



McFarland – TriTan, LLC.

The "High Pressure" Specialists!

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

Series **MAC 24** API 675 Compliant

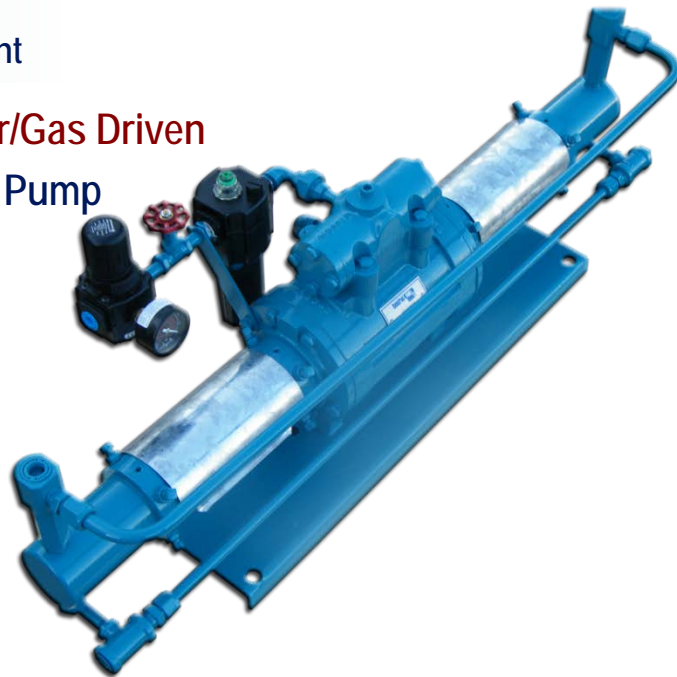
Single Acting Reciprocating Pump – Air/Gas Driven
Chemical Injection/Hydrostatic Testing Pump

SPECIFICATIONS

- Power Cylinder Size 4"
- Stroke Length 2"
- Adjustable Speed up to 100 Cycles/Min

FEATURES

- API 675 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, Single Fluid End available if desired.
- Hoses, gauges and other accessories are also available.



Performance Chart- Volume & Pressure

Plunger/Piston Size(in)	* Volume @ 60 cpm		@ 100 psi input pressure				Connections			
			** Operating Pressure		*** Stall Pressure					
	GPM	LPM	PSI	BAR	PSI	BAR	Suction	Discharge	Air/Gas Inlet	Air/Gas Exhaust
3/16"	0.04	0.15	30,765	2,121	37,350	2,575	½" NPT Female	9/16" AE MP Female	¼" NPT Female	¼" NPT Female
1/4"	0.08	0.30	17,297	1,193	21,000	1,448				
5/16"	0.12	0.45	11,070	763	13,440	927				
3/8"	0.17	0.64	7,690	530	9,340	644	½" NPT Female	3/8" NPT Female	¼" NPT Female	¼" NPT Female
1/2"	0.31	1.17	4,325	298	5,250	362				
5/8"	0.49	1.85	2,770	191	3,360	232				
3/4"	0.69	2.61	1,920	132	2,330	161				
1"	1.22	4.62	1,080	74	1,310	90				
1 1/4"	1.91	7.23	690	48	840	58	½" NPT Female	½" NPT Female	½" NPT Female	¼" NPT Female
1 1/2"	2.75	10.41	480	33	580	40				
1 3/4"	3.75	14.20	350	24	430	30				
2"	4.9	18.55	270	19	330	23	¾" NPT Female	¾" NPT Female	¾" NPT Female	¼" NPT Female

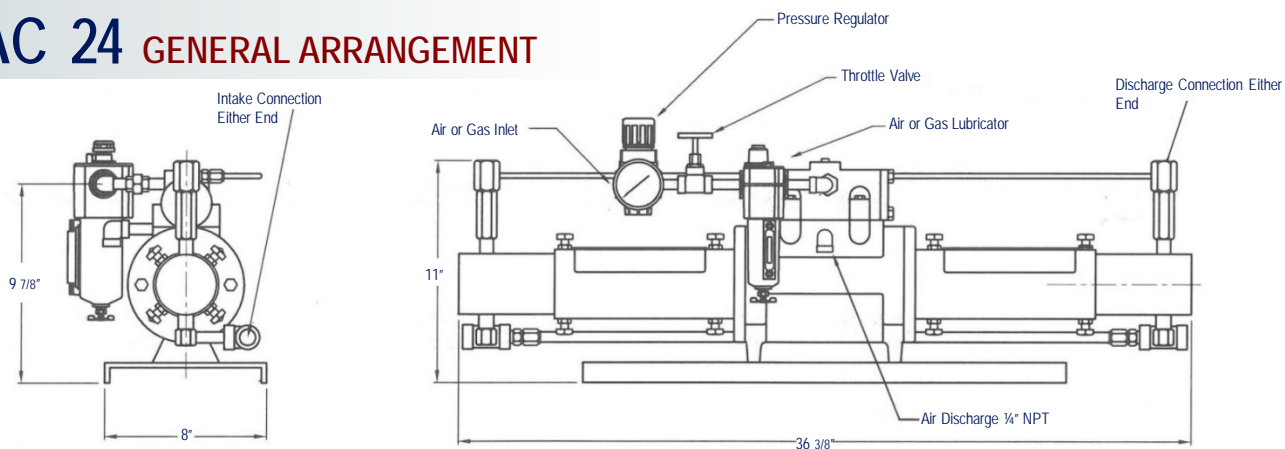
▪ Note: Volume discharge shown above is for two fluid ends manifolded together, single fluid end volume will be half the above volume discharge shown.



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MAC 24 GENERAL ARRANGEMENT



MATERIAL OF CONSTRUCTION

- Fluid End-Carbon Steel or Stainless Steel
- Plunger-Stainless Steel 17-4 PH Heat Treated
- Power Body-Cast Aluminum / Carbon Steel / St.St
- Air Valve Housing –Aluminum / Carbon Steel / St.St
- Check Valves-Stainless Steel
- Air Valve Core –Brass / Ryton for sour gas application
- Manifolding-Carbon Steel or Stainless Steel

STANDARD EQUIPMENT

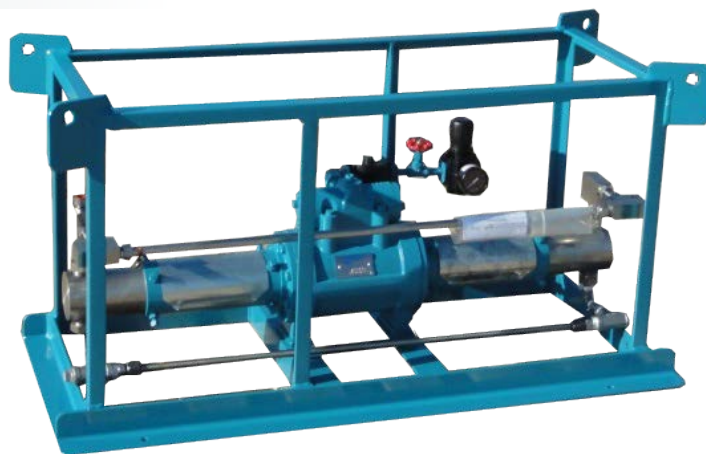
- Air/ Gas Pressure Regulator
- Air/Gas Pressure Gauge
- Air-Gas Lubricator
- Throttle Control Valve
- Base Plate
- Standard McFarland Blue Color

OPTIONAL EQUIPMENT

1. MAC 24 with skid base, drip pan & lifting eyes - Standard McFarland blue color
2. MAC 24 with skid base, guard rail, drip pan and lifting eyes - Standard McFarland blue color.
3. MAC 24 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.
7. MAC 24 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





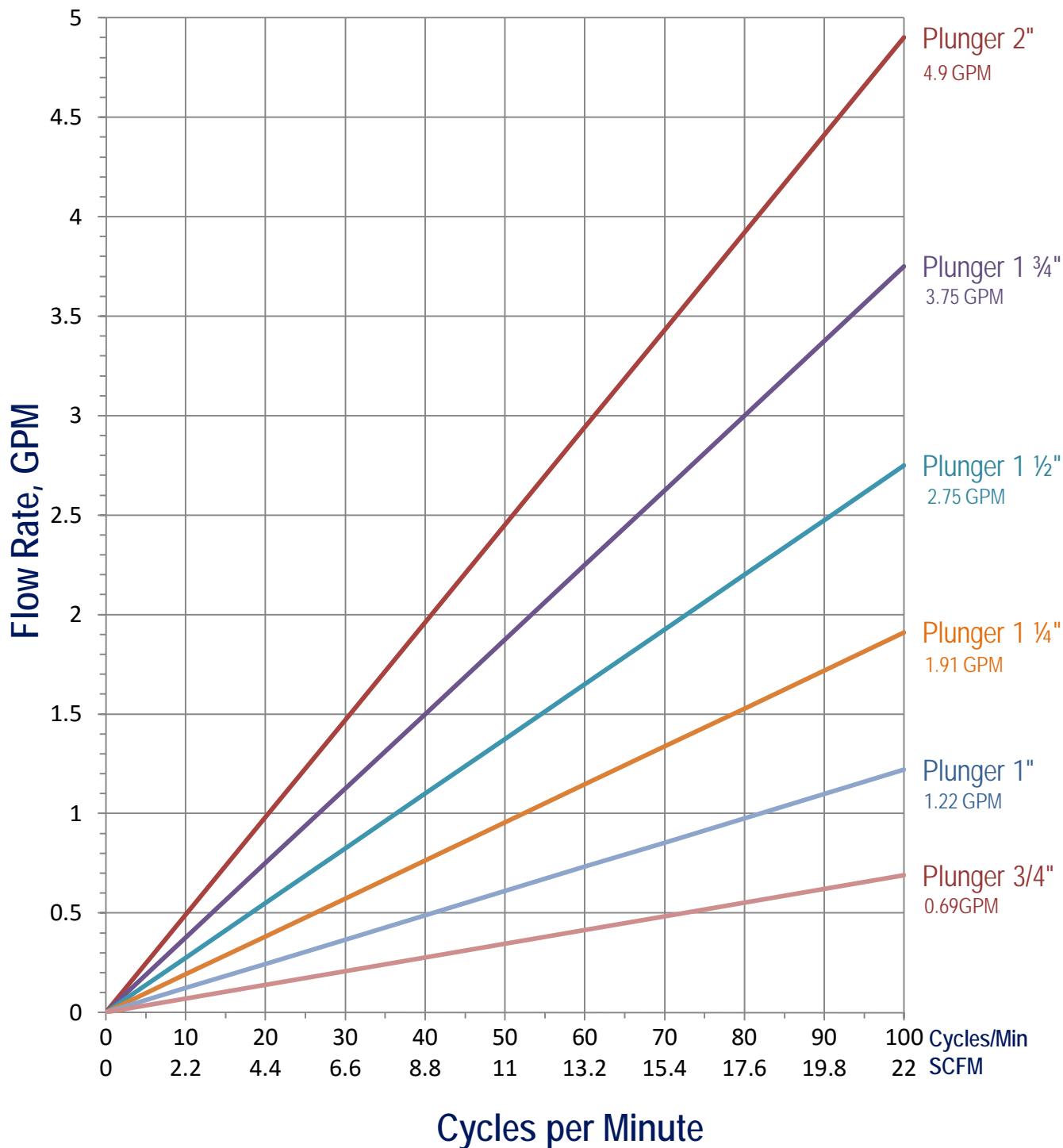
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MAC 24

Flow Rate Vs. Cycles per Minute

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

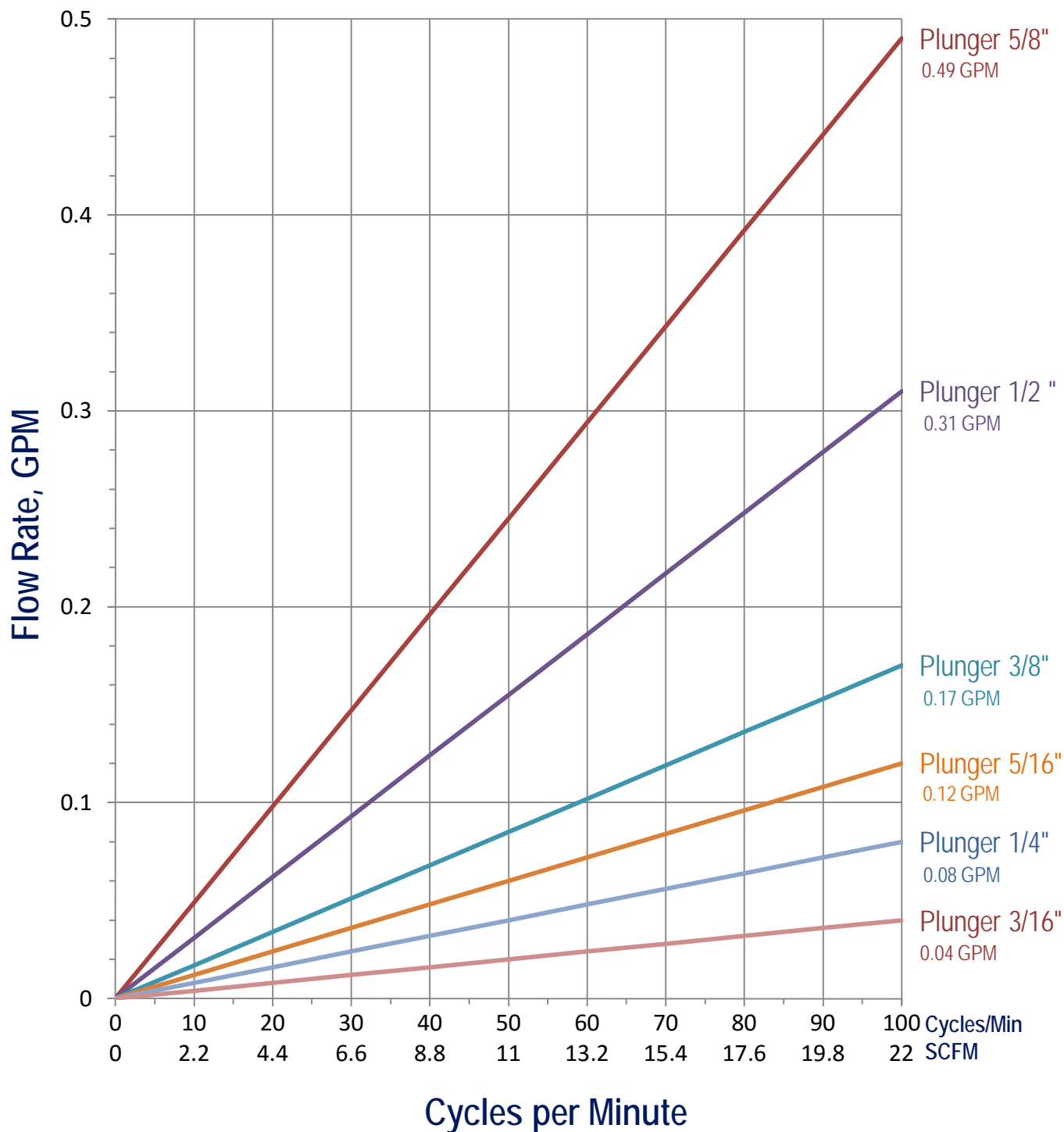




MAC 24

Flow Rate Vs. Cycles per Minute

Plunger Size (5/8", 1/2", 3/8", 5/16", 1/4", 3/16")





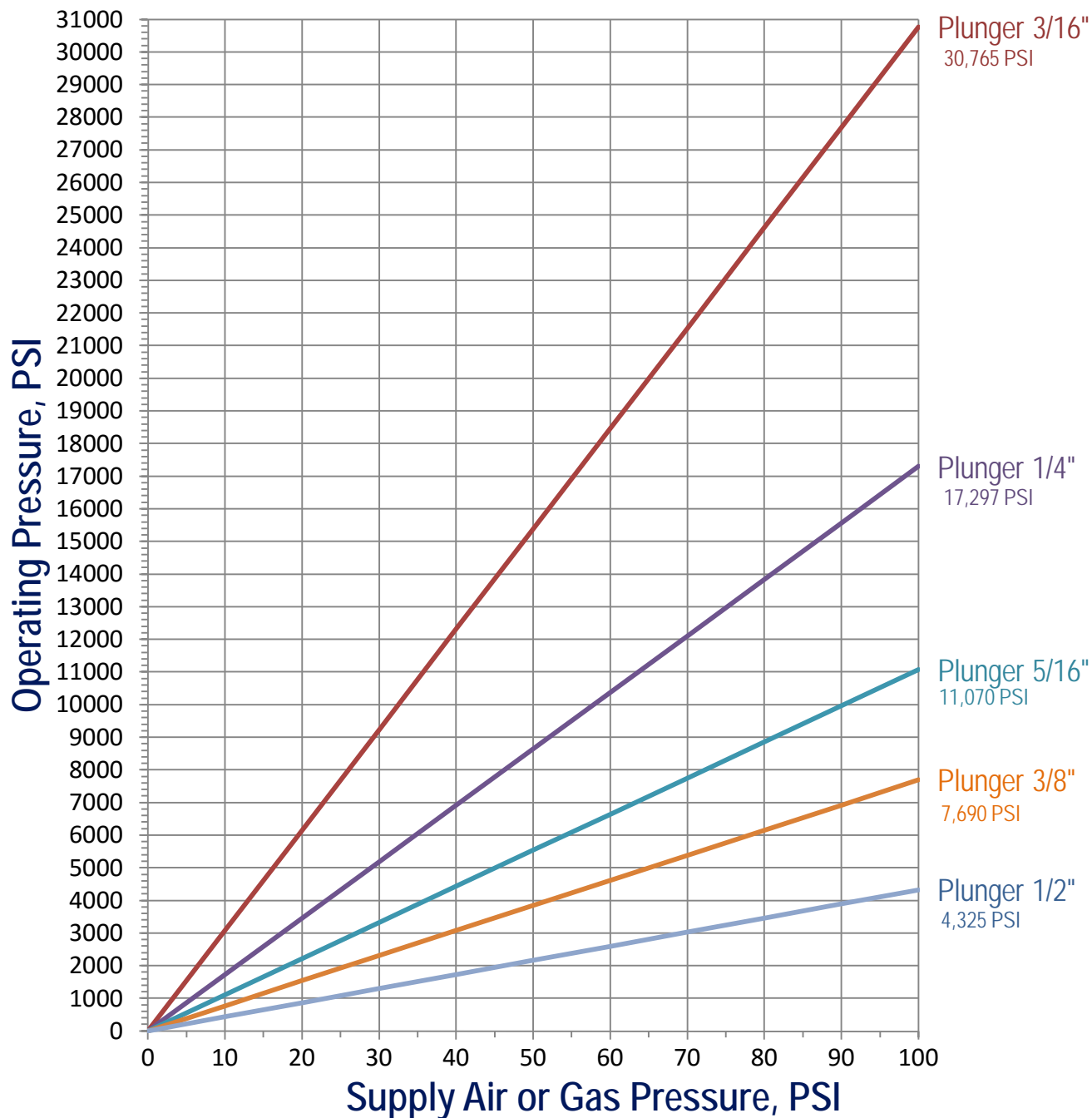
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Operating Pressure vs. Supply Pressure

Plunger Size (3/16", 1/4", 5/16", 3/8", 1/2")





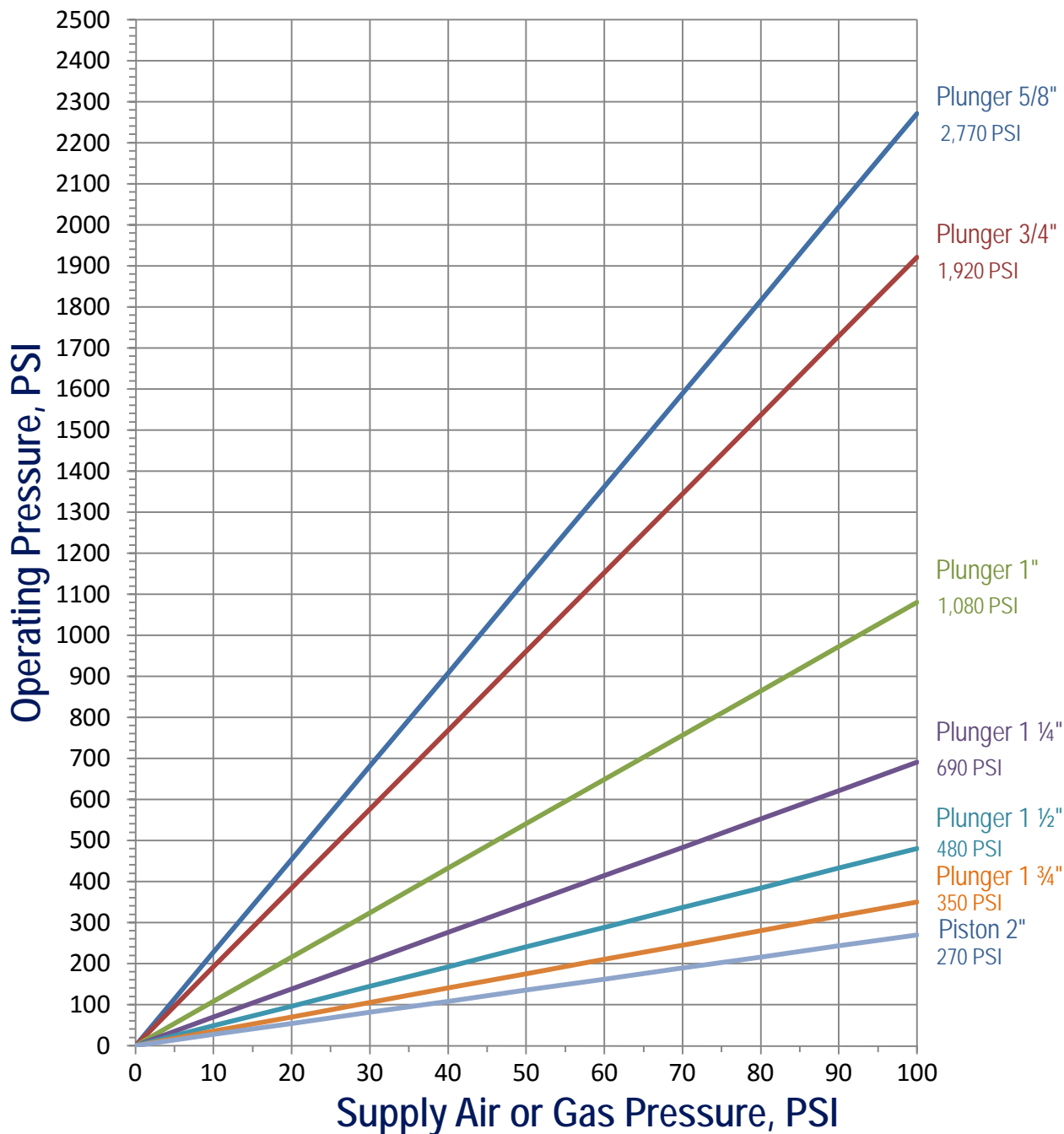
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Operating Pressure vs. Supply Pressure

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



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