

ELECTRICAL HYDROSTATIC TEST PUMP – MADE IN USA

Designed for hydrostatic pressure test, pipes, hoses, valves, pressure vessels, spools, pipelines, BOP systems, pipelines all industries piping, plumbing and more with wide ranges of fluids:

❖ WATER

❖ HYDRAULIC

❖ GLYCOL

❖ OILS

- Pump: Triplex Plunger
- Power: 208/240V or 400V/480V
- Amps: 48.2 /24.1
- Three-Phase
- Motor 60/50HZ
- Motor 20HP (7.5 Kw)
- RPM 1770



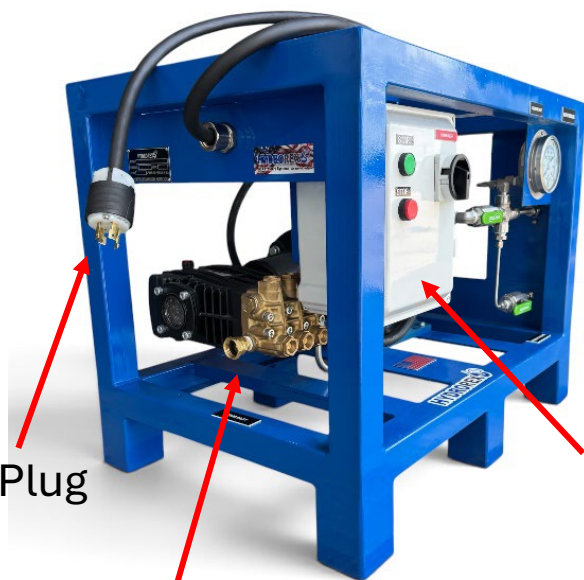
MODEL	PRESS.	LPM	IN PORT	OUT PORT	MOTOR	POWER	ELEC. PHASE
M12-7K-2REX	7250 PSI	16	3/4 NPT	1/2 NPT	20HP	208V-240V	3-PHASE
M12-7K-4REX	7250 PSI	16	3/4 NPT	1/2 NPT	20HP	400V-480V	3-PHASE

FEATURES

- 4" Pressure Gauge 0-10000 Psi (Dual scale Bar/Psi)
- Pressure Isolation Valve
- Pressure Release/Bleed Valve
- Adjustable PSV Valve 200-7500 Psi
- Electric Start/Stop IEC
- Enclosed UL508A
- 15ft Electrical Cord Plug L-14-30P
- Heavy duty structure 2" square tube
- Affordable & Easy to Operate

PORTS

- **Liquid Inlet:** 1/2" Female NPT (with 3/4 GHT Adapter)
- **Output Press:** 1/2" Female NPT
- **Release/Bleed:** 1/4" Female NPT
- **Monitoring Port:** 1/4" Female NPT for recorders, sensors, gauges etc. "Optional"



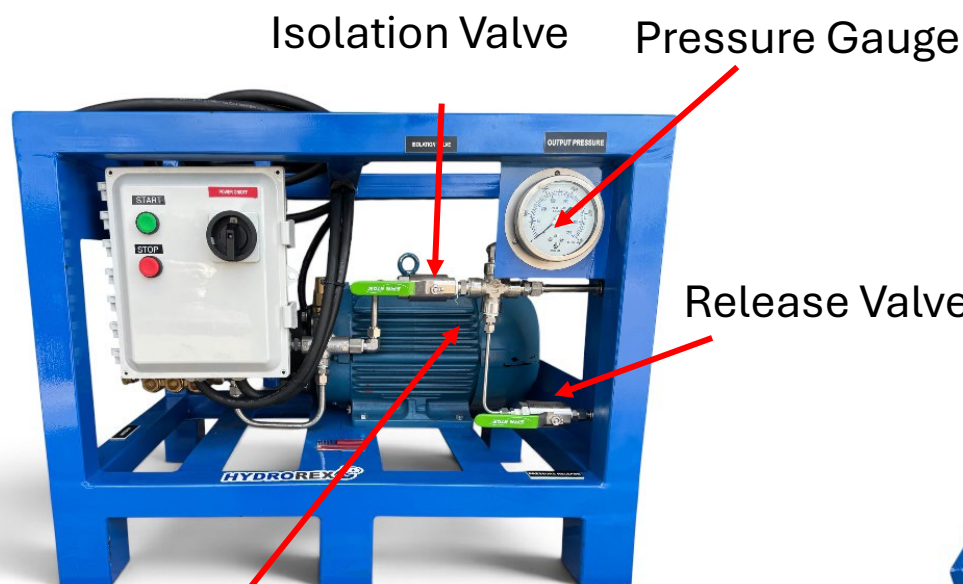
Elec. Plug

Start/Stop
Controller

Liquid Inlet 1/2 NPT
With 3/4 GHT for Garden Standard Hose



Pressure Regulator
Adjustable PSV



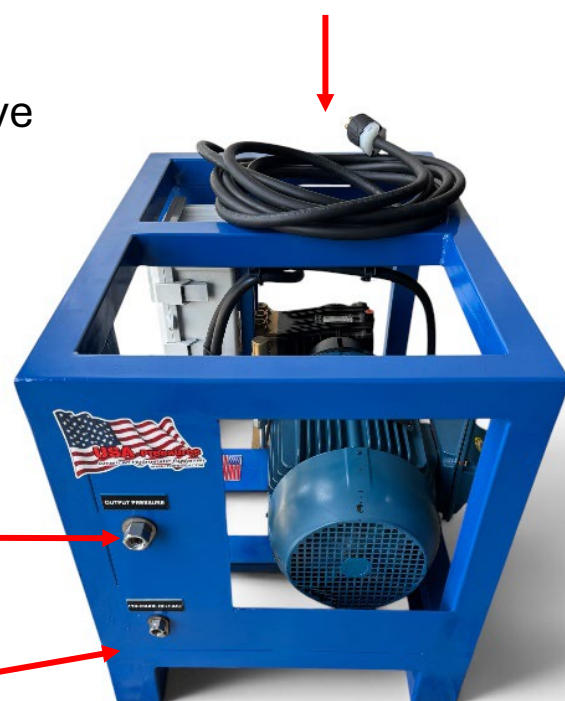
Isolation Valve

Pressure Gauge

Release Valve

All Stainless
Flow System

20ft Elec. Cord



Output Pressure
1/2 female NPT

Release/Bleed Press.
1/4 female NPT

WITH STAINLESS LIQUID TANK

MODEL	PRESS.	LPM	IN PORT	OUT PORT	MOTO R	POWER	ELEC. PHASE
M12-7K-2TREX	7250 PSI	16	3/4 NPT	1/2 NPT	20HP	208V-240V	3-PHASE
M12-7K-4TREX	7250 PSI	16	3/4 NPT	1/2 NPT	20HP	400V-480V	3-PHASE

Contact us to customize your liquid tank capacity based on your specific pressure testing requirements. We can configure the tank size to match your application, pressure range, and testing needs.



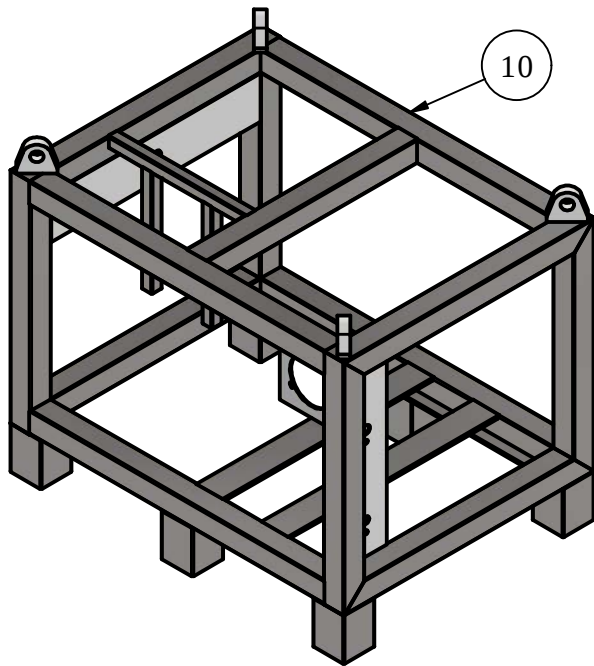
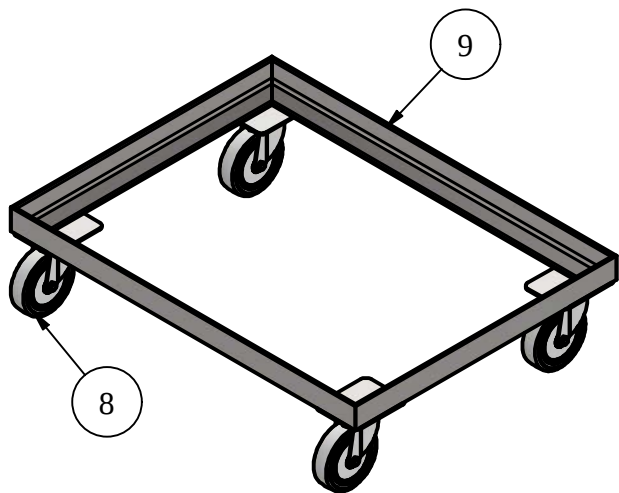
B

1

2



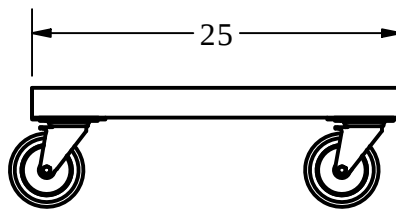
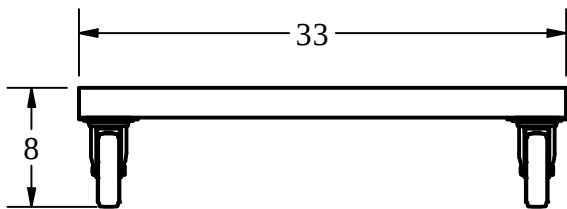
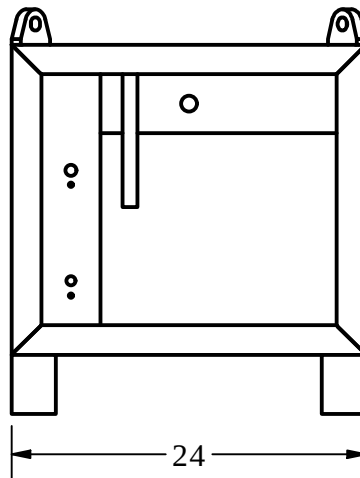
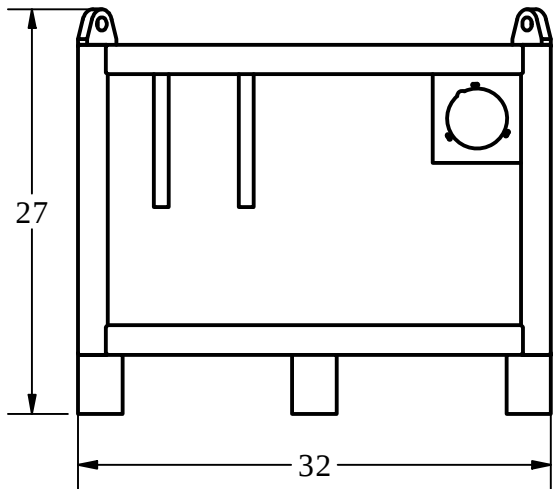
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B

B

BASE CART - OPTIONAL



A

A

2



1



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TITLE

**M12-7000 FRAME
W/ CASTER
BASE - OVERALL
DIMENSIONS**

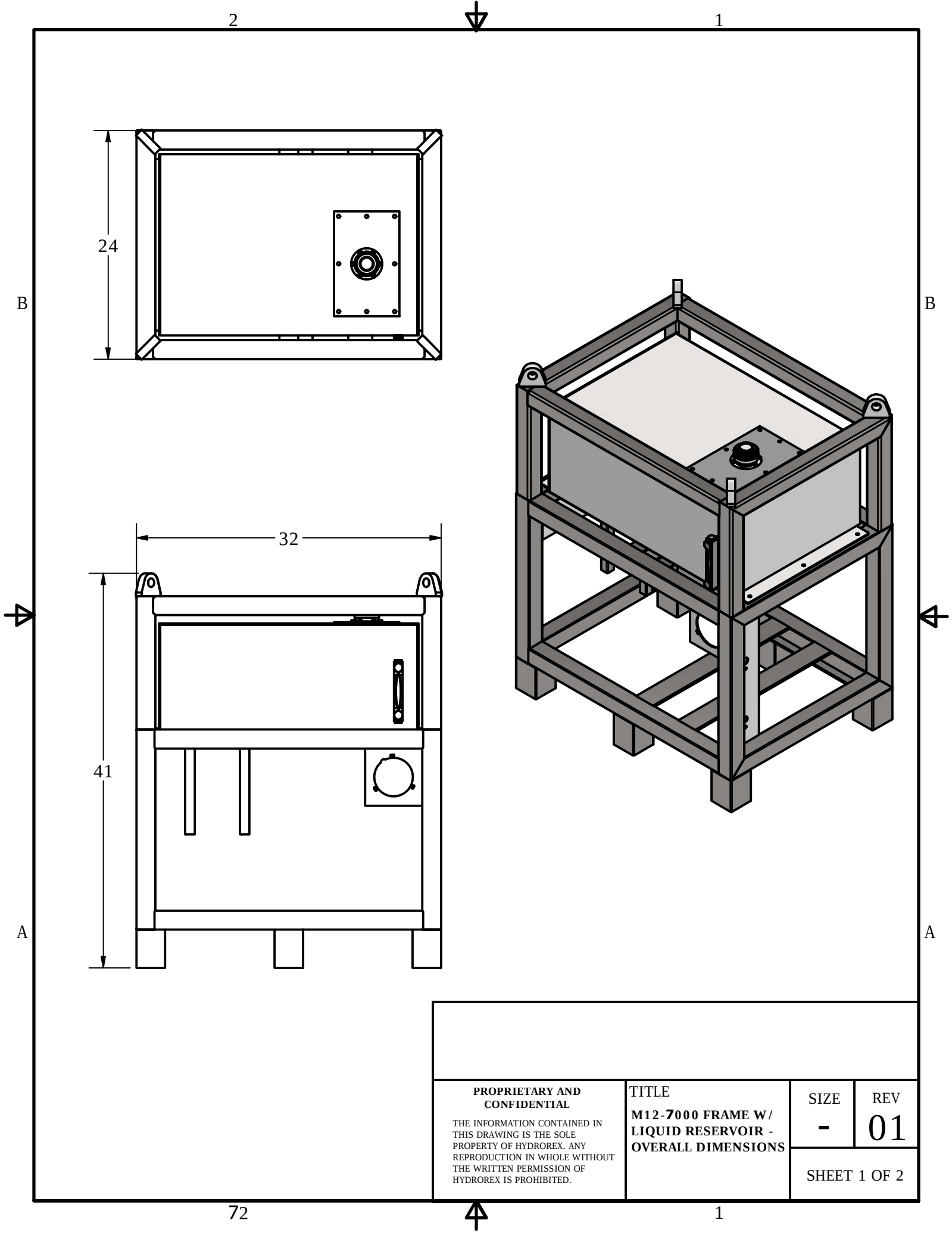
SIZE

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REV

02

SHEET 1 OF 2



PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HYDROREX. ANY REPRODUCTION IN WHOLE WITHOUT THE WRITTEN PERMISSION OF HYDROREX IS PROHIBITED.	TITLE M12-7000 FRAME W/ LIQUID RESERVOIR - OVERALL DIMENSIONS	SIZE -	REV 01
		SHEET 1 OF 2	



OPERATING INSTRUCTIONS

CONNECTING THE UNIT

- 1- The motor switch must be in the off position, connect the electrical cord into the outlet plug, recommended an electrical extension of no more than 40 feet in length.
- 2- WATER: Connect clean pressurized water source to pump inlet. It is recommended that the unit be pressure fed.
HYDRAULIC & OTHERS FLUIDS: For gravity feed, locate the elevated water above the level of the unit, then prime the pump.
3. Connect the high pressure hose to the output 1/2" female NPT port.

OPERATING THE UNIT

- 1- Turn the outlet valve (isolation valve) to the open position and close the pressure release valve and start the motor.
- 2- The pressure should start to rise slowly depending on the volume of liquid or size of the test. Once test pressure has been reached, close the outlet pressure isolation valve ball and shut-off motor.**
- 3- Once the outlet ball valve is closed and your test begins, you have now isolated the test pump from the test environment, any loss of pressure is due to leaks in the test environment.

PRESSURE REGULATOR (PSV)

The pressure regulator is regulated by the factory but in case you want to change the pressure you, must make this adjustment while the water is flowing freely and the system is under no pressure. To adjust the pressure, first loosen the locknut. Turn the Thandle/ Knob clockwise to increase and counter-clockwise to decrease the pressure. Place a ball valve or similar open and close valve at the end of the outlet hose, open and close this valve multiple times as needed, to check pressure setting and re-adjust as necessary. It is also recommended that you open and close the hose bib located under the gauge to bleed excess air from piping and ensure accurate pressure gauge readings. Upon reaching desired pressure setting, tighten locknut and prepare to begin test.



- Solid Ceramic Plungers
- Stainless Steel Check Valves
- Heavy Duty Brass Manifold
- Heavy Duty Bronze Connecting Rods
- Deeper Back Cover for Increased Oil Capacity
- 34.5 oz. Capacity Vented Oil Bath Crank Case
- 3/4" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

CHD Series 24mm Keyed Solid Shaft Plunger Pumps

CHD Series super duty plunger pumps include a wide range of models with flow rates from 3.0 to 4.2 GPM and pressures up to 7250 PSI.

Other drive options include gas engine gear reduction.

Applications include general pressure cleaning,, construction, hydro-excavation and oil field applications.

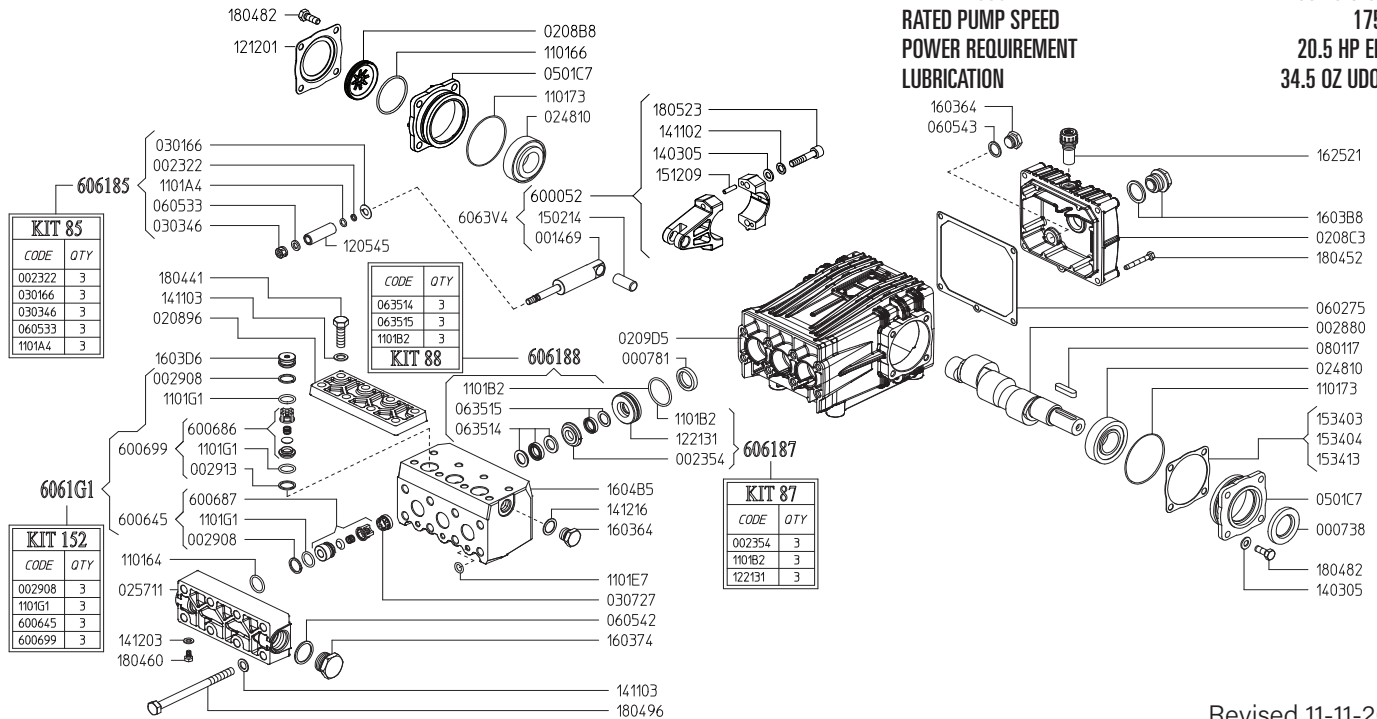
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	CHD 3.0/75 S	3.0	11.5	7250	500	15mm	13.5mm	N	15.0 EBHP	6061.88	6061.G1	49 lbs
	CHD 4.5/75 S	4.2	16.0	7250	500	15mm	19.00mm	YP	20.5 EBHP	6061.88	6061.G1	49 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. CHD 3.0/75 SL)



MAX FLOW
MAX PRESSURE
RATED PUMP SPEED
POWER REQUIREMENT
LUBRICATION

4.2 GPM / 16.0 L/MIN
7250 PSI / 500 BAR
1750 RPM
20.5 HP ELECTRIC
34.5 OZ UDOR LUBE



Revised 11-11-2024

Part #	Description	Qty
0007.38	OIL SEAL D30	1
0007.81	OIL SEAL D20	3
0014.69	PLUNGER GUIDE D15 "CH"	3
0023.22	RING D6.3 ^B	3
0023.54	UPPER RING D15 ^D	3
0028.80	MALE SHAFT D24	1
0029.08	RING ^A	3
0029.08	RING ^A / PART OF 6006.45	3
0029.13	RING ^A / PART OF 6006.99	3
0208.96	COVER "CH"	1
0208.B8	OIL SIGHT GLASS	1
0208.C3	BACK COVER "C/CK"	1
0209.D5	GRANKCASE "C/CK/CH"	1
0248.10	ROLLER BEARING D30	2
0257.11	SUCTION MANIFOLD	1
0301.66	SLINGER RING ^B	3
0303.46	NUT D15 ^B	3
0307.27	SPACER	3
0501.C7	BEARING HOLLOW FLANGE	2
0602.75	BACK COVER GASKET	1
0605.33	GASKET D8 ^B	3
0605.42	GASKET D27	1
0605.43	GASKET D17	1
0635.14	HIGH PRESSURE SEAL KIT D15 ^C	3
0635.15	LOW PRESSURE SEAL KIT D15 ^C	3
0801.17	KEY A8X7X35	1
1101.64	O-RING - SUCTION MANIFOLD	3
1101.66	O-RING - OIL SIGHT GLASS	1
1101.73	O-RING - BEARING FLANGE	2
1101.A4	O-RING - PLUNGER ^B	3
1101.B2	O-RING - PRESSURE RING ^{C D}	3
1101.E7	O-RING - SPLIT MANIFOLD	3
1101.G1	O-RING - VALVE ^A	3
1101.G1	O-RING - VALVE ^A / in 6006.99	3
1101.G1	O-RING - VALVE ^A / in 6006.45	3
1205.45	CERAMIC PLUNGER D15	3
1212.01	RETAINER - OIL SIGHT GLASS	1

Part #	Description	Qty
1221.31	PRESSURE RING D15 ^D	3
1403.05	WASHER D8.4	10
1411.02	SERRATED WASHER D8	6
1411.03	SERRATED WASHER D10	16
1412.03	BONDED WASHER D6.7	1
1412.16	BONDED WASHER D17.3	1
1502.14	PIN D14X32	3
1512.09	PLUG D5X20 UNI1707	6
1534.03	SHIM 0.1 MM	-
1534.04	SHIM 0.2 MM	-
1534.13	SHIM 0.05 MM	-
1603.64	PLUG G3/8	2
1603.74	PLUG G3/4	1
1603.B8	OIL PLUG G3/4 + GASKET	1
1603.D6	PLUG	3
1604.B5	HEAD PISTON D15 SS	1
1625.21	OIL PLUG G3/8	1
1804.09	HEX BOLT M8X40	6
1804.41	HEX BOLT M10X35	8
1804.52	HEX BOLT M6X45	5
1804.60	HEX BOLT M6X10	1
1804.82	HEX BOLT M8X22	8
1804.96	HEX BOLT M10X140	8
6000.52	ROD ASSEMBLY	3
6006.45	SUCTION VALVE ASS'Y COMPLETE ^A	3
6006.86	OUTLET VALVE ASS'Y W/O O-RING ^A / in 6006.99	3
6006.87	SUCTION VALVE ASS'Y W/O O-RING ^A / in 6006.45	3
6006.99	OUTLET VALVE ASS'Y COMPLETE ^A	3
6061.85	PLUNGER KIT D15 (KIT 85)	
6061.87	BRASS RING KIT D15 (KIT 87)	
6061.88	WATER SEAL KIT (KIT 88)	
6061.G1	VALVE KIT D18 (KIT 152)	

^A Parts in 6061.G1 (Kit 152).

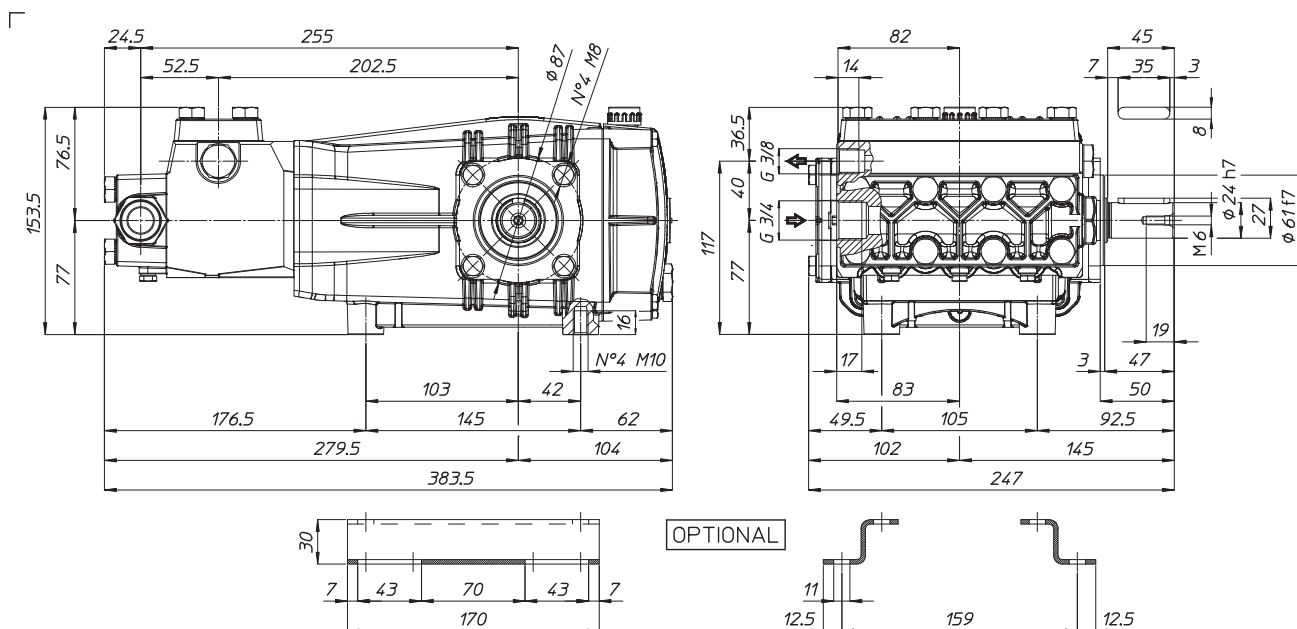
^B Parts in 6061.85 (Kit 85).

^C Parts in 6061.88 (Kit 88).

^D Parts in 6061.87 (Kit 87).

*Dimensional Drawings are
Shown in Millimeters.
To Convert to Inches,
Multiply Dimension x 0.03937*

CH SERIES PUMPS - 24mm SOLID SHAFT



TORQUE SPECS

Ref.	Description	Ft./lb.	Nm	Loctite®
1	Head Bolts	37	50	-
2	Valve Caps	-	-	-
3	Inlet Cap	103	140	-
4	Outlet Cap	60	80	243
5	Bearing Flange Bolts	19	25	-
6	Rear Cover Bolts	8	11	-
7	Connecting Rod Bolts	19	25	270
8	Plunger Bolts	15	20	270
9	Valve Cover Bolts	37	50	-
10	Oil Drain Plug	8	11	-

