



Technical specifications and instructions



7 Frame Plunger pump

Models 530, 550

Specifications (*)

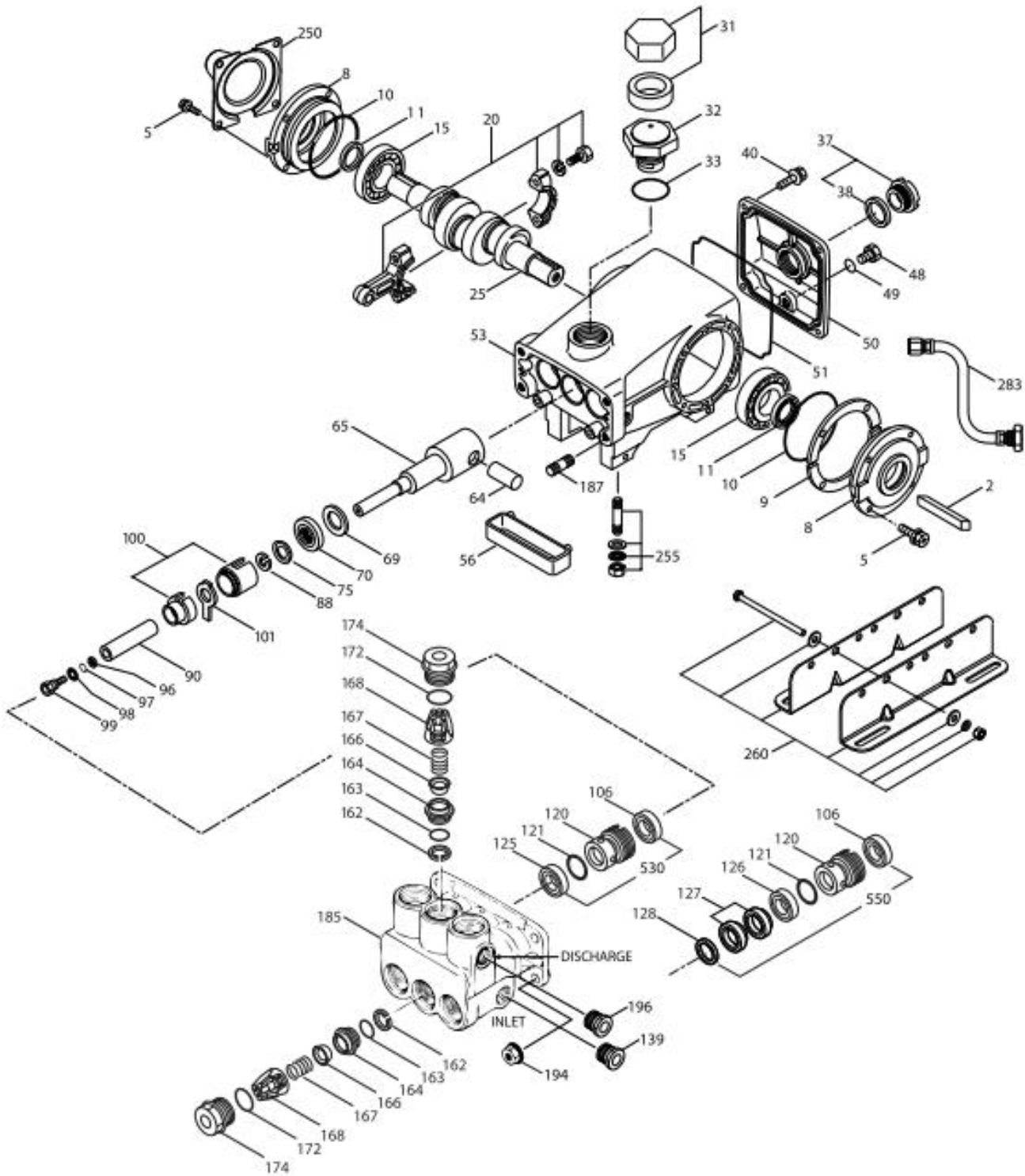
	Model 530	Model 550
Flow	25 l/min	19,5 l/min
Pressure range	7 to 150 bar	7 to 210 bar
RPM	1450 RPM	1420 RPM
Inlet pressure range	Flooded to 4 bar	Flooded to 4 bar
Bore	18 mm	16 mm
Stroke	24 mm	24 mm

Common specifications

Crankcase capacity	0,75 L
Maximum liquid temperature	71° C
Inlet ports (2)	1/2" NPTF
Discharge ports (2)	3/8" NPTF
Shaft diameter	24 mm
Weight	11,5 kg
Dimensions	348 x 244 x 151 mm

(*) Abnormalities permitted only after consultation and written confirmation from Cat Pumps.

Exploded View



Models
530, 550
June 2017

Parts list

Item	Num. 530	Mat.	Num. 550	Mat.	Description	Qty
2	30067	STL	30067	STL	Key (M8x7,5x25)	1
5	125824	STCP R	125824	STCP R	Screw, HHC, sems (M6x16)	8
8	43223	AL	43223	AL	Cover, bearing	2
9	815280	FBR	815280	FBR	Shim, split, 2-pc	1
10	12393	NBR	12393	NBR	O-ring, bearing cover	2
11	43222	NBR	43222	NBR	Seal, oil, crankshaft	2
15	43221	STL	43221	STL	Bearing, roller	2
20	48863	TNM	48863	TNM	Rod, connecting assy {06/02}	3
25	43220	FCM	43220	FCM	Crankshaft, dual end (M24)	1
31	828710	PE	828710	PE	Protector, oil cap w/foam gasket	1
32	43211	ABS	43211	ABS	Cap, oil filler	1
33	14177	NBR	14177	NBR	O-ring, filler cap – 70D	1
37	92241	-	92241	-	Gauge, oil, bubble w/gasket – 80D	1
38	44428	NBR	44428	NBR	Gasket, flat, oil gauge – 80D	1
40	125824	STCP R	125824	STCP R	Screw, HHC sems (M6x16) (see TB 106)	4
48	25625	STCP	25625	STCP	Plug, drain (1/4" x 19 BSP)	1
49	23170	NBR	23170	NBR	O-ring, drain plug – 70D	1
50	127701	AL	127701	AL	Cover, rear (M6x16) (see TB 106)	1
51	14047	NBR	14047	NBR	O-ring, rear cover – 70D (M6x16) (see TB 106)	1
53	127698	AL	127698	AL	Crankcase (M10) (M6x16) (see TB 106)	1
56	43240	POP	43240	POP	Pan, oil	1
64	43237	CM	43237	CM	Pin, crosshead	3
65	43229	ZZCP	43229	ZZCP	Rod, plunger	3
69	126589	STCP R	126589	STCP R	Washer, oil seal	3
70	43228	NBR	43228	NBR	Seal, oil, crankcase	3
75	43328	S	43328	S	Slinger, barrier	3
88	45697	S	45697	S	Washer, keyhole (M18xM10)	3
90	43232	CC	43311	CC	Plunger (M18x77 and M16x77)	3
96	43235	PTFE	43235	PTFE	Back-up-ring, plunger retainer	3
97	17399	NBR	17399	NBR	O-ring, plunger retainer – 80D	3
	14160	FPM	14160	FPM	O-ring, plunger retainer – 70D	3
98	45891	CU	45891	CU	Gasket, plunger retainer	3
99	104360	S	104360	S	Retainer, plunger w/stud (see TB 045)	3
100	45689	PVDF	45689	PVDF	Retainer, seal (2pc) (see TB 105)	3
101	43239	-	43313	-	Wick, long tab	3
106	43243	NBR	43316	NBR	Seal, LPS w/S-Spg	3
	44926	FPM	-	-	Seal, LPS w/SS-Spg	3
	-	-	106660	FPM	Seal, LPS w/SS-Spg	3
120	45683	BB	45684	BB	Case, seal	3
121	20285	NBR	20285	NBR	O-ring, seal case – 70D	3
	11693	FPM	11693	FPM	O-ring, seal case	3
125	43245	SNG	-	-	Seal, HPS w/S	3
	44925	FPM	-	-	Seal, HPS w/SS	3
126	-	-	43320	BB	Adapter, female	3
127	-	-	43319	SNG	V-packing	6
	-	-	46287	HT	V-packing	6
128	-	-	43318	BB	Adapter, male	3
139	22179	BBCP	22179	BBCP	Plug (1/2" NPTM)	1
162	43248	PTFE	43248	PTFE	Back-up-ring, seat	6
163	43249	NBR	43249	NBR	O-ring, seat – 80D	6
	44383	FPM	44383	FPM	O-ring, seat – 70D	6
164	43722	S	43722	S	Seat, Q.V.	6

166	43721	S	43721	S	Valve, Q.V.	6
167	43751	S	43751	S	Spring, Q.V.	6
168	44564	PVDF	44564	PVDF	Retainer, spring	6
172	17617	NBR	17617	NBR	O-ring, valve plug – 90D	6
	11691	<i>FPM</i>	11691	<i>FPM</i>	<i>O-ring, valve plug – 90D</i>	6
174	43851	BBCP	43851	BBCP	Plug, valve	6
185	45417	BBCP	45547	BBCP	Head, manifold (M10F)	1
187	46868	S	46868	S	Stud, manifold (M10x35)	4
194	126567	STCP R	126567	STCP R	Nut, flanged (M10)	4
196	43633	<i>BB</i>	43633	<i>BB</i>	<i>Plug, discharge (3/8" NPTM)</i>	1
250	43256	<i>STCP</i>	43256	<i>STCP</i>	<i>Protector, shaft</i>	1
255	30243	<i>STZP</i>	30243	<i>STZP</i>	<i>Kit, direct mounting</i>	1
260	30645	<i>STZP R</i>	30645	<i>STZP R</i>	<i>Rail, angle, assy A-U.S. (2.95")</i>	1
	30611	<i>STZP R</i>	30611	<i>STZP R</i>	<i>Rail, angle, assy B-U.S. (2.09")</i>	1
265	30660	-	30660	-	<i>Kit, mounting (incl. 30645, 30206, 33000, 30067, 43256)</i>	1
269	30206	<i>F</i>	30206	<i>F</i>	<i>Pulley (10") (see TB 003)</i>	1
274	33000	<i>STL</i>	33000	<i>STL</i>	<i>Hub "H", M24 (keyway M8) (see TB 003)</i>	1
283	34334	-	34334	-	<i>Kit, oil drain</i>	1
299	812183	BBCP	812184	BBCP	<i>Head, complete w/NBR seals & O-rings</i>	1
300	30488	NBR	30610	NBR	<i>Kit, seal (incl. 97,101,106,121,125 or 127) standard</i>	1
	-	-	32936	FPM	<i>Kit, seal (incl. 97,101,106,121,127)</i>	1
	-	-	31610	HT	<i>Kit, seal 'Hi Temp' (incl. 97,101,106,121,127)</i>	1
310	30820	<i>NBR</i>	30820	<i>NBR</i>	<i>Kit, valve, Q.V. (incl. 162-164,166,167,168,172) stand.</i>	2
	31820	<i>NBR</i>	31820	<i>NBR</i>	<i>Kit, valve, F.V. (incl. 162-164,166,167,168,172)</i>	2
	31263	<i>FPM</i>	31263	<i>FPM</i>	<i>Kit, valve (incl. 162-164,166,167,168,172)</i>	2
350	30696	<i>STZP</i>	30696	<i>STZP</i>	<i>Plier, Reverse</i>	1
351	43257	<i>STZP</i>	43257	<i>STZP</i>	<i>Tool, seal case removal</i>	1
352	44050	<i>STZP</i>	44050	<i>STZP</i>	<i>Tool, oil gauge removal</i>	1

Bold print part numbers are unique to a particular pump model. Italics are optional items.

R Components comply with RoHS Directive. { } Date of latest production change.

See 'Tech Bulletins' 002, 003, 024, 027, 035, 036, 043, 045, 051, 053, 054, 074, 083, 105 and 106 for additional information.

Material codes: (not part or part number)

ABS	ABS plastic	FBR	Fiber	PVDF	Polyvinylidene fluoride
AL	Aluminium	FCM	Forged chrome-moly	S	304SS
BB	Brass	FPM	Fluorocarbon	SNG	Special blend (Buna)
BBCP	Brass/chrome plated	HT	High Temp (EPDM alternative)	STCP	Steel/chrome plated
CC	Ceramic	NBR	Medium nitrile (Buna-N)	STL	Steel
CM	Chrome-moly	PE	Polyethylene	STZP	Steel/zinc plated
CU	Copper	POP	Polypropylene	TNM	Special high Strength
F	Cast iron	PTFE	Pure polytetrafluorethylene	ZZCP	Chrome plated/steel zamac