



Hydraulic Breaker Specifications



BREAKER TECHNOLOGY, LTD.
AN ASTEC COMPANY

	TB125	TB225	TB275	TB325	TB425	TB625	TB725	TB825	TB830	TB925	TB975	TB980	TB1025	TB1425	TB1430	TB1675	TB1680	TB1825	TB1830	TB2075	TB2080	TB2225	TB2575	TB2580
Control Valve Cover Bolt	kg/m 18 ft/lbs 130	18 130	18 130	28 202	45 325	45 325	45 325	75 542	75 542	75 542	75 542	75 542	90 651	90 651	90 651	90 651	130 940	130 940	130 940	130 940	130 940	130 940	130 940	130 940
Control Valve Body Bolt	kg/m 18 ft/lbs 130	18 130	18 130	28 202	45 325	45 325	45 325	75 542	75 542	75 542	75 542	75 542	90 651	90 651	90 651	90 651	130 940	130 940	130 940	130 940	130 940	130 940	130 940	130 940
Tie Rod Bolt	kg/m 12 ft/lbs 87	12 87	15 108	20 145	25 181	30 217	50 362	50 362	50 362	60 434	60 434	60 434	60 434	90 651	90 651	90 651	90 651	90 651	90 651	90 651	120 868	120 868	120 868	120 868
Tie Rod Nut	kg/m 45 ft/lbs 325	45 325	55 398	65 470	100 723	130 940	200 1447	200 1447	200 1447	230 1664	230 1664	230 1664	230 1664	360 2604	360 2604	360 2604	360 2604	360 2604	360 2604	360 2604	360 2604	580 4195	580 4195	580 4195
Side Plate Bracket Nut	kg/m 40 ft/lbs 290	40 290	50 362	70 506	120 868	120 868	150 1085	150 1085	150 1085	180 1302	180 1302	180 1302	180 1302	300 2170	300 2170	300 2170	300 2170	300 2170	300 2170	300 2170	300 2170	500 3617	500 3617	500 3617
Top Mount Bracket Bolt	kg/m 22 ft/lbs 159	22 159	22 159	22 159	45 325	45 325	45 325	45 325	45 325	70 506	70 506	70 506	120 868	120 868	120 868	120 868	180 1302	180 1302	180 1302	180 1302	180 1302	180 1302	180 1302	180 1302
Gas Valve Body	kg/m 8.5 ft/lbs 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61	8.5 61
Gas Valve Plug	kg/m 1.2 ft/lbs 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5	1.2 8.5
Hose Adaptor	kg/m 45 ft/lbs 325	45 325	45 325	45 325	55 398	55 398	55 398	55 398	55 398	60 434	60 434	60 434	60 434	60 434	60 434	60 434	65 470	65 470	65 470	65 470	65 470	65 470	65 470	65 470
Choke Plug	kg/m 5 ft/lbs 36	5 36	10 72	20 145	20 145	20 145	20 145	30 217	30 217	30 217	30 217	30 217	30 217	30 217	30 217	30 217	40 290	40 290	40 290	40 290	40 290	40 290	40 290	40 290
Bushing Wear Width Limit	mm 3 inches 3/8	3 3/8	3 3/8	4 3/16	4 3/16	4 3/16	6 1/4	6 1/4	6 1/4	8 5/16	8 5/16	8 5/16	8 5/16	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8	10 3/8
Max. Allowable Piston Deformation	mm 1.0 inches .04	1.0 .04	1.0 .04	1.0 .04	1.0 .04	1.0 .04	2.0 .08	2.0 .08	2.0 .08	2.0 .08	2.0 .08	2.0 .08	2.0 .08	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12	3.0 .12
Grease Every 2 Hours	shots 4-6	8-11	8-11	8-11	12-14	12-14	12-14	14-16	14-16	14-16	14-16	16-18	16-18	16-18	16-18	16-18	20-22	20-22	20-22	20-22	22-24	22-24	22-24	22-24
Model Serial No. Cross Reference	E=round O=oval 1E	2E	3E	4E	6E	6.5E	7E	10E	100	14E	15E	150	16E	22E	220	23E	230	30E	300	31E	310	38E	40E	400
Approx. Working Weight	kg 132 lbs 290	195 430	254 560	272 605	372 820	590 1300	840 1850	1136 2500	1136 2500	1636 3600	1950 4300	1950 4300	1902 4185	2540 5600	2540 5600	2860 6300	2860 6300	3600 7920	3600 7920	3990 8800	3990 8800	4260 9400	4763 10500	4763 10500
Tool Weight	kg 6 lbs 13	10 22	15 32	20 44	36 79	36 79	70 154	70 154	70 154	115 253	115 253	115 253	125 275	140 308	140 308	140 308	140 308	203 447	203 447	203 447	203 447	261 575	278 613	278 613
Tool Diameter	mm 50 inches 2	56 2.3	66 2.6	75 3	95 3.75	95 3.75	115 4.5	115 4.5	115 4.5	135 5.3	135 5.3	135 5.3	135 5.3	146 5.75	146 5.75	146 5.75	146 5.75	160 6.3	160 6.3	160 6.3	160 6.3	170 6.7	175 7	175 7
Relief Valve Setting	bar 200 p.s.i. 2844	200 2844	200 2844	200 2844	200 2844	200 2844	200 2844	200 2844	200 2844	250 3555	250 3555	200 2844	200 2844	200 2844	200 2844	250 3555	250 3555	200 2844	200 2844	250 3555	250 3555	200 2844	250 3555	250 3555
Cushion Chamber	bar 8 p.s.i. 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	11 156	11 156	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114	8 114
Working Pressure	bar 78-137 p.s.i. 1150-2000	98-147 1400-2150	98-151 1400-2200	98-157 1400-2300	98-167 1400-2400	108-170 1600-2400	118-167 1700-2400	118-167 1700-2400	118-167 1700-2400	125-167 1825-2400	127-167 2000-2550	127-167 2000-2550	130-170 1850-2400	127-167 1850-2400	127-167 1850-2400	127-167 1850-2400	127-167 1850-2400	140-180 2000-2600	140-180 2000-2600	137-177 2000-2600	137-177 2000-2600	137-177 2000-2600	137-177 2000-2600	137-177 2000-2600
Oil Flow Required	l/min 20-35 gpm (u.s.) 5-9	25-45 7-12	46-70 12-18	35-60 9-16	45-80 12-21	70-110 18-29	70-110 18-29	100-140 26-37	100-140 26-37	130-170 34-45	150-200 40-53	150-200 40-53	150-200 40-53	180-220 48-58	180-220 48-58	180-220 48-58	180-220 48-58	220-280 58-74	220-280 58-74	240-300 63-79	240-300 63-79	270-380 71-100	280-390 74-103	280-390 74-103
Minimum Tube I.D.	inches 1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	(1") 3/4"	(1") 3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Shut-Off Valve Size	inches 1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	(1") 3/4"	(1") 3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Breaker Ports	inches 1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
Blows/Minute	600 to 1070	550 to 1000	600 to 1200	550 to 1000	550 to 1000	600 to 900	450 to 700	430 to 600	430 to 600	460 to 600	450 to 600	450 to 600	440 to 580	410 to 500	410 to 500	380 to 450	380 to 450	390 to 500	390 to 500	370 to 470	370 to 470	390 to 500	370 to 470	
Energy Class	joules 475 ft/lbs 350	745 550	1017 750	1152 850	1491 1100	2035 1500	2712 2000	4068 3000	4068 3000	5152 3800	6102 4500	6102 4500	6102 4500	6105 5500	6105 5500	10170 7500	10170 7500	10846 8000	10846 8000	13560 10000	13560 10000	14914 11000	18306 13500	
Cushion Chamber Oil Volume	ml 35 ounces 1-1/4	35 1-1/4	35 1-1/4	70 2-1/4	100 3-1/2	100 3-1/2	180 6	240 8	240 8	300 10	300 10	300 10	350 12	380 12-3/4	380 12-3/4	380 12-3/4	440 15	440 15	440 15	440 15	600 20	600 20	600 20	600 20

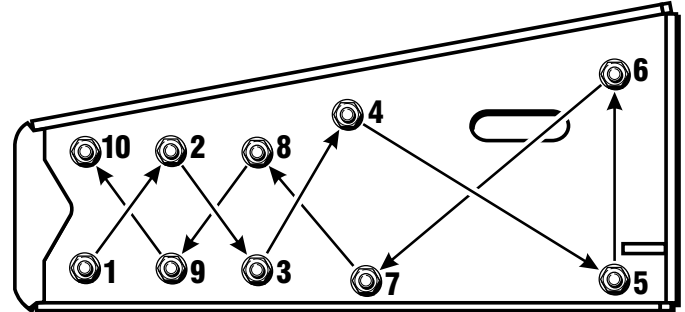
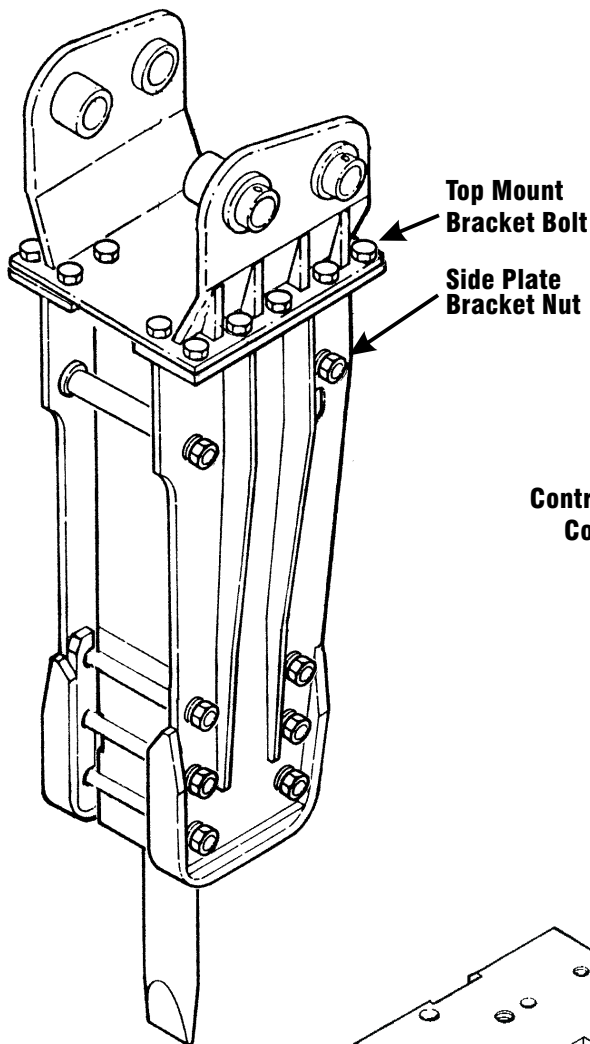


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Hydraulic Breaker Torque, Pressure & Flow Specifications



"V" Torque Pattern

- 1- Always tighten bolts in a "V" pattern.
- 2- Hand tighten to seat side plates against breaker body
- 3- Tighten to 60, 80, 90, 100 percent of specified torque.

