

MODEL 1540ECM.CO₂



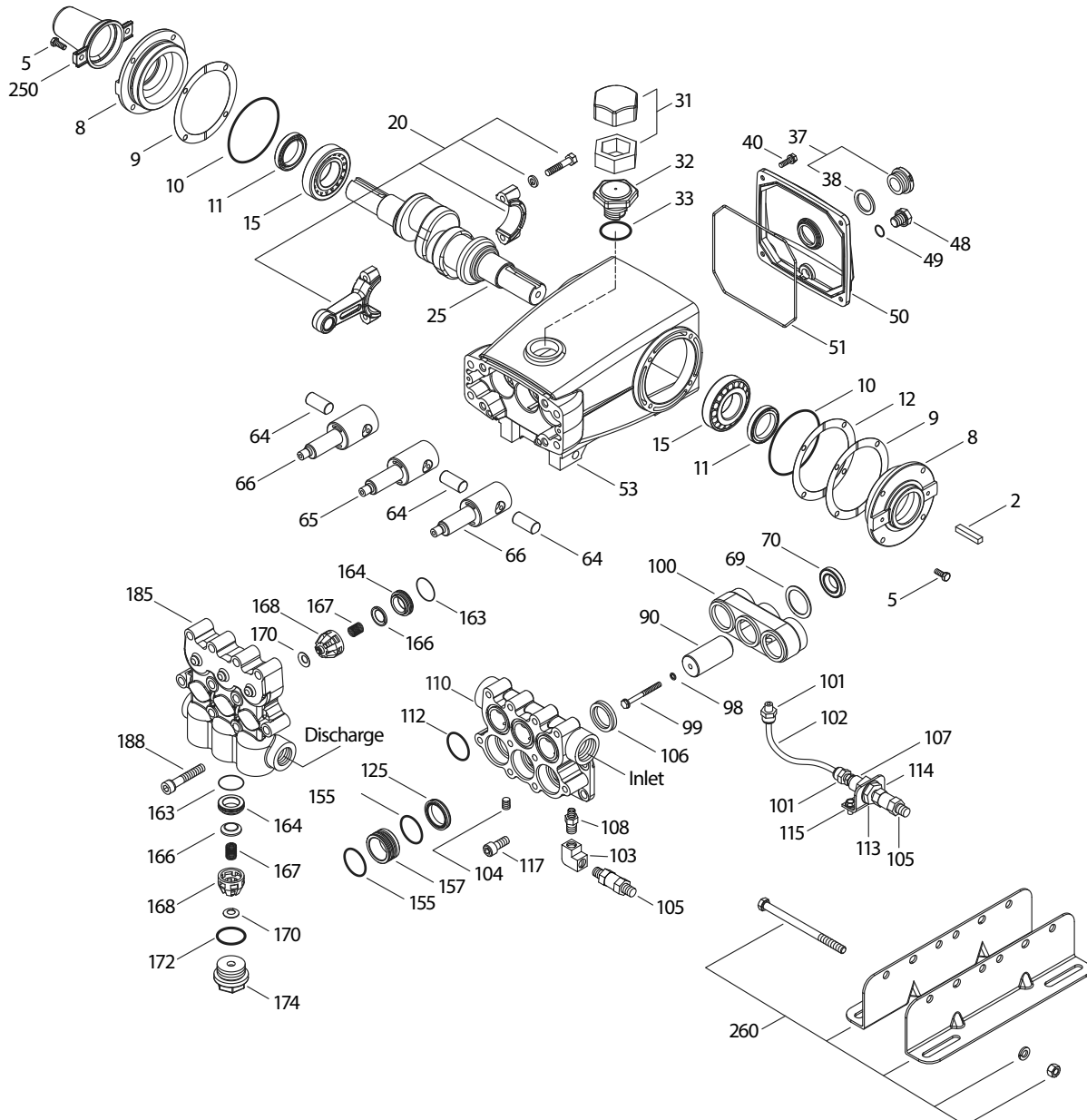
SPECIFICATIONS	U.S. Measure	Metric Measure
Flow	7.0 gpm	26 lpm
Pressure Range	400 to 1200 psi	27.5 to 83 bar
Pump RPM**	450	450
*Inlet Pressure Range	300 to 400 psi	21 to 27.5 bar
Min. Liquid Temperature	-20° F	-29° C
Bore	1.181"	30 mm
Stroke	1.181"	30 mm
Crankcase Capacity	42 oz.	1.26 l

SPECIFICATIONS	U.S. Measure	Metric Measure
Inlet Ports (2)	1" NPT(F)	1" NPT(F)
Flush Ports (2)	1/8" NPT(F)	1/8" NPT(F)
Discharge Ports (2)	3/4" NPT(F)	3/4" NPT(F)
Shaft Diameter	1.181"	30 mm
Pulley Mounting	Either Side	Either Side
Weight	42.6 lbs.	21 kg
Dimensions	14.57 x 13.0 x 7.2"	370 x 330 x 183 mm

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

** Pump minimum is 100 RPM.

EXPLODED VIEW



PARTS LIST

ITEM	PN	MATL	DESCRIPTION	QTY
2	990036	STL	Key (M8 x 7 x 40) use w/30059 and 990012 "H" hubs	1
	30067	STL	Key (M8 x 7.5 x 25) use w/30059 "H" hub	1
5	92538	S	Screw, HHC Sems (M6x16)	8
8	49535	ALE	Covering, Bearing (See Tech Bulletin 118)	2
9	815281	FBR	Shim, Split 2-Piece	2
10	11340	NBR	O-Ring, Bearing Cover - 70D	2
11	43495	NBR	Seal, Oil, Crankshaft	2
12	814800	S	Shim, Split 2-Piece	2
15	39060	STL	Bearing, Roller	2
20	768600	TNM	Assembly, Connecting Rod	3
25	43494	FCM	Crankshaft, Dual End (M30)	1
31	828710	PE	Protector, Oil Cap w/Polyurethane Gasket	1
32	43211	ABS	Cap, Oil Filler	1
33	14177	NBR	O-Ring, Oil Filler Cap - 70D	1
37	92241	—	Gauge, Oil, Bubble w/Gasket - 80D	1
38	44428	NBR	Gasket, Flat, Oil Gauge - 80D	1
40	92542	S	Screw, HHC Sems (M6x20)	4
48	25625	STCP	Plug, Drain (1/4" x 19BSP)	1
49	23170	NBR	O-Ring, Drain Plug - 70D	1
50	49276	ALE	Cover, Rear (See Tech Bulletin 118)	1
51	44834	NBR	O-Ring, Rear Cover - 70D	1
53	49273	ALE	Crankcase (Includes guide pin) (See Tech Bulletin 118)	1
64	763507	CM	Pin, Crosshead	3
65	768933	SHS	Rod, Plunger (center)	1
66	768931	SHS	Rod, Plunger (outside)	2
69	126596	STCP R	Washer, Oil Seal	3
70	43500	NBR	Seal, Oil, Crankcase	3
90	48938	CC	Plunger (M30 x 65)	3
98	46730	NBR	Washer, Seal - 90D	3
99	48201	SS	Retainer, Plunger	3
100	76836	AL	Retainer, Vented	1
101	999490	D	Adapter, 1/4"	2

ITEM	PN	MATL	DESCRIPTION	QTY
102	999492	NY	Tubing, 1/4"	1
103	999747	BB	Elbow [1/4" NPT(F)]	1
104	34507	BB	Plug, [1/8" NPT(M)]	1
105	33937	SS	Valve, Check [1/4" NPT(M)]	2
106	702939	ST4	Seal, LPS, w/NIH-Spg	3
107	34633	BB	Bushing [1/4" NPT(F) x 1/8" NPT(M)]	1
108	34227	BB	Nipple, [1/4" NPT(M) x 1/8" NPT(M)]	1
110	49853	FBB	Manifold, Inlet, Flushed	1
112	123903	NBR	O-Ring, Inlet Manifold - 90D	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
117	49044	S	Screw, HSH (M10x25)	4
125	49619	STG	Seal, Assy 2-Piece w/SS-support	3
155	123903	NBR	O-Ring, HPS Spacer	6
157	48946	BB	Spacer, HPS	3
163	26143	NBR	O-Ring, Seat - 80D	6
164	48951	S	Seat	6
166	48686	SS	Valve	6
167	48687	SS	Spring	6
168	48994	PVDF	Retainer, Spring	6
170	123764	S	Washer, Spring Retainer	6
172	17629	NBR	O-Ring, Valve Plug - 80D	3
174	48952	FBB	Plug, Valve	3
185	48948	FBB	Manifold, Discharge	1
188	87952	S	Screw, HSH (M10x55)	10
250	30764	NY	Protector, Shaft	1
260	30613	STZP R	Mount, Rail Assembly	1
300	761770	NBR*	Kit, Seal (Incls: 98, 106, 112, 125, 155)	1
310	31775	NBR	Kit, Valve Preassembled (Incls: 163, 164, 166, 167, 168, 170, 172)	2
—	6107	—	Oil, Bottle (21 oz.) ISO-68 Hydraulic (Fill to specified crankcase capacity prior to start-up)	2

Italics are optional items. [] Date of latest production change.

R Components comply with RoHS Directive. * Review material codes for individual items (STG generally may be used as alternate).

See Tech Bulletins 002, 003, 024, 035, 036, 043, 053, 074, 083, and 118 for additional information.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic AL=Aluminum ALE=Aluminum Epoxy BB=Brass CC=Ceramic CM=Chrome-moly D=Acetal FBB=Forged Brass FBR=Fiber FCM=Forged Chrome-moly NBR=Medium Nitrile (Buna-N) NY=Nylon PE=Polyethylene PLM=Unspecified Poly PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SHS=304SS/High Strength SS=316SS STCP=Steel/Chrome Plated ST4=Special PTFE 4 STG=Special Blend PTFE White 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/cautions-warnings or can be requested directly from Cat Pumps.

WARRANTY

View the Limited Warranty on-line at www.catpumps.com/warranty.



CAT PUMPS

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