

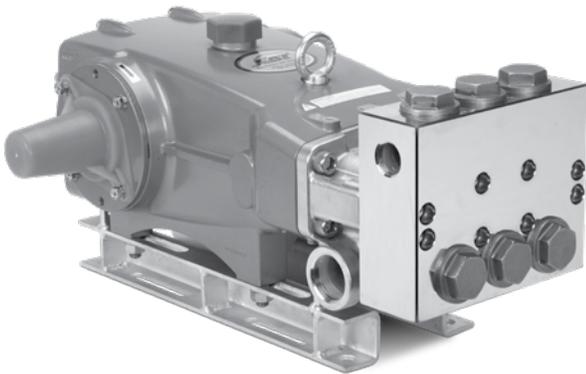
# DATA SHEET

## 35 FRAME PLUNGER PUMPS



**Brass Model: 3570**

**Flushed Model: 3570C**



Model 3570 Shown  
(Shaft protector included, mounting rails sold separately)

SPECIFICATIONS	U.S. Measure	Metric Measure
Flow*	30 gpm	114 lpm
Pressure Range*	100 - 3000 psi	6.9 - 207 bar
Pump RPM**	1080 rpm	1080 rpm
Inlet Pressure	Flooded to 70 psi	Flooded to 4.8 bar
Max. Liquid Temp. (NBR)	120° F	48° C

Alternative seals available for high temp up to 140° F

Bore	1.260"	32 mm
Stroke	1.890"	48 mm
Crankcase Capacity	4.2 qts	4 L
Inlets Ports (2)	1-1/2" NPT(F)	1-1/2" NPT(F)
Flush Ports (2)	1/4" NPT(F)	1/4" NPT(F)
Discharge Ports (2)	1" NPT(F)	1" NPT(F)
Pulley Mounting	Either Side	Either Side
Shaft Diameter	1.378"	35 mm
Weight	138.9 lbs	63 kg
Dimensions	23.94 x 18.11 x 9.72"	608 x 460 x 247 mm

\*Intermittent Duty Only

\*\*Pump minimum is 100 RPM.

### FEATURES

- Triplex design delivers high efficiency and low pulsation.
- Durable dual V-Packings are lubricated and cooled by pumped liquid.
- Pre-set Lo-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.
- Special flushed inlet manifold with 3570C permits external flush for added cooling with high temperature liquids and lubrication with low lubricity liquids.
- Standard NBR seals with alternate options for temperature and chemical compatibility.

### ALTERNATIVE SEAL CONFIGURATION

MATERIAL	SUFFIX CODE	MAXIMUM TEMPERATURE
NBR	—	120° F (48° C)
FPM	.0110	140° F (60° C)
EPDM	.0220	140° F (60° C)

See Reference Document 99REF017 for inlet conditions and RPM at high temperature.

$$\text{DETERMINING THE PUMP R.P.M.} \quad \frac{\text{Rated gpm}}{\text{Rated rpm}} = \frac{\text{"Desired" gpm}}{\text{"Desired" rpm}}$$

$$\text{DETERMINING THE REQUIRED H.P.} \quad \text{Hp (Electric Brake)} = \frac{\text{gpm} \times \text{psi}}{1460}$$

$$\text{DETERMINING MOTOR PULLEY SIZE} \quad \frac{\text{Motor Pulley O.D.}}{\text{Pump rpm}} = \frac{\text{Pump Pulley O.D.}}{\text{Motor rpm}}$$

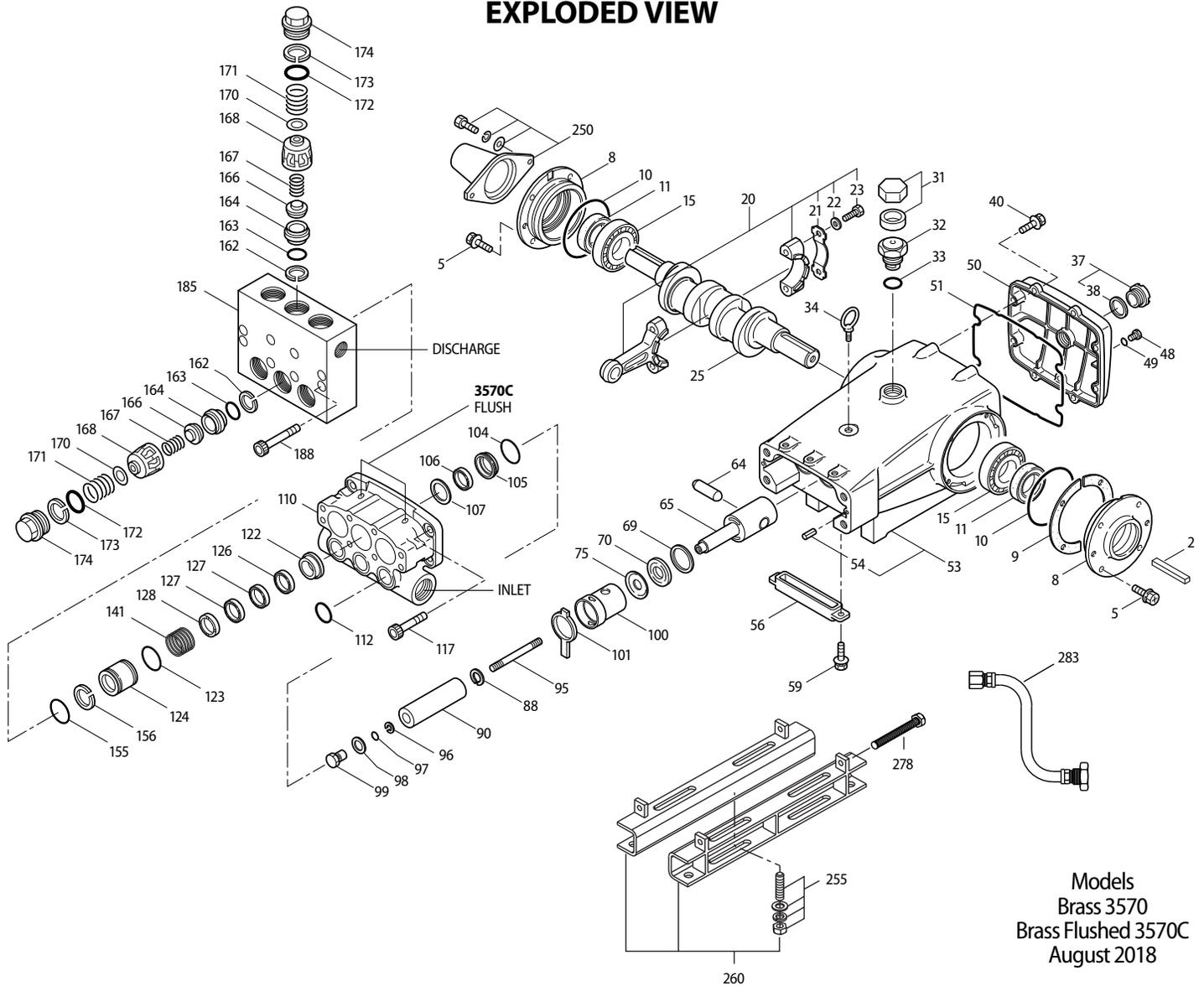
Refer to pump **Service Manual** for repair procedure and additional technical information.

**Intermittent Duty Cycle Defined as:** Operating pump at stated flow and pressure for no more than 50% of time in any given hour.

# PARTS LIST

ITEM	P/N	MATL	DESCRIPTION	QTY
2	34021	STL	Key (M10x8x70)	1
5	96049	S	Screw, HHC, Sems (M10x25) (See Tech Bulletin 125)	8
8	134604	AL	Cover, Bearing (See Tech Bulletin 118, 125)	2
9	815279	FBR	Shim, Split, 2-Pc (See Tech Bulletin 125)	3
10	12398	NBR	O-Ring, Bearing Cover - 70D	2
11	13296	NBR	Seal, Oil, Crankshaft	2
15	29326	STL	Bearing, Roller	2
20	121467	TNM	Rod, Connecting Assy (Incls: 21, 22, 23)	3
21	126749	STCP R	Washer, Locking (M10)	3
22	126593	STCP R	Washer, Flat (M10.5)	6
23	122045	STZP	Screw, HH (M10x55)	6
25	29325	FCM	Crankshaft, Dual End (M 48)	1
31	828710	PE	Protector, Oil Cap w/ Foam Gasket	1
32	43211	ABS	Cap, Oil Filler	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	92241	—	Gauge, Oil, Bubble w/Gasket	1
38	44428	NBR	Gasket, Flat, Oil Gauge - 80D	1
40	125753	S	Screw, HHC, Sems (M8x25)	8
48	25625	STCP	Plug, Drain (1/4"x19BSP)	1
49	23170	NBR	O-Ring, Drain Plug - 70D	1
50	45936	AL	Cover, Crankcase (See Tech Bulletin 118)	1
51	16612	NBR	O-Ring, Crankcase - 70D	1
53	134784	AL	Crankcase Assy (Incls: 34, 54) (See Tech Bulletin 118, 125, 126)	1
54	27488	S	Pins, Guide	2
56	27790	POP	Pan, Oil	1
59	92538	S	Screw, HHC, Sems (M6x16)	2
64	43864	CM	Pin, Crosshead	3
65	49166	SSHB	Rod, Plunger	3
69	126587	STCP R	Washer, Oil Seal	3
70	100488	NBRS	Seal, Oil, Crankcase	3
	44739	FPM	Seal, Oil, Crankcase	3
75	43865	S	Slinger, Barrier	3
88	45676	S	Washer, Keyhole (M16)	3
90	43957	CC	Plunger (M32X145)	3
95	† 89778	SS	Stud, Plunger Retainer (M10X135)	3
96	20189	PTFE	Back-up-Ring, Plunger Retainer	3
97	11345	NBR	O-Ring, Plunger Retainer - 70D	3
	11375	FPM	O-Ring, Plunger Retainer	3
98	44085	SS	Gasket, Retainer	3
99	† 44084	SS	Retainer, Plunger (M10)	3
100	44119	PPG	Retainer, Seal (See Tech Bulletin 105)	3
101	44106	—	Wick, Long Tab	3
104	43875	NBR	O-Ring, Adapter - 70D	3
	44826	FPM	O-Ring, Adapter - 70D	3
105	49741	BB	Adapter	3
106	† 44098	NBR	Seal, LPS w/SS-Spg	3
	44827	FPM	Seal, LPS w/SS-Spg	3
107	43962	S	Washer, LPS	3
110	<b>49464</b>	BBCP R	Manifold, Inlet	1
	<b>49464C</b>	BBCP R	Manifold, Inlet, Flushed (1/4" Flush Ports)	1
112	11379	NBR	O-Ring, Inlet Manifold	3
	14183	FPM	O-Ring, Inlet Manifold	3
117	44585	S	Screw, HSH (M14 x 40)	4
122	49744	BB	Spacer, V-Packing	3
123	12391	NBR	O-Ring, Spacer - 70D	3
	13266	FPM	O-Ring, Spacer - 70D	3
124	49742	BB	Cylinder, V-Packing	3
126	43963	BB	Adapter, Female	3
127	† 44608	STG	V-Packing	6
128	43965	BB	Adapter, Male	3
141	49743	SS	Spring, Coil	3
155	48860	NBR	O-Ring, V-Packing Cylinder - 90D	3
	20137	FPM	O-Ring, V-Packing Cylinder - 70D	3
156	48362	D	Back-up-Ring, V-Packing Cylinder	3
162	48363	D	Back-up-Ring, Valve Seat	6
163	26142	NBR	O-Ring, Valve Seat - 80D	6
	14330	FPM	O-Ring, Valve Seat - 70D	6
164	133052	S	Seat, Valve	6
166	43932	S	Valve	6
167	133053	S	Spring	6
168	44728	PVDF	Retainer, Spring	6
170	44729	SS	Washer, Spring	6
171	44644	SS	Spring, Coil	6
172	89827	NBR	O-Ring, Valve Plug - 90D	6

# EXPLODED VIEW



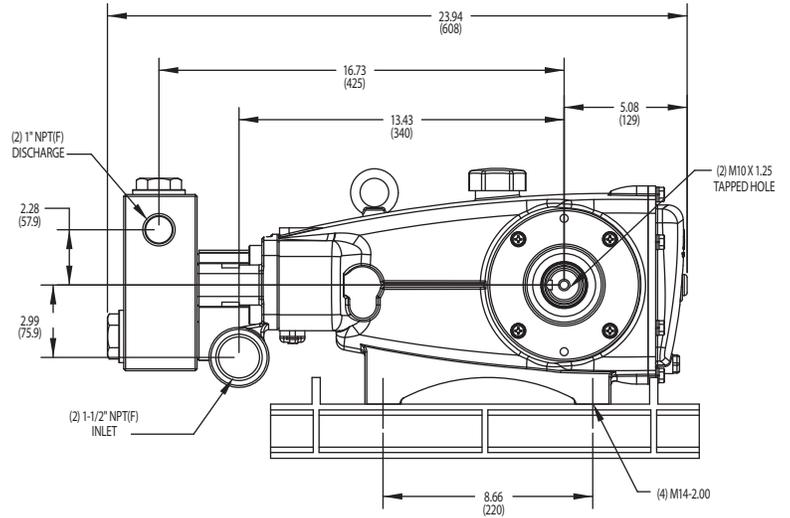
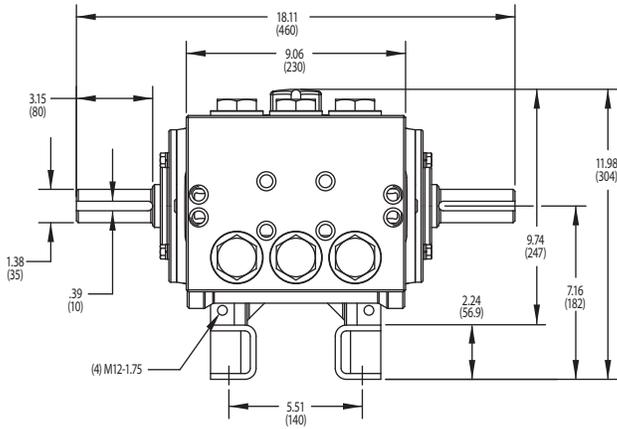
Models  
Brass 3570  
Brass Flushed 3570C  
August 2018

ITEM	P/N	MATL	DESCRIPTION	QTY
	11747	FPM	O-Ring, Valve Plug - 90D	6
173	48364	D	Back-up-Ring, Valve Plug	6
174	44643	NAB	Plug, Valve	6
185	133049	BBCP	Manifold, Discharge	1
188	89981	S	Screw, HSH (M12 x 70)	8
250	855042	NY	Protector, Shaft w/2 Screws, Lockwashers and Washers (Included with pump) (See Tech Bulletin 125)	1
255	34018	STZPR	Kit, Direct Mount	1
260	92674	STZPR	Mount, Rail Assembly (Includes: 34018)	1
278	80540	STZP	Screw, HH (M12 x 100) (Rail Adjusting Screw)	1
279	30278	STZP	Oiler (1 oz.)	3
283	34314	—	Kit, Oil Drain (3/8" x 48") (See individual data sheet)	1
	34334	—	Kit, Oil Drain (3/8" x 24") (See individual data sheet)	1
	76334	—	Kit, Oil Level Indicator (3/8" x 24") (See individual data sheet)	1
290	6124	—	Gasket, Liquid (3 oz.)	1
299	818610	BBCP	Head, Complete w/NBR Seals and O-Rings (Model 3570 only)	1
300	76782	NBR*	Kit, Seal (Includes: 97, 104, 106, 112, 123, 127, 155, 156) <b>Standard</b>	1
	76818	FPM*	Kit, Seal (Includes: 97, 104, 106, 112, 123, 127, 155) <b>.0110</b>	1
310	76794	NBR	Kit, Valve Preassembled (Includes: 162, 163, 164, 166, 167, 168, 170, 172, 173) <b>Standard</b>	2
	76831	FPM	Kit, Valve Preassembled (Includes: 162, 163, 164, 166, 167, 168, 170, 172, 173) <b>.0110</b>	2
—	6100	—	Oil, Case (12 Bottles) ISO 68 Hydraulic (Fill to specified crankcase capacity prior to start-up)	1

**Bold print part numbers are unique to a particular pump model. Italics are optional items.** \* Review material codes for individual items (SNG and STG generally may be used as alternate).  
R Components comply with RoHS Directive. [ ] Date of latest production change View Tech Bulletins 024, 035, 036, 043, 074, 083, 105, 114, 118, 125 and 126 for additional information.

† Production parts different from service parts.

MATERIAL CODES (Not Part of Part Number): ABS=ABS Plastic AL=Aluminum BB=Brass BBCP=Brass/Chrome Plated CC=Ceramic CM=Chrome-Moly D=Acetal  
FBR=Fiber FCM=Forged Chrome-Moly FPM=Fluorocarbon NAB=Nickel Aluminum Bronze NBR=Medium Nitrile (Buna-N) NBRS=Buna, Silicone Free  
NY=Nylon PE=Polyethylene POP=Polypropylene PPG=Glass Filled Polypropylene PTFE=Pure Polytetrafluoroethylene PVDF=Polyvinylidene Fluoride S=304SS SS=316SS  
SSHB=316SS/High Strength STCP=Steel/Chrome Plated 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](http://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](http://www.catpumps.com/warranty).