VACUFORCE®

VACUUM CYLINDERS

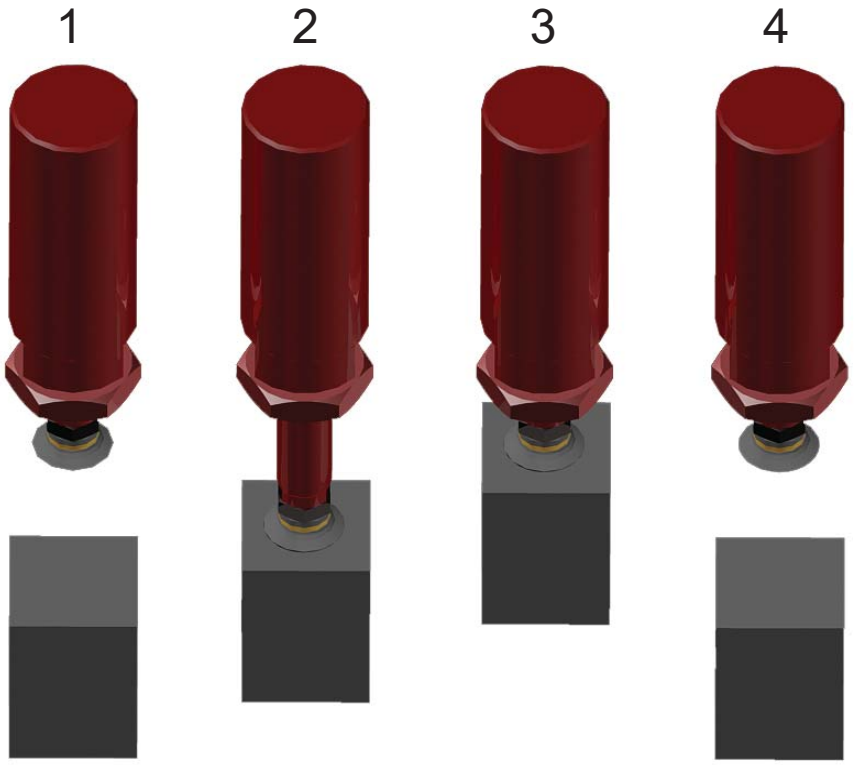
VC VACUUM CYLINDERS

ADVANTAGES

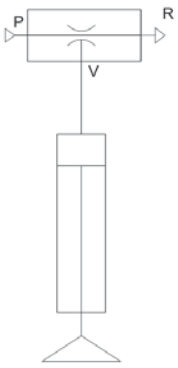
- No additional controls are required
- Short cycle times compared to traditional pick and place
- Short cycle times means less leakage on porous product handling
- Maintenance and lubrication free

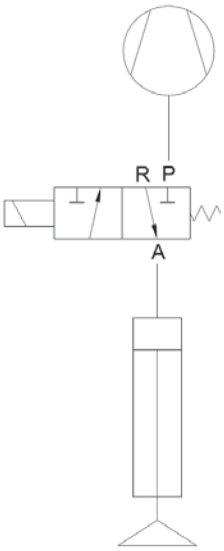
FUNCTION

- The vacuum cylinders are in a rest position with piston retracted in the up position **(1)**
- When vacuum is applied, the piston moves downwards (extends) until the vacuum cup which is attached to the piston via the connection thread, seals against the load to be lifted **(2)**
- Both sides of the cylinder are now equalized and the internal spring retracts the cylinder rod to its original position holding the part securely **(3)**
- Once vacuum is turned off the part is released from the vacuum suction cup **(4)**



TYPICAL CIRCUITS





VC VACUUM CYLINDERS

VC	17	SEN

Series
VC

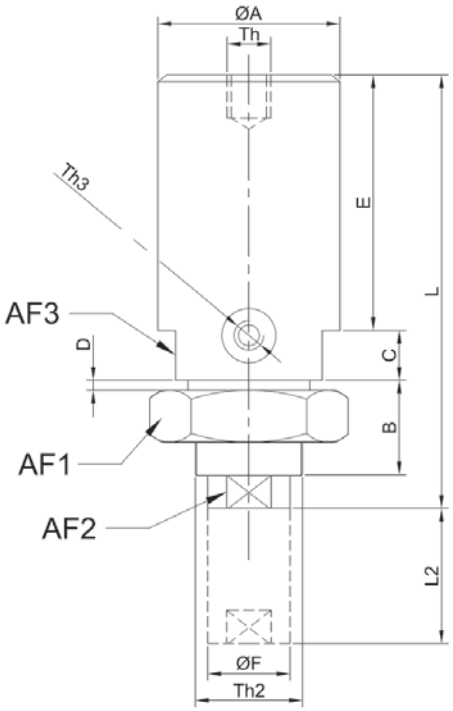
Model	Stroke
17	17mm
25	25mm
50	50mm

Cylinder Sensor	
SEN	Yes
	No

SPECIFICATIONS

Model	VC17	VC25	VC50
Stroke	17	25	50
Lifting Force	5N / 0.5kg / 1lb	12N / 1.2kg / 2.5lb	
Min Flow Required	5l/min / 0.17CFM	7.5l/min / 0.25CFM	25l/min / 0.88CFM
Cycle Time	0.3sec	0.4sec	0.25sec
Weight	50g / 1.75oz	145g / 5.1oz	310g / 10.9oz

DIMENSIONS (mm)



PORT DESIGNATIONS

Th	Mounting Thread Vertical
Th2	Mounting Thread Bulkhead
Th3	Vacuum Port
Th4	Vacuum Cup Port

cylinder sensor option (SEN)

Model	ØA	ØF	B	C	D	E	L	L2	Th	Th2	Th3	Th4	AF1	AF2	AF3
VC17	24	10	12	7	2	33	56	17	M6	M16 x 1.5	M5	M5	24	8	19
VC25	35	15	16	8.5	3	48	78	25	M8	M22 x 1.5		G1/8	32	12	27
VC50						75		50							

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NOTES