PUMPING ELEMENT



Fixed Delivery | up to 1.07cc/ stroke | 700 bar

Specification/ Technical Data

Max. Operating Pressure	700 bar	
Flow Range	0.391.54 LPM	
Туре	Fixed Displacement	
Operating Principle	Reciprocating Piston	
Min - Max Stroke	300 - 2000 stk/ min	
Suction & Delivery Valve	In-built	
Body Material	Carbon Steel	
Media	Mineral Oil	
Oil Temperature Range	+10 to 60°C	
Oil Viscosity	ISO VG 46-100	
Oil Cleanliness (ISO 4406)	20/18 /15	
Assembly	Oil Immersed	
Weight (approx.)	0.28 Kg	





Pumping elements PA are modules used for delivering fluid flow in radial piston pumps. The modules can be used as individual assemblies to build custom pumps or for replacement in FLUIDIK make pumps. The elements are available with various diameters and strokes, capable of delivering flows up to 1.07 cc/stroke and pressures up to 700 bar.

The elements are most commonly driven by electric motors through a rotating shaft, which is converted into reciprocating motion using an eccentrically mounted bearing. The radial piston pumps are not direction specific and may be used either in CW or CCW directions. These pumps are most popular for high-pressure applications, and their salient features include the ability to design custom flow requirements and multiple port configuration options.

Model	Displacement	Flow	Max Op. Pressure	Weight
PA07	0.27 cc/stroke	0.39 LPM	700 bar	
PA08	0.35 cc/stroke	0.50 LPM	700 bar	
PA09	0.44 cc/stroke	0.63 LPM	700 bar	
PA10	0.55 cc/stroke	0.79 LPM	550 bar	0.20 1/2
PA11	0.66 cc/stroke	0.95 LPM	450 bar	0.28 Kg
PA12	0.79 cc/stroke	1.14 LPM	250 bar	
PA13	0.93 cc/stroke	1.34 LPM	200 bar	
PA14	1.07 cc/stroke	1.54 LPM	100 bar	

Geometric Displacement @ 7mm stroke Flow in LPM @ 1440RPM

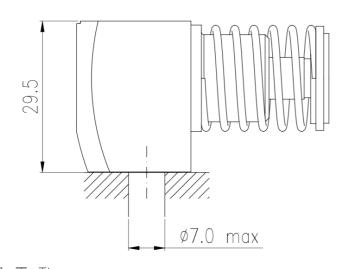
Refer radial piston pump catalogs for HP, RP, RPO and RPX for details on complete pump requirement.

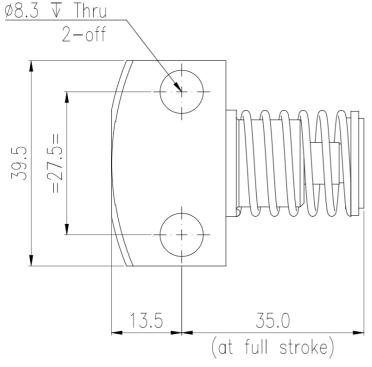
Ordering Information

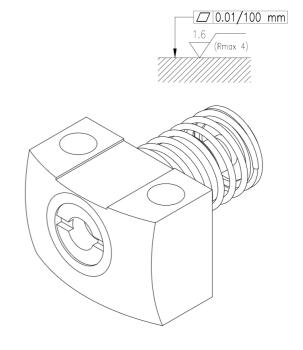
Basic Code	Pumping Element	PA
Size	0714	0714
Version		1x

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Dimensions



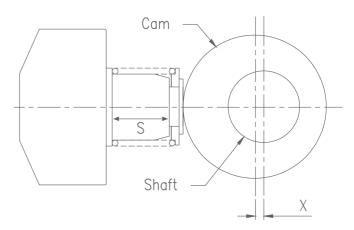




Note:

- Inlet port should be always below oil level to prevent air entrapment and ensure sufficient lubrication to piston and bearing components during operation
- Oil cleanliness will have a impact on the performance, life and efficiency of the pumping element.

Installation



All dimensions in mm

Spare List

SealKit SSVPA1x

Stroke (S) = 2XMinimum Stroke = 5mmOptimal Stroke = 7mm $V_g = cc/$ stroke = $0.785 \times D^2 \times S$ where, D is diameter of PA in cm (0.7 to 1.4cm) S is Stroke in cm

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