

Series **ARD**

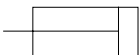
Round Cylinder/Double Acting

Bore size : $\varnothing 32$, $\varnothing 40$, $\varnothing 50$, $\varnothing 63$



- COMPACT LIGHT DESIGN
- HIGH SPEED ACTUATOR
- 2 TYPES OF AIR CUSHION (AIR/RUBBER)
- LIGHT WEIGHT

Symbol



How To Order

ARD B A 40 — 150 — W4

1 2 3 4 5 6 7

1 Round Cylinder
* (Built-in Magnet, Bumper, Non-lube standard)

2 Mounting
B : Basic type

3 Cushion
Blank : Rubber Cushion
A : Air Cushion

4 Bore Size(mm)
32 : 32mm
40 : 40mm
50 : 50mm
63 : 63mm

5 Stroke(mm)

6 Applicable Reed Switch
Auto Switch
Blank : Without Auto Switch
(Cylinder with built-in Magnet)
Reed Switch
W4(2wire DC24V, AC 100V)
Band mounted type(Grommate)
※ Standard Lead 1m
(upto 3m optional)

7 Number of Switches
Blank : 2 pcs.
S : 1 pc.
n : n pcs.

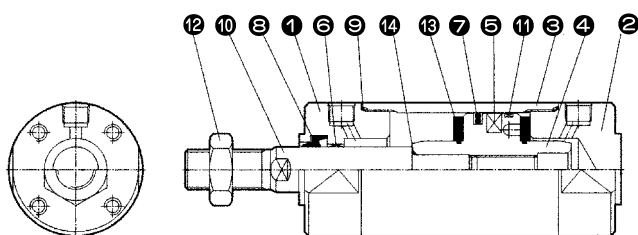
Stroke			
Rubber Cushion	Stroke	Air Cushion	Stroke
$\varnothing 32$	25~450mm	$\varnothing 32$	25~450mm
$\varnothing 40$	25~800mm	$\varnothing 40$	25~800mm
$\varnothing 50$	25~1200mm	$\varnothing 50$	25~1200mm
$\varnothing 63$	25~1200mm	$\varnothing 63$	25~1200mm

Specifications

Fluid	Air	
Proof Pressure	15 kgf/cm ²	
Max. Operation Pressure	9.9 kgf/cm ²	
Min. Operation Pressure	0.5 kgf/cm ²	
Ambient and Fluid Temperature	5~ 60℃	
Lubrication	None(Non-Lube)	
Piston Speed	50~1000 mm/sec	
Stroke Tolerance	~1000ST: $+1.4_0$ / ~1200ST: $+1.8_0$	
Thread Tolerance	KS 2 Class	
Cushion	Rubber Cushion	Air Cushion

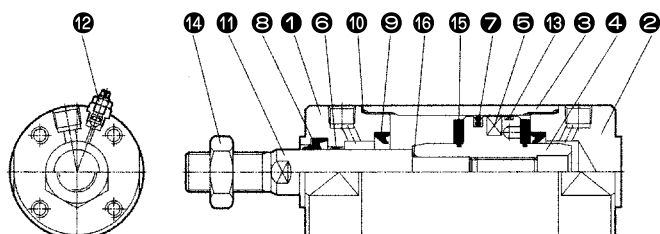
Construction/Parts List

ARD $\varnothing 32 \sim \varnothing 63$ (Rubber Cushion Type)



No.	Description	Material	Note
14	Piston Gasket	NBR	
13	Bumper	Urethane	
12	Rod End Nut	Rolled Steel	
11	Wear Ring	-	
10	Piston Rod	Carbon Steel	
9	Tube Gasket	NBR	
8	Rod Packing	NBR	
7	Piston Packing	NBR	
6	Bush	Lead Bronze Casting	
5	Magnet	Ba Ferrite + NBR	
4	Piston	Al	
3	Cylinder Tube	Al	
2	Head Cover	Al	
1	Rod Cover	Al	

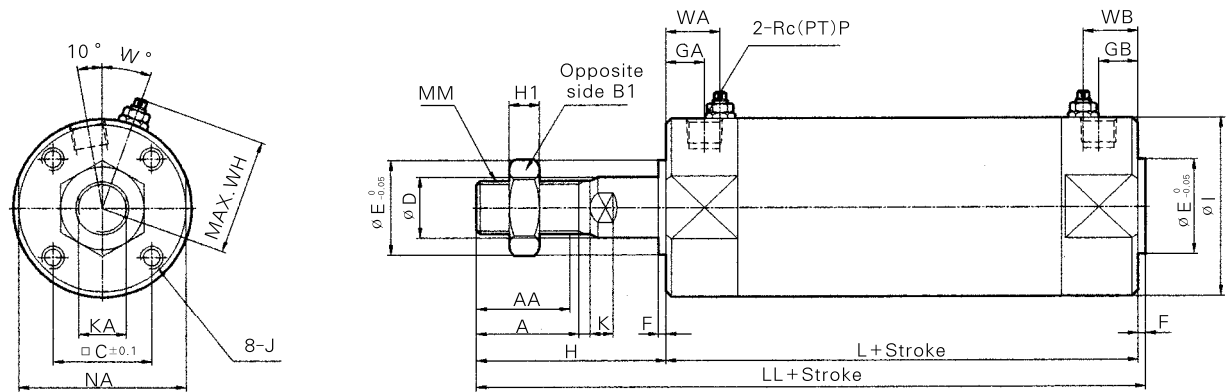
ARDA $\varnothing 32 \sim \varnothing 63$ (Air Cushion Type)



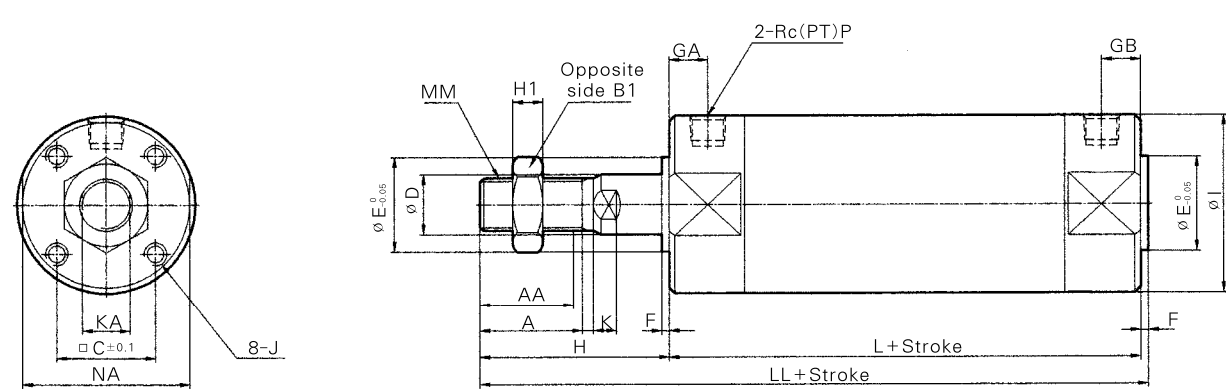
No.	Description	Material	Note
16	Piston Gasket	-	NBR
15	Bumper	Urethane	
14	Rod End Nut	Rolled Steel	
13	Wear Ring	-	
12	Cushion Valve Ass'y		
11	Piston Rod	Carbon Steel	
10	Tube Gasket	NBR	
9	Cushion Packing	NBR	
8	Rod Packing	NBR	
7	Piston Packing	NBR	
6	Bush	Lead Bronze Casting	
5	Magnet	Ba Ferrite + NBR	
4	Piston	Al	
3	Cylinder Tube	Al	
2	Head Cover	Al	
1	Rod Cover	Al	

Dimension (mm)

Air Cushion Type

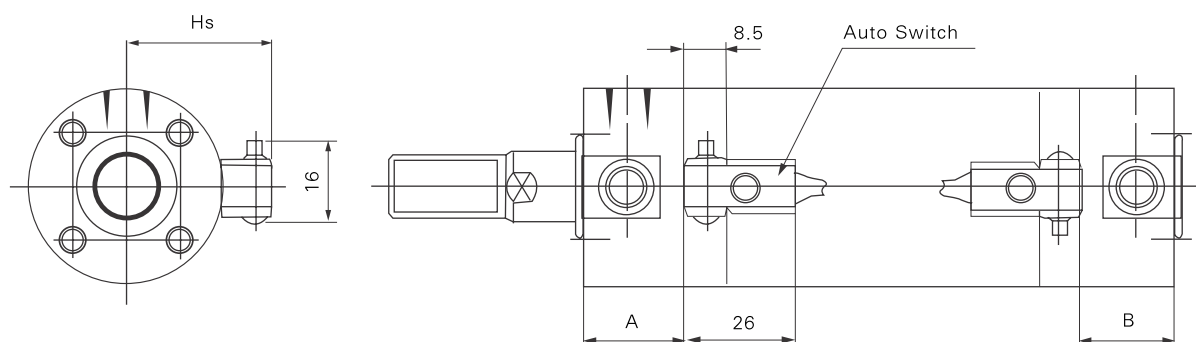


Rubber Cushion Type



		(mm)																							
Bore size (mm)	Standard stroke Range(mm)	AA	A	□C	∅D	∅E	F	GA	GB	∅I	J	K	KA	MM	NA	P	L	H	LL	WA	WB	WH	W	H1	B1
	Extended stroke Range(mm)																								
∅ 32	~300 301~450	19.5	22	20	12	18	2	12	12	38	M5×0.8 DP:8	5.5	10	M10×1.25	36	1/8	82	40	124	14	14	28.5	25	6	17
∅ 40	~300 301~800	27	30	26	16	25	2	13	13	47	M6×1 DP:12	6	14	M14×1.5	44	1/8	87	50	139	15	15	33	20	8	22
∅ 50	~300 301~1200	32	35	32	20	30	2	14	14	58	M8×1.25 DP:16	7	18	M18×1.5	55	1/4	102	58	162	16	16	38.5	20	11	27
∅ 63	~300 301~1200	32	35	38	20	32	2	14	14	72	M10×1.5 DP:16	7	18	M18×1.5	69	1/4	105	58	165	16	16	45.5	20	11	27

Auto Switch Setting Position



Auto Switch Mounting Position

(mm)

Bore size	W4		
	A	B	Hs
ø32	23	33	30.5
ø40	32	29	35
ø50	39.5	37.5	40.5
ø63	41	38	47.5

Minimum Auto Switch Mountable Stroke

(mm)

Type of Auto Switch	Number of Switch		
	With 2pcs.		With 1pc.
	Different Orientation	Same Orientation	
W4	15	50	10

Series **AJ**

Clamp Cylinder/Double Acting

Bore size : $\varnothing 32$, $\varnothing 50$, $\varnothing 63$

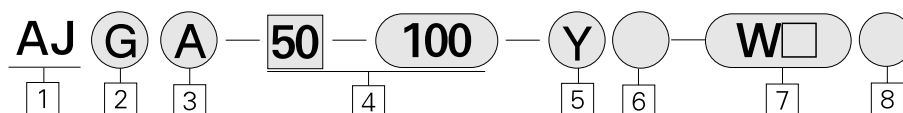


- TWO TYPES OF CLEVIS WIDTH ARE AVAILABLE (16.5mm, 19.5mm)
- THE PIPING ENTRY ORIENTATION CAN BE SELECTED
- EVEN MORE COMPACT AND LIGHT WEIGHT
- NON LUBE TYPE
- POSSIBLE TO DISASSEMBLE
- BUILT - IN SPEED CONTROLLER

Symbol



How to Order



1 Clamp Cylinder

2 Magnet

Blank : Without Magnet
G : Built-in Magnet

3 Clevis Width

A : 16.5mm ($\varnothing 50$, $\varnothing 63$)
16^{+0.4}_{-0.2}mm ($\varnothing 32$)
B : 19.5mm ($\varnothing 50$, $\varnothing 63$)

4 Bore Size(mm)-Stroke(mm)

32 : $\varnothing 32$: 50, 75, 100, 125, 150,
200, 250, 300
50 : $\varnothing 50$: 50, 75, 100, 125, 150
63 : $\varnothing 63$: 50, 75, 100, 125, 150

5 Accessories

Blank : None
Y : Double Knuckle joint

6 Mount

B : Limit switch mount
D : Cam mount
19 : Foot mount

7 Applicable Auto Switch

Solid State Switch

W2 : 24VDC, For welding
machine, intense magn-
etic field

Reed Switch

W3 : 24VDC, 100 · 200VAC
W6 : AC100V, OFF Lighting
W7 : DC24V, AC100V, ON
Lighting

8 Number of Switch

Blank : 2 pcs.
S : 1 pc.
Y : n pcs.