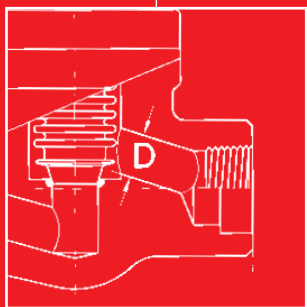
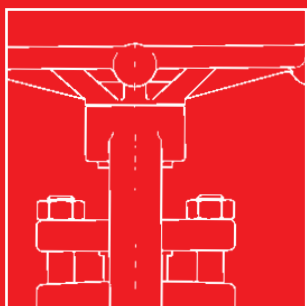


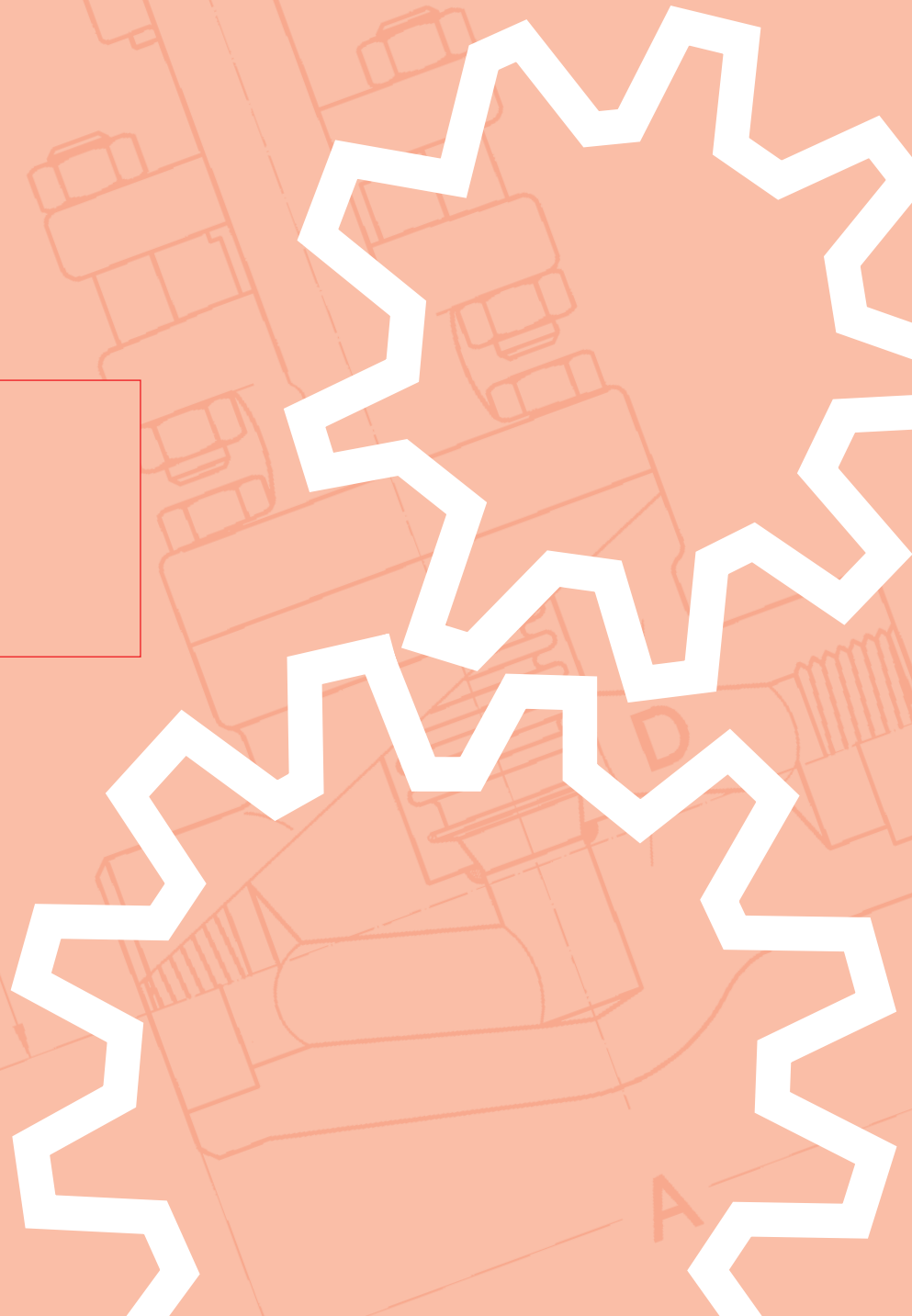
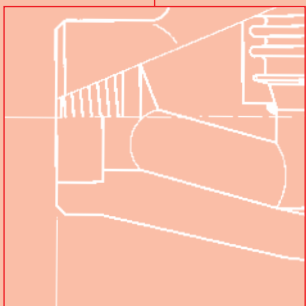
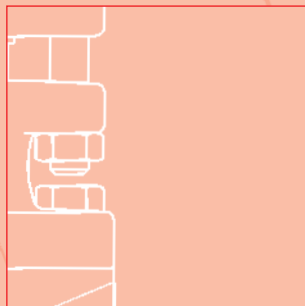
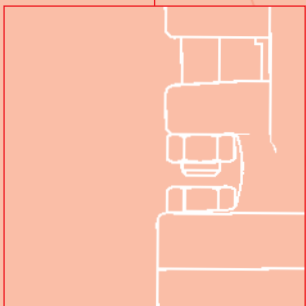
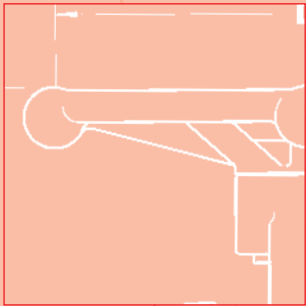
# ECO - L - VALVE®



The important feature of Eco-L-Valve is that the bellows can be replaced, the entire procedure does not require more than 15 minutes of maintenance time. By utilizing this arrangement, preventative maintenance can be a meaningful strategy to help optimize the service life of these valves, especially when very high levels of cycles are needed. Another significant feature of the Eco-L-Valve is its compact height. The cyclic efficiency of the bellows stem seal, makes it possible to supply a valve with a height comparable to a packed valve thereby allowing direct replacement in existing piping systems. Introduction of the Eco-L-Valve to the marketplace was planned so as to offer a reasonably priced bellows seal product with easily replaced parts. These characteristics justified useage in a myriad of applications within a process plant where a leak tight performance and economical pricing are a necessity.

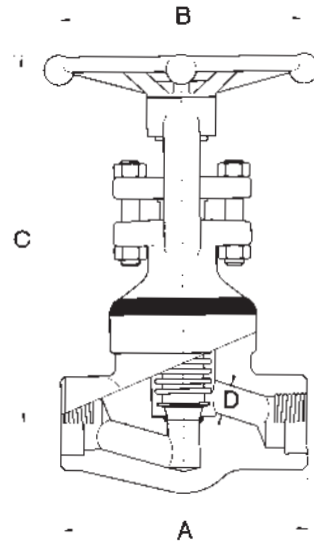
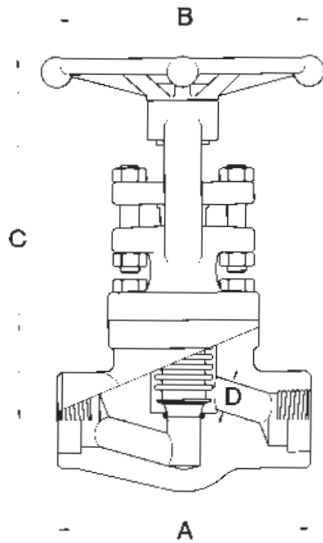
CLASS	DESIGN	CONNECTION	PORT	STANDARD	Screw & Yoke	ENDS	CALOBRI
800	Globe	Bolted Bonnet	Reduced	API602	Outside	Threaded and Socket Weld ends	E D8
800	Globe	Bolted Bonnet	Full	API602	Outside	Threaded and Socket Weld ends	E D88
800	Globe	Welded Bonnet	Reduced	API602	Outside	Threaded and Socket Weld ends	E WD8
800	Globe	Welded Bonnet	Full	API602	Outside	Threaded and Socket Weld ends	E WD88
150	Globe	Bolted Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E D1
300	Globe	Bolted Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E D3
600	Globe	Bolted Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E D6
150	Globe	Welded Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E WD1
300	Globe	Welded Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E WD3
600	Globe	Welded Bonnet	Reduced	API602	Outside	Integral Flanged to ASME B16.5	E WD6
800	Globe Y Pattern	Welded Bonnet	Full	API602	Outside	Threaded and Socket Weld ends	E W-YD8
150	Globe Y Pattern	Welded Bonnet	Reduced	API602	Outside	Welded Flanged to ASME B16.5	E W-YD1
300	Globe Y Pattern	Welded Bonnet	Reduced	API602	Outside	Welded Flanged to ASME B16.5	E W-YD3
600	Globe Y Pattern	Welded Bonnet	Reduced	API602	Outside	Welded Flanged to ASME B16.5	E W-YD6

**Class 800 - 150 - 300 - 600**  
**Bolted Bonnet - Welded Bonnet**



Design construction:  
API 602  
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  
Socket weld Ends to ANSI B16.11  
Screwed Ends (NOT) to ANSIB1.20.1



## CLASS 800

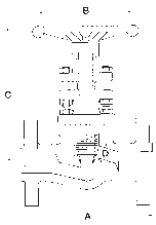
BOLTED BONNET										
FULL BORE			1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
End to End	A	inch mm	3.14 80	3.14 80	3.54 90	4.33 110	5.00 127	6.10 155	6.69 170	8.26 210
Handwheel	B	inch mm	3.14 80	3.14 80	3.14 80	4.33 110	5.11 130	7.08 180	7.08 180	7.08 180
Center to Top Open	C	inch mm	5.34 136	5.34 136	5.65 144	6.57 167	7.63 194	8.64 220	9.03 230	10.2 260
Dia. of Port	D	inch mm	0.28 7	0.35 9	0.51 13	0.69 17.5	0.89 22.5	1.16 29.5	1.38 35	1.79 45.5
Approx. WEIGHT	-	Lb Kg	3.7 1.7	3.7 1.7	5.0 2.3	7.9 3.6	12.9 5.9	16.5 7.5	25.5 11.6	45.8 20.8
FIGURE	E D88									

BOLTED BONNET								
REDUCED BORE			1/2	3/4	1	1.1/4	1.1/2	2
End to End	A	inch mm	3.14 80	3.54 90	4.33 110	5.00 127	6.10 155	6.69 170
Handwheel	B	inch mm	3.14 80	3.14 80	4.33 110	5.11 130	7.08 180	7.08 180
Center to Top Open	C	inch mm	5.34 136	5.65 144	6.57 167	7.63 194	8.64 220	9.03 230
Dia. of Port	D	inch mm	0.35 9	0.51 13	0.69 17.5	0.89 22.5	1.16 29.5	1.38 35
Approx. WEIGHT	-	Lb Kg	3.7 1.7	5.0 2.3	7.9 3.6	12.9 5.9	16.5 7.5	25.5 11.6
FIGURE	E D8							

## CLASS 800

WELDED BONNET										
FULL BORE			1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
End to End	A	inch mm	3.14 80	3.14 80	3.54 90	4.33 110	5.00 127	6.10 155	6.69 170	8.26 210
Handwheel	B	inch mm	3.14 80	3.14 80	3.14 80	4.33 110	4.33 110	7.08 180	7.08 180	7.08 180
Center to Top Open	C	inch mm	3.54 136	3.54 136	5.65 144	6.57 167	7.63 194	8.64 220	9.03 230	10.2 260
Dia. of Port	D	inch mm	0.28 7	0.35 9	0.51 13	0.69 17.5	0.89 22.5	1.16 29.5	1.38 35	1.79 45.5
Approx. WEIGHT	-	Lb Kg	3.7 1.7	3.7 1.7	5.0 2.3	7.9 3.6	12.9 5.9	16.0 7.3	23.1 10.5	41.8 19.0
FIGURE	EW D88									

WELDED BONNET								
REDUCED BORE			1/2	3/4	1	1.1/4	1.1/2	2
End to End	A	inch mm	3.14 80	3.54 90	4.33 110	5.00 127	6.10 155	6.69 170
Handwheel	B	inch mm	3.14 80	3.14 80	4.33 110	4.33 110	7.08 180	7.08 180
Center to Top Open	C	inch mm	3.54 136	5.65 144	6.57 167	7.63 194	8.64 220	9.03 230
Dia. of Port	D	inch mm	0.35 9	0.51 13	0.69 17.5	0.89 22.5	1.16 29.5	1.38 35
Approx. WEIGHT	-	Lb Kg	3.7 1.7	5.0 2.3	7.9 3.6	12.9 5.9	16.0 7.3	23.1 10.5
FIGURE	EW D8							



Design construction:  
API 602  
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  
Socket weld Ends to ANSI B16.11  
Screwed Ends (NOT) to ANSIB1.20.1  
Butt Welding Ends to ANSI B.16.25  
End to end dimensions according to ANSI B16.10

## CLASS 150 - 300 - 600

<b>BOLTED BONNET - Integral Flanged Ends according to ANSI B15.5</b>									
<b>REDUCED BORE</b>			1/2	3/4	1	1.1/4	1.1/2	2	
End to End	Class 150	A	inch 4.25 108	4.64 118	5.00 127	-	6.49 165	7.99 203	
		A	inch 6.02 153	7.00 178	7.99 203	-	9.01 229	10.5 267	
	Class 600	A	inch 6.49 165	7.51 191	8.50 216	-	9.48 241	11.50 296	
Handwheel		B	inch 3.14 80	3.14 80	4.33 110	-	5.11 130	7.08 180	
Center to Top open	Class 300/600		C	inch 5.35 136	5.67 144	6.57 167	-	8.66 220	9.05 230
	Class 150		C	inch 6.22 158	6.92 176	7.56 192	-	8.66 220	9.05 230
Dia. of Port		D	inch 0.35 9	0.51 13	0.69 17.5	-	1.16 29.5	1.38 35	
Approx. Weight	Class 150	Lb	7.5	8.8	12.5	-	19.8	38.5	
		Kg	3.4	4	5.7	-	9	17.5	
	Class 300	Lb	8.8	11.0	16.1	-	30.8	40.0	
		Kg	4	5	7.3	-	14	18.2	
	Class 600	Lb	9.9	12.1	16.5	-	33.0	44.0	
		Kg	4.5	5.5	7.5	-	15.0	20.0	
FIGURE								E D1	
								E D3	
								E D6	

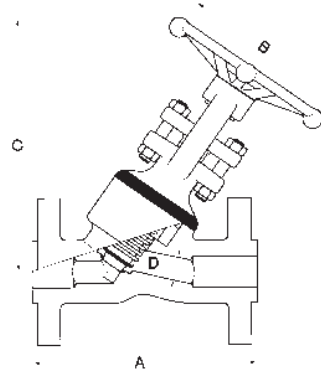
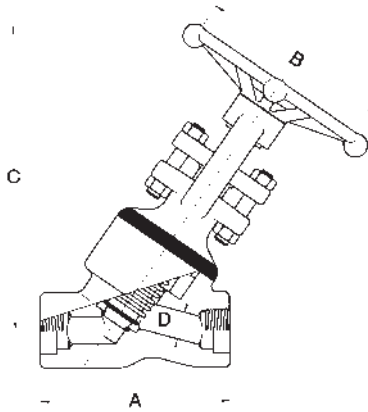
## CLASS 150 - 300 - 600

<b>WELDED BONNET - Integral Flanged Ends according to ANSI B15.5</b>									
<b>REDUCED BORE</b>			1/2	3/4	1	1.1/4	1.1/2	2	
End to End	Class 150	A	inch 4.25 108	4.64 118	5.00 127	-	6.49 165	7.99 203	
		A	inch 6.02 153	7.00 178	7.99 203	-	9.01 229	10.5 267	
	Class 600	A	inch 6.49 165	7.51 191	8.50 216	-	9.48 241	11.50 296	
Handwheel		B	inch 3.14 80	3.14 80	4.33 110	-	5.11 130	7.08 180	
Center to Top open	Class 300/600		C	inch 5.35 136	5.67 144	6.57 167	-	8.66 220	9.05 230
	Class 150		C	inch 6.22 158	6.92 176	7.56 192	-	8.66 220	9.05 230
Dia. of Port		D	inch 0.35 9	0.51 13	0.69 17.5	-	1.16 29.5	1.38 35	
Approx. Weight	Class 150	Lb	7.5	8.8	12.5	-	19.8	38.5	
		Kg	3.4	4	5.7	-	9	17.5	
	Class 300	Lb	8.8	11.0	16.1	-	30.8	40.0	
		Kg	4	5	7.3	-	14	18.2	
	Class 600	Lb	9.9	12.1	16.5	-	33.0	44.0	
		Kg	4.5	5.5	7.5	-	15.0	20.0	
FIGURE								EW D1	
								EW D3	
								EW D6	

Design construction:  
API 602  
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  
Socket weld Ends to ANSI B16.11

Screwed Ends (NOT) to ANSIB1.20.1  
Flanged End to End dimensions  
according to ANSI B16.5



## CLASS 800

### WELDED BONNET - Threaded and Socket Weld Ends

FULL BORE			1/4	3/8	1/2	3/4	1	1.1/4	1.1/2	2
End to End	A	inch	3.54	3.54	3.54	3.54	5.00	5.00	6.10	7.08
		mm	90	90	90	90	127	127	155	180
Handwheel	B	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
Center to Top Open	C	inch	6.10	6.10	6.10	6.88	8.66	9.44	11.02	12.6
		mm	155	155	155	175	220	240	280	320
Dia. of Port	D	inch	0.28	0.35	0.51	0.69	0.89	1.16	1.38	1.79
		mm	7	9	13	17.5	22.5	29.5	35	45.5
Approx. WEIGHT	-	Lb	3.3	3.3	3.3	4.85	9.9	11.6	19.8	20.2
		Kg	1.5	1.5	1.5	2.2	4.5	5.3	9.0	9.2
FIGURE			EW-YD8							

## CLASS 150 - 300 - 600

### WELDED BONNET - Welded Flange Ends Full Port

REDUCED BORE			1/2	3/4	1	1.1/4	1.1/2	2	
End to End	Class 150	A inch	4.25	4.64	5.00	-	6.49	7.99	
		mm	108	118	127	-	165	203	
	Class 300	A inch	6.02	7.00	7.99	-	9.01	10.5	
mm		153	178	203	-	229	267		
Class 600	A inch	6.49	7.51	8.50	-	9.48	11.50		
	mm	165	191	216	-	241	296		
Handwheel	B	inch	3.14	4.33	5.11	-	7.08	7.08	
		mm	80	110	130	-	180	180	
Center to Top open	C	inch	6.10	6.88	8.66	-	11.02	12.6	
		mm	155	175	220	-	280	320	
Dia. of Port	D	inch	0.51	0.68	0.88	-	1.37	1.79	
		mm	13	17.5	22.5	-	35	45.5	
Approx. Weight	Class 150	Lb	7.04	8.8	15.8	-	32.8	39.6	
		Kg	3.2	4	7.2	-	14.9	18	
	Class 300	Lb	9.25	12.5	23.5	-	36.1	44.0	
		Kg	4.2	5.7	10.7	-	16.4	20	
	Class 600	Lb	10.3	13.2	25.7	-	38.3	48.4	
		Kg	4.7	6	11.7	-	17.4	22	
FIGURE			EW-YD1						
			EW-YD3						
			EW-YD6						