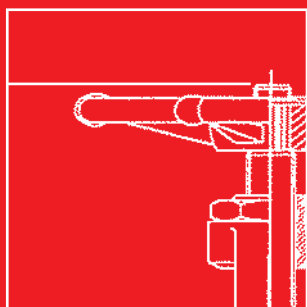
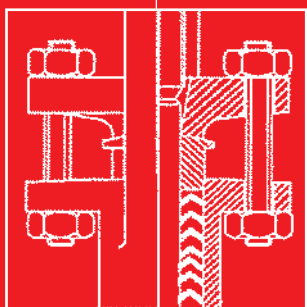
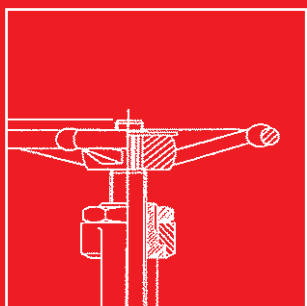


CRYOGENIC VALVES



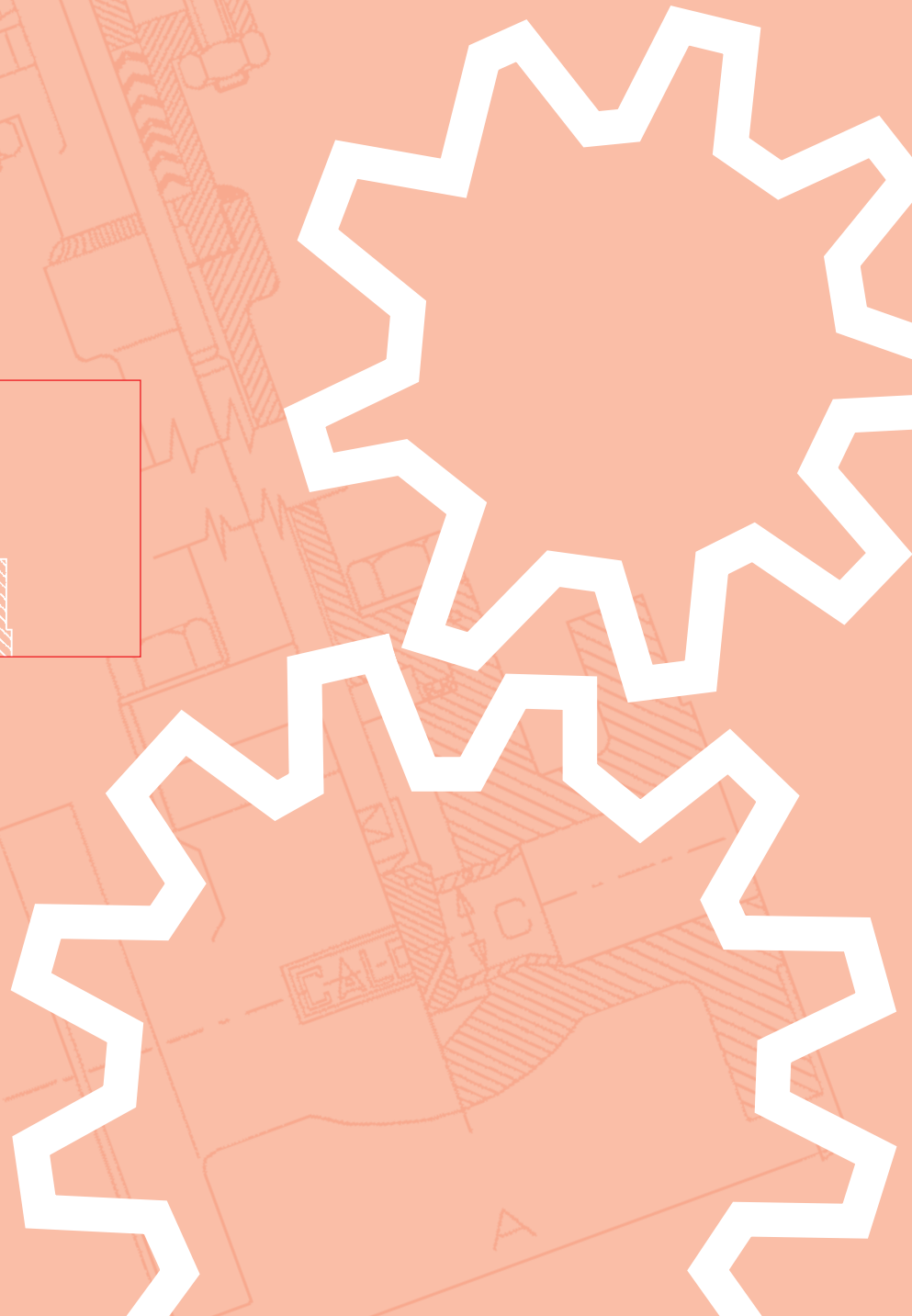
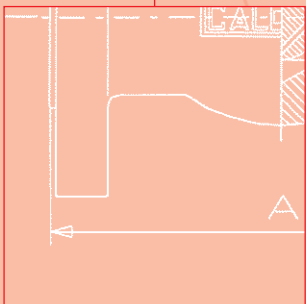
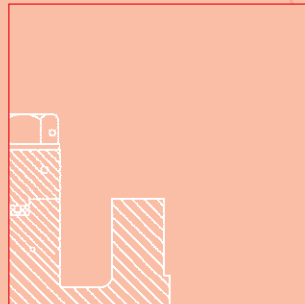
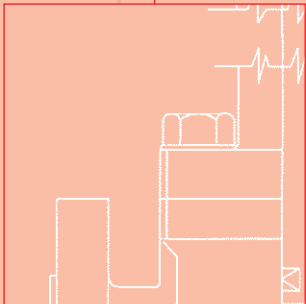
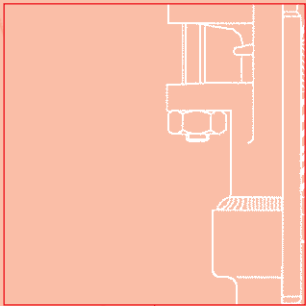
Cryogenic Service¹ refers to service where temperature are below normal atmospheric temperatures. Definitions vary, but often any temperature below -50°F/ -45°C is considered cryogenic. The bonnet of gate and globe valves is of the extended type with sufficient length and a vapour space between body and stuffing box in order to maintain the gland packing sufficiently near ambient temperature to prevent icing of the top works and keep the packing soft and pliable for optimum sealing characteristics.

CLASS	DESIGN	CONNECTION	PORT	STANDARD	Screw & Yoke	ENDS	CALOBRI
150	Gate	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT S1F
150	Gate	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT S11F
300	Gate	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT S3F
300	Gate	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT S33F
600	Gate	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT S6F
600	Gate	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT S66F
800	Gate	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Threaded and Socket Weld Ends	BT S8
800	Gate	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Threaded and Socket Weld Ends	BT S88
1500	Gate	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Threaded and Socket Weld Ends	BT S15
1500	Gate	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Threaded and Socket Weld Ends	BT S1515
150	Globe	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT D1F
150	Globe	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT D11F
300	Globe	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT D3F
300	Globe	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT D33F
600	Globe	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Flanged to ASME B16.5	BT D6F
600	Globe	Bolted bonnet-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT D66F
800	Globe	Bolted bonnet-Welded Bon	Reduced	BS5352	Outside	Threaded and Socket Weld Ends	BT D8
800	Globe	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Threaded and Socket Weld Ends	BT D88
1500	Globe	Ring Joint BB-Welded Bon	Reduced	BS5352	Outside	Threaded and Socket Weld Ends	BT D15
1500	Globe	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Threaded and Socket Weld Ends	BT D1515
1500	Gate	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT RJ S1515F
1500	Globe	Ring Joint BB-Welded Bon	Full	BS5352	Outside	Flanged to ASME B16.5	BT RJ D1515F

Class 150 - 300 - 600 - 800 - 1500

Bolted 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
Integral flanged ends to ANSI B16.5
Butt Welding Ends to ANSI B.16.25
End - To - End to ASME B16.10

GATE VALVES

CLASS 150

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	-	-	4.25	4.64	5.00	-	6.49	7.00
	mm	-	-	108	118	127	-	165	178
B Open	inch	-	-	17.2	18.5	19.8	-	21.9	23.5
	mm	-	-	438	472	505	-	558	597
C	inch	-	-	0.55	0.75	0.94	-	1.45	1.89
	mm	-	-	14	19	24	-	37	48
Handwheel	inch	-	-	4.33	4.33	5.11	-	9.84	9.84
	mm	-	-	110	110	130	-	250	250
WEIGHT	lb	-	-	17.8	31.5	38.5	-	83.2	88.7
	kg	-	-	8.1	14.3	17.5	-	37.8	40.3
FIGURE	BT S11F								
PACKING	-	-	T2	T2	T4	-	T6	T6	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	4.25	4.64	5.00	-	6.49	7.00
	mm	-	-	108	118	127	-	165	178
B Open	inch	-	-	16.5	17.5	17.8	-	19.4	20.1
	mm	-	-	420	445	453	-	493	512
C	inch	-	-	0.39	0.55	0.75	-	1.18	1.45
	mm	-	-	10	14	19	-	30	37
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	10.5	12.3	18.7	-	33.0	44.7
	kg	-	-	4.8	5.6	8.5	-	15	20.3
FIGURE	BT S1F								
PACKING	-	-	T2	T4	T5	-	T6	T8	
GASKET	-	-	40x30	40x30	48x38	-	66x54	81x71	

CLASS 300

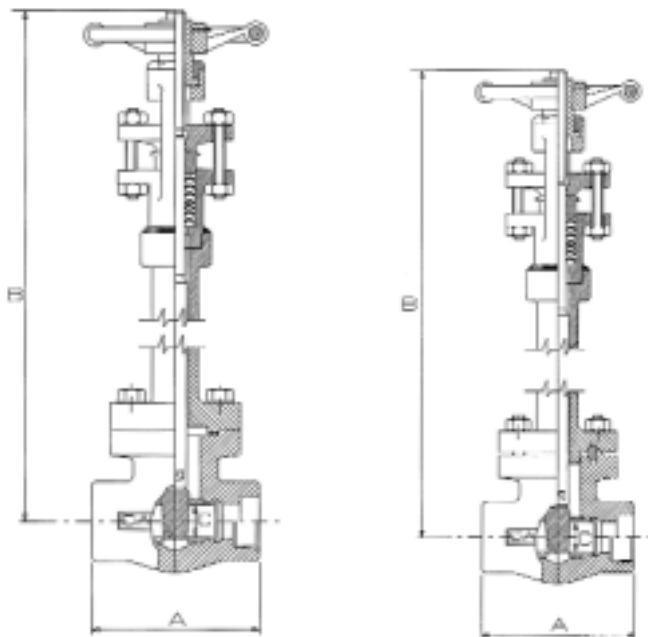
FULL BORE									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A	inch	-	-	5.51	6.02	6.49	-	7.51	8.50
	mm	-	-	140	153	165	-	191	216
B Open	inch	-	-	17.2	18.5	19.8	-	21.9	23.5
	mm	-	-	438	472	505	-	558	597
C	inch	-	-	0.55	0.75	0.94	-	1.45	1.89
	mm	-	-	14	19	24	-	37	48
Handwheel	inch	-	-	4.33	4.33	5.11	-	9.84	9.84
	mm	-	-	110	110	130	-	250	250
WEIGHT	lb	-	-	18.2	31.9	39.4	-	83.7	89.2
	kg	-	-	8.3	14.5	17.9	-	38	40.5
FIGURE	BT S33F								
PACKING	-	-	T2	T2	T4	-	T6	T6	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	5.51	6.02	6.49	-	7.51	8.50
	mm	-	-	140	153	165	-	191	216
B Open	inch	-	-	16.5	17.5	17.8	-	19.4	20.1
	mm	-	-	420	445	453	-	493	512
C	inch	-	-	0.39	0.55	0.75	-	1.18	1.45
	mm	-	-	10	14	19	-	30	37
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	12.1	15.4	20.5	-	36.3	49.1
	kg	-	-	5.5	7	9.3	-	16.5	22.3
FIGURE	BT S3F								
PACKING	-	-	T2	T3	T5	-	T6	T8	
GASKET	-	-	40x30	40x30	48x38	-	66x54	81x71	

CLASS 600

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	-	-	6.49	7.51	8.50	-	9.48	11.5
	mm	-	-	165	191	216	-	241	292
B Open	inch	-	-	17.2	18.5	19.8	-	21.9	23.5
	mm	-	-	438	472	505	-	558	597
C	inch	-	-	0.55	0.75	0.94	-	1.45	1.89
	mm	-	-	14	19	24	-	37	48
Handwheel	inch	-	-	4.33	4.33	5.11	-	9.84	9.84
	mm	-	-	110	110	130	-	250	250
WEIGHT	lb	-	-	19.3	33.0	40.7	-	85.9	92.5
	kg	-	-	8.8	15	18.5	-	39	42
FIGURE	BT S66F								
PACKING	-	-	T2	T2	T4	-	T6	2" #150	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	6.49	7.51	8.50	-	9.48	11.5
	mm	-	-	165	191	216	-	241	292
B Open	inch	-	-	15.7	16.2	16.8	-	19.4	20.1
	mm	-	-	398	413	428	-	493	512
C	inch	-	-	0.39	0.55	0.75	-	1.18	1.45
	mm	-	-	10	14	19	-	30	37
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	12.5	15.4	21.6	-	42.9	54.6
	kg	-	-	5.7	7	9.8	-	19.5	24.8
FIGURE	BT S6F								
PACKING	-	-	T2	T3	T5	-	T6	2" #150	
GASKET	-	-	40x30	40x30	48x38	-	66x54	79x69	



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 in two parts
 Spiral wound gasket retained type Integral backseat for RB
 Oval ring joint gasket retained type Integral backseat for RB
 Socket weld Ends to ANSI B16.11
 Screwed Ends (NOT) to ANSIB1.20.1
 Butt Welding Ends to ANSI B.16.25
 Ring - Joint Gasket to ANSI B16.20 - API 6A

Ratings:
 - carbon steel class 800 1975 psig @ 100° F
 138 bar + 38° C
 - carbon steel class 1500 3705 psig @ 100° F
 255 bar + 38° C

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	5.90
	mm	80	80	90	110	127	127	127	150
B Open	inch	15.7	15.7	16.2	16.8	18.1	19.4	20.1	22.7
	mm	398	398	413	428	460	493	512	577
C	inch	0.31	0.39	0.55	0.75	0.94	1.18	1.45	1.89
	mm	8	10	14	19	24	30	37	48
Handwheel	inch	3.54	3.54	3.54	4.33	4.33	5.11	5.11	7.08
	mm	90	90	90	110	110	130	130	180
WEIGHT	lb	7.0	7.0	9.0	14.0	23.1	26.4	32.6	64.0
	kg	3.2	3.2	4.1	6.4	10.5	12	14.8	29
FIGURE	BT S88								
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	15.7	16.2	16.8	18.1	19.4	20.1
	mm	398	413	428	460	493	512
C	inch	0.39	0.55	0.75	0.94	1.18	1.45
	mm	10	14	19	24	30	37
Handwheel	inch	3.54	3.54	4.33	4.33	5.11	5.11
	mm	90	90	110	110	130	130
WEIGHT	lb	7.0	9.0	14.0	23.1	26.4	32.6
	kg	3.2	4.1	6.4	10.5	12	14.8
FIGURE	BT S8						
PACKING	T2	T2	T4	T5	T6	T6	
GASKET	40x30	40x30	48x38	54x44	66x54	74x60	

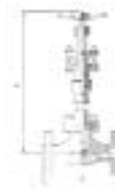
CLASS 1500

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	5.90	5.90
	mm	90	90	110	127	127	120	150	150
B Open	inch	15.6	15.6	16.9	18.3	19.1	20.2	22.2	22.4
	mm	396	396	430	465	485	514	565	570
C	inch	0.31	0.39	0.55	0.75	0.94	1.18	1.45	1.57
	mm	8	10	14	19	24	30	37	40
Handwheel	inch	3.54	3.54	4.33	4.33	5.11	5.11	7.08	7.08
	mm	90	90	110	110	130	130	180	180
WEIGHT	lb	9.0	9.0	14.7	24.2	27.1	34.8	66.0	64.9
	kg	4.1	4.1	6.7	11	12.3	15.8	30	29.5
FIGURE	BT S1515								
PACKING	T4	T4	T5	T5	T6	T27	T8	T918	
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	5.90
	mm	90	110	127	127	120	150
B Open	inch	15.6	16.9	18.3	19.1	20.2	22.2
	mm	396	430	465	485	514	565
C	inch	0.39	0.55	0.75	0.94	1.18	1.45
	mm	10	14	19	24	30	37
Handwheel	inch	3.54	4.33	4.33	5.11	5.11	7.08
	mm	90	110	110	130	130	180
WEIGHT	lb	9.0	14.7	24.2	27.1	34.8	66.0
	kg	4.1	6.7	11	12.3	15.8	30
FIGURE	BT S15						
PACKING	T4	T5	T5	T6	T27	T8	
GASKET	40x30	40x30	48x38	54x44	66x54	74x60	

Design construction:
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
Butt Welding Ends to ANSI B.16.25
Integral flanged ends to ANSI B16.5
End - To - End dimensions to ASME B16.10



GLOBE VALVES

CLASS 150

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	-	-	4.25	4.64	5.00	-	6.49	7.99
	mm	-	-	108	118	127	-	165	203
B Open	inch	-	-	19.4	20.6	21.4	-	25.9	27.1
	mm	-	-	495	523	545	-	660	690
C	inch	-	-	0.51	0.69	0.89	-	1.37	1.79
	mm	-	-	13	17.5	22.5	-	35	45.5
Handwheel	inch	-	-	3.54	4.33	5.11	-	9.84	9.84
	mm	-	-	90	110	130	-	250	250
WEIGHT	lb	-	-	17.8	31.5	38.5	-	83.2	89.2
	kg	-	-	8.1	14.3	17.5	-	37.8	40.5
FIGURE	BT D11F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	4.25	4.64	5.00	-	6.49	7.99
	mm	-	-	108	118	127	-	165	203
B Open	inch	-	-	16.5	17.6	17.9	-	19.6	19.9
	mm	-	-	420	447	455	-	498	507
C	inch	-	-	0.35	0.51	0.69	-	1.16	1.37
	mm	-	-	9	13	17.5	-	29.5	35
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	11	12.7	18.9	-	30.4	53.5
	kg	-	-	5	5.8	8.6	-	13.8	24.3
FIGURE	BT D1F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

CLASS 300

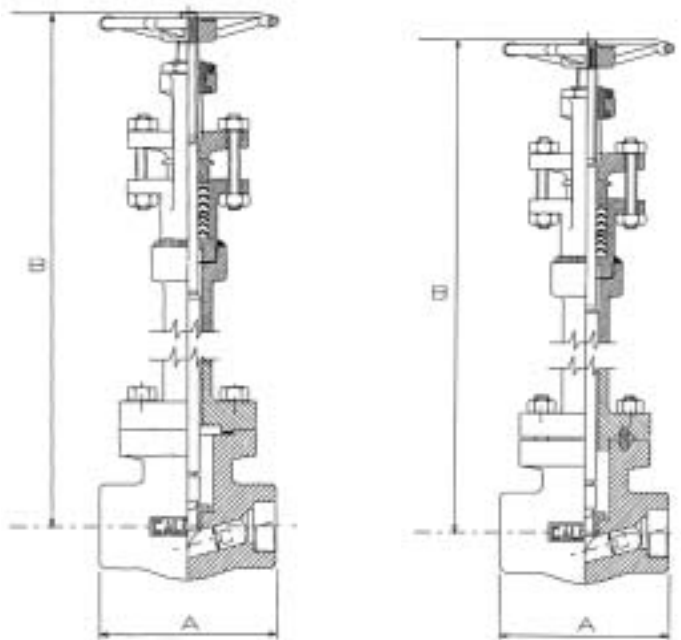
FULL BORE									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A	inch	-	-	6.02	7.00	7.99	-	9.01	10.5
	mm	-	-	153	178	203	-	229	267
B Open	inch	-	-	19.4	20.6	21.4	-	25.9	27.1
	mm	-	-	495	523	545	-	660	690
C	inch	-	-	0.51	0.69	0.89	-	1.37	1.79
	mm	-	-	13	17.5	22.5	-	35	45.5
Handwheel	inch	-	-	3.54	4.33	5.11	-	9.84	9.84
	mm	-	-	90	110	130	-	250	250
WEIGHT	lb	-	-	18.9	32.6	40.3	-	84.8	90.3
	kg	-	-	8.6	14.8	18.3	-	38.5	41
FIGURE	BT D33F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	6.02	7.00	7.99	-	9.01	10.5
	mm	-	-	153	178	203	-	229	267
B Open	inch	-	-	15.7	16.3	16.9	-	19.6	19.9
	mm	-	-	398	415	430	-	498	507
C	inch	-	-	0.35	0.51	0.69	-	1.16	1.37
	mm	-	-	9	13	17.5	-	29.5	35
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	12.7	14.9	22.6	-	42.5	56.8
	kg	-	-	5.8	6.8	10.3	-	19.3	25.8
FIGURE	BT D3F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

CLASS 600

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	-	-	6.49	7.51	8.50	-	9.48	11.5
	mm	-	-	165	191	216	-	241	292
B Open	inch	-	-	19.4	20.6	21.4	-	25.9	27.1
	mm	-	-	495	523	545	-	660	690
C	inch	-	-	0.51	0.69	0.89	-	1.37	1.79
	mm	-	-	13	17.5	22.5	-	35	45.5
Handwheel	inch	-	-	3.54	4.33	5.11	-	9.84	9.84
	mm	-	-	90	110	130	-	250	250
WEIGHT	lb	-	-	19.3	33.0	40.7	-	85.9	92.5
	kg	-	-	8.8	15	18.5	-	39	42
FIGURE	BT D66F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	

REDUCED 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	-	-	6.49	7.51	8.50	-	9.48	11.5
	mm	-	-	165	191	216	-	241	292
B Open	inch	-	-	15.7	16.3	16.9	-	19.6	19.9
	mm	-	-	398	415	430	-	498	507
C	inch	-	-	0.35	0.51	0.69	-	1.16	1.37
	mm	-	-	9	13	17.5	-	29.5	35
Handwheel	inch	-	-	3.54	3.54	4.33	-	5.11	7.08
	mm	-	-	90	90	110	-	130	180
WEIGHT	lb	-	-	13.8	16	23.3	-	44.7	59
	kg	-	-	6.3	7.3	10.6	-	20.3	26.8
FIGURE	BT D6F								
PACKING	-	-	T2	T3	T5	-	T6	T27	
GASKET	-	-	40x30	40x30	48x38	-	66x54	74x60	



Design construction:

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 for RB

Oval ring joint gasket retained type Integral backseat for FB

Socket weld Ends to ANSI B16.11

Screwed Ends (NPT) to ANSIB1.20.1

Butt Welding Ends to ANSI B.16.25

Ring - Joint Gasket to ANSI B16.20 - API 6A

Ratings:

- carbon steel class 800 1975 psig @ 100° F

138 bar + 38° C

- carbon steel class 1500 3705 psig @ 100° F

255 bar + 38° C

GLOBE VALVES

CLASS 800

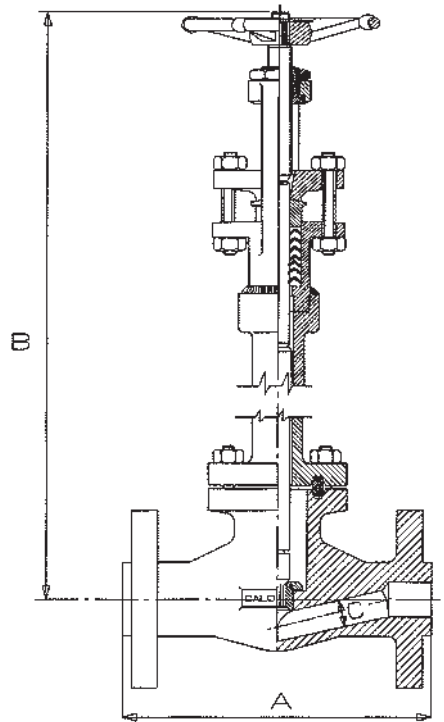
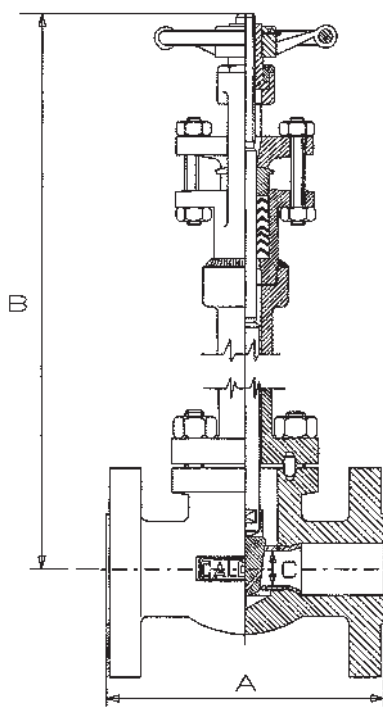
FULL BORE									
SIZE	inch	1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
	mm	6	10	15	20	25	32	40	50
A	inch	3.14	3.14	3.54	4.33	5.00	6.10	6.69	8.26
	mm	80	80	90	110	127	155	170	210
B Open	inch	15.7	15.7	16.3	16.9	18.2	19.6	20.0	22.3
	mm	398	398	415	430	463	498	507	567
C	inch	0.28	0.35	0.51	0.69	0.89	1.16	1.37	1.79
	mm	7	9	13	17.5	22.5	29.5	35	45.5
Handwheel	inch	2.75	3.54	3.54	4.33	5.11	5.11	7.08	7.08
	mm	70	90	90	110	130	130	180	180
WEIGHT	lb	7.7	7.7	8.4	14.7	21.6	28.2	39.2	60.1
	kg	3.5	3.5	3.8	6.7	9.8	12.8	17.8	27.3
FIGURE	BT D88								
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
	mm	80	90	110	127	155	170
B Open	inch	15.7	16.3	16.9	18.2	19.6	20.0
	mm	398	415	430	463	498	507
C	inch	0.35	0.51	0.69	0.89	1.16	1.37
	mm	9	13	17.5	22.5	29.5	35
Handwheel	inch	3.54	3.54	4.33	5.11	5.11	7.08
	mm	90	90	110	130	130	180
WEIGHT	lb	7.7	8.4	14.7	21.6	28.2	39.2
	kg	3.5	3.8	6.7	9.8	12.8	17.8
FIGURE	BT D8						
PACKING	T2	T3	T5	T25	T6	T27	
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	16.1	16.1	16.7	18.1	19.4	19.6	22.0	22.2
	mm	410	410	425	460	494	500	560	566
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	3.54	3.54	4.33	5.11	5.11	7.08	7.08	7.08
	mm	90	90	110	130	130	180	180	180
WEIGHT	lb	9.0	9.0	14.9	25.3	29.7	40.3	69.3	68.2
	kg	4.1	4.1	6.8	11.5	13.5	18.3	31.5	31
FIGURE	BT D1515								
PACKING	T3	T3	T5	T6	T27	T8	T918		
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	6.10	6.69	8.26
	mm	90	110	127	155	170	210
B Open	inch	16.1	16.7	18.1	19.4	19.6	22.0
	mm	410	425	460	494	500	560
C	inch	0.35	0.51	0.67	0.83	1.10	1.30
	mm	9	13	17	21	28	33
Handwheel	inch	3.54	4.33	5.11	5.11	7.08	7.08
	mm	90	110	130	130	180	180
WEIGHT	lb	9.0	14.9	25.3	29.7	40.3	69.3
	kg	4.1	6.8	11.5	13.5	18.3	31.5
FIGURE	BT D15						
PACKING	T3	T5	T6	T6	T27	T8	
GASKET	40x30	40x30	48x38	54x44	66x54	74x60	



Design construction:

BS 5352

Testing according to API 598 - BS 6755

Marking MSS SP25

Outside Screw and Yoke (OS&Y)

Self aligning packing gland

Oval ring-joint gasket retained type Integral backseat

Integral flanged ends to ANSI B16.5

End - To - End dimensions to ASME B16.10

Butt Welding Ends to ANSI B.16.25

Ring - Joint Gasket to ANSI B16.20 - API 6A

Ratings:

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

GATE VALVES

CLASS 1500

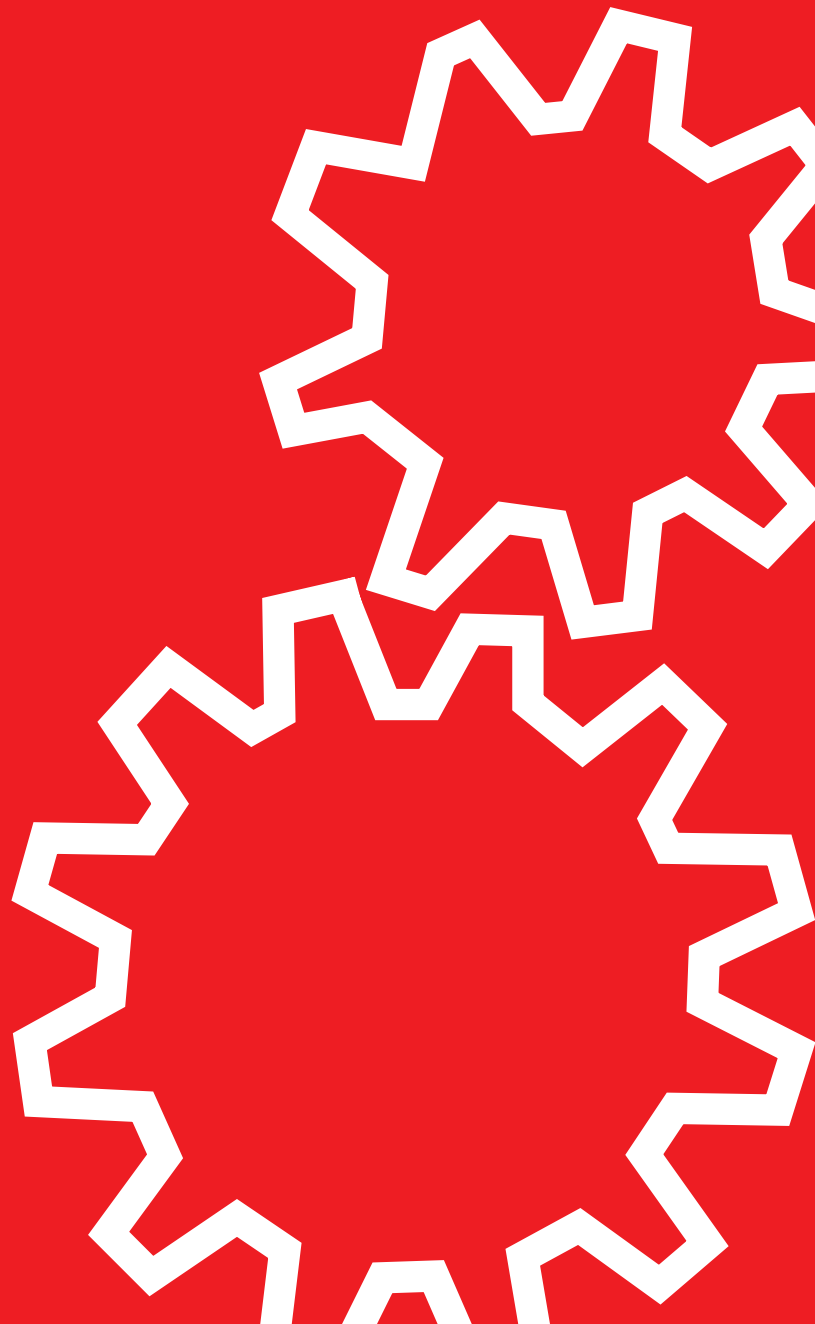
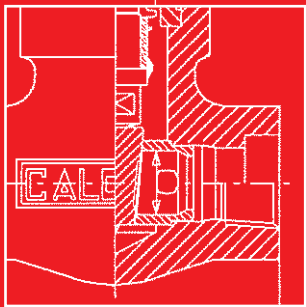
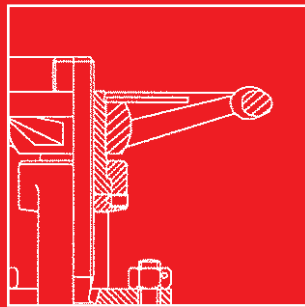
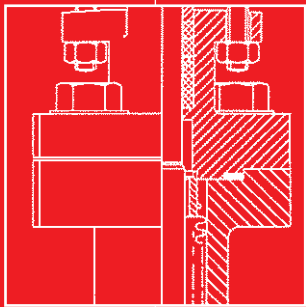
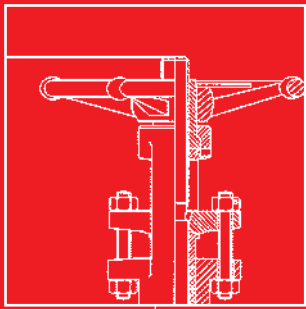
FULL BORE		1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
SIZE	inch mm	6	10	15	20	25	32	40	50
A	inch	-	-	8.50	9.01	10.0	-	12.0	14.5
	mm	-	-	216	229	254	-	305	368
B Open	inch	-	-	18.7	20.0	21.1	-	23.4	25.3
	mm	-	-	475	510	537	-	595	643
C	inch	-	-	0.55	0.75	0.94	-	1.45	1.89
	mm	-	-	14	19	24	-	37	48
Handwheel	inch	-	-	4.33	5.11	9.84	-	11.8	11.8
	mm	-	-	110	130	250	-	300	300
WEIGHT	lb	-	-	30.4	47.3	53.9	-	103.5	156.3
	kg	-	-	13.8	21.5	24.5	-	47	71
FIGURE	BT RJ S1515F								
PACKING	-	-	T5	T6	T6	-	T8	T918	
GASKET	-	-	RJ-13	RJ-16	RJ-17	-	RJ-21	RJ-24	

GLOBE VALVES

CLASS 1500

FULL BORE		1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
SIZE	inch mm	6	10	15	20	25	32	40	50
A	inch	-	-	8.50	9.01	10.0	-	12.0	14.5
	mm	-	-	216	229	254	-	305	368
B Open	inch	-	-	20.0	21.6	21.65	-	25.2	26.3
	mm	-	-	510	550	550	-	640	670
C	inch	-	-	0.51	0.67	0.83	-	1.30	1.48
	mm	-	-	13	17	21	-	33	37.5
Handwheel	inch	-	-	4.33	5.11	5.11	-	9.84	11.8
	mm	-	-	110	130	130	-	250	300
WEIGHT	lb	-	-	30.5	47.3	55.0	-	101.3	160.8
	kg	-	-	13.8	21.5	25	-	46	73
FIGURE	BT RJ D1515F								
PACKING	-	-	T5	T6	T6	-	T8	T918	
GASKET	-	-	RJ-13	RJ-16	RJ-17	-	RJ-21	RJ-23	

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

