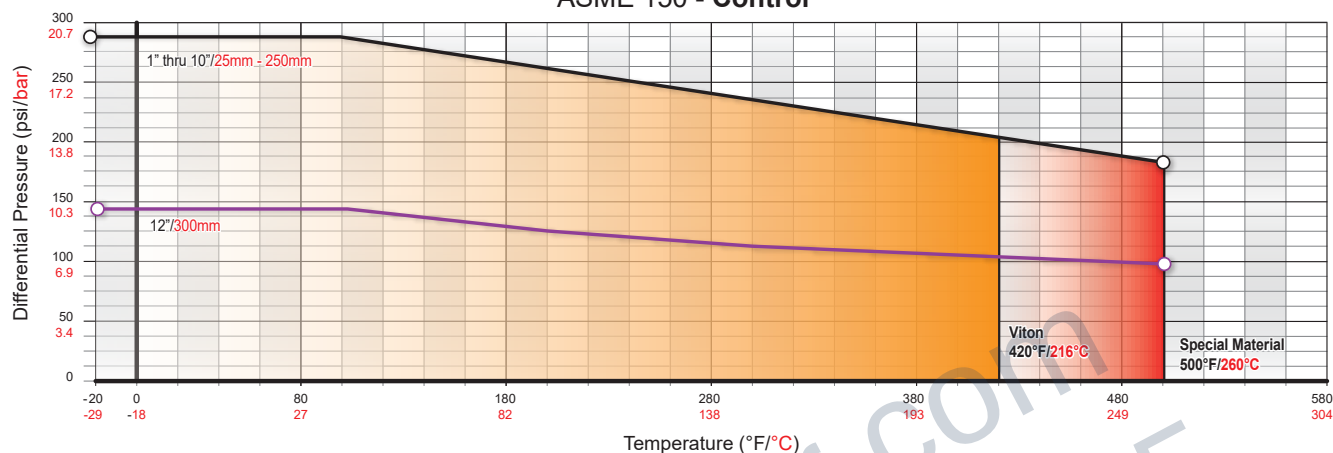
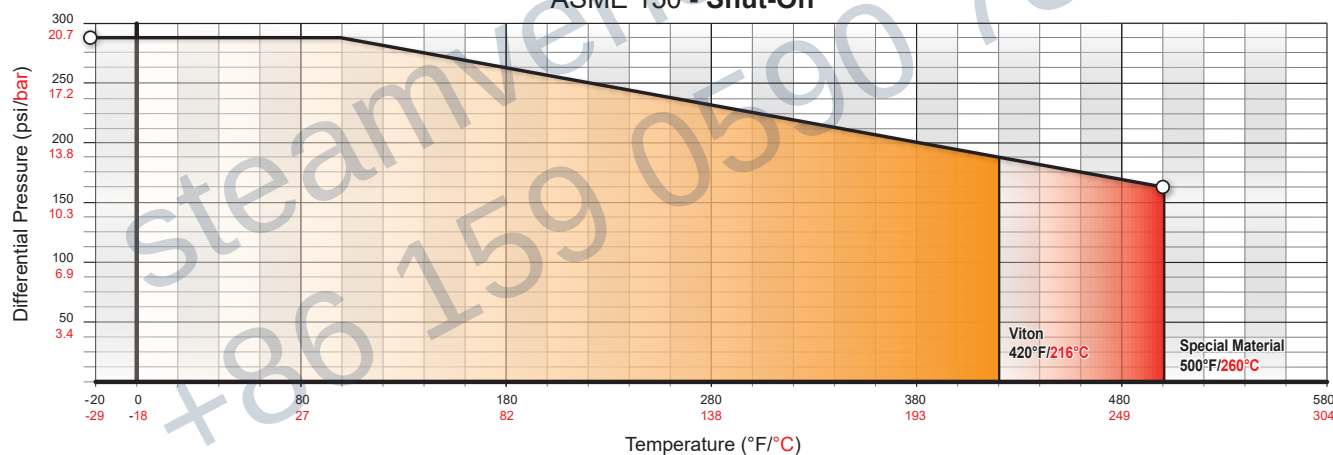


S19 SEGMENTED BALL VALVE - PRESSURE & TEMPERATURE CHARTS

ASME 150 - Control



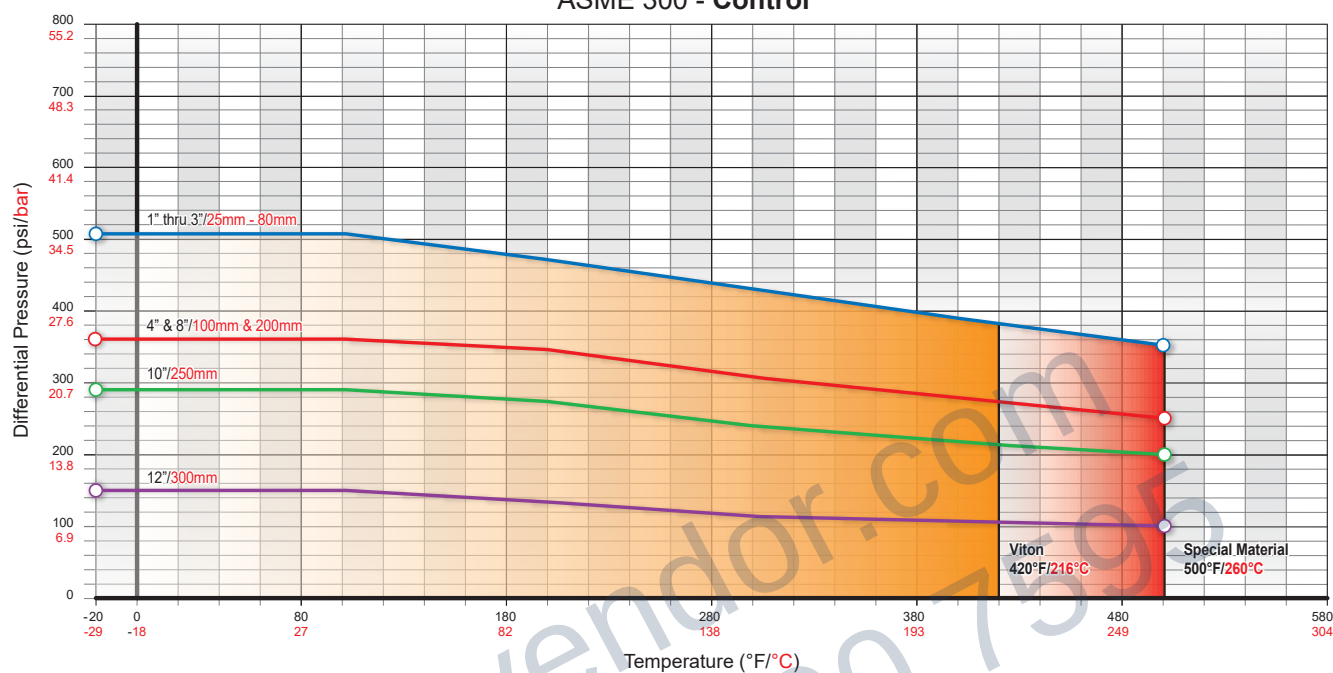
ASME 150 - Shut-Off



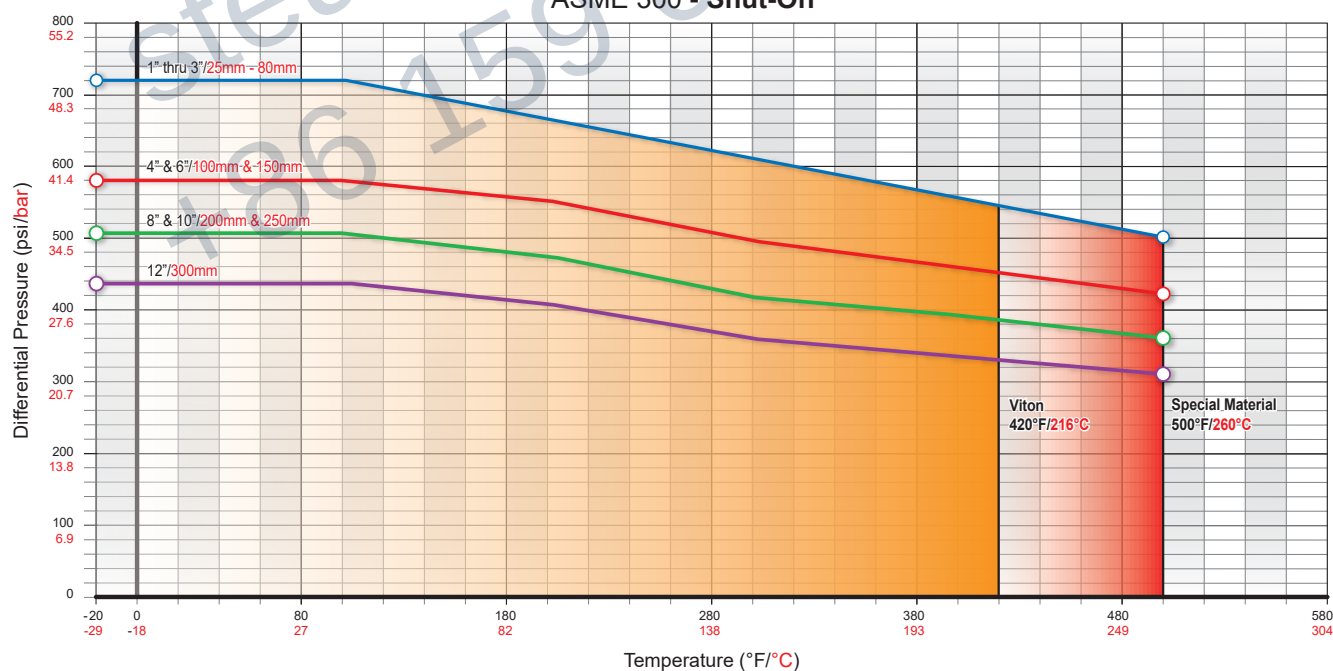
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S19 SEGMENTED BALL VALVE - PRESSURE & TEMPERATURE CHARTS

ASME 300 - Control



ASME 300 - Shut-Off



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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

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S19 SEGMENTED BALL VALVE - SHUT-OFF TORQUE

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.

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

FLOW COEFFICIENT (Cv) - (S19 Metal Seated CL150/300/600) Shaft Downstream

Valve Size (in) % Open	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1	0.2	0.8	2	4	6.5	10	14	19	26	33
1.5	0.3	1.3	3.3	7.2	12	19	27	38	55	78
2	0.5	1.5	4.3	10	17	28	40	57	83	133
2.5	0.6	5.3	13	25	40	60	84	118	164	225
3	1.0	6.3	17	33	52	77	108	146	205	302
4	1.3	10.7	25.8	49	78	115	162	222	338	584
5	2.5	18	35.8	84	136	200	284	400	560	878
6	4	17	37.1	92	151	208	308	424	595	976
8	5.4	39	98	178	289	415	570	747	985	1480
10	11	62	149	277	434	630	853	1116	1433	2430
12	7	69	185	347	573	815	1120	1480	2086	3425
14	9	138	375	697	1102	1575	2104	2849	3998	6062
16	23	218	530	983	1480	2134	2870	3846	5200	7111

FLOW COEFFICIENT (Cv) - (S19 Soft Seated CL150/300/600) Shaft Downstream

Valve Size (in) %Open	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1	0.0	0.0	0.8	1.7	3.3	5.6	8.6	12.8	16.5	20
1.5	0.0	0.0	1.1	3.7	7.4	12.5	19.9	31	46	52
2	0.0	0.0	1.2	5.1	11.2	19.5	29.5	44	70	95
2.5	0.0	2	7	17	29	46	68	97	139	214
3	0.0	2.9	11.2	24.2	42.9	66	93	127	201	299
4	0.0	4.5	15.1	33.4	62	93	134	193	294	492
5	0.0	11.1	26.3	67	110	151	225	285	438	719
6	0.0	6.8	28.7	71	119	187	256	306	488	782
8	0.0	23	73	145	247	369	517	686	923	1350
10	0.0	31.4	121	238	385	571	790	1046	1372	2380
12	0.0	33.6	159	289	483	756	1072	1450	2060	3494
14	9	138	375	697	1102	1575	2104	2849	3998	6062
16	23	218	530	983	1480	2134	2870	3846	5200	7111

FLOW COEFFICIENT (Cv) - (S19L CL150/300/600) Shaft Upstream

Valve Size (in) % Open	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1	0.0	0.1	1.1	2.9	6.5	10	14	19	26	33
1.5	0.1	0.4	1.3	3.5	7.3	15	23	33	55	78
2	0.1	1.1	4.8	13	24	43	67	95	128	139
3	0.1	3	11.3	24.7	46.3	89	142	202	278	330
4	1	10.6	28	55	98	163	248	380	550	667
6	1.9	8.9	25.5	69	132	272	411	603	790	996
8	5.4	39	98	178	289	415	570	747	985	1480
10	11	62	149	277	434	630	853	1116	1433	2430
12	7	69	185	347	573	815	1120	1480	2086	3425
14	9	138	375	697	1102	1575	2104	2849	3998	6062
16	23	218	530	983	1480	2134	2870	3846	5200	7111

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S19 SEGMENTED BALL VALVE - FLANGE COMPATABILITY

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)	✓	✓		✓	✓	✓	✓

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