

MODEL 6841KM.CO2



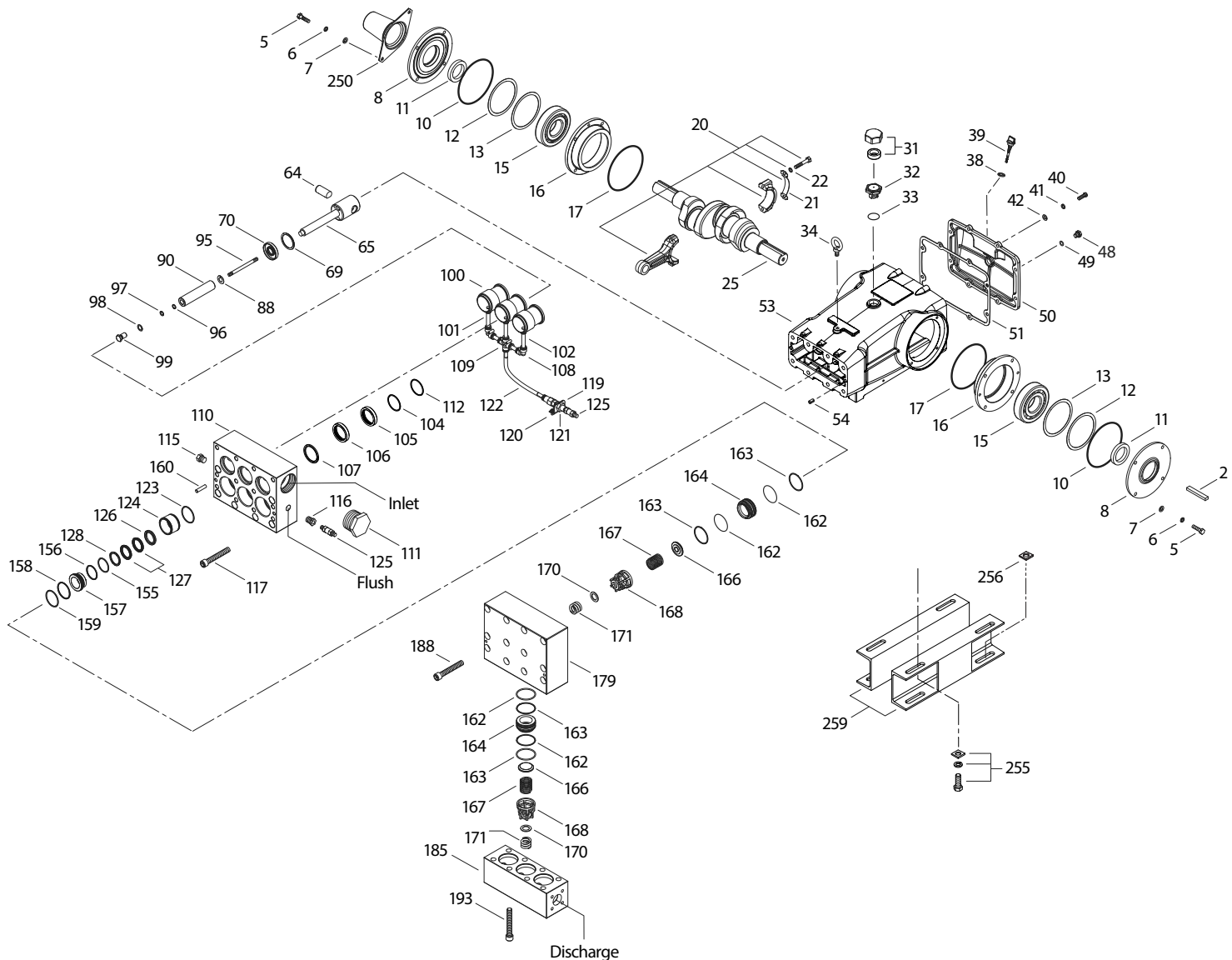
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	30.0 gpm	113.6 lpm
Pressure Range	400–2000 psi	27.6–138 bar
Pump RPM*	450 rpm	450 rpm
Inlet Pressure Range**	300–800 psi	21–55 bar
Min. Liquid Temperature**	-20° F	-29° C
Bore	1.772"	45mm
Stroke	2.579"	65.5mm
Crankcase Capacity	10 qts	9.5 l

SPECIFICATIONS	U.S. Measure	Metric Measure
Inlet Ports (2)	2½" NPT(F)	2½" NPT(F)
Flush Ports (2)	½" NPT(F)	½" NPT(F)
Discharge Ports (2)	1¼" NPT(F)	1¼" NPT(F)
Shaft Diameter	1.772"	45mm
Pulley Mounting	Either Side	Either Side
Weight	355 lbs	161 kg
Dimensions	28.95 x 24.37 x 13.15"	735 x 619 x 334mm

* 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)

January 2026

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	2
10	29444	NBR O-Ring, Cover, Bearing	2
11	11443	NBR Seal, Oil, Crankshaft	2
12	126594	STCP R Shim, Washer (M120 x 0.3)	0–2
13	126595	STCP R Shim, Washer (M120 x 0.5)	0–2
15	29441	STL Bearing, Roller	2
16	29442	STL Cover, Bearing, Inner	2
17	29444	NBR O-Ring, Cover, Bearing	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 Shim, Washer (M10.5 x 1.5)	6
25	29440	FCM Crankshaft, Dual-End (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	1
34	126743	STCP R Bolt, Eye (M12) (For Lifting Pump Only)	1
38	129343	RBR Gasket, Flat Flexible	1
39	27769	ABS Dip Stick (Blue)	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 (¼" x 19 BSP)	1
49	23170	NBR O-Ring, Drain Plug	1
50	29438	ALE Cover, Rear	1
51	129386	NBR Gasket, Cover, Rear	1
53	133667	ALE Crankcase Assembly (Includes: 54)	1
54	43282	S Pin, Guide	2
64	769481	CM Pin, Crosshead	3
65	76384	SSZZ Rod, Plunger	3
69	126588	STCP R Washer, Oil Seal	3
70	29454	NBR Seal, Oil Crankcase	3
88	45677	SS Washer, Keyhole (M16)	3
90	45672	CC Plunger (M45 x 185)	3
95	44748	SS Stud, Plunger Retainer (M14 x 147)	3
96	20214	PTFE Backup Ring, Plunger Retainer	3
97	49839	NBR O-Ring, Plunger Retainer	3
98	44751	SS Gasket, Plunger Retainer	3
99	44750	SS Retainer, Plunger (M14) (See Tech Bulletin 074)	3
100	31224	D Retainer, Seal	3
101	999490	D Adapter, (¼" x ⅛" NPT)	3
102	999492	NY Tubing, ¼" OD	3
103	999491	PLM Manifold, (3 x ¼")	1
104	18178	NBR O-Ring, Low-Pressure, Adapter	3

ITEM	PN	MATL DESCRIPTION	QTY
105	701355	SS Adapter, Low-Pressure	3
106	703359	SFTB Seal, Low-Pressure, with SS-Spring	3
107	701356	SS Washer, Low-Pressure	3
110	701343	SS Manifold, Inlet, Block-Style, Flushed	1
111	701353	SS Plug, Inlet Manifold (2½" NPT[M])	1
112	12392	NBR O-Ring, Seal Retainer	3
115	45156	SS Plug, Hex Head (½" NPT[M])	1
116	998032	SS Bushing (½" NPT[M] x ¼" 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 (¼" - 20 x ½")	2
121	34338	BB Union, (¼" NPT[M])	1
123	18178	NBR O-Ring, V-Packing Cylinder	3
124	701357	SS Cylinder, V-Packing	3
125	33937	SS Valve, Check (¼" NPT[M])	2
126	701358	SS Adapter, Female	3
127	104450	STG V-Packing	6
128	701359	SS Adapter, Male	3
155	701978	NBR O-Ring, V-Packing Spacer, Inner	3
156	701361	PTFE Backup Ring, V-Packing Spacer, Inner	3
157	701362	SS Spacer, V-Packing with Coil Springs	3
158	701363	PTFE Backup Ring, V-Packing Spacer, Outer	3
159	18178	NBR O-Ring, V-Packing Spacer, Outer	3
160	44756	S Pin, Guide	2
162	23116	PTFE Backup Ring, Seat	12
163	12392	NBR O-Ring, Seat	12
164	46173	SS Seat	6
166	44774	SS Valve	6
167	44773	SS Spring	6
168	44775	PVDF Retainer, Spring	6
170	44776	SS Washer, Retainer	6
171	701354	SS Spring, Coil Retainer	6
179	46171	SS Manifold, Valve, Block-Style	1
185	46176	SS Manifold, Discharge, Block-Style	1
188	89694	S Screw, HSH (M16 x 110), Lower (See Tech Bulletin 074)	12
193	89694	S Screw, HSH (M16 x 110), Upper (See Tech Bulletin 074)	8
250	29445	ALE Protector, Shaft	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
275	990014	STL Hub, "B", M45 with Keyway (Not Shown)	1
283	34314	— Kit, Oil Drain (⅜" x 48") (Not Shown)	1
290	6124	— Gasket, Liquid (3 oz)	1
300	76098	NBR* Kit, Seal (Includes: 97, 104, 106, 112, 123, 127, 155, 156, 158, 159)	1
310	34105	NBR Kit, Valve (Includes: 162–164, 166, 167, 168, 170)	2
—	6102	— Oil, Jug (2.5 gal) (Fill to Specified Crankcase Capacity Prior to Start-up)	1
—	6139	— Lubricant, Anti-seize (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=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 (e.g. regulator, unloader) and a secondary pressure relief device (e.g. 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