



McFarland - TriTan, LLC.

The "High Pressure" Specialists!

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

Series MAC 14 API 674 Compliant

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

SPECIFICATIONS

- Power Piston Size 14"
- Stroke Length 4 ½"
- Adjustable Speed up to 60 Cycles/Min.
- Air/Gas Input Pressure 100 psi max.
- Gas Consumption 385 SCFM @ 60 CPM
- Temperature Range : -20 °F to +140°F
- Weight :540 lbs
- Shipping Cube : 63.5 ft³
- Bare Pump Dimensions 55"x20"x41" (L*W*H)



FEATURES

- Biggest Air/Gas driven pump in the market.
- API 674 Compliant.
- Available in different plunger sizes.
- Can be adapted for portable use by specifying a skid base, Guard Rail and Lifting Eyes.
- Designed for Intermediate Pressure testing and Chemical Injection with High Volume Rates.
- Virtually Trouble-Free for extended running times if proper lubrication and reasonable care of the pump is maintained.
- Non-Lubricated Packing and Piston Cups.
- Field adjustable speed/volume control.
- Easily maintained.

Performance Chart- Volume & Pressure

Plunger/Piston Size(in)	* Volume @ 60 cpm		***@ 100 psi input pressure				Process Connections			
			*Operating Pressure		**Stall Pressure		Suction	Discharge	Air/Gas Inlet	Air/Gas Exhaust
	GPM	LPM	PSI	BAR	PSI	BAR				
3/4"	0.93	3.52	23700	1,634	28771	1,984	1 ½" NPT Female	9/16" AE MP	1" NPT Female	1 ½" NPT Female
7/8"	1.25	4.73	17452	1,203	21,190	1,461				
1"	1.65	6.25	13,370	922	16,230	1,119	1 ½" NPT Female	1" NPT Female	1" NPT Female	1 ½" NPT Female
1 ¼"	2.60	9.84	8,550	590	10,386	716				
1 ½"	3.70	14.01	5,940	410	7,210	497				
1 ¾"	5.00	18.93	4,365	301	5,300	365	1 ½" NPT Female	1" NPT Female	1" NPT Female	1 ½" NPT Female
2"	6.60	24.98	3,340	230	4,055	280				
2 ½"	10.30	38.99	2,140	148	2,595	179				
3"	14.80	56.02	1,485	102	1,800	124				
3 ½"	20.00	75.71	1,090	75	1,325	91	1 ½" NPT Female	1 ½" NPT Female	1" NPT Female	1 ½" NPT Female
4"	26.40	99.93	835	58	1,015	70				

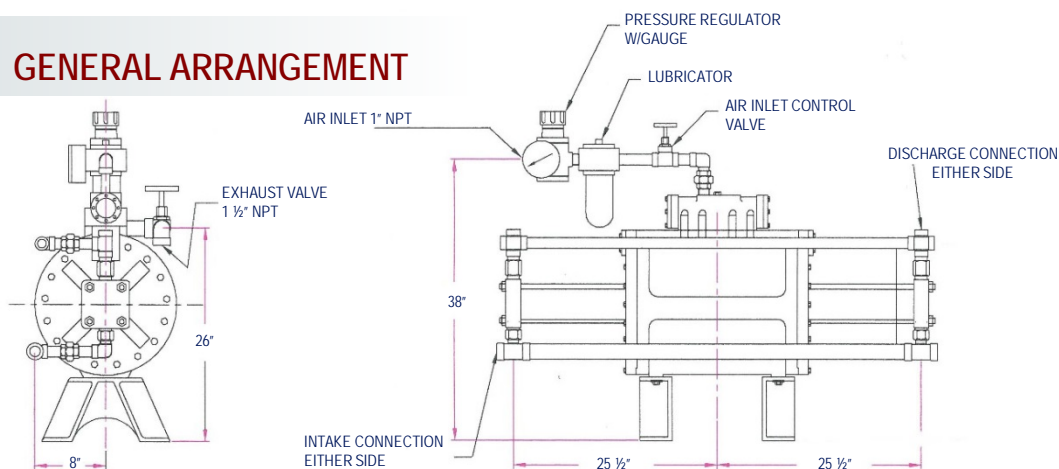
* Volume based on 90% theoretical maximum ** Stall Pressure based on 85% efficiency *** Gas Consumption @ 100 psi and 60 cpm = 385 SCFM



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MAC 14 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 Paint

OPTIONAL EQUIPMENT

1. Pump with Stainless Steel Fluid Ends
2. Pump with Manifolding , Carbon Steel or Stainless Steel
3. Pump with Sour Gas Modification for NACE MR0175 Compliance.
4. Skidded Pump, Standard McFarland Paint , per following options :

a) Skid Base	b) Skid Base w/ Guard Rail & Lifting Eyes
c) Skid w/ Guard Rail, Drip Pan & Lifting Eyes	d) Skid w/ Guard Rail, Drip Pan, Casters & Lifting Eyes
5. Any of above options with Demitcote coating for Offshore Environments

a) Pump Only	b) Pump & Skid
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6. Skid- DNV 2.7-1 Compliant/Certified.
7. Accessories (Stroke Counter, Muffler, Gauges, Hoses, Valves, Dampeners, ...)

APPLICATIONS

- Energy Recovery from Flare Gas
- Chemical Injection at Offshore Oil Wellheads
- Methanol injection in gas systems to prevent freezing
- Closed Drain, Open Drain & Transfer Pump
- HPU Subsea Control
- Hydrostatic testing
- Corrosion & Scale inhibitor in pipelines
- Triethylene glycol (TEG)
- Defoamer/Anti-Foamer/Demulsifier / Biocide
- H2S gas scavengers



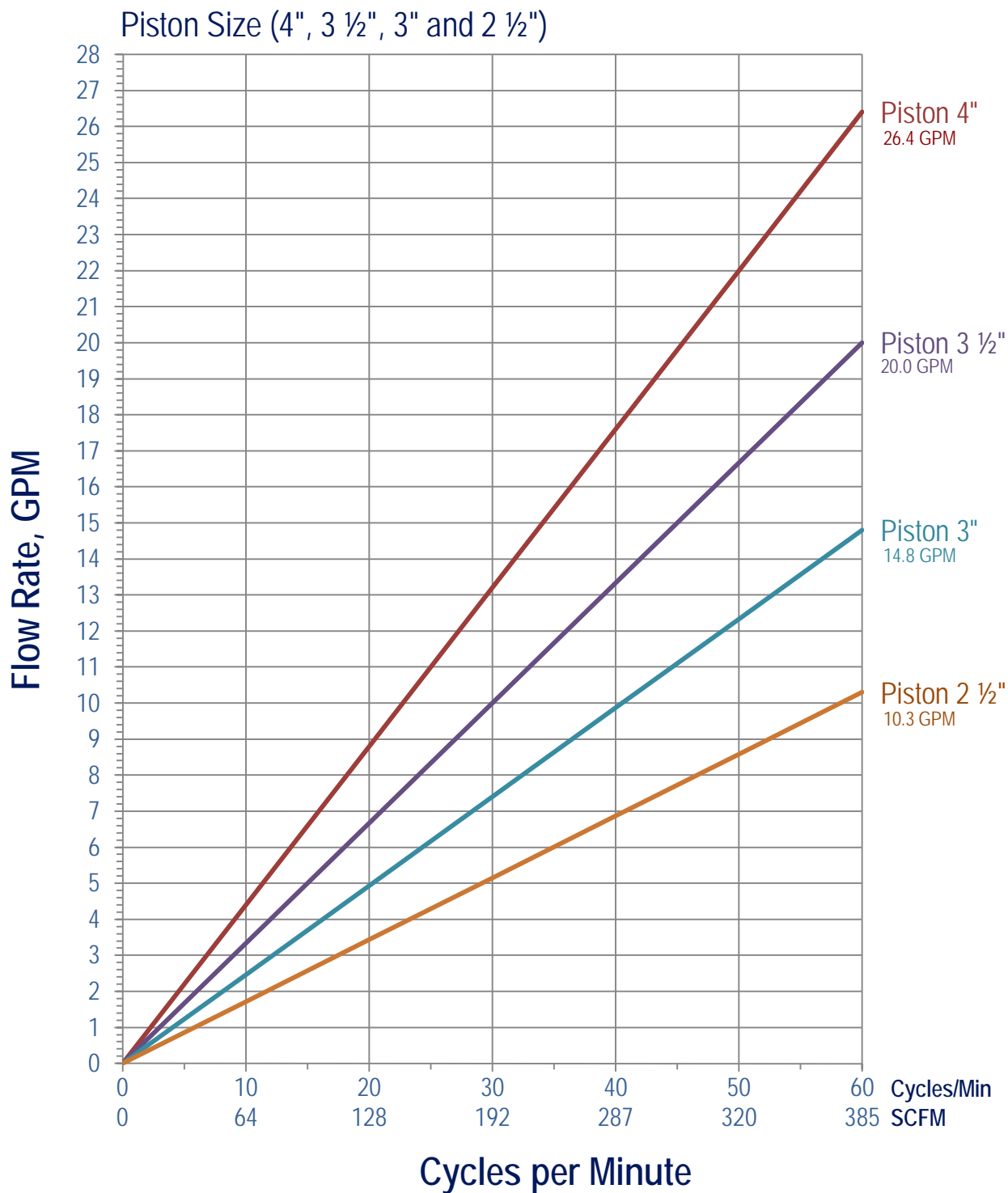


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Flow Rate Vs. Cycles per Minute





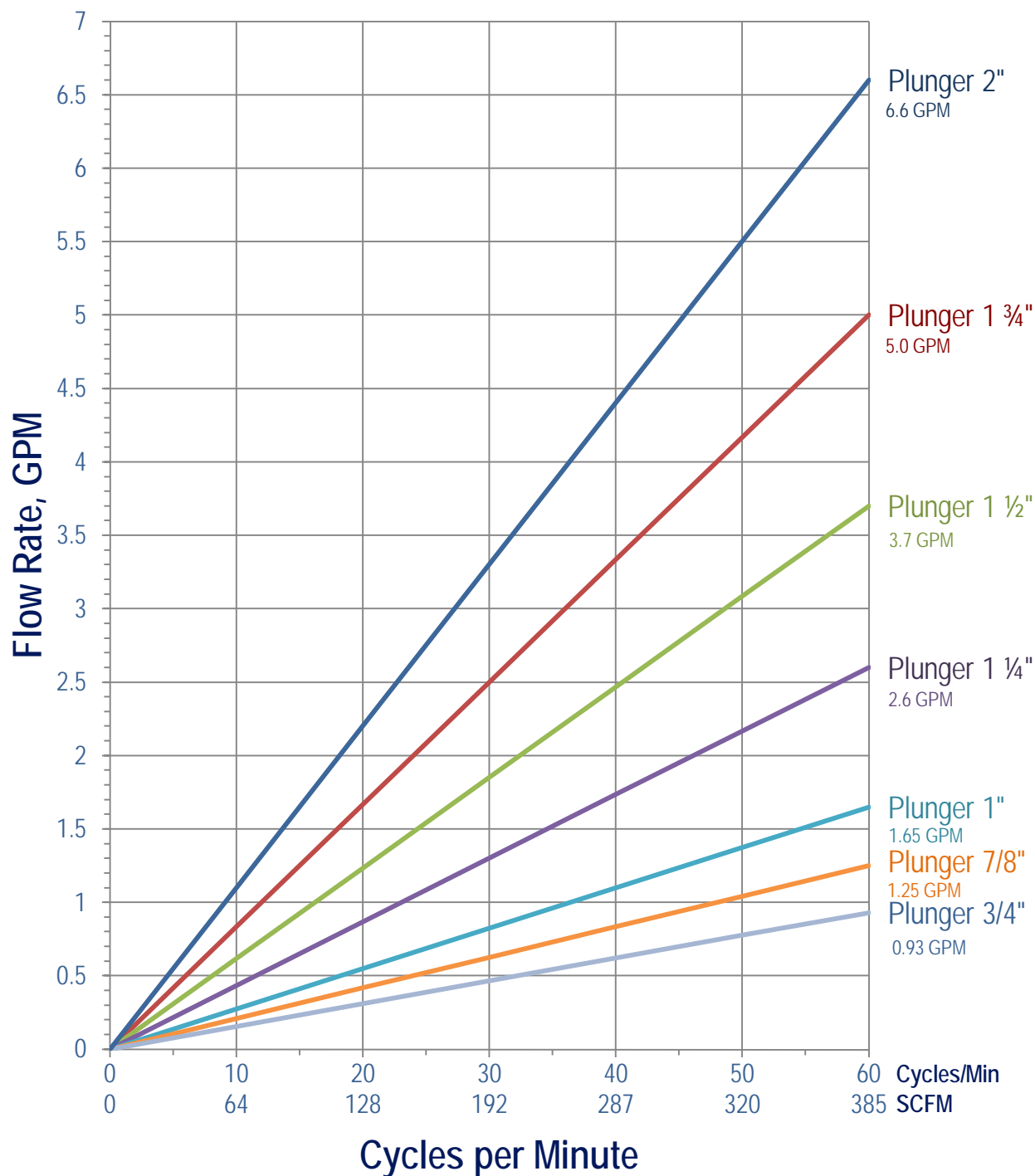
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Flow Rate Vs. Cycles per Minute

Plunger Size (2", 1 3/4", 1 1/2", 1 1/4", 1", 7/8" and 3/4")





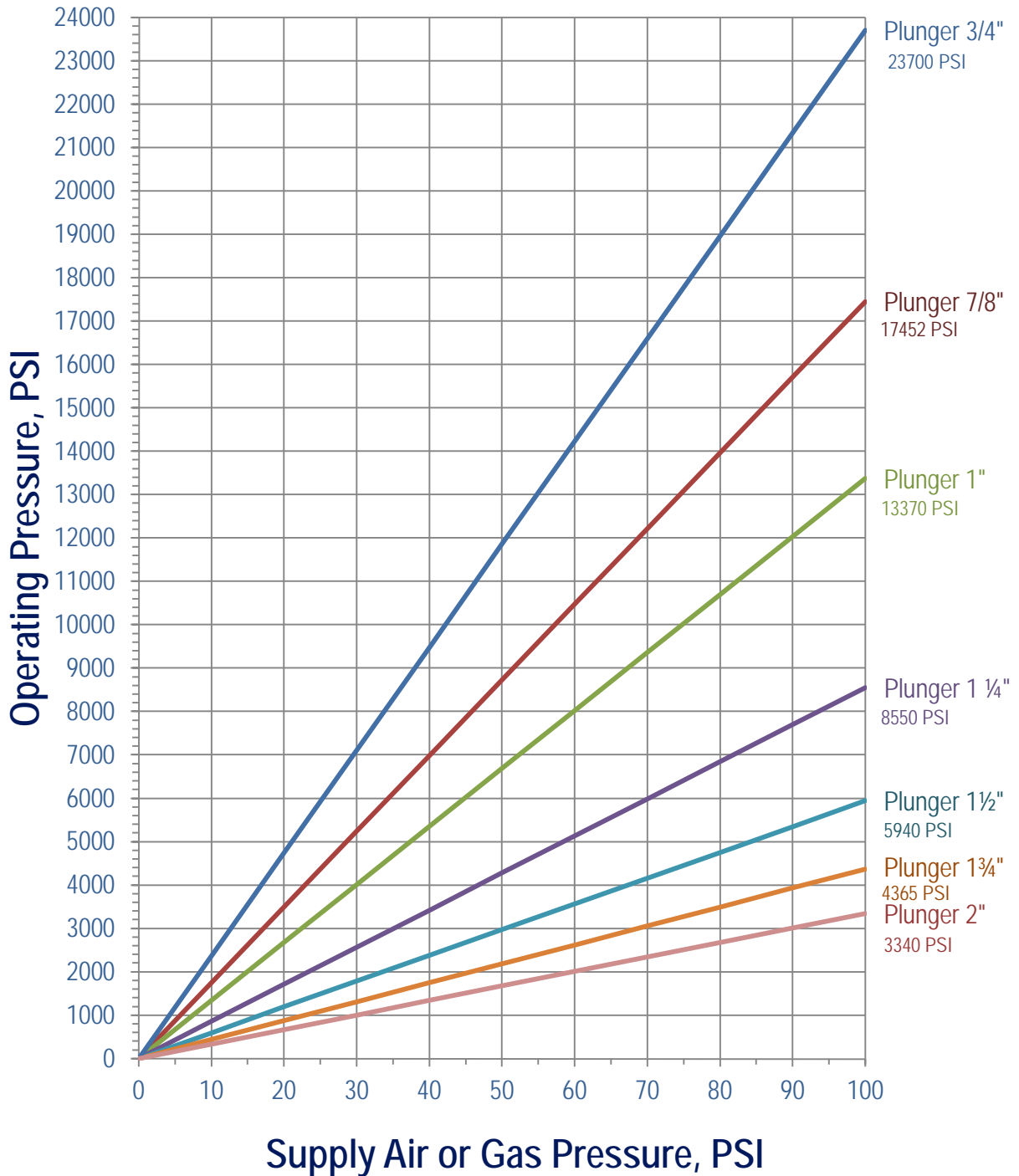
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Operating Pressure vs. Supply Pressure

Plunger Size (3/4", 7/8", 1", 1 1/4", 1 1/2", 1 3/4" and 2")



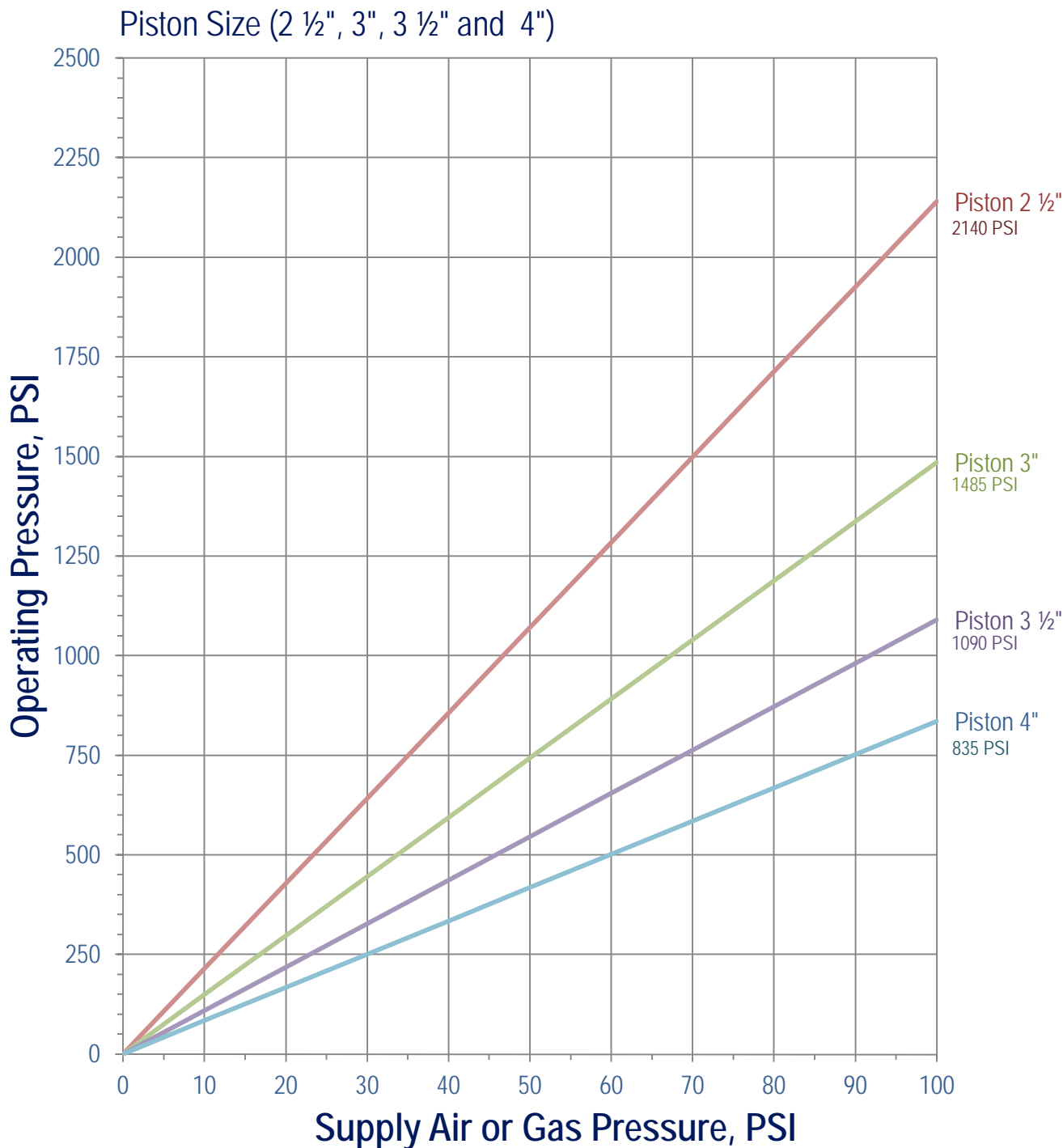


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Operating Pressure vs. Supply Pressure



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