

Compact Cylinder Series AQ2/UADQ2

Bore Size : ϕ 12, ϕ 16, ϕ 20, ϕ 25,
 ϕ 32, ϕ 40, ϕ 50, ϕ 63,
 ϕ 80, ϕ 100, ϕ 125



- Auto switch mounting allows for flexible designing requirements.
- Long stroke, available.

| Bore Size (mm) | Port Size | | Stroke(mm) *1 | | | | |
|----------------|-----------|------------|---|---|---|---|---|
| | AQ2/ADQ2 | UAQ2/UADQ2 | Double Acting | | | Single Acting | |
| | Rc(PT) | UNF/NPT | Single Rod | Double Rod | Non Rotating | Spring Return | Spring Extended |
| ϕ 12 | M5×0.8 | 10~32 UNF | 5, 10, 15, 20, 25, 30, (35, 40, 45, 50) | 5, 10, 15, 20, 25, 30 | N/A | 5, 10 | 5, 10 |
| ϕ 16 | M5×0.8 | 10~32 UNF | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | N/A | | N/A | N/A |
| ϕ 20 | M5×0.8 | 10~32 UNF | | | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 | N/A | 5, 10 |
| ϕ 25 | M5×0.8 | 10~32 UNF | *5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150, 175, 200, 250, 300 | *5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 | | | *5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 |
| ϕ 32 | 1/8 | 1/8 | | | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150, 175, 200, 250, 300 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 | 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 |
| ϕ 40 | 1/8 | 1/8 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150, 175, 200, 250, 300 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 | | | N/A |
| ϕ 50 | 1/4 | 1/4 | | | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150, 175, 200, 250, 300 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 | |
| ϕ 63 | 1/4 | 1/4 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150, 175, 200, 250, 300 | 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100 | | | N/A |
| ϕ 80 | 3/8 | 3/8 | | | 10, 20, 30, 40, 50, 75, 100, 125, 150 | N/A | |
| ϕ 100 | 3/8 | 3/8 | 10, 20, 30, 40, 50, 75, 100, 125, 150 | N/A | | | N/A |
| ϕ 125 | 3/8 | 3/8 | | | | | |

*1. Intermediate Stroke : A spacer of 5, 10, 15 and 20 mm is used for intermediate strokes between 55 and 100 mm stroke (for example 55, 60, 65 etc.)
[Example : AQ2B50-55D is produced by installing 20 mm spacer in AQ2B50-75D]

*Note : At ϕ 32-5mm StrokePort Sizes is AQ2@ M5×0.8 UAQ2@ 10-32UNF. (Non-Built in Magnet only)

※ () : long stroke.

How to Order

Standard Type

1 A Q2

3 W 4 5 B 20 30 6 D 7 C 8

With Auto Switch

1 ADQ2

3 W 4 5 B 20 30 6 D 7 C 8 9 W4 10 S 11

Order Made Option

- XC 8 : Adjustable Stroke Cylinder / Extension Adjustable Type
XC 9 : Adjustable Stroke Cylinder / Retraction Adjustable Type
XC10 : Dual Stroke Cylinder / Double Rod Type
XC11 : Dual Stroke Cylinder / Single Rod Type
X163 : Coil Scraper (Metal scraper) Type

1 Series

Blank : Metric(PT)
U : NPT

2 Magnet

Blank : Without Magnet
D : Built-in Magnet

3 Model

Blank : Single Rod
W : Double Rod
K : Non-Rotating

4 Type & Mounting

B : Through Hole (Standard Type)
A : Both Ends Tapped
D : Double clevis(Both end tapped)
F : Rod side flange(Both end tapped)
G : Head side flange(Both end tapped)
L : Foot(Both end tapped)

5 Bore Size

12 : ϕ 12mm (1/2inch)
16 : ϕ 16mm (5/8inch)

- 20 : ϕ 20mm (3/4inch)
25 : ϕ 25mm (1inch)
32 : ϕ 32mm (1 1/4inch)
40 : ϕ 40mm (1 5/8inch)
50 : ϕ 50mm (2inch)
63 : ϕ 63mm (2 1/2inch)
80 : ϕ 80mm (3 1/4inch)
100 : ϕ 100mm (4inch)
125 : ϕ 125mm (5inch)

6 Cylinder Stroke(mm)

∴ Refer to the upside table

7 Action

D : Double Acting
S : Single Acting/Spring Return
T : Single Acting/Spring Extended

8 Body Option

Blank : Standard
C : Rubber Cushion
M : Rod End Male Thread
F : Rear Boss Mount

9 Special Option

Blank : Standard Type
XC16 : Copper-Free

10 Applicable Auto Switches

Blank : Without Auto Switch
W4 : Reed Switch
W8V : Reed Switch (Vertical Type)
W8H : Reed Switch (Horizontal Type)
W9V : Solid State Switche (Vertical Type)
W9H : Solid State Switche (Horizontal Type)
W9HN : Solid State Switche (3 Wire, NPN)
W9HP : Solid State Switche (3 wire, PNP)

※ Standard auto switch lead wire length is 1m.
3m lead available on all models by adding a "L" suffix to the part number. (ex:W8HL,W9VL)

11 Number of Switches

Blank : 2 pcs.
S : 1 pc.
: Enter Required Number of Switches.

Specifications

| Type | Air Pressure(Non-Lubrication) Type |
|-------------------------------|-------------------------------------|
| Fluid | Air |
| Proof Pressure | 1.5MPa (217psi) |
| Max. Operation Pressure | 1.0MPa (142psi) |
| Ambient and Fluid Temperature | -10℃ ~ 70℃ (14~158℉) (Non Freezing) |
| Cushion | None |
| Rod End Thread | Female Thread |
| Rod End Thread Tolerance | KS Class 2 |
| Stroke Tolerance | +1.0 0 |
| Mounting | Through Hole(Standard) |
| Piston Speed | 50 ~ 500 mm/s |

※ Cautions

Production of middle stroke

By installing spacer in the cylinder of standard stroke, it is possible to produce middle stroke at every 1mm.
Ex) For AQ2WB16-27D, spacer with width of 3mm is installed in the cylinder of standard stroke AQ2WB16-30D.

- ACP/ UACP
- APM
- AS
- AX
- AM
- AM2
- AL/ ALX
- AQ/ UAQ
- ADQCP**
- AQ2/ UADQ2**
- AG/ UAG
- NGQ/ UNGQ
- AJ/ AJM
- ABK
- NSK
- GX/ AGX
- NDM
- ADR
- AMR/ UAMR
- NST
- AST
- ASTH
- NF
- NLCD
- NLCS
- TCRL
- NP
- ARD/ UARD
- NR
- ASL
- SB
- SAH
- CR/ CV
- CR/ CV-AQ2,ADQ2
- CR/ CV-AX
- CR/ CV-NLCD
- CR/ CV-AGL
- DR100
- RS
- DV1000/ 3000/4000
- DS300 DS2000