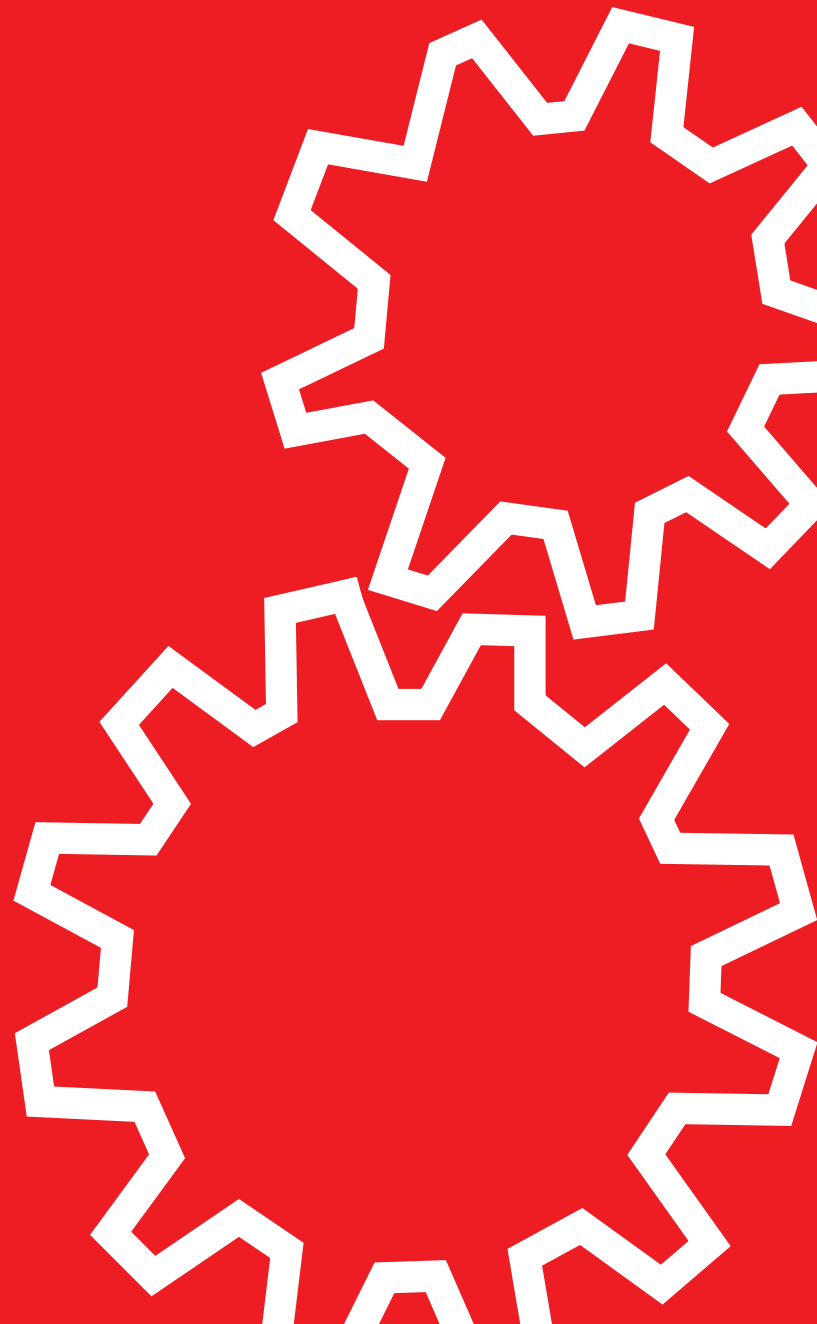
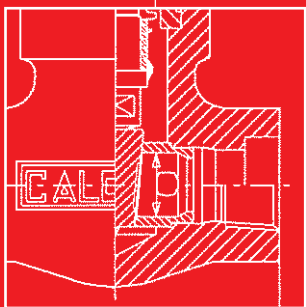
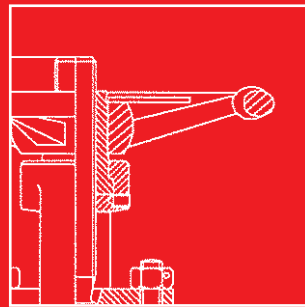
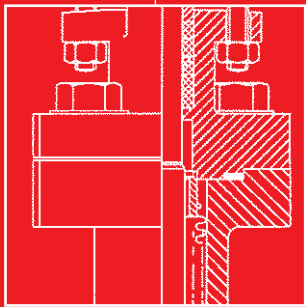
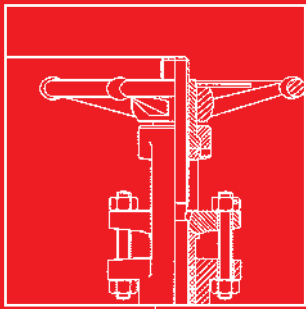


BELLOWS SEALED VALVES



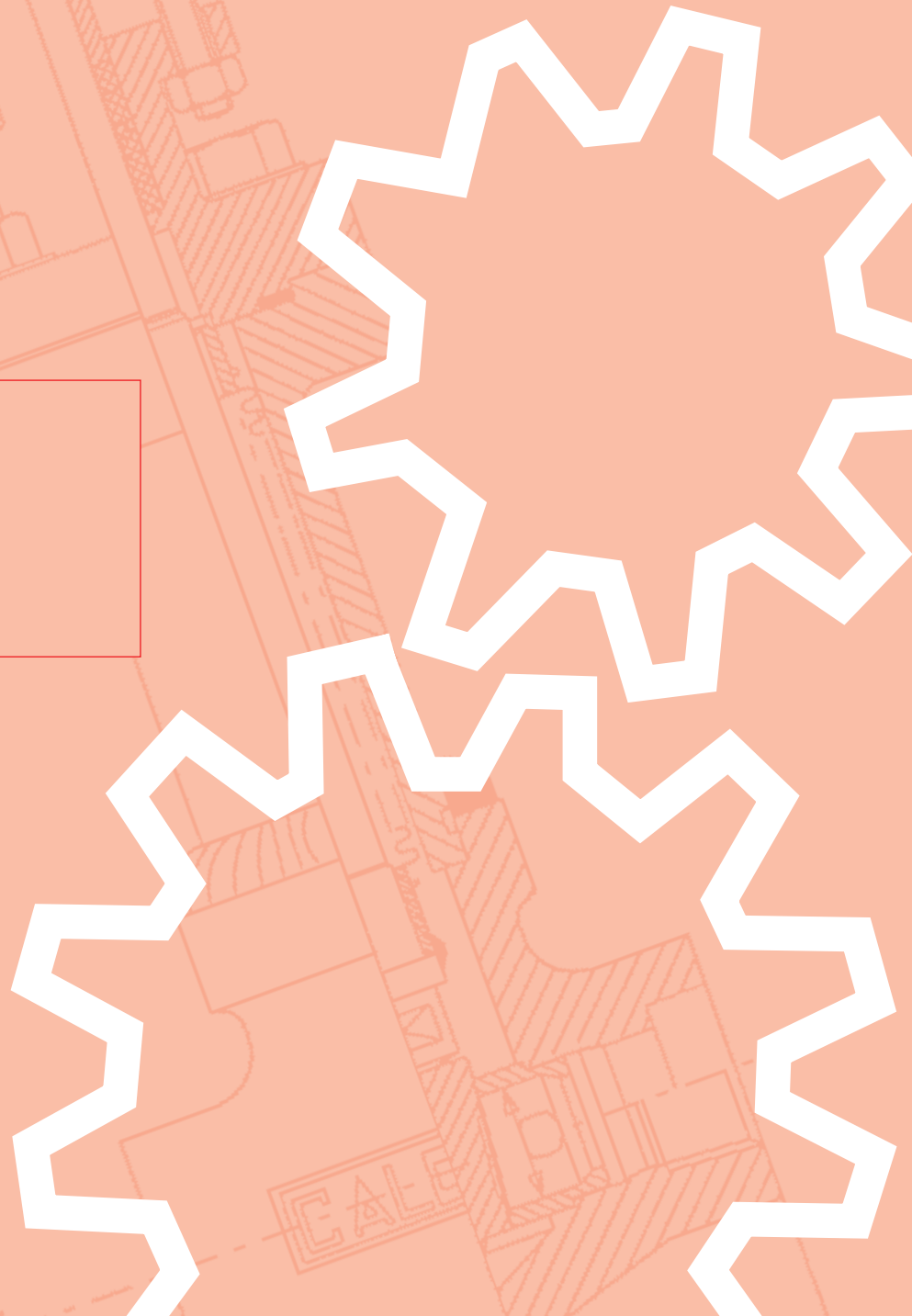
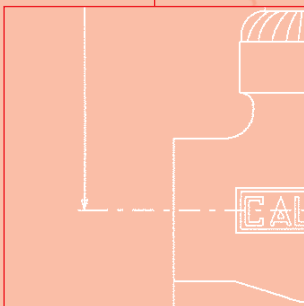
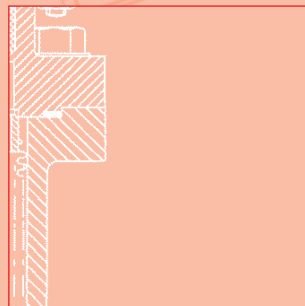
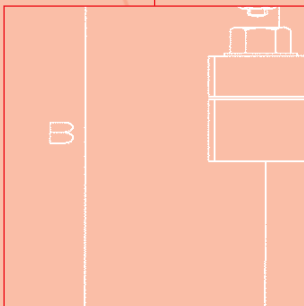
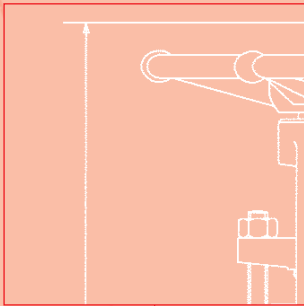
Environmental protection is a major concern for industry and regulators. The goal is to minimize exposure to dangerous or harmful substance by meeting stringent pollution and environmental control standards. To insure that emissions to the atmosphere do not occur, valve stem leakage has been addressed by using Calobri's newly engineered Bellows Seal Valves. The introduction of this unique product has solved many problems in critical applications where toxic or noxious fluids are transported. Since the bellows assembly is welded to the stem and to the bonnet, the valve is completely sealed. Calobri has developed a design approach utilizing machined transition ends allowing the bellows to be easily welded to the stem and the bonnet. This results in improved joining welds and lower assembly costs.

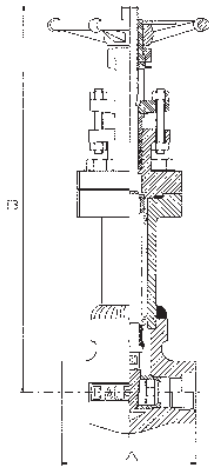
CLASS	DESIGN	CONNECTION	PORT	STANDARD	Screw & Yoke	ENDS	CALOBRI
800	Gate	Welded bonnet - Bolted Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF S8
800	Gate	Welded bonnet - Bolted Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF S88
1500	Gate	Welded bonnet - Bolted Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF S15
1500	Gate	Welded bonnet - Bolted Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF SF1515
800	Gate	Welded Bonnet - Welded Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WS8
800	Gate	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WS88
1500	Gate	Welded Bonnet - Welded Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WS15
1500	Gate	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WS1515
800	Globe	Welded bonnet - Bolted Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF D8
800	Globe	Welded bonnet - Bolted Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF D88
1500	Globe	Welded bonnet - Bolted Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF D15
1500	Globe	Welded bonnet - Bolted Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF D1515
800	Globe	Welded Bonnet - Welded Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WD8
800	Globe	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WD88
1500	Globe	Welded Bonnet - Welded Bonnet	Reduced	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WD15
1500	Globe	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF WD1515
1500	Globe Y Pattern	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF YD1515
2500	Globe Y Pattern	Welded Bonnet - Welded Bonnet	Full	API 602-B55352	Outside	Threaded and Socket Weld ends	SF YD25

Class 800 to 2500

Bolted Bonnet - Welded Bonnet

Full and Reduced Bore





Design construction:
 API 602 - BS 5352
 Testing according to API 598 - BS 6755
 Marking MSS SP25

Outside Screw and Yoke (OS&Y)
 Self aligning packing gland
 Spiral-wound gasket retained type
 Integral backseat
 Socket weld Ends to ANSI B16.11
 Screwed Ends (NPT) to ANSIB1.20.1
 Butt Welding Ends to ANSI B.16.25

GATE VALVES

CLASS 800

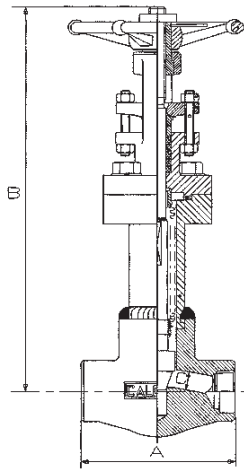
FULL BORE										
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2	
	mm	6	10	15	20	25	32	40	50	
A	inch	3.14	3.14	3.54	4.33	5.00	5.00	5.00	8.26	
	mm	80	80	90	110	127	127	127	210	
B Open	inch	10.3	10.3	11.6	13.9	16.2	18.5	20.9	25.6	
	mm	262	262	296	353	412	470	531	650	
C	inch	0.31	0.38	0.55	0.70	0.94	1.18	1.45	1.89	
	mm	8	9.6	14	18	24	30	37	48	
Handwheel	inch	3.14	3.14	3.14	4.33	5.11	5.11	7.08	7.08	
	mm	80	80	80	110	130	130	180	180	
Weight	Bolted B.	Lb	4.8	4.8	6.6	9.3	17.4	19.8	32.6	73.8
		Kg	2.2	2.2	3	4.2	7.9	9	14.8	33.5
Weight	Welded B.	Lb	4.8	4.8	6.6	9.3	17.4	19.8	32.6	73.8
		Kg	2.2	2.2	3	4.2	7.9	9	14.8	33.5
FIGURE	Bolted B.	SF S88								
	Welded B.	SF WS88								
PACKING		T2	T2	T2	T4	T5	T6	T6	T8	
GASKET		40x30	40x30	40x30	48x38	54x44	66x54	74x60	95x78	

REDUCED BORE										
SIZE	inch	1/2	3/4	1	1.1/4	1.1/2	2			
	mm	15	20	25	32	40	50			
A	inch	3.14	3.54	4.33	5.00	5.00	5.00			
	mm	80	90	110	127	127	127			
B Open	inch	10.3	11.6	13.9	16.2	16.2	20.9			
	mm	262	296	353	412	470	531			
C	inch	0.38	0.55	0.70	0.94	1.18	1.45			
	mm	9.6	14	18	24	30	37			
Handwheel	inch	3.14	3.14	4.33	5.11	5.11	7.08			
	mm	80	80	110	130	130	180			
Weight	Bolted B.	Lb	4.8	4.8	9.3	17.4	19.8			
		Kg	2.2	2.2	4.2	7.9	9			
Weight	Welded B.	Lb	4.8	4.8	9.3	17.4	19.8			
		Kg	2.2	2.2	4.2	7.9	9			
FIGURE	Bolted B.	SF S8								
	Welded B.	SF WS8								
PACKING		T2	T2	T4	T5	T6	T6			
GASKET		40x30	40x30	48x38	54x44	66x54	74x60			

CLASS 1500

FULL BORE										
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	3.54	3.54	4.33	5.00	5.00	5.00	8.26	8.26	
	mm	90	90	110	127	127	127	210	210	
B Open	inch	12.9	13.0	14.6	18.7	20.1	23.0	25.6	32.0	
	mm	328	331	372	475	510	586	650	815	
C	inch	0.31	0.38	0.55	0.70	0.94	1.18	1.45	1.57	
	mm	8	9.6	14	18	24	30	37	40	
Handwheel	inch	5.11	5.11	5.11	5.11	7.08	7.08	9.84	9.84	
	mm	130	130	130	130	180	180	250	250	
Weight	Bolted B.	Lb	8.1	8.1	11.6	17.6	23.1	37.4	67.2	79.3
		Kg	3.7	3.7	5.3	8	10.5	17	30.5	36
Weight	Welded B.	Lb	8.1	8.1	11.6	17.6	23.1	37.4	67.2	79.3
		Kg	3.7	3.7	5.3	8	10.5	17	30.5	36
FIGURE	Bolted B.	SF S1515								
	Welded B.	SF WS1515								
PACKING		T4	T4	T5	T6	T7	T8	T9	T18	
GASKET		40x30	40x30	40x30	48x38	54x44	66x54	74x60	74x60	

REDUCED BORE										
SIZE	inch	1/2	3/4	1	1.1/4	1.1/2	2			
	mm	15	20	25	32	40	50			
A	inch	3.54	4.33	5.00	5.00	5.00	8.26			
	mm	90	110	127	127	127	210			
B Open	inch	12.9	13.0	14.6	18.7	20.1	23.0			
	mm	328	331	372	475	510	586			
C	inch	0.38	0.55	0.70	0.94	1.18	1.45			
	mm	9.6	14	18	24	30	37			
Handwheel	inch	5.11	5.11	5.11	5.11	7.08	7.08			
	mm	130	130	130	130	180	180			
Weight	Bolted B.	Lb	8.1	11.6	17.6	23.1	37.4			
		Kg	3.7	5.3	8	10.5	17			
Weight	Welded B.	Lb	8.1	11.6	17.6	23.1	37.4			
		Kg	3.7	5.3	8	10.5	17			
FIGURE	Bolted B.	SF S15								
	Welded B.	SF WS15								
PACKING		T4	T5	T6	T7	T8				
GASKET		40x30	40x30	48x38	54x44	66x54	74x60			



Design construction:
API 602 - BS 5352
Testing according to API 598 - BS 6755
Marking MSS SP25

Outside Screw and Yoke (OS&Y)
Self aligning packing gland
Spiral-wound gasket retained type
Integral backseat
Socket weld Ends to ANSI B16.11
Screwed Ends (NPT) to ANSIB1.20.1
Butt Welding Ends to ANSI B.16.25

GLOBE VALVES

CLASS 800

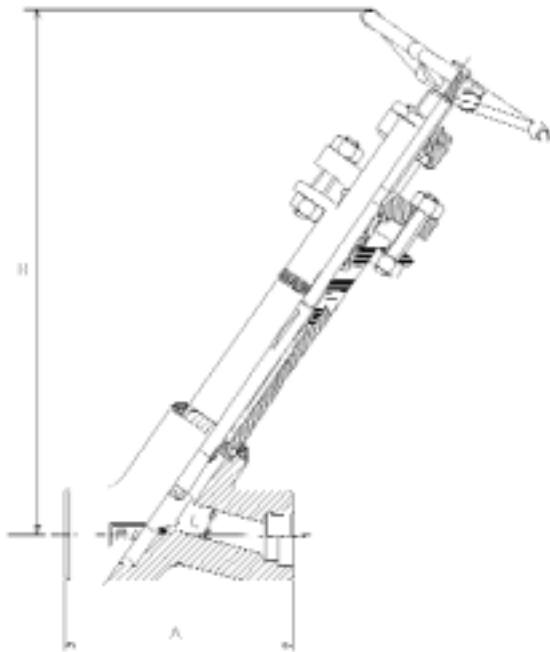
FULL BORE										
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2	
	mm	6	10	15	20	25	32	40	50	
A	inch	3.14	3.14	3.54	4.33	5.00	6.10	6.69	8.26	
	mm	80	80	90	110	127	155	170	210	
B Open	inch	9.60	9.60	10.9	12.2	14.4	16.8	18.2	23.2	
	mm	244	244	276	311	366	428	462	590	
C	inch	0.28	0.35	0.51	0.69	0.88	1.16	1.37	1.79	
	mm	7	9	13	17.5	22.5	29.5	35	45.5	
Handwheel	inch	3.14	3.14	3.14	4.33	5.11	5.11	7.08	7.08	
	mm	80	80	80	110	130	130	180	180	
Weight	Bolted B.	Lb	5.1	5.1	6.6	10.3	17.4	26.0	38.1	76.6
		Kg	2.3	2.3	3.0	4.7	7.9	11.8	17.3	34.5
Weight	Welded B.	Lb	5.1	5.1	6.6	10.3	17.4	26.0	38.1	76.6
		Kg	2.3	2.3	3.0	4.7	7.9	11.8	17.3	34.5
FIGURE	Bolted B.	SF D88								
	Welded B.	SF WD88								
PACKING		T2	T2	T3	T5	T25	T6	T27	T8	
GASKET		40x30	40x30	40x30	48x38	54x44	66x54	74x60	95x78	

REDUCED BORE										
SIZE	inch	1/2	3/4	1	1.1/4	1.1/2	2			
	mm	15	20	25	32	40	50			
A	inch	3.14	3.54	4.33	5.00	6.10	6.69	8.26	8.26	
	mm	80	90	110	127	155	170	210	210	
B Open	inch	9.60	10.9	12.2	14.4	16.8	18.2	23.2	23.2	
	mm	244	276	311	366	428	462	590	590	
C	inch	0.35	0.51	0.69	0.88	1.16	1.37	1.79	1.79	
	mm	9	13	17.5	22.5	29.5	35	45.5	45.5	
Handwheel	inch	3.14	3.14	4.33	5.11	5.11	7.08	7.08	7.08	
	mm	80	80	110	130	130	180	180	180	
Weight	Bolted B.	Lb	5.1	6.6	10.3	17.4	26.0	38.1	38.1	76.6
		Kg	2.3	3.0	4.7	7.9	11.8	17.3	17.3	34.5
Weight	Welded B.	Lb	5.1	6.6	10.3	17.4	26.0	38.1	38.1	76.6
		Kg	2.3	3.0	4.7	7.9	11.8	17.3	17.3	34.5
FIGURE	Bolted B.	SF D8								
	Welded B.	SF WD8								
PACKING		T2	T3	T5	T25	T6	T27	T8		
GASKET		40x30	40x30	48x38	54x44	66x54	74x60			

CLASS 1500

FULL BORE										
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	3.54	3.54	4.33	5.00	6.10	6.69	8.26	8.26	
	mm	90	90	110	127	155	170	210	210	
B Open	inch	11.7	11.8	13.0	16.7	17.7	19.9	21.4	27.7	
	mm	298	301	332	425	450	506	545	705	
C	inch	0.28	0.35	0.51	0.67	0.83	1.10	1.30	1.48	
	mm	7	9	13	17	21	28	33	37.5	
Handwheel	inch	3.14	5.11	5.11	5.11	7.08	7.08	9.84	9.84	
	mm	80	130	130	130	180	180	250	250	
Weight	Bolted B.	Lb	7.7	7.7	11.0	16.3	22.0	35.7	64.5	73.3
		Kg	3.5	3.5	5	7.4	10	16.2	29	33
Weight	Welded B.	Lb	7.7	7.7	11.0	16.3	22.0	35.7	64.5	73.3
		Kg	3.5	3.5	5	7.4	10	16.2	29	33
FIGURE	Bolted B.	SF D1515								
	Welded B.	SF WD1515								
PACKING		T2	T2	T3	T5	T25	T6	T27	T8	
GASKET		40x30	40x30	40x30	48x38	54x44	66x54	74x60	95x78	

REDUCED BORE										
SIZE	inch	1/2	3/4	1	1.1/4	1.1/2	2			
	mm	15	20	25	32	40	50			
A	inch	3.54	4.33	5.00	6.10	6.69	8.26	8.26	8.26	
	mm	90	110	127	155	170	210	210	210	
B Open	inch	11.8	13.0	16.7	17.7	19.9	21.4	27.7	27.7	
	mm	301	332	425	450	506	545	705	705	
C	inch	0.35	0.51	0.67	0.83	1.10	1.30	1.48	1.48	
	mm	9	13	17	21	28	33	37.5	37.5	
Handwheel	inch	5.11	5.11	5.11	7.08	7.08	9.84	9.84	9.84	
	mm	130	130	130	180	180	250	250	250	
Weight	Bolted B.	Lb	7.7	11.0	16.3	22.0	35.7	64.5	64.5	73.3
		Kg	3.5	5	7.4	10	16.2	29	29	33
Weight	Welded B.	Lb	7.7	11.0	16.3	22.0	35.7	64.5	64.5	73.3
		Kg	3.5	5	7.4	10	16.2	29	29	33
FIGURE	Bolted B.	SF D15								
	Welded B.	SF WD15								
PACKING		T3	T5	T6	T6	T27	T8			
GASKET		40x30	40x30	48x38	54x44	66x54	74x60			



Design construction:
 BS 5352 - ASME B16.34
 Testing according to API 598 - BS 6755
 Marking MSS SP25

Outside Screw and Yoke (OS&Y)
 Self aligning packing gland
 Socket weld Ends to ANSI B16.11
 Screwed Ends (NPT) to ANSIB1.20.1
 Butt Welding Ends to ANSI B.16.25

GLOBE VALVES Y PATTERN

CLASS 1500 - 1700

		FULL BORE								
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	3.54 90	3.54 90	3.54 90	5.00 127	5.00 127	6.10 155	6.10 155	7.08 180	
B Open	inch mm	11.8 300	11.8 300	11.6 295	15.2 388	15.4 393	18.7 475	21.8 556	28.3 720	
C	inch mm	0.27 7	0.35 9	0.43 11	0.59 15	0.76 19.5	1.08 27.5	1.24 31.5	1.53 39	
Handwheel	inch mm	5.11 130	5.11 130	5.11 130	5.11 130	7.08 180	7.08 180	9.84 250	9.84 250	
Weight	Lb Kg	7.26 3.3	7.26 3.3	7.04 3.2	13.4 6.1	18.5 8.4	36.1 16.7	42.3 19.2	56.8 25.8	
FIGURE	SF YD1515									
PACKING		T5	T5	T5	T6	T6	T27	T8	T918	

CLASS 2500 - 2700

		FULL BORE								
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	- -	- -	5.00 127	5.00 127	6.10 155	- -	- -	- -	
B Open	inch mm	- -	- -	11.02 280	11.02 280	14.1 360	- -	- -	- -	
C	inch mm	- -	- -	0.43 11	0.59 15	0.70 19.5	- -	- -	- -	
Handwheel	inch mm	- -	- -	5.11 130	5.11 130	7.08 180	- -	- -	- -	
Weight	Lb Kg	- -	- -	9.9 4.5	15.6 7.1	16.7 7.6	- -	- -	- -	
FIGURE	SF YD25									
PACKING		-	-	T2513X	T2513X	T8X	-	-	-	