

# Vacuum Pumps, Compressors and Liquid Pumps

## 0.1 to 365 lpm

Rietschle Thomas is the world leader in the production of vacuum pumps and compressors for Original Equipment Manufacturers (OEMs). Our

technical orientation and engineering excellence allows for a quick response to customers' needs. Our company delivers products to over 65 countries

from its seven manufacturing facilities in the US, Europe and Asia.

**Vacuum**

**Pressure**

**Liquid**

Rietschle Thomas smaller pumps are designed to generate both pressure and vacuum. The pressure spectrum ranges from less than 1 mbar (abs) on the vacuum side up to 30 bar (g) on the pressure side. Five operating principles are utilised in covering a multitude of OEM applications.

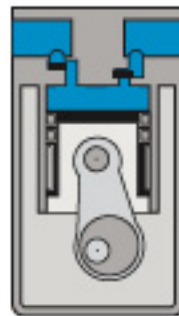
Based on four different operating principles, Rietschle Thomas pumps achieve a flow rate of up to 5 lpm and a pressure of up to 10 bar (g) for liquid applications. These pumps are self-priming and can also be used for dosing purposes.

## Operating Principles



**WOB'L Piston**

Dry running Wob'L piston pump. Best performance characteristics for high pressures. Mainly used as a compressor. Volume flow: 180 lpm (max)  
Max. pressure: 30 bar (g)



**Articulating Piston**

Dry running piston pump. Well suited for applications requiring high pressures. Mainly used as a compressor. Volume flow: 370 lpm (max)  
Max. pressure: 10 bar (g)



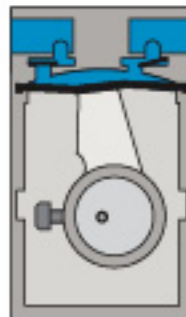
**Liquid**

Applied operating principles: diaphragm (motor or linear drive), peristaltic (direct or gear drive), rotary vane or Gerotor. Free flow: 5 lpm (max)  
Suction height: 8 m H<sub>2</sub>O (max)  
Pressure height: 100 m H<sub>2</sub>O (max)



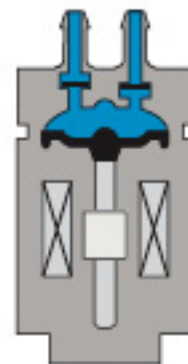
**Rotary Vane**

Dry running and self-lubricating rotary vane pump. Low vibration, nearly pulsation free, compact and in some cases reversible. Mainly used as a vacuum pump. Volume flow: 283 lpm (max)  
Max. pressure: 1.6 bar (g)  
Typical end vacuum: 150 mbar (abs)



**Diaphragm**

Dry running diaphragm pump. Characterised by a high efficiency, low noise level and good tightness. Adapts well to different gases. Used equally as a compressor and vacuum pump. Volume flow: 90 lpm (max)  
Max. pressure: 2.8 bar (g)  
End vacuum: < 1 mbar



**Linear**

Dry running diaphragm pump. Two different means of actuation: linear and vibrating armature. Very high life time, low noise level and high efficiency. Used as a vacuum and pressure pump. Volume flow: 300 lpm (max)  
Max. pressure: 0.7 bar (g)  
Vacuum: -550 mbar (rel)

# Vacuum

# Pressure

## WOB'L Piston

125/215	1 size
307/327/337	3 sizes
405/415/2415	4 sizes
607/668/669/688/689	5 sizes
2660/2668/2669	8 sizes
2680/2688/2689	8 sizes

Volume flow up to 180 lpm / 6.4 cfm  
 Max. vacuum -982 mbar / 29 in. Hg  
 Overpressure up to 30 bar (g) / 435 psig



## Diaphragm

007	2 sizes
107/2107/905/907/910/917	6 sizes
2207/2907	2 sizes
8010/8015	3 sizes
8011/8111 / 8030/8060	1 size
8025/8050	2 sizes

Volume flow up to 90 lpm / 3.2 cfm  
 Max. vacuum 1 mbar (abs) / 0.75 Torr  
 Overpressure up to 2.8 bar (g) / 41 psig



## Miniature Rotary Vane

G/01 / G/02	7 sizes
G/04	3 sizes
G/045	5 sizes
G/07 / G/08	4 sizes
G/09	1 size
W05 / W08	2 sizes

Volume flow up to 38 lpm / 1.3 cfm  
 Max. vacuum -820 mbar / 24 in. Hg  
 Overpressure up to 1.4 bar (g) / 20 psig



## Miniature WOB'L Piston

8003	1 size
8005/8006	2 sizes
8009	3 sizes
010	1 size
014	3 sizes

Volume flow up to 35 lpm / 1.2 cfm  
 Max. vacuum -800 mbar / 24 in. Hg  
 Overpressure up to 7 bar (g) / 102 psig



## Miniature Diaphragm

2002/2003/3003	1 size
3013	2 sizes
5002	3 sizes
5003/5010/7006	1 size
7010	3 sizes
7011/7015	1 size

Volume flow up to 32 lpm / 1.1 cfm  
 Max. vacuum -970 mbar / 29 in. Hg  
 Overpressure up to 2.5 bar (g) / 36 psig



## Linear

YP / LP	8 / 9 sizes
6027	1 size
100*/120*/200*	1 size
300*/310/360*	1 size
D300*/Q500*/Q800*	1 size

\*means of actuation: vibrating armature  
 Volume flow up to 300 lpm / 10.6 cfm  
 Max. vacuum -550 mbar / 16 in. Hg  
 Overpressure up to 0.7 bar (g) / 10 psig



## Articulating Piston

LGH & GH	22 sizes
HP	5 sizes
TA	21 sizes
VX	5 sizes

Volume flow up to 370 lpm / 13 cfm  
 Max. vacuum -932 mbar / 28 in. Hg  
 Overpressure up to 10 bar (g) / 145 psig



## Rotary Vane

QR	4 sizes
TA	9 sizes
TF	14 sizes
SR / TF ECO	2 sizes

Volume flow up to 283 lpm / 10 cfm  
 Max. vacuum 10 mbar (abs) / 7.5 Torr  
 Overpressure up to 1.6 bar (g) / 23 psig



## Miniature Linear

SMG	2 sizes
LM	2 sizes

Volume flow up to 22 lpm / 0.8 cfm  
 Max. vacuum -350 mbar / 10 in. Hg  
 Overpressure up to 0.4 bar (g) / 6 psig

