

MODEL 6841KM.CO₂



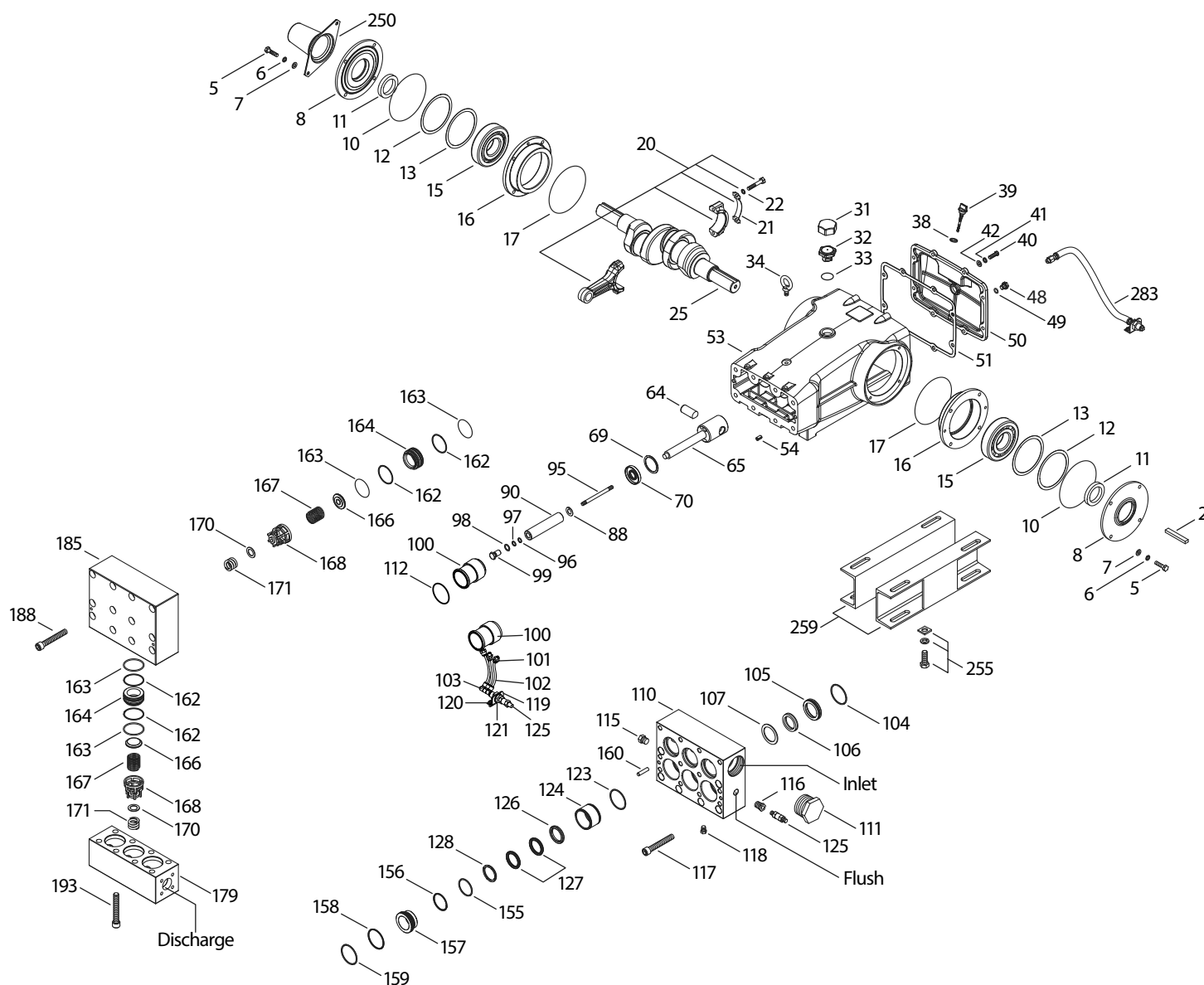
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	30.0 gpm	113.6 lpm
Pressure Range	400 – 2000 psi	27.6 – 138 bar
Max. RPM*	450 rpm	450 rpm
Inlet Pressure Range**	300 – 800 psi	21 – 55 bar
Min. Liquid Temperature**	-20°F	-29°C
Bore	1.772"	45mm
Stroke	2.579"	65.5mm

SPECIFICATIONS	U.S. Measure	Metric Measure
Crankcase Capacity	10 qts.	9.5 l
Inlet Ports (2)	2 ½" NPT(F)	2 ½" NPT(F)
Flush Ports (2)	½" NPT(F)	½" NPT(F)
Discharge Ports (2)	1 ¼" NPT(F)	1 ¼" NPT(F)
Shaft Diameter	1.772"	45mm
Weight	355 lbs.	161 kg
Dimensions	29.66 x 24.02 x 12.00"	753 x 610 x 305mm

* Pump minimum is 100 RPM.

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

EXPLODED VIEW



PARTS LIST

ITEM	PN	MATL	DESCRIPTION	QTY	ITEM	PN	MATL	DESCRIPTION	QTY
2	43048	STL	Key (M14 x 9 x 90)	1	105	701355	SS	Adapter, LPS	3
5	89728	S	Screw, HH (M10 x 40) (See Tech Bulletin 074)	8	106	703359	SFTB	Seal, LPS, with SS-Spring	3
6	15847	S	Lockwasher (M10)	8	107	701356	SS	Washer, LPS	3
7	19934	S	Washer, Flat (M10)	8	110	701343	SS	Manifold, Inlet - Block-Style, Flushed	1
8	29443	AL	Cover, Bearing, Outer (See Tech Bulletin 118)	2	111	701353	SS	Plug, Inlet Manifold [2 ½" NPT(M)]	1
10	29444	NBR	O-Ring, Bearing Cover – 70D	2	112	12392	NBR	O-Ring, Seal Retainer – 70D	3
11	11443	NBR	Seal, Oil, Crankshaft	2	115	45156	SS	Plug, Hex Head [½" NPT(M)]	1
12	126594	STCP R	Washer, Shim (M120 x 0.3)	0–2	116	998032	SS	Bushing [½" NPT(M) x ¼" NPT(M)]	1
13	126595	STCP R	Washer, Shim (M120 x 0.5)	0–2	117	89694	S	Screw, HSH (M16 x 110) (See Tech Bulletin 074)	6
15	29441	STL	Bearing, Roller	2	118	701077	SS	Plug [¼" NPT(M)]	3
16	29442	STL	Cover, Bearing, Inner	2	119	34347	STZP	Bracket	1
17	29444	NBR	O-Ring, Bearing Cover – 70D	2	120	990776	STZP R	Screw, HHC (¼" - 20 x 1/2")	2
20	766612	BBHS	Assembly, Connecting Rod (Includes: 21, 22) (See Tech Bulletin 074)	3	121	34338	BB	Union, [¼" NPT(M)]	1
21	126560	STCP R	Washer, Locking	3	123	18178	NBR	O-Ring, V-Packing Cylinder – 80D	3
22	126593	STCP R	Washer, Shim (M10.5 x 1.5)	6	124	701357	SS	Cylinder, V-Packing	3
25	29440	FCM	Crankshaft, Dual Shaft	1	125	33937	SS	Valve, Check [¼" NPT(M)]	2
31	828710	PE	Protector, Oil Cap with Foam Gasket	1	126	701358	SS	Adapter, Female	3
32	43211	ABS	Cap, Oil Filler	1	127	104450	STG	V-Packing	6
33	14177	NBR	O-Ring, Filler Cap – 70D	1	128	701359	SS	Adapter, Male	3
34	126743	STCP R	Bolt, Eye (M12) (For Lifting Pump Only)	1	155	701978	NBR	O-Ring, V-Packing Spacer, Inner	3
38	129343	RBR	Gasket, Flat Flex	1	156	701361	PTFE	Backup Ring, V-Packing Spacer, Inner	3
39	27769	ABS	Stick, Dip	1	157	701362	SS	Spacer, V-Packing with Coil Springs	3
40	89627	S	Screw, HH (M10 x 30) (See Tech Bulletin 074)	8	158	701363	PTFE	Back-up Ring, V-Packing Spacer, Outer	3
41	15847	S	Lockwasher (M10)	8	159	18178	NBR	O-Ring, V-Packing Spacer, Outer – 80D	3
42	19934	S	Washer, Flat (M10)	8	160	44756	S	Pin, Guide	2
48	25625	STCP	Plug, Drain (¼"x 19BSP)	1	162	23116	PTFE	Back-up Ring, Seat	12
49	23170	NBR	O-Ring, Drain Plug – 70D	1	163	12392	NBR	O-Ring, Seat – 70D	12
50	29438	AL	Cover, Rear (See Tech Bulletin 118)	1	164	46173	SS	Seat	6
51	129386	NBR	Gasket, Rear Cover	1	166	44774	SS	Valve	6
53	45303	AL	Crankcase (Includes: 34, 54) (See Tech Bulletin 118)	1	167	44773	SS	Spring	6
54	43282	S	Pin, Guide	2	168	44775	PVDF	Retainer, Spring	6
64	769481	CM	Pin, Crosshead	3	170	44776	SS	Washer, Retainer	6
65	76384	SSZZ	Rod, Plunger	3	171	701354	SS	Spring, Coil Retainer	6
69	126588	STCP R	Washer, Oil Seal	3	179	46176	SS	Manifold, Discharge – Block-Style	1
70	29454	NBR	Seal, Oil Crankcase	3	185	46171	SS	Manifold, Valve – Block-Style	1
88	45677	SS	Washer, Keyhole (M16)	3	188	89694	S	Screw, HSH (M16 x 110), Lower (See Tech Bulletin 074)	12
90	45672	CC	Plunger (M45 x 185)	3	193	89694	S	Screw, HSH (M16 x 110), Upper (See Tech Bulletin 074)	8
95	44748	SS	Stud, Plunger Retainer (M14 x 147)	3	250	29445	AL	Protector, Shaft (See Tech Bulletin 118)	1
96	20214	PTFE	Back-up Ring, Plunger Retainer	3	255	33243	STZP	Kit, Mount (Included with Pump)	1
97	17616	NBR	O-Ring, Plunger Retainer – 80D	3	259	126604	STCP R	Rail, Box (Included with Pump)	2
98	44751	SS	Gasket, Plunger Retainer	3	275	990014	STL	Hub, "B", M45 with Keyway [See Tech Bulletin 003]	1
99	44750	SS	Retainer, Plunger (M14) (See Tech Bulletin 074)	3	283	34314	—	Kit, Oil Drain (¾" x 48")	1
100	31224	D	Retainer, Seal	3	290	6124	—	Gasket, Liquid (3 oz.)	1
101	999490	D	Adapter, (¼" x 1/8" NPT)	3	300	76098	NBR*	Kit, Seal (Includes: 97, 104, 106, 123, 127, 155, 156, 158, 159)	1
102	999492	NY	Tubing, ¼" OD	3	310	34105	NBR	Kit, Valve (Includes: 162–164, 166, 167, 168, 170, 171)	2
103	999491	PLM	Manifold, (3 x ¼")	1	—	6105	—	Oil, Twin Pack (2-2.5 Gal) ISO-68 Hydraulic (Fill to specified crankcase capacity prior to start-up)	1
104	18178	NBR	O-Ring, LPS Adapter – 80D	3	—	6119	—	Lubricant, Anti-seize (2 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 AL=Aluminum BB=Brass BBHS=Brass/High Strength BBNP=Brass/Nickel Plated CC=Ceramic

CM=ChromeMoly D=Acetal FCM=Forged Chrome-Moly NBR=Medium Nitrile (Buna-N) NY=Nylon PE=Polyethylene PLM=Unspecified Poly

PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride RBR=Rubber S=304SS SS=316SS SFTB=Special Blend Black

SSZZ=316SSZamak STCP=Steel/Chrome Plated STG=Special Blend PTFE White

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 on-line at www.catpumps.com/literature/cat-pumps-limited-warranty