BURLING VALVE | HOW TO ORDER

Model		Size		Type		Body Material		Top Material		Rating (psi)		End Connection		Trim	
BS	Spring	0.5	1/2"	1	Direct Acting	A	Aluminum	A	Aluminum	1	125	1	NPT	1	17-4 PH SS
BD	Dome	.75	3/4"	2	Differential	I	Cast Iron	I	*Cast Iron	2	150	2	Flange	2	316L SS
		1.0	1"	3	Dome	B	Bronze	B	*Bronze	3	250	3	Tube End	3	Monel
		1.5	1.5"	4	Dome/Return Spring	C	Carbon Steel	C	Carbon Steel	4	300	4	Butt Weld	4	Hybrid (Monel & 316L)
		2.0	2"	5	Back Pressure Spring	S	Stainless Steel	S	Stainless Steel	5	600	5	Socket Weld	5	Alloy 20 Stainless Steel
		3.0	3"	6	Back Pressure Dome	H	Hastelloy	H	Hastelloy	6	700	6	Swagelok Fittings	6	Hastelloy
		4.0	4"	7	Pilot Actuated					7	1500	8	*Tri-Clamp		
				8	Back Pressure Differential					8	900	9	SAE		
				9	Dome/Small Piston										

* BD only- please select Carbon Steel or Stainless Steel for BS Spring Chambers

*Tri-Clamp will use a body that is one size smaller than chosen (ex. BS2.0 will use 1.5" body)

Top Spring Range		Seat		Membrane		Dynamic Seal		Static Seal		Return Spring		Trim Variation		Sensing		Flow		Special	
0	None	1	Polyurethane	0	None	1	PTFE U-Cup	2	Buna-N	0	None	#	See Table B	0	*Non-Sensing	1	Normal	0	None
#	See Table A	2	PTFE	1	Neoprene	2	RTFE U-Cup	3	Viton	1	1-3 PSI			1	Internal	2	Reverse	1	1/4" Body Taps
		3	RTFE	2	PTFE 6-Ply	3	Polyurethane U-Cup	4	Fluoro-Silicone	2	2-7 PSI			2	External			3	Negative Differential
		4	Kel-F	3	Viton	4	Viton U-Cup	5	EPDM	3	3-15 PSI			3	Ratio			4	Oxygen Cleaned
		5	70 Durometer Polyurethane	4	EPDM	5	EPDM U-Cup	6	PTFE					*9 Type Only				6	Tamper-Proof Cap
		6	EPDM	5	Metal (316SS)	6	Nitrile U-Cup											7	Handwheel
		7	Viton	6	Fluoro-Silicone													8	Gauge
		8	Nitrile	7	Buna-N													9	6" Flange on 4" Body
		9	TFM	A	PTFE Faced Viton													A	Low Pressure
				B	PTFE Faced Buna-N													B	Special Face to Face
				C	PTFE Faced EPDM													C	1/2" NPT Dome Tap
				D	PTFE Faced Neoprene													D	8" Flange on 4" Body
				E	Metal (17-7)													E	High Pressure
				F	Metal (BeCu)														
				G	Viton (Reduced Thickness)														
				H	Poly														
				I	Monel														
				J	PTFE 5-Ply														

N/A

N/A

List multiple options in alphanumerical order

Color Key

= Requires Adder Fee

= Consult Factory for Pricing & Availability

= Low Pressure: Consult Factory

Example: BS1.0-1CC5114-113201110

BS	Spring Regulator
1.0	1" Connections
-	(hyphen)
1	Direct Acting
C	Carbon Steel Body
C	Carbon Steel Top
5	600# ANSI Rating
1	NPT Connections
1	17-4PH Trim
4	20-80 PSIG Spring Range
-	(hyphen)
1	Polyurethane Seat
1	Neoprene Membrane
3	Polyurethane Dynamic Seal
2	Buna-N Static Seals
0	No Lower Return Spring
1	Full Area Trim
1	Internal Sensing
1	Normal Flow
0	No Special Options

Table A: Top Spring Rating (psi)

Standard Spring Ranges				
#	0.5 .75 & 1.0	1.5	2.0	3.0 & 4.0
1	1 to 10	1 to 10	1 to 5	1 to 10
2	2 to 20	5 to 20	4 to 15	5 to 20
3	10 to 35	15 to 45	10 to 30	10 to 40
4	20 to 80	10 to 70	15 to 50	10 to 70
5	30 to 150	40 to 125	30 to 90	40 to 125
6	70 to 200	70 to 200	50 to 150	100 to 500
7	100 to 300			
B	0.5 to 5			

Heavy Spring Ranges (Requires Heavy Spring Chamber)				
#	0.5 .75 & 1.0	1.5	2.0	3.0 & 4.0
8	200 to 650	100 to 400	80 to 300	

Negative Bias Spring Ranges				
#	0.5 .75 & 1.0	1.5	2.0	3.0 & 4.0
9	-1 to 20	-2 to 20	-1 to 15	
A	-20 to 50	-20 to 50	-20 to 50	

Table B: Trim Variation & Cv Selection

Size	Elast. Membrane Press. Reducing		Elast. Membrane Backpressure		Metal Membrane All Types	
	#	Cv	#	Cv	#	Cv
0.5	1	4.0	1	4.0	1	4.0
	2	3.0	2	3.0	2	3.27
	3	2.4	3	2.0	3	2.64
	4	1.5	4	1.0	4	1.98
	5	0.60			5	1.4
					6	1.12
					7	0.70
					8	0.28
.75	1	8.0	1	8.0	1	5.0
	2	7.01	2	4.0	2	3.27
	3	5.66	3	3.0	3	2.64
	4	4.25	4	2.0	4	1.98
	5	3.0	5	1.0	5	1.4
	6	2.4			6	1.12
	7	1.5			7	0.70
	8	0.60			8	0.28
1.0	1	15.0	1	12.0	1	7.0
	2	11.82	2	4.0	2	5.52
	3	7.01	3	3.0	3	3.27
	4	5.66	4	2.0	4	2.64
	5	4.25	5	1.0	5	1.98
	6	3.0			6	1.4
	7	2.4			7	1.12
	8	1.5			8	0.70
	9	0.60			9	0.28
1.5	1	30.0	1	24.0	1	9.0
	2	15.0			2	4.5
	3	12.0			3	3.6
	4	9.0			4	2.7
	5	6.0			5	1.8
2.0	1	60	1	48	1	15
	2	47	2	16	2	11.75
	3	30	3	12	3	7.5
	4	20	4	8	4	5.0
	5	15	5	4	5	3.75
3.0	1	120	1	120	1	60
	2	50			2	25
	3	40			3	20
	4	30			4	15
	5	20			5	10
4.0	1	220	1	175	1	80
	2	50			2	18.18
	3	40			3	14.5
	4	30			4	10.9
	5	20			5	7.3