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DX REX SERIES HIGH & LOW

DUAL PRESSURE PUMPS



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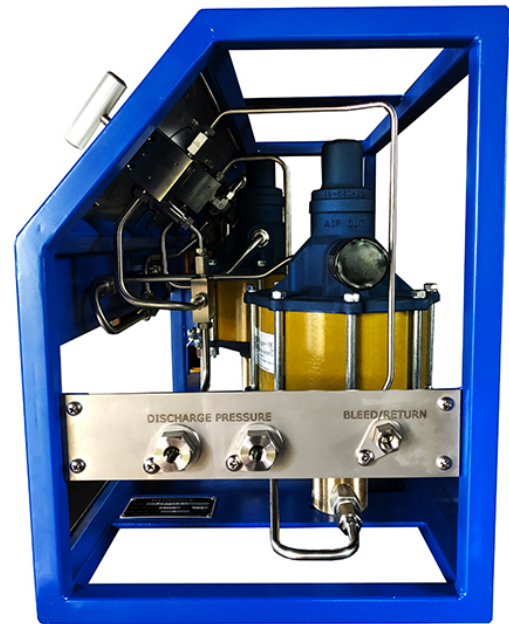
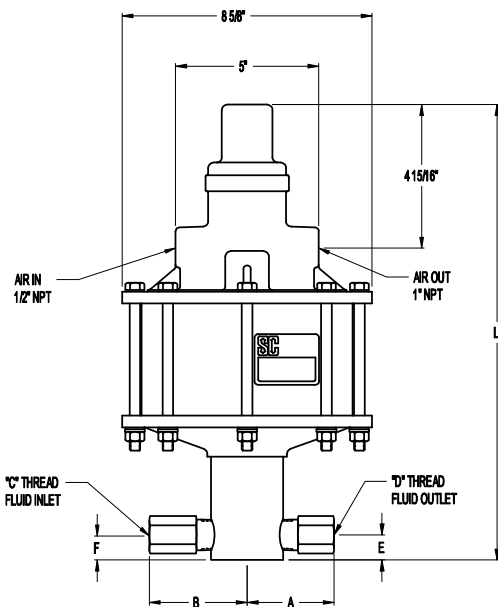
DX REX SERIES

Custom your High and Low pressure system based on your needs to meet your specific test requirements.

Select two of the pumps from thirteen models are available with pressures up to 65,000 psig.

When operating from 0 to rated hydraulic pressure, air consumption will be approximately 18-56 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 DX-REX Series "Dry Lube" pump does not require an air line lubricator

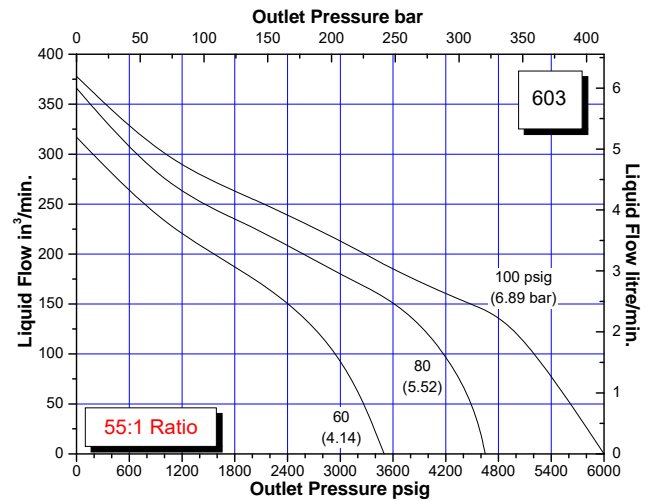
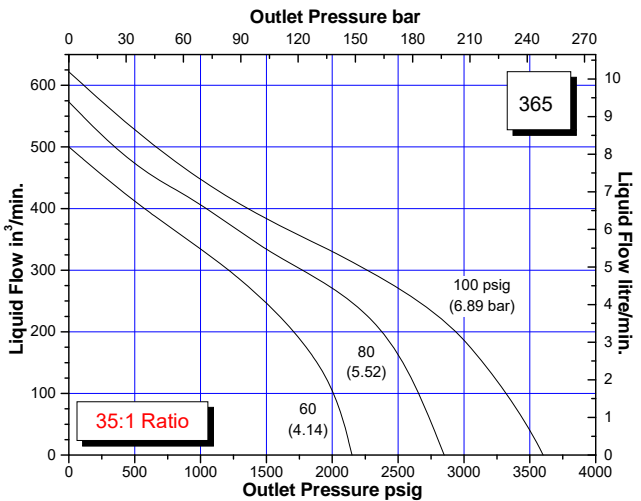
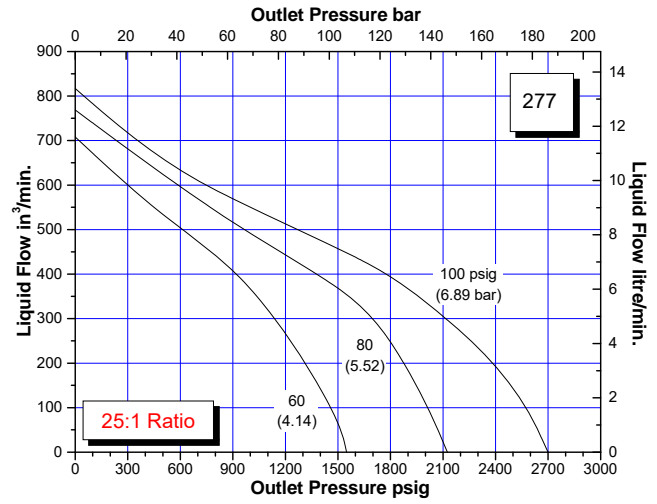
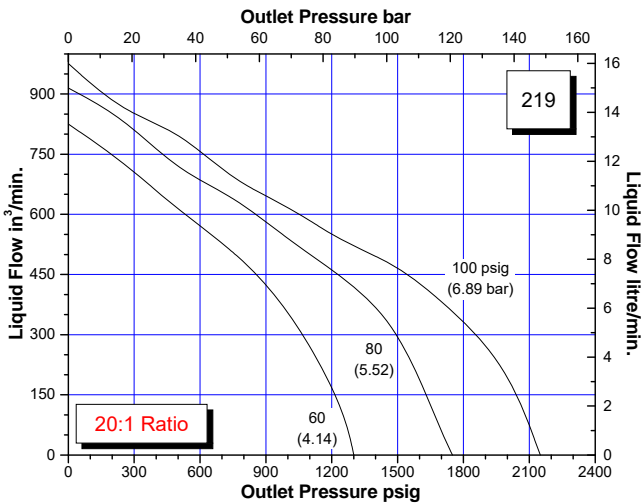
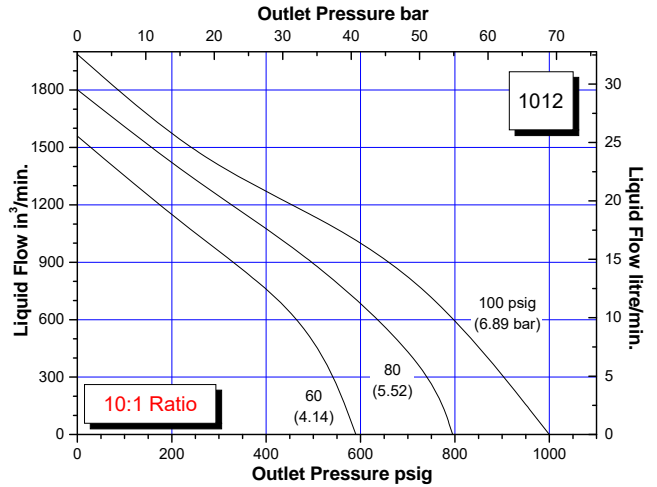
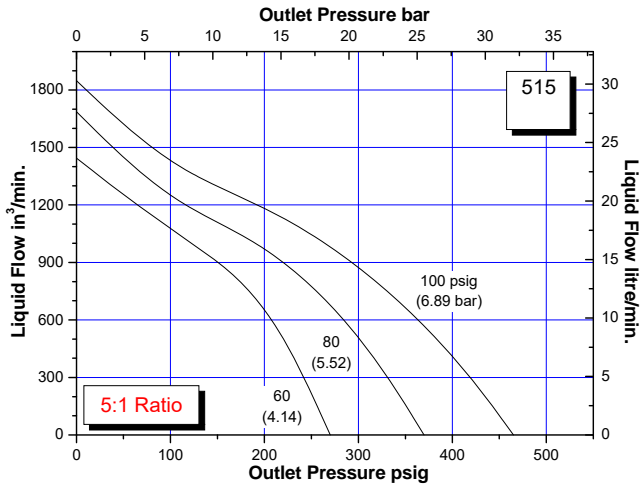


Measurements & Approximate Air to Hydraulic Pressure

Pressure Ratio	Pumps Available	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	515	2.3750	4.430	5.540	30	75	130	175	220	370	320	370	415	500
10	1012	2.125	3.560	8.900	85	185	285	390	490	590	690	795	900	1000
20	219	1.438	1.620	4.050	165	425	650	875	1075	1300	1550	1750	1950	2150
25	277	1.315	1.350	3.380	180	450	725	1000	1300	1550	1850	2125	2400	2700
35	365	1.125	0.994	2.490	250	625	1025	1400	1800	2150	2500	2850	3250	3600
55	603	0.875	0.601	1.500	450	1050	1700	2275	2900	3500	4100	4650	5200	6000
95	102	0.688	0.371	0.928	750	1750	2800	3700	4750	5900	6875	7700	8750	9700
145	151	0.563	0.249	0.623	1100	2600	4200	5550	7100	8500	10000	11500	12950	14400
180	181	0.500	0.196	0.490	1500	3200	5200	7100	9000	10800	12500	14500	16300	18000
240	251	0.438	0.150	0.375	1900	4400	6900	9100	11600	14000	16400	18800	21300	23700
330 **	306 **	0.375	0.110	0.275	3000	6000	9500	12600	16000	19100	22300	25600	29000	30000
460 **	404 **	0.313	0.077	0.193	4000	8800	13700	18000	22500	27000	31500	36500	41400	40000
740 **	602 **	0.250	0.049	0.123	8000	15000	23000	29700	37200	45000	52500	59200	60000	***

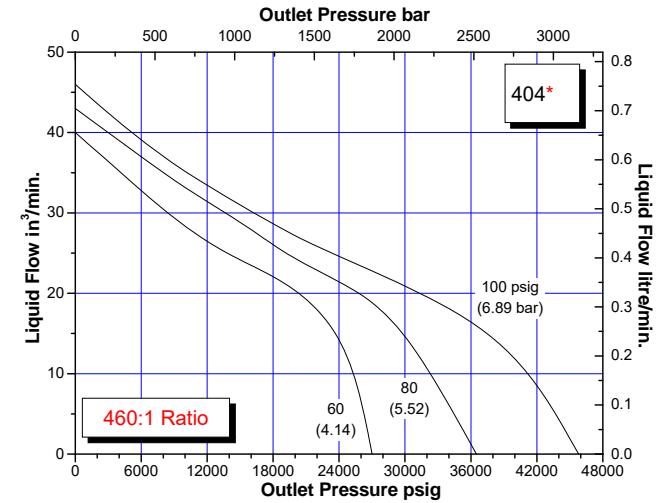
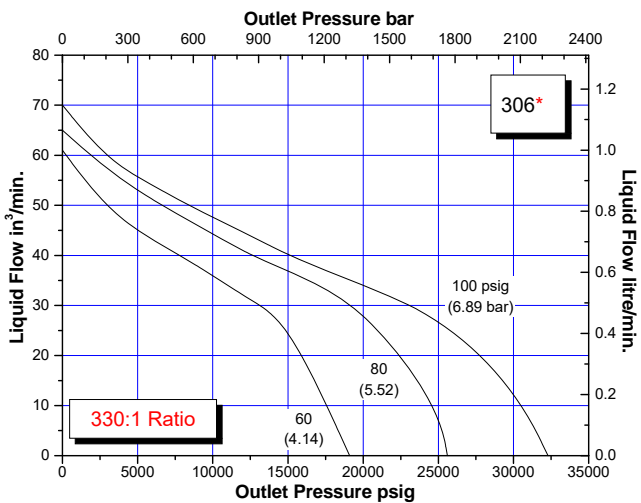
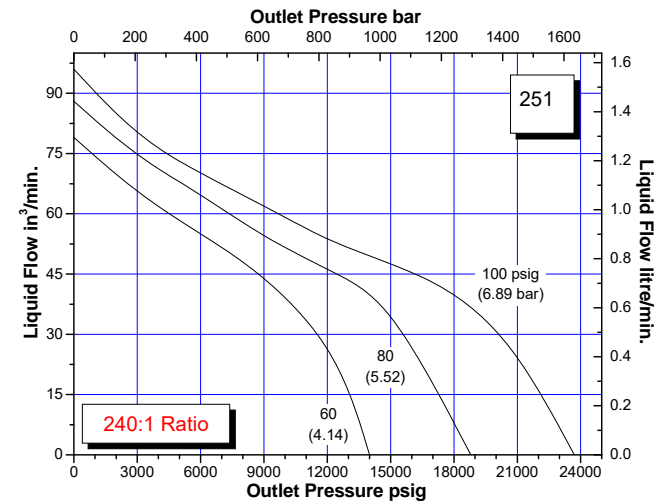
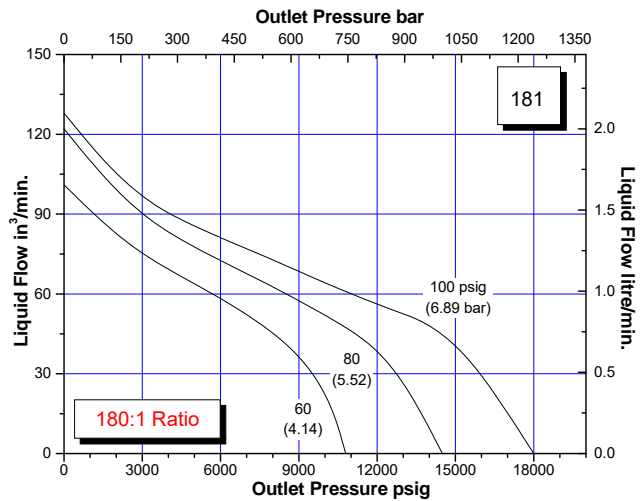
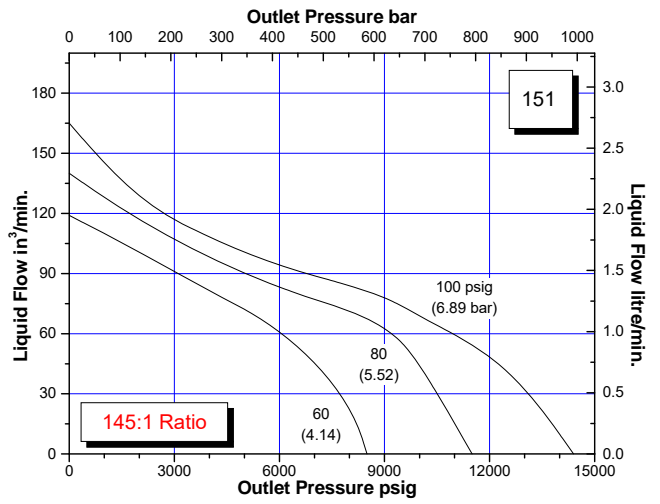
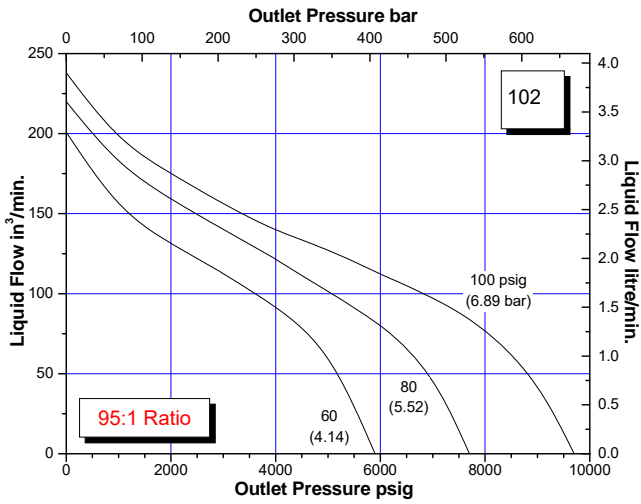
DX REX SERIES

APPROXIMATE RATE OF DISCHARGE



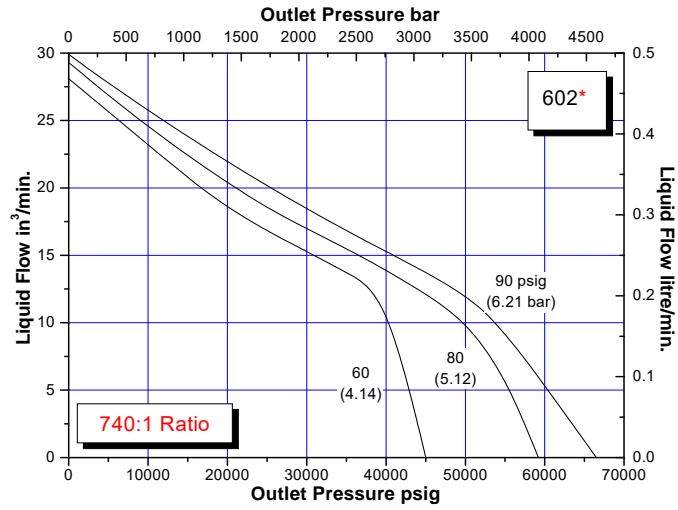
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APPROXIMATE RATE OF DISCHARGE



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APPROXIMATE RATE OF DISCHARGE





Stainless Steel Plates

Air Pump 1

Air pump 2



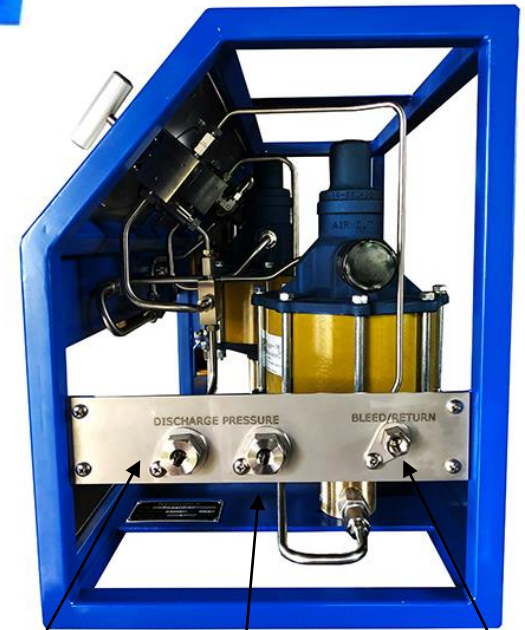
Air Inlet
*3/8 FNPT
Universal Chicago
Coupling - Optional*

Air Supply
Pressure

Liquid Inlet



Air Filter

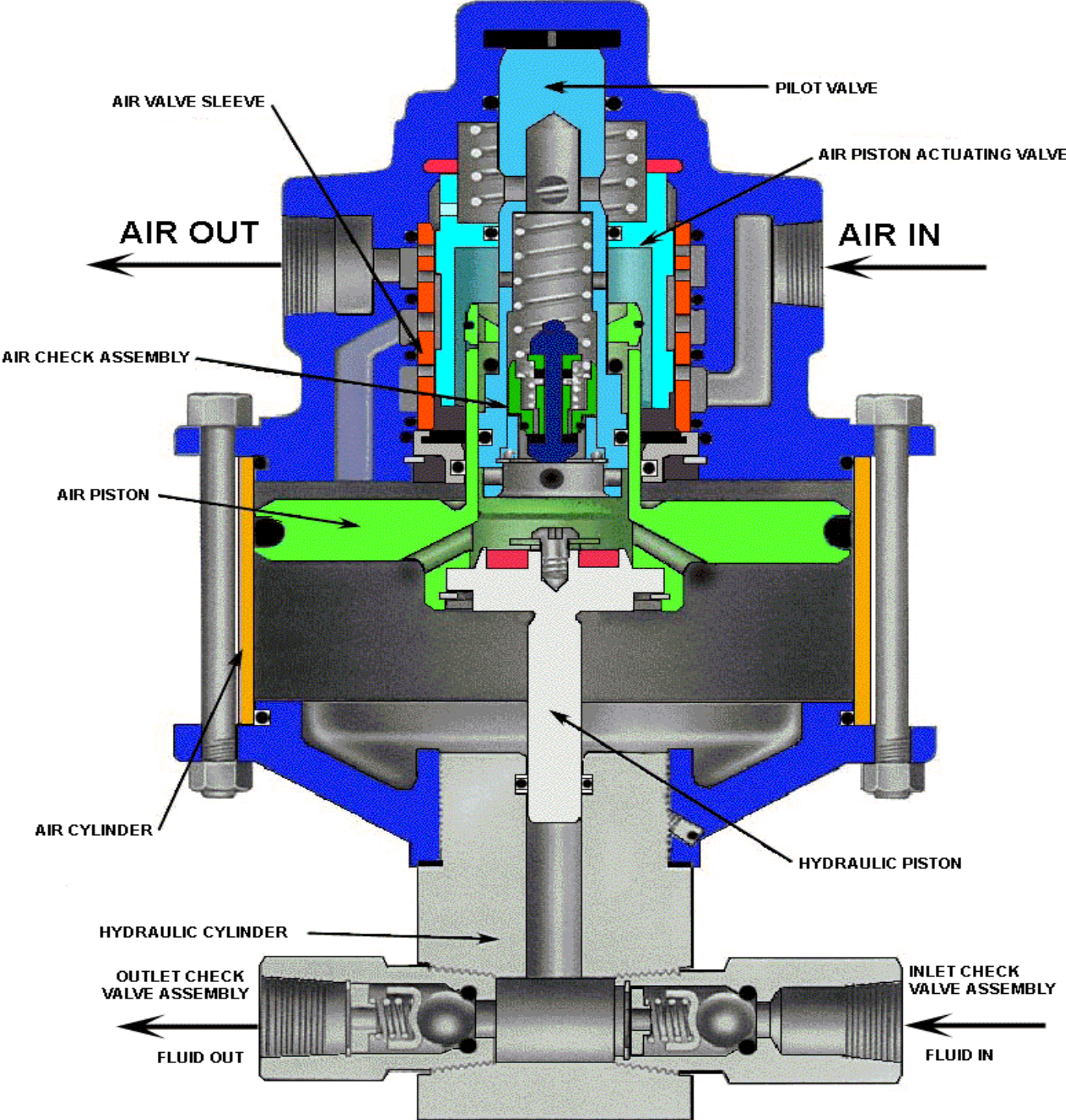


Output Pressure
*Port size will be according
to the model pump flow*

Chart Recorder

Release Pressure

Liquid Pump Cut-a-way



MANUFACTURER'S OPERATING INSTRUCTIONS

SERIES

• Serie DX-REX

HIGH LOW DUAL PRESSURE SYSTEM

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 80-120 PSI.

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



CONNECTING THE PUMP

1. Connect the output pressure hose provided. Position the Test Pump within 8 feet of test environment.
2. Connect the air line from the compressor to the inlet port on the combination regulator/air filter.

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.

OPERATING THE PUMP

1. Open your liquid inlet ball valve
2. Open the return/bleed valve on the control panel or your test line to bleed off excess air.
NOTE: this should be done several times during test cycle.
3. Start the air shop compressor and verify on the input air pressure gauge that you have 100 psi
4. Once the compressor has reached operating pressure 100 psi (This will give maximum operating output) then select the pump 1 or pump 2 air valve on front side to activate the to activate the desired pump. Open the air ball valve 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 as soon as air flows. 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.
7. When you are done with the hydrostatic pressure test run, release the pressure open slowly the needle valve on control plate (pressure release).

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 release 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.