



McFarland – TriTan, LLC.

The "High Pressure" Specialists!

ATEX DNV CERT. # 3377-2013-CE-VSA-DNV

Series **MAC 28-1** API 674 Compliant

Single Acting Reciprocating Pump – Air/Gas Driven
Hydrostatic Testing - Chemical Injection Pump

SPECIFICATIONS

- Power Cylinder Size 8"
- Stroke Length 4"
- Up to 100 PSI Supply Air/Gas Pressure.
- 185 SCFM Air/Gas Consumption @100 cpm
- Temperature Range -20°F to +140°F
- Compact, Portable, Weight 475 lbs.
- Shipping Cube 58.5 ft.



FEATURES

- Wide Pressure Range
- API 674 Compliant
- Compact, Portable and Light Weight.
- Non-Lubricated Packing and Piston Cups
- Field adjustable speed/volume control
- Easily maintained
- Can be adapted for use as high Pressure, Air-or Gas Operated Chemical Injection Pump.
- Can be adapted for portable use by specifying a skid base, Guard Rail and Lifting Eyes.
- Virtually Trouble-Free for extended running times if proper lubrication and reasonable care of the pump is maintained.
- The standard unit has two fluid ends.
- Hoses, gauges and other accessories are also available upon request.

Performance Chart- Volume & Pressure

Plunger/Piston Size(in)	* Volume @ 100 cpm		***@ 100 psi input pressure				Process Connections			
			Operating Pressure		** Stall Pressure					
	GPM	LPM	PSI	BAR	PSI	BAR	Suction	Discharge	Air/Gas Inlet	Air/Gas Exhaust
1/2"	0.61	2.31	16,507	1,138	20,044	1,381	1½" NPT Female	9/16" AE Female MP	¾" NPT Female	1" NPT Female
5/8"	0.96	3.64	10,562	728	12,825	884				
3/4"	1.38	5.22	7,335	506	8,906	614	1½" NPT	¾" NPT	¾" NPT Female	1" NPT Female
1"	2.45	9.27	4,126	284	5,010	345				
1 ¼"	3.82	14.46	2,641	182	3,207	221				
1 ½"	5.51	20.86	1,834	126	2,227	153				
1 ¾"	7.50	28.39	1,348	93	1,636	113				
2"	9.79	37.06	1,031	71	1,252	86				
2 1/2"	15.30	57.92	660	45	801	55	1½" NPT	1" NPT	¾" NPT Female	1" NPT Female
3"	22.03	83.39	458	31	556	38				
3 ½"	29.99	113.52	337	23	409	28	1½" NPT	1½" NPT	¾" NPT Female	1" NPT Female

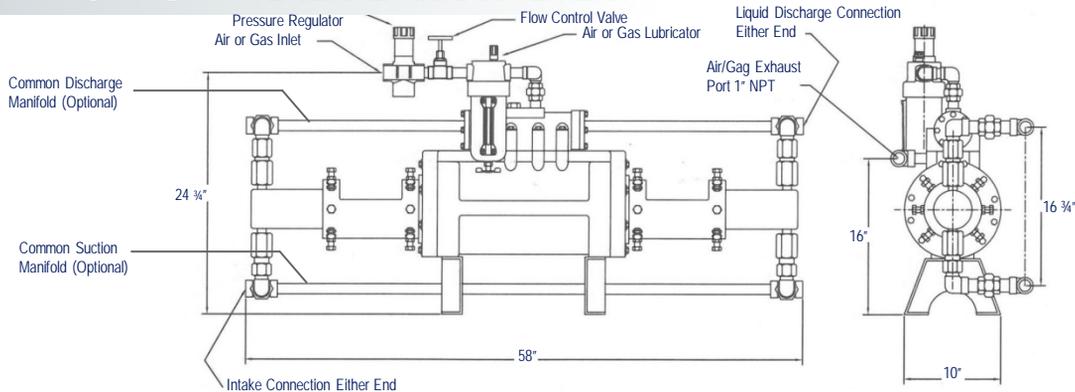
* Volume based on 90% theoretical maximum ** Stall Pressure based on 85% efficiency *** Gas Consumption @ 100 psi and 100 cpm = 185 SCFM



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MAC 28-1 GENERAL ARRANGEMENT



STD MATERIAL OF CONSTRUCTION

- Fluid End-Carbon Steel / 316 St.St. / 303 St.St.
- Plunger-Stainless Steel 17-4 PH Heat Treated
- Power Body-Cast Aluminum / Cast Steel / St.St.
- Air Valve Housing –Cast Aluminum
- Check Valves-Stainless Steel
- Air Valve Core –Brass

STANDARD EQUIPMENT

- Air/ Gas Pressure Regulator With Pressure Gauge
- Air/Gas Flow Control valve
- Air/Gas Lubricator
- Base Plate (Std.) / skid Base (Optional)
- Standard McFarland Blue Color

OPTIONAL EQUIPMENT

1. MAC 28 with skid base, drip pan & lifting eyes - Standard McFarland blue color
2. MAC 28 with skid base, guard rail, drip pan and lifting eyes - Standard McFarland blue color.
3. MAC 28 with skid base, guard rail, drip pan, Casters and lifting eyes - Standard McFarland blue color
4. Any of above options with common suction / common discharge manifolding, carbon steel or St.St
5. Any of above options with Demitcote coating for Offshore Environments
6. Any of above options with DNV 2.7-1 Compliant Skid/Certified Skid.
7. MAC 28 Pump -Sour Gas Modification for NACE MR0175 Compliance.

APPLICATIONS

- Chemical injection at offshore oil wellheads
- Methanol injection in gas systems to prevent freezing
- General high pressure injection applications
- Hydrostatic testing
- Corrosion & Scale inhibitor in pipelines
- Triethylene glycol (TEG)
- Defoamer/Anti-foamer
- H2S gas scavengers



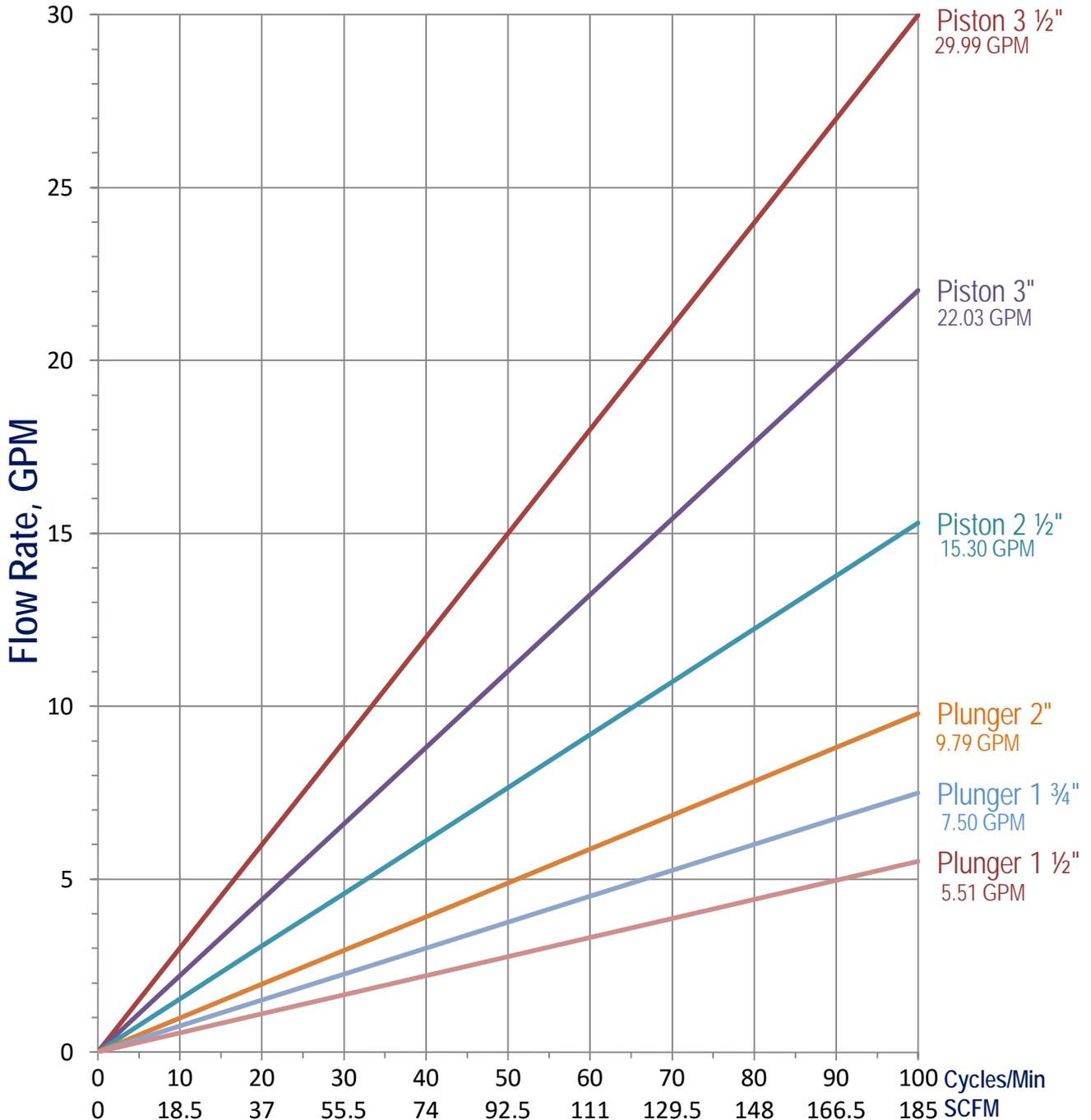
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Flow Rate Vs. Cycles per Minute

Piston Size (3 1/2", 3", 2 1/2") Plunger Size (2", 1 3/4", 1 1/2")



Cycles per Minute



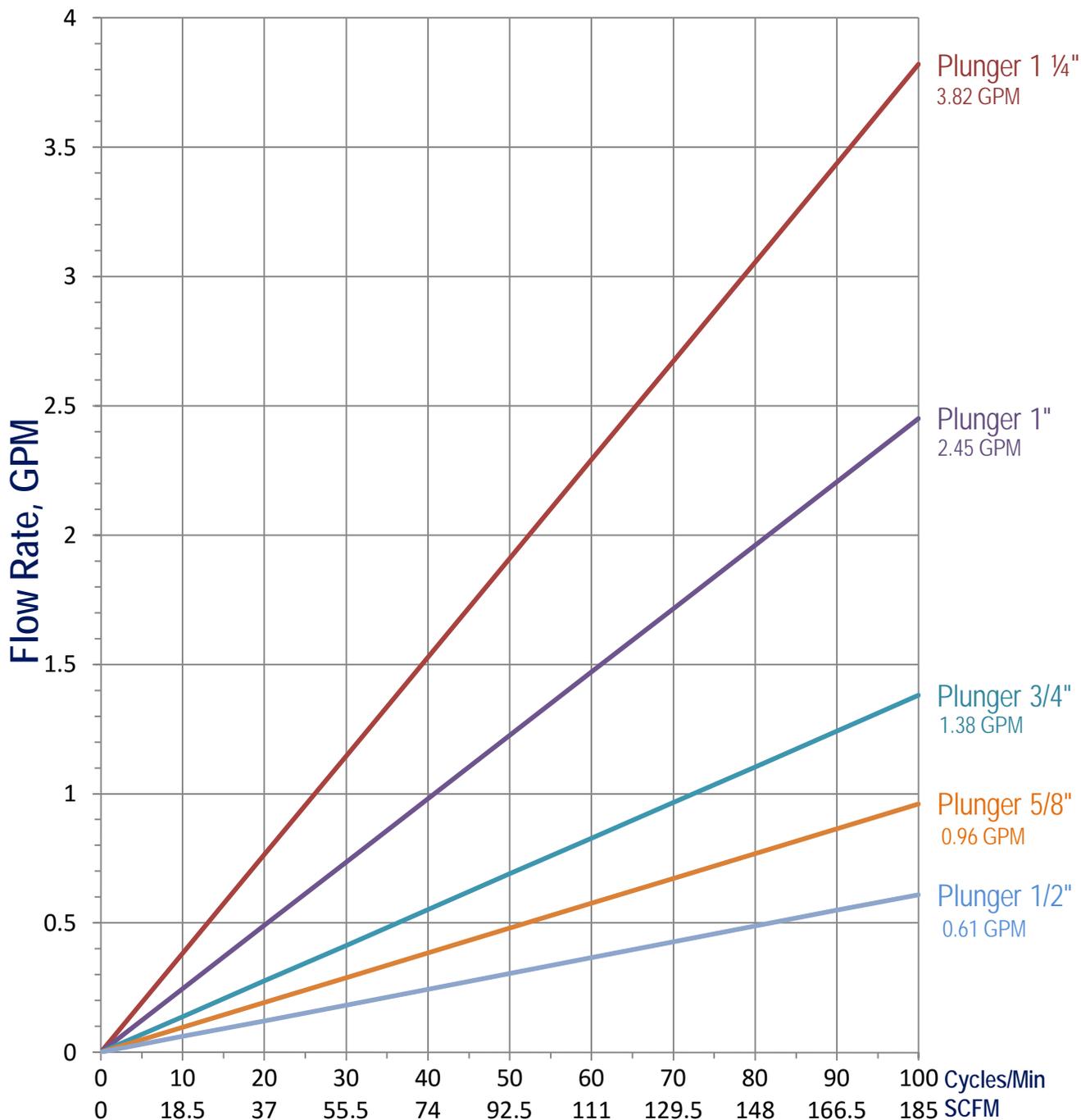
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Flow Rate Vs. Cycles Per Minute

Plunger Size (1 1/4", 1", 3/4", 5/8", 1/2")



Cycles per Minute



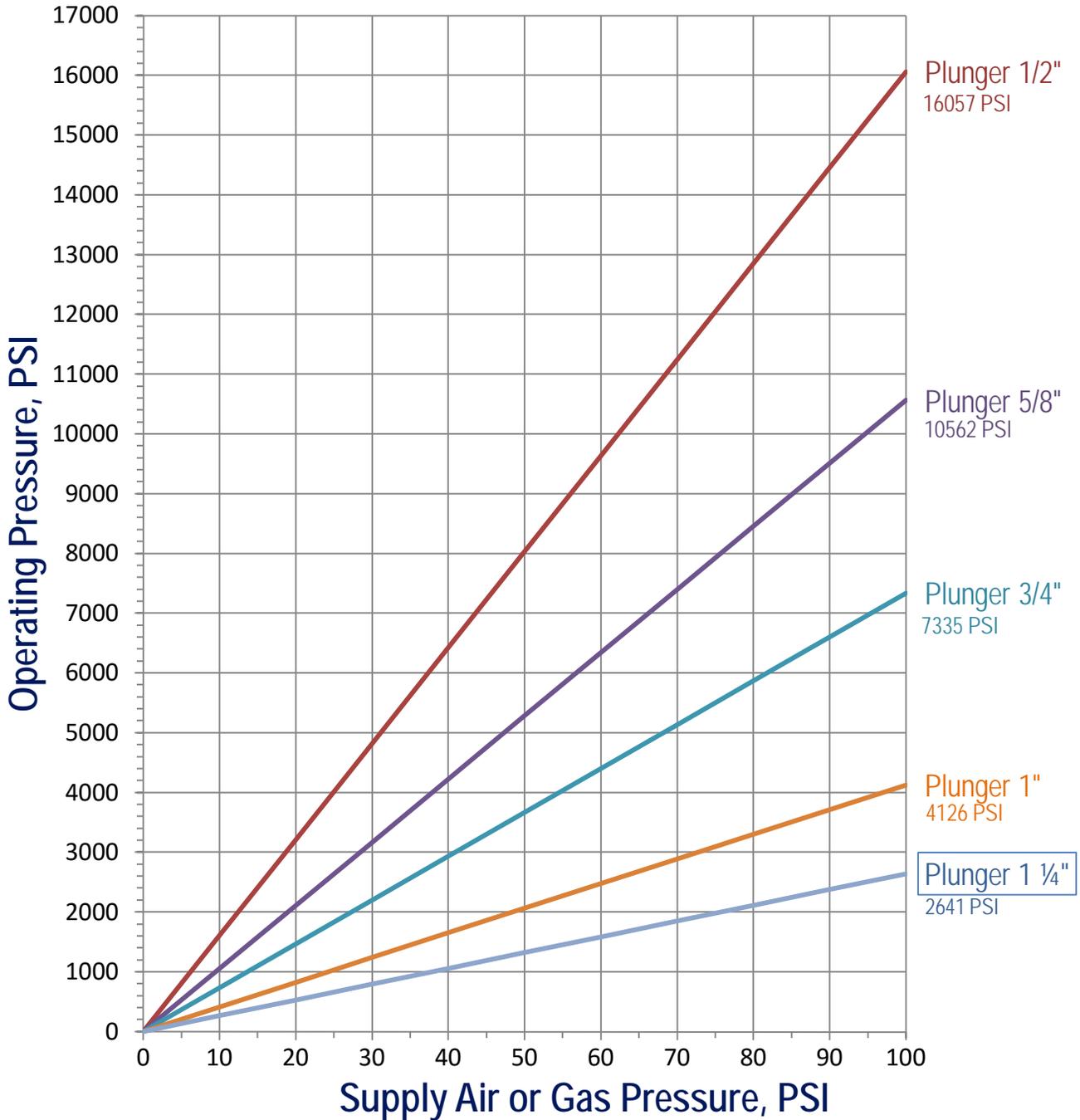
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Operating Pressure vs. Supply Pressure

Plunger Size (1/2", 5/8", 3/4", 1", 1 1/4")





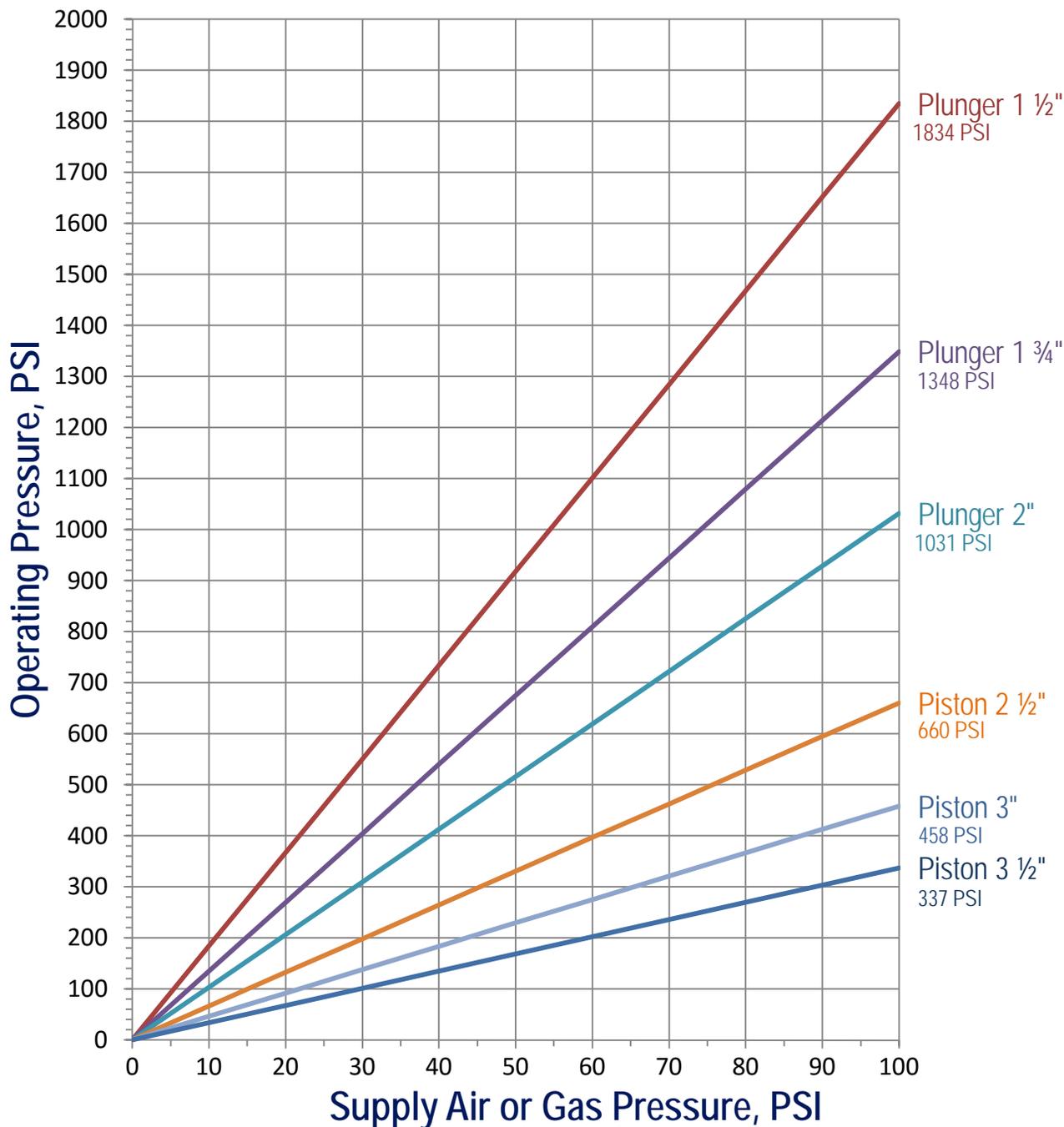
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Operating Pressure vs. Supply Pressure

Plunger Size (1 1/2", 1 3/4", 2") Piston Size (2 1/2", 3", 3 1/2")



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100% Made in USA