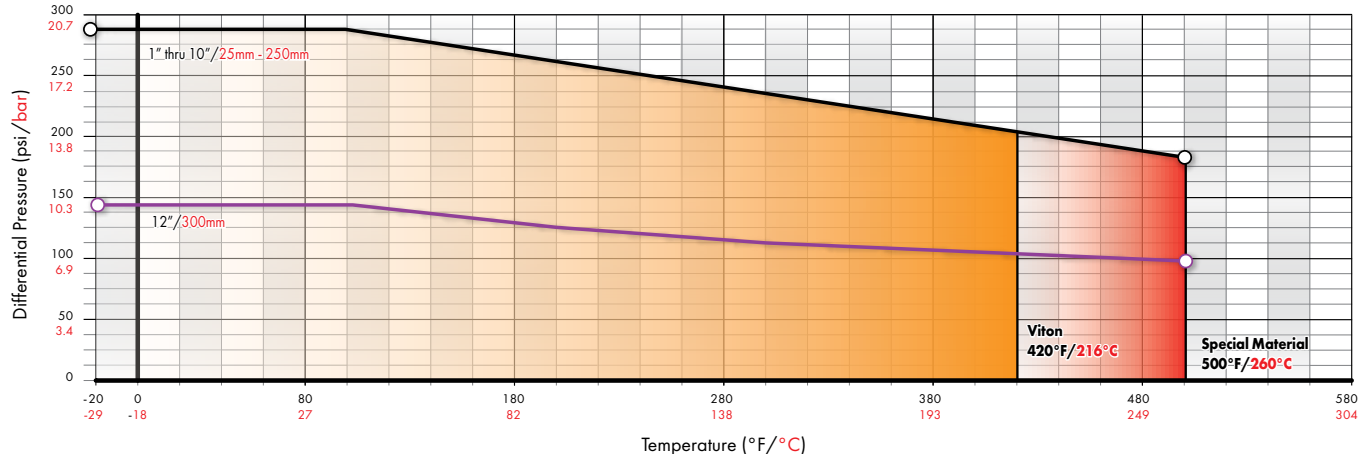
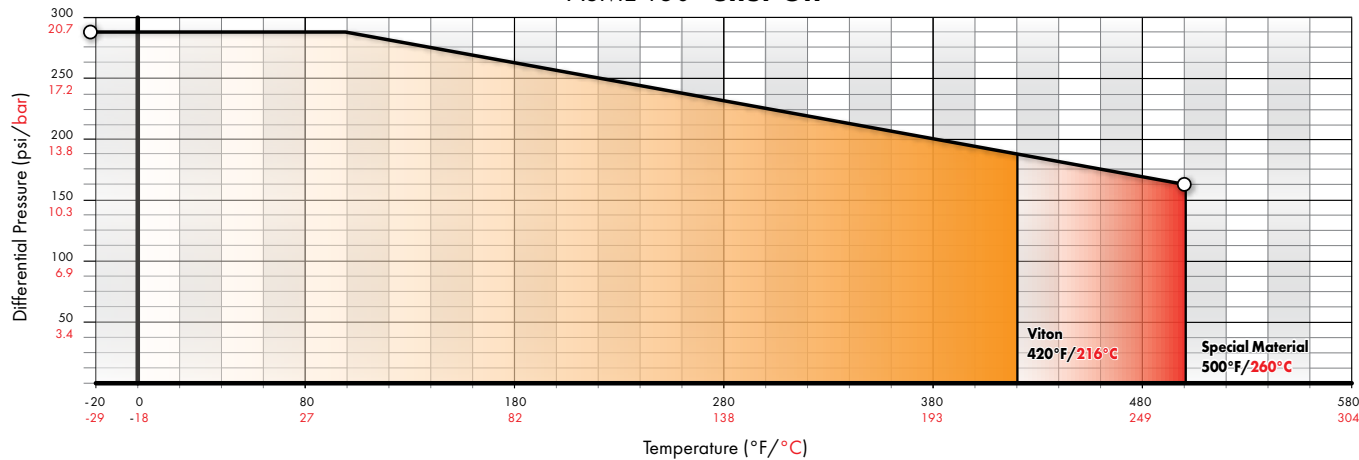


## S19 SEGMENTED BALL VALVE: PRESSURE & TEMPERATURE CHARTS

ASME 150 - **Control**

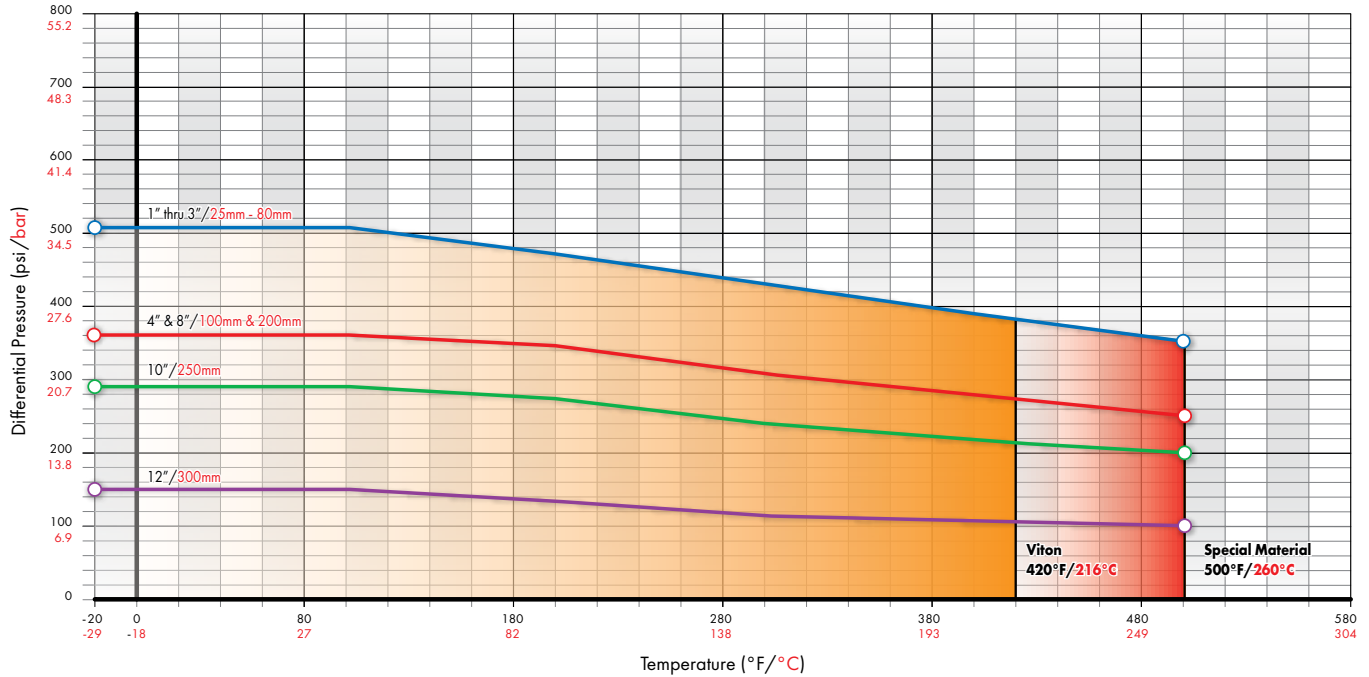


ASME 150 - **Shut-Off**

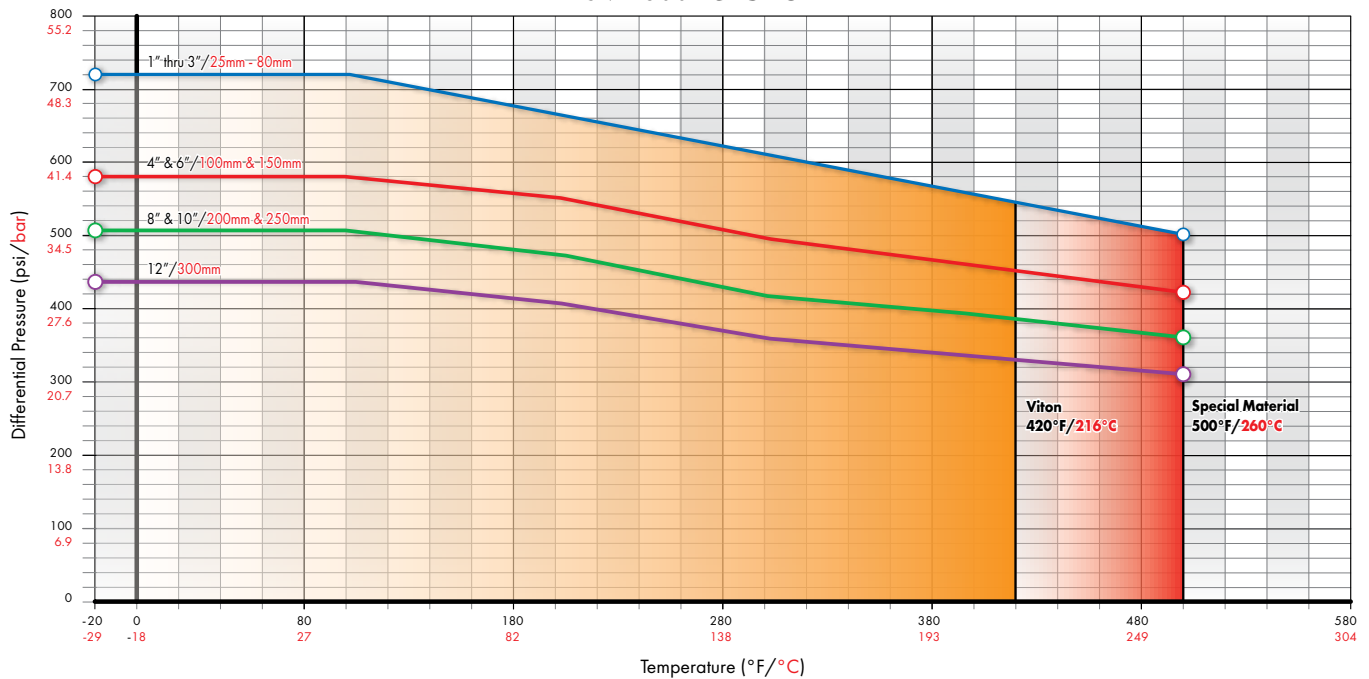


## S19 SEGMENTED BALL VALVE: PRESSURE & TEMPERATURE CHARTS

### ASME 300 - Control



### ASME 300 - Shut-Off



## S 19 SEGMENTED BALL VALVE: EZ MOUNTING KITS

### S19 – Mounting Kits for Pneumatic Actuator (“Double D” Drive)

Valve Size (ins.)	Mounting Kit Code								
	B048	B063*	B083	B093	B119	B128	B160A	B210	B255A
1	EZ-200D	EZ-200D	EZ-201D	EZ-201D					
1.50	EZ-200D	EZ-200D	EZ-201D	EZ-201D					
2		EZ-202D	EZ-203D	EZ-203D	EZ-204D	EZ-204D			
3			EZ-205D	EZ-205D	EZ-206D	EZ-206D			
4			EZ-205D	EZ-205D	EZ-206D	EZ-206D			
6					EZ-207D	EZ-207D	EZ-207D	EZ-208D	
8					EZ-209D	EZ-209D	EZ-209D	EZ-210D	EZ-211D
10					EZ-209D	EZ-209D	EZ-209D	EZ-210D	EZ-211D
12					EZ-209D	EZ-209D	EZ-209D	EZ-210D	EZ-211D

### S19 – Mounting Kits for Pneumatic Actuator (“S” Drive)

Valve Size (ins.)	Mounting Kit Code								
	B048	B063	B083	B093	B119	B128	B160	B210	B255
1	EZ-212S	EZ-212S	EZ-213S	EZ-213S					
1.50	EZ-212S	EZ-212S	EZ-213S	EZ-213S					
2			EZ-214S	EZ-214S	EZ-215S	EZ-215S			
3					EZ-216S	EZ-216S			
4					EZ-216S	EZ-216S			
6					EZ-217S	EZ-217S	EZ-217S	EZ-218S	
8								EZ-219S	EZ-220S
10								EZ-219S	EZ-220S
12								EZ-219S	EZ-220S

## S19 SEGMENTED BALL VALVE: SHUT-OFF TORQUE & FLOW COEFFICIENTS

### S19 – Shutoff vs. Torque, lb-in Soft Seat/Metal Seat, Class 150/300

Valve Size (ins.)	Shutoff Pressure, PSI								
	0	100	200	300	400	500	600	700	725
1	76	83	90	97	104	111	118	125	127
1.50	125	139	153	167	181	195	209	223	227
2	137	159	181	203	225	247	269	291	296
3	187	250	313	376	439	502	565	628	645
4	282	366	450	534	618	702	786		
6	409	628	847	1,066	1,285	1,504	1,723		
8	739	1,085	1,431	1,777	2,123	2,469			
10	934	1,544	2,154	2,764	3,374	3,984			
12	1,354	2,353	3,352	4,351	5,350				

Note:

1. Torque values shown are without considering safety factor.
2. Torque published for standard Bray packing.
3. Refer sizing program for Dynamic Torque requirements.

### Segmented Ball Valve Flow Coefficient Cv

Ball Rotation		S19-Segmented Ball Valve - Metal Seat - Class 150/300								
Deg	% of Open	1"	1.5"	2"	3"	4"	6"	8"	10"	12"
9	10	0.2	0.3	0.5	1	1.9	3.5	5.4	11	7
18	20	0.75	1.3	1.5	6.3	13.4	15	39	62	69
27	30	2	3.3	4.3	17.4	30	46	98	149	185
36	40	4	7.2	9.8	32.8	56	95	178	277	347
45	50	6.5	12	17	52	83	154	289	434	573
54	60	10	19	27.8	77	120	233	415	630	815
63	70	14	27	40	107.5	168	325	570	853	1120
72	80	19	38	57	145.5	229	427	747	1116	1480
81	90	26	55	83	205	311	569	985	1433	2086
90	100	33	78	133	302	460	905	1480	2430	3425

### Segmented Ball Valve Flow Coefficient Cv

Ball Rotation		S19-Segmented Ball Valve - Soft Seat - Class 150/300								
Deg	% of Open	1"	1.5"	2"	3"	4"	6"	8"	10"	12"
9	10							0	0	0
12					0	0	0	5	10	10.2
13.5					0.17	1.8	2.7	8.2	17.2	17.7
18	20	0	0	0	2.1	6	11.2	23	43	52
27	30	0.8	1.1	1.21	10.4	20.6	38.5	73	121	157
36	40	1.65	3.7	5.1	24	41	77.4	145	238	322
45	50	3.3	7.4	11.2	41	68	126	247	385	532
54	60	5.6	12.5	19.5	64	98	191.2	369	571	780
63	70	8.6	19.9	29.5	93	136	274.6	517	790	1,094
72	80	12.8	31	44	131	196	364.5	686	1,046	1,458
81	90	16.5	46	70	181	283	584	922.5	1,372	1,954
90	100	20	52	95	287	436	760	1,350	2,380	3,410

## S19 SEGMENTED BALL VALVE: FLANGE COMPATABILITY

The technical data contained herein is for general information only. Product suitability should be based solely upon customer's detailed knowledge and experience with their application.

WAFER METAL & SOFT SEAT VALVE							
Valve Size (in)	ANSI		DIN				
	#150	#300	PN 6	PN 10	PN 16	PN 25	PN 40
1 (DN 25)	✓	✓	✓	✓	✓	✓	✓
1.5 (DN 40)	✓	✓	✓	✓	✓	✓	✓
2 (DN 50)	✓	✓	✓	✓	✓	✓	✓
3 (DN 80)	✓	✓	✓	✓	✓	✓	✓
4 (DN 100)	✓	✓		✓	✓	✓	✓
6 (DN 150)	✓	✓		✓	✓	✓	✓
8 (DN 200)	✓	✓		✓			
10 (DN 250)	✓	✓		✓	✓		
12 (DN 300)							
16 (DN 400)							

FLANGED METAL & SOFT SEAT VALVE							
Valve Size (in)	ANSI		DIN				
	#150	#300	PN 6	PN 10	PN 16	PN 25	PN 40
1 (DN 25)	✓	✓					
1.5 (DN 40)	✓	✓					
2 (DN 50)	✓	✓					
3 (DN 80)	✓	✓					
4 (DN 100)	✓	✓					
6 (DN 150)	✓	✓	✓	✓	✓	✓	✓
8 (DN 200)	✓	✓	✓	✓	✓	✓	✓
10 (DN 250)	✓	✓	✓	✓	✓	✓	✓
12 (DN 300)	✓	✓	✓	✓	✓	✓	✓
16 (DN 400)	✓	✓		✓	✓	✓	✓