

ELECTRICAL HYDROSTATIC TEST PUMP – MADE IN USA

Designed for hydrostatic pressure test, pipes, hoses, valves, pressure vessels, spools, pipelines, sprinkler systems, industrial, commercial & residential plumbing and more with wide ranges of fluids:

❖ WATER

❖ HYDRAULIC

❖ GLYCOL

❖ OILS

- Pump: Triplex Plunger
- Power: 208/240V or 400V/480V
- Amps: 24 /12.4
- Three-Phase
- Motor 60/50HZ
- Motor 10HP (7.5 Kw)
- RPM 1750



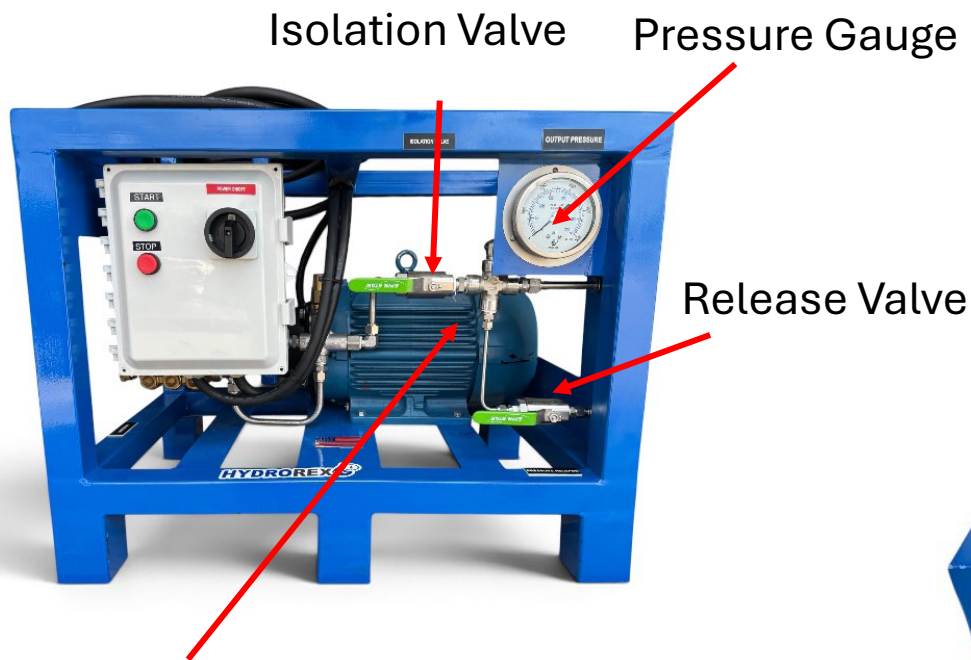
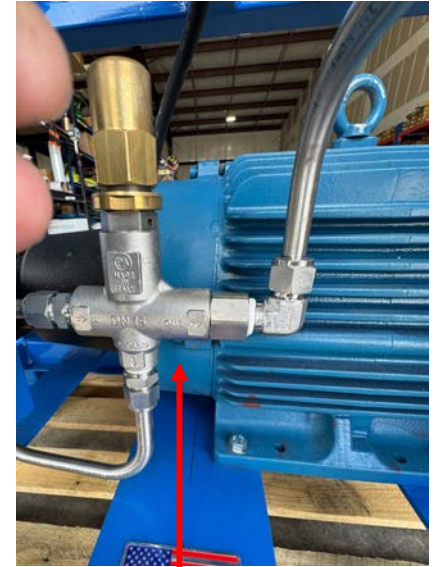
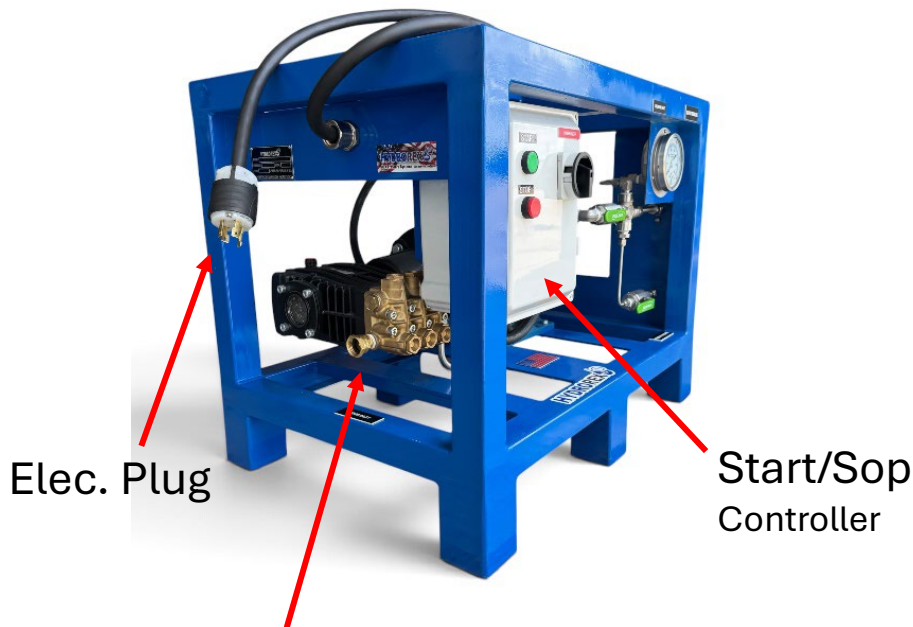
MODEL	PRESS.	LPM	IN PORT	OUT PORT	MOTOR	POWER	ELEC. PHASE
M12-4K-2REX	4350 PSI	15	3/4 NPT	1/2 NPT	10HP	208V-240V	3-PHASE
M12-4K-4REX	4350 PSI	15	3/4 NPT	1/2 NPT	10HP	400V-480V	3-PHASE

FEATURES

- 4" Pressure Gauge 0-5000 Psi (Dual scale Bar/Psi)
- Pressure Isolation Valve
- Pressure Release/Bleed Valve
- Adjustable PSV Valve 200-4350 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"



All Stainless
Flow System

Output Pressure
1/2 female NPT

Release/Bleed Press.
1/4 female NPT



WITH STAINLESS LIQUID TANK

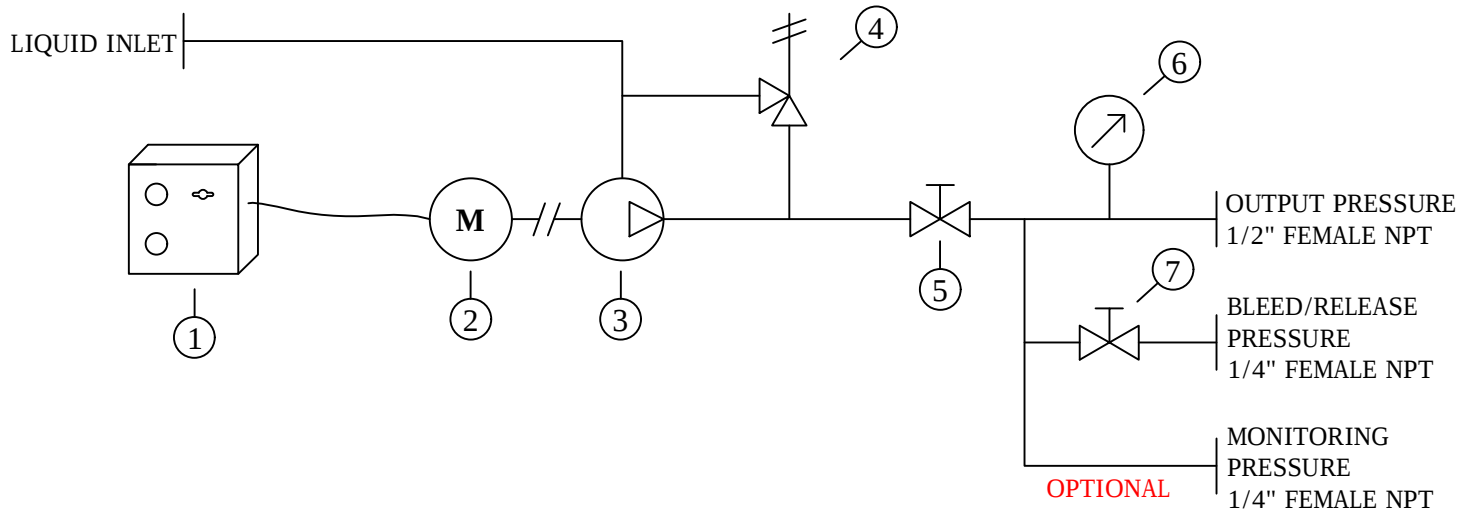
MODEL	PRESS.	LPM	IN PORT	OUT PORT	MOTOR	POWER	ELEC. PHASE
M12-4K-2TRES	4350 PSI	15	3/4 NPT	1/2 NPT	10HP	208V-240V	3-PHASE
M12-4K-4TRES	4350 PSI	15	3/4 NPT	1/2 NPT	10HP	400V-480V	3-PHASE

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.



BILL OF MATERIALS

ITEM	PART NO.	DESCRIPTION
1	10HP-240V-3P	10HP MOTOR STARTER 208V TO 240V 3 PHASE
2	01018ET3E215TC-W22	3 PHASE 10HP RPM-1800 FRAME-215-TC
3	BKD 4.0/445	TRIPLEX HEAD PUMP
4	SV350	PRESSURE ERGULATOR ADJUSTABLE 5000PSI
5	SS-BVNF8-10K	STAINLESS 10K BALL VALVE 1/2" NPT
6	SS-4-FLB-5K-MNPT	4" DIAL STAINLESS GAUGE 5000PSI
7	SS-BVNF4-10K	STAINLESS 10K BALL VALVE 1/4" NPT
8	C5-SW	5" SWIVEL CASTERS W/ LOCK 4000LB
9	M12-4K-BC	M12-4K BASE CART
10	M12-4K-F	M12-4K FRAME

**HYDROREX****PROPRIETARY AND
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TITLE

**M12-4000 FLOW LINE
& COMPONENT
IDENTIFICATION**

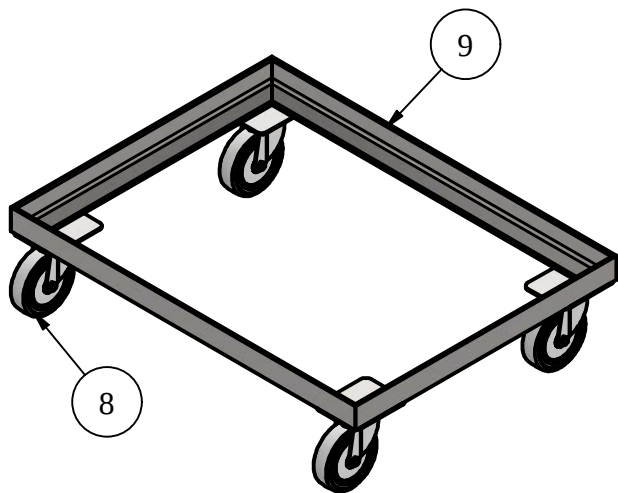
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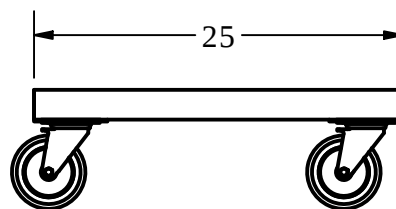
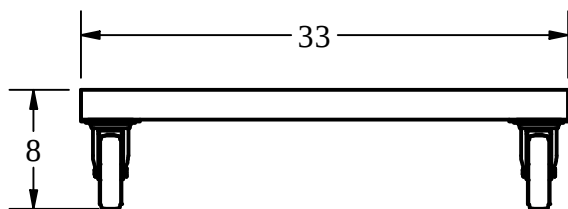
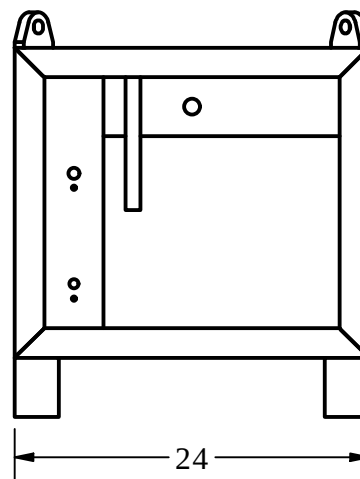
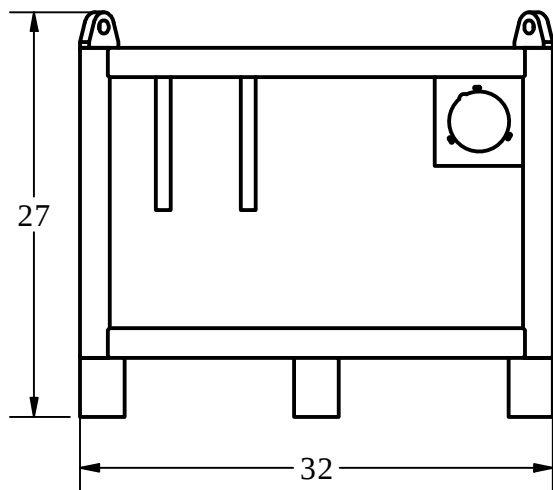
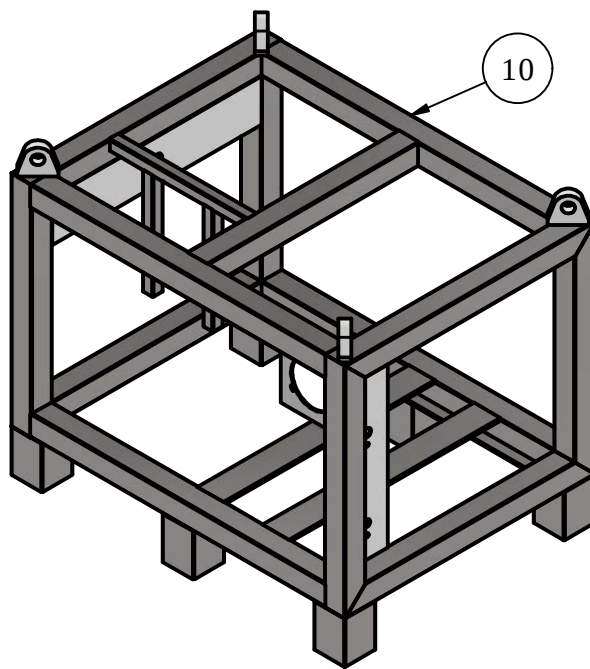
REV

01

SHEET 2 OF 2



BASE CART - OPTIONAL



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TITLE

**M12-4000 FRAME
W/ CASTER
BASE - OVERALL
DIMENSIONS**

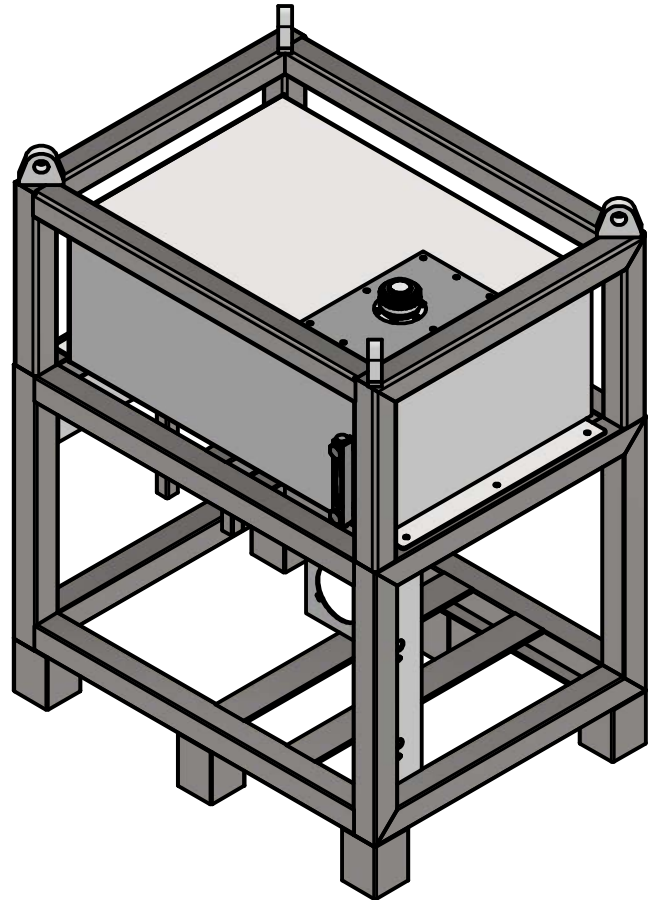
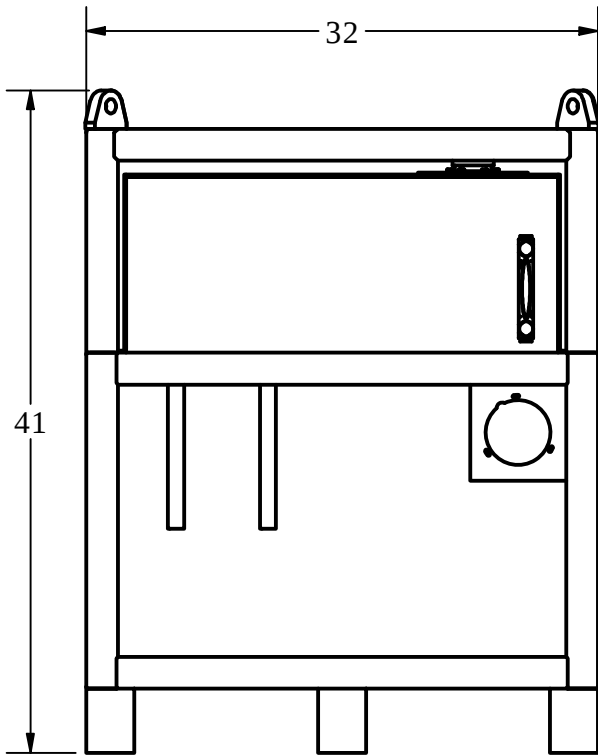
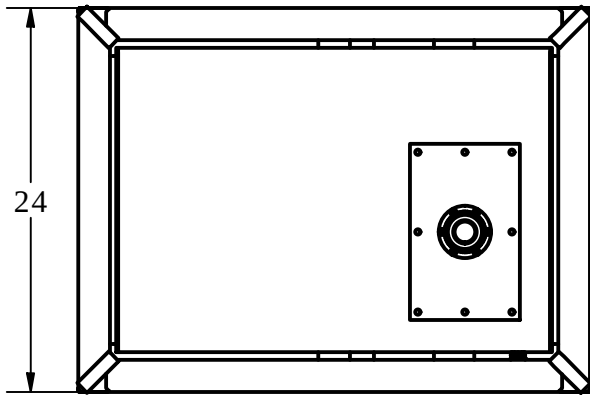
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02

SHEET 1 OF 2



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TITLE
M12-4000 FRAME
W/ LIQUID
RESERVOIR - OVERALL
DIMENSIONS

SIZE

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REV

01

SHEET 1 OF 2



OPERATING INSTRUCTIONS

CONNECTING THE UNIT

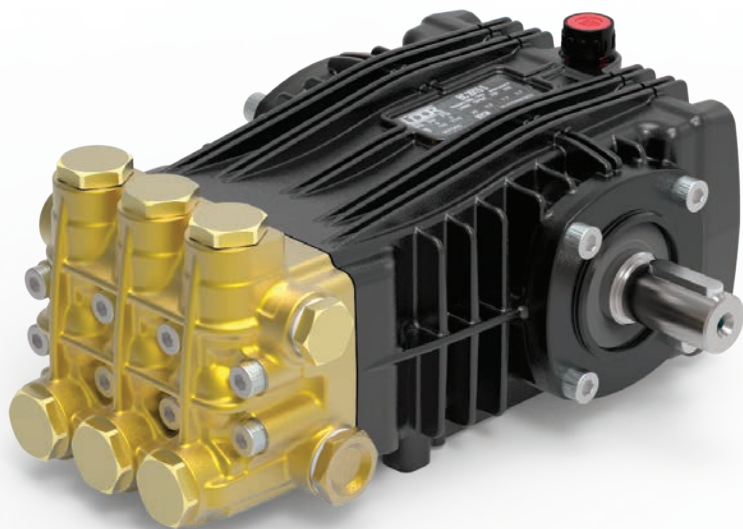
- 1- The motor switch must be in the off position, connect the electrical cord into the outlet plug, recommended an electrical extension of no more than 40 feet in length.
- 2- WATER: Connect clean pressurized water source to pump inlet. It is recommended that the unit be pressure fed.
HYDRAULIC & OTHERS 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.



- Heavy Duty Brass Manifold with External and Internal Bracing
- Heavy Duty Bronze or High Strength Aluminum Alloy Connecting Rods.
- Large Diameter Brass Valve Caps with Increased Thread Depth
- Reinforcing Ring on Inlet and Discharge Ports
- Deeper Back Cover for Increased Oil Capacity
- 15.4 oz. Capacity Vented Oil Bath Crank Case
- 1/2" BSP-F Inlet. 3/8" BSP-F Outlet
- Max Fluid Temp, 160°F

BKD Series 24mm Keyed Solid Shaft Plunger Pumps

BKD Series super duty plunger pumps include a range of models with flow rates from 4.0 to 4.8 GPM and pressures up to 4350 PSI.

Other drive options include gas engine flange, gas engine gear reduction and hydraulic motor flange.

Applications include general pressure cleaning, sewer jetting, vehicle wash equipment and UHP fire fighting applications.

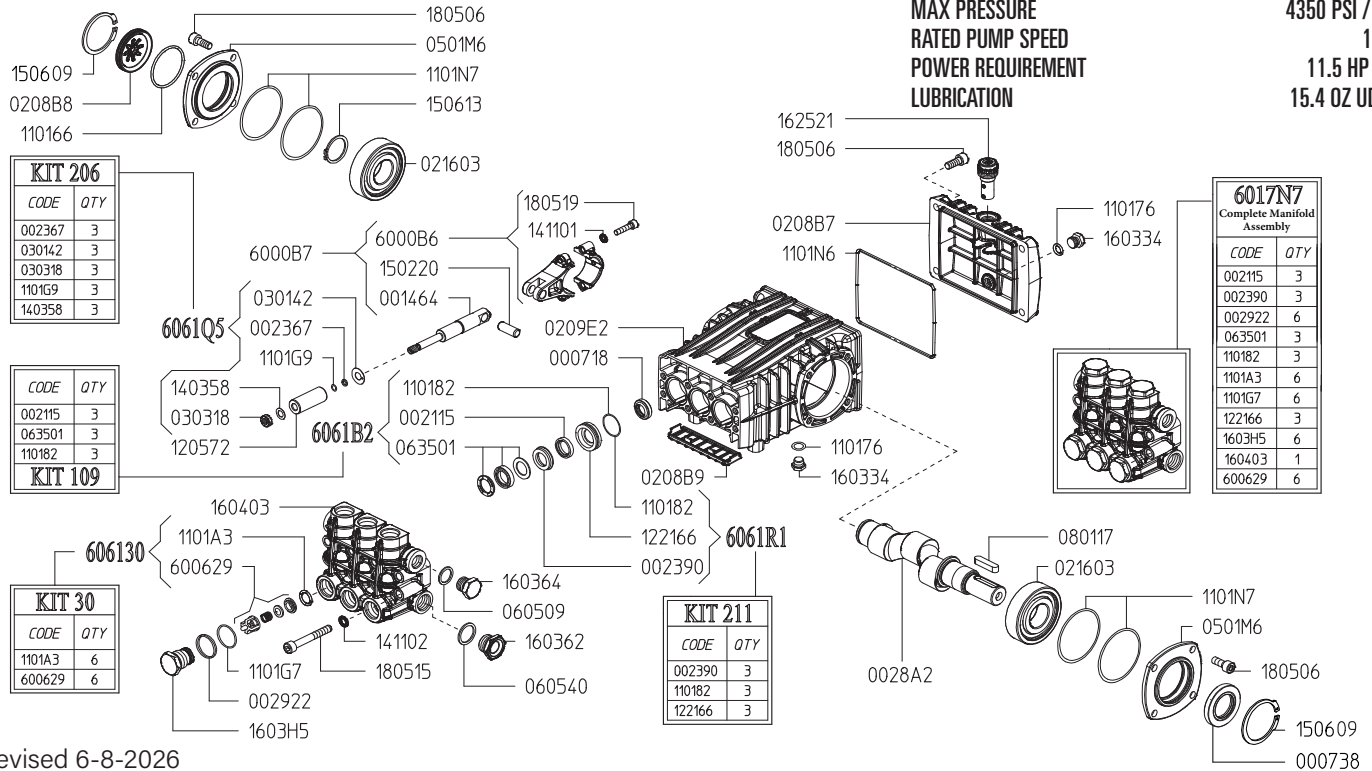
	Model	Flow		Pressure		Plunger Dia.	Crankshaft		Power	Seal Kit	Valve Kit	Wt.
		GPM	l/min	PSI	bar		Stroke	Code				
1750 RPM	BKD 4.0/44 S	4.0	15.0	4350	300	15mm	18.0mm	9	11.5 EBHP	6061.B2	6061.30	23 lbs
	BKD 5.0/36 S	4.8	18.2	3650	250	18mm	14.5mm	I	11.7 EBHP	6061.28	6061.30	23 lbs

NOTE: All pump models available with left-hand drive option. Add 'L' to model number when ordering (ex. BKD 5.0/36 SL)



MAX FLOW
MAX PRESSURE
RATED PUMP SPEED
POWER REQUIREMENT
LUBRICATION

4.0 GPM / 15 L/MIN
4350 PSI / 300 BAR
1750 RPM
11.5 HP ELECTRIC
15.4 OZ UDOR LUBE



Revised 6-8-2026

Part #	Description	Qty	Part #	Description	Qty
0007.18	OIL SEAL D15X24X5	3	1205.72	CERAMIC PLUNGER D15 "B/BK"	3
0007.38	OIL SEAL D30	1	1221.66	PRESSURE RING D15 "B/BK" ^{D E}	3
0014.64	PLUNGER GUIDE "B/BK"	3	1403.58	WASHER D8 ^C	3
0021.15	WATER SEAL LP D15 ^{B E}	3	1411.01	SERATED WASHER D6	6
0023.67	RING D5.2X8X1.3 ^C	3	1411.02	SERATED WASHER D8	8
0023.90	UPPER RING D15 "B/BK" ^{D E}	3	1502.20	PIN D10X27	3
0028.A2	MALE SHAFT "B/BK" D24	1	1506.09	SNAP RING D52	2
0029.22	RING "CK" D15.2 ^E	6	1506.13	SNAP RING D30	1
0208.B7	BACK COVER "B/BK"	1	1603.34	PLUG G1/4	2
0208.B8	OIL SIGHT GLASS	1	1603.62	PLUG G1/2	1
0208.B9	COVER "B/BK"	1	1603.64	PLUG G3/8	1
0209.E2	CRANKCASE "B-X/BK-X"	1	1603.H5	VALVE PLUG "BK" ^E	6
0216.03	BEARING D30	2	1604.03	HEAD "BK-X" ^E	1
0301.42	SLINGER RING ^C	3	1625.21	OIL PLUG G3/8	1
0303.18	NUT M8XH5 ^C	3	1805.06	ALLEN BOLT M8X20	12
0501.M6	BEARING FLANGE "B/BK"	2	1805.15	ALLEN BOLT M8X60	8
0605.09	GASKET D17X23X1.5	1	1805.19	ALLEN BOLT M6X25	6
0605.40	GASKET D21.5X27X1.5	1	6000.B6	CONNECTING ROD "B/BK"	3
0635.01	HIGH PRESSURE SEAL KIT D15 ^{B E}	3	6000.B7	COMPLETE CONNECTING ROD ASS'Y "B/BK"	3
0801.17	KEY A8X7X35	1	6006.29	VALVE ASSEMBLY WITHOUT O-RING ^{A E}	6
1101.66	O-RING - OIL SIGHT GLASS	1	6017.N7	COMPLETE MANIFOLD ASSEMBLY	1
1101.76	O-RING - PLUG	2	6061.30	KIT 30 - VALVE KIT "BK"	1
1101.82	O-RING - PRESSURE RING ^{B D E}	3	6061.B2	KIT 109 - WATER SEAL KIT	1
1101.A3	O-RING - VALVE ^{A E}	6	6061.Q5	KIT 206 - PLUNGER KIT D15/18 "B/BK"	1
1101.G7	O-RING - VALVE PLUG ^E	6	6061.R1	KIT 211 - BRASS RING KIT D18 "B/BK"	1
1101.G9	O-RING - PLUNGER ROD ^C	3			
1101.N6	O-RING - REAR COVER	1			
1101.N7	O-RING - BEARING FLANGE	4			

^A Parts in 6061.30 (Kit 30).

^B Parts in 6061.B2 (Kit 109).

^C Parts in 6061.Q5 (Kit 206).

^D Parts in 6061.R1 (Kit 211).

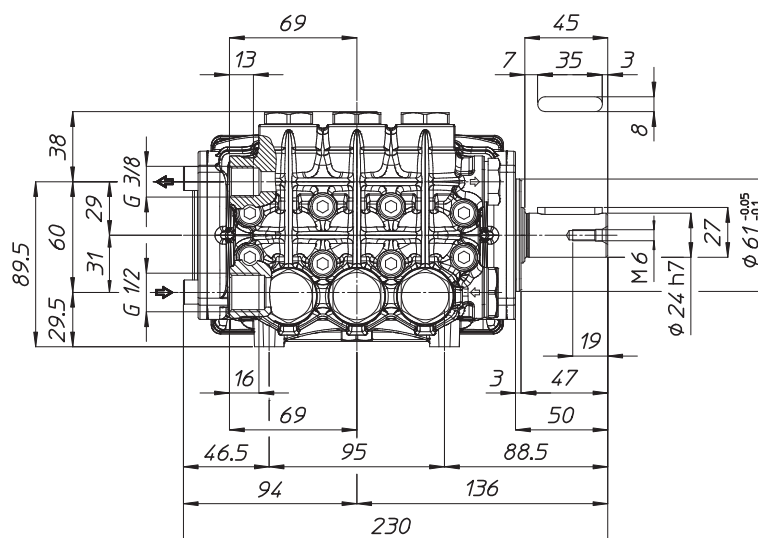
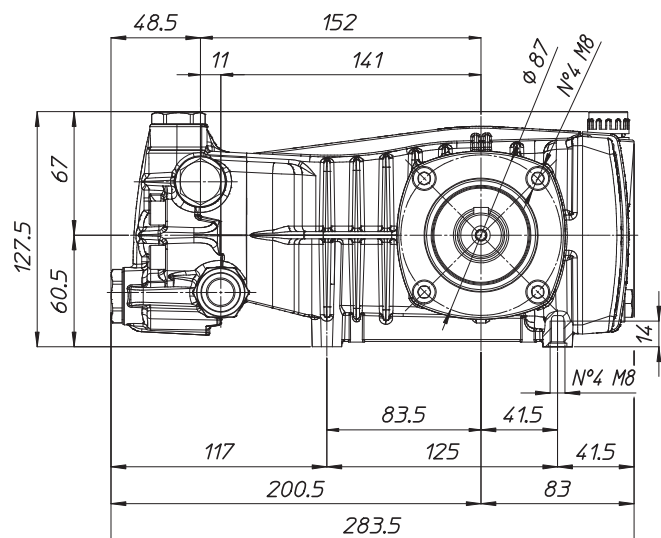
^E Parts in 6017.N7 (Complete Manifold Assembly).

WEIGHT LUBRICATION

23 LBS
15.4 OZ UDOR LUBE

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

BK SERIES PUMPS - 24MM SOLID SHAFT



TORQUE SPECS

Ref.	Description	Ft./lb.	Nm	Loctite®
1	Head Bolts	19	25	-
2	Valve Caps	75	100	243
3	Inlet Cap	75	100	243
4	Outlet Cap	60	80	243
5	Bearing Flange Bolts	19	25	-
6	Rear Cover Bolts	19	25	-
7	Connecting Rod Bolts	9	11	243
8	Plunger Bolts	11	15	270
9	Valve Cover Bolts	-	-	-
10	Oil Drain Plug	19	25	-

