

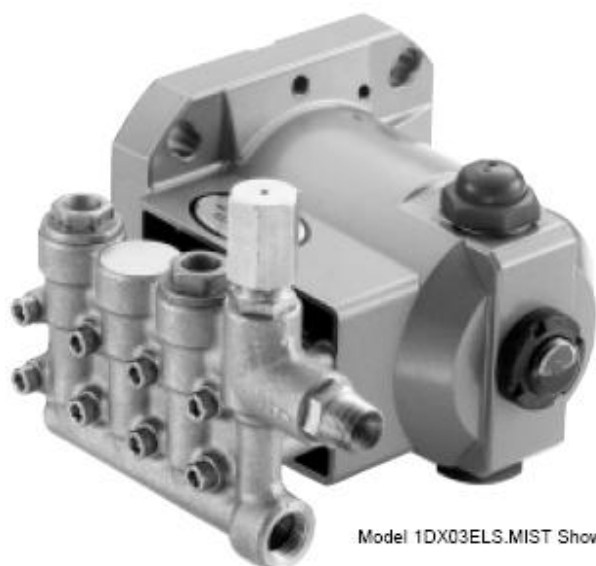


PIJTTERSEN

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Technical specifications and instructions



Model 1DX03ELS.MIST Shown

Misting Pump Direct-drive

Models

1DX03ELS.MIST

1DX015ELS.MIST

Specifications (*)

	1DX03ELS.MIST	1DX015ELS.MIST
Flow	1 l/min	0.5 l/min
Maximum discharge pressure	7 to 100 bar	7 to 100 bar
Stroke (single plunger)	2.0 mm	2.0 mm

Common Specifications

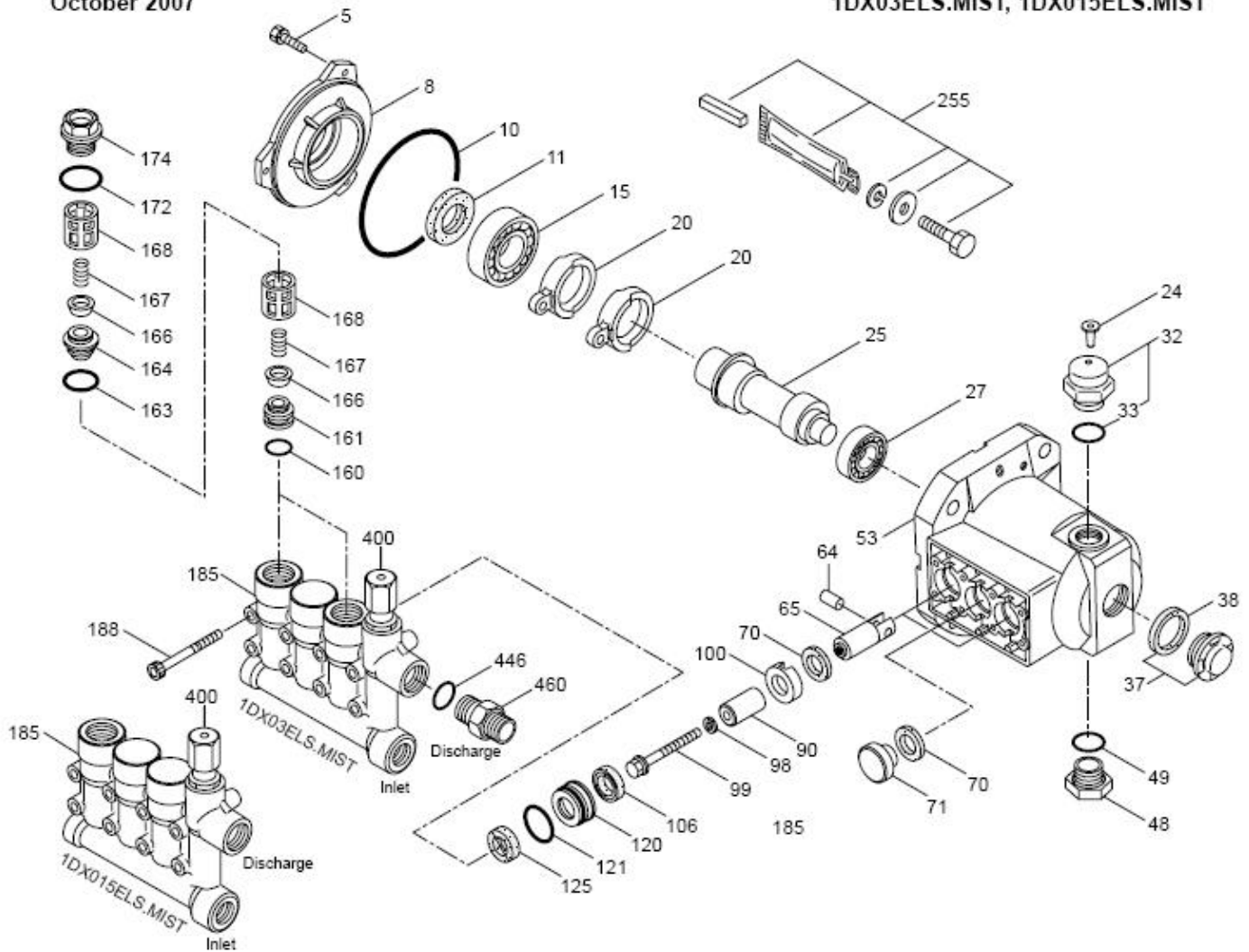
Maximum RPM	1450 RPM
Inlet pressure range	flooded to 4 bar
Bore	16 mm
Max. liquid temperature	60°C
Crankcase capacity	0,25 L
Inlet port	3/8" NPTF
Discharge port	3/8" NPTF
Shaft diameter	15.8 mm hollow
Weight (pump only)	4,9 kg
Dimensions (pump only)	203 x 197 x 160 mm

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

Exploded View

October 2007

1DX03ELS.MIST, 1DX015ELS.MIST



February 2012

Parts list

Item	Num.	Mat.	Description	Qty
5	547161	STCP	Screw, HH (M6x14)	3
	549360	STCP R	Screw, HH (M6x14)	3
8	547153	AL	Cover, bearing	1
10	14041	NBR	O-ring, bearing cover – 70D	1
11	55337	NBR	Seal, oil – 70D	1
15	14488	STL	Bearing, ball	1
20	547048	TNM	Rod, Connecting	2/1
24	549608	LDPE	Plug, oil cap (remove before startup)	1
25	548879	CM	Crankshaft, 1725 RPM, 5/8", 2.0 mm	1
27	13832	STL	Bearing, ball	1
32	547961	RTP	Cap, oil filler w/O-ring	1
33	14179	NBR	O-ring, oil filler cap – 70D	1
37	92241	-	Gauge, bubble oil w/gasket – 80D	1
38	44428	NBR	Gasket, flat flex., oil gauge – 80D	1
48	44842	NY	Plug, drain	1
49	14179	NBR	O-ring, drain plug – 70D	1
53	542407	AL	Crankcase	1
64	46229	CM	Pin, crosshead	2/1
65	542402	BBCP	Rod, plunger	2/1
70	47215	NBR	Seal, oil – 70D	3
71	548331	BB	Retainer, oil seal	1/2
90	542403	CC	Plunger (M16x27)	2/1
98	46730	NBR	Washer, seal – 90D	2/1
99	542405	S	Retainer, plunger (M6 x 35)	2/1
100	46233	NY	Retainer, seal	2/1
106	48222	NBR	Seal, LPS w/S-Spg – 85D	2/1
120	547357	BB	Case, seal	2/1
121	13976	NBR	O-ring, seal case – 70D	2/1
125	46240	NBR	Seal, HPS w/S	2/1
160	13965	NBR	O-ring, inlet valve seat – 70D	2/1
161	545177	S	Seat, inlet	2/1
163	19285	NBR	O-ring, seat – 70D	2/1
164	545178	S	Seat, discharge	2/1
166	46764	S	Valve	4/2
167	46865	S	Spring	4/2
168	543988	PVDF	Retainer, spring	4/2
172	142807	NBR	O-ring, plug – 70D	2/1
174	46759	BB	Plug, valve (M20 x 1.5)	2/1
185	49524	BB	Head, manifold w/Modular Reg. Body (03ELS)	1
	549002	BB	Head, Manifold w/Modular Reg. Body (015ELS)	1
188	542406	STZP	Screw, HSH (M6x60)	8
	549357	STCP R	Screw, HSH (M6x60)	8
255	30516	STZP	Assy, bolt mount	1
	126543	STCP R	Screw, HH (3/8" – 16UNC x 1-3/8")	4
	30980	STZP R	Washer, flat (3/8")	4
	30921	STZP R	Lockwasher (3/8")	4
	34050	STL	Key (3/16 x 3/16 x 27HD)	1
283	990394	-	Kit, oil drain (not shown)	1
300	76054	NBR	Kit, seal (incl. 98,106,121,125) (03ELS)	1
	76053	NBR	Kit, seal (incl. 98,106,121,125) (015ELS)	1
310	76058	NBR	Kit, valve (incl. 160,161,163,164,166,167,168,172) (03ELS)	1
	76057	NBR	Kit, valve (incl. 160,161,163,164,166,167,168,172) (015ELS)	1
400	-	-	Regulator, modular (see indiv. Parts)	1
446	13969	NBR	O-ring, discharge fitting – 70D	1
460	107681	BB	Fitting, discharge (3/8" NPTM)	1

Italics are optional items. R Components comply with RoHS directive.
See 'Tech Bulletins' 002, 024, 036, 043, 055, 074 and 083 for additional information.

Material codes: (not part or part number)

AL	Aluminum	LDPE	Low density polyethylene	S	304 stainless steel
BB	Brass	NBR	Medium nitrile (Buna-N)	STCP	Steel / chrome plated
BBCP	Brass / chrome plated	NY	Nylon	STL	Steel
CC	Ceramic	PVDF	Polyvinylidene fluoride	STZP	Steel / zinc plated
CM	Chrome-moly	RTP	Reinforced composite	TNM	Special high strength

Integral regulator

Specifications

Flow	1.14 l/min
Pressure range	7 to 85 bar
Discharge port	3/8" NPTM

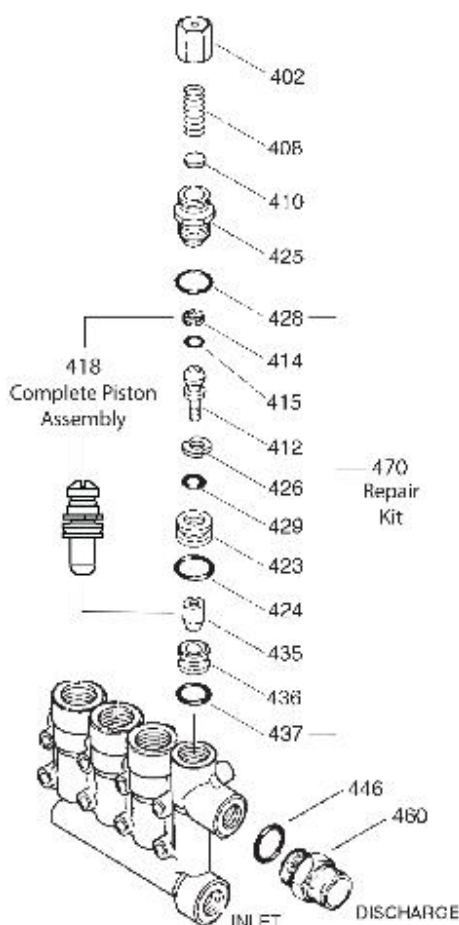
Parts list

Item	Num.	Mat.	Description	Qty
402	46570	BB	Cap, adjusting	1
408	549924	STCP R	Spring, pressure	1
410	549352	STCP R	Retainer, spring	1
412	46251	BB	Stem, piston	1
414	28338	PTFE	Back-up-ring, piston stem	1
415	22056	NBR	O-ring, piston stem – 70D	1
418	-	BB	Assy, piston (included in repair kit)	1
423	46249	BB	Retainer, valve	1
424	13966	NBR	O-ring, valve retainer (outer) – 70D	1
425	46248	BB	Retainer, piston	1
426	46250	S	Washer	1
428	13969	NBR	O-ring, piston retainer – 70D	1
429	17399	NBR	O-ring, valve retainer (inner) – 80D	1
435	548193	S	Valve	1
436	46253	S	Seat	1
437	13963	NBR	O-ring, seat – 70D	1
468	33099	NBR	Kit, O-ring (incl. 414, 415, 428, 429, 431, 441)	1
470	31088	NBR	Kit, repair (incl. 412, 431, 436, 441)	1

Italics are optional items. R Components comply with RoHS directive.

Material codes

BB	Brass	S	304 stainless steel
NBR	Medium Nitrile (Buna-N)	STCP	Steel / chrome plated
PTFE	Pure Polytetrafluoroethylene		



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