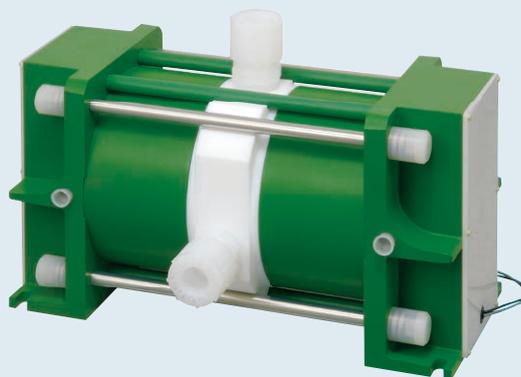


# PK Series Large Flow Rate Bellows Pump

PILLAR

Large flow rate type coping with high driving pressure

Separately arranged accumulator can reduce pulsation



## ■ Features

### ■ Coping with high driving pressure

This product can also be used for applications that require high lift.

### ■ Action against water hammer

This product employs a structure to reduce vibration on inlet pipes.

### ■ Low pulsation achieved with the dedicated accumulator

Separately arranging an accumulator dedicated to the PK series makes it possible to achieve low-pulsation discharge.

## ■ Specifications

Pump model	PK-100H				
Pump connection size*1	mm	1-1/4" ( φ 31.8)			
Pump connector		Super 300 Type Pillar Fitting™			
Max discharge capacity	L/min	121			
Operating temperature	°C	10 to 40	41 to 100	101 to 140	141 to 180
Supply air pressure	MPaG	0.2 to 0.7	0.2 to 0.4	0.2 to 0.3	0.15 to 0.2
Max discharge pressure	MPaG	0.65	0.35	0.25	0.15
Allowable differential pressure of bellows*2	MPa	0.4	0.3	0.2	0.15
Discharge capacity per stroke*3	L	1.27			
Air consumption	L/min (Normal)	45 to 1750			
Ambient temperature	°C	10 to 50			
Effective cross-sectional area of solenoid valve	mm <sup>2</sup>	75 or more			
Air inlet ports		2-Rc1/2			
Weight	kg	Approx. 53.5			
Pump size (excluding piping)*4	mm	Max. 533.2 <sup>L</sup> × 235 <sup>W</sup> × 292 <sup>H</sup>			

\*1: To obtain performance with this pump, pipes with the pump connection size shown above are required. Install the pump so that the length of the suction pipe does not exceed two meters.

\*2: Allowable differential pressure of bellows = Air supply pressure - Discharge pressure

\*3: This is a reference value. Make sure that the stroke speed is always 100 spm or lower.

\*4: The pump size is a reference value.

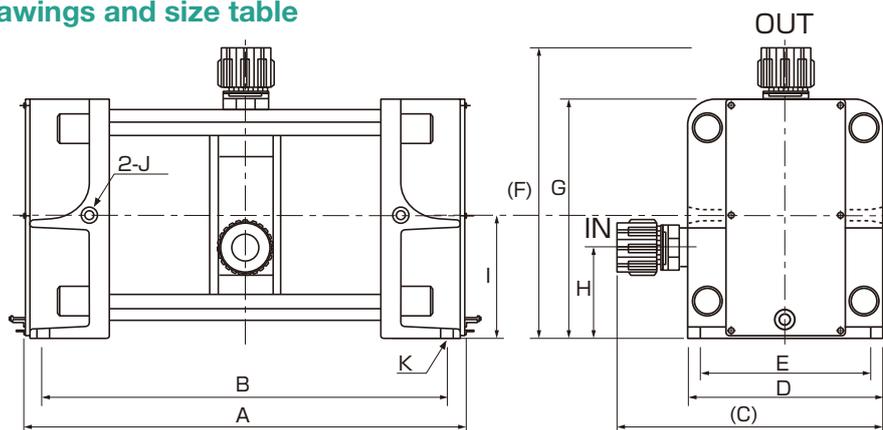
Notes 1) If the fluid to be used requires anti-explosion treatment because it is an organic or similar liquid, anti-explosive pumps with proximity sensors are available. Please consult with us separately for more information.

2) If the fluid to be used is CMP slurry, we recommend the "PC series slurry pump" dedicated to use with CMP slurry.

**NIPPON PILLAR PACKING CO., LTD.**

# Large Flow Rate Bellows Pump PK Series

## Structural drawings and size table



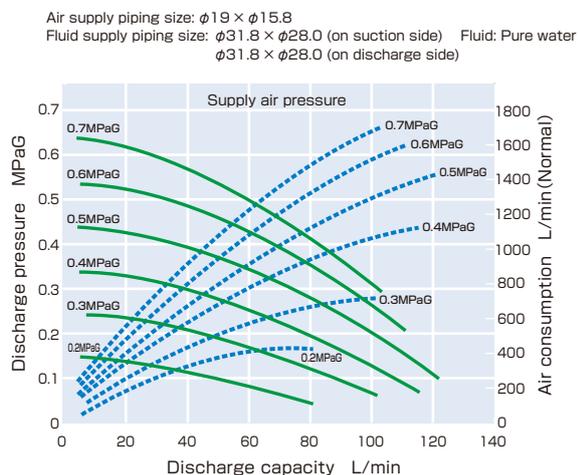
Unit: mm

	A	B	(C)	D	E	(F)	G	H	I	J	K
PK-100H	533.2	491.2	322	235	208	355.5	292	112	151	Rc 1/2	4 - $\phi$ 14

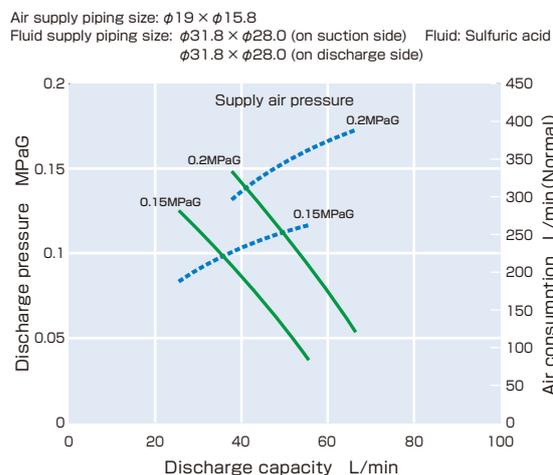
## Performance curve

H-Q characteristics — Air consumption - - - - -

Temperature: 25°C



Temperature: 180°C



## PK series specific auto accumulator PA-100H

If the PK series bellows pump requires smooth liquid flow, please use this PA series auto accumulator in combination with the pump.



Auto accumulator model		PA-100H
Applicable pump		PK-100H
Auto accumulator connection diameter	mm	1-1/4" ( $\phi$ 31.8)
Auto accumulator connector		Super 300 Type Pillar Fitting™
Pulsation pressure range		Within $\pm 12.5\%$ of the pump discharge pressure when it is 0.2 MPaG or more 0.04 MPa or lower when the pump discharge pressure is less than 0.2 MPaG
Air inlet ports	inch	Rc 1/4
Weight	kg	Approx. 22.0
Accumulator size (excluding piping)*1	mm	228 <sup>t</sup> × 265 <sup>w</sup> × 328 <sup>h</sup>

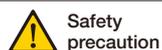
\*1: The size is a reference value.

**PILLAR** NIPPON PILLAR PACKING CO., LTD.

Head office/Sales Headquarters  
 7-1, Shinmachi 1-chome, Nishi-ku, Osaka 550-0013, Japan  
 Phone: +81-6-7166-8326 Fax: +81-6-7166-8514

Email : [sales@pillar.co.jp](mailto:sales@pillar.co.jp)

<https://www3.pillar.co.jp/en/product/>



**Safety precaution**

● When using this product, please use correctly and pay sufficient attention to safety.

\* Please understand that this catalog may change without prior notice.  
 \* The values shown on this catalog are reference values, not guaranteed values.

PPLC2263-1/CAT.No.231020