



# HYDROREX

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13360 TELGE RD #606 CYPRESS TEXAS 77429 USA

## CSS REX SERIES HYDROSTATIC UNIT

AIR & HAND OPERATED



**Exterior dimensions**

L22.8" x W18.3" x H11.7"  
L579mm x W465mm x H297mm

**Interior dimensions**

L20.5" x W15.3" x H10.1"  
L521mm x W389mm x H257mm

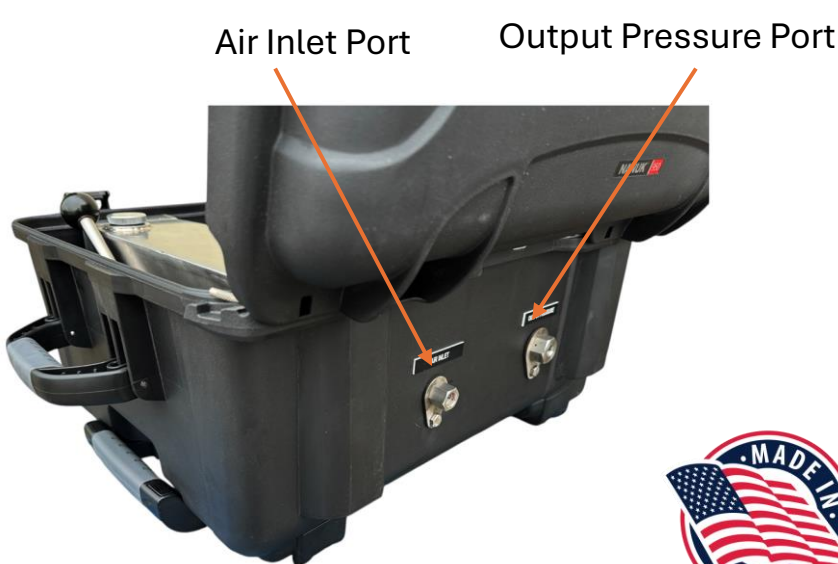
**Calibration  
&  
Hydrostatic**

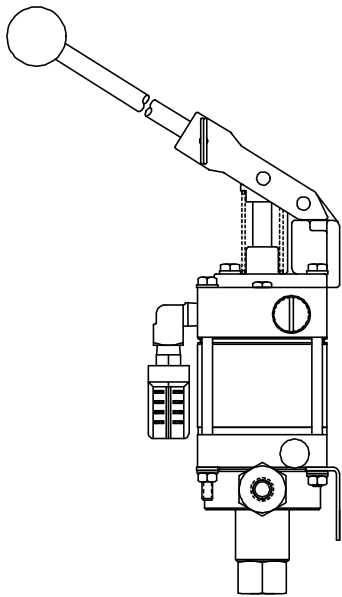
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[www.hydrorex.com](http://www.hydrorex.com)  
[www.pressureshop.com](http://www.pressureshop.com)



- Stainless Liquid Tank 8 Liters
- Stainless Control Plate
- Stainless Valves, Fittings & Tubing
- Stainless Gauges 4" Dial
- Air and Hand driven pump
- Dimensions 21" x 18" x 9"
- Weight: 45 lbs
- Case: Storm Rugged Weatherproof





# CSS REX SERIES

CSS-Rex Serie is a liquid pressure system with fluids tank ideal for calibrating and pressure testing. Is pre-lubricated at factory and therefore does not require a lubricator in the air drive supply line.

**LOW, MEDIUM & HIGH PRESSURE:** Is a pneumatic drive system, available in eight models to pressure up to 20,000 Psi (1379 Bar). Compatible with all hydraulic fluids, water, distilled and di-ionized water, solvents, mild chemicals, glycol, liquefied CO2 and many more.

Requires 15 – 60 Psi air drive pressure to operate, the CSS series pump is self priming for immediate operation.

Hand pump attachment allows for manual operation when shop air is not available or **for precision pressure control.**

Alternative gases that can drive the pump include nitrogen vapor from liquefied gas or natural gas pipeline, thus offering a completely self-contained package independent of external power source.

Made in USA with highest quality components for low operational cost.

**For pressure, flow rates and ports size for each model, please download the model datasheet below the product on the web [www.hydrorex.com](http://www.hydrorex.com)**

**Components: USA Brands, Parker, Quartz-USA, SC Hydraulic, Mc Daniels**

- Pelican Case: In a lightweight yet rugged mobile weatherproof case.
- Stainless Steel Liquid Tank 2 gallons ( 8 Liters)
- All Stainless steel, valves, tubing, adapters & hardware
- Requires 15 – 60 Psi air pressure to operate
- Dry Lube pump does not require and air lubricator
- Pressure output ports will be according to ranges of pressure model, HP, MP, or NPT

**Dimensions:** 23" Length, 11" High, 18" Width

**Weight:** 50 Lbs

**Shipping Dimensions:** 24" L x 16" H x 20" W

**Shipping Weight:** 65 Lbs

HS Code: 8413.50.5000



## Pressure Operation & Flows

Dash Number	CSS Series Models	Max Pressure PSI	Displacement Per Cycle Cu. In.	Output Port		Liter Per minute	Air Operated
				Size	Thread	Flow	
-15	<b>CSS-1800REX</b>	1800	.27	1/4"	FNPT	2 LPM	15 -100 Psi
-25	<b>CSS-2700REX</b>	2700	.18	1/4"	FNPT	1 LPM	15 -100 Psi
-35	<b>CSS-3500REX</b>	3500	.14	1/4"	FNPT	0.80 LPM	15 -100 Psi
-45	<b>CSS-4800REX</b>	4800	.10	1/4"	FNPT	0.60 LPM	15 -100 Psi
-65	<b>CSS-7000REX</b>	7000	.069	1/4"	FNPT	0.50 LPM	15 -100 Psi
-105	<b>CSS-11000REX</b>	11000	.044	1/4"	FNPT	0.30 LPM	15 -100 Psi
-125	<b>CSS-13000REX</b>	13000	.044	1/4"	FNPT	0.20 LPM	15 -100 Psi
-195	<b>CSS-20000REX</b>	24000	.038	1/4"	9/16-18	0.18 LPM	15 -100 Psi

When operating from 0 to rated hydraulic pressure, air consumption will be approximately 12-18 scfm of free air at 100 psi output. At lower air pressures and higher hydraulic pressures air consumption will be reduced proportionately to flow rates indicated

## MANUFACTURER'S OPERATING INSTRUCTIONS

SERIES

### Model CSS

### AIR & HAND HYDROSTATIC / CALIBRATION

Prior to testing any high pressure line, please check all connections, hoses and fittings to assure that they are properly tightened and in good working order. No frays, tears, or cuts.

REQUIRED: Air compressor capable of 60-100 PSI, up to

Liquids: Water, Hydraulic, Oils, Glycol and many more.



### CONNECTING THE PUMP

1. Connect your output pressure hose. Position the Test Pump within 8 feet of test environment.
2. Connect the air line hose from the compressor to the inlet port on the CSS unit.

**NOTE: YOUR AIR COMPRESSOR NEED TO HAVE A AIR FILTER ON AND SHOULD BE DRAINED OF ANY WATER OR DIRT PARTICLES BEFORE, AND AFTER USE. Drain valve is located on the bottom of the filter body of your air filter.**

### OPERATING THE PUMP

Hand pump attachment allows for manual operation shop for precision pressure control.

1. Fill up the liquid reservoir tank
2. Close the pressure release/bleed valve on the control panel.
3. Start your shop air compressor. Once the compressor has reached operating pressure 100 psi (This will give maximum operating output)
4. Open the air ball valve on console slowly, which will allow the air to flow to the regulator.
5. Adjust the air regulator, Pull up on the black knob and turn clockwise to increase pressure, or counter-clockwise to decrease pressure. Once the inlet air pressure is set, push down on the knob to lock it in place.
6. Start turning regulator clockwise, **pressure will begin building on the output pressure gauge as soon as air flows.** When desired test pressure has been met, close the outlet Isolation needle valve to isolate test environment.
  - To turn off pump while testing, turn regulator counter clockwise and decrease or stop air flow, or disconnect air compressor supply.

**- If a pressure drop is indicated on gauge, check the following:**

- a. Output hose connection at pump.
- b. Output hose connection at test line.
- c. Leaking test line or air in the test environment.

If the pressure gauge remains constant, turn off air ball valve and monitor gauge for your prescribed test time.

7. When test is complete, open the high pressure release/bleed valve located on control panel, Bleed off the liquid pressure return to tank.

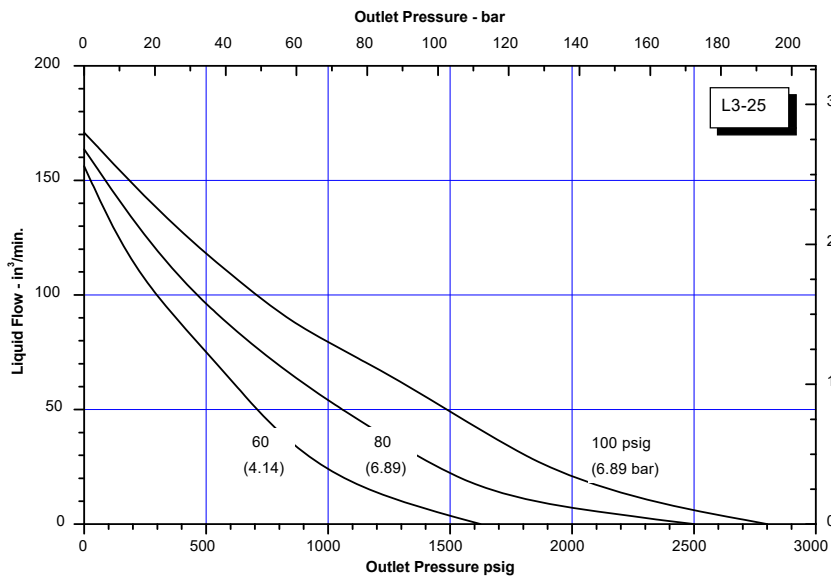
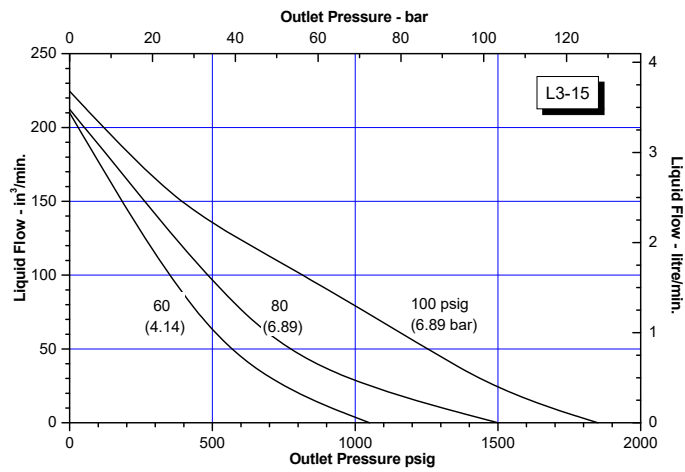
Repeat the above steps for multiple lines. Be sure the air pressure gauge reads zero before disconnecting the air line from the pump.



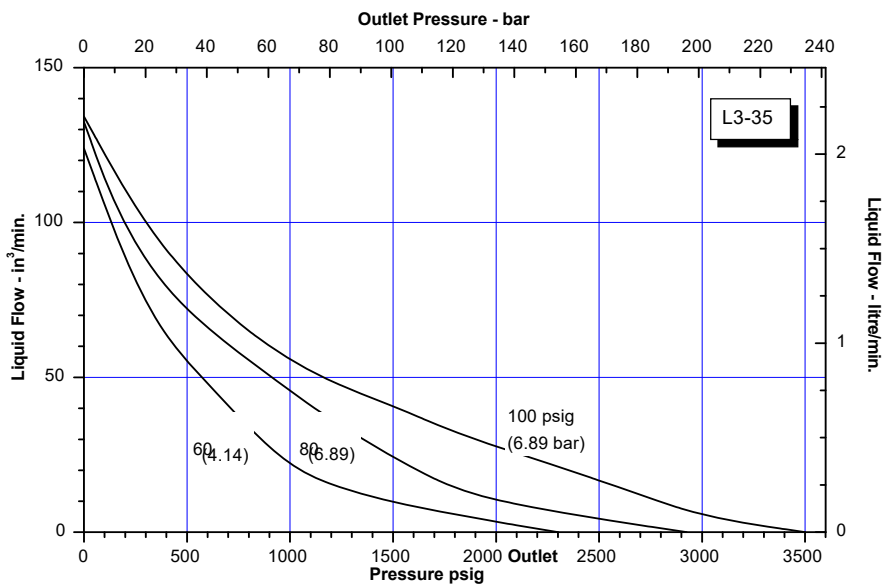
# CSS REX SERIES

## APPROXIMATE RATE OF DISCHARGE

CSS-1800REX



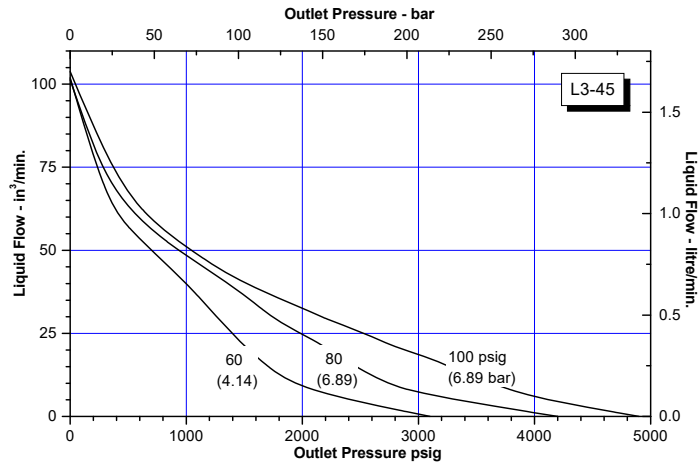
CSS-2700REX



CSS-3500REX

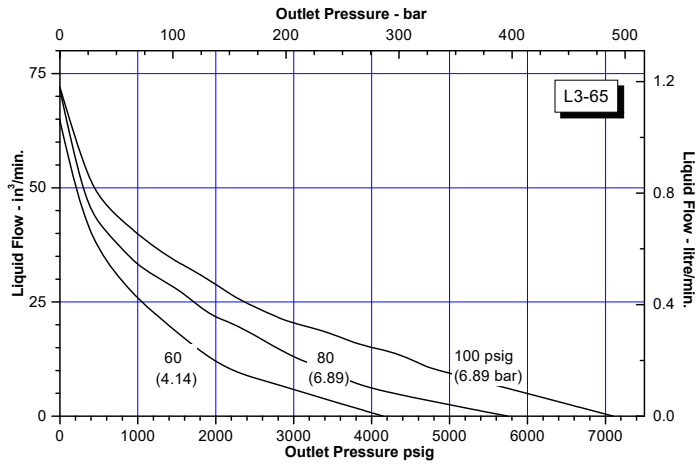
# CSS REX SERIES

## APPROXIMATE RATE OF DISCHARGE

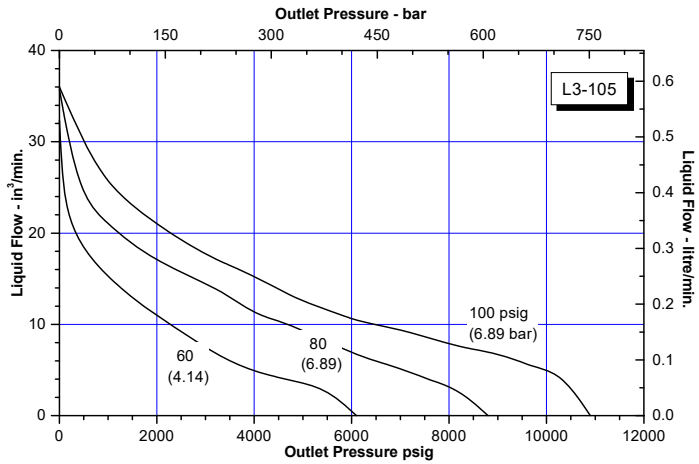


CSS-4800REX

CSS-7000REX



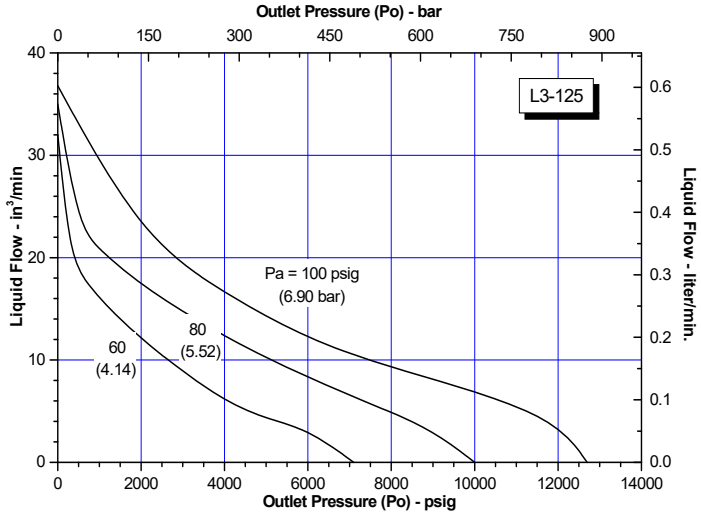
CSS-11000REX



# CSS REX SERIES

## APPROXIMATE RATE OF DISCHARGE

CSS-13000REX



CSS-20000REX

