

Clean Series Compact Cylinder
(square tube)/Double Acting, Single Rod

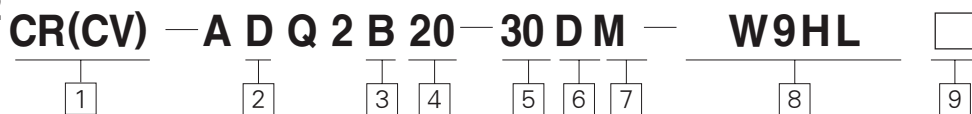
How to Order

Series CR(CV)AQ2, ADQ2

Bore Size : ϕ 12, ϕ 16, ϕ 20, ϕ 25,
 ϕ 32, ϕ 40, ϕ 50, ϕ 63
 ϕ 80, ϕ 100



- Low particle generation for clean room applications
- Stainless steel piston rod(resistant to moisture and otehr chemicals)



1 Clean Series

CR : Relief Port Type
CV : Vacuum Suction Type

2 Attaching Auto Switch

Blank : basic type
D : attaching auto switch(built-in magnet)

3 Attaching Type

B : ϕ 12, ϕ 16, ϕ 20, ϕ 25
Penetrating hole, common tap at both ends(standard)
 ϕ 32, ϕ 40, ϕ 50, ϕ 63, ϕ 80, ϕ 100
Penetrating hole(standard)

4 Bore Size

12 : 12mm	16 : 16mm
20 : 20mm	25 : 25mm
32 : 32mm	40 : 40mm
50 : 50mm	63 : 63mm
80 : 80mm	100 : 100mm

5 Cylinder Stroke(mm)

Please refer to the table of cylinder stroke.

6 Operating Type

D : double acting

7 Feature of Body

Blank : standard type
(female screw at the end of rod)
M : male screw at the end of rod

8 Sorts of Auto Switch

Blank : non-auto switch
(cylinder with built-in magnet)
W***:compact auto switch(ϕ 4)
※ W*** type is basic for square tube of ϕ 12~ ϕ 25.
※ For length of lead wire over 3m, L is added to the end of part number. ex)W4L
※ For length of lead wire over 5m, please contact us.

9 Symbols of Auto Switch

Blank : 2 pieces attached
S : 1 pieces attached
n : n pieces attached

Specifications

Bore Size		ϕ 12, ϕ 16, ϕ 20, ϕ 25, ϕ 32, ϕ 40, ϕ 50, ϕ 63, ϕ 80, ϕ 100
Models		Relief Port Type, Vacuum Suction Type
Operation Type		Double Acting, Single Rod(Non-Lubrication)
Port Size	ϕ 12~ ϕ 25	M5×0.8
	ϕ 32	Rc(PT) 1/8(※M5×0.8 : 5st only)
	ϕ 40	Rc(PT) 1/8
	ϕ 50, ϕ 63	Rc(PT) 1/4
	ϕ 80, ϕ 100	Rc(PT) 3/8
Fluid		Air
Proof Pressure		1.5MPa(217.6psi)
Max. Operation Pressure		1.0MPa(140.8psi)
Min. Operation Pressure		0.05MPa(7.1psi)
Ambient and Fluid Temperature · °C(°F)		-10°C~70°C(14~158°F)(Anti Freezing)
Cushion		None
Mounting		ϕ 12~ ϕ 25 : Through Hole, Common tap at both ends
Stroke Tolerance		$^{+1.0}_0$ mm
Piston Speed		50~400mm/s

Table of standard stroke/air pressure(no lubrication type)

(Unit:mm)

Bore Size	Cylinder stroke
12, 16	5, 10, 15, 20, 25, 30
20, 25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50
32, 40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
50, 63	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100
80, 100	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100

⚠ Cautions

※ Production of middle stroke
By installing spacer in the cylinder of standard stroke, it is possible to produce middle stroke at every 3mm.
Ex) For AQ2B20-37D, spacer with width of 13mm is installed in the cylinder of standard stroke AQ2B20-50D.