Python® XL-DA Series Pumps

Pneumatically Operated Double Acting Pumps for Chemical Injection

PROVEN QUALITY. LEADING TECHNOLOGY.

Python® XL-DA Pneumatically Operated Pumps

Features and Benefits

Python XL-DA series pumps are suitable for chemical injection applications that require higher flows at high pressures. These pumps operate on low gas or compressed air pressures and utilize the same Merkur® air motor used on other Graco products. The Graco patented high efficiency air valve helps minimize fugitive emissions and gas recovery can be achieved on specific models. The Python XL-DA pumps fluid in both stroke directions which provides continuous flow operation and prevents the pump from air locking.

Double Acting
- Pumps fluid in both directions of the stroke for increased flows
- Provides continuous flow operation for better pump efficiencies

Self Priming
- Anti-locking so air cannot get trapped inside air motor and stall pump
- Pump can free itself of air and resume pumping without any adjustments

Ease of Serviceability
- Simple pump design for quick seals replacement
- Pumps are installed vertically for a reduced footprint
- Minimum number of tools required

Environmentally friendly
- Recoverable exhaust gas with kit
- Less fugitive emissions
- 4.5" air motors come ready for a gas recovery add-on kit

Adjustable Packing Seals
For better sealing and increased pump life

Plunger Rod Design
- Chromex coated plunger comes standard
- Ceramic coated plunger available as an option
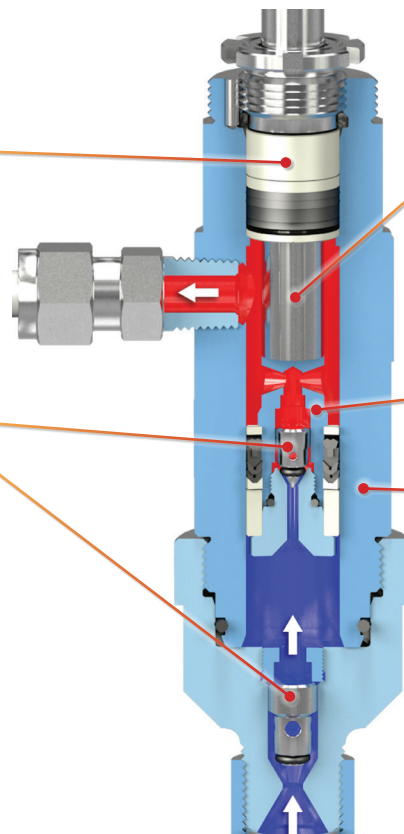- Drive cyclinder also coated

Poppet Style Check Valves
Proprietary design

Hollow Pump Rod Design
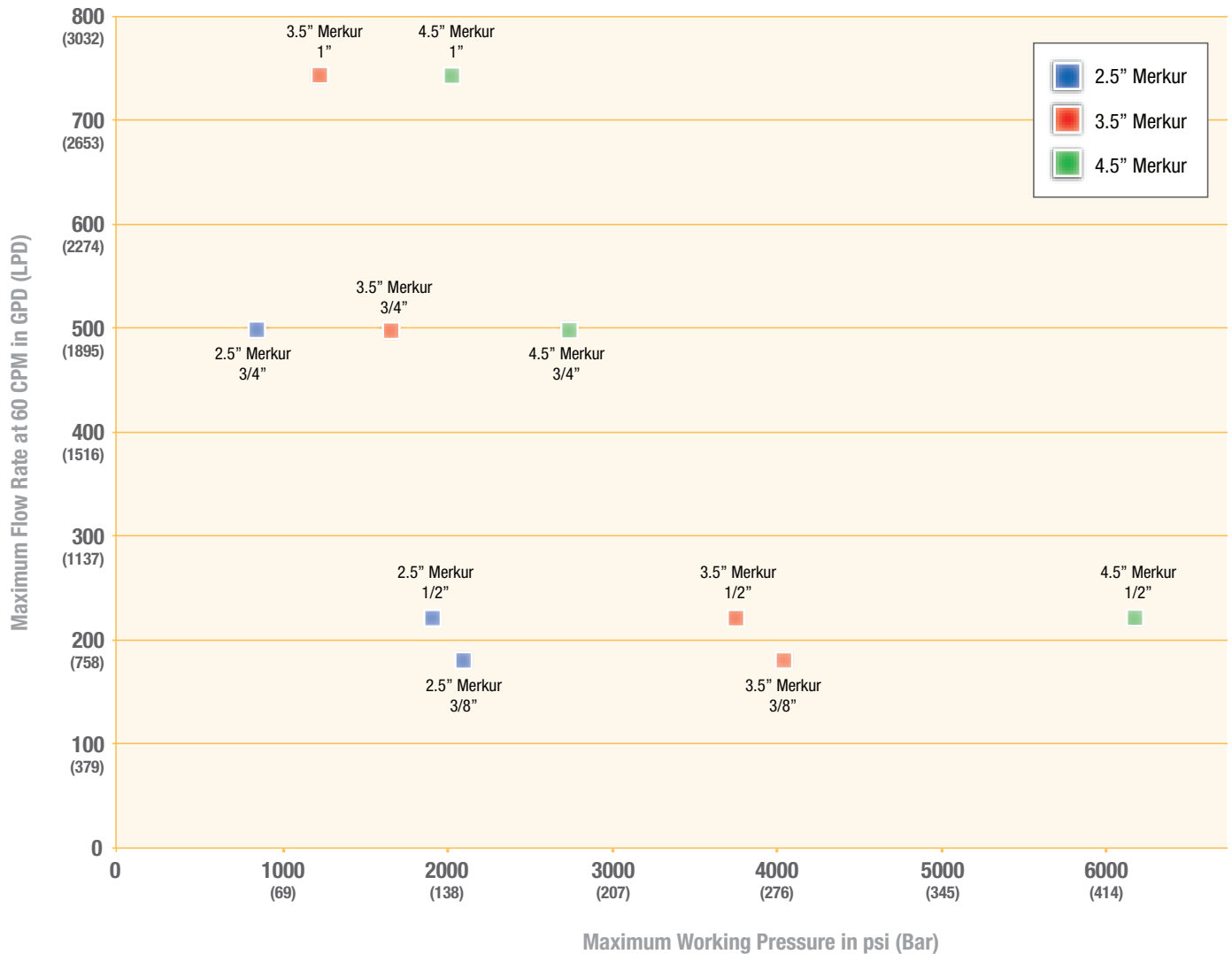Allows for flow in both directions of stroke

Self Priming Double Acting Pump Lower
- Double the flow
- Check valves not required
- Can better handle viscous materials

Achieving the right flows at the right pressures to fit all of your chemical injection needs is easy!

With three air motor sizes and four different plunger sizes to choose from, the new Python XL-DA pumps are designed to increase production, reduce costs, lower emissions and provide consistent flow for all of your demanding applications.

Maximum Flow Rate at 60 CPM in GPD (LPD)

Legend:
- ■ 2.5" Merkur (blue)
- ■ 3.5" Merkur (red)
- ■ 4.5" Merkur (green)

Data points:
- 3.5" Merkur 1" — ~1250 psi, 750 GPD
- 4.5" Merkur 1" — ~2000 psi, 750 GPD
- 2.5" Merkur 3/4" — ~900 psi, 500 GPD
- 3.5" Merkur 3/4" — ~1700 psi, 500 GPD
- 4.5" Merkur 3/4" — ~2800 psi, 500 GPD
- 2.5" Merkur 1/2" — ~1950 psi, 225 GPD
- 3.5" Merkur 1/2" — ~3800 psi, 225 GPD
- 4.5" Merkur 1/2" — ~6100 psi, 225 GPD
- 2.5" Merkur 3/8" — ~2100 psi, 185 GPD
- 3.5" Merkur 3/8" — ~4050 psi, 185 GPD

X-axis: **Maximum Working Pressure in psi (Bar)**
- 0
- 1000 (69)
- 2000 (138)
- 3000 (207)
- 4000 (276)
- 5000 (345)
- 6000 (414)

Y-axis values:
- 800 (3032)
- 700 (2653)
- 600 (2274)
- 500 (1895)
- 400 (1516)
- 300 (1137)
- 200 (758)
- 100 (379)
- 0

Ordering Information

GRACO Python XL-DA Pneumatic Pump Model Numbers 2.5"			
Seals / Plunger Size	**3/8"**	**1/2"**	**3/4"**
Python XL-DA, Chromex Coated Plungers (CE Approved)			
HNBR	A22200	A22206	A22212
FFKM	A22201	A22207	A22213
TFE/P	A22202	A22208	A22214
Python XL-DA, Ceramic Coated Plungers (CE Approved)			
HNBR	A22203	A22209	A22215
FFKM	A22204	A22210	A22216
TFE/P	A22205	A22211	A22217

GRACO Python XL-DA Pneumatic Pump Model Numbers 2.5"			
Seals / Plunger Size	**3/8"**	**1/2"**	**3/4"**
Python XL-DA, Chromex Coated Plungers (ATEX Approved)			
HNBR	A24200	A24206	A24212
FFKM	A24201	A24207	A24213
TFE/P	A24202	A24208	A24214
Python XL-DA, Ceramic Coated Plungers (ATEX Approved)			
HNBR	A24203	A24209	A24215
FFKM	A24204	A24210	A24216
TFE/P	A24205	A24211	A24217

GRACO Python XL-DA Pneumatic Pump Model Numbers 3.5"				
Seals / Plunger Size	**3/8"**	**1/2"**	**3/4"**	**1"**
Python XL-DA, Chromex Coated Plungers (CE Approved)				
HNBR	A22300	A22306	A22312	A22318
FFKM	A22301	A22307	A22313	A22319
TFE/P	A22302	A22308	A22314	A22320
Python XL-DA, Ceramic Coated Plungers (CE Approved)				
HNBR	A22303	A22309	A22315	A22321
FFKM	A22304	A22310	A22316	A22322
TFE/P	A22305	A22311	A22317	A22323

GRACO Python XL-DA Pneumatic Pump Model Numbers 3.5"				
Seals / Plunger Size	**3/8"**	**1/2"**	**3/4"**	**1"**
Python XL-DA, Chromex Coated Plungers (ATEX Approved)				
HNBR	A24300	A24306	A24312	A24318
FFKM	A24301	A24307	A24313	A24319
TFE/P	A24302	A24308	A24314	A24320
Python XL-DA, Ceramic Coated Plungers (ATEX Approved)				
HNBR	A24303	A24309	A24315	A24321
FFKM	A24304	A24310	A24316	A24322
TFE/P	A24305	A24311	A24317	A24323

GRACO Python XL-DA Pneumatic Pump Model Numbers 4.5"			
Seals / Plunger Size	**1/2"**	**3/4"**	**1"**
Python XL-DA, Chromex Coated Plungers (CE Approved)			
HNBR	A22406	A22412	A22418
FFKM	A22407	A22413	A22419
TFE/P	A22408	A22414	A22420
Python XL-DA, Ceramic Coated Plungers (CE Approved)			
HNBR	A22409	A22415	A22421
FFKM	A22410	A22416	A22422
TFE/P	A22411	A22417	A22423

GRACO Python XL-DA Pneumatic Pump Model Numbers 4.5"			
Seals / Plunger Size	**1/2"**	**3/4"**	**1"**
Python XL-DA, Chromex Coated Plungers (ATEX Approved)			
HNBR	A24406	A24412	A24418
FFKM	A24407	A24413	A24419
TFE/P	A24408	A24414	A24420
Python XL-DA, Ceramic Coated Plungers (ATEX Approved)			
HNBR	A24409	A24415	A24421
FFKM	A24410	A24416	A24422
TFE/P	A24411	A24417	A24423

Python XL-DA 2.5"

Python XL-DA 3.5"

Python XL-DA 4.5"

Technical Data

Python XL-DA Chemical Injection Pump		US	Metric
Maximum pneumatic inlet pressure		See Instruction Manual	
Maximum fluid working pressure		See Instruction Manual	
Maximum cycle rate		60 cpm	
Environmental temperature range		-40° – 176°F	-40°– 80°C
Noise (dBa)			
2.5 in. Air Motor Sound Power		83.2 dBA	
2.5 in. Air Motor Sound Pressure		76.5 dBA	
3.5 in. Air Motor Sound Power		84.5 dBA	
3.5 in. Air Motor Sound Pressure		77.9 dBA	
4.5 in. Air Motor Sound Power		80.1 dBA	
4.5 in. Air Motor Sound Pressure		70.2 dBA	
Inlet/Outlet Sizes			
Fluid inlet size (1/2 in. plunger)		1/2 in. npt(m)	
Fluid inlet size (3/4 in. plunger)		3/4 in. npt(m)	
Fluid inlet size (1 in. plunger)		1 in. npt(m)	
Fluid outlet size (1/2 in., and 3/4 in. plungers)		1/4 in. npt(f)	
Fluid outlet size (1 in. plunger)		1/2 in. npt(f)	
Pneumatic inlet size		1/4 in. npt(f)	
Exhaust fitting size		3/8 in. npt(f)	
Materials of Construction			
Pump/Check Valve Seal Material		See Configuration Chart in manual for seal material. All other packing materials are PEEK and PTFE unless otherwise noted.	
Wetted Parts		See Configuration Chart in manual for plunger material. All other materials are 316 stainless steel unless otherwise noted.	
Weight			
2.5 in. (ALL MODELS)		24.0 lbs.	10.9 kg
3.5 in. (ALL MODELS)		29.5 lbs.	13.4 kg
4.5 in. (ALL MODELS)		34 lbs.	15.4 kg

Configuration Number Matrix

Check the identification plate (ID) for the 12-digit Configuration Number of your pump. Use the following matrix to define the components of your pump. *NOTE: Not all combinations are possible.*

Sample Configuration Number: PCI-0450-025-050-XC-1-0

PCI	0450	038	050	X	C	1	0
Pneumatic Chemical Injection	Pneumatic Motor Size	Pump Lower Primary Seal Size	Pump Lower Secondary Seal Size	Pump Lower Coating	Seal Material	Pump Stroke Length	Qualifier

Pneumatic Motor Size		Pump Lower Primary Seal Size (diameter)		Pump Lower Secondary Seal Size (diameter)		Pump Lower Coating		Seal Material		Pump Stroke Length		Qualifier
0250	2-1/2"	038	3/8"	025	1/4"	X	Chromex	C	HNBR	1	1"	
0350	3-1/2"	050	1/2"	050	1/2"	C	Ceramic	D	FFKM			
0450	4-1/2"	075	3/4"	063	5/8"			E	TFE/P			
		100	1"	088	7/8"							

GRACO

ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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