

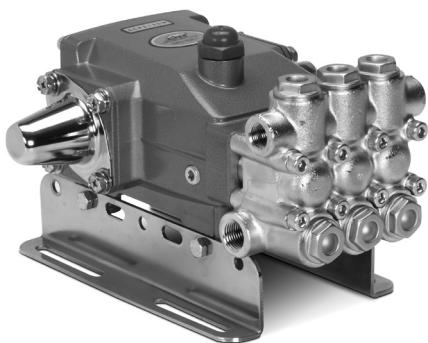
DATA SHEET

5CP PLUNGER PUMPS



Brass Model: **5CP2110W**

Special Brass Model: **5CP2110B**



Model 5CP2120W Shown
(Mounting rails and shaft protector sold separately)

FEATURES

- Triplex plunger design ensures high efficiency and low pulsation.
- Belt-driven option provides precision flow setting.
- Direct-drive option offers a compact footprint for direct-drive motors with a NEMA or IEC frame, or SAE hydraulic motors with a bell housing/flexible coupler assembly.
- Pump comes standard with NBR seals. Alternative seal materials are available for higher temperature or chemical compatibility.

SPECIFICATIONS	U.S. Measure	Metric Measure	Alternative
Flow	2.8 gpm	10.6 lpm	8,7 lpm
Pressure Range	100 - 2500 psi	6.9 - 172 bar	175 bar
Pump RPM*	1725 rpm	1725 rpm	1420 rpm
Bore	0.787"	20 mm	
Stroke	0.283"	7.2mm	
Inlet Pressure Range	Flooded to 60 psi	Flooded to 4.1 bar	
Crankcase Capacity	17 oz.	0.50 l	
Standard Liquid Temp.	160° F	71° C	

Alternative seals available for higher temperatures up to 88°C (190° F)

Inlet Ports (2)	1/2" NPT(F)	1/2" NPT(F)	
Discharge Ports (2)	3/8" NPT(F)	3/8" NPT(F)	
Shaft Diameter	0.787"	20 mm	
Weight	19.14 lbs.	8.7 kg	
Dimensions	10.31x10.00x5.79"	262x254x147 mm	

*Pump minimum is 100 RPM.

ALTERNATIVE SEAL CONFIGURATION

MATERIAL	SUFFIX CODE	MAXIMUM TEMPERATURE	
NBR	—	160°F	(71°C)
FPM	.0110	180°F	(82°C)
EPDM	.0220	160°F	(71°C)
HT	.3000	180°F	(82°C)
STHT	.3400	190°F	(88°C)

DETERMINING THE PUMP R.P.M.	Rated gpm	=	"Desired" gpm
	Rated rpm	=	"Desired" rpm
DETERMINING THE REQUIRED H.P.	Hp	=	gpm x psi
	(Electric Brake)	=	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 NUMBER	MATL	DESCRIPTION	QTY
	SCP2110W SCP2110B			
5	126542	STCP R	Screw, Sems HHC (M8x16) (See Tech Bulletin 074)	8
8	46910	AL	Cover, Bearing	2
10	14028	NBR	O-Ring, Bearing Cover	2
11	43222	NBR	Seal, Oil, Crankshaft	2
15	14480	STL	Bearing, Ball	2
20	48742	TNM	Rod, Connecting Assembly (See Tech Bulletin 074)	3
25	48395	FCM	Crankshaft, Dual-End	1
32	46798	—	Cap, Oil Filler, Domed	1
33	14179	NBR	O-Ring, Oil Filler Cap	1
37	92241	PC	Gauge, Oil, Bubble with Gasket	1
38	44428	NBR	Gasket, Flat, Oil Gauge	1
40	125824	STCP R	Screw, Sems HHC (M6x16) (See Tech Bulletin 074)	4
48	25625	STCP	Plug, Drain (1/4"x19BSP)	1
49	23170	NBR	O-Ring, Drain Plug	1
50	46940	AL	Cover, Rear	1
51	14044	NBR	O-Ring, Rear Cover	1
53	48617	AL	Crankcase	1
64	46746	CM	Pin, Crosshead	3
65	48458	BBNP	Rod, Plunger	3
70	46838	NBR	Seal, Oil, Crankcase	3
75	43328	S	Slinger, Barrier	3
88	45697	S	Washer, Keyhole (M18 x 10)	3
90	46841	CC	Plunger (M20x50)	3
98	46730	NBR	Washer, Seal	3
99	† 48201	SS	Retainer, Plunger (M6) (See Tech Bulletin 074)	3
100	46749	PVDF	Retainer, Seal	3
106	43305	NBR	Seal, Low-Pressure with S-Spring	3
120	46843	BB	Case, Seal	3
121	13978	NBR	O-Ring, Seal Case	3
125	43307	SNG	Seal, High-Pressure with S-Support	3
162	48361	D	Backup Ring, Seat	6
163	43358	NBR	O-Ring, Seat	6
164	43725	S	Seat	6
166	43723	S	Valve	6
167	43750	S	Spring	6
168	44565	PVDF	Retainer, Spring	6
172	49382	NBR	O-Ring, Valve Plug	6
174	43849	BBCP	Plug, Valve (See Tech Bulletin 074)	6
185	48245	W770	Manifold, Head - W770	1
	49716	SBCP	Manifold, Head—Special Brass	1
188	126513	STCP R	Screw, HSH (M8x70) (See Tech Bulletin 074)	8

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

† Production parts are different than repair parts. R Components comply with RoHS Directive. W770 effective with 97 production.

For additional technical information see www.catpumps.com/literature/tech-bulletins.

MATERIAL CODES (Not Part of Part Number): AL=Aluminum BB=Brass BBCP=Brass/Chrome Plated BBNP=Brass/Nickel Plated CC=Ceramic CM=Chrome-moly

D=Acetal EPDM=Ethylene Propylene Diene Monomer FCM=Forged Chrome-moly FPM=Fluorocarbon HT=Hi-Temp (EPDM Alternative)

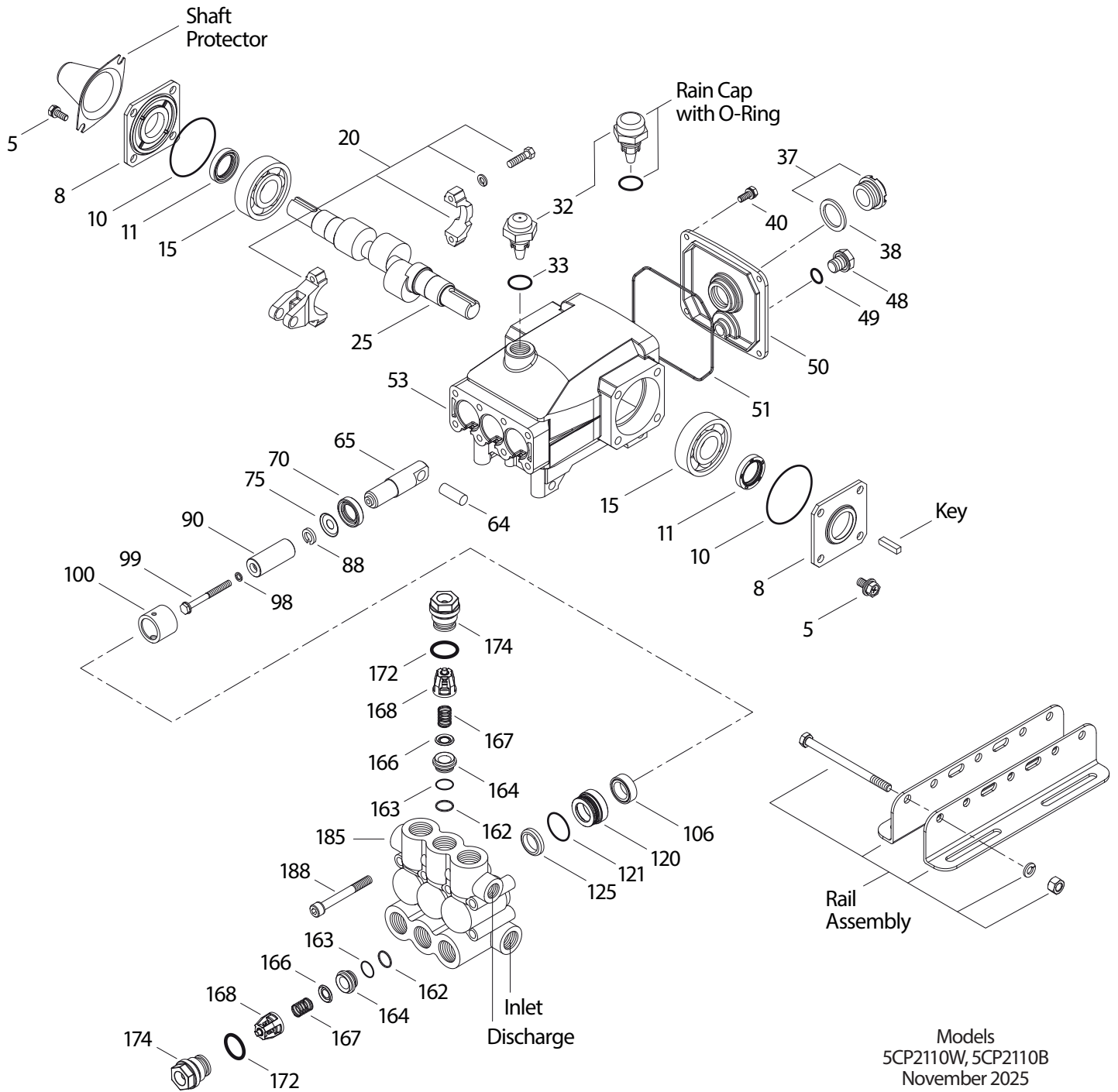
NBR=Medium Nitrile (Buna-N) PC=Poly Carbonate PVDF=Polyvinylidene Fluoride S=304SS SBCP=Special Brass/Chrome Plated SS=316SS

SNG=Special Blend (Buna) STL=Steel STHT=Special PTFE High Temp STCP=Steel/Chrome Plated STZP=Steel/Zinc Plated

TNM=Special High Strength W770=Special Alloy

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

EXPLODED VIEW



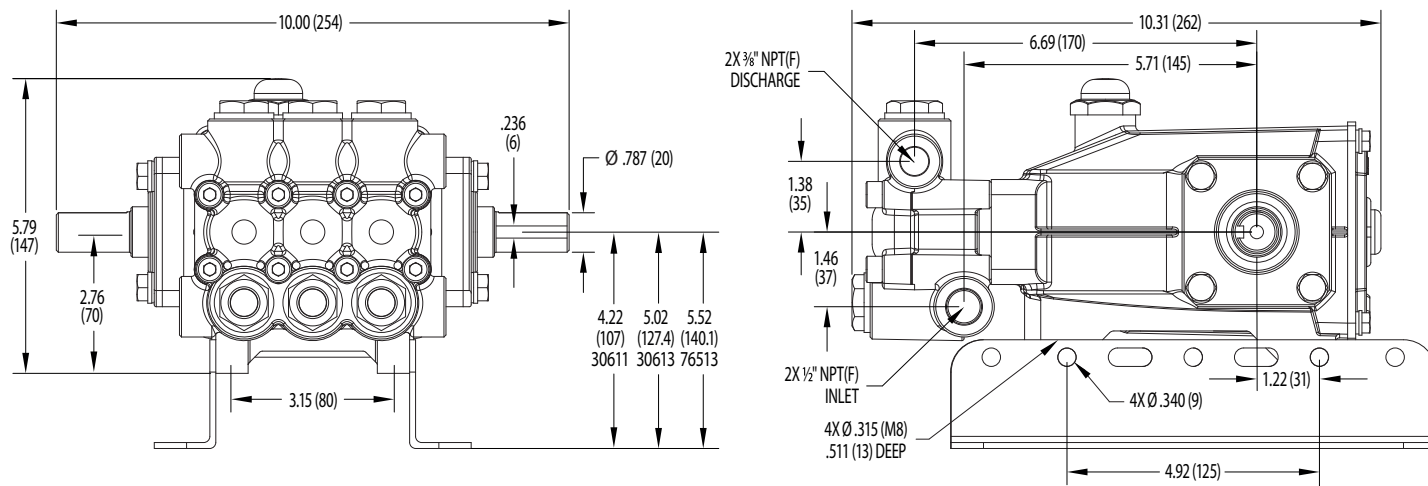
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OPTIONAL PARTS AND ACCESSORIES

PART	DESCRIPTION	QTY
30057	Key (M6 x 6 x 25)	1
126610	Mounting, Angle Rail (STZP R)	1
30243	Mount, Direct	1
118672	Protector, Shaft	1
127409	Cap, Rain with O-Ring (Vented)	1
22179	Plug, Inlet (1/2" NPT[M]) (Not Shown)	1
22187	Plug, Discharge (3/8" NPT[M]) (Not Shown)	1
34334	Kit, Oil Drain (3/8" x 24") (Not Shown)	1

SERVICE PARTS

PART	DESCRIPTION	QTY
33628	Kit, Seal - Standard NBR	1
30821	Kit, Valve - Standard NBR	2
6107	Oil, Bottle (0,62 l) ISO-68 Hydraulic (Fill to Specified Crankcase Capacity Prior to Start-up)	1
30696	Reverse Pliers (Not Shown)	1
816650	Head, Complete with NBR Seals & O-Rings (Model 5CP2110W)	1
818472	Head, Complete with NBR Seals & O-Rings (Model 5CP2110B)	1



Models 5CP2110W, 5CP2110B

SEAL KITS One (1) seal kit required per pump

PUMP MODELS	NBR (STD)	FPM (.0110)	EPDM (.0220)◆	HT (.3000)	STHT (.3400)
5CP2110W, 5CP2110B	33628	31628	31648 *	31638	76536

ITEM (Included in Seal Kits)						DESCRIPTION	QTY
98	46730	48394	48432	46730	46730	Washer, Seal	3
106	43305	—	—	43305	76305	Seal, Low-Pressure with S-Spring	3
	—	45153	48429	—	—	Seal, Low-Pressure with SS-Spring	3
120	—	—	—	—	49436	Case, Seal	3
121	13978	14329	48904	13978	13978	O-Ring, Seal Case	3
125	43307	—	—	—	—	Seal, High-Pressure with S-Support	3
	—	44936	—	—	—	Seal, High-Pressure with SS-Support	3
	—	—	46667	46667	46667	Seal, High-Pressure with 2-Piece S-Support	3

◆ Silicone oil/grease required

*Review material codes for individual items (HT may be used as an alternative)

VALVE KITS Two (2) valve kits required per pump

PUMP MODELS	NBR (STD)	FPM (.0110)	EPDM (.0220)◆	HT (.3000)	STHT (.3400)
5CP2110W, 5CP2110B	30821	31821	31162	30821	30821

ITEM (Included in Valve Kits)						DESCRIPTION	QTY
162	48361	48361	48361	48361	48361	Backup Ring, Seat	3
163	43358	44938	48908	43358	43358	O-Ring, Seat	3
164	43725	43725	43725	43725	43725	Seat	3
166	43723	43723	43723	43723	43723	Valve	3
167	43750	43750	43750	43750	43750	Spring	3
168	44565	44565	44565	44565	44565	Retainer, Spring	3
172	49382	15855	48431	49382	49382	O-Ring, Valve Plug	3

◆ Silicone oil/grease required

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.de or can be requested directly from CAT PUMPS.