

## TORQUE DATA - HIGH PERFORMANCE BFV

lbs.Inch		CLASS 150				CLASS 300			
		Actual Torque : lbf.inch				Actual Torque : lbf.inch			
		TEFLON SEAT		METAL SEAT		TEFLON SEAT		METAL SEAT	
SIZE		150 PSIG	285 PSIG	150 PSIG	285 PSIG	150 PSIG	500 PSIG	150 PSIG	500 PSIG
(mm)	(inch)								
50A	2"	220	300	620	740	250	580	990	1710
65A	2 1/2"	220	300	620	740	250	580	990	1710
80A	3"	220	300	620	740	250	580	990	1710
100A	4"	250	510	990	1240	270	740	1330	2040
125A	5"	590	750	1620	2350	660	1240	3080	6270
150A	6"	540	680	1470	2140	600	1120	2800	5700
200A	8"	910	1620	2030	2590	1000	2440	4100	8100
250A	10"	1620	2530	3380	4280	1800	4640	6800	14500
300A	12"	2530	3600	4510	5190	2790	7480	9100	23590
350A	14"	3720	5970						
400A	16"	5530	9180						
450A	18"	6840	11900						
500A	20"	10020	16970						
600A	24"	18330	32280						

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N.m		CLASS 150				CLASS 300			
		Actual Torque : N.m				Actual Torque : N.m			
		TEFLON SEAT		METAL SEAT		TEFLON SEAT		METAL SEAT	
SIZE		10 BAR	20 BAR	10 BAR	20 BAR	10 BAR	35 BAR	10 BAR	35 BAR
(mm)	(inch)								
50A	2"	25	34	70	84	28	65	112	193
65A	2 1/2"	25	34	70	84	28	65	112	193
80A	3"	25	34	70	84	28	65	112	193
100A	4"	28	58	112	140	31	84	150	230
125A	5"	67	85	183	266	75	140	348	708
150A	6"	61	77	166	242	68	127	316	644
200A	8"	103	183	229	293	113	276	463	915
250A	10"	183	286	382	484	203	524	768	1638
300A	12"	286	407	510	586	315	845	1028	2666
350A	14"	420	675						
400A	16"	625	1037						
450A	18"	773	1345						
500A	20"	1132	1917						
600A	24"	2071	3648						

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kgf.m		CLASS 150				CLASS 300			
		Actual Torque : kgf.m				Actual Torque : kgf.m			
		TEFLON SEAT		METAL SEAT		TEFLON SEAT		METAL SEAT	
SIZE		10 kg/cm <sup>2</sup>	20 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	20 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	35 kg/cm <sup>2</sup>	10 kg/cm <sup>2</sup>	35 kg/cm <sup>2</sup>
(mm)	(inch)								
50A	2"	3	3	7	9	3	7	11	20
65A	2 1/2"	3	3	7	9	3	7	11	20
80A	3"	3	3	7	9	3	7	11	20
100A	4"	3	6	11	14	3	9	15	23
125A	5"	7	9	19	27	8	14	35	72
150A	6"	6	8	17	25	7	13	32	66
200A	8"	11	19	23	30	12	28	47	93
250A	10"	19	29	39	49	21	53	78	167
300A	12"	29	42	52	60	32	86	105	272
350A	14"	43	69						
400A	16"	64	106						
450A	18"	79	137						
500A	20"	115	196						
600A	24"	211	372						

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NOTE : All torques shown on the chart were derived from test data using water at 5°C.

For torques using dry gases, multiply these numbers by 1.6.

Above table has additional 30% safety factor to average net torque.

For severe services, or unusual fluids or slurries, consult ST&H.

For 600 & 700 psig Torque, Please consult ST&H.