

# Series ADQ

With Auto Switch/Double Acting Type, Single Acting Type

Bore Size (mm) :  $\phi 12$ ,  $\phi 16$ ,  $\phi 20$ ,  $\phi 25$ ,  $\phi 32$ ,  $\phi 40$ ,  $\phi 50$ ,  $\phi 63$ ,  $\phi 80$ ,  $\phi 100$



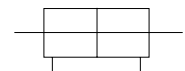
- SPACE SAVING DESIGN
- LIGHT WEIGHT
- 10 BORE SIZES
- AUTO SWITCH CAPABLE
- CYLINDERS FOR SPECIAL APPLICATIONS
- MANUFACTURING CERTIFIED TO ISO 9001&9002 STANDARDS

### Symbol

Double Acting /  
Single Rod Type



Double Acting /  
Double Rod Type



## How to Order

For details, please refer to Page.A-161

### Model/Standard Stroke

Bore Size (mm)	Double acting				Single acting		Applicable Auto Switch
	Single Rod Type	Double Rod Type	Non-Rotating Rod Type	Rear Boss Mount Type	Spring Return Type	Spring Extended Type	
Standard Stroke(mm)				Standard Stroke(mm)		Reed Switch	
$\phi 12$	5, 10, 15	-	-	5, 10, 15	-	-	Grommet Type W4
$\phi 16$	20, 25, 30	-	-	20, 25, 30	-	-	
$\phi 20$	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75	5, 10	5, 10	
$\phi 25$	-	-	-	-	-	-	
$\phi 32$	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150	5, 10	5, 10	
$\phi 40$	-	-	-	-	-	-	
$\phi 50$	-	-	-	-	10	10	
$\phi 63$	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150	10, 15, 20, 25, 25, 30, 35, 40, 45, 50, 75, 100	10, 15, 20, 25, 25, 30, 35, 40, 45, 50, 75, 100	10, 15, 20, 25, 25, 30, 35, 40, 45, 50, 75, 100, 125, 150	-	-	
$\phi 80$	-	-	-	-	-	-	
$\phi 100$	-	-	-	-	-	-	

### Intermediate Stroke

A Spacer of 5, 10, 15 and 20mm is used for intermediate stroke between 55 and 100mm stroke(55, 60, 65...).  
(Example) AQB50-55D is produced by installing 20mm spacer in AQB50-75.

## Standard/Specifications

Fluid	Air
Max. Operating Pressure	1.0MPa (9.9kgf/cm <sup>2</sup> )
Min. Operating Pressure	0.5kgf/cm <sup>2</sup> { $\phi$ 12 $\phi$ 16: 0.7kgf/cm <sup>2</sup> }
Ambient and Fluid Temperature	-10~60℃
Lubrication	Not Required
Cushion	None
Rod End Thread	Female (Standard Type)
Stroke Tolerance	+1.0 mm
Mounting	Through Hole (Standard)
Piston Speed	50~500mm/sec

## Body Optional

Name	Applicable Type
Cushion	Rubber Cushion
Rod End Male Thread	Option
Boss Mount	Rear Boss Mount Type (Optional)
Non-Rotating Rod Type	Double Acting/Single Rod Type Only

## Non - Rotating Rod Accuracy (Non-Rotating Piston Rod Type)

Bore Size mm	$\phi$ 20	$\phi$ 32	$\phi$ 40	$\phi$ 50	$\phi$ 63
Non-Rotating Rod Accuracy	$\pm 1^\circ$	$\pm 0.8^\circ$			

## Min. Auto Switch Mountable Stroke

No. of Auto Switch	Min. Auto Switch Mountable Stroke
With 1pc	5mm
With 2pcs	10mm

## Auto Switch Specification

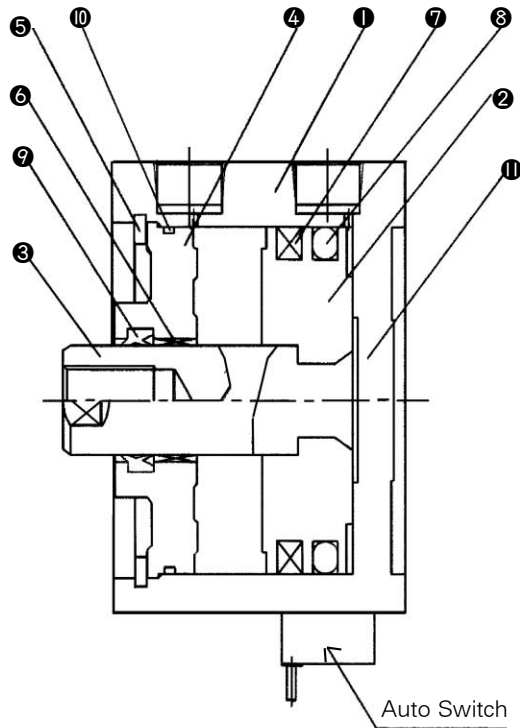
### Reed Switch Type (Please Refer to Page A-202)

Auto Switch Model	W4	
Application	Relay, Sequence Control	
Load Voltage	120VAC, 24VDC	
Range of Load Current	5~40 mA	5~20 mA
Protection Circuit for Contact Braker Point	Non	
Internal Voltage Drop	2.4V or Less	
Indicator Lamp	ON : Red Light Emitting Diode	

- Leak Current - Non
- Response Time - 1.2ms
- Lead Wire - Oil Proof vinyl,  $\phi$  3.4, 0.2mm<sup>2</sup> 2wire(red, black), ※
- Impact Resistance - 30G
- Insulation Resistance - 50M $\Omega$  or more under the test voltage 500VDC (between case and cable)
- Dielectric Resistance - 1500VAC 1min (between case and cable)
- Ambient Temperature
- Protection Structure - IEC spec IP67, Water-proof, Oil-proof.

※ If 300mm lead wire is required, L is put at the end of model numbers.  
(Example) W4L

Construction/Parts List



Parts LIST

No.	Description	Material	Note
①	Cylinder Tube	Aluminum Alloy	-
②	Piston	Aluminum Alloy	Chromate
③	Piston Rod	Stainless Steel	φ12 ~ φ25
		Carbon Steel	φ32 ~ φ100
④	Collar	Aluminum Bearing Alloy	φ12 ~ φ40
		Aluminum Alloy Casting	φ50 ~ φ100
⑤	Retaining Ring	Carbon Steel	Black Zinc Chromate
⑥	Bushing	Lead Bronze Casting	Only Above Bore:50
⑦	Rubber Magnet	-	-

Seals List

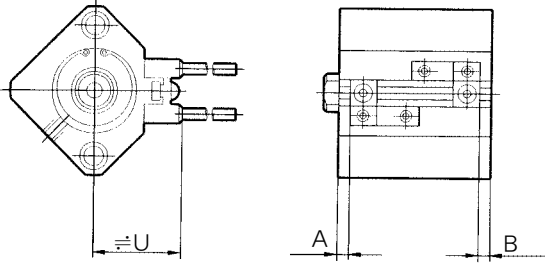
No.	Description	Material	Parts No.									
			12	16	20	25	32	40	50	63	80	100
⑧	Piston Packing	NBR	NLP-12	NLP-16A	NLP-20A	NLP-25A	NLP-32A	NLP-40A	NLP-50A	NLP-63A	NLP-80A	NLP-100A
⑨	Rod Packing	NBR	DYR-6K	DYR-8K	DYR-10SK	DYR-12	DYR-16	PDU-16Z	PDU-20Z	PDU-20Z	PDU-25Z	PDU-30Z
⑩	Gasket	NBR	SO-013-6	C14	C18	C22	C29	C36	C46	C60	C75	C95

# Series ADQ

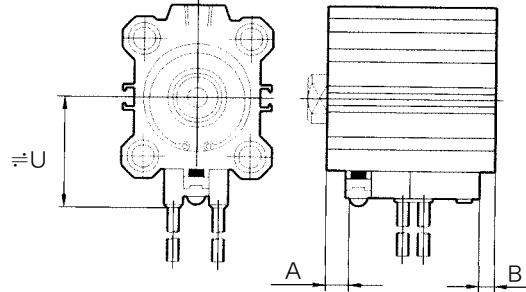
## Auto Switch Mounting Date

W4

Bore size:  $\phi 12 \sim \phi 25$



Bore Size:  $\phi 32 \sim \phi 100$



### Auto Switch Mounting Position

Bore size (mm)	A (mm)	B (mm)	U (mm)
$\phi 12$	5	6	19.5
$\phi 16$	8	5.5	22.5
$\phi 20$	8	7	24.5
$\phi 25$	8	7.5	27.5
$\phi 32$	9.5	6.5	31.5
$\phi 40$	13.5	9	35
$\phi 50$	11.5	12	41
$\phi 63$	14	15	47.5
$\phi 80$	18	18.5	57.5
$\phi 100$	21.5	24.5	67.5

### Weight/Double Acting, Single Rod

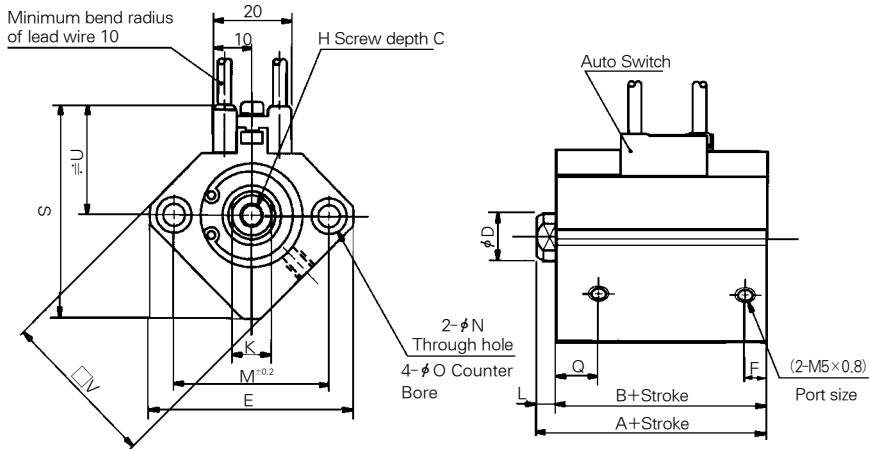
(kgf)

Bore Size	Stroke (mm)												Additional Weight for Male Thread
	5	10	15	20	25	30	35	40	45	50	75	100	
$\phi 12$	40	47	54	61	68	75	-	-	-	-	-	-	2
$\phi 16$	61	72	83	94	105	116	-	-	-	-	-	-	3
$\phi 20$	91	112	132	152	173	193	213	234	254	274	-	-	7
$\phi 25$	118	139	160	181	203	224	245	266	287	309	-	-	17
$\phi 32$	157	180	202	225	248	270	292	316	339	362	522	636	40
$\phi 40$	272	294	316	338	360	382	404	426	448	470	623	733	40
$\phi 50$	-	401	439	476	514	551	589	626	663	701	958	1102	80
$\phi 63$	-	647	687	727	767	807	847	987	927	967	1257	1464	80
$\phi 80$	-	1443	1534	1624	1714	1804	1894	1985	2076	2166	2830	3296	160
$\phi 100$	-	2208	2314	2420	2526	2632	2738	2844	2950	3056	3801	4318	270

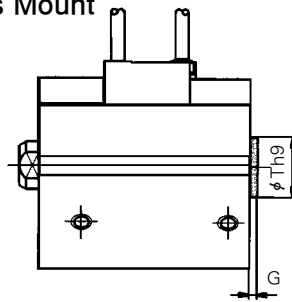
**With Auto Switch : Double Acting/Single Rod Type : Dimensions**

Bore Size:  $\phi 12 \sim \phi 25$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

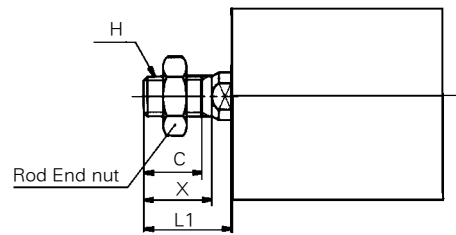


**Rear Boss Mount**



Rear Boss Mount		
Bore size (mm)	G	Th9
$\phi 12$	1.5	15 <sup>0</sup> <sub>-0.043</sub>
$\phi 16$	1.5	20 <sup>0</sup> <sub>-0.052</sub>
$\phi 20$	2	13 <sup>0</sup> <sub>-0.043</sub>
$\phi 25$	2	15 <sup>0</sup> <sub>-0.043</sub>

**Rod End Male Thread**



Rod End Male Thread				
Bore size (mm)	C	X	H	L1
$\phi 12$	9	10.5	M5 $\times$ 0.8	14
$\phi 16$	10	12	M6 $\times$ 1.0	15.5
$\phi 20$	12	14	M8 $\times$ 1.25	18.5
$\phi 25$	15	17.5	M10 $\times$ 1.25	22.5

**Standard Type** (unit:mm)

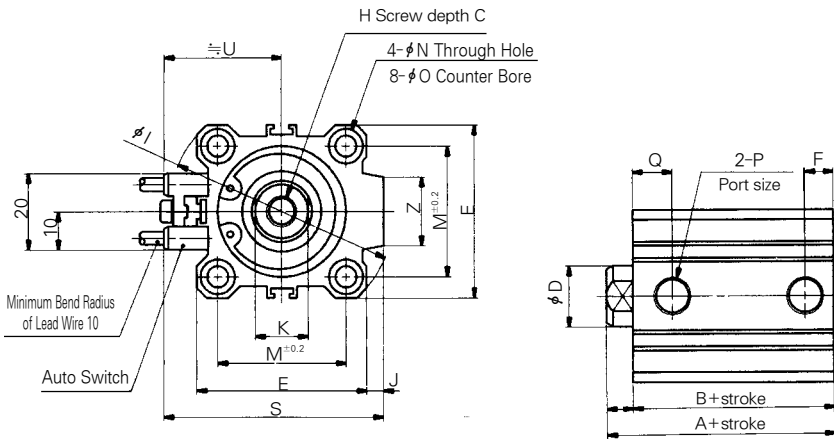
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	H	K	L	M	N	$\phi O$	Q	S	U	V
$\phi 12$	5~30	31.5	28	6	6	32	6.5	M3 $\times$ 0.5	5	3.5	22	3.5	6.5 Depth 3.5	11	35.5	19.5	25
$\phi 16$	5~30	34	30.5	8	8	38	5.5	M4 $\times$ 0.7	6	3.5	28	3.5	6.5 Depth 3.5	10	41.5	22.5	29
$\phi 20$	5~50	36	31.5	7	10	47	5.5	M5 $\times$ 0.8	8	4.5	36	6.5	9 Depth 7	10.5	48	24.5	36
	75	55.5	41														
$\phi 25$	5~50	37.5	32.5	12	12	52	5.5	M6 $\times$ 1.0	10	5	40	5.5	9 Depth 7	11	53.5	27.5	40

# Series ADQ

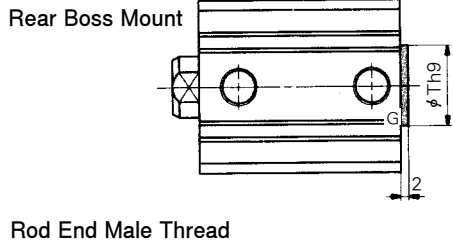
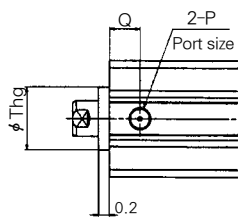
## With Auto Switch : Double Acting/Single Rod Type : Dimensions

Bore Size :  $\phi 32 \sim \phi 100$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

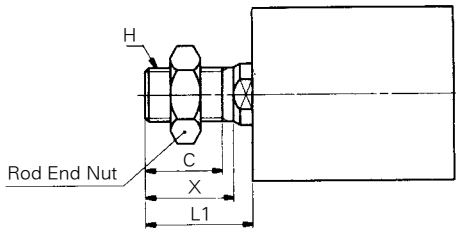


### Long Stroke(125st or more) (mm)



Rear Boss Mount (Unit : mm)	
Bore size (mm)	Th9
$\phi 32$	21 <sup>0</sup> <sub>-0.052</sub>
$\phi 40$	28 <sup>0</sup> <sub>-0.052</sub>
$\phi 50$	35 <sup>0</sup> <sub>-0.062</sub>
$\phi 63$	35 <sup>0</sup> <sub>-0.062</sub>
$\phi 80$	43 <sup>0</sup> <sub>-0.062</sub>
$\phi 100$	59 <sup>0</sup> <sub>-0.074</sub>

Bore size	T
32	22 <sup>0</sup> <sub>-0.052</sub>
40	28 <sup>0</sup> <sub>-0.052</sub>
50 • 63	35 <sup>0</sup> <sub>-0.062</sub>
80	43 <sup>0</sup> <sub>-0.062</sub>
100	59 <sup>0</sup> <sub>-0.074</sub>



Rod End Male Thread (Unit : mm)				
Bore size (mm)	C	X	H	L1
$\phi 32$	20.5	23.5	M14×1.5	28.5
$\phi 40$	20.5	23.5	M14×1.5	28.5
$\phi 50$	26	28.5	M18×1.5	33.5
$\phi 63$	26	28.5	M22×1.5	33.5
$\phi 80$	32.5	35.5	M22×1.5	43.5
$\phi 100$	32.5	35.5	M26×1.5	43.5

### Standard (Unit : mm)

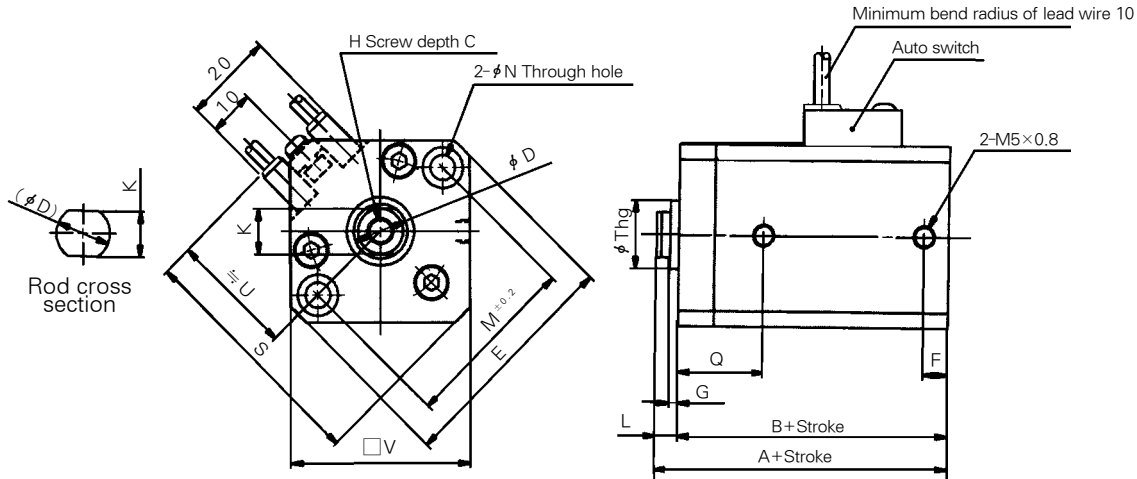
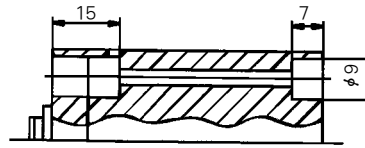
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	H	I	J	K	L	M	N	$\phi O$	P	Q	S	U	Z	
$\phi 32$	5~50	40	33	13	16	45	7.5	M8×1.25	60	4.5	14	7	34	5.5	9 Depth 7	Rc(PT) 1/8	10.5	58.5	53	15	18
	75, 100	12.5	17				12.5														
	125, 150	62.5	45.5																		
$\phi 40$	5~50	46.5	39.5	13	16	52	8	M8×1.25	69	5	14	7	40	5.5	9 Depth 7	Rc(PT) 1/8	11	66	35	18	
	75, 100	14	17				14														
	125, 150	72	55																		
$\phi 50$	10~50	48.5	40.5	15	20	64	10.5	M10×1.5	86	7	17	8	50	6.6	11 Depth 8	Rc(PT) 1/4	10.5	80	41	22	
	75, 100	14	18				14														
	125, 150	73.5	55.5																		
$\phi 63$	10~50	54	46	15	20	77	10.5	M10×1.5	103	7	17	8	60	9	14 Depth 10.5	Rc(PT) 1/4	15	93	47.5	22	
	75, 100	16.5	18				16.5														
	125, 150	75	57																		
$\phi 80$	10~50	63.5	53.5	21	25	98	12.5	M16×2.0	132	6	22	10	77	11	17.5 Depth 13.5	Rc(PT) 3/8	16	112.5	57.5	26	
	75, 100	19	20				19														
	125, 150	86	66																		
$\phi 100$	10~50	75	63	27	30	117	13	M20×2.5	156	6.5	27	12	94	11	17.5 Depth 13.5	Rc(PT) 3/8	23	132.5	56.7.5	26	
	75, 100	23	22				23														
	125, 150	97.5	75.5																		

With Auto Switch: Double Acting/Non-Rotating Rod/Single Rod Type: Dimensions

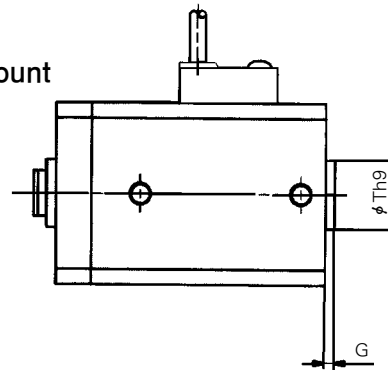
Bore Size :  $\phi 20$ ,  $\phi 25$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

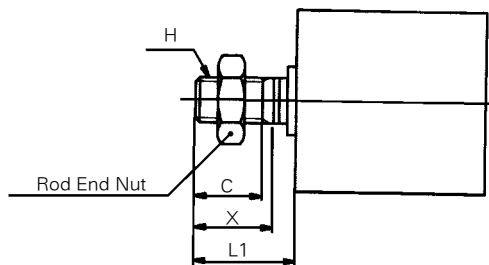
Through Hole



Rear Boss Mount



Rod End Male Thread



Rod End Male Thread				
Bore size (mm)	C	H	L1	X
$\phi 20$	12	M5x1.25	18.5	14
$\phi 25$	12	M10x1.25	18.5	14

Standard

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	G	H	K	L	M	N	Q	S	Th9	U	V
$\phi 20$	5~50	44	39.5	7	10	47	5.5	2	M5x0.8	8	4.5	36	5.5	18.5	48	13 <sup>0</sup> <sub>-0.043</sub>	24.5	36
$\phi 25$	5~50	45.5	40.5	12	12	52	5.5	2	M6x1.0	10	5	40	5.5	19	53.5	15 <sup>0</sup> <sub>-0.043</sub>	27.5	40

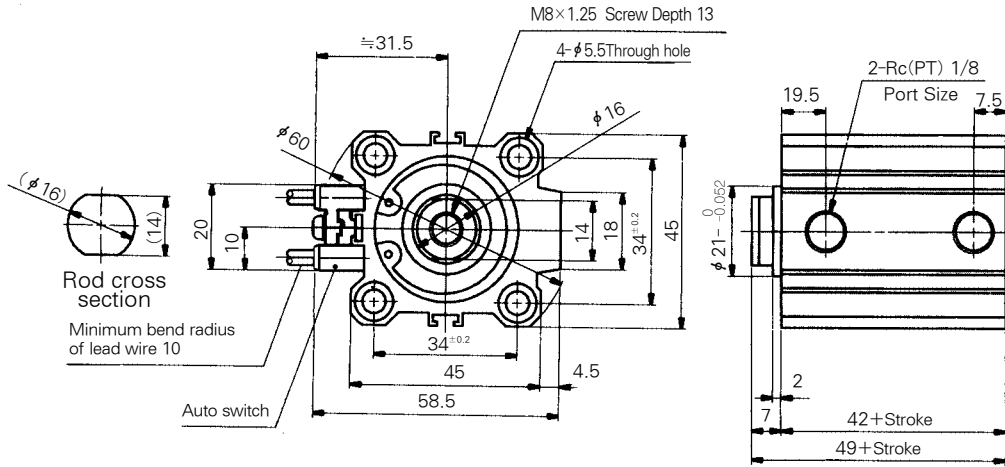
# Series ADQK

Air Cylinder

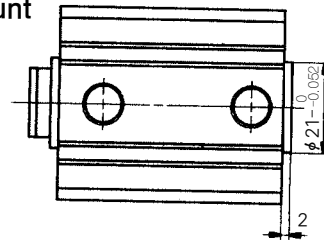
## With Auto Switch: Double Acting/Non-Rotating Rod/Single Rod Type: Dimensions

Bore Size :  $\phi 32$

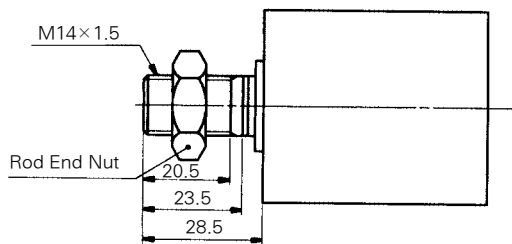
For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



Rear Boss Mount



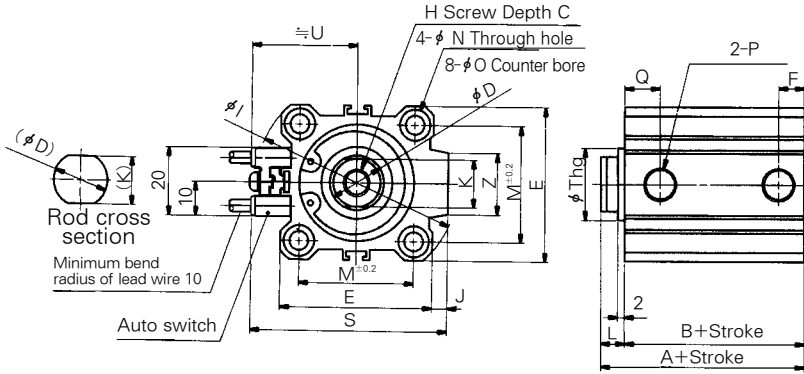
Rod End Male Thread



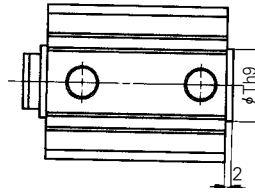
With Auto Switch: Double Acting/Non-Rotating Rod/Single Rod Type: Dimensions

Bore Size :  $\phi 40 \sim \phi 63$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



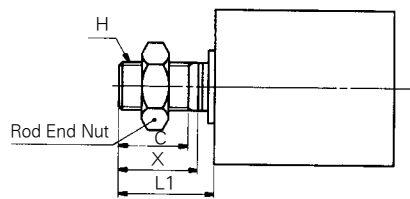
Rear Boss Mount



Rear Boss Mount (mm)

Bore size mm	Th9
$\phi 40$	28 <sup>0</sup> <sub>-0.052</sub>
$\phi 50$	35 <sup>0</sup> <sub>-0.062</sub>
$\phi 63$	35 <sup>0</sup> <sub>-0.062</sub>

Rod End Male Thread



Rod End Male Thread (mm)

Bore size (mm)	C	H	L1	X
$\phi 40$	20.5	M14×1.5	28.5	23.5
$\phi 50$	26	M18×1.5	33.5	28.5
$\phi 63$	26	M18×1.5	33.5	28.5

Standard

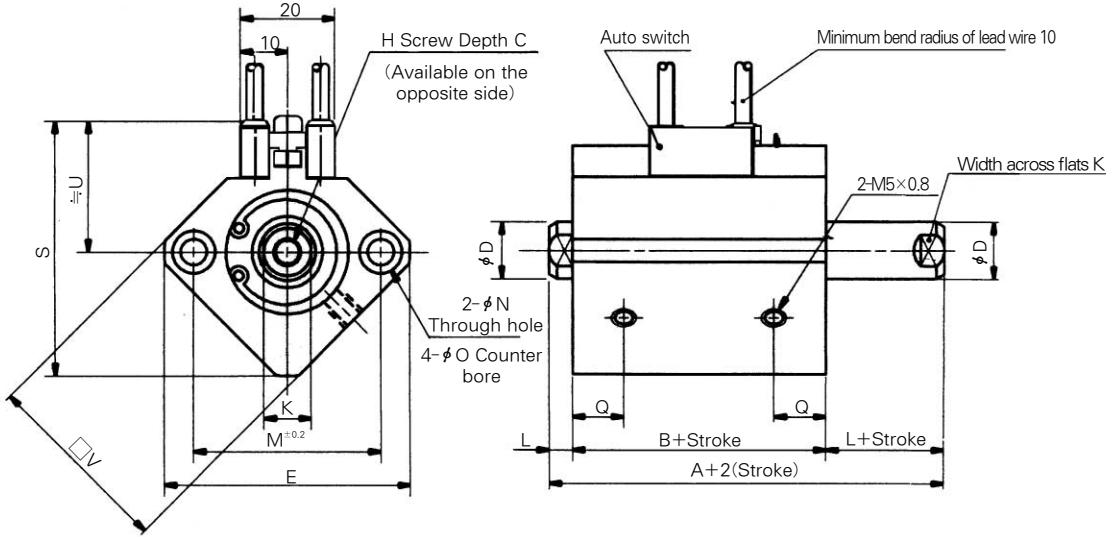
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	H	I	J	K	L	M	N	$\phi O$	P	Q	S	Thg	U	Z
$\phi 40$	5~50	46.5	39.5	13	16	52	8	M8×1.25	69	5	14	7	40	5.5	9 Depth7	Rc(PT) 1/8	11	66	28 <sup>0</sup> <sub>-0.052</sub>	35	18
	75, 100																				
$\phi 50$	10~50	48.5	40.5	15	20	64	10.5	M10×1.5	86	7	18	8	50	6.6	11 Depth8	Rc(PT) 1/4	10.5	80	35 <sup>0</sup> <sub>-0.062</sub>	41	22
	75, 100																				
$\phi 63$	10~50	54	46	15	20	77	10.5	M10×1.5	103	7	18	8	60	9	14 Depth10.5	Rc(PT) 1/4	15	93	35 <sup>0</sup> <sub>-0.062</sub>	47.5	22
	75, 100																				

## With Auto Switch: Double Acting/Double Rod Type: Dimensions

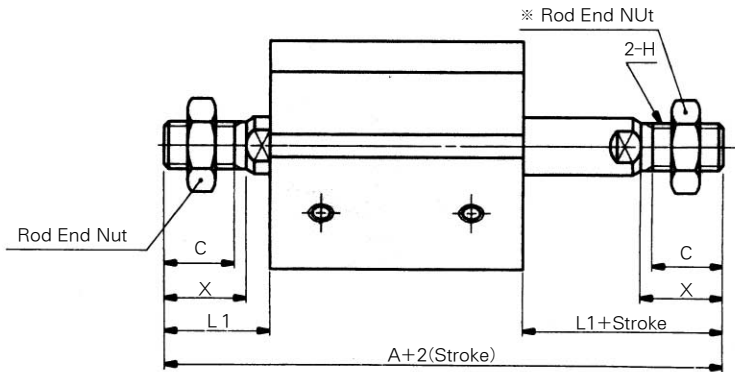
(inch)

Bore Size :  $\phi 20$  (3/4 Nom.),  $\phi 25$  (1 Nom.)

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



### Rod End Male Thread



### Rod End Male Thread (mm)

Bore size (mm)	A	C	H	L1	X
$\phi 20$	75	12	M8x1.25	18.5	14
$\phi 25$	84	15	M10x1.25	22.5	17.5

### Standard (Unit : mm)

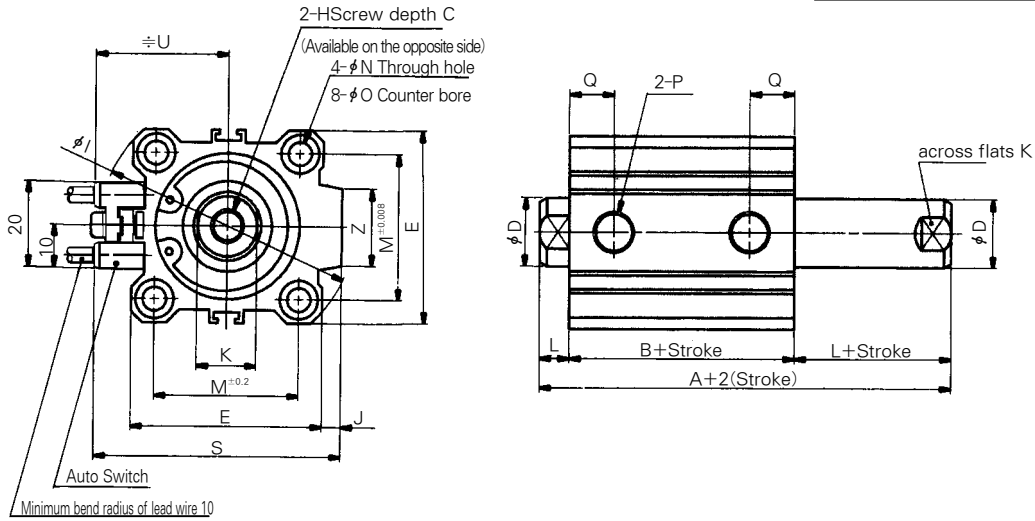
Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	K	L	M	N	$\phi O$	Q	S	U	V
$\phi 20$	5~75	47	38	7	10	47	M5x0.8	8	4.5	36	5.5	9 Depth7	10.5	48	24.5	36
$\phi 25$	5~50	49	39	12	12	52	M6x1.0	10	5	40	5.5	9 Depth7	11	53.5	27.5	40

With Auto Switch: Double Acting/Double Rod Type: Dimensions

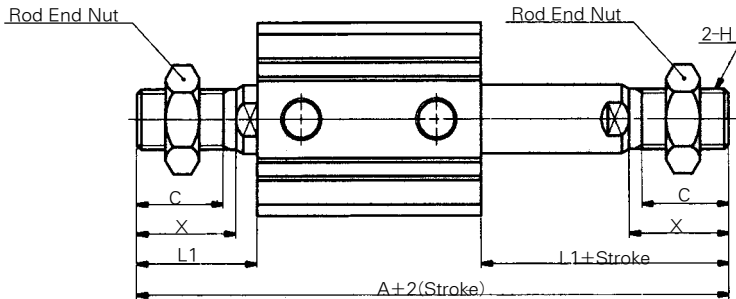
(mm)

Bore Size :  $\phi 32 \sim \phi 100$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



Rod End Male Thread



Rod End Male Thread (mm)					
Bore size (mm)	A	C	H	L1	X
$\phi 32$	97.5	20.5	M14×1.5	28.5	23.5
$\phi 40$	107	20.5	M14×1.5	28.5	23.5
$\phi 50$	117.5	26	M18×1.5	33.5	28.5
$\phi 63$	119	26	M18×1.5	33.5	28.5
$\phi 80$	148	32.5	M22×1.5	43.5	35.5
$\phi 100$	157.5	32.5	M26×1.5	43.5	35.5

Standard (mm)

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	I	J	K	L	M	N	$\phi O$	P	Q	S	U	Z
$\phi 32$	5~75	54.5	40.5	13	16	45	M8×1.25	60	4.5	14	7	34	5.5	9 Depth 7	Rc(PT) 1/8	12.5	58.5	31.5	18
$\phi 40$	5~75	64	50	13	16	52	M8×1.25	69	5	14	7	40	5.5	9 Depth 7	Rc(PT) 1/8	14	66	35	18
$\phi 50$	10~75	66.5	50.5	15	20	64	M10×1.5	86	7	17	8	50	6.6	11 Depth 8	Rc(PT) 1/4	14	80	41	22
$\phi 63$	10~75	68	52	15	20	77	M10×1.5	103	7	17	8	60	9	14 Depth 10.5	Rc(PT) 1/4	15.5	93	47.5	22
$\phi 80$	10~75	81	61	21	25	98	M16×2.0	132	6	22	10	77	11	17.5 Depth 13.5	Rc(PT) 3/8	18	112.5	57.5	26
$\phi 100$	10~75	94.5	70.5	27	30	117	M20×2.5	156	6.5	27	12	94	11	17.5 Depth 13.5	Rc(PT) 3/8	22	132.5	67.5	26

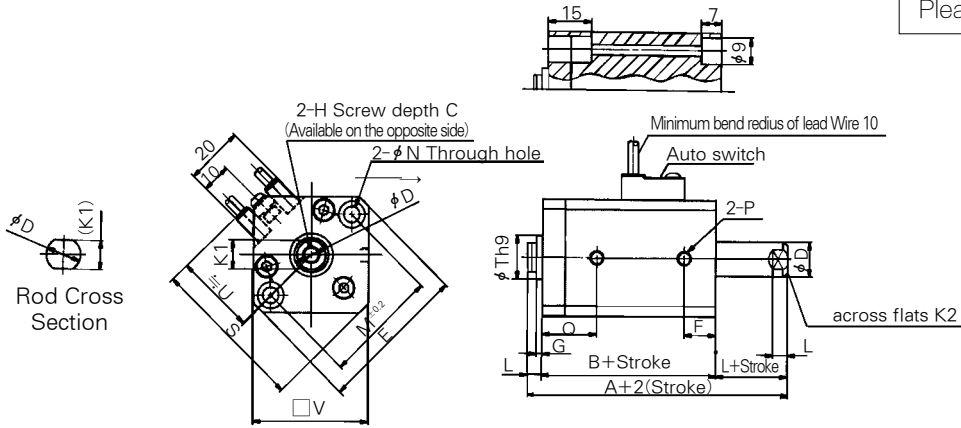
# Series ADQKW

Air Cylinder

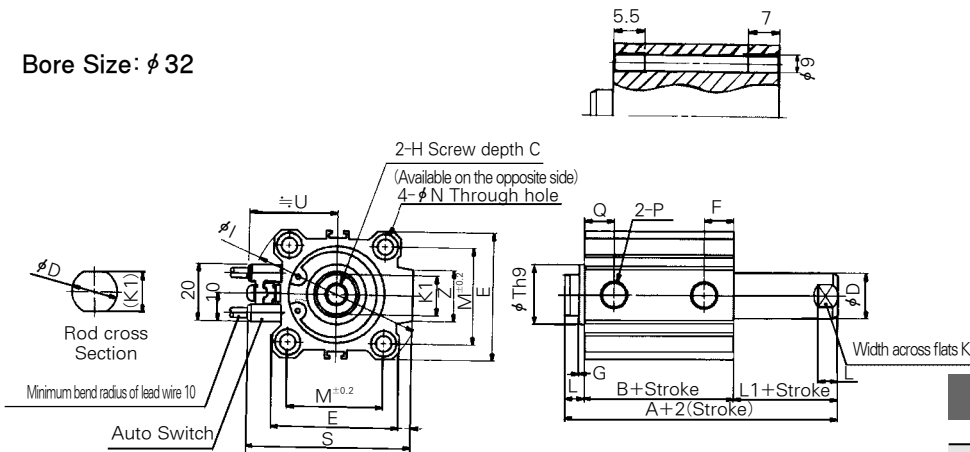
## With Auto Switch: Double Acting / Double Rod / Non-rotating Rod / Dimensions

Bore Size :  $\phi 20 \sim \phi 25$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



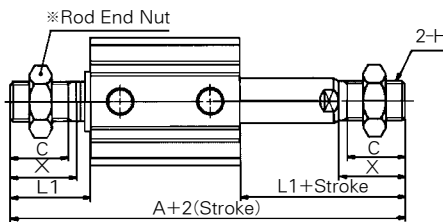
Bore Size:  $\phi 32$



### Rod End Male Thread

### Rod End Male Thread (mm)

Bore size (mm)	A	C	H
$\phi 20$	83	12	M8x1.25
$\phi 25$	92	15	M10x1.25
$\phi 32$	106.5	20.5	M14x1.25



Bore size (mm)	L1	X
$\phi 20$	18.5	14
$\phi 25$	22.5	17.5
$\phi 32$	28.5	23.5

### Standard

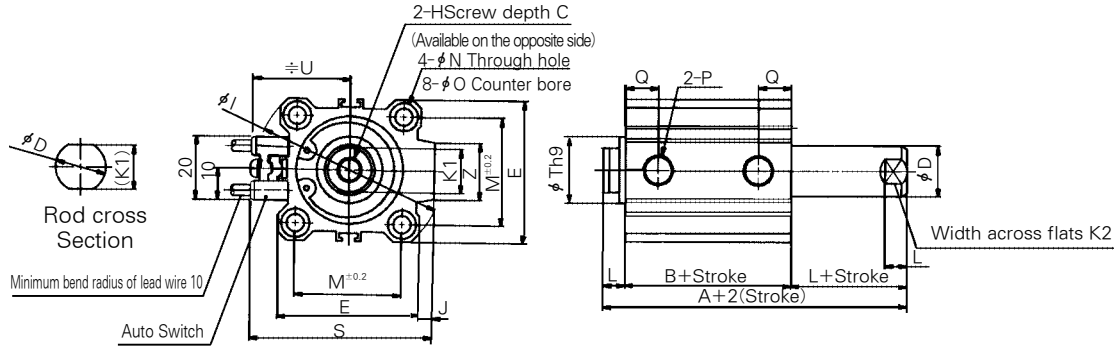
(Unit : mm)

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	F	G	H	I	J	K1	K2	L	M	N	P	Q	S	Th9	U	V	Z
$\phi 20$	5~50	55	46	7	10	47	10.5	2	M5x0.8	-	-	8	8	4.5	36	5.5	M5x0.8	18.5	48	13 <sup>0</sup> <sub>-0.043</sub>	24.5	36	-
$\phi 25$	5~50	57	47	12	12	52	11	2	M6x1.0	-	-	10	10	5	40	5.5	M5x0.8	19	53.5	15 <sup>0</sup> <sub>-0.043</sub>	27.5	40	-
$\phi 32$	5~75	63.5	49.5	13	16	45	12.5	2	M8x1.25	60	4.5	14	14	7	34	5.5	Rc(PT)1/8	21.5	58.5	21 <sup>0</sup> <sub>-0.052</sub>	31.5	-	18

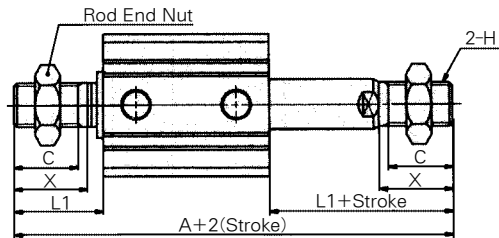
With Auto Switch: Double Acting / Double Rod / Non-rotating Piston Rod 1 : Dimensions

Bore Size :  $\phi 40 \sim \phi 63$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196



Rod End Male Thread



Rod End Male Thread (mm)

Bore size (mm)	A	C	H	L1	X
$\phi 40$	107	20.5	M14×1.5	28.5	23.5
$\phi 50$	117.5	26	M18×1.5	33.5	28.5
$\phi 63$	119	26	M18×1.5	33.5	28.5

Standard (mm)

Bore size (mm)	Stroke range (mm)	A	B	C	D	E	H	I	J	K1	K2	L	M	N	$\phi O$	P	Q	S	Th9	U	Z
$\phi 40$	5~75	64	50	13	16	52	M8×1.25	69	5	14	14	7	40	5.5	9Depth7	Rc(PT)1/8	14	66	28 <sup>0</sup> <sub>-0.052</sub>	35	18
$\phi 50$	10~75	66.5	50.5	15	20	64	M10×1.5	86	7	18	17	8	50	6.5	11Depth8	Rc(PT)1/4	14	80	35 <sup>0</sup> <sub>-0.062</sub>	41	22
$\phi 63$	10~75	68	52	15	20	77	M10×1.5	103	7	18	17	8	60	9	14Depth10.5	Rc(PT)1/4	15.5	93	35 <sup>0</sup> <sub>-0.062</sub>	47.5	22

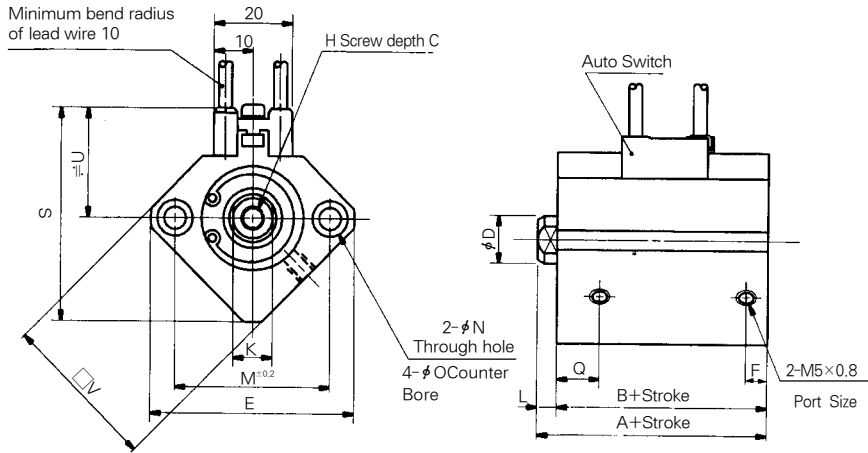
# Series ADQ

Air Cylinder

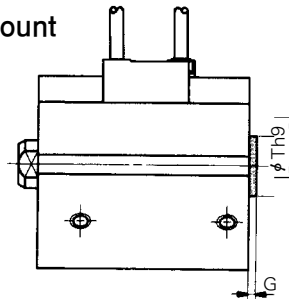
## With Auto Switch : Single Acting/Single Rod/Spring Return Type

Bore Size :  $\phi 20$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

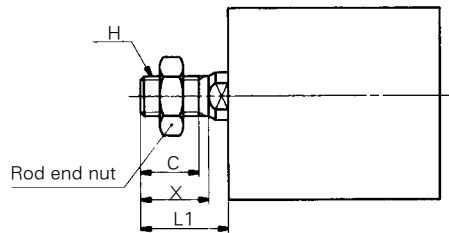


### Rear Boss Mount



Rear Boss Mount (mm)		
Bore size (mm)	G	Th9
$\phi 20$	2	13 <sup>0</sup> <sub>0.043</sub>

### Rod End Male Thread



Rod End Male Thread (mm)				
Bore size (mm)	C	X	H	L1
				5st
$\phi 20$	12	14	M8×1.25	18.5

### Standard

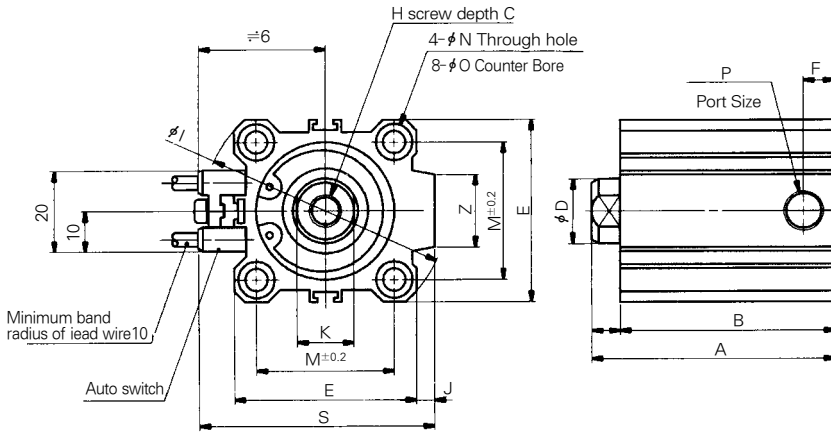
(mm)

Bore size (mm)	A		B		C	D	E	F	H	K	L	M	N	$\phi O$	S	U	V
	5st	10st	5st	10st													
$\phi 20$	41	46	36.5	41.5	7	10	47	5.5	M5×0.8	8	4.5	36	5.5	9 Depth 7	48	24.5	36

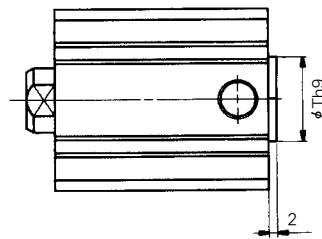
With Auto Switch : Single Acting/Single Rod /Spring Return Type : Dimensions

Bore Size :  $\phi 32 \sim \phi 50$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

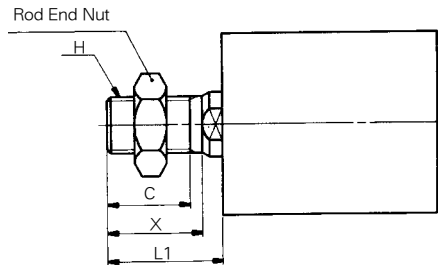


Rear Boss Mount



Rear Boss Mount (mm)	
Bore size (mm)	Th9
$\phi 32$	21 <sup>00</sup> <sub>-0.052</sub>
$\phi 40$	28 <sup>00</sup> <sub>-0.052</sub>
$\phi 50$	35 <sup>00</sup> <sub>-0.062</sub>

Rod End Male Thread



Rod End Male Thread (mm)				
Bore size (mm)	C	X	H	L1
$\phi 32$	20.5	23.5	M14×1.5	28.5
$\phi 40$	20.5	23.5	M14×1.5	28.5
$\phi 50$	26	28.5	M18×1.5	33.5

Standard

(mm)

Bore size (mm)	A		B		C	D	E	F	H	I	J	K	L	M	N	φO	P	S	U	Z
	5st	10st	5st	10st																
$\phi 32$	45	50	38	43	13	16	45	7.5	M8×1.25	60	4.5	14	7	34	5.5	9 Depth7	Rc(PT) 1/8	58.5	31.5	18
$\phi 40$	51.5	56.6	44.5	49.5	13	16	52	8	M8×1.25	69	5	14	7	40	5.5	9 Depth7	Rc(PT) 1/8	66	35	18
$\phi 50$	-	58.5	-	50.5	15	20	64	10.5	M10×1.5	86	7	17	8	50	6.6	11Depth8	Rc(PT) 1/4	80	41	22

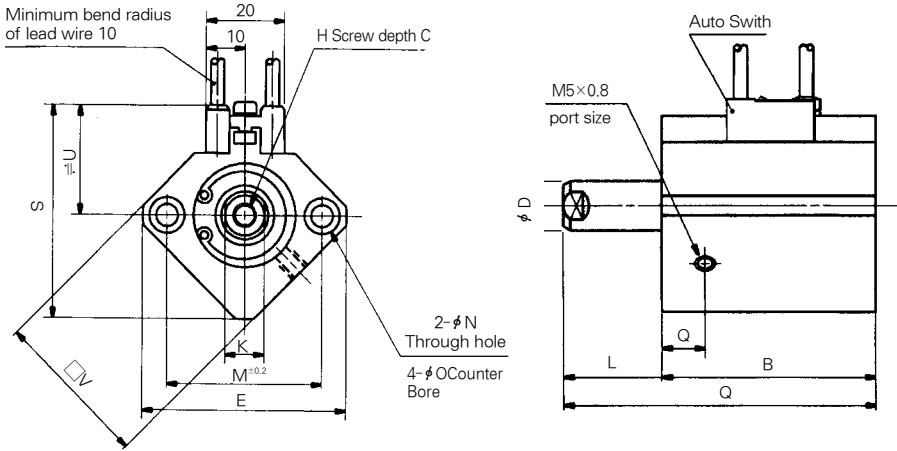
# Series ADQ

Air Cylinder

## With Auto Switch : Single Acting/Single Rod /Spring Extended Type : Dimensions

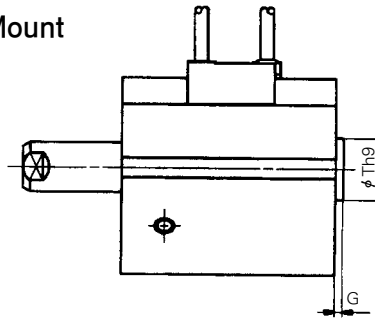
Bore Size :  $\phi 20$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

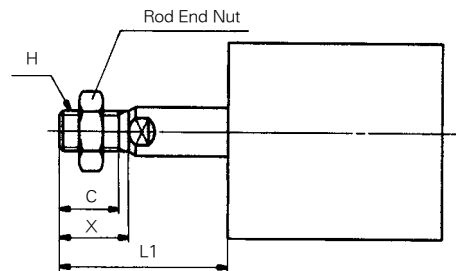


Rear Boss Mount		
Bore size (mm)	G	Th9
$\phi 20$	2	13 $\begin{smallmatrix} 0 \\ -0.043 \end{smallmatrix}$

Rear Boss Mount



Rod End Male Thread



Rod End Male Thread					
Bore size (mm)	C	X	H	L1	
				5st	10st
$\phi 20$	12	14	M8x1.25	23.5	28.5

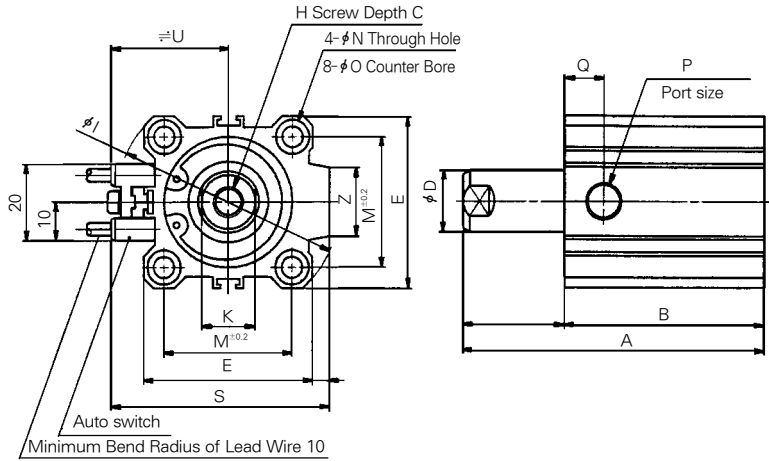
### Standard (mm)

Bore size (mm)	A		B		C	D	E	H	K	L		M	N	$\phi O$	Q	S	U	V
	5st	10st	5st	10st						5st	10st							
$\phi 20$	46	56	36.5	41.5	7	10	47	M5x0.8	8	9.5	14.5	36	5.5	9 Depth 7	10.5	48	24.5	36

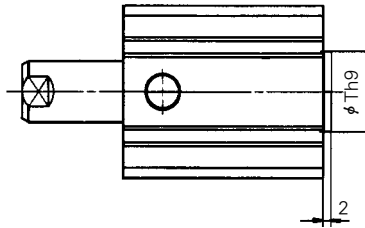
With Auto Switch : Single Acting/Single Rod/Spring Extend Type : Dimensions

Bore Size :  $\phi 32 \sim \phi 50$

For the Dimension of "A" type (Both End Tapped) Please refer to Page A-196

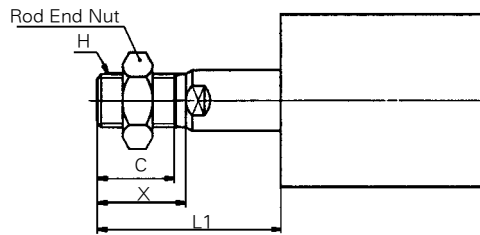


Rear Boss Mount



Rear Boss Mount (mm)	
Bore size (mm)	Th9
$\phi 32$	21 <sup>0</sup> <sub>-0.052</sub>
$\phi 40$	28 <sup>0</sup> <sub>-0.052</sub>
$\phi 50$	35 <sup>0</sup> <sub>-0.052</sub>

Rod End Male Thread



Rod End Male Thread (mm)						
Bore size (mm)	C	X	H	L1		
				5st	10st	20st
$\phi 32$	20.5	23.5	M14×1.5	33.5	38.5	-
$\phi 40$	20.5	23.5	M14×1.5	33.5	38.5	-
$\phi 50$	26	28.5	M18×1.5	-	43.5	53.5

Standard Type

(mm)

Bore size (mm)	A		B		C	D	E	H	I	J	K	L		M	N	O	P	Q	S	U	V
	5st	10st	5st	10st								5st	10st								
$\phi 32$	50	60	38	43	13	16	45	M8×1.25	60	4.5	14	12	17	34	5.5	9 Depth 7	Rc(PT) 1/8	10.5	58.5	31.5	18
$\phi 40$	56.5	66.5	44.5	49.5	13	16	52	M8×1.25	69	5	14	12	17	40	5.5	9 Depth 7	Rc(PT) 1/8	11	66	35	18
$\phi 50$	-	68.5	-	50.5	15	20	64	M10×1.5	86	7	17	-	18	50	6.6	11 Depth 8	Rc(PT) 1/4	10.5	80	41	22

# Series ADQ

## Both Ends Tapped

<"A" Type>

(mm)

Bore Size mm	O	Depth1	Depth2	R1	R2
φ 12	M4×0.7	3.5(-)	3.5	10.5(-)	10.5
φ 16	M4×0.7	3.5(-)	3.5	10.5(-)	10.5
φ 20	M6×1.0	7(15)	7	17(25)	17
φ 25	M6×1.0	7(15)	7	17(25)	17
φ 32	M6×1.0	7(7)	7	17(17)	17
φ 40	M6×1.0	7(7)	7	17(17)	17
φ 50	M8×1.25	8(8)	8	22(22)	22
φ 63	M10×1.5	10.5(10.5)	10.5	28.5(28.5)	28.5
φ 80	M12×1.75	10.5(10.5)	10.5	35.5(35.5)	35.5
φ 100	M12×1.75	13.5(13.5)	13.5	35.5(35.5)	35.5

\* ( ) : Non - Rotating Type

