

MODEL 3520CM.CO2

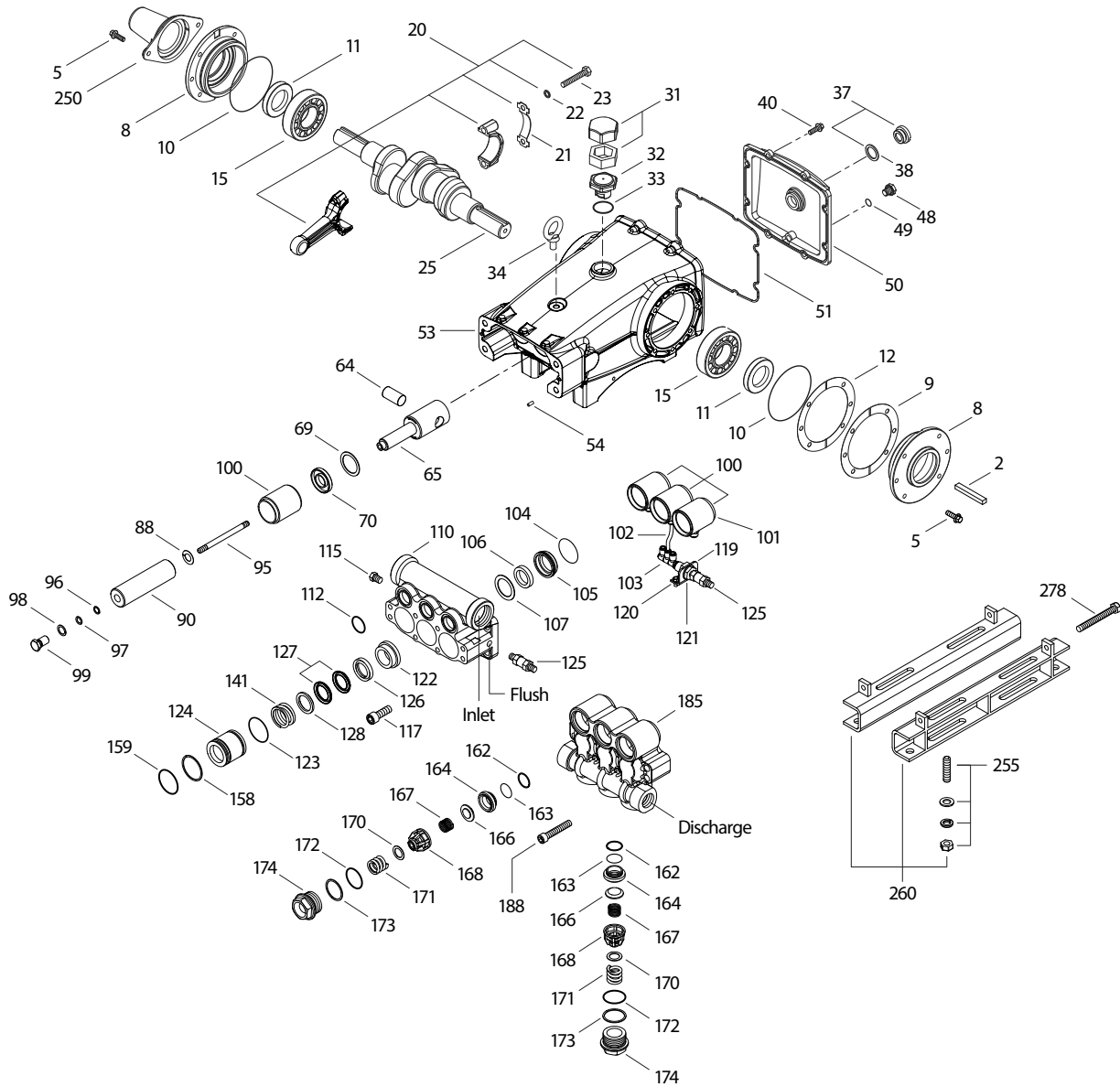
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	11.4 gpm	43.1 lpm
Pressure Range	400–2000 psi	27.5–138 bar
Pump RPM*	450 rpm	450 rpm
Inlet Pressure Range**	300–400 psi	21–27.5 bar
Min. Liquid Temperature**	-20° F	-29° C
Bore	1.260"	32 mm
Stroke	1.890"	48 mm
Crankcase Capacity	4.2 qts	4 l

SPECIFICATIONS	U.S. Measure	Metric Measure
Inlet Ports (2)	1½" NPT(F)	1½" NPT(F)
Flush Ports (2)	¼" NPT(F)	¼" NPT(F)
Discharge Ports (2)	1" NPT(F)	1" NPT(F)
Shaft Diameter	1.378"	35 mm
Pulley Mounting	Either Side	Either Side
Weight	139 lbs	63 kg
Dimensions	23.86 x 18.11 x 9.72"	606 x 460 x 247 mm

* 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
2	34021	STL	Key (M10 x 8 x 70)	1
5	96049	S	Screw, HH Sems (M10 x 25) (See Tech Bulletin 074)	8
8	134604	ALE	Cover, Bearing	2
9	815279	FBR	Shim, Split 2-Piece	0–2
10	12398	NBR	O-Ring, Cover, Bearing	2
11	13296	NBR	Seal, Oil, Crankshaft	2
12	855049	S	Shim, Split 2-Piece	0–2
15	29326	STL	Bearing, Roller	2
20	761467	TNM	Assembly, Connecting Rod (Includes: 21, 22, 23) (See Tech Bulletin 074)	3
21	126749	STCP R	Washer, Locking (M10)	3
22	126593	STCP R	Shim, Washer (M10.5 x 1.5)	6
23	122045	STZP	Screw, HH (M10 x 55)	6
25	29325	FCM	Crankshaft, Dual-End (M48)	1
31	828710	PE	Protector, Oil Cap with Polyurethane Gasket	1
32	43211	ABS	Cap, Oil Filler	1
33	14177	NBR	O-Ring, Oil Filler Cap	1
34	126743	STCP R	Bolt, Eye (M12x1.75) (For Lifting Pump Only)	1
37	92241	PC	Gauge, Oil, Bubble with Gasket (See Tech Bulletin 074)	1
38	44428	NBR	Gasket, Flat, Oil Gauge	1
40	125753	S	Screw, HH Sems (M8 x 25) (See Tech Bulletin 074)	8
48	25625	STCP	Plug, Drain (1/4" x 19 BSP)	1
49	23170	NBR	O-Ring, Drain Plug	1
50	45936	ALE	Cover, Rear	1
51	16612	NBR	O-Ring, Cover, Rear	1
53	134784	ALE	Crankcase Assembly (Includes: 34, 54)	1
54	27488	S	Pin, Guide	2
64	763864	CM	Pin, Crosshead (with Flats)	3
65	765116	SSZZ	Rod, Plunger	3
69	126587	STCP R	Washer, Oil Seal	3
70	100488	NBR S	Seal, Oil, Crankcase	3
88	45676	S	Washer, Keyhole	3
90	43957	CC	Plunger (M32 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	3
98	44085	SS	Gasket, Plunger Retainer	3
99	44084	SS	Retainer, Plunger (M10) (See Tech Bulletin 074)	3
100	999324	AL	Retainer, Seal	3
101	999490	D	Adapter, 1/4"	3
102	999492	NY	Tubing, 1/4"	3
103	999491	PLM	Manifold (3" x 1/4" NPT[M])	1
104	43875	NBR	O-Ring, Inlet Adapter	3

ITEM	PN	MATL	DESCRIPTION	QTY
105	49741	BB	Adapter, Inlet	3
106	702285	TFDA	Seal, Low-Pressure with SS–Spring	3
107	43962	S	Washer	3
110	670305	BBCP R	Manifold, Inlet, Flushed	1
112	11379	NBR	O-Ring, Inlet Manifold	3
115	22177	BBCP	Plug, HH (1/4" NPT[M])	1
117	44585	S	Screw, HSH (M14 x 40) (See Tech Bulletin 074)	4
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	49744	BB	Spacer	3
123	12391	NBR	O-Ring, V-Packing Cylinder	3
124	49742	BB	Cylinder, V-Packing	3
125	33937	SS	Valve, Check (1/4" NPT[M])	2
126	43963	BB	Adapter, Female	3
127	44608	STG	V-Packing	6
128	43965	BB	Adapter, Male	3
141	49743	SS	Spring, Large Coil	3
158	48362	D	Backup Ring, V-Packing Cylinder	3
159	48860	NBR	O-Ring, V-Packing Cylinder	3
162	48363	D	Backup Ring, Seat	6
163	26142	NBR	O-Ring, Seat	6
164	44727	S	Seat	6
166	43932	S	Valve	6
167	44109	SS	Spring	6
168	44728	PVDF	Retainer, Spring	6
170	44729	SS	Washer, Spring	6
171	44644	SS	Spring, Coil	6
172	89827	NBR	O-Ring, Valve Plug	6
173	48364	D	Backup Ring, Valve Plug	6
174	46444	FBB	Plug, Valve (See Tech Bulletin 074)	6
185	49465	BBCP R	Manifold, Discharge	1
188	89981	S	Screw, HSH (M12 x 70) (See Tech Bulletin 074)	8
250	855042	NY	Protector, Shaft	1
255	34018	STZP	Mount, Direct	1
260	92674	STZP R	Mount, Rail Assembly (Includes: 34018)	1
278	80540	STZP	Screw, HH (M12x100) (Rail Adjusting Screw)	2
290	6124	—	Gasket, Liquid (3 oz)	1
299	818473.CO2	—	Head, Complete	1
300	76114	NBR *	Kit, Seal (Includes: 97, 106, 112, 123, 127, 158, 159)	1
310	34235	NBR	Kit, Valve Preassembled (Includes: 162–164, 166–168, 170, 172, 173)	2
—	6100	—	Oil, Case (12–21 oz Bottles) (Fill to Specified Crankcase Capacity Prior to Start-up)	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 ALE=Aluminum Epoxy BB=Brass BBCP=Brass/Chrome Plated CC=Ceramic

CM=ChromeMoly D=Acetal FBB=Forged Brass FBR=Fiber FCM=Forged Chrome-Moly NBR=Medium Nitrile (Buna-N) NBR S=Buna,Silicone Free

NY=Nylon PC=Poly Carbonate PE=Polyethylene PLM=Unspecified Poly PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride

S=304SS SS=316SS SSZZ=316SS/Zamak STCP=Steel/Chrome Plated STG=Special Blend PTFE White STL=Steel STZP=Steel/Zinc Plated

TFDA=PTFE FDA TNM=Special High Strength

⚠ 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