

MODEL 1051CM.CO2

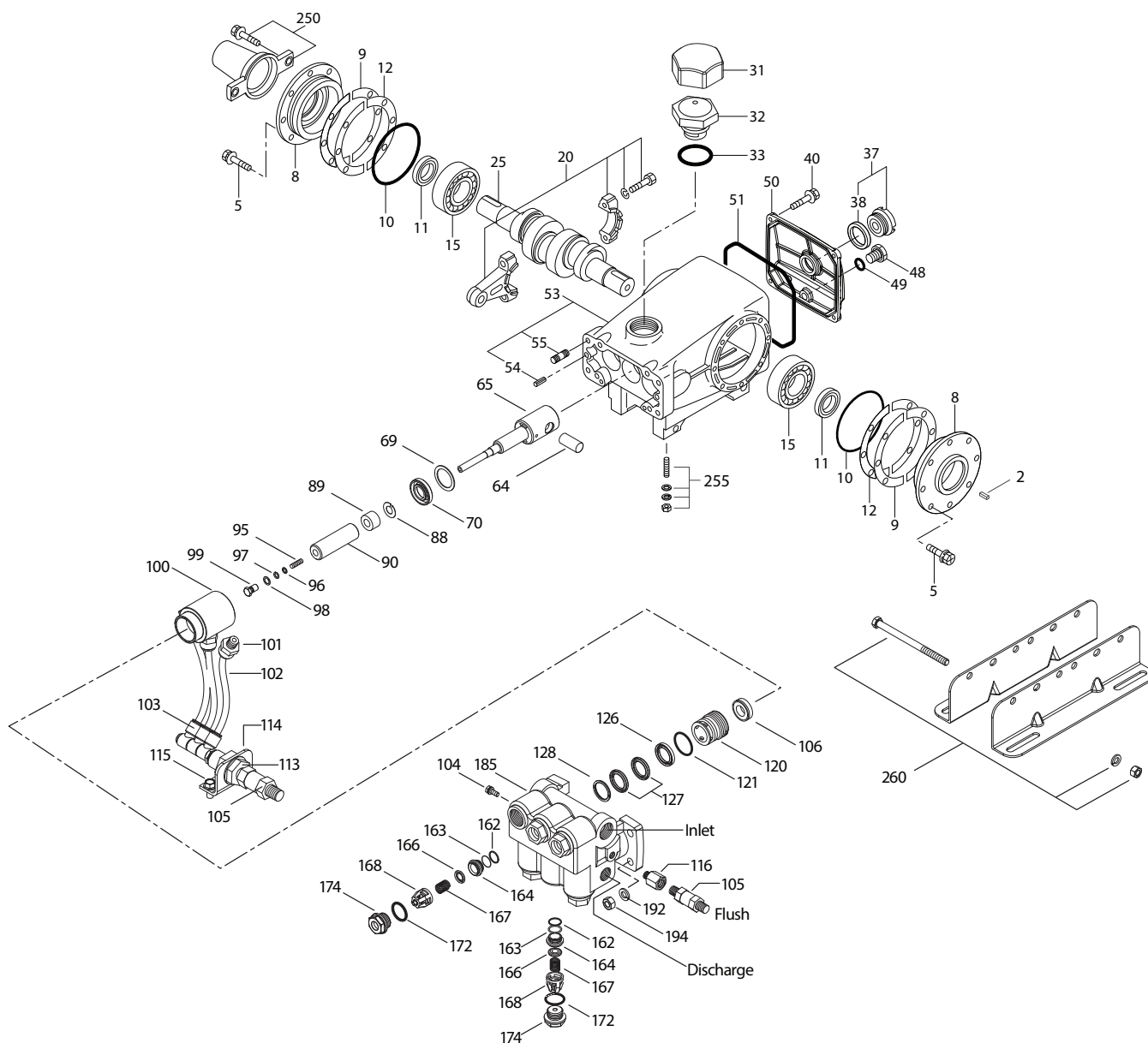
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	4.0 gpm	15 lpm
Pressure Range	400 – 2200 psi	27.5 – 152 bar
Pump RPM*	450	450
Inlet Pressure Range**	300 – 400 psi	21 – 27.5 bar
Min. Liquid Temperature	-20° F	-29° C
Bore	0.945"	24 mm
Stroke	1.181"	30 mm
Crankcase Capacity	42 oz.	1.26 l
Inlet Ports (2)	¾" NPT(F)	¾" NPT(F)

SPECIFICATIONS	U.S. Measure	Metric Measure
Flush Ports (2)	⅛" NPT(F)	⅛" NPT(F)
Discharge Ports (2)	½" NPT(F)	½" NPT(F)
Shaft Diameter	1.181"	30 mm
Pulley Mounting	Either Side	Either Side
Weight	44 lbs.	20 kg
Dimensions	16.28 x 12.99 x 6.44"	414 x 330 x 164 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)

July 2020

PARTS LIST

ITEM	PN	MATL	DESCRIPTION	QTY
2	30067	STL	<i>Key (M8 x 7.5 x 25)</i>	1
5	49651	S	Screw, HHC Sems (M8 x 20) (See Tech Bulletin 074, 128)	8
8	134805	AL	Cover, Bearing (See Tech Bulletin 118, 128)	2
9	855043	FBR	Shim, Split, Bearing Cover 2 – Piece (See Tech Bulletin 128)	2/4
10	11340	NBR	O-Ring, Bearing Cover – 70D	2
11	43495	NBR	Seal, Oil, Crankshaft	2
12	855044	S	Shim, Split, Bearing Cover 2 – Piece (See Tech Bulletin 128)	0/4
15	39060	STL	Bearing, Roller	2
20	768600	TNM	Rod, Connecting Assembly (with PLM Bushing) (See Tech Bulletin 074)	3
25	43494	FCM	Crankshaft, Dual End	1
31	828710	PE	<i>Protector, Oil Cap with Foam Gasket</i>	1
32	43211	ABS	Cap, Oil Filler	1
33	14177	NBR	O-Ring, Filler Cap – 70D	1
37	92241	PC	Gauge, Oil, Bubble with Gasket – 80D	1
38	44428	NBR	Gasket, Flat, Oil Gauge – 80D	1
40	92542	S	Screw, HHC Sems (M6 x 20)	4
48	25625	STCP	Plug, Drain (1/4"x19 BSP)	1
49	23170	NBR	O-Ring, Drain Plug – 70D	1
50	133576	ALE	Cover, Rear (See Tech Bulletin 118)	1
51	44834	NBR	O-Ring, Rear Cover – 70D	1
53	134848	ALE	Crankcase with Guide Pins, Studs (See Tech Bulletin 118, 128)	1
54	27488	S	Pin, Guide	2
55	44005	S	Stud, Manifold (M10 x 45) (See Tech Bulletin 128)	4
64	763507	CM	Pin, Crosshead (with Flats)	3
65	765258	SHS	Rod, Plunger (with Set Screws)	3
69	126592	STCP R	Washer, Oil Seal	3
70	43500	NBR	Seal, Oil, Crankcase	3
88	45675	S	Washer, Keyhole	3
89	45879	SS	Collar, Spacer	3
90	43552	CC	Plunger (M24 x 77)	3
95	89651	SS	Stud, Plunger Retainer (M6 x 70)	3
96	43235	PTFE	Back-up Ring, Plunger Retainer	3

ITEM	PN	MATL	DESCRIPTION	QTY
97	17399	NBR	O-Ring, Plunger Retainer – 80D	3
98	44041	SS	Gasket, Plunger Retainer	3
99	44031	SS	Retainer, Plunger (M6) (See Tech Bulletin 074)	3
100	765001	AL	Retainer, Seal	3
101	999490	D	Adapter	3
102	999492	NY	Tubing	3
103	999491	PLM	Manifold	1
104	34507	BB	Plug [1/8" NPT(M)]	1
105	33937	SS	Valve, Check [1/4" NPT(M)]	2
106	701437	SFTB	Seal, LPS with SS – Spring	3
113	34338	BB	Union [1/4" NPT(M)]	1
114	34347	STZP	Bracket	1
115	990776	STZP R	Screw, HHC (1/4"- 20 x 1/2")	2
116	999105	SS	Adapter [1/8" NPT(M) x 1/4" NPT(F)]	1
120	49286	SSNP	Case, Seal	3
121	14762	NBR	O-Ring, Seal Case – 70D	3
126	48389	D	Adapter, Female	3
127	103692	STG	V-Packing	6
128	45074	SS	Adapter, Male	3
162	43248	PTFE	Back-up Ring, Valve Seat	6
163	43249	NBR	O-Ring, Seat – 80D	6
164	44037	SS	Seat	6
166	48793	SS	Valve	6
167	44039	SS	Spring, Valve	6
168	44564	PVDF	Retainer, Spring	6
172	17617	NBR	O-Ring, Valve Plug – 90D	6
174	49293	SS	Plug, Valve (See Tech Bulletin 074)	6
185	49188	SS	Head, Manifold, Flushed (1/8" Flushed Port)	1
192	15847	S	Lockwasher (M10)	4
194	81258	S	Nut, Hex (M10)	4
250	855047	NY	Protector, Shaft with Two SS – Screws (See Tech Bulletin 128)	1
260	30613	STZP	<i>Mount, Rail, Assembly</i>	1
300	703135	NBR*	<i>Kit, Seal (Includes: 97, 106, 121, 127)</i>	1
310	34387	NBR	<i>Kit, Valve Preassembled (Includes: 162, 163, 164, 166, 167, 168, 172)</i>	2
—	6107	—	<i>Oil, Bottle (21 oz.) ISO 68 Hydraulic</i>	2

Italics are optional items.

[] Date of latest production change. R components comply with RoHS Directive.

*Review individual parts in each kit for material code identification. For additional technical information see www.catpumps.com/literature/tech-bulletins.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic AL=Aluminum ALE=Aluminum Epoxy BB=Brass CC=Ceramic CM=Chrome-molyD=Acetal

FBR=Fiber FCM=Forged Chrome-moly NBR=Medium Nitrile (Buna-N) NY=Nylon PC=Poly Carbonite PE=Polyethylene PLM=Unspecified Poly

PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SHS=304SS/High Strength SS=316SS

SFTB=Special Blend PTFE Black STG=Special Blend PTFE White STCP=Steel/Chrome Plated

SSNP=316SS/Nickel Plated STL=Steel STZP=Steel/Zinc Plated

TNM=Special High Strength

⚠ 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