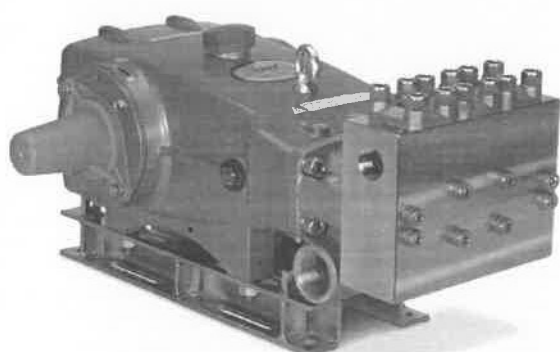


DATA SHEET

35 FRAME PLUNGER PUMP



Model: 3560DEx



Model 3560 Shown
(Shaft protector included; mounting rails sold separately)

FEATURES

- Triplex plunger design ensures high efficiency and low pulsation.
- Durable dual V-packings are lubricated and cooled by pumped liquid.
- Pre-set low-pressure seals provide secondary protection against external leaks and require no packing adjustment.
- Special high-density, polished concentric plungers provide a true wear surface and extended seal life.
- Wet-end easily serviced without entering crankcase.
- Pump comes standard with NBR seals. Alternative seal materials are available.

SPECIFICATIONS

	U.S. Measure	Metric Measure
Flow	20 gpm	76 lpm
Pressure Range	100 - 4000 psi	6.9 - 275 bar
Pump RPM*	1160 rpm	1160 rpm
Inlet Pressure Range	Flooded-70 psi	Flooded-4.8 bar
Max. Liquid Temperature (NBR)	160° F	71° C
Above 71°C/160°F call Cat Pumps for inlet conditions and elastomer recommendations. If the pump is operated with higher media temperatures, the operator has to assure that the surface temperature of the pump will not exceed 100°C/212°F.		
Bore	0.984"	25 mm
Stroke	1.890"	48 mm
Crankcase Capacity	4.2 qts.	4l
Inlets Ports (2)	1 1/2" NPT(F)	1 1/2" NPT(F)
Discharge Ports (2)	1" NPT(F)	1" NPT(F)
Pulley Mounting	Either Side	Either Side
Shaft Diameter	1.378"	35 mm
Weight	142 lbs.	64.4 kg
Dimensions	23.54 x 18.11 x 9.88"	598 x 460 x 251 mm

*Pump minimum is 100 RPM.

ALTERNATE SPECIFICATIONS

	U.S. Measure	Metric Measure
Flow	25 gpm	95 lpm
Pressure Range	100 - 3000 psi	6.9 - 210 bar
Pump RPM*	1450 rpm	1450 rpm

ALTERNATIVE SEAL CONFIGURATION

MATERIAL	SUFFIX CODE
NBR	—
FPM	.0110
STHT	.3400

DETERMINING THE PUMP R.P.M.	Rated gpm	=	"Desired" gpm
	Rated rpm	=	"Desired" rpm
DETERMINING THE REQUIRED H.P.	Hp (Electric Brake)	=	$\frac{\text{gpm} \times \text{psi}}{1460}$
		=	
DETERMINING MOTOR PULLEY SIZE	Motor Pulley O.D.	=	Pump Pulley O.D.
	Pump rpm	=	Motor rpm

Refer to pump **Service Manual** for repair procedure and additional technical information.

PARTS LIST

ITEM	PART NO	MATL	DESCRIPTION	QTY
	3560DEx			
5	96049	S	Screw, HHC, Sems (M10x25) (See Tech Bulletin 074, 125)	8
8	134604	ALE	Cover, Bearing (See Tech Bulletin 118, 125)	2
9	815279	FBR	Shim, Split, 2-Piece (See Tech Bulletin 125)	0-2
10	12398	NBR	O-Ring, Bearing Cover - 70D	2
11	13296	NBR	Seal, Oil, Crankshaft	2
12	855049	S	Shim, Split, 2-Piece	0-2
15	29326	STL	Bearing, Roller	2
20	121467	TNM	Rod, Connecting Assembly (Includes: 21,22,23) (See Tech Bulletin 074)	3
21	126749	STCP R	Washer, Locking (M10)	3
22	126593	STCP R	Washer, Flat (M10)	6
23	122045	STZP	Screw, HH (M10x55)	6
25	29325	FCM	Crankshaft, Dual End (M48)	1
31	704710	PA	Aeration cap G1/2"-A-1-ATEX	1
32	709643	S	Adapter, Filler Cap, 1/2"IG	1
33	14177	NBR	O-Ring, Oil Filler Cap - 70D	1
34	126743	STCP R	Bolt, Eye (M12x1.75) (For Lifting Pump Only)	1
37	709611	—	Gauge, Oil with Gasket, ATEX, SS	2
40	125753	S	Screw, HHC, Sems (M8x25) (See Tech Bulletin 074)	8
48	25625	STCP	Plug, Drain (1/4"x19BSP)	1
49	23170	NBR	O-Ring, Drain Plug - 70D	1
50	45936	ALE	Cover, Crankcase (See Tech Bulletin 118)	1
51	16612	NBR	O-Ring, Crankcase - 70D	1
52	002594G14	SS	Plug screw w/Seal G1/4"	3
53	134786DEx	ALE	Crankcase Assembly (Includes: 54) (08/10) (See Tech Bulletin 118, 125)	1
54	27488	S	Pin, Guide	2
56	27790	POP	Pan, Oil	1
59	92538	S	Screw, HHC, Sems (M6x16)	2
64	43864	CM	Pin, Crosshead	3
65	49076	SSHB	Rod, Plunger	3
69	126587	STCP R	Washer, Oil Seal	3
70	100488	NBR S	Seal, Oil, Crankcase	3
75	110669	S	Slinger, Barrier	3
88	110670	S	Washer, Keyhole (M16)	3
90	48535	CC	Plunger (M25x110)	3
95	126549	STCP R	Stud, Plunger Retainer (M7x103)	3
96	20184	PTFE	Backup Ring, Plunger Retainer	3
97	14190	NBR	O-Ring, Plunger Retainer - 70D	3
98	44069	SS	Gasket, Retainer	3
99	44068	SS	Retainer, Plunger (M7) (See Tech Bulletin 074)	3
100	855017	—	Retainer, Seal 2-Piece (See Tech Bulletin 105)	3
106	44086	NBR	Seal, Low-Pressure, with SS-Spring	3
110	49759	FBB	Manifold, Inlet (08/10)	1
112	11379	NBR	O-Ring, Inlet Manifold - 70D	3
117	44585	S	Screw, HSH (M14x40) (See Tech Bulletin 074)	4
126	48538	BB	Adapter, Female	3
127	† 44610	STG	V-Packing	6
128	48539	BB	Adapter, Male	3
155	17629	NBR	O-Ring, Spacer V-Packing - 80D	6
156	28243	PTFE	Backup Ring, Spacer V-Packing	6
157	49082	BB	Spacer, V-Packing	3
160	49092	NBR	O-Ring, Seat, Inlet - 80D	3
161	49091	S	Seat, Inlet	3
162	49088	PTFE	Backup Ring, Discharge Seat	3
163	49087	NBR	O-Ring, Seat, Discharge - 70D	3
164	49086	S	Seat, Discharge	3
165	49090	PVDF	Retainer, Spring, Inlet	3
166	49089	S	Valve	6
167	44109	SS	Spring	6
168	49085	PVDF	Retainer, Spring, Discharge	3
172	18690	NBR	O-Ring, Valve Plug - 70D	3
173	20369	PTFE	Backup Ring, Valve Plug	3
174	49093	BB	Plug, Valve	3
175	550176	S	Screw, HSH (M14x35) (See Tech Bulletin 074)	12
185	49084	SS	Manifold, Discharge	1
188	49045	S	Screw, HSH (M12x95) (See Tech Bulletin 074)	8
250	703964	F	Protector, Shaft	1

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

† Production parts are different than repair parts. For additional technical information see www.catpumps.com/literature/tech-bulletins.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic ALE=Aluminum Epoxy BB=Brass BBSS=Brass/316SS CC=Ceramic CM=Chrome-Moly F=Cast Iron

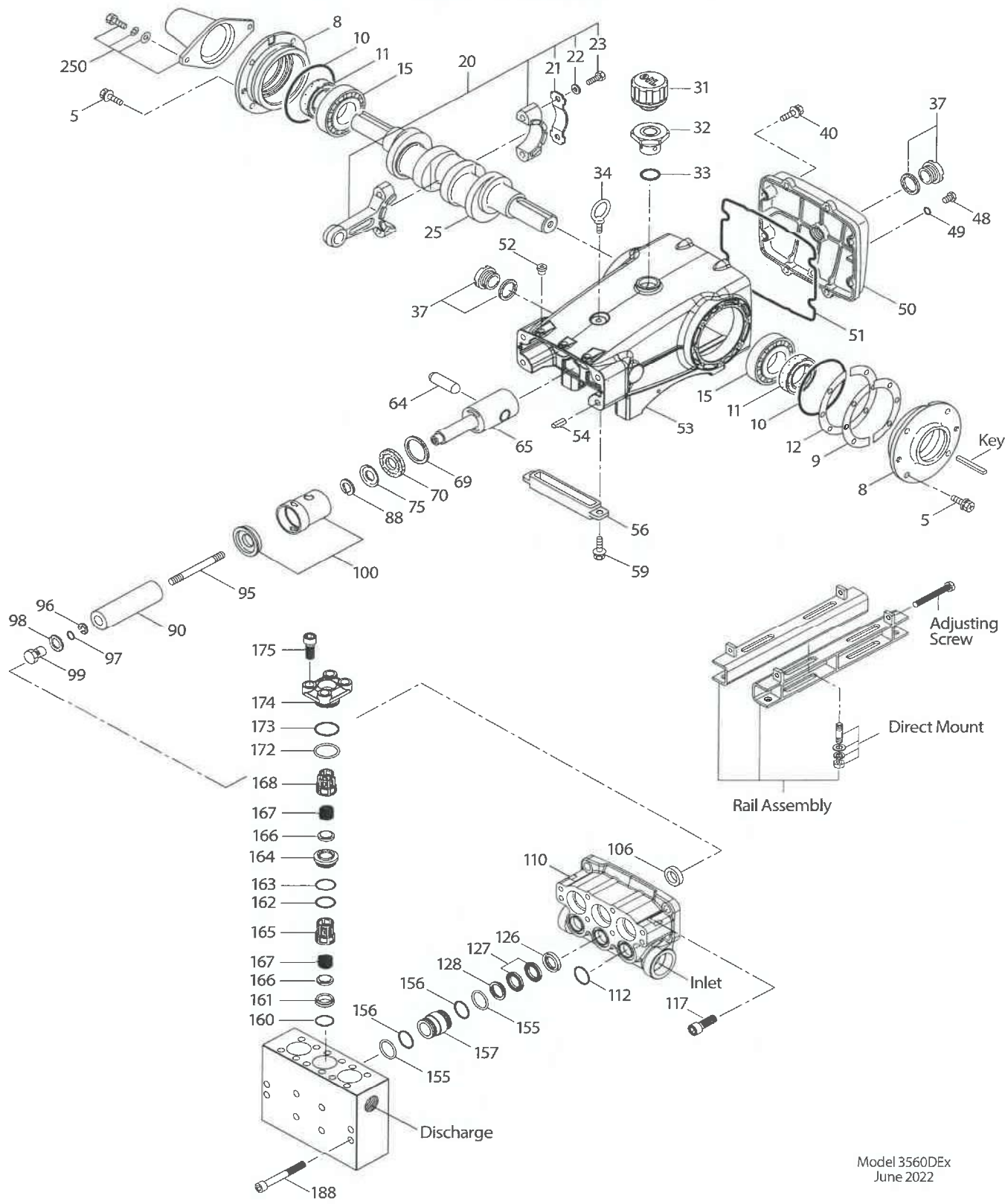
FBB=Forged Brass FBR=Fiber FCM=Forged Chrome-Moly FPM=Fluorocarbon NBR=Medium Nitrile (Buna-N) NBRs=Buna, Silicone Free NY=Nylon

PC=Poly Carbonate PA=Polyamide POP=Polypropylene PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SS=316SS SSHB=316SS/High Strength Brass

STCP=Steel/Chrome Plated STG=Special Blend PTFE White STHT=Special PTFE High Temp STL=Steel STZP=Steel/Zinc Plated TNM=Special High Strength ZP=Zinc Plated

Optional Parts and Accessories and Service parts listed on Page 3. Standard and optional Seal Kits and Valve Kits listed on page 4.

EXPLODED VIEW



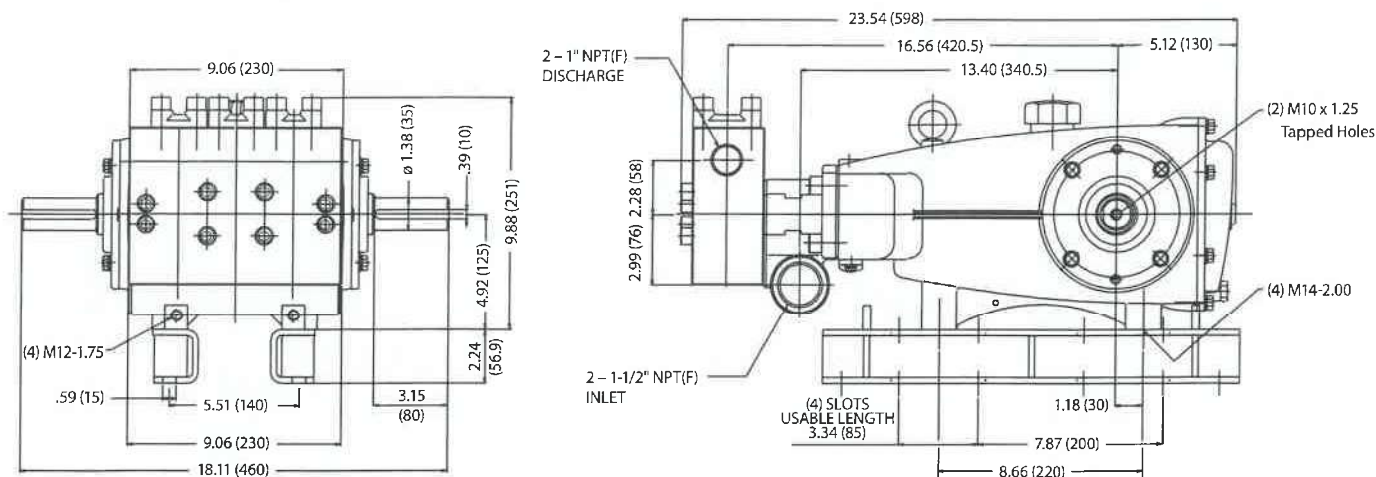
Model 3560DEx
June 2022

OPTIONAL PARTS AND ACCESSORIES

PART	DESCRIPTION	QTY
30742	Key, (M10 x 8 x 70)	1
126611	Mount, Rail Assembly	1
34018	Mount, Direct	1
80540	Screw, Adjusting (M12 x 100)	1
34334	Kit, Oil Drain (3/8" x 24") (Not Shown)	1
819000	Assembly, Crankcase, Cast Iron Conversion (Not Shown)	1

SERVICE PARTS

PART	DESCRIPTION	QTY
31280	Kit, Seal - Standard NBR	1
31292	Kit, Valve - Standard NBR	2
6100	Oil, Case (12 - 0.6 l / 21 oz bottles) (Fill to Specified Crankcase Capacity Prior to Start-up)	1
6124	Gasket, Liquid (0.1 l / 3 oz)	1
6139	Lubricant, Anti-Seize (0.24 l / 8 oz)	1
816958	Head, Complete with NBR Seals and O-Rings	1



Model 3560

SEAL KITS One (1) seal kit required per pump

PUMP MODEL	NBR (STD)	FPM (.0110)	STHT (.3400)
3560	31280*	31380*	76376*

ITEM (Included in Seal Kits)				DESCRIPTION	QTY
97	14190	14161	14190	O-Ring, Plunger Retainer	3
106	44086	45846	76086	Seal, Low-Pressure	3
112	11379	11739	11379	O-Ring, Inlet Manifold	3
127	44610	44610	44610	V-Packing	6
155	17629	14183	17629	O-Ring, Spacer V-Packing	6
156	28243	28243	28243	Backup Ring, Spacer V-Packing	6

*Review material codes for individual items (STG generally may be used as alternative).

VALVE KITS POne (1) valve kit required per pump

PUMP MODEL	NBR (STD)	FPM (.0110)	STHT (.3400)
3560	31292	31296	31292

ITEM (Included in Valve Kits)				DESCRIPTION	QTY
160	49092	49155	49092	O-Ring, Seat, Inlet	3
161	49091	49091	49091	Seat, Inlet	3
162	49088	49088	49088	Backup Ring, Discharge Seat	3
163	49087	49154	49087	O-Ring, Seat, Discharge	3
164	49086	49086	49086	Seat, Discharge	3
165	49090	49090	49090	Retainer, Spring, Inlet	3
166	49089	49089	49089	Valve	6
167	44109	44109	44109	Spring	6
168	49085	49085	49085	Retainer, Spring, Discharge	3
172	18690	11744	18690	O-Ring, Valve Plug	3
173	20369	20369	20369	Backup Ring, Valve Plug	3



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Technical changes reserved
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