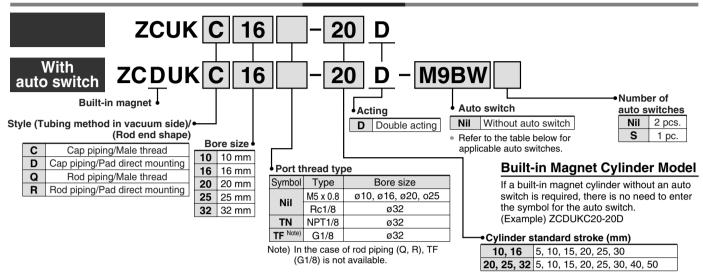
Free Mount Cylinder for Vacuum Series ZCUK

How to Order



Applicable Auto Switch/Refer to Best Pneumatics No. 2 for the detailed specifications on auto switches.

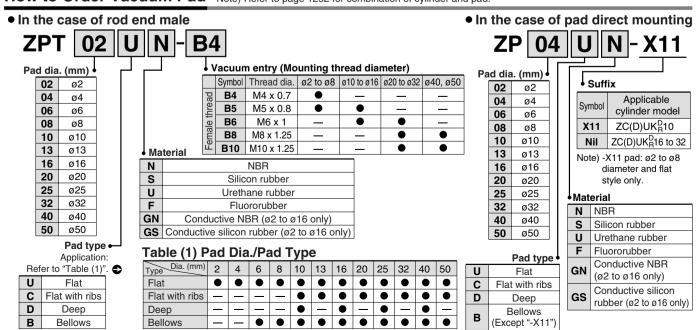
Туре		Electrical	light		L	oad volta	ge	Auto switch model	ch model	Lead wire length		n (m)	Pre-wired				
	Special function	entry	Indicator	Wiring (Output)	D	С	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Applicable load		
				3-wire (NPN)		5 V. 12 V		M9NV	M9N	•	•	•	0	0	IC		
switch	_			3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	circuit		
Š		Grommet	es	2-wire	24.1/	24 V 12 V 5 V, 12 V	, 12 V		M9BV	M9B	•	•	•	0	0	_	Relay,
Reed :	Diagnostic indication (2-color indication)	agnostic indication	>	3-wire (NPN)) 24 V		_	M9NWV	M9NW	•	•	•	0	0	IC PLC circuit		
				3-wire (PNP)				M9PWV	M9PW	•	•	•	0	0			
	,			2-wire		12 V		M9BWV	M9BW	•	•	•	0	0			
Solid state switch		Grommet	ŕes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	_	•	_	_	IC circuit	_	
	_	Gronnet		2-wire	04.1/	24 V 12 V	100 V	A93V	A93	•	_	•	_	_	_	Relay,	
			No	∠-wire	24 V	12 V	100 V or less	A90V	A90	•				_	IC circuit	PLC	

* Lead wire length symbols: 0.5 m----- Nil

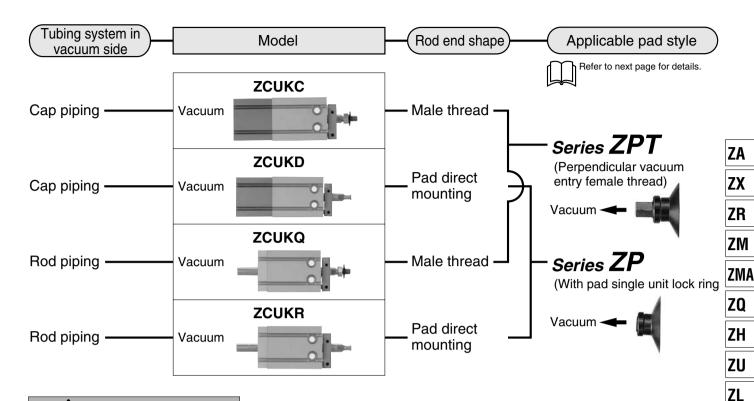
1250

- 5 m······ Nil (Example) M9NW 1 m····· M (Example) M9NWI
- 1 m······· M (Example) M9NWM 3 m······ L (Example) M9NWL
- 3 m······ L (Example) M9NWL
- Solid state auto switches marked with "O" are produced upon receipt of order.
- Refer to pages 796 and 797 for the details on auto switches with a prewired connector.
- * Auto switches are shipped together but not assembled.

How to Order Vacuum Pad Note) Refer to page 1252 for combination of cylinder and pad.



Free Mount Cylinder for Vacuum Series ZCUK



A Precautions

Be sure to read before han- I dling.

Refer to front matters 38 and 39 for Safety Instructions and pages 844 to 846 for Vacuum Equipment Precautions.

⚠ Caution

 Do not place your finger in the clearance between the detent plate and the cylinder tube. Never put your finger between the non-rotating plate and cylinder tube. Your finger may be pinched when the piston rod retracts.

If your finger is caught, it could injure your finger because the cylinder outputs a considerable amount of force.

Make sure that rotational torque is not applied to the piston rod. If this is unavoidable, operate the cylinder within the allowable rotational torque listed in the table below.

Allowable Rotational Torque

					ø 32
Allowable rotational torque (N·m)	0.02	0.04	0.10	0.15	0.20

- To secure a workpiece to the end of the piston rod, tighten the workpiece onto the piston rod with the piston rod fully retracted so that torque is not applied to the piston rod.
- **4.** To install a cylinder, tighten it within the torque values indicated in the table below.

Proper Tightening Torque

	.9	0.900
Bore size (mm)	Hexagon socket head bolt diameter (mm)	Proper tightening torque (N·m)
ø10	M3	1.08 ± 10%
ø 16	M4	2.45 ± 10%
ø 20 , ø 25	M5	5.10 ± 10%
ø 32	M6	8.04 ± 10%

Specifications

Bore size (mm)	ø10	ø 16	ø 20	ø 25	ø 32				
Fluid		Air							
Proof pressure			1.05 MPa						
Maximum operating pressure		0.7 MPa							
Minimum operating pressure	0.13	0.13 MPa 0.11 MPa							
Vacuum nort processe		-101	kPa to 0.6	MPa					
Vacuum port pressure	(At vacuum release 0 to 0.6 MPa) Note)								
Ambient and fluid temperature	Without	Without auto switch: -10 to +70°C (No freezing							
Ambient and fluid temperature	With a	With auto switch: -10 to +60°C (No freezing)							
Lubrication		Not required							
Piston speed		50 to 500 mm/s							
Cushion		Rubber bumper on both sides							
Stroke allowance		+1.0 0							
Rod tip screw	Wi	With or without (Pad direct mounting)							
Mounting		Basic style							
Applicable pad		Refer to next page for details.							

Note) For a cap style, supply pressure only when vacuum is released. That pressure should be less than the cylinder pressure.

Non-rotating Rod Accuracy (No load/At retraction of the rod at the locking plateside)

<u>`</u>					
Bore size (mm)		ø 16	ø 20	ø 25	ø 32
Non-rotating rod accuracy		.8°		±0.5°	



ZY□

ZF□

ZP□

SP

ZCUK

AMJ

AMV

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