

SE Hydraulic
Engineering

HYDROREX 



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ECM-REX SERIES

**ALL STAINLESS ANTICORROSIVE
THE PORTABLE AND LIGHTWIGHT HYDROSTATIC**

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www.hydrorex.com
www.pressureshop.com

ECM REX Series

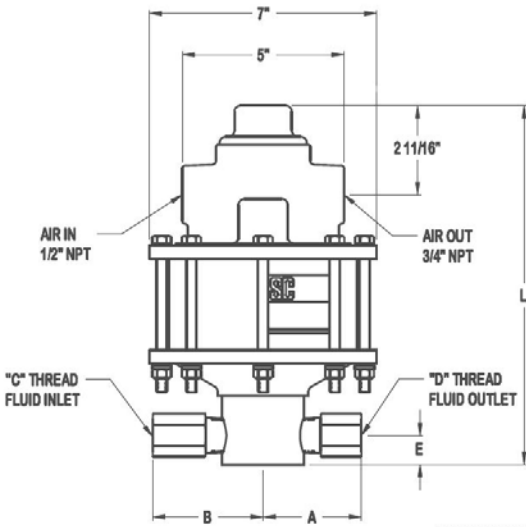
All Stainless "The Compact & Complete Unit" lightweight, portable and easy to operate.

LOW, MEDIUM & HIGH PRESSURE: Is a pneumatic drive system, fifteen models are available with pressures up to 56,000 psig. ideal for testing in small confined spaces and remote locations. Designed for liquids pressure on all industries including Oil & Gas for use with any liquid such water, glycol, hydraulic, oils and more.

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

When operating from 0 to rated hydraulic pressure, air consumption will be approximately 18-2 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.

The ECM-REX Series "Dry Lube" pump does not require an air line lubricator

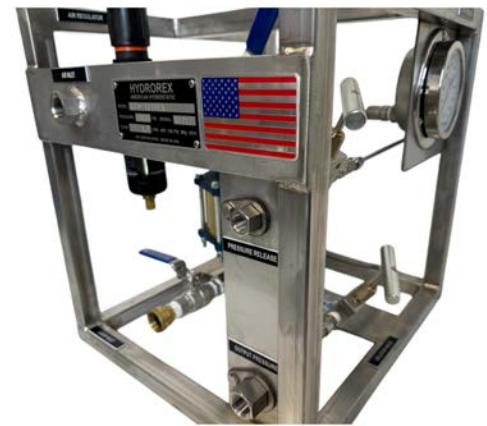


For pressure, flow rates and ports size for each model, please download the model datasheet below the product on the web www.hydrorex.com

Components: USA Brands, Parker, Superlok, SC Hydraulic, Spir Star

- Stainless structure: Heavy duty 1" tubing and 1/8" control plate
- All Stainless steel, valves, tubing, fittings & hardware
- Requires 60 – 100 psi air pressure to operate

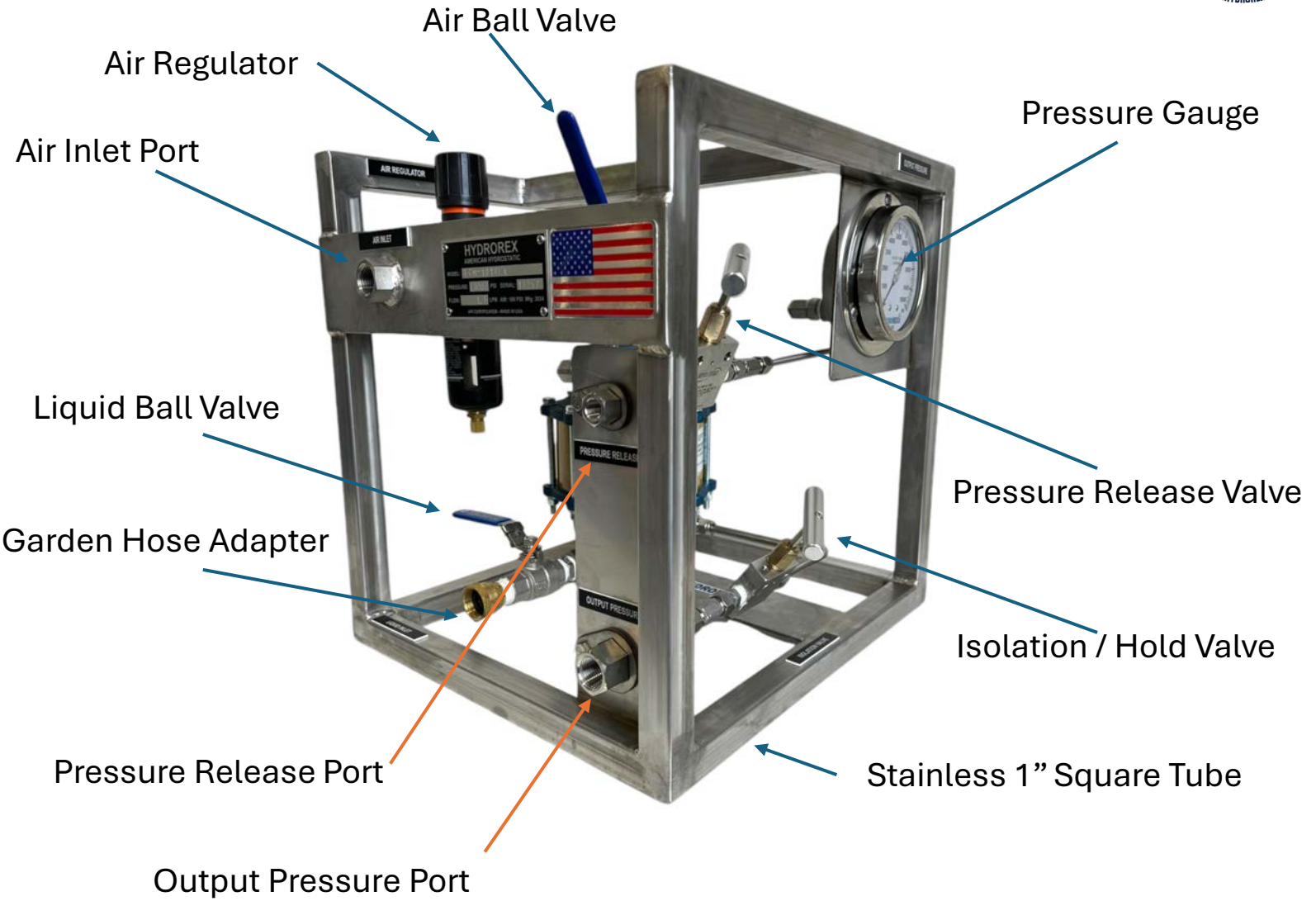
Dimensions: 16" Length, 16" High, 14" Width
Weight: 35 Lbs
Shipping Dimensions: 18"L x 18" H x 18" W
Shipping Weight: 45 Lbs
HS Code: 8413.50.5000



*Coned and Threaded High Pressure Connection for 1/4" O.D. Tubing

Measurements & Approximate Air to Hydraulic Pressure Ratios – Static Conditions

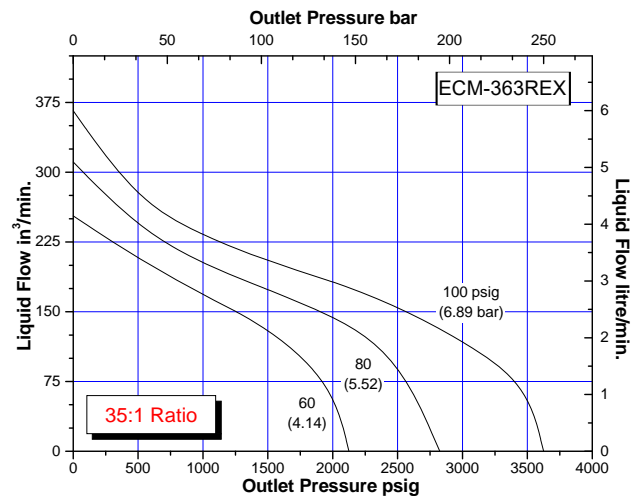
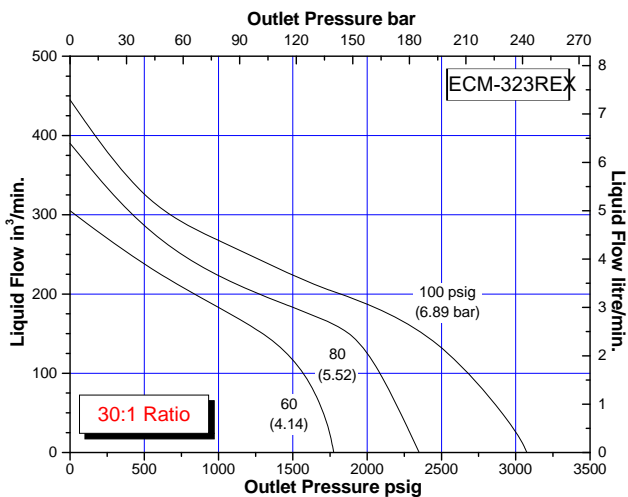
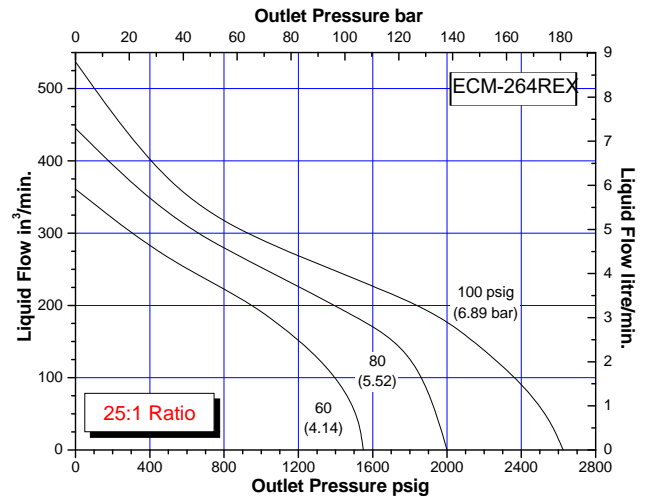
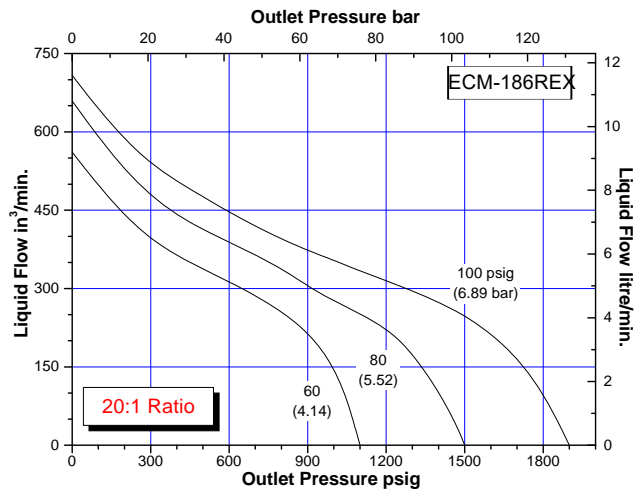
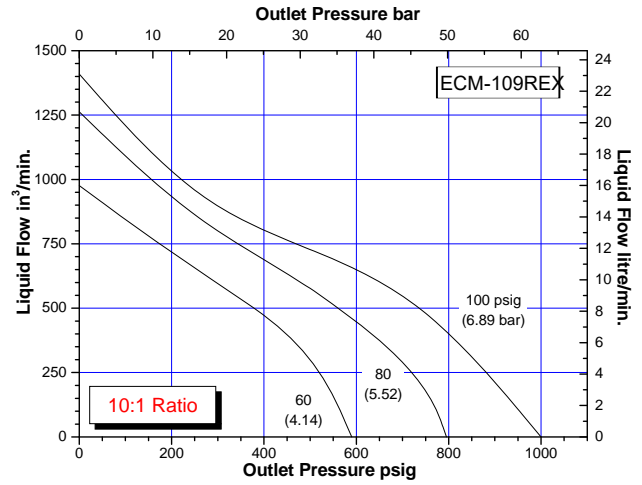
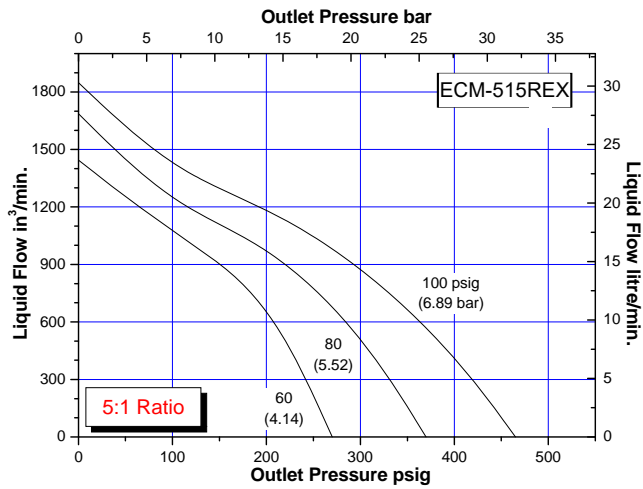
Pressure Ratio	ECM-REX Series Model	Hydraulic Piston Diameter (in)	Hydraulic Piston Area (in ²)	Volume per Stroke (in ³)	Air Pressure (PSI)									
					10	20	30	40	50	60	70	80	90	100
5	ECM-515REX	2.3750	4.430	5.540	30	75	130	175	220	270	320	370	415	00
10	ECM-109REX	1.6250	2.070	2.590	80	180	285	385	490	590	690	795	900	1000
20	ECM-186REX	1.1875	1.110	1.390	145	330	525	700	925	1100	1300	1500	1700	1900
25	ECM-264REX	1.0000	0.785	0.981	200	475	750	1000	1300	1550	1800	2000	2350	2625
30	ECM-323REX	0.9375	0.689	0.861	225	525	875	1150	1500	1775	2050	2350	2700	3075
35	ECM-363REX	0.8750	0.601	0.751	250	600	1000	1400	1775	2125	2475	2825	3200	3625
55	ECM-602REX	0.6875	0.371	0.464	400	1000	1700	2200	2900	3400	4000	4600	5200	6000
70	ECM-701REX	0.6250	0.307	0.384	500	1175	1950	2600	3350	4100	4900	5600	6350	7000
85	ECM-901REX	0.5625	0.248	0.310	800	1700	2600	3400	4400	5100	6000	6900	7800	8600
105	ECM-101REX	0.5000	0.196	0.245	900	2000	3150	4200	5400	6400	7450	8500	9700	10000
140	ECM-148REX	0.4375	0.150	0.188	1100	2400	3900	5400	6900	8300	9800	11200	12600	14000
195	ECM-206REX	0.3750	0.110	0.138	1400	3250	5250	7250	9250	11250	13250	15000	17000	1 000
280	ECM-284REX	0.3125	0.077	0.096	2250	4000	7750	10500	13500	16250	18750	21500	24500	2 000
440**	ECM-402REX	0.2500	0.049	0.061	5000	8000	12500	16500	21000	25500	30000	34000	38000	40000





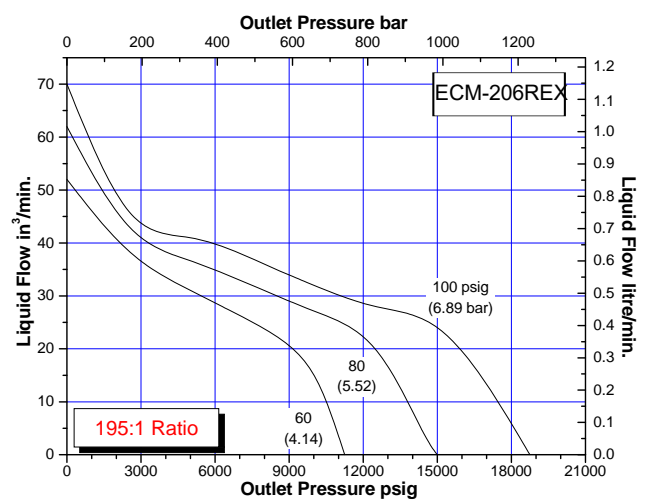
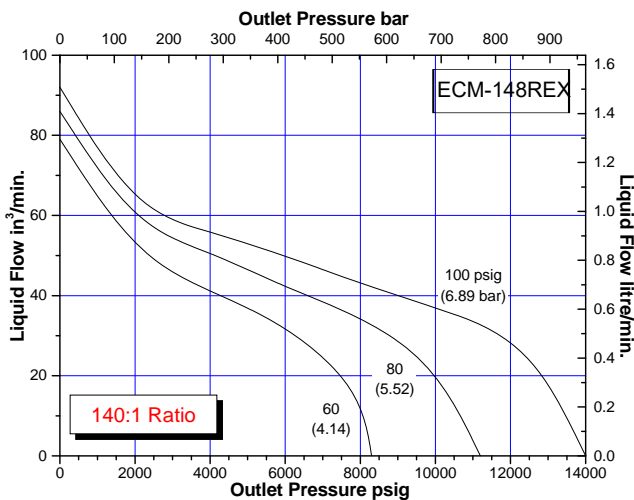
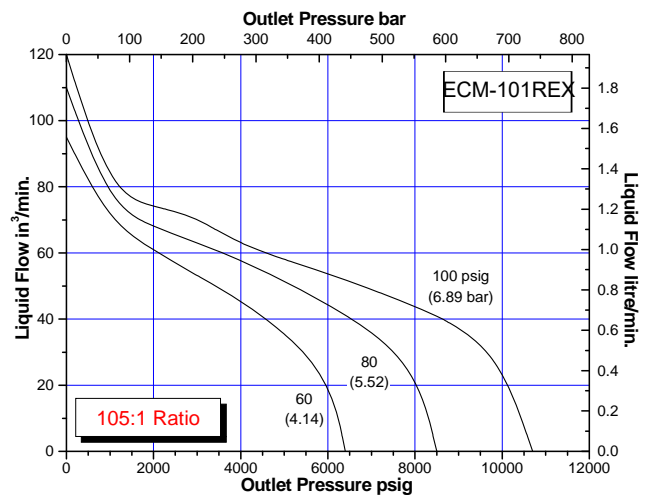
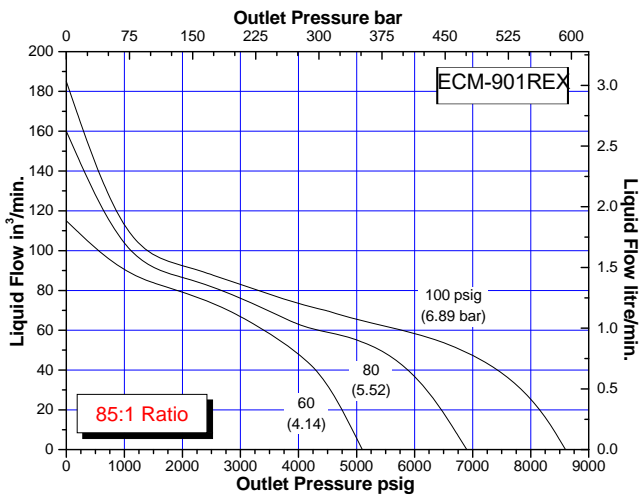
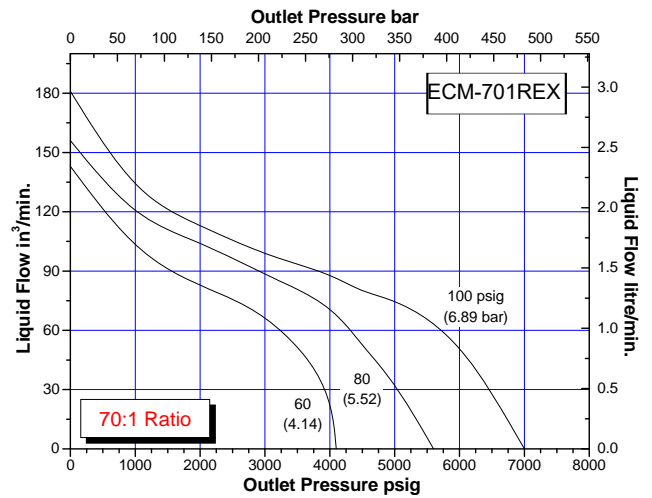
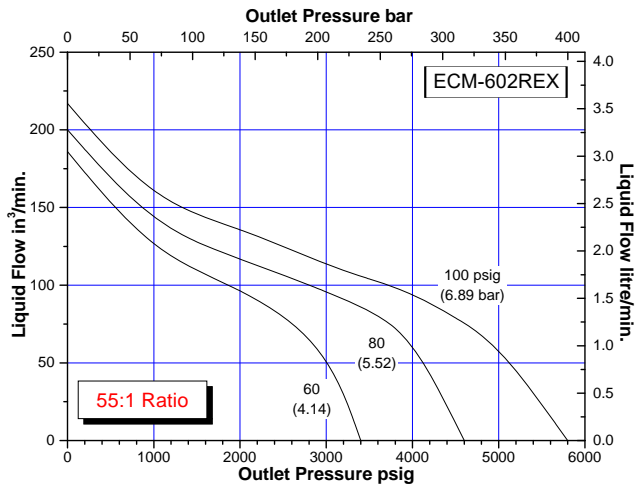
ECM REX SERIES

APPROXIMATE RATE OF DISCHARGE



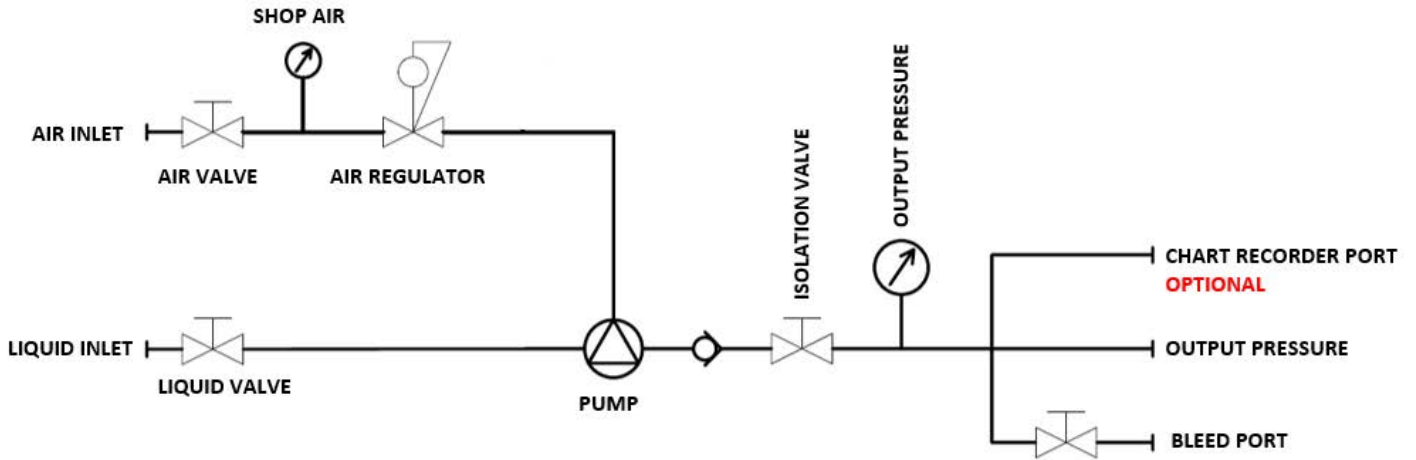
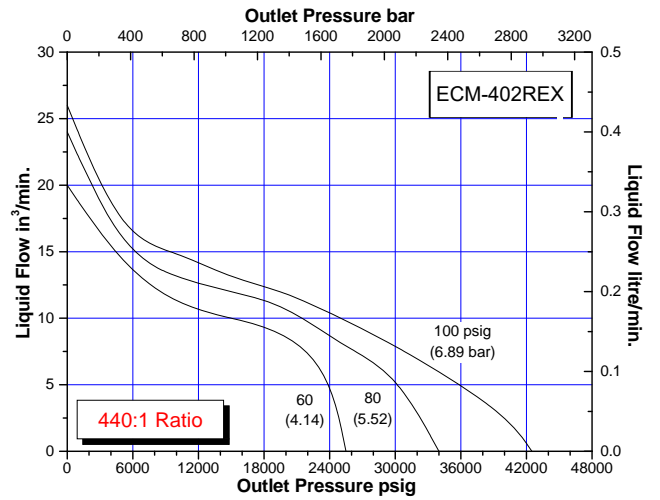
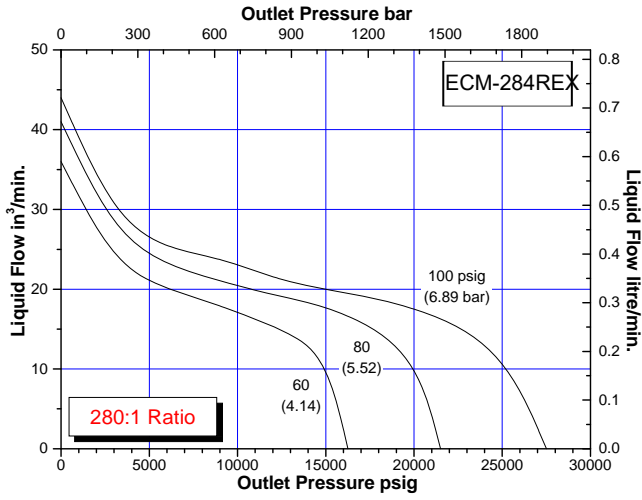
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MANUFACTURER'S OPERATING INSTRUCTIONS

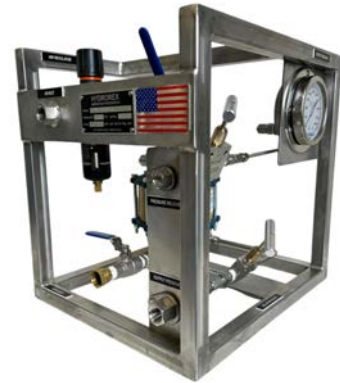
SERIES

• Serie ECM-REX

PNEUMATIC HYDROSTATIC TEST PUMPS

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.

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 from your shop compressor to the inlet port on the unit.

NOTE: AIR FILTER SHOULD BE DRAINED OF ANY WATER OR DIRT PARTICLES BEFORE, AND AFTER USE. Drain valve is located on the bottom of the filter body. (this filter is located inside the unit at the air inlet port)

OPERATING THE PUMP

1. Open your liquid inlet ball valve
2. Open the pressure bleed valve on your test line to bleed off excess air.
3. Start the your air shop compressor.
4. Once the compressor has reached operating pressure 100 psi (This will give maximum operating output) open the air ball valve slowly, which will allow the air to flow to the EC-REX system.
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 as soon as air flows.
7. When desired test pressure has been met, close the Isolation outlet 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, 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.
8. When you are done with the hydrostatic pressure test run, release the pressure open slowly the needle valve on control plate (bleed valve).

If the pressure gauge remains constant, turn off air ball valve and monitor gauge for your prescribed test time. When test is complete, open the high pressure return/bleeder valve located on control panel, Bleed off the liquid pressure. Repeat the above steps for multiple lines. Be sure the air pressure gauge reads zero before disconnecting the air line from the pump.

Liquid Pump Cut-a-way

