

Bearing Assembly Specifications

Motor Size (in.)	5 1/4	5 1/4	5 1/2	5 3/4	6 1/2	7	7	8	9 5/8	
Nominal BA OD (in.)	5.25	5.25	5.50	5.75	6.50	7.00	7.00	8.00	9.625	
Series	M40	M42 ¹	M40	M40	M40	M40	M41	M40	M40	
Bit Box to Stabilizer (in.)	22	N/A	29	29	29	25	30	29	46	
Bit Box to Bend (FBH) (in.)	40	N/A	43	47	51	45	59	52/ 66	78/ 94	
Hole Size (in.)	6 1/8 - 7 7/8	6 1/8 - 7 7/8	6 3/4 - 8 1/2	6 3/4	7 7/8 - 9 7/8	8 1/2 - 9 7/8	8 1/2 - 9 7/8	9 7/8 - 12 1/4	12 1/4 - 17 1/2	
Standard Bit Box Thread (API)	3 1/2 REG	3 1/2 REG	3 1/2 REG	3 1/2 REG	4 1/2 REG	4 1/2 REG	4 1/2 REG	6 5/8 REG	6 5/8 REG	
Operating Capacity	WOB (klbs)	41	74	48.5	57.5	72	76.5	95.1	97.25	132
	Bit Overpull (klbs)	41	74	48.5	57.5	72	76.5	95.1	97.25	132
	Torsional Limit (klbf-ft)	9	10	11	12	17	21	21	28	41.5
	Flow Rate (gpm)	450	450	550	550	600	850	850	1,200	1,500
Static Capacity	WOB to Re-run (klbs)	181	230	231	254	358	355	487.5	463	772
	Bit Overpull to Re-run (klbs)	127	155	169	212	222	319	131.5	326	223
	Absolute Body Overpull (klbs)	424	424	440	499	524	539/ 659	539/ 659	783	1,177
	Torsional Limit (klbf-ft)	14	14	16	17	27	34	34	45	66

¹ Matador - Motor Assisted RSS Operations



Power Section Specifications 5 1/4 - 6 3/4

Motor Size (in.)	Power Config.	Speed Range (RPM)	Rotation (rev/gal)	Torque Slope (rev/gal)	Elastomer	Max Diff. Pressure (psi)	Stall Torque (lbf-ft)	Max Power (hp)
5 1/4	7/8 8.3	100-190	0.48	4.800	NBR-HOP/ NBR-HPW	1,960	9,370	340
5 1/2	7/8 8.5	120-220	0.5	5.087	XR/ XP	1,910	14,590	348
					XE	2,130	16,220	386
5 3/4	6/7 10.6	180-300	0.6	4.290	XR/ XP	2,390	15,350	490
					XE	2,650	17,050	544
6 1/4	7/8 3.0	59-117	0.196	12.639	HR	680	12,800	172
					XP	750	14,220	164
					XE	830	15,640	178
6 1/2	7/8 6.0	86-187	0.288	9.300	HR	1,350	18,830	410
					XR	1,350	18,830	398
					XP	1,500	20,930	406
					XE	1,650	23,020	441
6 1/2	7/8 3.0	46-93	0.155	16.001	NBR-1A	450	10,800	110
					XR/ HR	680	16,200	165
					XP	750	18,000	183
6 3/4	7/8 6.4	86-187	0.288	9.300	HR	1,440	20,090	437
					XR	1,440	20,090	425
					XP	1,600	22,320	433
					XE	1,760	24,550	469
6 3/4	7/8 5.7	73-157	0.242	10.698	HR	1,280	20,580	378
					XR	1,280	20,580	363
					XP	1,430	22,870	366
					XE	1,570	25,150	395



Power Section Specifications 7 - 9 5/8

Motor Size (in.)	Power Config.	Speed Range (RPM)	Rotation (rev/gal)	Torque Slope (rev/gal)	Elastomer	Max Diff. Pressure (psi)	Stall Torque (lbf-ft)	Max Power (hp)
7	6/7 4.6	60-120	0.150	17.173	HR	1,040	26,660	353
					XR	1,040	26,660	332
					XP	1,150	29,620	316
					XE	1,270	32,590	338
7	7/8 8.5	96-180	0.240	9.783	HR	1,910	28,060	588
					XR	1,910	28,060	570
					XP	2,130	31,180	580
					XE	2,340	34,300	627
7 1/4	6/7 12.1	120-320	0.400	6.44	HR	2,720	26,300	1,011
					XR	2,720	26,300	987
					XP	3,030	29,220	1,023
					XE	3,330	32,140	1,112
8	7/8 3.4	36-80	0.089	28.040	HR	770	32,180	289
					XR	770	32,180	273
					XP	850	35,750	269
					XE	940	39,330	290
8	7/8 4.0	66-149	0.166	16.589	HR	900	22,400	387
					XR	900	22,400	374
					XP	1,000	24,880	379
					XE	1,100	27,370	409
8 1/4	7/8 7.0	66-166	0.166	15.323	HR	1,580	36,200	700
					XR	1,580	36,200	678
					XP	1,750	40,220	695
					XE	1,930	44,250	752
9 5/8	5/6 4.0	65-130	0.108	21.373	HR	900	28,850	412
					XR	900	28,850	387
					XP	1,000	32,060	356
					XE	1,100	35,270	380

