7	524,7		
454,4	4,5	33,4	44,8	67,2	89,6	100,7	167,9	279,9	503,7		
482,2	3,4	31,0	41,4	62,1	82,7	93,1	154,8	258,2	464,7		
510,0	2,4	25,9	34,8	52,1	69,3	77,9	130,0	216,8	390,6		
537,8	1,4	17,9	23,8	35,9	48,0	53,8	90,0	149,6	269,6		
565,6	1,4	12,1	16,2	24,1	32,1	36,2	60,3	100,3	181,0		
593,3	1,4	7,6	10,0	15,2	20,3	22,8	37,9	63,1	113,4		
621,1	1,4	4,8	6,2	9,3	12,4	14,1	23,8	39,3	71,0		
648,9	1,4	2,8	3,8	5,5	7,6	8,6	14,1	23,8	42,4		

PRESSURE-TEMPERATURE RATINGS

PSI - °F		MATERIALS: ASTM A105 N (a) - ASTM A350 LF2 (a)								BAR - °C									
STANDARD CLASS																			
Temperature °F	150	300	400	600	800	900	1500	2500	4500	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-20 to 100	285	740	990	1,480	1,975	2,220	3,705	6,170	11,110	-29 + 38	19,7	51,0	68,3	102,0	136,2	153,1	255,5	425,4	766,0
200	260	675	900	1,350	1,800	2,025	3,375	5,625	10,120	93,3	17,9	46,5	62,1	93,1	124,1	139,6	232,7	387,8	697,8
300	230	655	875	1,315	1,750	1,970	3,280	5,470	9,845	148,9	15,9	45,2	60,3	90,7	120,7	135,8	226,2	377,2	678,8
400	200	635	845	1,270	1,690	1,900	3,170	5,280	9,505	204,4	13,8	43,8	58,3	87,6	116,5	131,0	218,6	364,1	655,4
500	170	600	800	1,200	1,595	1,795	2,995	4,990	8,980	260,0	11,7	41,4	55,2	82,7	110,0	123,8	206,5	344,1	619,2
600	140	550	730	1,095	1,460	1,640	2,735	4,560	8,210	315,6	9,7	37,9	50,3	75,5	100,7	113,1	188,6	314,4	566,1
650	125	535	715	1,075	1,430	1,610	2,685	4,475	8,055	343,3	8,6	36,9	49,3	74,1	98,6	111,0	185,1	308,6	555,4
700	110	535	710	1,065	1,420	1,600	2,665	4,440	7,990	371,1	7,6	36,9	49,0	73,4	97,9	110,3	183,8	306,1	550,9
750	95	505	670	1,010	1,345	1,510	2,520	4,200	7,560	398,9	6,6	34,8	46,2	69,6	92,7	104,1	173,8	289,6	521,3
800	80	410	550	825	1,100	1,235	2,060	3,430	6,170	426,7	5,5	28,3	37,9	56,9	75,8	85,2	142,0	236,5	425,4
850	65	270	355	535	715	805	1,340	2,230	4,010	454,4	4,5	18,6	24,5	36,9	49,3	55,5	92,4	153,8	276,5
900	50	170	230	345	460	515	860	1,430	2,570	482,2	3,4	11,7	15,9	23,8	31,7	35,5	59,3	98,6	177,2
950	35	105	140	205	275	310	515	860	1,545	510,0	2,4	7,2	9,7	14,1	19,0	21,4	35,5	59,3	106,5
1000	20	50	70	105	140	155	260	430	770	537,8	1,4	3,4	4,8	7,2	9,6	10,7	17,9	29,6	53,1
SPECIAL CLASS																			
Temperature °F	150	300	400	600	800	900	1500	2500	4500	Temperature °C	150	300	400	600	800	900	1500	2500	4500
-20 to 100	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250	-29 + 38	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
200	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250	93,3	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
300	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250	148,9	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
400	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250	204,4	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
500	290	750	1,000	1,500	2,000	2,250	3,750	6,250	11,250	260,0	20,0	51,7	69,0	103,4	137,9	155,1	258,6	430,9	775,7
600	275	715	950	1,425	1,900	2,140	3,565	5,940	10,690	315,6	19,0	49,3	65,5	98,3	131,0	147,6	245,8	409,6	737,1
650	270	700	935	1,400	1,865	2,100	3,495	5,825	10,485	343,3	18,6	48,3	64,5	96,5	128,6	144,8	241,0	401,6	722,9
700	265	695	925	1,390	1,850	2,080	3,470	5,780	10,405	371,1	18,3	47,9	63,8	95,8	127,5	143,4	239,3	398,5	717,4
750	240	630	840	1,260	1,680	1,890	3,150	5,250	9,450	398,9	16,5	43,4	57,9	86,9	115,8	130,3	217,2	362,0	651,6
800	200	515	685	1,030	1,375	1,545	2,570	4,285	7,715	426,7	13,8	35,5	47,2	71,0	94,8	106,5	177,2	295,5	531,9
850	130	335	445	670	895	1,005	1,670	2,785	5,015	454,4	9,0	23,1	30,7	46,2	61,7	69,3	115,1	192,0	345,8
900	85	215	285	430	575	645	1,070	1,785	3,215	482,2	5,9	14,8	19,7	29,6	39,6	44,5	73,8	123,1	221,7
950	50	130	170	260	345	385	645	1,070	1,930	510,0	3,4	9,0	11,7	17,9	23,8	26,5	44,5	73,8	133,1
1000	25	65	85	130	175	195	320	535	965	537,8	1,7	4,5	5,9	9,0	12,1	13,4	22,1	36,9	66,5

ES56A NPT ENDS

ES57A SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- STAINLESS STEEL
- ASTM A182 Gr. F316/F316L

Design construction:
 API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - stainless steel class 800 1920 psig @ 100°F
 132,4 bar + 38°C

MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-GR.8
6	Gland Bolt Studs	A193-B8
7	Gland Flange	A182 F316
8	Packing Gland	AISI-316L
9	Packing	Graphite
10	Stem	A182 F316
11	Bolts	A193-B8
12	Bonnet	A182 F316/F316L
13	Gasket	F316L + Graphite
14	Wedge	F316
15	Seat	F316 + Stellite
16	Body	A182 F316/F316L

DIMENSIONAL SPECIFICATIONS						
SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	3.15 80	3.54 90	4.33 110	5 127	5.28 134
B open	inch mm	5.98 152	6.22 158	7.72 196	10.04 225	11.42 290
C	inch mm	3.46 88	3.46 88	3.82 97	5.43 138	5.43 138
F	inch mm	.38 9,6	.55 14	.71 18	1.18 30	1.48 36,5
G	inch mm	1.26 32	1.50 38	1.89 48	2.52 64	3.07 78
Typical CV Factors		5.6	11	25.5	77	97
Weight	lb. kg	4.25 1,9	5 2,3	7.75 3,6	16 7,3	16.75 7,6
PACKING		BH2	BH2	BH4	BH6	BY5
GASKET		G2	G2	G3	G6	G11

RP&G Valve GATE VALVES - CLASS 800

ESWB56A NPT ENDS

ESWB57A SOCKET WELD ENDS

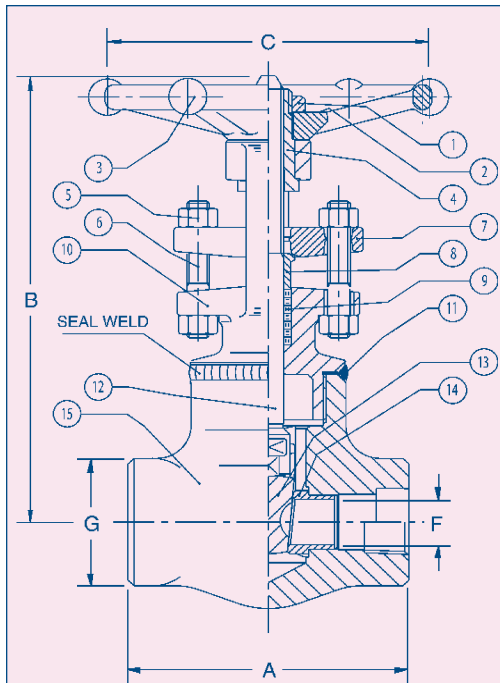


- SIZES 1/2" THRU 2"
- STAINLESS STEEL
- ASTM A182 Gr. F316/F316L

Design construction:
 API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - stainless steel class 800 1920 psig @ 100°F
 132,4 bar + 38°C

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5	5
	mm	80	90	110	127	127
B open	inch	5.98	6.22	7.72	10.04	11.42
	mm	152	158	196	225	290
C	inch	3.46	3.46	3.82	5.43	5.43
	mm	88	88	97	138	138
F	inch	.38	.55	.71	1.18	1.44
	mm	9.6	14	18	30	36.6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		5.6	11	25.5	77	97
Weight	lb.	3.5	3.75	6.25	13.25	18
	kg	1.6	1.8	2.9	6.1	8.2
PACKING		BH2	BH2	BH4	BH6	BY5



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-GR.8
6	Gland Bolt Studs	A194-GR.8
7	Gland Flange	A182 F316
8	Packing Gland	A182 F316L
9	Packing	Graphite
10	Bonnet	A182 F316/F316L
11	Weld	ASME IX
12	Stem	A182 F316
13	Wedge	A182 F316
14	Seat	F316 + Stellite
15	Body	A182 F316/F316L

RP&G Valve

EXTENDED BODY GATE VALVES - CLASS 800

EFWB48D LIP END X FEMALE NPT

EFWB49D LIP END X FEMALE SOCKET WELD

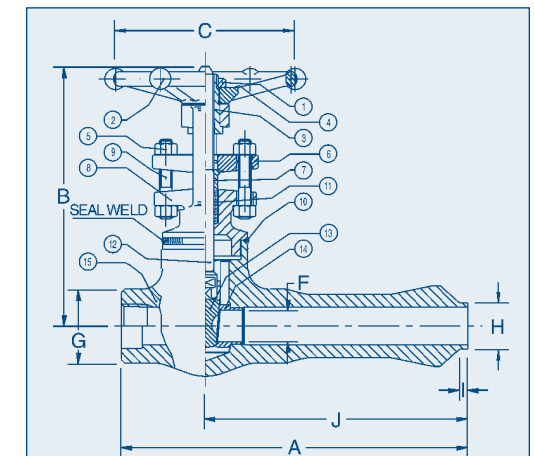


- INTEGRALLY REINFORCED MALE END
- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 API 602 - ASME B16.34
 Testing according to API 598
 Marking MSS SP25
 Integral extended body
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral wound gasket
 Body-bonnet weld to ASME IX
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Ratings:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	8.15	8.60	9.62	10.37	10.53
	mm	207	218,5	244,5	263,5	267,5
B open	inch	5.98	6.22	7.72	10.04	11.42
	mm	152	158	196	255	290
C	inch	3.46	3.46	3.82	5.43	5.43
	mm	88	88	97	138	138
F	inch	.38	.55	.71	1.18	1.44
	mm	9,6	14	18	30	36,6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
H	inch	.69	.87	1.12	1.61	1.81
	mm	17,5	22	28,5	41	46
I	inch	.16	.19	.19	.25	.31
	mm	4	4,8	4,8	6,3	8
J	inch	6.57	6.81	7.48	7.87	8.03
	mm	167	173	190	200	204
Weight	lb.	5	6.25	9.5	19.5	25.75
	kg	2,3	2,9	4,3	8,8	11,7
PACKING		BH2	BH2	BH4	BH6	BY5



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Hand Wheel	Carbon Steel
3	Yoke Sleeve	AISI 416
4	Name Plate	Aluminum
5	Gland Nuts	A194-2H
6	Gland Flange	A105
7	Packing Gland	AISI 410
8	Bonnet	A105N
9	Gland Studs	AISI 410
10	Weld	ASME IX
11	Packing	Graphite
12	Stem	AISI 410
13	Wedge	AISI 410
14	Seat Rings	AISI 410 + Stellite
15	Body	A105N

RP&C Valve EXTENDED BODY GATE VALVES - CLASS 800

EFWB51D MALE X FEMALE NPT ENDS

EFWB52D MALE X FEMALE SOCKET WELD ENDS

EFWB53D MALE NPT X FEMALE SOCKET WELD ENDS

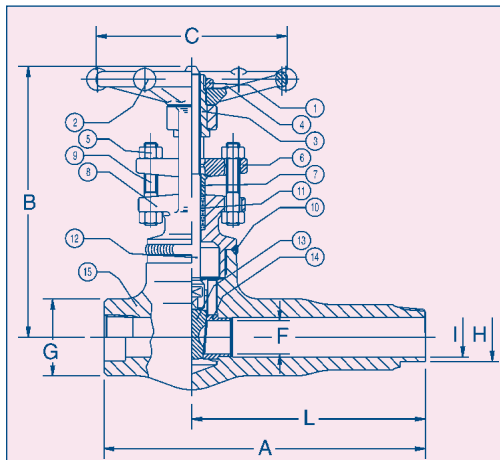
EFWB54D MALE SOCKET WELD X FEMALE NPT ENDS

- SIZES 1/2" THRU 2"
NOTE: 1/2" MALE THREADS ARE NOT COVERED BY API 602
- FORGED STEEL
- ASTM A105N

Design construction:

API 602 - ASME B16.34
Testing according to API 598
Marking MSS SP25
Integral extended body
Outside Screw and Yoke (OS&Y)
Self aligning two piece packing gland
Spiral wound gasket
Integral backseat
Socket Weld Ends to ASME B16.11
Screwed Ends (NPT) to ASME B1.20.1

Ratings:
- carbon steel class 800 1975 psig @ 100°F
136,2 bar + 38°C



MATERIALS OF CONSTRUCTION

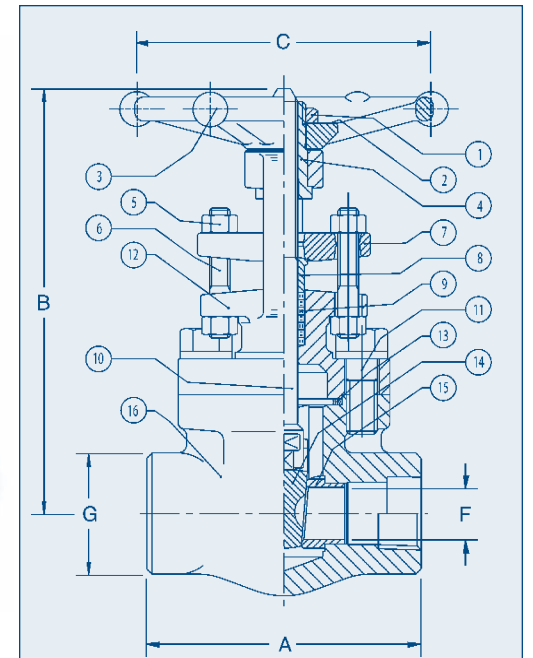
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Hand Wheel	Carbon Steel
3	Yoke Sleeve	AISI 416
4	Name Plate	Aluminum
5	Gland Nuts	A194-2H
6	Gland Flange	A105
7	Packing Gland	AISI 410
8	Bonnet	A105N
9	Gland Studs	AISI 410
10	Weld	ASME IX
11	Packing	Graphite
12	Stem	AISI 410
13	Wedge	AISI 410
14	Seat Rings	AISI 410 + Stellite
15	Body	A105N

DIMENSIONAL SPECIFICATIONS						
SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	5.57 141,5	5.77 146,5	6.53 166	7.50 190,5	8.50 216
B open	inch mm	5.98 152	6.14 156	7.72 196	10.08 256	11.42 290
C	inch mm	3.46 88	3.46 88	3.82 97	5.43 138	5.43 138
F	inch mm	.38 9,6	.55 14	.71 18	1.18 30	1.44 36,6
G	inch mm	1.26 32	1.50 38	1.89 48	2.52 64	3.07 78
H	inch mm	.84 21,3	1.05 26,7	1.31 33,4	1.90 48,3	2.37 60,3
I	inch mm	.51 13	.63 16	.83 21	1.34 34	1.65 42
L	inch mm	4.01 102	4.01 102	4.37 111	5 127	6.02 153
Weight	lb. kg	3.75 1,7	4.5 2,1	7 3,2	15.75 7,2	22.75 10,3
PACKING		BH2	BH2	BH4	BH6	BY5

RP&C Valve GATE VALVES - CLASS 1500

EF556E NPT ENDS

EF557E SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:

API 602 - ASME B16.34 - BS 5352
Testing according to API 598
Marking MSS SP25
Outside Screw and Yoke (OS&Y)
Self aligning two piece packing gland
Spiral-wound gasket
Integral backseat

Socket Weld Ends to ASME B16.11
Screwed Ends (NPT) to ASME B1.20.1

Rating:
- carbon steel class 1500 3705 psig @ 100°F
255,5 bar + 38°C

MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-2H
6	Gland Bolt Studs	AISI-410
7	Gland Flange	A105
8	Packing Gland	AISI-410
9	Packing	Graphite
10	Stem	ASTM 479-TP410
11	Bolts	A193-B7
12	Bonnet	A105N
13	Gasket	F316L + Graphite
14	Wedge	AISI-410 + Stellite
15	Seat	AISI-410 + Stellite
16	Body	A105N

DIMENSIONAL SPECIFICATIONS

SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	3.54 90	4.33 110	5 127	5 127	8.27 210
B open	inch mm	5.98 152	7.48 190	8.66 220	11.10 282	13.58 345
C	inch mm	3.46 88	3.82 97	5.43 138	5.43 138	5.43 138
F	inch mm	.38 9,6	.55 14	.71 18	1.18 30	1.48 36,5
G	inch mm	1.50 38	1.89 48	2.20 56	3.07 78	3.35 85
Typical CV Factors		5.3	11	21.5	77	97
Weight	lb. kg	5.25 2,4	8.5 3,9	13.25 6,1	23.75 10,8	45.25 20,5
PACKING		BH3	BH5	BH6	2B5	BH8
GASKET		G1	G2	G3	G5	G7

RP&C Valve GATE VALVES - CLASS 1500

EFWB556E NPT ENDS

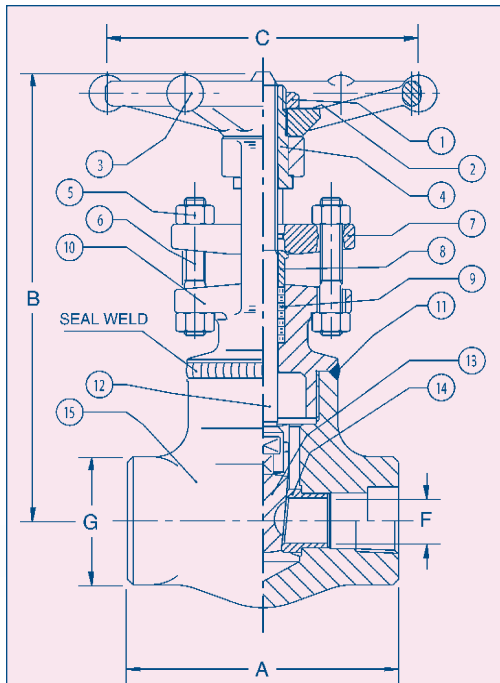
EFWB557E SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:

API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 1500 3705 psig @ 100°F
 255,5 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI-416
5	Gland Nut	A194-2H
6	Gland Bolt Studs	AISI-410
7	Gland Flange	A105
8	Packing Gland	AISI-410
9	Packing	Graphite
10	Bonnet	A105N
11	Weld	ASME IX
12	Stem	AISI-410
13	Wedge	AISI-410 + Stellite
14	Seat	AISI-410 + Stellite
15	Body	A105N

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.54	4.33	5	5	8.27
	mm	90	110	127	127	210
B open	inch	6.02	7.48	8.66	11.10	13.58
	mm	153	190	220	282	345
C	inch	3.46	3.82	5.43	5.43	5.43
	mm	88	97	138	138	138
F	inch	.38	.55	.71	1.18	1.44
	mm	9.6	14	18	30	36.6
G	inch	1.50	1.89	2.20	3.07	3.35
	mm	38	48	56	78	85
Typical CV Factors		5.3	11	21.5	77	97
Weight	lb.	4.25	7.25	11.5	21.5	40.25
	kg	2	3.3	5.3	9.8	18.3
PACKING		BH3	BH5	BH6	2B5	BH8

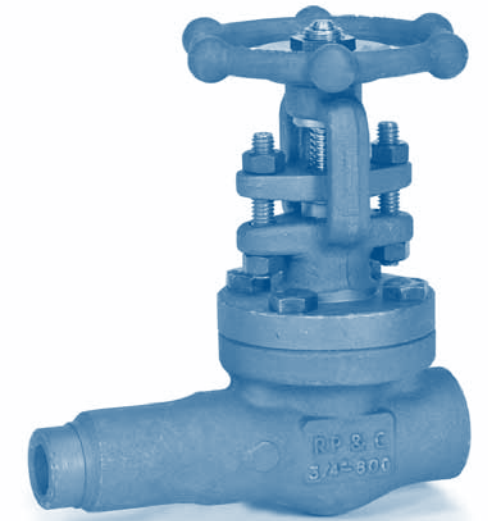
RP&C Valve EXTENDED BODY GATE VALVES - CLASS 800

EF51D MALE X FEMALE NPT ENDS

EF52D MALE X FEMALE SOCKET WELD ENDS

EF53D MALE NPT X FEMALE SOCKET WELD ENDS

EF54D MALE SOCKET WELD X FEMALE NPT ENDS



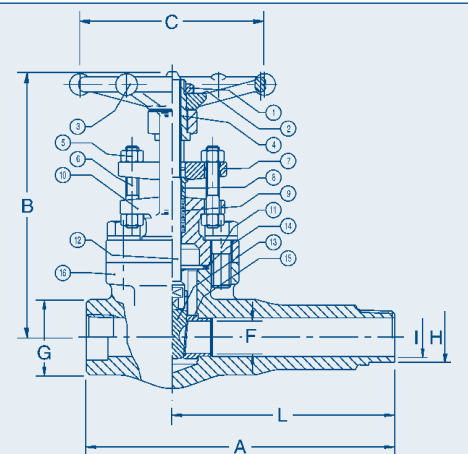
- SIZES 1/2" THRU 2"
 NOTE: MALE THREADED ENDS IN NPS 1/2" IN CLASS
 800 LB. NOT PERMITTED BY API 602
- FORGED STEEL
- ASTM A105N

Design construction:

API 602 - ASME B16.34
 Testing according to API 598
 Marking MSS SP25
 Integral extended body
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral wound gasket
 Integral backseat
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Ratings:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	5.57	5.77	6.53	7.50	8.50
	mm	141,5	146,5	166	190,5	216
B open	inch	5.98	6.14	7.72	10.08	11.42
	mm	152	156	196	256	290
C	inch	3.46	3.46	3.82	5.43	5.43
	mm	88	88	97	138	138
F	inch	.38	.55	.71	1.18	1.44
	mm	9.6	14	18	30	36.6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
H	inch	.84	1.05	1.31	1.90	2.37
	mm	21,3	26,7	33,4	48,3	60,3
I	inch	.51	.63	.83	1.34	1.65
	mm	13	16	21	34	42
L	inch	4.01	4.01	4.37	5	6.02
	mm	102	102	111	127	153
Weight	lb.	5.25	5.75	9.25	17.75	26
	kg	2,4	2,6	4,2	8,1	11,8
PACKING		BH2	BH2	BH4	BH6	BY5
GASKET		G2	G2	G3	G6	G7



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Name Plate	Aluminum
3	Hand Wheel	Carbon Steel
4	Yoke Sleeve	AISI 416
5	Gland Nuts	A194-2H
6	Gland Bolt Studs	AISI 410
7	Gland Flange	A105
8	Packing Gland	AISI 410
9	Packing	Graphite
10	Bonnet	A105N
11	Bolts	A193 B7
12	Stem	AISI 410
13	Wedge	AISI 410
14	Gasket	F316L + Graphite
15	Seat	AISI 410 + Stellite
16	Body	A105N

RP&C Valve PISTON INTEGRAL FLANGED CHECK VALVES

F190D CLASS 150

F390D CLASS 300

F690D CLASS 600



- SIZES 1/2" THRU 2"
- FORGED STEEL
- PISTON CHECK VALVES
- ASTM A105N

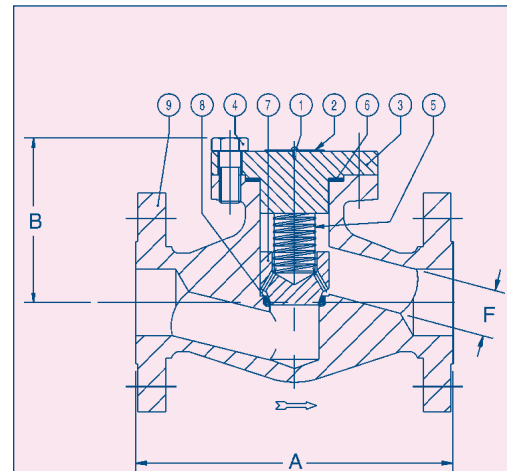
Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spiral-wound gasket
 Integral body flanges
 Face to face according to ASME B16.10
 125-250 AARH serrated spiral finish
 Flanges according to ASME B16.5
 Ratings:
 - carbon steel class 150 285 psig @ 100°F
 20 bar + 38°C
 - carbon steel class 300 740 psig @ 100°F
 51 bar + 38°C
 - carbon steel class 600 1480 psig @ 100°F
 102 bar + 38°C

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	4.25	4.62	5	6.5	8	
	mm	108	117,5	127	165	203	
B	inch	2.95	2.95	3.35	4.33	4.92	
	mm	75	75	85	110	125	
F	inch	.35	.51	.68	1.16	1.38	
	mm	9	13	17,5	29,5	35	
Weight	lb.	5	6.75	9.75	18.5	30.75	
	kg	2,3	3,1	4,5	8,4	14	
Typical CV Factors		1	2.8	5.5	13.2	16	
Gasket		G2	G2	G3	G5	G8	

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	6	7	8*	9.02*	10.51	
	mm	152,5	178	203*	229*	267	
B	inch	2.95	3.15	3.46	4.53	5.12	
	mm	75	80	88	115	130	
F	inch	.35	.51	.68	1.16	1.38	
	mm	9	13	17,5	29,5	35	
Weight	lb.	7.5	11.5	16.5	30.75	41.75	
	kg	3,4	5,3	7,5	14	19	
Typical CV Factors		1	2.8	5.5	13.2	16	
Gasket		G2	G2	G3	G6	G7	

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	6.5	7.51	8.5	9.5	11.5	
	mm	165	191	216	241	292	
B	inch	2.83	3.15	3.35	4.53	5.12	
	mm	72	80	85	115	130	
F	inch	.35	.51	.68	1.16	1.38	
	mm	9	13	17,5	29,5	35	
Weight	lb.	7.5	12.5	17.5	31.75	43	
	kg	3,5	5,7	8	14,5	19,5	
Typical CV Factors		1	2.8	5.5	13.2	16	
Gasket		G2	G2	G3	G6	G7	

* Spring will be available upon request



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	Bonnet	A105N
4	B/B Bolts	A193 B7
5	Spring	* 316
6	B/B Gasket	F316L + Graphite
7	Disc	AISI 410
8	Integral Seat	Stellite
9	Body	A105N

RP&C Valve GLOBE VALVES - CLASS 800

F80D NPT ENDS

F81D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	3.15	3.54	4.33	6	7.09	
	mm	80	90	110	150	180	
B open	inch	6.54	6.73	8.39	10.16	11.81	
	mm	166	171	213	258	300	
C	inch	3.46	3.46	3.82	5.43	6.77	
	mm	88	88	97	138	172	
F	inch	.35	.51	.69	1.16	1.38	
	mm	9	13	17,5	29,5	35	
G	inch	1.26	1.50	1.89	2.52	3.07	
	mm	32	38	48	64	78	
Typical CV Factors		1.5	3.9	6.5	16.5	23.5	
Weight	lb.	4.5	5	8	16.25	26.25	
	kg	2,1	2,3	3,7	7,4	11,9	
PACKING		BH3	BH3	BH5	BY5	BY7	
GASKET		G2	G2	G3	G6	G7	

MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	AISI-410
8	Gland Nut	A194-2H
9	Gland Flange	A105
10	Gland Bolt Stud	AISI-410
11	Packing Gland	AISI-410
12	Packing	Graphite
13	Bonnet	A105N
14	Bolts	A193-B7
15	Gasket	F316L + Graphite
16	Wire Connection	316
17	Disc	AISI-410
18	Integral Seat	Stellite
19	Body	A105N

RP&C Valve GLOBE VALVES - CLASS 800

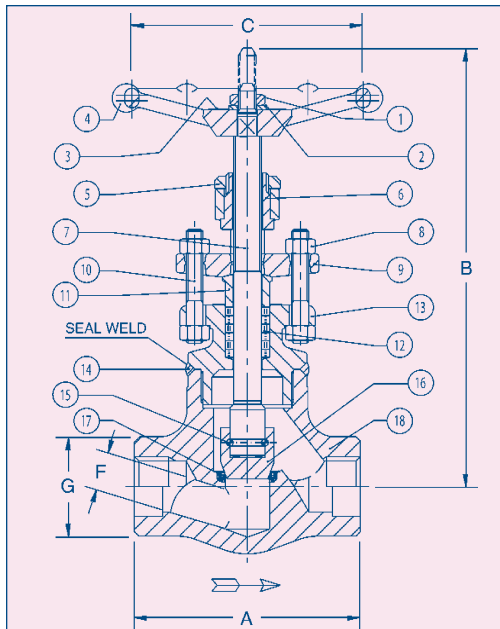
FWB80D NPT ENDS

FWB81D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	AISI-410
8	Gland Nut	A194-2H
9	Gland Flange	A105N
10	Gland Bolt Stud	AISI-410
11	Packing Gland	AISI-410
12	Packing	Graphite
13	Bonnet	A105N
14	Weld	SECT IX
15	Wire Connection	316
16	Disc	AISI-410
17	Integral Seat	Stellite
18	Body	A105N

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	6	7.09
	mm	80	90	110	150	180
B open	inch	6.54	6.73	8.39	10.12	11.81
	mm	166	171	213	258	300
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.69	1.16	1.38
	mm	9	13	17,5	29,5	35
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		1.5	3.9	6.5	16.5	23.5
Weight	lb.	3.75	4.25	6.5	14.5	22.75
	kg	1,7	2	3	6,6	10,4
PACKING		BH3	BH3	BH5	BY5	BY7

RP&C Valve

INTEGRAL FLANGED GLOBE VALVES

F180D CLASS 150

F380D CLASS 300

F680D CLASS 600



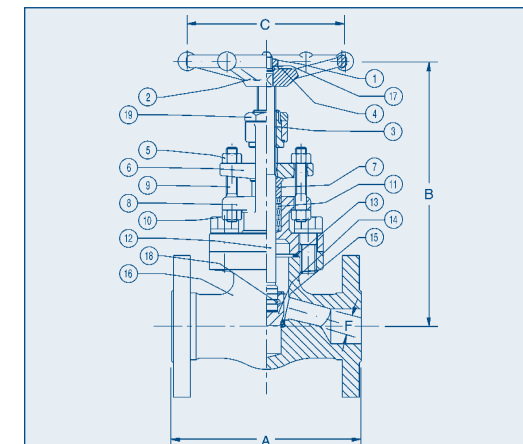
- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Loose disc stem assembly
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Integral body flanges
 Face to face according to ASME B16.10
 125-250 AARH serrated spiral finish
 Flanges according to ASME B16.5
Ratings:
 - carbon steel class 150 285 psig @ 100°F
 20 bar + 38°C
 - carbon steel class 300 740 psig @ 100°F
 51 bar + 38°C
 - carbon steel class 600 1480 psig @ 100°F
 102 bar + 38°C

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	4.25	4.62	5	6.5	8
	mm	108	117,5	127	165	203
B open	inch	7.72	7.72	8.9	10.75	11.81
	mm	196	196	226	273	300
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.68	1.16	1.38
	mm	9	13	17,5	29,5	35
Typical CV Factors		1.3	3.9	7.1	17.5	21.4
Weight	lb.	6.5	8.25	12	22.5	34.75
	kg	3	3,8	5,5	10,3	15,8
PACKING		BH3	BH3	BH5	BY5	BY7
GASKET		G2	G2	G3	G5	G8

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	6	7	8	9.02	10.51
	mm	152,5	178	203	229	267
B open	inch	7.72	7.95	8.9	10.63	12.64
	mm	196	202	226	270	321
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.68	1.16	1.38
	mm	9	13	17,5	29,5	35
Typical CV Factors		1.3	3.9	7.1	17.5	21.4
Weight	lb.	9	13	18.25	36.25	47.25
	kg	4,1	6	8,3	15,5	21,5
PACKING		BH3	BH3	BH5	BY5	BY7
GASKET		G2	G2	G3	G6	G7

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	6.50	7.51	8.50	9.50	11.50
	mm	165	191	216	241	292
B open	inch	7.72	7.95	9.21	10.63	12.64
	mm	196	202	234	270	321
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.67	1.16	1.38
	mm	9	13	17,5	29,5	35
Typical CV Factors		1.3	3.9	7.1	17.5	21.4
Weight	lb.	9.5	13.5	19	36.25	52
	kg	4,4	6,2	8,7	16,5	23,6
PACKING		BH3	BH3	BH5	BY5	BY7
GASKET		G2	G2	G3	G6	G7



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Handwheel	Carbon Steel
3	Yoke Sleeve	AISI 416
4	Name Plate	Aluminum
5	Gland Nuts	A194-2H
6	Gland Flange	A105
7	Packing Gland	AISI 410
8	Bonnet	A105N
9	Gland Studs	AISI 410
10	B/B Bolts	A193 B7
11	Packing	Graphite
12	Stem	AISI 410
13	B/B Gasket	F316L + Graphite
14	Disc	AISI 410
15	Integral Seat	Stellite
16	Body	A105N
17	Washer	Carbon Steel
18	Connection Wire	316
19	Yoke Nut	Carbon Steel

RP&C Valve INTEGRAL FLANGED GATE VALVES



EF158D CLASS 150

EF308D CLASS 300

EF608D CLASS 600

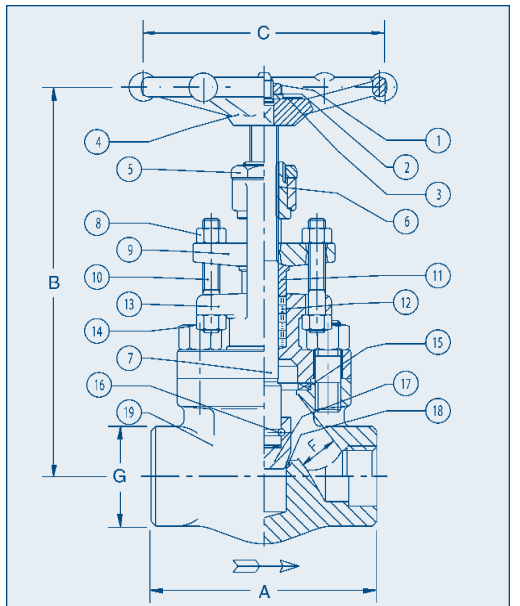
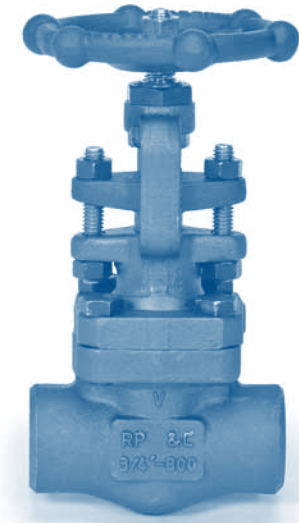
- SIZES 1/2" THRU 3" (EF158D)
- SIZES 1/2" THRU 2" (EF308D, EF608D)
- FORGED STEEL
- ASTM A105N

Design construction:
 API 602 - ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Integral body flanges
 Face to face according to ASME B16.10
 125-250 AARH serrated spiral finish
 Flanges according to ASME B16.5
Ratings:
 - carbon steel class 150 285 psig @ 100°F
 20 bar + 38°C
 - carbon steel class 300 740 psig @ 100°F
 51 bar + 38°C
 - carbon steel class 600 1480 psig @ 100°F
 102 bar + 38°C

RP&C Valve GLOBE VALVES - CLASS 800

LF80A NPT ENDS

LF81A SOCKET WELD ENDS



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	A182 F316
8	Gland Nut	A194-2H
9	Gland Flange	A105
10	Gland Bolt Stud	AISI-410
11	Packing Gland	316L
12	Packing	Graphite
13	Bonnet	A350 LF2
14	Bolts	A320-L7
15	Gasket	F316L + Graphite
16	Wire Connection	316
17	Disc	A182 F316
18	Integral Seat	Stellite
19	Body	A350 LF2

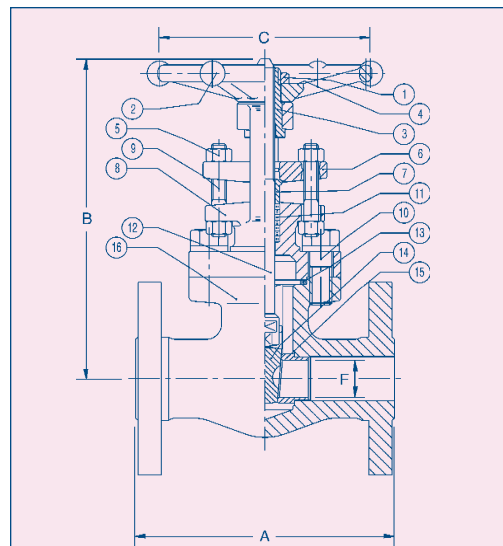
- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A350 LF2

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	3
	mm	15	20	25	40	50	75
A	inch	4.25	4.62	5	6.50	7	8
	mm	108	117,5	127	165	178	203
B open	inch	6.88	7.16	8.35	10.04	11.41	13.58
	mm	175	182	212	255	290	345
C	inch	3.46	3.46	3.82	5.43	5.43	6.77
	mm	88	88	97	138	138	172
F	inch	.38	.55	.71	1.18	1.44	1.89
	mm	9,6	14	18	30	36,6	48
Typical CV Factors		6.3	10	25.6	67.5	-	97
Weight	lb.	6.25	8	11.25	21	29	46.75
	kg	2,9	3,7	5,2	9,6	13,2	21,2
PACKING		BH2	BH2	BH4	BH6	BY5	BH8
GASKET		G2	G2	G3	G5	G7	G8

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	5.51	6	6.50	7.51	8.5	
	mm	140	152,5	165	191	216	
B open	inch	6.89	7.17	8.35	9.84	11.42	
	mm	175	182	212	250	290	
C	inch	3.46	3.46	3.82	5.43	5.43	
	mm	88	88	97	138	138	
F	inch	.38	.55	.71	1.18	1.44	
	mm	9,6	14	18	30	36,6	
Typical CV Factors		6.3	10	25.6	67.5	97	
Weight	lb.	7.75	11.25	14.75	28.5	33.5	
	kg	3,6	5,2	6,7	13	15,3	
PACKING		BH2	BH2	BH4	BH6	BY5	
GASKET		G2	G2	G3	G5	G7	

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	6.50	7.51	8.50	9.50	11.50	
	mm	165	191	216	241	292	
B open	inch	6.65	7.28	8.46	10.04	12.01	
	mm	169	185	215	255	305	
C	inch	3.46	3.46	3.82	5.43	5.43	
	mm	88	88	97	138	138	
F	inch	.38	.55	.71	1.18	1.44	
	mm	9,6	14	18	30	36,6	
Typical CV Factors		6.3	10	25.6	67.5	97	
Weight	lb.	9.25	15.25	22	39.5	63.5	
	kg	4,3	7	10	18	28	
PACKING		BH2	BH2	BH4	BH6	BY5	
GASKET		G2	G2	G3	G6	G7	



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Handwheel	Carbon Steel
3	Yoke Sleeve	AISI 416
4	Name Plate	Aluminum
5	Gland Nuts	A194-2H
6	Gland Flange	A105
7	Packing Gland	AISI 410
8	Bonnet	A105N
9	Gland Studs	AISI 410
10	B/B Bolts	A193 B7
11	Packing	Graphite
12	Stem	AISI 410
13	B/B Gasket	F316L + Graphite
14	Wedge	AISI 410
15	Seat Rings	AISI 410 + Stellite
16	Body	A105N

DIMENSIONAL SPECIFICATIONS							
SIZE	inch	1/2	3/4	1	1 1/2	2	
	mm	15	20	25	40	50	
A	inch	3.15	3.54	4.33	6	7.09	
	mm	80	90	110	150	180	
B open	inch	6.54	6.73	8.39	10.16	11.81	
	mm	166	171	213	258	300	
C	inch	3.46	3.46	3.82	5.43	6.77	
	mm	88	88	97	138	172	
F	inch	.35	.51	.69	1.16	1.38	
	mm	9	13	17,5	29,5	35	
G	inch	1.26	1.50	1.89	2.52	3.07	
	mm	32	38	48	64	78	
Typical CV Factors		1.5	3.9	6.5	16.5	23.5	
Weight	lb.	4.5	5	8	16.25	26.25	
	kg	2,1	2,3	3,7	7,4	11,9	
PACKING		BH3	BH3	BH5	BY5	BY7	
GASKET		G2	G2	G3	G6	G7	

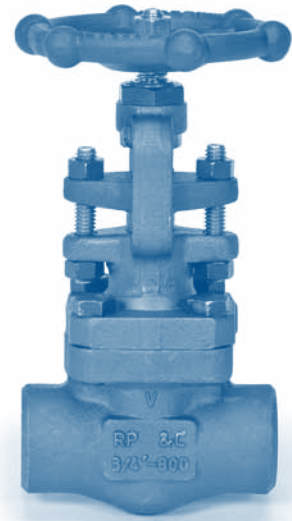
RP&C Valve GLOBE VALVES - CLASS 800

C80D NPT ENDS

C81D SOCKET WELD ENDS

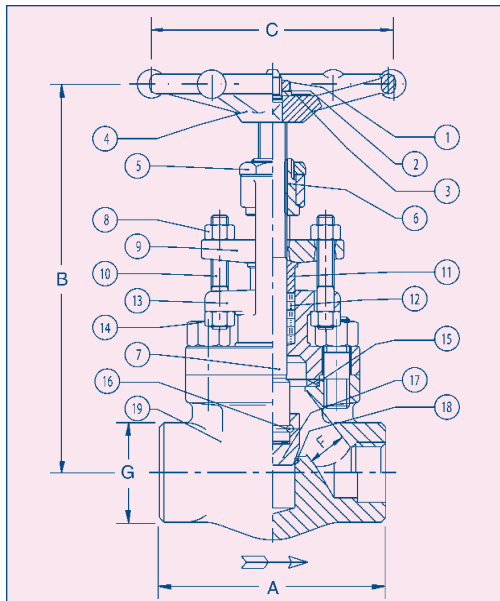
K80D NPT ENDS

K81D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A182 Gr. F5 (C80D & C81D)
- ASTM A182 Gr. F22 Cl. 3 (K80D & K81D)

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - alloy steel class 800 2000 psig @ 100°F
 137,9 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	A479 410
8	Gland Nut	A194-2H
9	Gland Flange	A105
10	Gland Bolt Stud	AISI-410
11	Packing Gland	AISI-410
12	Packing	Graphite
13	Bonnet	A182 F5 or A182 F22
14	Bolts	A193-B16
15	Gasket	F316L + Graphite
16	Wire Connection	316
17	Disc	A479 410
18	Integral Seat	+ Stellite
19	Body	A182 F5 or A182 F22

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	6	7.09
	mm	80	90	110	150	180
B open	inch	6.54	6.73	8.39	10.16	11.81
	mm	166	171	213	258	300
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.69	1.16	1.38
	mm	9	13	17,5	29,5	35
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		1.5	3.9	6.5	16.5	23.5
Weight	lb.	4.5	5	8	16.25	26.25
	kg	2,1	2,3	3,7	7,4	11,9
PACKING		BH3	BH3	BH5	BY5	BY7
GASKET		G2	G2	G3	G6	G7

RP&C Valve SWING CHECK VALVES - CLASS 800

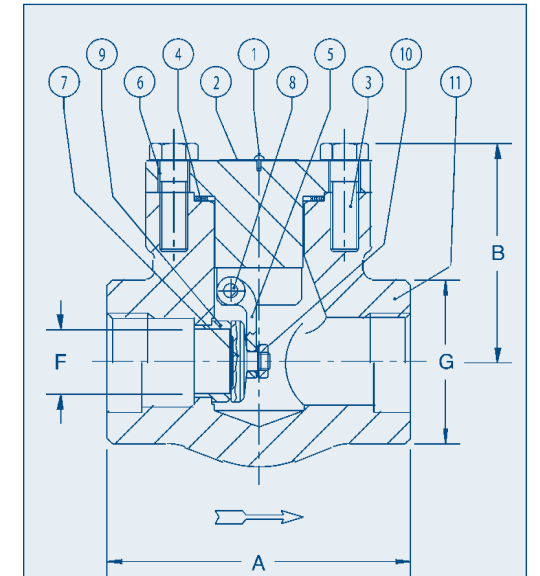
S98A NPT ENDS

S99A SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- STAINLESS STEEL
- SWING CHECK VALVE
- ASTM A182 Gr. F316/F316L

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - stainless steel class 800 1920 psig @ 100°F
 132,4 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	B/B Bolts	A193 B8
4	B/B Gasket	F316L + Graphite
5	Hinge	A182 F316
6	Bonnet	A182 F316/F316L
7	Disc	A182 F316
8	Hinge Pin	F316
9	Seat	A182 F316 + Stellite
10	Disc Nut	A194 GR.8
11	Body	A182 F316/F316L

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5.91	7.09
	mm	80	90	110	150	180
B	inch	2.17	2.36	3.07	3.62	4.25
	mm	55	60	78	92	108
F Swing	inch	.38	.55	.71	1.18	1.44
	mm	9,6	14	18	30	36,6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		2.7	7.5	12.5	34	58
Weight	lb.	2.75	3.5	6.25	12.25	19.75
	kg	1,3	1,6	2,8	5,6	9,0
GASKET		G2	G2	G3	G6	G7

RP&C Valve SWING CHECK VALVES - CLASS 800

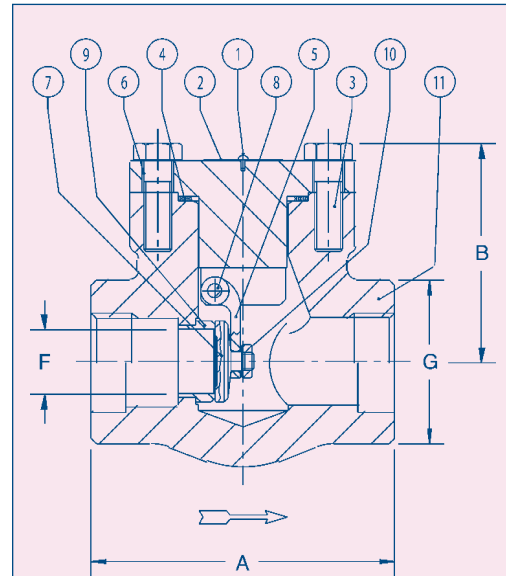
F98D NPT ENDS

F99D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- SWING CHECK VALVE
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	B/B Bolts	A193 B7
4	B/B Gasket	F316 + Graphite
5	Hinge	AISI - 410
6	Bonnet	A105N
7	Disc	AISI - 410
8	Hinge Pin	A479 TP316
9	Seat	AISI - 410 + Stellite
10	Disc Nut	AISI - 410
11	Body	A105N

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5.91	7.09
	mm	80	90	110	150	180
B	inch	2.17	2.36	3.07	3.62	4.25
	mm	55	60	78	92	108
F Swing	inch	.38	.55	.71	1.18	1.44
	mm	9,6	14	18	30	36,6
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		2.7	7.5	12.5	34	58
Weight	lb.	2.75	3.5	6.25	12.25	19.75
	kg	1,3	1,6	2,8	5,6	9,0
GASKET		G2	G2	G3	G6	G7

RP&C Valve

GLOBE VALVES - CLASS 800

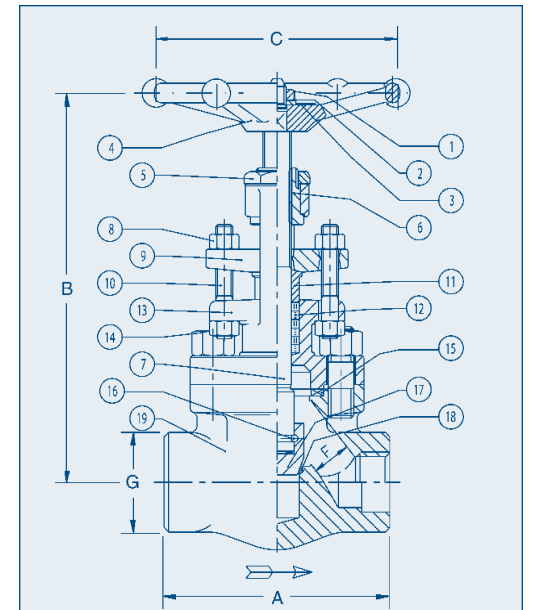
S80A NPT ENDS

S81A SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A182 Gr. F316/F316L

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - stainless steel class 800 1920 psig @ 100°F
 132,4 bar + 38°C



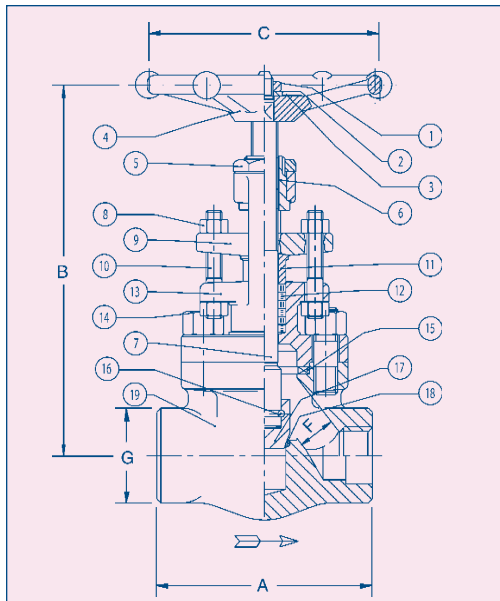
MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	A182 F316
8	Gland Nut	A194-GR.8
9	Gland Flange	A182 F316
10	Gland Bolt Stud	A193 B8
11	Packing Gland	316
12	Packing	Graphite
13	Bonnet	A182 F316/F316L
14	Bolts	A193 B8
15	Gasket	F316L + Graphite
16	Wire Connection	316
17	Disc	A182 F316
18	Integral Seat	Stellite
19	Body	A182 F316/F316L

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5.91	7.09
	mm	80	90	110	150	180
B open	inch	6.54	6.73	8.39	10.16	11.81
	mm	166	171	213	258	300
C	inch	3.46	3.46	3.82	5.43	6.77
	mm	88	88	97	138	172
F	inch	.35	.51	.69	1.16	1.38
	mm	9	13	17,5	29,5	35
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		1.5	3.9	6.5	16.5	23.5
Weight	lb.	4.5	5	8	16.25	26.25
	kg	2,1	2,3	3,7	7,4	11,9
PACKING		BH3	BH3	BH5	BY5	BY7
GASKET		G2	G2	G3	G6	G7

RP&C Valve GLOBE VALVES - CLASS 1500

F580E NPT ENDS

F581E SOCKET WELD ENDS



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	AISI-410
8	Gland Nut	A194-2H
9	Gland Flange	A105
10	Gland Bolt Stud	AISI-410
11	Packing Gland	AISI-410
12	Packing	Graphite
13	Bonnet	A105N
14	Bolts	A193-B7
15	Gasket	F316L + Graphite
16	Wire Connection	316
17	Disc	AISI-410 + Stellite
18	Integral Seat	Stellite
19	Body	A105N

- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 1500 3705 psig @ 100°F
 255,5 bar + 38°C

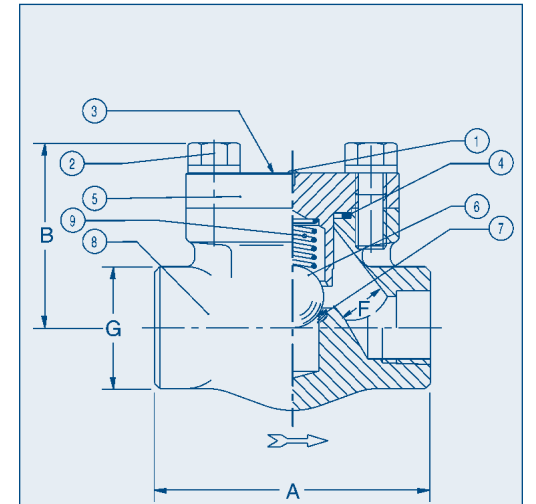
DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.54	4.33	5	7.09	8.27
	mm	90	110	127	180	210
B open	inch	6.54	8.27	9.84	11.81	14.76
	mm	166	210	250	300	375
C	inch	3.46	3.82	5.43	6.77	6.77
	mm	88	97	138	172	172
F	inch	.35	.47	.59	1.06	1.26
	mm	9	12	15	27	32
G	inch	1.50	1.89	2.20	3.07	3.35
	mm	38	48	56	78	85
Typical CV Factors		1.4	3.1	5.5	14.5	20
Weight	lb.	5.25	8.75	14.25	28.5	48.5
	kg	2,4	4	6,5	13	22
PACKING		BH3	BH5	2B4	2B5	BH8
GASKET		G1	G2	G3	G5	G7

RP&C Valve BALL CHECK VALVES - CLASS 800

F96D NPT ENDS

F97D SOCKET WELD ENDS



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Bolts	A193 B7
3	Nameplate	Aluminum
4	Gasket	F316L + Graphite
5	Bonnet	A105N
6	Ball	AISI 410
7	Integral Seat	Stellite
8	Body	A105N
9	Spring	*

- SIZES 1/2" THRU 2"
- FORGED STEEL
- BALL CHECK VALVE
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C

* The Spring will be supplied upon request.

DIMENSIONAL SPECIFICATIONS

SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5.91	7.09
	mm	80	90	110	150	180
B	inch	2.17	2.36	3.07	3.62	4.25
	mm	55	60	78	92	108
F Ball	inch	.35	.51	.69	1.16	1.38
	mm	9	13	17,5	29,5	35
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		1.1	2.6	4.2	11	14,5
Weight	lb.	2.75	3.5	6.25	12.25	19.75
	kg	1,3	1,6	2,8	5,6	9,0
GASKET		G2	G2	G3	G6	G7

RP&C Valve PISTON CHECK VALVES - CLASS 800

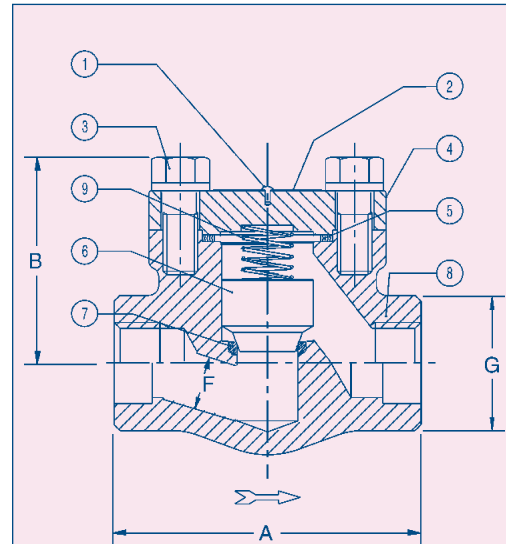
S90A NPT ENDS

S91A SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- STAINLESS STEEL
- PISTON CHECK VALVE
- ASTM A182 F316 / F316L

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - stainless steel class 800 1920 psig @ 100°F
 132,4 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	Bolts	A193 B8
4	Bonnet	A182 F316L
5	Gasket	316L + Graphite
6	Piston	A182 F316/F316
7	Integral Seat	Stellite
8	Body	A182 F316/F316L
9	Spring	*

* The Spring will be supplied upon request.

DIMENSIONAL SPECIFICATIONS						
SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	3.15 80	3.54 90	4.33 110	5.91 150	7.09 180
B	inch mm	2.17 55	2.36 60	3.07 78	3.62 92	4.25 108
F Piston	inch mm	.35 9	.51 13	.69 17.5	1.16 29.5	1.38 35
G	inch mm	1.26 32	1.50 38	1.89 48	2.52 64	3.07 78
Typical CV Factors		1.2	2.8	5	12.5	17.5
Weight	lb. kg	2.75 1.3	3.5 1.6	6.25 2.8	12.25 5.6	19.75 9.0
GASKET		G2	G2	G3	G6	G7

RP&C Valve

GLOBE VALVES - CLASS 1500

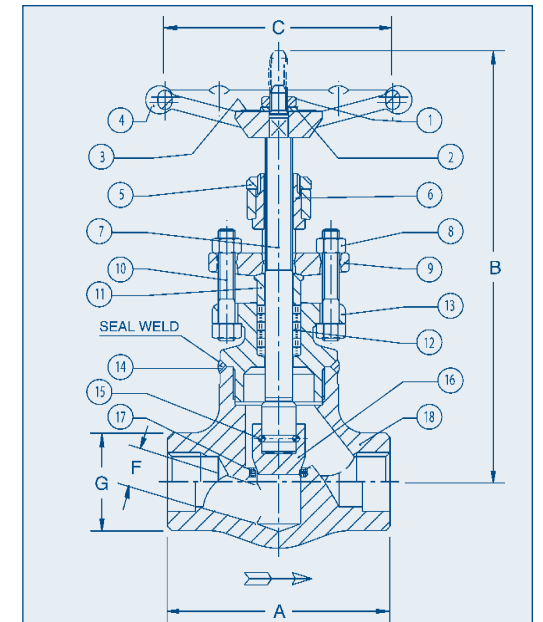
FWB580E NPT ENDS

FWB581E SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Spiral-wound gasket
 Integral backseat
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 1500 3705 psig @ 100°F
 255,5 bar + 38°C



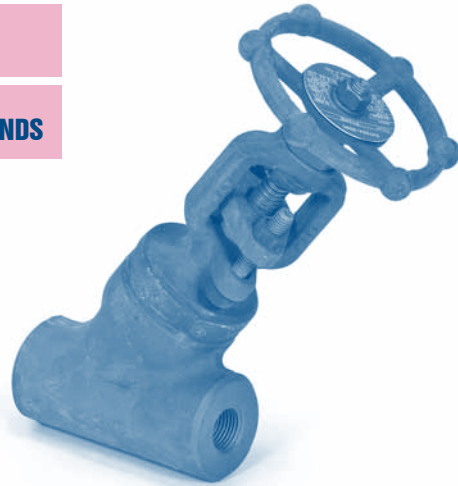
MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Stem	AISI-410
8	Gland Nut	A194-2H
9	Gland Flange	A105
10	Gland Bolt Stud	AISI-410
11	Packing Gland	AISI-410
12	Packing	Graphite
13	Bonnet	A105N
14	Weld	SECT IX
15	Wire Connection	316
16	Disc	AISI-410 + Stellite
17	Integral Seat	Stellite
18	Body	A105N

DIMENSIONAL SPECIFICATIONS						
SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	3.54 90	4.33 110	5 127	7.09 180	8.27 210
B open	inch mm	6.54 166	8.27 210	9.72 247	11.81 300	14.76 375
C	inch mm	3.46 88	3.82 97	5.43 138	6.77 172	6.77 172
F	inch mm	.35 9	.47 12	.59 15	1.06 27	1.26 32
G	inch mm	1.50 38	1.89 48	2.20 56	3.07 78	3.35 85
Typical CV Factors		1.4	3.1	5.5	14.5	20
Weight	lb. kg	4.25 2	7.75 3.5	12 5.5	26.25 12	41.75 19
PACKING		BH3	BH5	2B4	2B5	BH8

RP&C Valve GLOBE VALVES - CLASS 1690 LTD

F1200E NPT ENDS

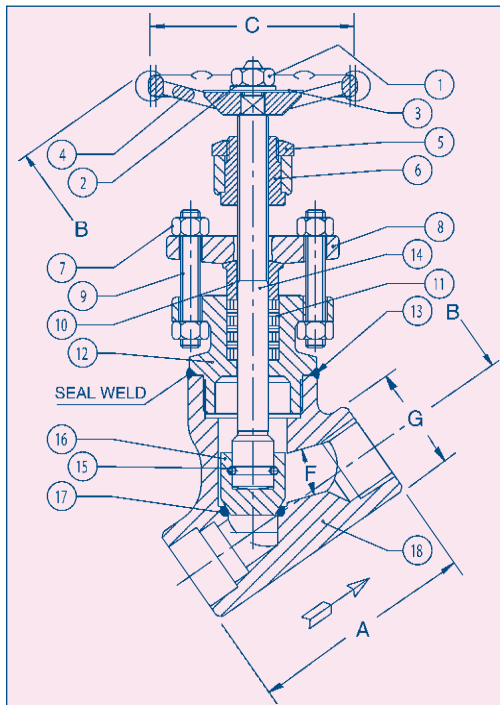
F1210E SOCKET WELD ENDS



- SIZES 1/4" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:

ASME B16.34 Limited Class
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Integral backseat
 Body bonnet weld to ASME IX
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 1690 4225 psig @ 100°F
 291 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Gland Nut	A194-2H
8	Gland Flange	A105
9	Gland Bolt Studs	AISI-410
10	Packing Gland	AISI-410
11	Packing	Graphite
12	Bonnet	A105N
13	Weld	SECT IX
14	Stem	AISI-410
15	Wire	316
16	Disc	AISI-410 + Stellite
17	Integral Seat	Stellite
18	Body	A105N

DIMENSIONAL SPECIFICATIONS									
SIZE	inch	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
	mm	6	10	15	20	25	32	40	50
A	inch	3.35	3.35	4.13	4.72	6.5	6.5	7.48	8.66
	mm	85	85	105	120	165	165	190	220
B open	inch	6.89	6.89	8.46	10.04	11.02	12.40	14.96	17.72
	mm	175	175	215	255	280	315	380	450
C	inch	3.46	3.46	3.82	5.43	5.43	6.77	6.77	9.21
	mm	88	88	97	138	138	172	172	234
F	inch	.28	.35	.47	.59	.79	1.06	1.26	1.57
	mm	7	9	12	15	20	27	32	40
G	inch	1.5	1.5	1.89	2.20	3.07	3.07	3.35	3.74
	mm	38	38	48	56	78	78	85	95
Typical CV Factors		-	-	3.7	8.7	12.6	-	42	73.8
Weight	lb.	4.25	4.25	7.75	11.5	24.25	24.25	36.25	57.25
	kg	2	2	3.5	5.3	11	11	16.5	26
PACKING		BH3	BH3	BH5	2B4	2B4	BY7	BH8	2B8

RP&C Valve PISTON CHECK VALVES - CLASS 800

C90D NPT ENDS

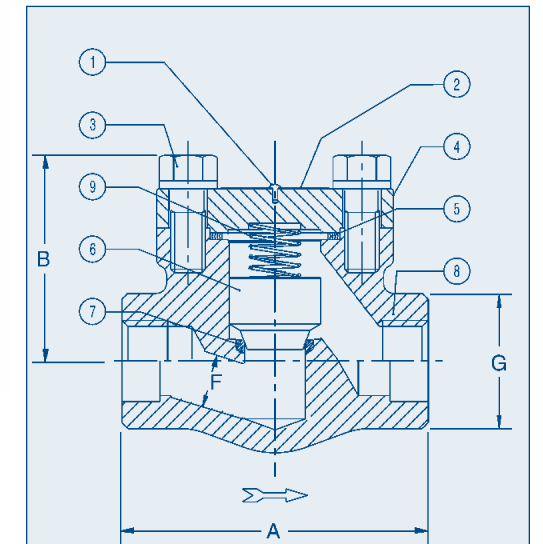
C91D SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- PISTON CHECK VALVE
- ASTM A182 Gr. F5

Design construction:

ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - alloy steel class 800 2000 psig @ 100°F
 137,9 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	Bolts	A193 B16
4	Bonnet	A182 F5
5	Gasket	316L + Graphite
6	Piston	AISI-410
7	Integral Seat	Stellite
8	Body	A182 F5
9	Spring	*

* The Spring will be supplied upon request.

DIMENSIONAL SPECIFICATIONS						
SIZE	inch	1/2	3/4	1	1 1/2	2
	mm	15	20	25	40	50
A	inch	3.15	3.54	4.33	5.91	7.09
	mm	80	90	110	150	180
B	inch	2.17	2.36	3.07	3.62	4.25
	mm	55	60	78	92	108
F Piston	inch	.35	.51	.69	1.16	1.38
	mm	9	13	17.5	29.5	35
G	inch	1.26	1.50	1.89	2.52	3.07
	mm	32	38	48	64	78
Typical CV Factors		1.2	2.8	5	12.5	17.5
Weight	lb.	2.75	3.5	6.25	12.25	19.75
	kg	1.3	1.6	2.8	5.6	9.0
GASKET		G2	G2	G3	G6	G7

RP&C Valve PISTON CHECK VALVES - CLASS 800

F90D NPT ENDS

F91D SOCKET WELD ENDS

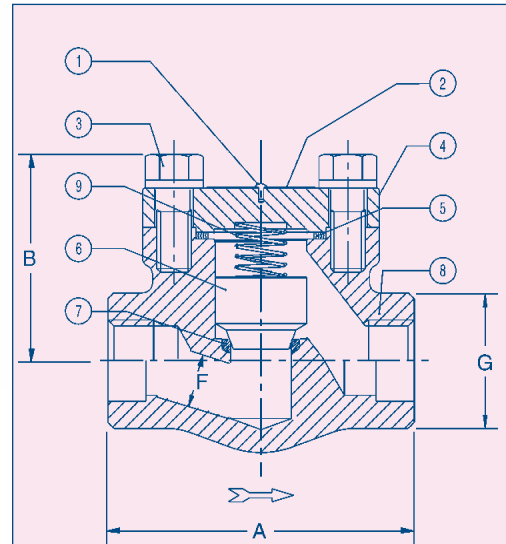
LF90A NPT ENDS

LF91A SOCKET WELD ENDS



- SIZES 1/2" THRU 2"
- FORGED STEEL
- PISTON CHECK VALVE
- ASTM A105N (F90D, F91D)
- ASTM A350 Gr. LF2 (LF90A, LF91A)

Design construction:
 ASME B16.34 - BS 5352
 Testing according to API 598
 Marking MSS SP25
 Spring on request only
 Spiral-wound gasket
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 800 1975 psig @ 100°F
 136,2 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Rivet	Carbon Steel
2	Name Plate	Aluminum
3	Bolts	A193 B7 / A320 L7
4	Bonnet	A105N or A350 LF2
5	Gasket	316L + Graphite
6	Piston	AISI-410 or 316
7	Integral Seat	Stellite
8	Body	A105N or A350 LF2
9	Spring	*

* The Spring will be supplied upon request.

DIMENSIONAL SPECIFICATIONS						
SIZE	inch mm	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	3.15 80	3.54 90	4.33 110	5.91 150	7.09 180
B	inch mm	2.17 55	2.36 60	3.07 78	3.62 92	4.25 108
F Piston	inch mm	.35 9	.51 13	.69 17.5	1.16 29.5	1.38 35
G	inch mm	1.26 32	1.50 38	1.89 48	2.52 64	3.07 78
Typical CV Factors		1.2	2.8	5	12.5	17.5
Weight	lb. kg	2.75 1.3	3.5 1.6	6.25 2.8	12.25 5.6	19.75 9.0
GASKET		G2	G2	G3	G6	G7

RP&C Valve GLOBE VALVES - CLASS 1690 LTD

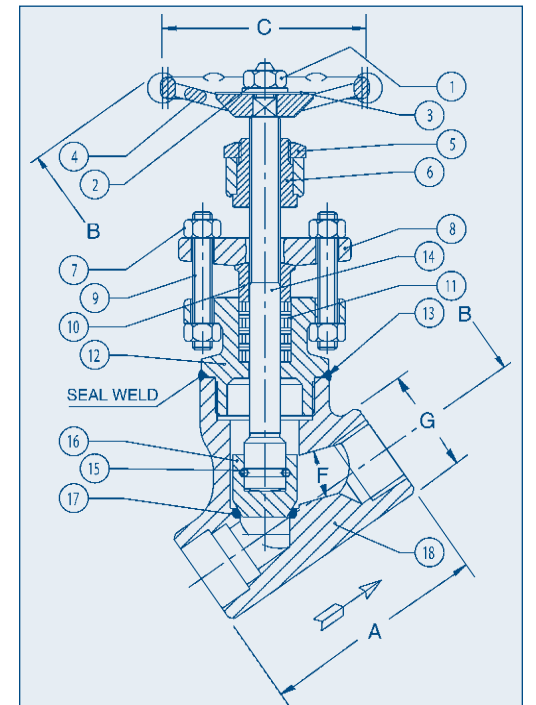
K1200E NPT ENDS

K1210E SOCKET WELD ENDS



- SIZES 1/4" THRU 2"
- FORGED STEEL
- ASTM A182 Gr. F22 Cl. 3

Design construction:
 ASME B16.34 Limited Class
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Integral backseat
 Body bonnet weld to ASME IX
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - alloy steel class 1690 4225 psig @ 100°F
 291 bar + 38°C



MATERIALS OF CONSTRUCTION		
IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Gland Nut	A194-2H
8	Gland Flange	A105
9	Gland Bolt Studs	AISI-410
10	Packing Gland	AISI-410
11	Packing	Graphite
12	Bonnet	A182 F22
13	Weld	SECT IX
14	Stem	AISI-410
15	Wire	316
16	Disc	AISI-410 + Stellite
17	Integral Seat	Stellite
18	Body	A182 F22

DIMENSIONAL SPECIFICATIONS									
SIZE	inch mm	1/4 6	3/8 10	1/2 15	3/4 20	1 25	1 1/4 32	1 1/2 40	2 50
A	inch mm	3.35 85	3.35 85	4.13 105	4.72 120	6.5 165	6.5 165	7.48 190	8.66 220
B open	inch mm	6.89 175	6.89 175	8.46 215	10.04 255	11.02 280	12.40 315	14.96 380	17.72 450
C	inch mm	3.46 88	3.46 88	3.82 97	5.43 138	5.43 138	6.77 172	6.77 172	9.21 234
F	inch mm	.28 7	.35 9	.47 12	.59 15	.79 20	1.06 27	1.26 32	1.57 40
G	inch mm	1.5 38	1.5 38	1.89 48	2.20 56	3.07 78	3.07 78	3.35 85	3.74 95
Typical CV Factors		-	-	3.7	8.7	12.6	-	42	73.8
Weight	lb. kg	4.25 2	4.25 2	7.75 3.5	11.5 5.3	24.25 11	24.25 11	36.25 16.5	57.25 26
PACKING		BH3	BH3	BH5	2B4	2B4	BY7	BH8	2B 8

RP&G Valve GLOBE VALVES - CLASS 2680 LTD

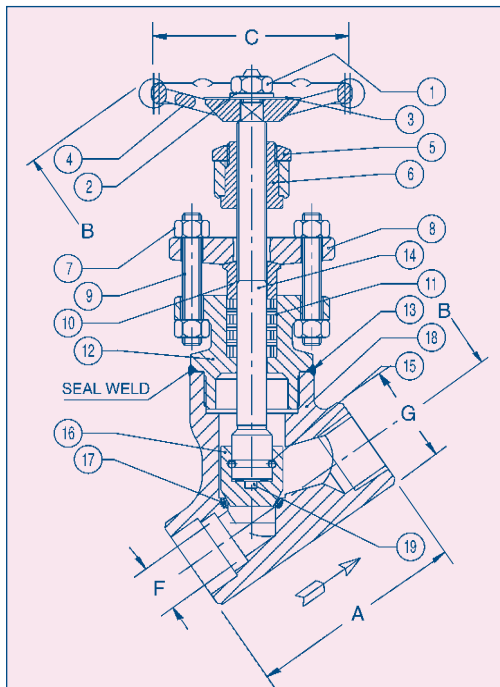
F1280E NPT ENDS (CLASS 2500)*

F1290E SOCKET WELD ENDS



- SIZES 1/4" THRU 2"
- FORGED STEEL
- ASTM A105N

Design construction:
 ASME B16.34 Limited Class
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Integral backseat
 Body bonnet weld to ASME IX
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - carbon steel class 2680 6700 psig @ 100°F
 462 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Gland Nuts	A194-2H
8	Gland Flange	A105
9	Gland Bolt Studs	AISI-410
10	Packing Gland	316
11	Packing	Graphite
12	Bonnet	A105N
13	Weld	ASME IX
14	Stem	AISI-410
15	Wire	F316
16	Disc	AISI-410 + Stellite
17	Integral Seat	Stellite
18	Body	A105N
19	Thrust Bearing	A519-9840

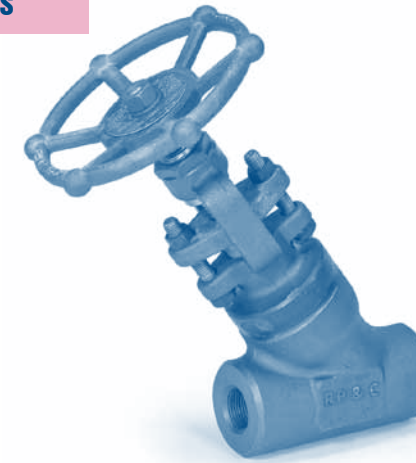
DIMENSIONAL SPECIFICATIONS								
SIZE	inch mm	1/4 6	3/8 10	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	4.13 105	4.13 105	4.72 120	6.5 165	6.5 165	7.48 190	8.66 220
B open	inch mm	8.66 220	8.66 220	9.45 240	10.83 275	12.20 310	14.17 360	17.32 440
C	inch mm	3.46 88	3.46 88	5.43 138	5.43 138	5.43 138	6.77 172	9.21 234
F	inch mm	.28 7	.35 9	.43 11	.57 14.5	.75 19	1.10 28	1.38 35
G	inch mm	1.89 48	1.89 48	2.20 56	3.07 78	3.07 78	3.35 85	3.74 95
Typical CV Factors		-	-	3.7	8.7	12.6	42	73.8
Weight	lb. kg	7.75 3.5	7.75 3.5	11 5	25.25 11.5	27.5 12.5	37.25 17	57.25 26
PACKING		BH4	BH4	2B3	2B4	2B5	2B5	2B8

* Note: Thread End Valves are limited to ASME B16.34, 2500 Pressure Class.

RP&G Valve GLOBE VALVES - CLASS 2680 LTD

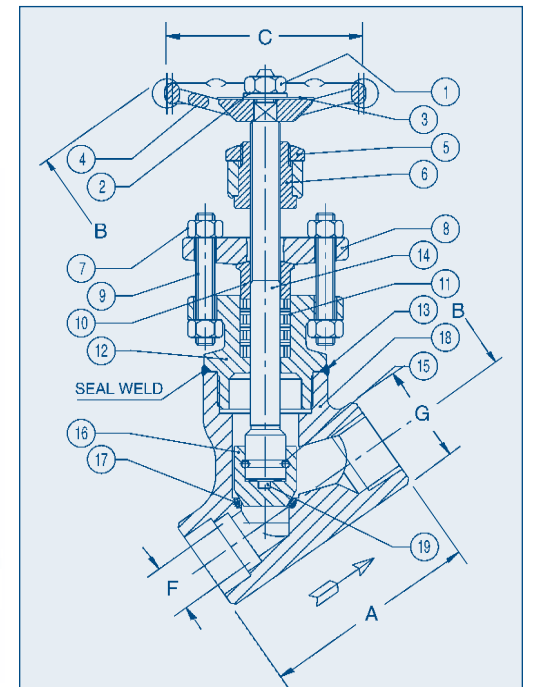
K1280E NPT ENDS (CLASS 2500)*

K1290E SOCKET WELD ENDS



- SIZES 1/4" THRU 2"
- FORGED STEEL
- ASTM A182 Gr. F22 Cl. 3

Design construction:
 ASME B16.34 Limited Class
 Testing according to API 598
 Marking MSS SP25
 Outside Screw and Yoke (OS&Y)
 Self aligning two piece packing gland
 Integral backseat
 Body bonnet weld to ASME IX
 Loose solid disc
 Socket Weld Ends to ASME B16.11
 Screwed Ends (NPT) to ASME B1.20.1
 Rating:
 - alloy steel class 2680 6700 psig @ 100°F
 462 bar + 38°C



MATERIALS OF CONSTRUCTION

IT.	DESCRIPTION	MATERIAL
1	Handwheel Nut	Carbon Steel
2	Washer	Carbon Steel
3	Name Plate	Aluminum
4	Hand Wheel	Carbon Steel
5	Yoke Nut	Carbon Steel
6	Yoke Sleeve	AISI-416
7	Gland Nuts	A194-2H
8	Gland Flange	A105
9	Gland Bolt Studs	AISI-410
10	Packing Gland	316
11	Packing	Graphite
12	Bonnet	A182 F22
13	Weld	ASME IX
14	Stem	AISI-410
15	Wire	F316L
16	Disc	AISI-410 + Stellite
17	Integral Seat	Stellite
18	Body	A182 F22
19	Thrust Bearing	A519-9840

DIMENSIONAL SPECIFICATIONS								
SIZE	inch mm	1/4 6	3/8 10	1/2 15	3/4 20	1 25	1 1/2 40	2 50
A	inch mm	4.13 105	4.13 105	4.72 120	6.5 165	6.5 165	7.48 190	8.66 220
B open	inch mm	8.66 220	8.66 220	9.45 240	10.83 275	12.20 310	14.17 360	17.32 440
C	inch mm	3.46 88	3.46 88	5.43 138	5.43 138	5.43 138	6.77 172	9.21 234
F	inch mm	.28 7	.35 9	.43 11	.57 14.5	.75 19	1.10 28	1.38 35
G	inch mm	1.89 48	1.89 48	2.20 56	3.07 78	3.07 78	3.35 85	3.74 95
Typical CV Factors		-	-	3.7	8.7	12.6	42	73.8
Weight	lb. kg	7.75 3.5	7.75 3.5	11 5	25.25 11.5	27.5 12.5	37.25 17	57.25 26
PACKING		BH4	BH4	2B3	2B4	2B5	2B5	2B8

* Note: Thread End Valves are limited to ASME B16.34, 2500 Pressure Class.