

# Series **ARD**

## Round Cylinder/Double Acting

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



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

### 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
$\phi 32$	25~450mm	$\phi 32$	25~450mm
$\phi 40$	25~800mm	$\phi 40$	25~800mm
$\phi 50$	25~1200mm	$\phi 50$	25~1200mm
$\phi 63$	25~1200mm	$\phi 63$	25~1200mm

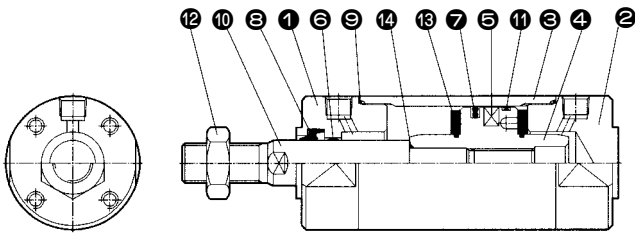
# Series ARD

## Specifications

Fluid	Air	
Proof Pressure	15 kgf/cm <sup>2</sup>	
Max. Operation Pressure	9.9 kgf/cm <sup>2</sup>	
Min. Operation Pressure	0.5 kgf/cm <sup>2</sup>	
Ambient and Fluid Temperature	5~ 60℃	
Lubrication	None(Non-Lube)	
Piston Speed	50~1000 mm/sec	
Stroke Tolerance	~1000ST: $\begin{smallmatrix} +1.4 \\ 0 \end{smallmatrix}$ / ~1200ST: $\begin{smallmatrix} +1.8 \\ 0 \end{smallmatrix}$	
Thread Tolerance	KS 2 Class	
Cushion	Rubber Cushion	Air Cushion

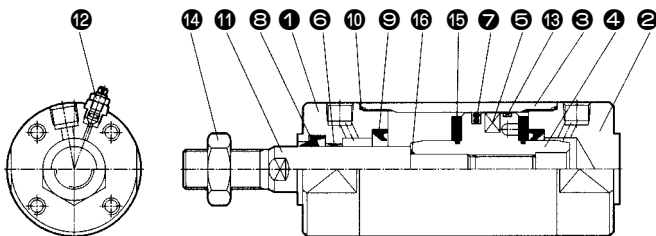
## Construction/Parts List

ARD  $\phi 32 \sim \phi 63$  (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  $\phi 32 \sim \phi 63$  (Air Cushion Type)

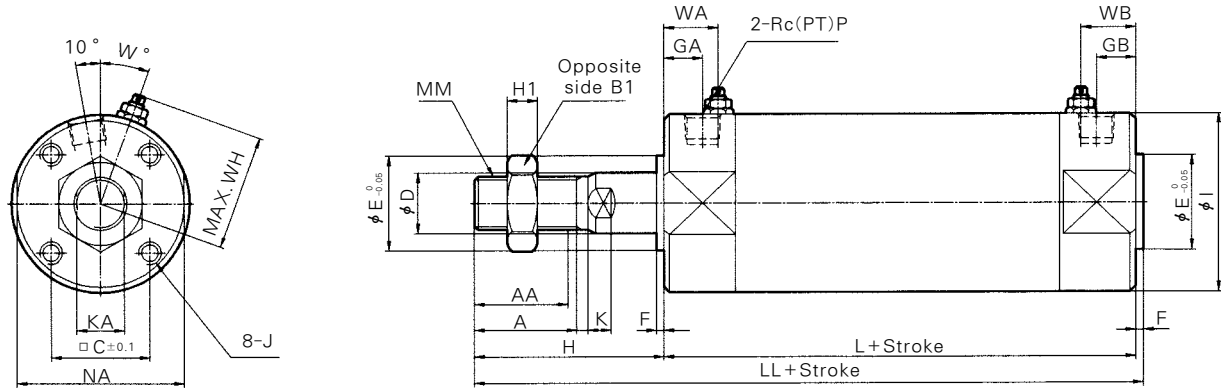


No.	Description	Material	Note
16	Piston Gasket	-	NBR
15	Bumper	Urethane	
14	Rod End Nut	Rolled Steel	
13	Wear Ring	-	
12	Cushion Valve Ass'y		
11	Piston Rod	Carbon Steel	
10	Tube Gasket	NBR	
9	Cushion Packing	NBR	
8	Rod Packing	NBR	
7	Piston Packing	NBR	
6	Bush	Lead Bronze Casting	
5	Magnet	Ba Ferrite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

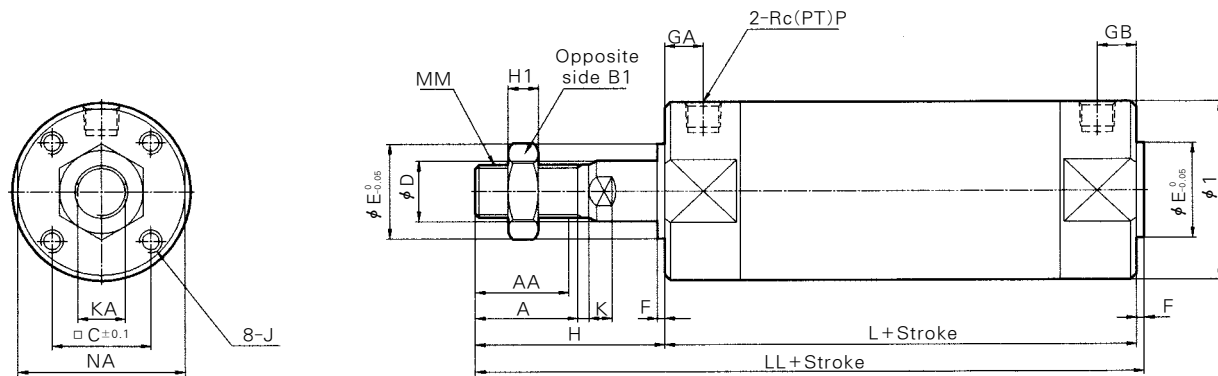
Dimension

(mm)

Air Cushion Type



Rubber Cushion Type

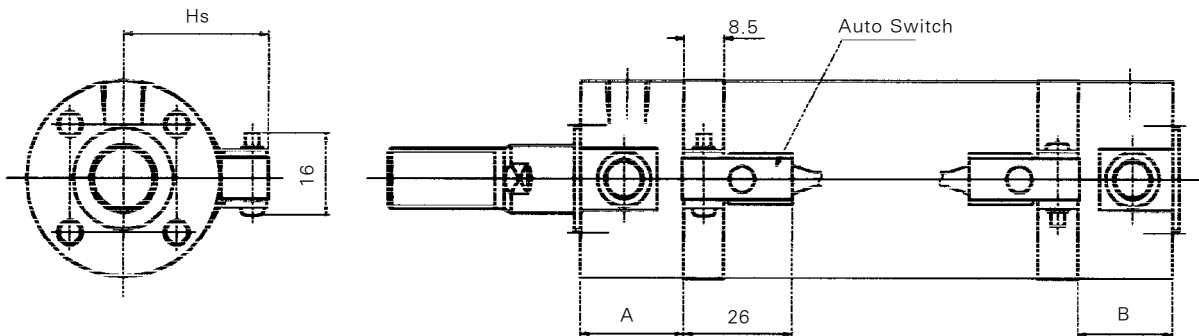


(mm)

Bore size (mm)	Standard stroke Range(mm) Extended stroke Range(mm)	AA	A	□C	φD	φE	F	GA	GB	φI	J	K	KA	MM	NA	P	L	H	LL	WA	WB	WH	W	H1	B1
φ32	~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
φ40	~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
φ50	~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
φ63	~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

# Series ARD

## Auto Switch Setting Position



## Auto Switch Mounting Position

Bore size	W4 (mm)		
	A	B	Hs
φ32	23	33	30.5
φ40	32	29	35
φ50	39.5	37.5	40.5
φ63	41	38	47.5

## Minimum Auto Switch Mountable Stroke

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