

# EATON ORBITAL MOTORS & STEERING



Make	Model
Eaton Char-Lynn	J2 Series
Eaton Char-Lynn	H Series
Eaton Char-Lynn	S Series
Eaton Char-Lynn	T Series
Eaton Char-Lynn	2000 Series
Eaton Char-Lynn	4000 Series
Eaton Char-Lynn	6000 Series
Eaton Char-Lynn	10,000 Series
Eaton Char-Lynn	Spares
Eaton Xcel	XLH Series
Eaton Xcel	XLS Series
Eaton Xcel	XL2 Series
Eaton Xcel	Spares
Eaton Char-Lynn	Steering

# EATON ORBITAL MOTORS & STEERING



## J2 Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	Cl				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
8.2	0.5	5/8" Keyed	5 Bolt	9/16" UNO End Ported	1992	17	16	140	129-0001-002
8.2	0.5	5/8" Keyed	5 Bolt	9/16" UNO Side Ported	1992	17	16	140	129-0017-002
8.2	0.5	16mm Keyed	5 Bolt	G3/8 End Ported	1992	17	16	140	129-0113-002
8.2	0.5	16mm Keyed	5 Bolt	G3/8 Side Ported	1992	17	16	140	129-0021-002
12.9	0.79	5/8" Keyed	5 Bolt	9/16" UNO End Ported	1575	21	25	140	129-0002-002
12.9	0.79	5/8" Keyed	5 Bolt	9/16" UNO Side Ported	1575	21	25	140	129-0018-002
12.9	0.79	16mm Keyed	5 Bolt	G3/8 End Ported	1575	21	25	140	129-0114-002
12.9	0.79	16mm Keyed	5 Bolt	G3/8 Side Ported	1575	21	25	140	129-0022-002
19.8	1.21	5/8" Keyed	5 Bolt	9/16" UNO End Ported	1043	21	38	140	129-0003-002
19.8	1.21	5/8" Keyed	5 Bolt	9/16" UNO Side Ported	1043	21	38	140	129-0019-002
19.8	1.21	16mm Keyed	5 Bolt	G3/8 End Ported	1043	21	38	140	129-0115-002
19.8	1.21	16mm Keyed	5 Bolt	G3/8 Side Ported	1043	21	38	140	129-0023-002
31.6	1.93	5/8" Keyed	5 Bolt	9/16" UNO End Ported	650	21	50	121	129-0004-002
31.6	1.93	5/8" Keyed	5 Bolt	9/16" UNO Side Ported	650	21	50	121	129-0020-002
31.6	1.93	16mm Keyed	5 Bolt	G3/8 End Ported	650	21	50	121	129-0116-002
31.6	1.93	16mm Keyed	5 Bolt	G3/8 Side Ported	650	21	50	121	129-0024-002



## Seals - J2 Series

Part Number	Description
60580-000	Buna N Seal Kit for -002 Design

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## H Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
36	2.2	1" Keyed	2 Bolt SAE-A	7/8" UNO	1021	38	56	124	101-1700-009
36	2.2	1" Keyed	4 Bolt SAE-A	7/8" UNO	1021	38	56	124	101-1749-009
46	2.8	1" Keyed	2 Bolt SAE-A	7/8" UNO	969	45	73	124	101-1033-009
46	2.8	1" Keyed	4 Bolt SAE-A	7/8" UNO	969	45	73	124	101-1009-009
59	3.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	953	57	91	124	101-1701-009
59	3.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	953	57	91	124	101-1750-009
74	4.5	1" Keyed	2 Bolt SAE-A	7/8" UNO	760	57	118	124	101-1034-009
74	4.5	1" Keyed	4 Bolt SAE-A	7/8" UNO	760	57	118	124	101-1010-009
97	5.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	585	57	155	124	101-1035-009
97	5.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	585	57	155	124	101-1011-009
120	7.3	1" Keyed	2 Bolt SAE-A	7/8" UNO	469	57	192	124	101-1702-009
120	7.3	1" Keyed	4 Bolt SAE-A	7/8" UNO	469	57	192	124	101-1751-009
146	8.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	385	57	221	117	101-1703-009
146	8.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	385	57	221	117	101-1752-009
159	9.7	1" Keyed	2 Bolt SAE-A	7/8" UNO	353	57	233	114	101-1036-009
159	9.7	1" Keyed	4 Bolt SAE-A	7/8" UNO	353	57	233	114	101-1012-009
185	11.3	1" Keyed	2 Bolt SAE-A	7/8" UNO	304	57	265	110	101-1037-009
185	11.3	1" Keyed	4 Bolt SAE-A	7/8" UNO	304	57	265	110	101-1013-009
231	14.1	1" Keyed	2 Bolt SAE-A	7/8" UNO	243	57	302	100	101-1038-009
231	14.1	1" Keyed	4 Bolt SAE-A	7/8" UNO	243	57	302	100	101-1014-009
293	17.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	192	57	351	93	101-1039-009
293	17.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	192	57	351	93	101-1015-009
370	22.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	152	57	407	86	101-1040-009
370	22.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	152	57	407	86	101-1016-009



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## Seals - H Series

Part Number	Description
60540-000	Buna N Seal Kit for -009 Design
6029894-002	Shaft Seal for -009 Design
5995483-001	High Pressure Shaft Seal for -009 Design
9121-002	Dust Seal for -009 Design

# EATON ORBITAL MOTORS & STEERING



## S Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
59	3.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	962	57	107	138	103-1635-012
59	3.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	962	57	107	138	103-1638-012
76	4.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	762	57	139	138	103-2034-012
76	4.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	762	57	139	138	103-2010-012
93	5.7	1" Keyed	2 Bolt SAE-A	7/8" UNO	585	57	181	138	103-2035-012
93	5.7	1" Keyed	4 Bolt SAE-A	7/8" UNO	585	57	181	138	103-2011-012
120	7.3	1" Keyed	2 Bolt SAE-A	7/8" UNO	470	57	227	138	103-1639-012
120	7.3	1" Keyed	4 Bolt SAE-A	7/8" UNO	470	57	227	138	103-1640-012
144	8.8	1" Keyed	2 Bolt SAE-A	7/8" UNO	385	57	263	131	103-3374-012
144	8.8	1" Keyed	4 Bolt SAE-A	7/8" UNO	385	57	263	131	103-1641-012
165	10.1	1" Keyed	2 Bolt SAE-A	7/8" UNO	353	57	291	131	103-2036-012
165	10.1	1" Keyed	4 Bolt SAE-A	7/8" UNO	353	57	291	131	103-2012-012
185	11.3	1" Keyed	2 Bolt SAE-A	7/8" UNO	303	57	324	128	103-2037-012
185	11.3	1" Keyed	4 Bolt SAE-A	7/8" UNO	303	57	324	128	103-2013-012
224	13.7	1" Keyed	2 Bolt SAE-A	7/8" UNO	243	57	369	117	103-2038-012
224	13.7	1" Keyed	4 Bolt SAE-A	7/8" UNO	243	57	369	117	103-2014-012
299	18.2	1" Keyed	2 Bolt SAE-A	7/8" UNO	192	57	411	103	103-2039-012
299	18.2	1" Keyed	4 Bolt SAE-A	7/8" UNO	192	57	411	103	103-2015-012
370	22.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	153	57	452	90	103-2040-012
370	22.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	153	57	452	90	103-2016-012

Note: All of the above 'S' Series motors come with a case drain plugged.



## Seals - S Series

Part Number	Description
9900101-000	Buna N Seal Kit for -012 Design
6029894-002	Shaft Seal for -012 Design
5995483-001	High Pressure Shaft Seal for -012 Design
9121-002	Dust Seal for -012 Design

# EATON ORBITAL MOTORS & STEERING



## T Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
66	4	1" Keyed	2 Bolt SAE-A	7/8" UNO	849	57	138	155	158-1635-001
66	4	1" Keyed	4 Bolt SAE-A	7/8" UNO	849	57	138	155	158-1638-001
80	4.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	694	57	174	155	158-2034-001
80	4.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	694	57	174	155	158-2010-001
102	6.2	1" Keyed	2 Bolt SAE-A	7/8" UNO	550	57	219	155	158-2035-001
102	6.2	1" Keyed	4 Bolt SAE-A	7/8" UNO	550	57	219	155	158-2011-001
131	8	1" Keyed	2 Bolt SAE-A	7/8" UNO	426	57	251	138	158-1639-001
131	8	1" Keyed	4 Bolt SAE-A	7/8" UNO	426	57	251	138	158-1640-001
157	9.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	355	57	297	138	158-2036-001
157	9.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	355	57	297	138	158-2012-001
195	11.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	287	57	359	138	158-2037-001
195	11.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	287	57	359	138	158-2013-001
244	14.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	229	57	410	127	158-2038-001
244	14.9	1" Keyed	4 Bolt SAE-A	7/8" UNO	229	57	410	127	158-2014-001
306	18.7	1" Keyed	2 Bolt SAE-A	7/8" UNO	183	57	441	110	158-2039-001
306	18.7	1" Keyed	4 Bolt SAE-A	7/8" UNO	183	57	441	110	158-2015-001
370	22.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	152	57	430	90	158-2040-001
370	22.6	1" Keyed	4 Bolt SAE-A	7/8" UNO	152	57	430	90	158-2016-001

Note: All of the above 'T' Series motors come with a case drain plugged.



## Seals - T Series

Part Number	Description
60564-000	Buna N Seal Kit for -001 Design
6029894-002	Shaft Seal for -001 Design
5995483-001	High Pressure Shaft Seal for -001 Design
9121-002	Dust Seal for -001 Design

# EATON ORBITAL MOTORS & STEERING



## 2000 Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
80	4.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	908	75	235	205	104-1001-006
80	4.9	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	908	75	235	205	104-1015-006
80	4.9	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	908	75	235	205	104-1022-006
80	4.9	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	908	75	235	205	104-1029-006
80	4.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	908	75	235	205	104-1384-006
100	6.2	1" Keyed	2 Bolt SAE-A	7/8" UNO	742	75	295	205	104-1002-006
100	6.2	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	742	75	295	205	104-1016-006
100	6.2	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	742	75	295	205	104-1023-006
100	6.2	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	742	75	295	205	104-1030-006
100	6.2	32mm Keyed	4 Bolt Diagonal	1/2" BSP	742	75	295	205	104-1385-006
130	8	1" Keyed	2 Bolt SAE-A	7/8" UNO	576	75	385	205	104-1003-006
130	8	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	576	75	385	205	104-1017-006
130	8	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	576	75	385	205	104-1024-006
130	8	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	576	75	385	205	104-1031-006
130	8	32mm Keyed	4 Bolt Diagonal	1/2" BSP	576	75	385	205	104-1386-006
160	9.6	1" Keyed	2 Bolt SAE-A	7/8" UNO	477	75	455	205	104-1004-006
160	9.6	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	477	75	455	205	104-1018-006
160	9.6	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	477	75	455	205	104-1025-006
160	9.6	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	477	75	455	205	104-1032-006
160	9.6	32mm Keyed	4 Bolt Diagonal	1/2" BSP	477	75	455	205	104-1387-006
195	11.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	385	75	540	205	104-1005-006
195	11.9	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	385	75	540	205	104-1019-006
195	11.9	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	385	75	540	205	104-1026-006
195	11.9	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	385	75	540	205	104-1033-006
195	11.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	385	75	540	205	104-1388-006
245	14.9	1" Keyed	2 Bolt SAE-A	7/8" UNO	308	75	660	205	104-1006-006
245	14.9	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	308	75	660	205	104-1020-006
245	14.9	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	308	75	660	205	104-1027-006
245	14.9	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	308	75	660	205	104-1034-006
245	14.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	308	75	660	205	104-1389-006
305	18.7	1" Keyed	2 Bolt SAE-A	7/8" UNO	246	75	765	205	104-1007-006
305	18.7	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	246	75	765	205	104-1021-006
305	18.7	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	246	75	765	205	104-1028-006
305	18.7	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	246	75	765	205	104-1035-006
305	18.7	32mm Keyed	4 Bolt Diagonal	1/2" BSP	246	75	765	205	104-1390-006
395	24	1" Keyed	2 Bolt SAE-A	7/8" UNO	191	75	775	155	104-1143-006
395	24	1" 6B Spline	2 Bolt SAE-A	7/8" UNO	191	75	775	155	104-1227-006
395	24	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	191	75	775	155	104-1228-006
395	24	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	191	75	775	155	104-1229-006
395	24	32mm Keyed	4 Bolt Diagonal	1/2" BSP	191	75	775	155	104-1391-006
490	29.8	1-1/4" Keyed	2 Bolt SAE-A	7/8" UNO	153	75	845	120	104-1420-006
490	29.8	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	153	75	845	120	104-1422-006

Note: All of the above '2000' Series motors come with a case drain plugged.

# EATON ORBITAL MOTORS & STEERING



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## 2000 Wheel

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
80	4.9	1-1/4" Tapered	Wheel Mount	7/8" UNO	908	75	235	205	105-1001-006
100	6.2	1-1/4" Tapered	Wheel Mount	7/8" UNO	742	75	295	205	105-1002-006
130	8	1-1/4" Tapered	Wheel Mount	7/8" UNO	576	75	385	205	105-1003-006
160	9.6	1-1/4" Tapered	Wheel Mount	7/8" UNO	477	75	455	205	105-1004-006
195	11.9	1-1/4" Tapered	Wheel Mount	7/8" UNO	385	75	540	205	105-1005-006
245	14.9	1-1/4" Tapered	Wheel Mount	7/8" UNO	308	75	660	205	105-1006-006
305	18.7	1-1/4" Tapered	Wheel Mount	7/8" UNO	246	75	765	205	105-1007-006
395	24	1-1/4" Tapered	Wheel Mount	7/8" UNO	191	75	775	155	105-1060-006

Note: All of the above '2000' Series motors come with a case drain plugged.

# EATON ORBITAL MOTORS & STEERING



## 2000 Bearingless

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
80	4.9	N/A	Bearingless Motor	7/8" UNO	908	75	235	205	106-1008-006
100	6.2	N/A	Bearingless Motor	7/8" UNO	742	75	295	205	106-1009-006
130	8	N/A	Bearingless Motor	7/8" UNO	576	75	385	205	106-1010-006
160	9.6	N/A	Bearingless Motor	7/8" UNO	477	75	455	205	106-1011-006
195	11.9	N/A	Bearingless Motor	7/8" UNO	385	75	540	205	106-1012-006
245	14.9	N/A	Bearingless Motor	7/8" UNO	308	75	660	205	106-1013-006
305	18.7	N/A	Bearingless Motor	7/8" UNO	246	75	765	205	106-1014-006
395	24	N/A	Bearingless Motor	7/8" UNO	191	75	775	155	106-1015-006
490	29.8	N/A	Bearingless Motor	7/8" UNO	153	75	845	120	106-1047-006

Note: All of the above '2000' Series motors come with a case drain plugged.





Char-Lynn



## 2000 Two Speed

Displacement				Shaft	Mount	Ports	Maximum Continuous				Part Number		
HSM	LSM	HSM	LSM				Speed (rpm)		Flow (lpm)			Torque (Nm)	Pressure (bar)
CC	CC	CIU	CI				HSM	LSM	HSM	LSM			
65	130	4	8	1" Keyed	2 Bolt SAE-A	7/8" UNO	990	495	70	70	385	205	193-0116-001
155	305	9.35	18.7	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	450	225	75	75	765	205	193-0024-001

Note: All of the above '2000' Series motors come with a case drain plugged.



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## Cane Harvester Motors

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
305	18.7	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	246	75	765	205	104-4480-006
395	24	1-1/4" Tapered	Wheel Mount	7/8" UNO	246	75	765	205	105-1619-006
395	24	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	191	75	775	155	104-4481-006
490	29.8	1-1/4" 14T Spline	2 Bolt SAE-A	7/8" UNO	153	75	845	120	104-4497-006

\*Note: Comes standard with high pressure shaft seal and seal guard.



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## Seals - 2000 Series

Part Number	Description
61258-000	Buna N Seal Kit for -006 Design (Std. and Whl. Motors)
61259-000	Buna N Seal Kit for -006 Design (Bearingless Motors Only)
9057-009	Shaft Seal for -006 Design
5991881-001	High Pressure Shaft Seal for -006 Design
9121-001	Dust Seal for -006 Design
14628-002	Seal Guard (or Slinger Seal) for -006 Design

# EATON ORBITAL MOTORS & STEERING



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## 4000 Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
110	6.79	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	697	75	320	205	109-1100-006
110	6.79	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	697	75	320	205	109-1114-006
130	7.9	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	722	95	375	205	109-1101-006
130	7.9	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	722	95	375	205	109-1115-006
160	9.9	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	582	95	485	205	109-1102-006
160	9.9	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	582	95	485	205	109-1116-006
160	9.9	40mm Keyed	4 Bolt ISO	3/4" BSP	582	95	485	205	109-1247-006
160	9.9	Bearingless Motor	4 Bolt	7/8" UNO	582	95	485	205	111-1061-004
205	12.4	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	459	95	600	205	109-1103-006
205	12.4	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	459	95	600	205	109-1117-006
205	12.4	40mm Keyed	4 Bolt ISO	3/4" BSP	459	95	600	205	109-1231-006
245	15	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	383	95	705	205	109-1104-006
245	15	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	383	95	705	205	109-1118-006
245	15	40mm Keyed	4 Bolt ISO	3/4" BSP	383	95	705	205	109-1245-006
310	19	1-1/4" Straight	4 Bolt SAE-B	1-1/16" UNO	303	95	850	205	109-1105-006
310	19	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	303	95	850	205	109-1119-006
310	19	40mm Keyed	4 Bolt ISO	3/4" BSP	303	95	850	205	109-1246-006
310	19	1-5/8" Tapered	Wheel Mount	1-1/16" UNO	303	95	850	205	110-1086-006
395	24	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	239	95	930	190	109-1106-006
395	24	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	239	95	930	190	109-1120-006
395	24	40mm Keyed	4 Bolt ISO	3/4" BSP	239	95	930	190	109-1236-006
395	24	1-5/8" Tapered	Wheel Mount	1-1/16" UNO	239	95	930	190	110-1087-006
495	30	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	191	95	945	140	109-1212-006
495	30	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	191	95	945	140	109-1363-006
495	30	40mm Keyed	4 Bolt ISO	3/4" BSP	191	95	945	140	109-1234-006
625	38	1-1/4" Keyed	4 Bolt SAE-B	1-1/16" UNO	191	95	970	115	109-1215-006
625	38	1-1/4" 14T Spline	4 Bolt SAE-B	1-1/16" UNO	191	95	970	115	109-1219-006

Note: All of the above '4000' Series motors come with a case drain plugged with check valve.



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## Seals - 4000 Series

Part Number	Description
61281-000	Buna N Front/Shaft Seal Kit for -006 Design (Std. and Whl. Motors)
61234-000	Buna N Rear Seal Kit for -006 Design (Std. and Whl. Motors)
61235-000	Buna N Seal Kit for -006 Design (Bearingless Motors Only)
6029894-002	Shaft Seal for -006 Design

# EATON ORBITAL MOTORS & STEERING



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## 6000 Series

Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
195	11.9	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	775	150	575	205	112-1064-006
195	11.9	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	775	150	575	205	112-1058-006
195	11.9	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	775	150	575	205	113-1070-006
245	15	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	615	150	735	205	112-1065-006
245	15	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	615	150	735	205	112-1059-006
245	15	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	615	150	735	205	113-1071-006
310	19	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	485	150	930	205	112-1066-006
310	19	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	485	150	930	205	112-1060-006
310	19	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	485	150	930	205	113-1072-006
310	19	50mm Keyed	4 Bolt ISO	1" BSP	485	150	930	205	112-1217-006
310	19	Bearingless Motor	4 Bolt	1-5/16" UNO	485	150	930	205	114-1080-006
390	23.9	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	387	150	1155	205	112-1067-006
390	23.9	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	387	150	1155	205	112-1061-006
390	23.9	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	387	150	1155	205	113-1073-006
390	23.9	50mm Keyed	4 Bolt ISO	1" BSP	387	150	1155	205	112-1218-006
490	30	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	307	150	1445	205	112-1068-006
490	30	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	307	150	1445	205	112-1062-006
490	30	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	307	150	1445	205	113-1074-006
490	30	50mm Keyed	4 Bolt ISO	1" BSP	307	150	1445	205	112-1361-006
625	38	1-1/2" Straight	4 Bolt SAE-CC	1-5/16" UNO	241	150	1480	170	112-1107-006
625	38	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	241	150	1480	170	112-1109-006
625	38	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	241	150	1480	170	112-1093-006
625	38	50mm Keyed	4 Bolt ISO	1" BSP	241	150	1480	170	112-1359-006
805	49	50mm Keyed	4 Bolt ISO	1" BSP	187	150	1582	140	112-1360-006
985	60	1-1/2" Keyed	4 Bolt SAE-CC	1-5/16" UNO	153	150	1685	140	112-1069-006
985	60	1-1/2" 17T Spline	4 Bolt SAE-CC	1-5/16" UNO	153	150	1685	140	112-1063-006
985	60	1-3/4" Tapered	Wheel Mount	1-5/16" UNO	153	150	1685	140	113-1075-006
985	60	50mm Keyed	4 Bolt ISO	1" BSP	153	150	1685	140	112-1219-006

Note: All of the above '6000' Series motors come with a case drain plugged with check valve.



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## Seals - 6000 Series

Part Number	Description
61237-000	Buna N Front/Shaft Seal Kit for -005 & -006 Designs (Std. and Whl. Motors)
61238-000	Buna N Rear Seal Kit for -005 & -006 Designs (Std. and Whl. Motors)
61239-000	Buna N Seal Kit for -005 & -006 Designs (Bearingless Motors Only)
61315-000	Big 6 Shaft Standard Seal Kit for -005 & -006 Designs
9900362-000	Big 6 Shaft Triple Lip Seal Kit for -005 & -006 Designs

# EATON ORBITAL MOTORS & STEERING



10,000



Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
480	29.3	2-1/4" Keyed	4 Bolt SAE-C	1-5/16" UNO	354	170	1475	205	119-1029-003
480	29.3	2-1/8" 16T Spline	4 Bolt SAE-C	1-5/16" UNO	354	170	1475	205	119-1033-003
665	40.6	2-1/4" Keyed	4 Bolt SAE-C	1-5/16" UNO	254	170	2085	205	119-1030-003
665	40.6	2-1/8" 16T Spline	4 Bolt SAE-C	1-5/16" UNO	254	170	2085	205	119-1034-003
940	57.4	2-1/4" Keyed	4 Bolt SAE-C	1-5/16" UNO	179	170	2700	190	119-1031-003
940	57.4	2-1/8" 16T Spline	4 Bolt SAE-C	1-5/16" UNO	179	170	2700	190	119-1035-003

Note: All of the above '10,000' Series motors come with a case drain plugged.



## Seals - 10,000 Series

Part Number	Description
6406-000	Buna N Front/Shaft Seal Kit for -002, -003 & -004 Designs
6405-000	Buna N Rear Seal Kit for -002, -003 & -004 Designs

## Seal Kits

### Spool valve motor

Series	Product	Designs	Seal Kit Type	Part Number
J2 Series	129-	-001	Buna N	60580-000
J2 series	129-	-002	Buna N	60580-000
H series	101-	-005, -006	Buna N	60036-000
H series	101-	-007	Buna N	60023-000
H series	101-	-007	Viton	60032-000
H series	101-	-008, -009	Buna N	60540-000
H series	101-	-008, -009	Viton	60545-000
S series	103-	-009, -010	Buna N	60539-000
S series	103-	-009, -010	Viton	60546-000
S series	103-	-011	Buna N	60564-000
S series	103-	-011	Viton	60565-000
S series	103-	-012	Buna N	9900101-000
S series	103-	-012	Viton	9900100-000
T series	158-	-001	Buna N	60564-000
T series	158-	-001	Viton	60565-000

### Disc valve motor

Series	Product	Designs	Description	Part Number
2000 series	104-, 105-	-003, -004, -005	Buna N	61252-000
2000 series	104-, 105-	-006	Buna N	61258-000
2000 series	104-, 105-	-006	Viton	61263-000
2000 series	106-	-006	Buna N	61259-000
4000 series	109-, 110-	-003	Buna N (rear)	61002-000
4000 series	109-, 110-	-003	Buna N (shaft)	61004-000
4000 series	109-, 110-	-004	Buna N (rear)	61234-000
4000 series	109-, 110-	-004	Buna N (shaft)	61236-000
4000 series	109-, 110-	-006	Buna N (rear)	61234-000
4000 series	109-, 110-	-006	Buna N (shaft)	61281-000
4000 series	109-, 110-	-006	Viton (complete)	61282-000
4000 series	111-	-004, -006	Buna N (bearingless)	61235-000
6000 series	112, 113-	-002, -003, -004	Buna N (shaft)	61104-000
6000 series	112, 113-	-002, -003, -004	Buna N (rear)	61105-000
6000 series	112, 113-	-005, -006	Buna N (shaft)	61237-000
6000 series	112, 113-	-005, -006	Buna N (rear)	61238-000
6000 series	112, 113-	-005, -006	Viton (complete)	61246-000
6000 series	112, 113-	-005, -006	Big 6 (shaft) std	61315-000
6000 series	112, 113-	-005, -006	Big 6 (shaft) Triple lip	9900362-000
6000 series	114-	-005, -006	Buna N (bearingless)	61239-000
6000 series	114-	-005, -006	Viton (bearingless)	61250-000
10000 series	119-, 120-	-002, -003, -004	Buna N (rear)	6405-000
10000 series	119-, 120-	-002, -003, -004	Buna N (shaft)	6406-000
10000 series	121-	-002, -003, -004	Buna N (rear)	6405-000

# EATON ORBITAL MOTORS & STEERING

## Shafts and Mounts

### Spool Valve Motor

Series	Design	Type	Description	Part Number
J2 series	-002	Shaft & Bearing	16mm Straight key	201354-002
H series	-009	Shaft & Bearing	1" Straight key	7360-001
H series	-009	Shaft & Bearing	1" 6B Spline	7360-002
H series	-009	Shaft & Bearing	7/8" 13T Spline	7360-016
H series	-009	Shaft & Bearing	25mm Straight Key	7360-024
H series	-009	Mounting	2 Bolt SAE-A	22000-001
H series	-009	Mounting	4 Bolt SAE-A	22000-002
H series	-009	Mounting	2 Bolt SAE-B	22000-004
S series	-012	Shaft & Bearing	1" Straight key	201616-001
S series	-012	Shaft & Bearing	1" 6B Spline	201616-002
S series	-012	Shaft & Bearing	7/8" 13T Spline	201616-016
S series	-012	Shaft & Bearing	25mm Straight Key	201616-024
S series	-012	Mounting	2 Bolt SAE-A	22000-001
S series	-012	Mounting	4 Bolt SAE-A	22000-002
S series	-012	Mounting	2 Bolt SAE-B	22000-004
S series	-012	Mounting	Magneto	22000-005
T series	-002	Shaft & Bearing	1" Straight key	7360-001
T series	-002	Shaft & Bearing	1" 6B Spline	7360-002
T series	-002	Shaft & Bearing	7/8" 13T Spline	7360-016
T series	-002	Shaft & Bearing	25mm Straight Key	7360-024
T series	-002	Mounting	2 Bolt SAE-A	22000-001
T series	-002	Mounting	4 Bolt SAE-A	22000-002
T series	-002	Mounting	2 Bolt SAE-B	22000-004
T series	-002	Mounting	Magneto	22000-005

### Disc valve motor

Series	Design	Type	Description	Part Number
2000 series	-006	Shaft & Bearing	1" Straight Key	21618-001
2000 series	-006	Shaft & Bearing	1-1/4" Straight Key	21618-002
2000 series	-006	Shaft & Bearing	1-1/4" Tapered	21618-003
2000 series	-006	Shaft & Bearing	1-1/4" 14T Spline	21618-004
2000 series	-006	Shaft & Bearing	1" 6B Spline	21618-005
2000 series	-006	Shaft & Bearing	32mm Straight Key	21618-023
2000 series	-006	Mounting	2 Bolt SAE-B	21578-001
2000 series	-006	Mounting	Wheel Mount	21578-003
2000 series	-006	Mounting	2 Bolt SAE-A	21578-004
2000 series	-006	Mounting	4 Bolt Diagonal	21578-005
2000 series	-006	Mounting	Magneto	21578-008
4000 series	-006	Shaft & Bearing	1-1/4" Straight Key	23310-001
4000 series	-006	Shaft & Bearing	1-5/8" Tapered	23310-002
4000 series	-006	Shaft & Bearing	1-1/4" 14T Spline	23310-003
4000 series	-006	Shaft & Bearing	40mm Straight Key	23310-010
6000 series	-006	Shaft & Bearing	1-1/2" Straight Key	201837-001
6000 series	-006	Shaft & Bearing	1-3/4" Tapered	201837-002
6000 series	-006	Shaft & Bearing	1-1/2" 17T Spline	201837-003
6000 series	-006	Shaft & Bearing	40mm Straight Key	201837-010
10000 series	-006	Shaft & Bearing	2-1/8" 16T Spline	8482-000
10000 series	-006	Shaft & Bearing	2-1/4" Straight Key	8484-000
10000 series	-006	Shaft & Bearing	2-1/4" Tapered	8483-000

# EATON ORBITAL MOTORS & STEERING



## XLH Series



Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	CI				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
53	3.2	1" Keyed	2 Bolt SAE-A	1/2" BSP	721	38	83	124	016-0055-002
53	3.2	1" Keyed	4 Bolt SAE-A	1/2" BSP	721	38	83	124	016-0236-002
53	3.2	25mm Keyed	2 Bolt SAE-A	1/2" BSP	721	38	83	124	012-0630-002
63	3.8	1" Keyed	2 Bolt SAE-A	1/2" BSP	693	45	104	124	016-0056-002
63	3.8	1" Keyed	4 Bolt SAE-A	1/2" BSP	693	45	104	124	016-0237-002
63	3.8	25mm Keyed	2 Bolt SAE-A	1/2" BSP	693	45	104	124	012-0631-002
80	4.9	1" Keyed	2 Bolt SAE-A	1/2" BSP	710	57	130	124	016-0057-002
80	4.9	1" Keyed	4 Bolt SAE-A	1/2" BSP	710	57	130	124	016-0238-002
80	4.9	25mm Keyed	2 Bolt SAE-A	1/2" BSP	710	57	130	124	012-0632-002
100	6.1	1" Keyed	2 Bolt SAE-A	1/2" BSP	568	57	162	124	016-0058-002
100	6.1	1" Keyed	4 Bolt SAE-A	1/2" BSP	568	57	162	124	016-0239-002
100	6.1	25mm Keyed	2 Bolt SAE-A	1/2" BSP	568	57	162	124	012-0633-002
160	9.8	1" Keyed	2 Bolt SAE-A	1/2" BSP	354	57	242	115	016-0060-002
160	9.8	1" Keyed	4 Bolt SAE-A	1/2" BSP	354	57	242	115	016-0241-002
160	9.8	25mm Keyed	2 Bolt SAE-A	1/2" BSP	354	57	242	115	012-0634-002
200	12.2	1" Keyed	2 Bolt SAE-A	1/2" BSP	286	57	287	110	016-0061-002
200	12.2	1" Keyed	4 Bolt SAE-A	1/2" BSP	286	57	287	110	016-0242-002
200	12.2	25mm Keyed	2 Bolt SAE-A	1/2" BSP	286	57	287	110	012-0635-002
245	14.9	1" Keyed	2 Bolt SAE-A	1/2" BSP	234	57	318	100	016-0062-002
315	19.2	1" Keyed	2 Bolt SAE-A	1/2" BSP	174	57	377	90	016-0063-002

# EATON ORBITAL MOTORS & STEERING



## XLS Series



Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	Cl				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
50	3.1	25mm Keyed	2 Bolt SAE-A	1/2" BSP	741	38	103	138	036-0131-002
80	4.9	25mm Keyed	2 Bolt SAE-A	1/2" BSP	701	57	171	138	036-0132-002
100	6.1	25mm Keyed	2 Bolt SAE-A	1/2" BSP	554	57	216	138	036-0133-002
160	9.8	25mm Keyed	2 Bolt SAE-A	1/2" BSP	353	57	298	124	036-0135-002
195	11.9	25mm Keyed	2 Bolt SAE-A	1/2" BSP	286	57	342	124	036-0136-002
245	14.9	25mm Keyed	2 Bolt SAE-A	1/2" BSP	230	57	391	110	036-0137-002
305	18.6	25mm Keyed	2 Bolt SAE-A	1/2" BSP	180	57	417	97	036-0138-002



# EATON ORBITAL MOTORS & STEERING



## XL2 Series



Displacement		Shaft	Mount	Ports	Maximum Continuous				Part Number
CC	Cl				Speed (rpm)	Flow (lpm)	Torque (Nm)	Pressure (bar)	
80	4.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	908	75	235	205	629AG00105A
100	6.1	32mm Keyed	4 Bolt Diagonal	1/2" BSP	739	75	295	205	629AG00106A
130	7.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	575	75	385	205	629AG00107A
160	9.8	32mm Keyed	4 Bolt Diagonal	1/2" BSP	477	75	455	205	629AG00108A
195	11.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	385	75	540	205	629AG00109A
195	11.9	1-1/4" 14T Splined	2 Bolt SAE-A	7/8" UNO	385	75	540	205	629AG00114A*
245	14.9	32mm Keyed	4 Bolt Diagonal	1/2" BSP	308	75	660	205	629AG00110A
245	14.9	1-1/4" 14T Splined	2 Bolt SAE-A	7/8" UNO	308	75	660	205	629AG00115A*
305	18.6	32mm Keyed	4 Bolt Diagonal	1/2" BSP	246	75	765	205	629AG00111A
305	18.6	1-1/4" 14T Splined	2 Bolt SAE-A	7/8" UNO	246	75	765	205	629AG00116A*
395	24.1	32mm Keyed	4 Bolt Diagonal	1/2" BSP	191	75	775	155	629AG00112A
395	24.1	1-1/4" 14T Splined	2 Bolt SAE-A	7/8" UNO	191	75	775	155	629AG00117A*
492	30	1-1/4" 14T Splined	2 Bolt SAE-A	7/8" UNO	153	75	845	120	629AG00129A*

\*Note: Comes standard with a high pressure shaft seal and seal guard.

# EATON ORBITAL MOTORS & STEERING



## Xcel Spares

Series	Product	Type	Design	Seal Kit	
XLH	016-	Buna N	-002	Z331-23	
XLH	012-	Buna N	-001	Z331-05	
XLS	036-	Buna N	-002	Z331-25	
XL2	629AG	Buna N	A	Z331-02	
XL2	629AG	Buna N (HP Shaft Seal & Seal Guard)	A	Z331-45	



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## Steering Units

Displacement		Series	System	Load Circuit	Rated Flow	Part Number	
CC	CI						
95	5.9	Series 6	Open Centre	Non Load Reaction	4-8 (15-30)	211-1008-002	
160	9.7	Series 6	Open Centre	Non Load Reaction	4-8 (15-30)	211-1010-002	
185	11.3	Series 6	Open Centre	Non Load Reaction	4-8 (15-30)	211-1011-002	
295	17.9	Series 6	Open Centre	Non Load Reaction	4-8 (15-30)	211-1158-002	
370	22.6	Series 12	Open Centre	Non Load Reaction	8-16 (30-60)	211-1177-002	
739	45.1	Series 12	Closed Centre	Non Load Reaction	8-16 (30-60)	212-1017-002	

## Steering Wheels

Part Number	Description	
209-1007-001	Steering Wheel	
208-1013-001	Horn Button	
21084-000	Hex Hut	



## Steering Columns

Part Number	Nominal Jacket Length	Shaft Type	Horn Wire	
204-1001-007	2.5"	Key	No	
204-1002-007	2.5"	Serrated	No	
204-1003-007	6"	Key	No	
204-1004-007	6"	Serrated	No	
204-1007-007	6"	Serrated	1 Wire	
204-1011-007	25.5"	Serrated	1 Wire	
204-1017-007	18"	Serrated	1 Wire	
204-1034-007	12"	Serrated	No	

