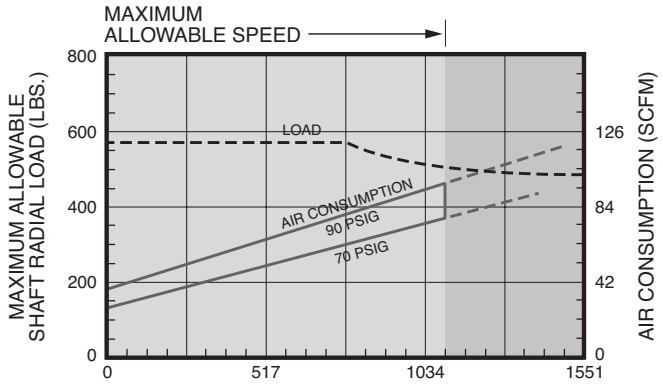
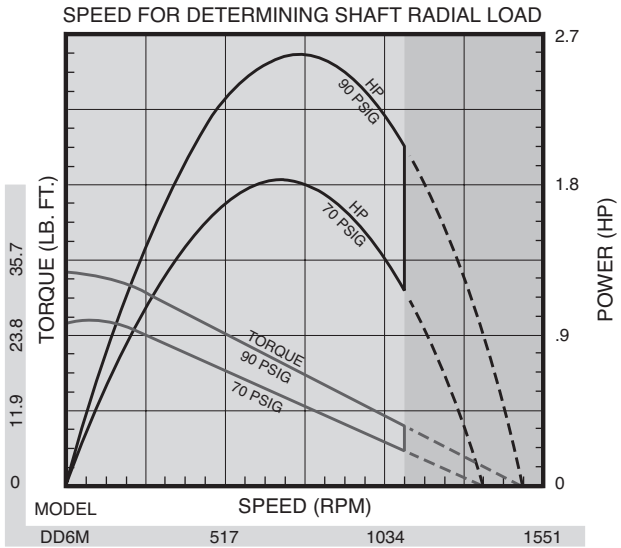
DIRECT AND GEARED DRIVE PISTON AIR MOTORS

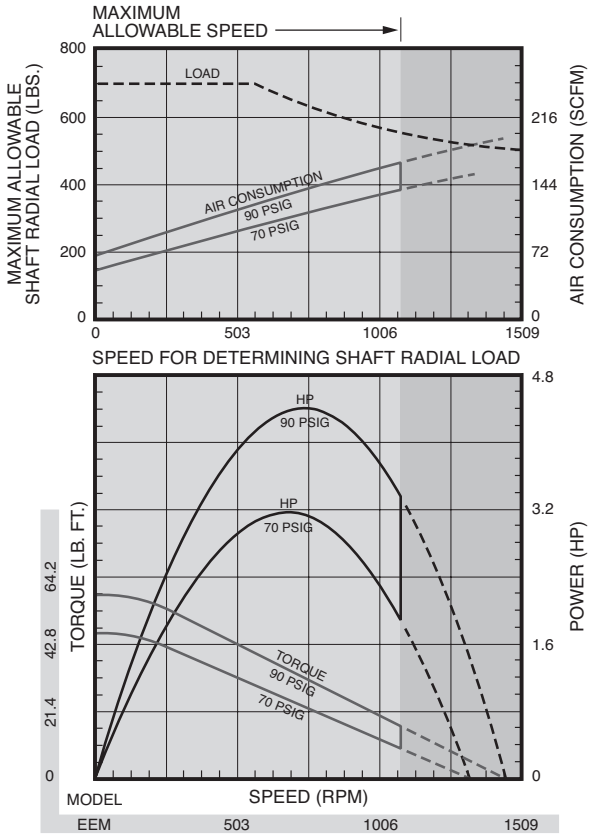
SPECIFICATIONS

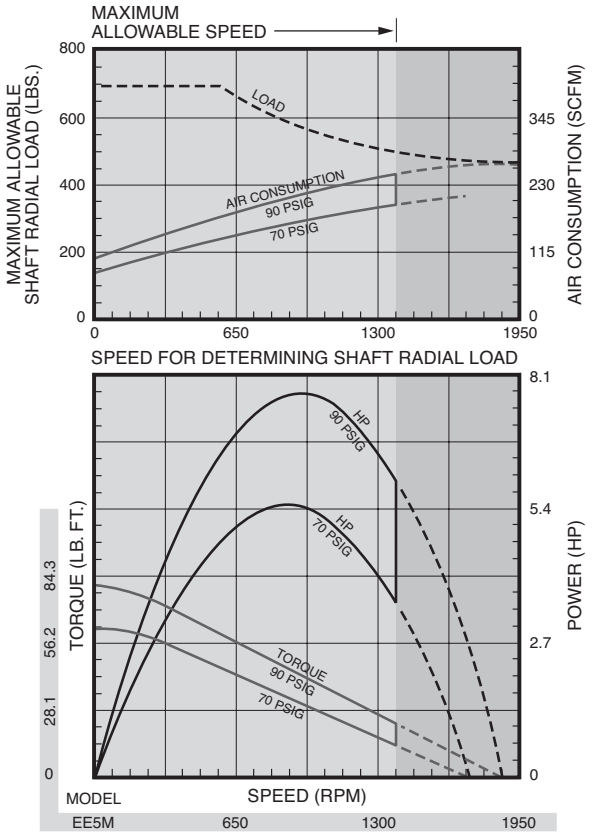
Model	Max. Power		Speed at Max. Power	Free Speed ▲	Starting Torque		Stall Torque		Air Consumption at Max. Power		Weight	
	hp	kw	rpm	rpm	lb-ft	Nm	lb-ft	Nm	scfm	m^3/m	lb	kg
DIRECT DRIVE REVERSIBLE												
DD6M	2.6	1.94	750	1,490	24	32.5	34.2	46.4	79	2.2	135	61.2
EEM	4.4	3.28	735	1,450	41	55.6	59	80	137	3.9	200	90.7
EE5M	7.8	5.82	950	1,875	60	81.4	80.5	109.2	220	6.2	210	95.3
HHM	11.3	8.43	730	1,450	106	144	152	206	270	7.6	235	107
HH5M	15.2	11.33	750	1,500	146	198	195	264	400	11.3	250	113
KK6M	25	18.64	755	1,500	260	353	325	441	680	19.3	475	216
GEARED DRIVE REVERSIBLE												
EE3G	5	3.73	275	560	122	165	175	237	155	4.4	200	90.7
EE53G	6.8	5.07	305	600	154	209	205	278	220	6.2	220	99.8
EE9G	4.7	3.51	92	190	357	484	510	692	155	4.4	210	95.3
EE59G	6.5	4.85	100	200	450	610	600	814	220	6.2	230	104

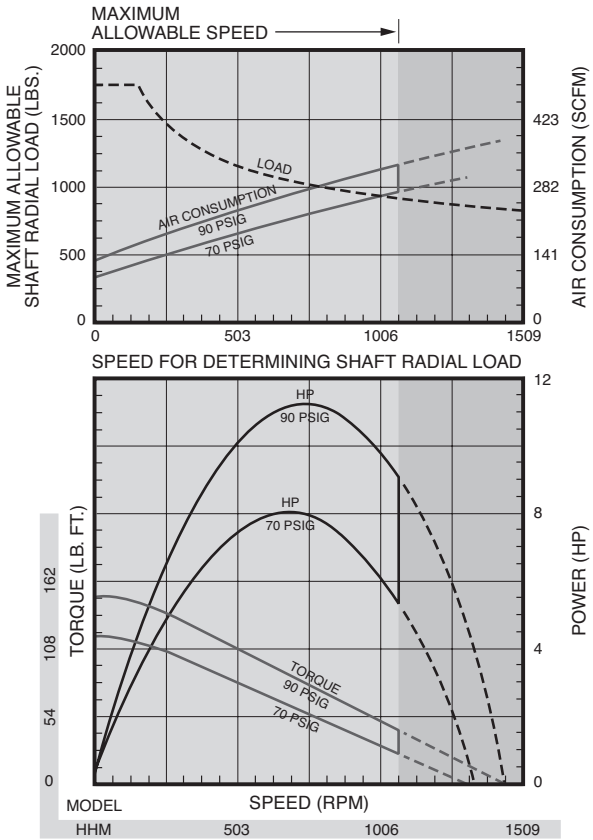
▲ ALL models must be operated with sufficient load to prevent speed from exceeding maximum allowable speed shown on performance curve.
All of the above motors are furnished less valve and piping as standard.
Performance figures are at 90 psig (620 kPa) air pressure.

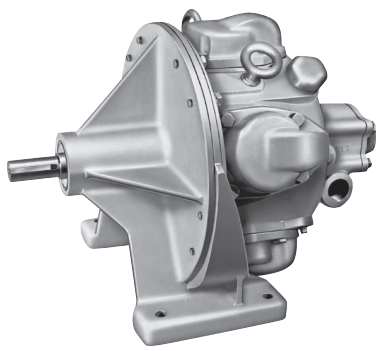


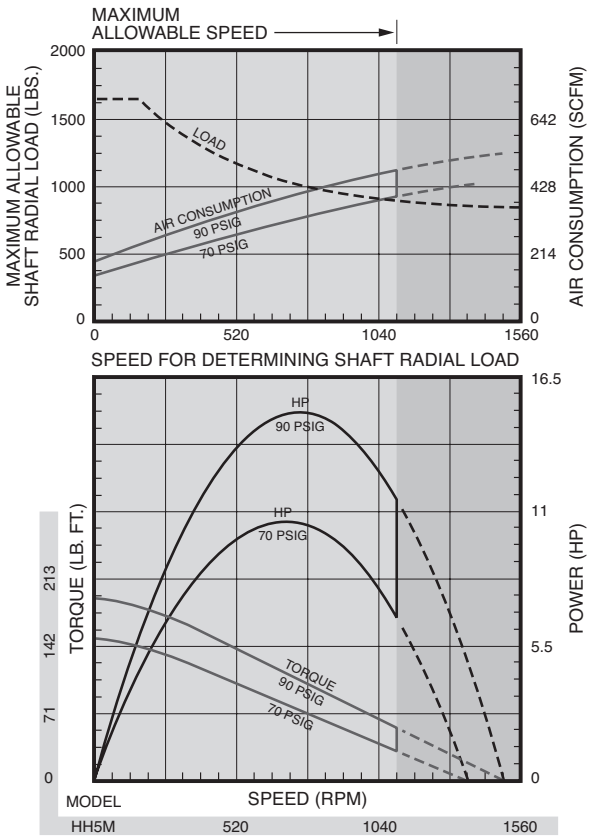


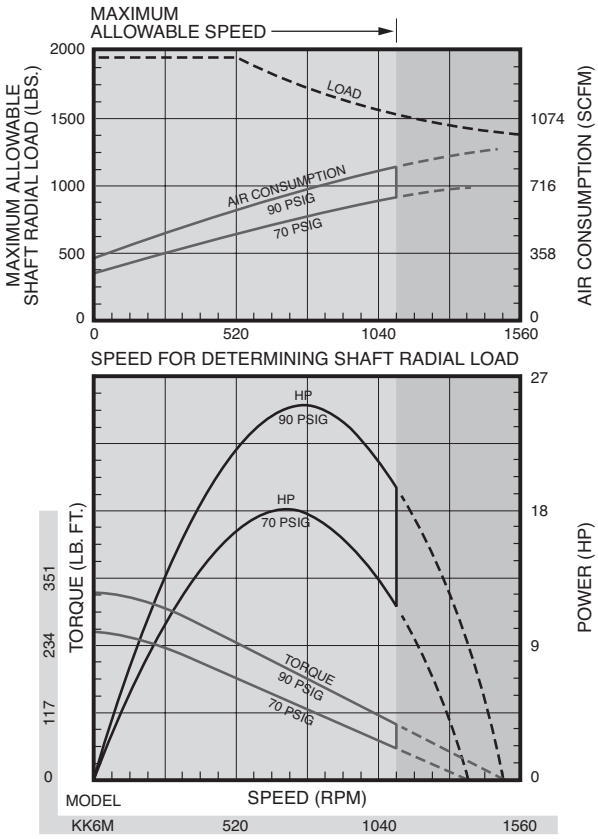

MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
800
600
400
200
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
216
144
72
0
AIR CONSUMPTION (SCFM)
0
503
1006
1509
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
4.8
3.2
1.6
0
POWER (HP)
TORQUE (LB. FT.)
64.2
42.8
21.4
0
TORQUE
90 PSIG
70 PSIG
MODEL
SPEED (RPM)
EEM
503
1006
1509

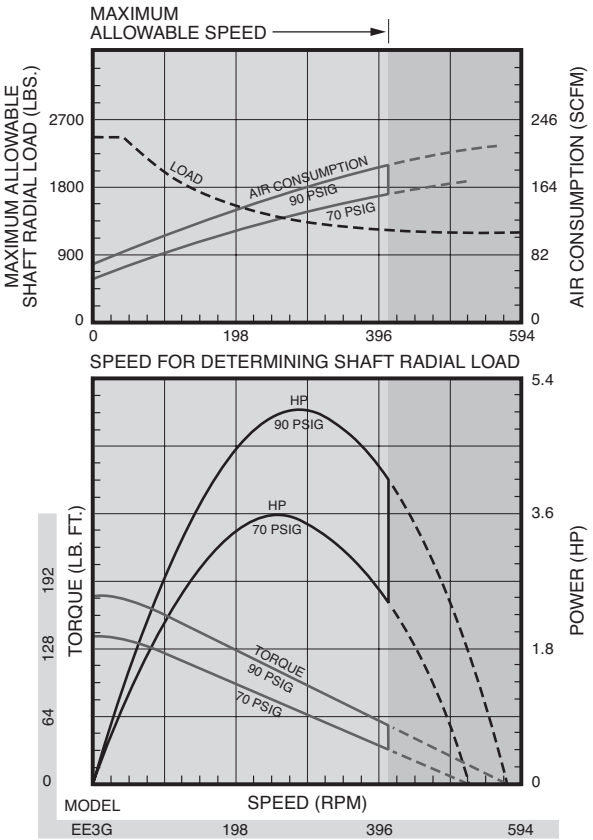

MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
800
600
400
200
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
345
230
115
0
AIR CONSUMPTION (SCFM)
0
650
1300
1950
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
8.1
5.4
2.7
0
POWER (HP)
TORQUE (LB. FT.)
84.3
56.2
28.1
0
TORQUE
90 PSIG
70 PSIG
MODEL
SPEED (RPM)
EE5M
650
1300
1950

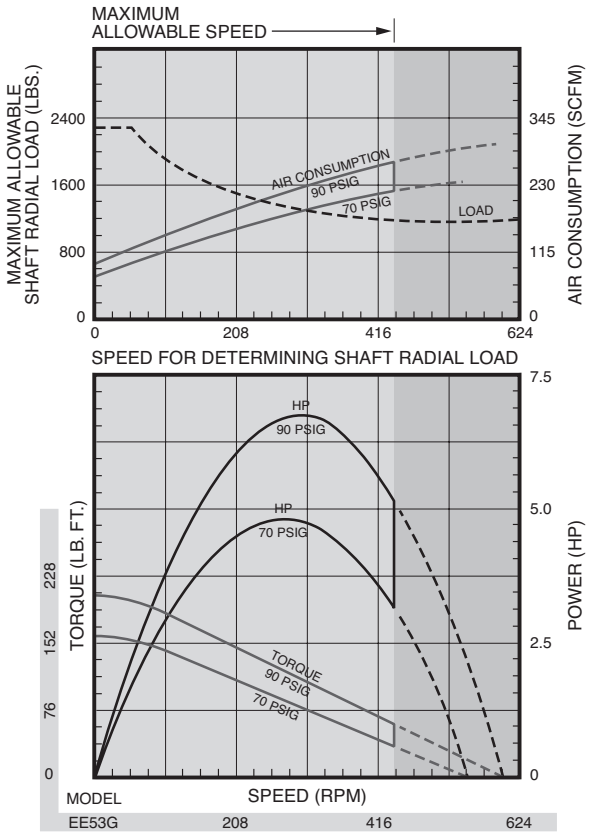

MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
2000
1500
1000
500
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
423
282
141
0
AIR CONSUMPTION (SCFM)
0
503
1006
1509
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
12
8
4
0
POWER (HP)
TORQUE (LB. FT.)
162
108
54
0
TORQUE
90 PSIG
70 PSIG
MODEL
SPEED (RPM)
HHM
503
1006
1509

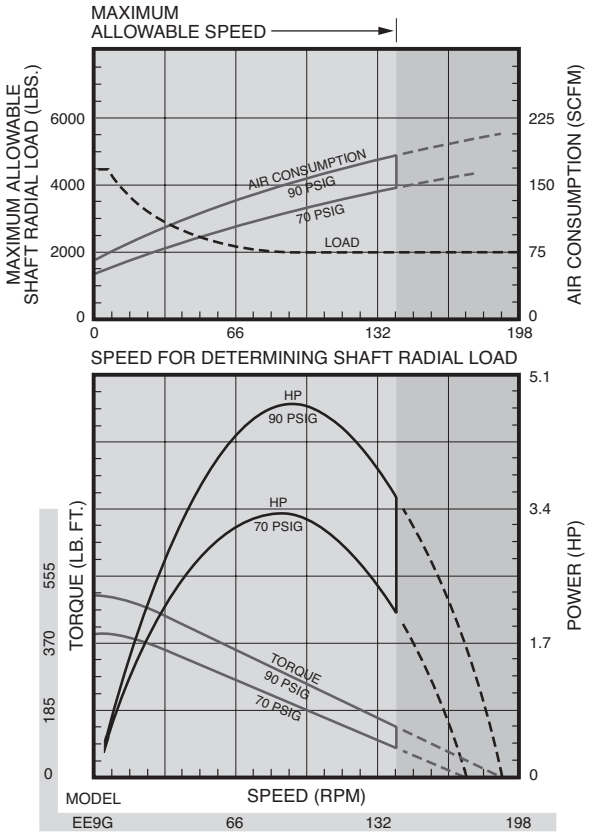


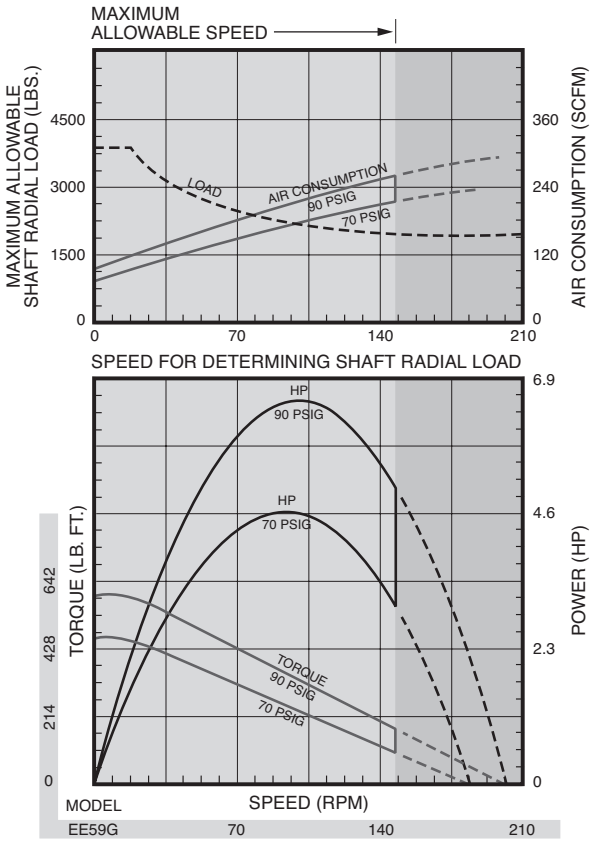

MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
2000
1500
1000
500
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
642
428
214
0
AIR CONSUMPTION (SCFM)
0
520
1040
1560
SPEED FOR DETERMINING SHAFT RADIAL LOAD
16.5
11
5.5
0
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
213
142
71
0
TORQUE (LB. FT.)
POWER (HP)
MODEL
SPEED (RPM)
HH5M
520
1040
1560


MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
2000
1500
1000
500
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
1074
716
358
0
AIR CONSUMPTION (SCFM)
0
520
1040
1560
SPEED FOR DETERMINING SHAFT RADIAL LOAD
27
18
9
0
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
351
234
117
0
TORQUE (LB. FT.)
POWER (HP)
MODEL
SPEED (RPM)
KK6M
520
1040
1560


MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
2700
1800
900
0
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
246
164
82
0
AIR CONSUMPTION (SCFM)
0
198
396
594
SPEED FOR DETERMINING SHAFT RADIAL LOAD
5.4
3.6
1.8
0
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
192
128
64
0
TORQUE (LB. FT.)
POWER (HP)
MODEL
SPEED (RPM)
EE3G
198
396
594

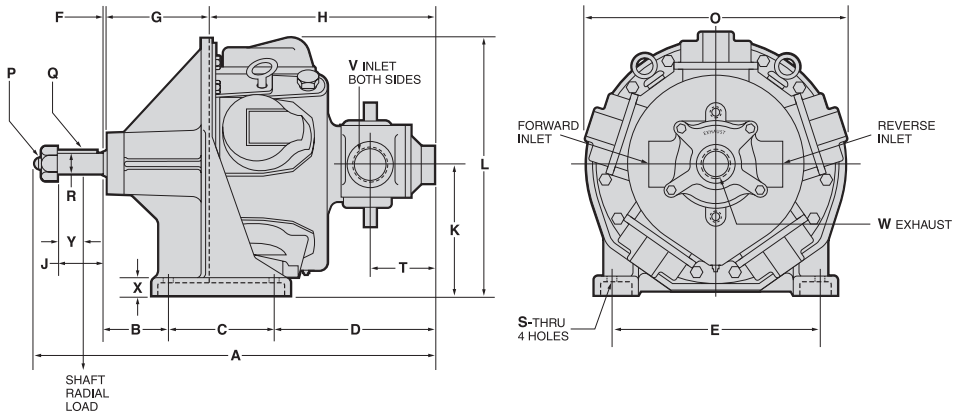

MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
2400
1600
800
0
0
208
416
624
AIR CONSUMPTION
90 PSIG
70 PSIG
LOAD
345
230
115
0
AIR CONSUMPTION (SCFM)
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
TORQUE (LB. FT.)
228
152
76
0
7.5
5.0
2.5
0
POWER (HP)
MODEL
SPEED (RPM)
EE53G
208
416
624


MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
6000
4000
2000
0
0
66
132
198
AIR CONSUMPTION
90 PSIG
70 PSIG
LOAD
225
150
75
0
AIR CONSUMPTION (SCFM)
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
TORQUE (LB. FT.)
555
370
185
0
5.1
3.4
1.7
0
POWER (HP)
MODEL
SPEED (RPM)
EE9G
66
132
198


MAXIMUM
ALLOWABLE SPEED
MAXIMUM ALLOWABLE
SHAFT RADIAL LOAD (LBS.)
4500
3000
1500
0
0
70
140
210
LOAD
AIR CONSUMPTION
90 PSIG
70 PSIG
360
240
120
0
AIR CONSUMPTION (SCFM)
SPEED FOR DETERMINING SHAFT RADIAL LOAD
HP
90 PSIG
HP
70 PSIG
TORQUE
90 PSIG
70 PSIG
TORQUE (LB. FT.)
642
428
214
0
6.9
4.6
2.3
0
POWER (HP)
MODEL
SPEED (RPM)
EE59G
70
140
210

DIRECT DRIVE PISTON AIR MOTORS

DIMENSIONS



DIMENSIONS IN INCHES

Model	A	B	C	D	E	F	G	H	J	K	L	O	P** Thd.	Q Key	R*	S Dia.	T	V NPT	W NP	X	Y
CCM, DD6M	23 9/16	3 3/4	7 3/4	7 7/8	10 1/2	25/32	7 13/32	11 3/16	3	8 3/4	15 5/8	13 3/4	1"-8	1/4 x 1/4	1.125	25/32	2 11/16	3/4	1	7/8	2 11/16
EEM, EE5M	27	3 13/16	9 3/4	9 9/32	12 1/2	25/32	9 17/32	12 17/32	3	9 5/16	16 13/16	15	1"-8	1/4 x 1/4	1.125	25/32	2 15/16	1	1	7/8	2 11/16
HHM	24 3/16	4 5/16	7	9 7/8	13 1/2	3/16	7	14	3	8 7/8	17 1/4	17 1/4	+	3/8 x 3/8	1.375	21/32	3 13/16	1	1 1/4	1 1/4	1 5/16
HH5M	24 4/16	4 5/16	7	9 7/8	13 1/2	3/16	7	14	3	8 7/8	17 1/4	17 1/4	+	3/8 x 3/8	1.375	21/32	3 13/16	1 1/4	1 1/4	1 1/4	1 5/16
KK6M	30 1/4	4 3/4	8 5/8	12 5/8	13 1/2	1/8	7 11/16	18 3/16	4 1/4	12 1/8	22 1/4	22	+	3/8 x 3/8	1.625	21/32	4 5/16	1 1/4	1 1/2	1 3/8	1 7/8

+ The end of the shaft is not threaded on these Motors and no nut is used. *Tolerance: +0 -.0005" **Thd.–UNC2A.

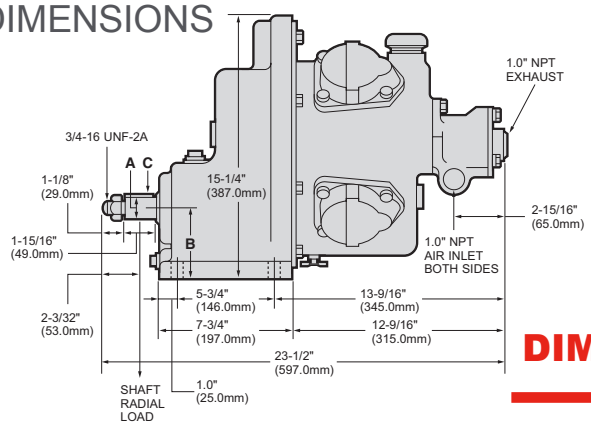
DIMENSIONS IN MILLIMETERS

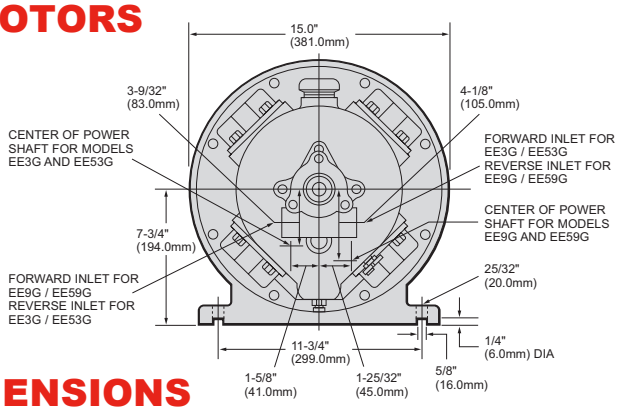
Model	A	B	C	D	E	F	G	H	J	K	L	O	P** Thd.	Q Key	R*	S Dia.	T	X	Y
CCM, DD6M	599	95	197	200	267	20	188	284	76	222	397	349	1"-8	6 x 6	28	20	68	22	68
EEM, EE5M	686	97	248	236	318	20	242	318	76	237	427	381	1"-8	6 x 6	28	20	75	22	68
HHM	614	110	178	251	343	5	178	356	76	225	438	438	+	10 x 10	35	17	97	32	33
HH5M	614	110	178	251	343	5	178	356	76	225	438	438	+	10 x 10	35	17	97	32	33
KK6M	768	121	219	321	343	3	195	462	108	308	565	559	+	10 x 10	41	17	110	35	48

+ The end of the shaft is not threaded on these Motors and no nut is used. *Tolerance: +0 -0.13mm

GEARED DRIVE PISTON AIR MOTORS

DIMENSIONS





Models	A*		B		Key C	
	in	mm	in	mm	in	mm
EE3G, EE53G	1.251	31.78	4 15/32	114	1/4 x 1/4 x 1 25/32	6 x 6 x 45
EE9G, EE59G	1.501	38.13	3 5/8	92	3/8 x 3/8 x 1 11/16	10 x 10 x 43

*Tolerance: +0 -.0005" (0.13mm)