

MODEL 6811KM.CO₂



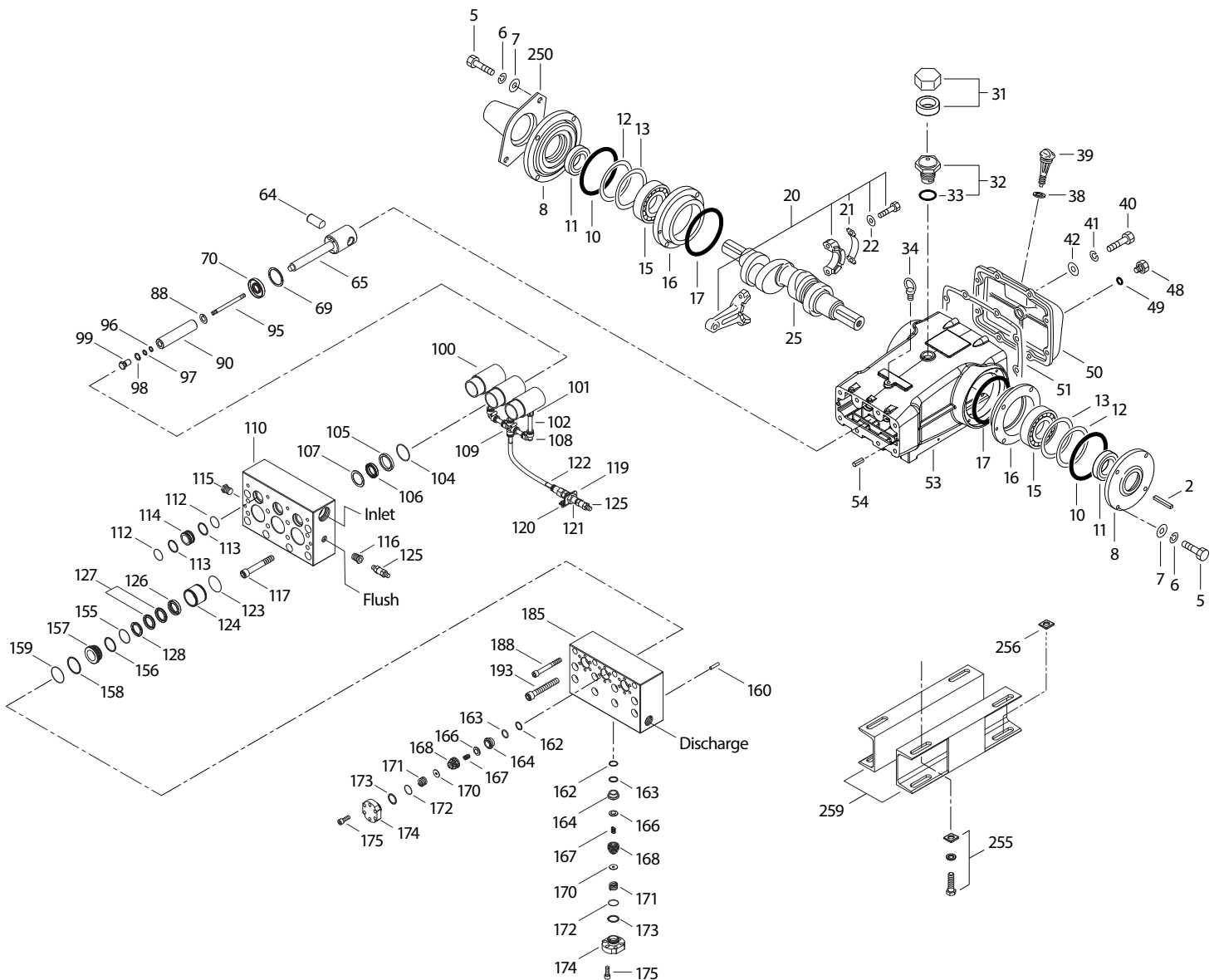
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	7.2 gpm	27.2 lpm
Pressure Range	400–5000 psi	27.6–345 bar
Pump RPM*	450	450
Inlet Pressure Range**	300–800 psi	21–55 bar
Min. Liquid Temperature	-20° F	-29° C
Bore	0.984"	25 mm
Stroke	2.579"	65.5 mm
Crankcase Capacity	10 qts	9.46 l

SPECIFICATIONS	U.S. Measure	Metric Measure
Inlet Ports (2)	1½" NPT(F)	1½" NPT(F)
Flush Ports (2)	½" NPT(F)	½" NPT(F)
Discharge Ports (2)	1" NPT(F)	1" NPT(F)
Shaft Diameter	1.772"	45 mm
Pulley Mounting	Either Side	Either Side
Weight	355 lbs	161 kg
Dimensions	29.68 x 23.98 x 11.97"	754 x 609 x 304 mm

*Pump minimum is 100 RPM.

** Temperature and pressure must be maintained to keep incoming CO₂ in a liquid state.

EXPLODED VIEW



(Parts List on Reverse Side)

April 2022

PARTS LIST

ITEM	PN	MATL	DESCRIPTION	QTY
2	43048	STL	Key (M14 x 9 x 90)	1
5	89728	S	Screw, HH (M10 x 40) (See Tech Bulletin 074)	8
6	15847	S	Lockwasher (M10)	8
7	19934	S	Washer, Flat (M10)	8
8	29443	ALE	Cover, Bearing, Outer (See Tech Bulletin 118)	2
10	29444	NBR	O-Ring, Bearing Cover-70D	2
11	11443	NBR	Seal, Oil, Crankshaft	2
12	126594	STCP R	Washer, Shim (M120 x 0.3)	0-2
13	126595	STCP R	Washer, Shim (M120 x 0.5)	0-2
15	29441	STL	Bearing, Roller	2
16	29442	STL	Cover, Bearing, Inner	2
17	29444	NBR	O-Ring, Bearing Cover-70D	2
20	766612	BBHS	Assembly, Connecting Rod (Includes: 21, 22) (See Tech Bulletin 074)	3
21	126560	STCP R	Washer, Locking	3
22	126593	STCP R	Washer, Shim (M10.5 x 1.5)	6
25	29440	FCM	Crankshaft, Dual Shaft (M65.5)	1
31	828710	PE	Protector, Oil Cap with Foam Gasket	1
32	43211	ABS	Cap, Oil Filler	1
33	14177	NBR	O-Ring, Filler Cap-70D	1
34	126743	STCP R	Bolt, Eye (M12) (For Lifting Pump Only)	1
38	129343	RBR	Gasket, Flat Flex	1
39	27769	ABS	Stick, Dip	1
40	89627	S	Screw, HH (M10 x 30) (See Tech Bulletin 074)	8
41	15847	S	Lockwasher (M10)	8
42	19934	S	Washer, Flat (M10)	8
48	25625	STCP	Plug, Drain (1/4" x 19 BSP)	1
49	23170	NBR	O-Ring, Drain Plug-70D	1
50	29438	ALE	Cover, Rear (See Tech Bulletin 118)	1
51	129386	NBR	Gasket, Rear Cover	1
53	133667	ALE	Crankcase (Includes: 34, 54) (See Tech Bulletin 118)	1
54	43282	S	Pin, Guide	2
64	769481	CM	Pin, Crosshead	3
65	768735	SSZZ	Rod, Plunger	3
69	126588	STCP R	Washer, Oil Seal	3
70	29454	NBR	Seal, Oil Crankcase	3
88	45676	S	Washer, Keyhole (M16)	3
90	43866	CC	Plunger (M25 x 145)	3
95	89778	SS	Stud, Plunger Retainer (M10 x 135)	3
96	20189	PTFE	Backup Ring, Plunger Retainer	3
97	11345	NBR	O-Ring, Plunger Retainer - 70D	3
98	44085	SS	Gasket, Plunger Retainer	3
99	44084	SS	Retainer, Plunger (M10) (See Tech Bulletin 074)	3
100	703222	D	Retainer, Seal	3
101	703146	BBNP	Adapter, Tubing (3/8" NPT(M) x 12MM)	3
102	703142	NY	Tubing (12MM)	6
103	998550	NY	Nipple (1/2" NPT(M) x 1/4" NPT(M))	1
104	43875	NBR	O-Ring, Adapter, Inlet-70D	3
105	701323	SS	Adapter, Inlet, Low-Pressure	3
106	701944	SFTA	Seal, Low-Pressure, with SS-Spring	3
107	44089	SS	Washer, Low-Pressure	3
108	703145	D	Elbow (12MM)	2

ITEM	PN	MATL	DESCRIPTION	QTY
109	703144	D	Cross, Barb (12MM)	1
110	701322	SS	Manifold Inlet, Block-Style, Flushed	1
111	701116	SS	Plug, Inlet Manifold [1 1/2" NPT(M)] (Not shown)	1
112	701632	NBR	O-Ring, Spacer	6
113	701329	PTFE	Backup Ring, Spacer	6
114	701327	SS	Spacer, Inlet	3
115	45156	SS	Plug, Hex Head [1/2" NPT(M)]	1
116	998032	SS	Bushing [1/2" NPT(M) x 1/4" NPT(M)]	1
117	89694	S	Screw, HSH (M16 x 110) (See Tech Bulletin 074)	6
119	34347	STZP	Bracket	1
120	990776	STZP R	Screw, HHC (1/4" - 20 x 1/2")	2
121	34338	BB	Union [1/4" NPT(M)]	1
122	703147	BBNP	Adapter, Tubing [1/2" NPT(F) x 12MM]	1
123	12391	NBR	O-Ring, V-Packing Cylinder-70D	3
124	701324	SS	Cylinder, V-Packing	3
125	33937	SS	Valve, Check [1/4" NPT(M)]	2
126	701325	SS	Adapter, Female	3
127	44610	STG	V-Packing	6
128	701326	SS	Adapter, Male	3
155	11379	NBR	O-Ring, V-Packing Spacer, Inner-70D	3
156	28243	PTFE	Backup Ring, Spacer, Inner	3
157	701294	SS	Spacer, V-Packing	3
158	28243	PTFE	Backup Ring, Spacer, Outer	3
159	11379	NBR	O-Ring, V-Packing Spacer, Outer-70D	3
160	44756	S	Pin, Guide	2
162	21985	PTFE	Backup Ring, Seat	6
163	26089	NBR	O-Ring, Seat-80D	6
164	44080	SS	Seat	6
166	44081	SS	Valve	6
167	44082	SS	Spring	6
168	44735	PVDF	Retainer, Spring	6
170	44794	SS	Washer, Retainer	6
171	44793	SS	Spring, Coil	6
172	15853	NBR	O-Ring, Valve Plug-70D	6
173	20224	PTFE	Backup Ring, Valve Plug	6
174	701260	SS	Plug, Valve	6
175	87951	S	Screw, HSH (M10 x 30) (See Tech Bulletin 074)	36
185	701320	SS	Manifold, Discharge, Block-Style	1
188	701279	S	Screw, HSH (M12 x 100), Lower	4
193	89694	S	Screw, HSH (M16 x 110), Upper	8
250	29445	ALE	Protector, Shaft (See Tech Bulletin 118)	1
255	33243	STZP	Direct, Mount (Included with Pump)	1
256	29649	STCP	Washer, Slant (M16) (Ensures Proper Alignment Between the Rail and Mounting Screw)	4
259	126604	STCP R	Rail, Box (Included with Pump)	2
290	6124	—	Gasket, Liquid (3 oz)	1
300	76289	NBR*	Kit, Seal (Includes: 97, 104, 106, 112, 113, 123, 127, 155, 156, 158, 159)	1
310	34151	NBR	Kit, Valve (Includes: 162-164, 166-168, 170-173)	2
—	6102	—	Oil, (Jug 2.5 gal) ISO-68 Hydraulic (Fill to Specified Crankcase Capacity Prior to Start-up)	1
—	6139	—	Lubricant, Antiseize (8 oz) (See Tech Bulletin 095)	1

*Review individual parts in each kit for material code identification. Italics are optional items.

R Components comply with RoHS Directive. For additional technical information see www.catpumps.com/literature/tech-bulletins.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic ALE=Aluminum Epoxy BB=Brass BBHS=Brass/High Strength BBNP=Brass/Nickel Plated CC=Ceramic
CM=Chrome-Moly D=Acetal FCM=Forged Chrome-Moly NBR=Medium Nitrile (Buna-N) NY=Nylon PE=Polyethylene PTFE=Pure Polytetrafluoroethylene
PVDF=Polyvinylidene Fluoride RBR=Rubber S=304SS SS=316SS STG=Special Blend PTFE White SFTA=Special Blend PTFE Tan SSZZ=316SS/Zamak
STCP=Steel/Chrome Plated STL=Steel STZP=Steel/Zinc Plated

⚠ CAUTIONS AND WARNINGS

All high-pressure systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices could result in personal injury or damage to pump or property. Cat Pumps does not assume any liability or responsibility for the operation of a customer's high-pressure system.

Read all CAUTIONS and WARNINGS before commencing service or operation of any high-pressure system. The CAUTIONS and WARNINGS are included in each Service Manual and with each Accessory Data sheet. CAUTIONS and WARNINGS can also be viewed online at www.catpumps.com/dynamic-literature/cautions-and-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty online at www.catpumps.com/literature/cat-pumps-limited-warranty