



Technical specifications and instructions



3 Frame Plunger pump

Models

230, 240, 270



PIJTTENSEN

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Specifications (*)

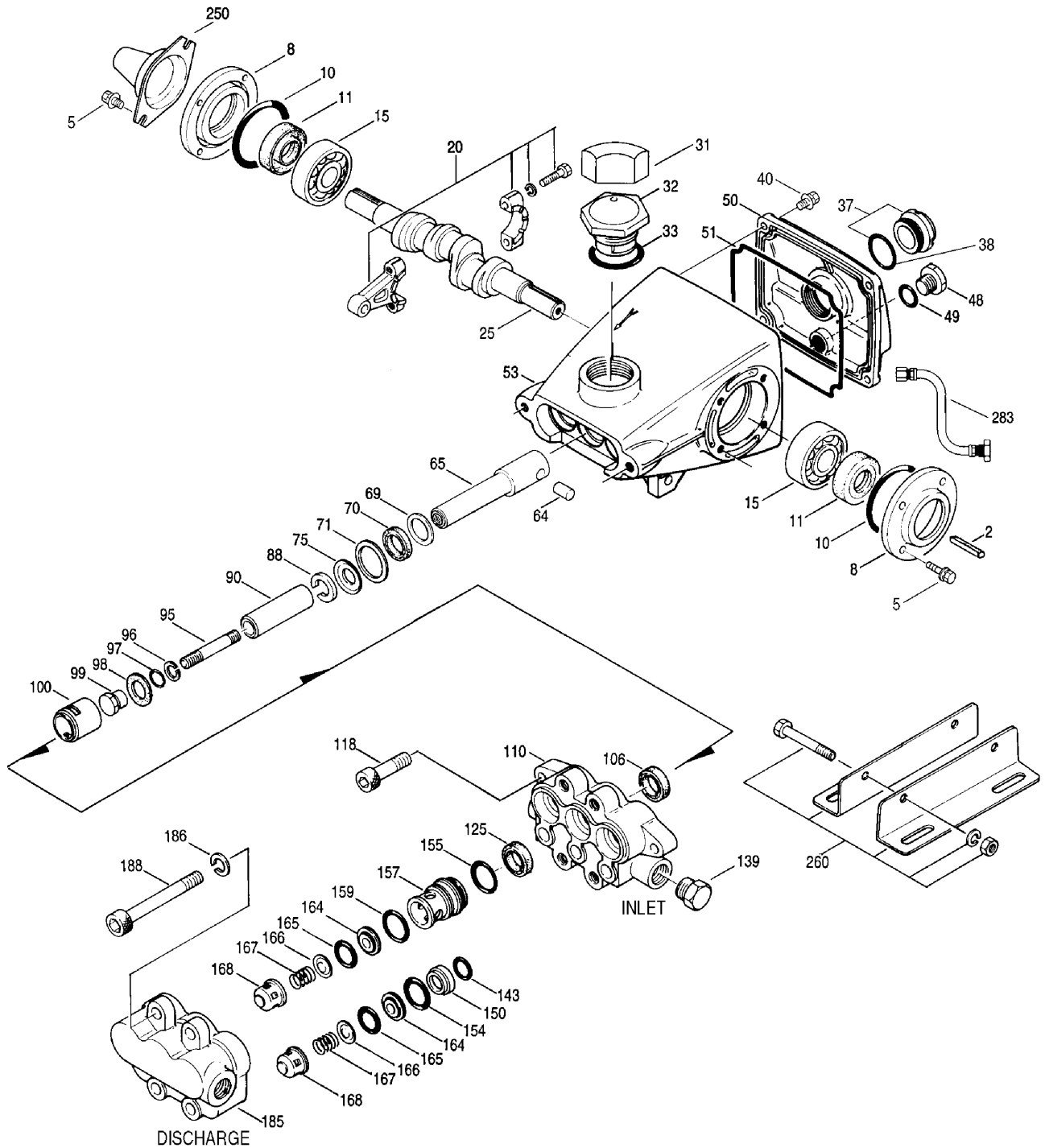
	Model 230 <i>Direct drive</i>	Model 240 <i>Direct drive</i>	Model 270
Flow	7,5 l/min	11,5 l/min	13,5 l/min
Pressure range	7 to 105 bar	7 to 105 bar	7 to 105 bar
RPM	1420 RPM	1420 RPM	1420 RPM
Inlet pressure range	Flooded to 4 bar	Flooded to 4 bar	Flooded to 4 bar
Stroke	7 mm	11 mm	13 mm

Common specifications

Bore	18 mm
Crankcase capacity	0,45 l
Maximum liquid temperature	71° C
Inlet ports (2)	1/2" NPTF
Discharge ports (2)	3/8" NPTF
Shaft diameter	16,5 mm
Weight	6,3 kg
Dimensions	259,5 x 223 x 134,5 mm

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

Exploded View



Parts list

Item	Num. 230 240 270	Mat.	Description	Qty
2	30047	STL	Key (M5x5x24))	1
5	92519	STZP	Screw (M6x16)	8
	125824	STCP R	Screw (M6x16)	8
8	27950	AL	Cover, bearing	2
10	26536	NBR	O-ring, oil seal case – 70D	2
11	24159	NBR	Seal, oil	2
15	14487	STL R	Bearing, ball	2
20	48867	TNM	Rod, connecting assembly {09/02}	3
25	46946	FCM	Crankshaft, dual end - (230)	1
	46951	FCM	Crankshaft, dual end - (240)	1
	108062	FCM	Crankshaft, dual end - (270)	1
31	828710	-	Protector, oil cap w/foam 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	92520	STZP	Screw (M6x20)	6
	126541	STCP R	Screw (M6x20)	6
48	25625	STCP	Plug, drain (1/4" x 19 BSP)	1
49	23170	NBR	O-ring, drain plug – 70D	1
50	48772	AL	Cover, rear {07/08}	1
51	48773	NBR	O-ring, rear cover {07/08}	1
53	128354	AL	Crankcase {07/08}	1
64	16948	CM	Pin, crosshead	3
65	45114	SSZZ	Rod, plunger	3
69	126259	STCP R	Washer, oil seal	3
70	25301	NBR	Seal, oil, crankcase – 80D	3
71	126189	STCP R	Washer, oil seal	3
75	43900	S	Slinger, barrier	3
88	45697	S	Washer, keyhole (M18)	3
90	43901	CC	Plunger (M18x43)	3
95	126550	STCP R	Stud, plunger retainer (M6x43)	3
96	43235	PTFE	Back-up-ring, plunger retainer	3
97	17399	NBR	O-ring, plunger retainer – 80D	3
	14160	FPM	O-ring, plunger retainer – 70D	3
	# 46204	EPDM	O-ring, plunger retainer – 70D	3
98	45891	CU	Gasket, plunger retainer (M12,5)	3
99	46504	S	Retainer, plunger (M6)	3
100	28597	PVDF	Retainer, seal	3
106	43243	NBR	Seal, LPS w/S-Spg	3
	44926	FPM	Seal, LPS w/SS-Spg	3
	#46651	EPDM	Seal, LPS w/SS-Spg	3
110	43902	BB	Manifold, inlet	1
118	126520	STCP R	Screw (M10x35)	2
125	43245	SNG	Seal, HPS w/S	3
	44925	FPM	Seal, HPS w/SS	3
	46652	HT*	Seal, HPS 'Hi-temp', 2-pc w/S-support	3
139	22179	BBCP	Plug, inlet (1/2" NPT)	1
143	17547	NBR	O-ring, inlet valve adapter, rear – 85D	3
	11685	FPM	O-ring, inlet valve adapter, rear – 85D	3

	#46648	EPDM	O-ring, inlet valve adapter, rear – 85D	3
150	43904	BB	Adapter, inlet valve	3
154	43893	NBR	O-ring, inlet valve adapter, front – 80D	3
	44937	FPM	O-ring, inlet valve adapter, front	3
	#46649	EPDM	O-ring, inlet valve adapter, front – 80D	3
155	26089	NBR	O-ring, discharge valve adapter, rear – 80D	3
	11377	FPM	O-ring, discharge valve adapter, rear – 80D	3
	#46647	EPDM	O-ring, discharge valve adapter, rear – 80D	3
157	43905	BB	Adapter, discharge valve	3
159	26089	NBR	O-ring, discharge valve adapter, front – 80D	3
	11377	FPM	O-ring, discharge valve adapter, front – 80D	3
	#46647	EPDM	O-ring, discharge valve adapter, front – 80D	3
164	44002	S	Seat	6
165	44001	NBR	O-ring, seat – 80D	6
	44928	FPM	O-ring, seat – 80D	6
	#46650	EPDM	O-ring, seat – 80D	6
166	43723	S	Valve	6
167	43750	S	Spring	6
168	43907	S	Retainer, spring	6
185	43903	BB	Manifold, discharge	1
186	12503	STZP	Lockwasher (M10)	4
	126231	STCP R	Lockwasher (M10)	4
188	87933	STZP	Screw (M1x55)	4
	126515	STCP R	Screw (M1x55)	4
250	25130	STCP	Protector, shaft	1
260	30612	STZP	Mount, rail, assy	1
265	30651	-	Kit, mounting (incl. 30612, 30032, 30047, 25130)	1
270	30246	STL	Assy pulley (incl. 30032, 30047)	1
275	30942	STL	Assy, hub & key (belt drive only)	1
277	34121	AL	Bell housing assy (56C-145FR, 2.0 HP)	1
	34126	AL	Bell housing assy (182TC-184TC, 3.0 HP)	1
278	8215	AL	Flexible coupling assy (M16,5 to 5/8")	1
	8225	AL	Flexible coupling assy (M16,5 to 1-1/8")	1
283	34334	-	Kit, oil drain	1
298	34961	STZP	Clutch assy, single groove, 16,5mm, 12VDC	1
	34964	STZP	Clutch assy, dual groove 16,5mm, 12VDC	1
299	914611	BB	Head, complete	1
300	30914	NBR	Kit, seal (incl. 97,106,125,143,154,155,159,165)	1
	33609	FPM	Kit, seal (incl. 97,106,125,143,154,155,159,165)	1
	#33914	EPDM*	Kit, seal (incl. 97,106,125,143,154,155,159,165)	1
	33915	HT	Kit, seal (incl. 97,106,125,143,154,155,159,165)Hi-temp	1
310	30915	NBR	Kit valve (incl. 143,154,159,164,165,166,167,168)	1
	31214	FPM	Kit valve (incl. 143,154,159,164,165,166,167,168)	1
	#31215	EPDM	Kit valve (incl. 143,154,159,164,165,166,167,168)	1
350	30696	STZP	Plier, Reverse	1

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

Silicone oil/grease required. R Components comply with RoHS Directive.

{ } Date of latest production change. * Review individual parts in each kit for material code identification.

See 'Tech Bulletins' 002, 003, 024, 035, 036, 043, 067, 073, 074, 077 and 083 for additional information.

Material codes: (not part or part number)

ABS	ABS plastic	EPDM	Ethylene propylene diene monomer	S	304SS
AL	Aluminium	FCM	Forged chrome-moly	SNG	Special blend (Buna)
BB	Brass	FPM	Fluorocarbon	SSZZ	316SS/zamac
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	PTFE	Pure polytetrafluorethylene	STZP	Steel/zinc plated
CU	Copper	PVDF	Polyvinylidene fluoride	TNM	Special high strength

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The Pumps with Nine Lives

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