Hydraulic Engineering

HYDROREX

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PUMPS

D2 REX SERIES

DUAL HYDROSTATIC UNIT

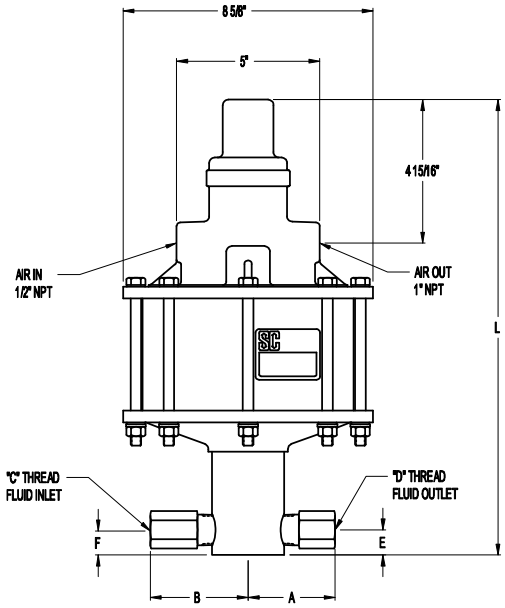
THE DOLLY CART STYLE

www.hydrorex.com
www.pressureshop.com

HYDROREX

D2-REX

MADE IN USA
WWW.HYDROREX.COM



D2 REX SERIES

Dual Pressure System “The Dolly Cart Style” is the most common standard testing equipment.

LOW, MEDIUM & HIGH PRESSURE: Is a pneumatic drive system, 9 models are available with pressures up to 24,000 psig. Assembled into robust dolly frame, ideal for portable in the field. Designed for liquids pressures 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 operatinal cost.

When operating from 0 to rated hydraulic pressure, air consumption will be approximately 20-56 scfm of free air at 115 psi output. At lower air pressures and higher hydraulic pressures air consumption will be reduced proportionately to flow rates indicated.

The D2-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, Quartz-USA, SC Hydraulic, Mc Daniels

- Structure: Heavy duty 1/8" carbon steel panels
- Assembled into robust dolly frame
- 1000 LBS Solid Rubber Tires.
- All Stainless steel, valves, tubing, fittings & hardware
- Requires 90 – 115psi air pressure to operate

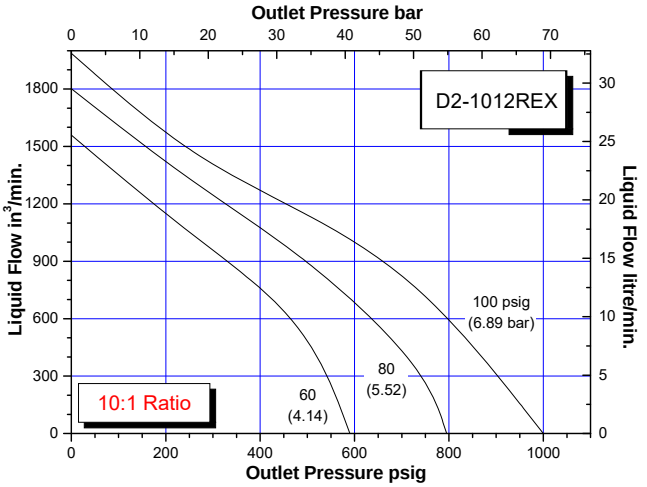
Dimensions: 20" Length, 46" High, 24" Width
Weight: 150 Lbs
Shipping Dimensions: 48"L x 24" H x 24" W
Shipping Weight: 170 Lbs
HS Code: 8413.50.50

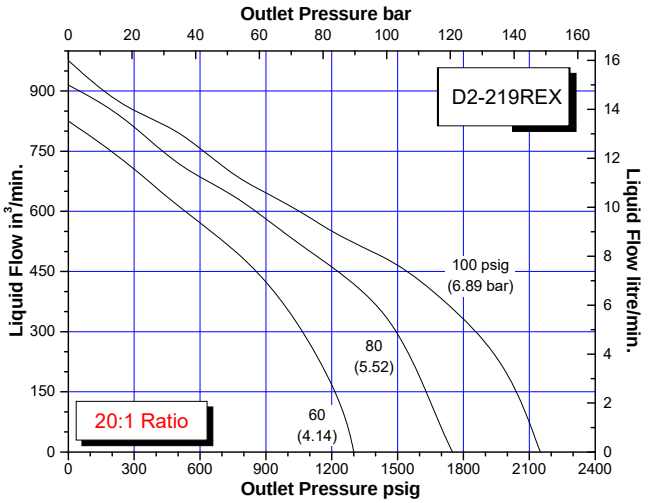
Measurements & Approximate Air to Hydraulic Pressure

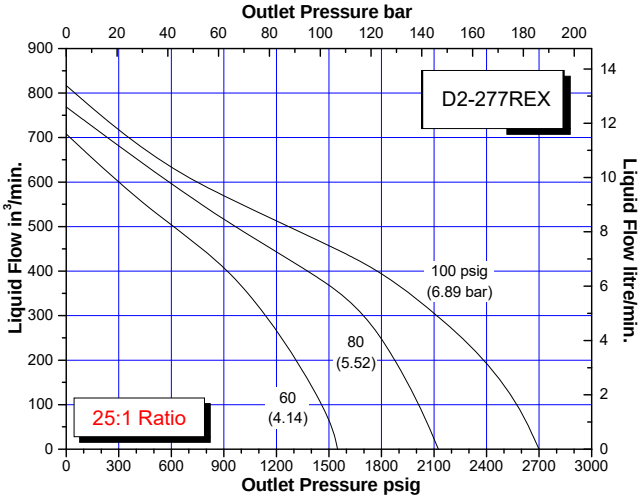
Pressure Ratio	D2 Series Model	Hydraulic Piston Diameter (in)	Hydraulic Piston Area (in^2)	Volume per Stroke (in^3)	Air Pressure (PSI)									
					10	20	30	40	50	60	70	80	90	100
10	D2-1012	2.125	3.560	8.900	85	185	285	390	490	590	690	795	900	1000
20	D2-219	1.438	1.620	4.050	165	425	650	875	1075	1300	1550	1750	1950	2150
25	D2-277	1.315	1.350	3.380	180	450	725	1000	1300	1550	1850	2125	2400	2700
35	D2-365	1.125	0.994	2.490	250	625	1025	1400	1800	2150	2500	2850	3250	3600
55	D2-603	0.875	0.601	1.500	450	1050	1700	2275	2900	3500	4100	4650	5200	6000
95	D2-982	0.688	0.371	0.928	750	1750	2800	3700	4750	5900	6875	7700	8750	9700
145	D2-151	0.563	0.249	0.623	1100	2600	4200	5550	7100	8500	10000	11500	12950	14400
180	D2-181	0.500	0.196	0.490	1500	3200	5200	7100	9000	10800	12500	14500	16300	18000
240	D2-201	0.438	0.150	0.375	1900	4400	6900	9100	11600	14000	15400	17800	19300	20000
240	D2-241	0.408	0.150	0.305	1900	4400	6900	9100	11600	14000	16400	18800	21300	23700
240	D2-326	0.378	0.120	0.275	2100	5100	7200	10300	13600	16000	21400	24800	28300	32000
240	D2-401	0.308	0.100	0.205	3100	55400	7800	11900	15600	19000	26400	28900	38000	40000

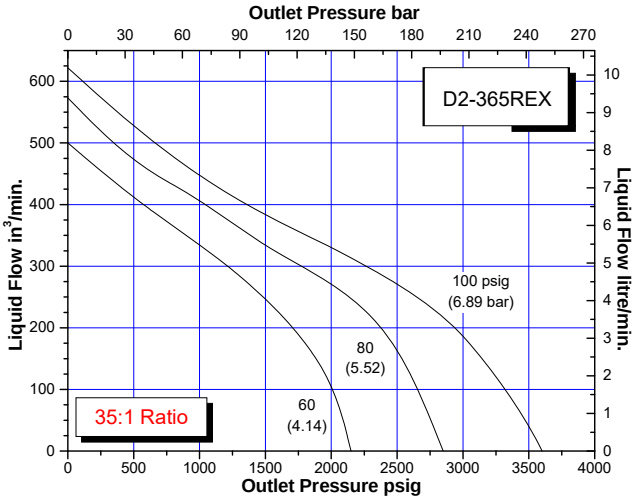
D2 REX SERIES

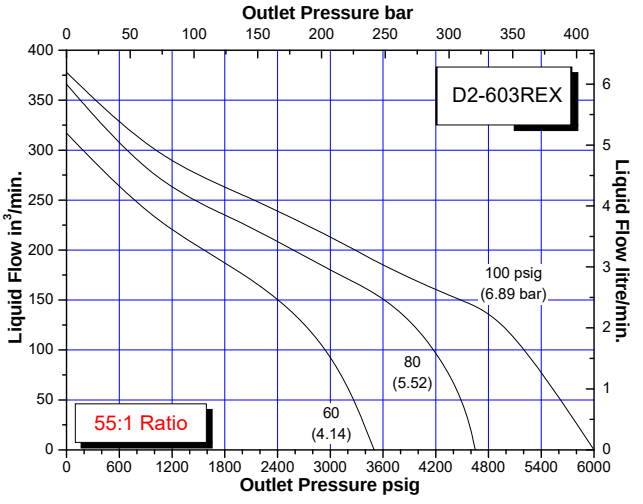
APPROXIMATE RATE OF DISCHARGE











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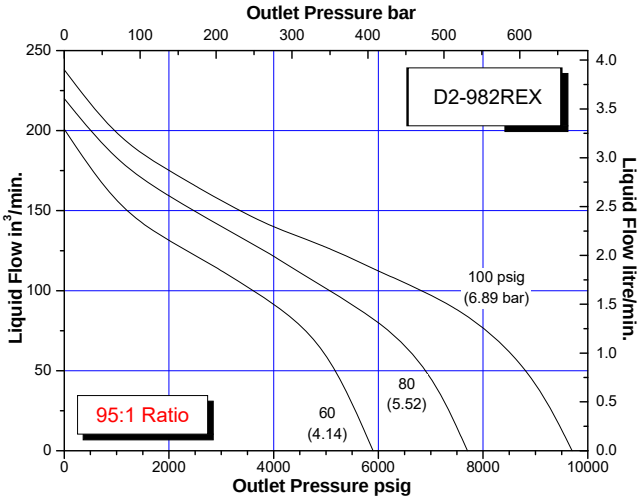
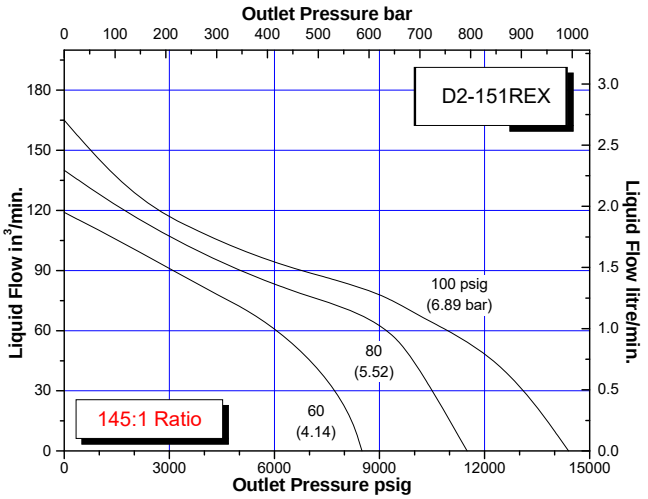
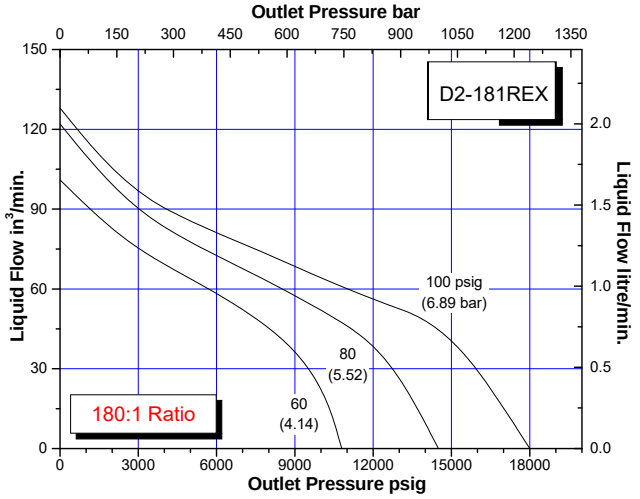
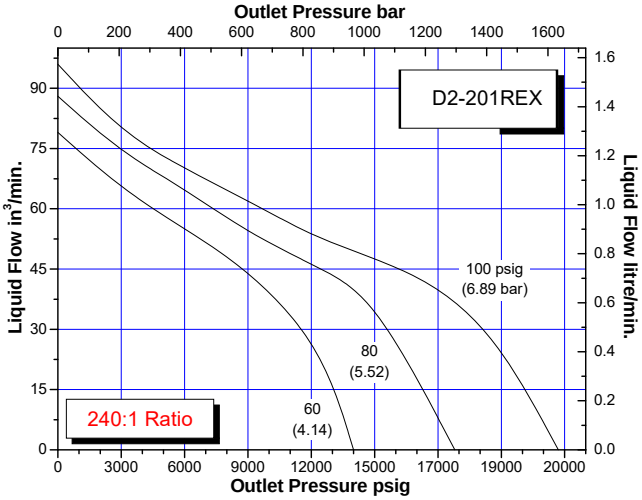
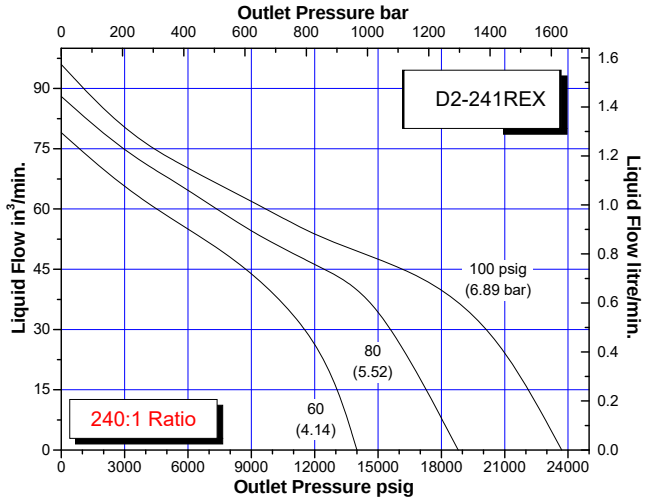
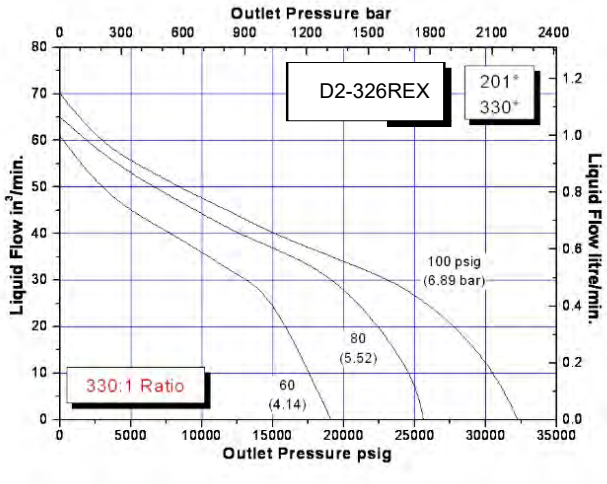




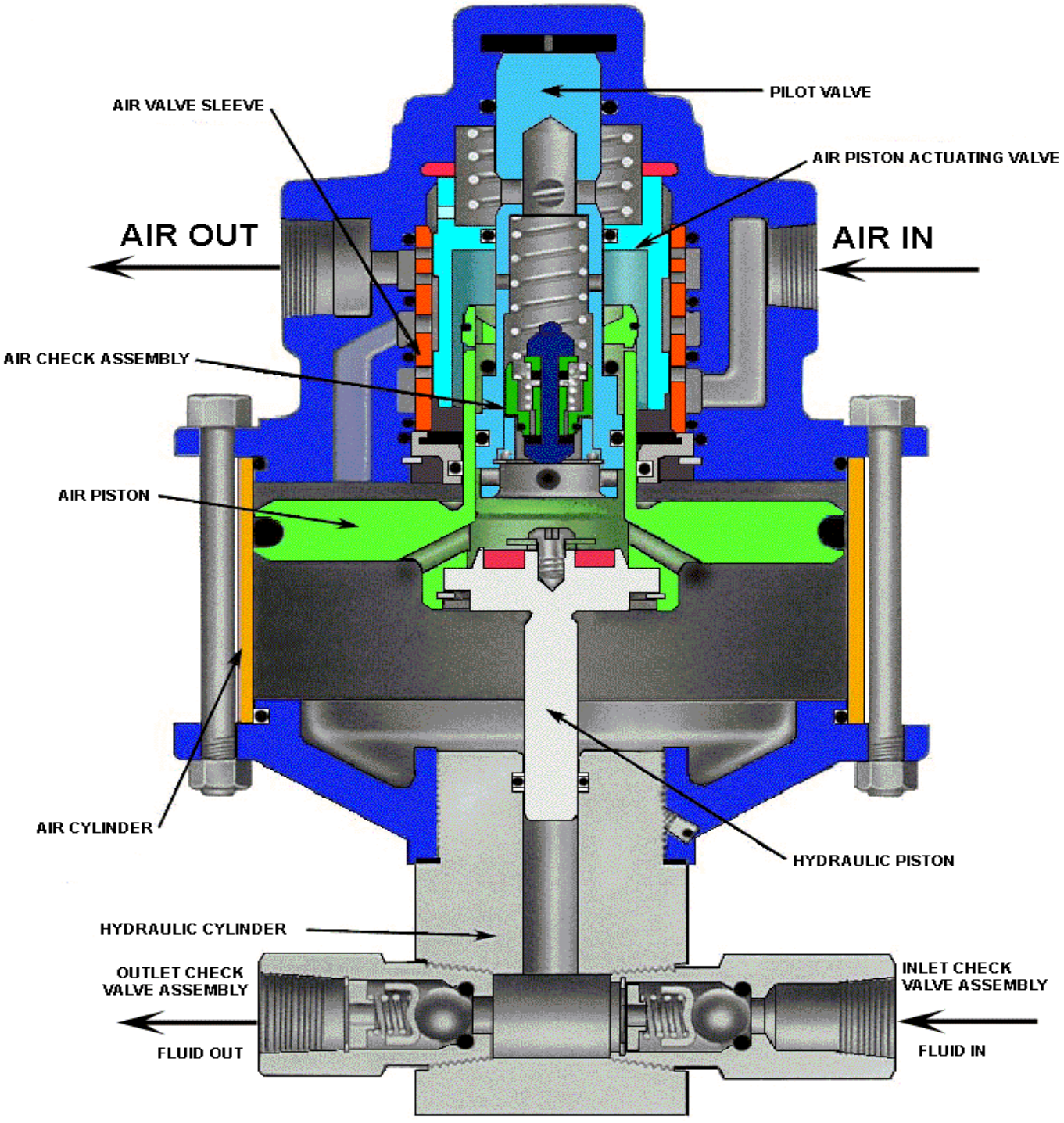








Liquid Pump Cut-a-way



HYDROREX
ECONOMIC, DURABLE, SAFE & EASY TO OPERATE
Parker
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MANUFACTURER'S OPERATING INSTRUCTIONS

SERIES **D2-REX**

PNEUMATIC HYDROSTATIC DUAL 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 100 PSI.

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

CONNECTING THE PUMP

1. Connect the outlet pressure hose provided. Place the test pump within 8 feet minimum of the test environment.
2. Connect the air line from the compressor to the inlet port on the air filter / regulator combination.
3. Connect the required water or liquid line (if your equipment is a model with integrated tank, step 3 does not apply)

NOTE: AIR FILTER SHOULD BE DRAINED OF ANY WATER OT DIRT PARTICLES BEFORE, AND AFTER USE. Drain valve is located on the bottom of the filter body.

OPERATING THE PUMP

1. Make sure the pressure relief needle valve is closed (release / bleed) and the output pressure needle valve (isolation) is open. Make sure the regulator is closed (pull up on the black knob and turn it counterclockwise to closed) --
2. Start the your air shop or machine compressor.
3. . Open the bleed valve to remove excess air. (You must install an additional valve in your component or target to which you are going to press to release air, recommended in the upper part).
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 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 you notice that liquid comes out of that valve close it and then you will be ready for the pressure operation. When desired test pressure has been met, close the 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 (bleed/return).

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 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.

D2-REX SERIES Models with additional speedy fill-up pump that will help to suction liquids quickly from any container, reservoir, tank or any other section thus filling the surface up to 150 psi, (available in flow 12 GPM) before activate the main pressure pump.

ROUGHNECK®

AIR-OPERATED DOUBLE DIAPHRAGM PUMP

OWNER'S MANUAL

Item# 41763

Item# 41769

INTRODUCTION

The diaphragm pump offers high volume delivery even at low air pressure.

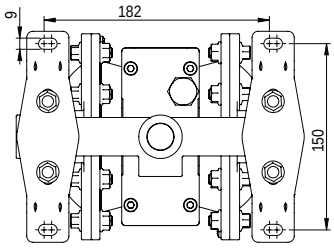
Air-operated double diaphragm pumps utilize a pressure differential in the air chambers to alternately create suction and positive fluid pressure in the fluid chambers, ball check insure a positive flow of fluid. Pump cycling will begin as air pressure is applied and it will continue to pump and keep up with the demand. It will build and maintain line pressure and will stop cycling once maximum line pressure is reached (dispensing device closed) and will resume pumping as needed.

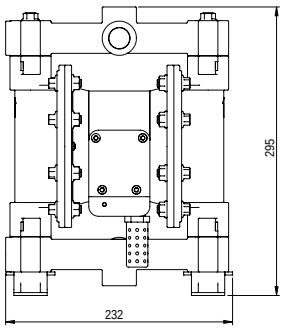
TECHNICAL INFORMATION

Model	41763	41769
Inlet/Outlet	1/2"	1"
Air Inlet	1/4"	1/4"
Flow Rate	12GPM	24GPM
Max. Air Inlet Pressure	115PSI	115PSI
Max. Outlet Pressure	115PSI	115PSI
Max. Diameter Solid	1/8"	1/8"
Membrane	Nitrile	Nitrile

DIMENSIONAL DATA (UNIT: MM)

MODEL: 41763





HYDROREX
www.hydrorex.com

WARRANTY & SUPPORT

281.989.1216
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PRODUCT	**DUAL PRESSURE SYSTEM**
SERIES	**D2-REX SERIES**

STANDARD 3 MONTHS MANUFACTURER WARRANTY:

The manufacturer warrants this product to be free from defects in workmanship and materials, under normal pressure testing use and conditions, for a period of one (3) months for the original invoice date. Shipping and handling fees are to be paid for by the customer. The manufacturer agrees, at its option during the warranty period, to repair and defect in material or workmanship or to furnish a repaired or refurbished product of equal value in exchange without charge (except for a fee for shipping, handling, packing, return postage, and insurance which will be incurred by the customer). Such repair or replacement is subject to verification of the defect or malfunction and proof of purchase as confirmed by showing the model number on original dated sales receipt.

Hydrorex as a Certified and Calibrated Assembly.

- We will Support our products and warrant our products to be free from defects in material and workmanship:

- Any failures determined to be caused by abuse, over-range, and incompatibility with environment or process media will not be considered under this warranty.

D2-REX AIR DRIVEN HIGH & LOW PRESSURES