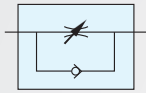


ACCESSORIES



Symbol



Features

- * The valve provides best way to control piston speed of cylinder.
- * Non-return mechanism which allows full flow in one direction.
- * Panel mounted type is available from 1/8"~1/2" port size.



How to order

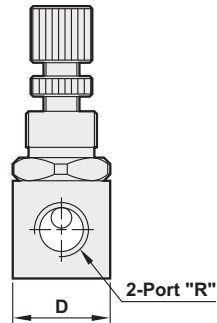
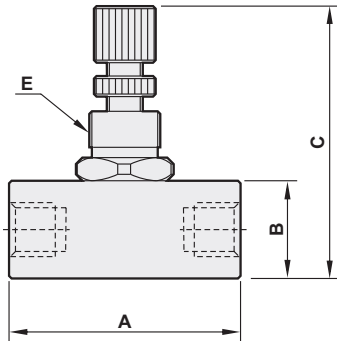
S	-	01	N	P	
Speed control valve		Port size	Thread	Panel nut	
		01 1/8"	Blank PS	Blank W/O panel nut	
		02 1/4"	N NPT	N W/I panel nut	
		03 3/8"		S-06, 08 are unavailable for panel nut.	
		04 1/2"			
		06 3/4"			
		08 1"			

Specifications

Model	S-01	S-02	S-03	S-04	S-06	S-08
Port size	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Body material	Aluminum alloy					
Fluid	Compressed air					
Sectional area	3.8mm ²	6mm ²	32mm ²	32.8mm ²	43mm ²	43mm ²
Operating pressure range	0 ~ 9.9 kgf/cm ²					
Max. operating pressure	10 kgf/cm ²					
Ambient temperature	-10°C ~ 80°C					

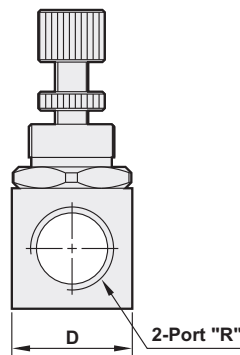
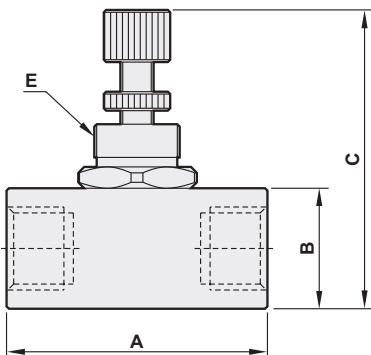
Dimensions

S-01, 02



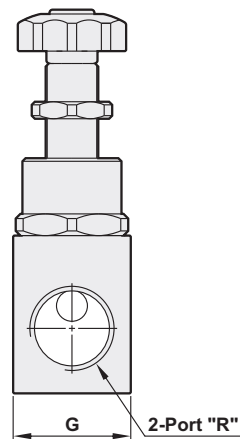
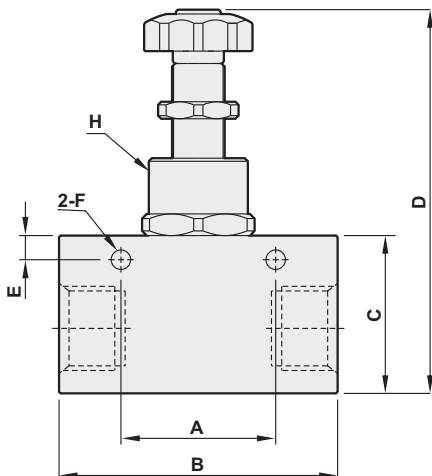
Model	S-01	S-02
R	1/8"	1/4"
A	45.0	45.0
B	19.0	19.0
C	53.0	53.0
D	19.0	19.0
E	M14.0xP1.0	M14.0xP1.0

S-03, 04



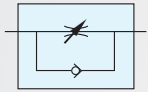
Model	S-03	S-04
R	3/8"	1/2"
A	55.0	60.0
B	25.4	32.0
C	63.0	63.0
D	25.4	32.0
E	M18.0xP1.0	M22.0xP1.0

S-06, 08



Model	S-06	S-08
R	3/4"	1"
A	50.0	50.0
B	90.0	90.0
C	51.0	51.0
D	124.0	124.0
E	7.8	7.8
F	φ 6.3	φ 6.3
G	38.0	38.0
H	M32.0xP1.0	M32.0xP1.0

Symbol



Features

* SV series valves provide finest control of piston speed for cylinders.

How to order

SV

-

01

N

Speed control valve
(Precise type)

Port size

01	1/8"
02	1/4"
03	3/8"
04	1/2"

Thread

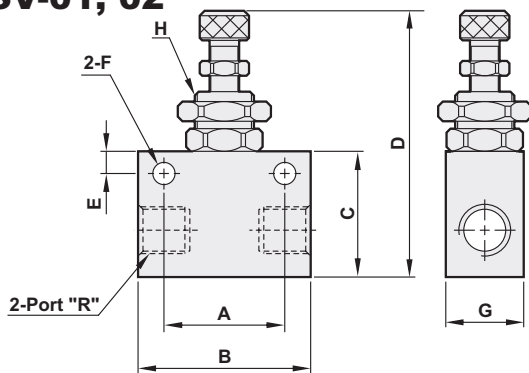
Blank	PS
N	NPT

Specifications

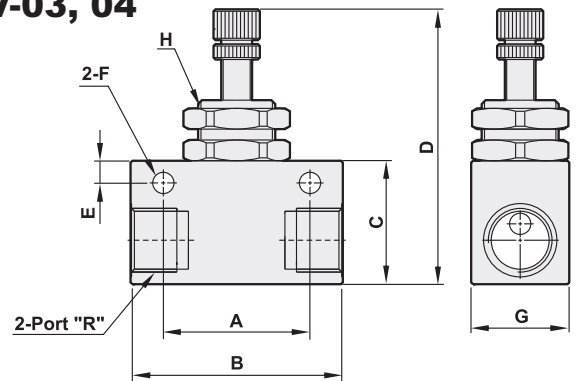
Model	SV-01	SV-02	SV-03	SV-04
Port size	1/8"	1/4"	3/8"	1/2"
Body material	Aluminum alloy			
Fluid	Compressed air			
Sectional area	3.8mm ²	6mm ²	38mm ²	48mm ²
Operating pressure range	0 ~ 9.9 kgf/cm ²			
Max. operating pressure	10 kgf/cm ²			
Ambient temperature	-10°C ~ 80°C			

Dimensions

SV-01, 02

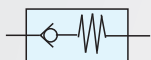


SV-03, 04



Model	R	A	B	C	D	E	F	G	H
SV-01	1/8"	24.5	35.0	25.5	54.0	4.5	φ4.5	15.8	M12.0xP1.0
SV-02	1/4"	24.5	35.0	25.5	54.0	4.5	φ4.5	19.0	M12.0xP1.0
SV-03	3/8"	38.0	52.0	32.0	72.8	4.8	φ5.5	24.0	M18.0xP1.25
SV-04	1/2"	38.0	52.0	36.0	80.5	5.5	φ5.5	28.0	M22.0xP1.25

Symbol



Features

* Check ball mechanism allows fluid go through in one direction.



Specifications

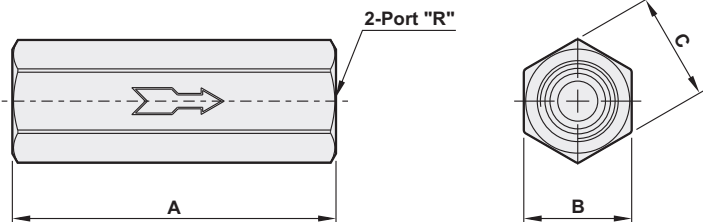
C	—	O1	N
Check valve		Port size	Thread
		O1 1/8"	Blank PS
		O2 1/4"	N NPT
		O3 3/8"	
		O4 1/2"	

Specifications

Model	C-01	C-02	C-03	C-04
Port size	1/8"	1/4"	3/8"	1/2"
Body material	Aluminum alloy			
Fluid	Compressed air			
Sectional area	10mm ²	23mm ²	38mm ²	56mm ²
Operating pressure range	0.3 ~ 8.0 kgf/cm ²			
Max. operating pressure	8 kgf/cm ²			
Ambient temperature	-10°C ~ 80°C			
Net weight	17g	27g	46g	82g

Dimensions

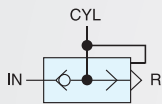
C-01, 02, 03, 04



Model	C-01	C-02	C-03	C-04
R	1/8"	1/4"	3/8"	1/2"
A	40.0	50.0	50.0	63.0
B	14.0	17.0	21.0	25.0
C	14.0	17.0	21.0	25.0

ACCESSORIES

Symbol



Features

- * Increase piston speed instantly.
- * The valve is able to install on cylinder ports



How to order

Q

QUICK EXHAUST VALVES

01

Port size

01	1/8"	04	1/2"
02	1/4"	06	3/4"
03	3/8"		

N

Thread

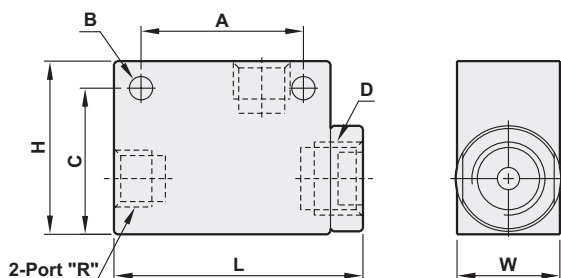
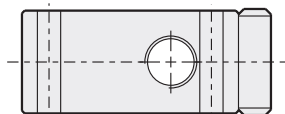
Blank	PS
N	NPT

Specifications

Model	Q-01	Q-02	Q-03	Q-04	Q-06
Port size	1/8"	1/4"	3/8"	1/2"	3/4"
Body material	Aluminum alloy				
Fluid	Compressed air				
Sectional area	16mm ²	27mm ²	28mm ²	71mm ²	72.5mm ²
Operating pressure range	0.5 ~ 9.9 kgf/cm ²				
Max. operating pressure	10 kgf/cm ²				
Max. flow rate l/min	886	1823	2300	3000	3848
Ambient temperature	-10°C ~ 80°C				

Dimensions

Q-01, 02, 03, 04, 06



Model	R	L	W	H	A	B	C	D
Q-01	1/8"	46.0	19.0	32.0	30.0	φ4.3	27.0	PS 1/4
Q-02	1/4"	61.5	25.5	38.0	39.0	φ5.6	31.5	PS 3/8
Q-03	3/8"	61.5	25.5	38.0	39.0	φ5.6	31.5	PS 3/8
Q-04	1/2"	98.0	38.0	63.7	60.0	φ8.5	50.5	PS 3/4
Q-06	3/4"	98.0	38.0	63.7	60.0	φ8.5	50.5	PS 3/4

Features

Shuttle valve

- * Check ball moves from high pressure inlet to low pressure inlet.
- * The valve provides two inlets for air supply.
- * Available port size G1/8", 1/4".

Double pressure valve

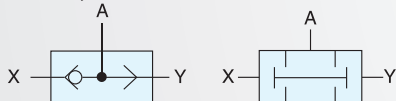
- * The valve provides X and Y inlet for double pressure supply.



Symbol

● ST-01, 02

● STH-01



How to order

ST

O1

N

ST	Shuttle valve
STH	Double pressure valve

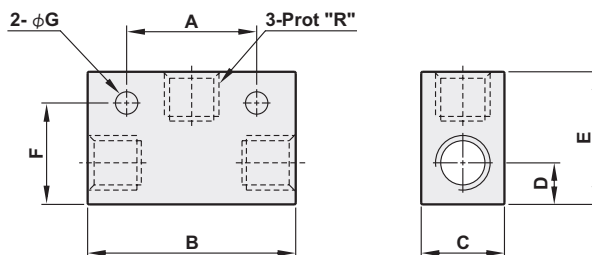
Port size	
01	1/8"
02	1/4"

Thread	
Blank	PS
N	NPT

Specifications

Model	ST-01	ST-02	STH-01
Port size	1/8"	1/4"	1/8"
Body material	Aluminum alloy		
Fluid	Compressed air		
Sectional area	7.5mm ²	21mm ²	14mm ²
Operating pressure range	0 ~ 9.9 kgf/cm ²		
Max. operating pressure	10 kgf/cm ²		
Ambient temperature	-10°C ~ 80°C		
Max. flow rate l/min	823	1583	857

Dimensions



Model	R	A	B	C	D	E	F	G
STH-01	1/8"	25.0	40.0	16.0	8.0	25.5	10.5	4.3
ST-01	1/8"	25.0	40.0	16.0	8.0	25.5	19.5	4.3
ST-02	1/4"	35.0	52.0	22.0	11.0	35.0	25.0	5.5

ACCESSORIES

How to order

EN

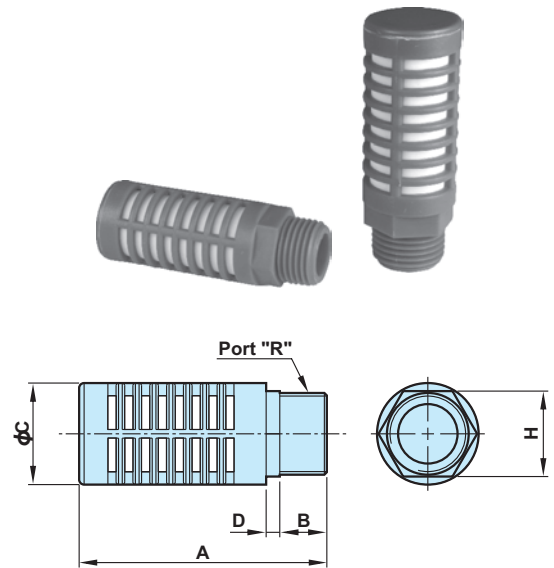
O1

Silencer-plastic type

Port size

M5	M5	04	1/2"
01	1/8"	06	3/4"
02	1/4"	08	1"
03	3/8"		

Model	R	A	B	C	D	H
EN-01	PT 1/8"	36.0	7.5	12.0	5.0	11.0
EN-02	PT 1/4"	46.0	10.0	18.0	5.8	16.0
EN-03	PT 3/8"	57.0	11.0	22.0	5.5	17.0
EN-04	PT 1/2"	71.5	12.0	26.0	6.5	22.0
EN-06	PT 3/4"	85.0	14.0	34.0	4.5	26.5
EN-08	PT 1"	100.0	19.0	41.0	5.5	34.5



How to order

EV

O1

N

Silencer-vibration type

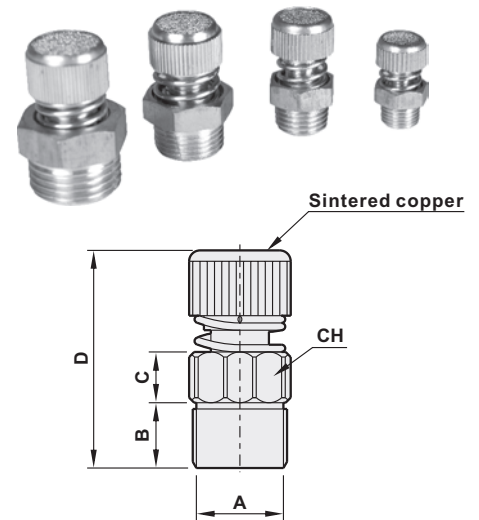
Port size

01	1/8"
02	1/4"
03	3/8"
04	1/2"

Thread

Blank	PT
N	NPT

Model	A	B	C	D	CH
EV-01	PT 1/8"	6.0	7.0	33.0	12.0
EV-02	PT 1/4"	9.0	7.0	35.0	16.0
EV-03	PT 3/8"	10.0	10.0	40.0	18.0
EV-04	PT 1/2"	10.0	10.0	42.0	24.0



How to order

ES

O1

N

Silencer-exhaust speed control type

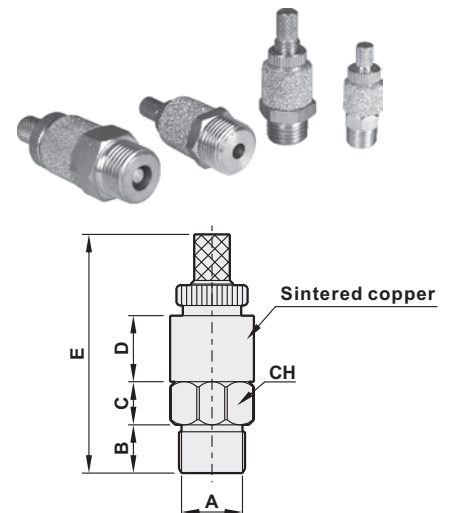
Port size

01	1/8"
02	1/4"
03	3/8"
04	1/2"

Thread

Blank	PT
N	NPT

Model	A	B	C	D	E	CH
ES-01	PT 1/8"	6.0	7.0	23.0	43.0	12.0
ES-02	PT 1/4"	9.0	7.0	28.0	48.0	16.0
ES-03	PT 3/8"	10.0	10.0	35.0	55.0	18.0
ES-04	PT 1/2"	10.0	10.0	36.0	57.0	24.0



How to order

EP
Silencer-breather vents type

O1

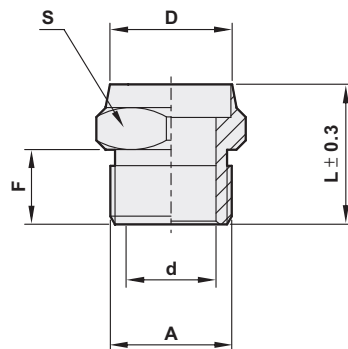
Port size			
M5	M5	04	1/2"
01	1/8"	06	3/4"
02	1/4"	08	1"
03	3/8"		

N

Thread	
Blank	PT
N	NPT



Model	A	D	d	L	F	S
EP-M5	M5	7.5	2.5	10.0	5.0	8.0
EP-01	PT 1/8"	11.4	6.5	11.3	6.4	12.0
EP-02	PT 1/4"	14.8	9.0	14.1	8.2	15.0
EP-03	PT 3/8"	18.0	12.0	15.8	9.0	19.0
EP-04	PT 1/2"	21.0	15.0	18.8	10.5	22.0
EP-06	PT 3/4"	26.0	20.0	20.8	12.0	27.0
EP-08	PT 1"	34.2	26.0	24.8	14.5	36.0



How to order

EC
Silencer-muffler type

O1

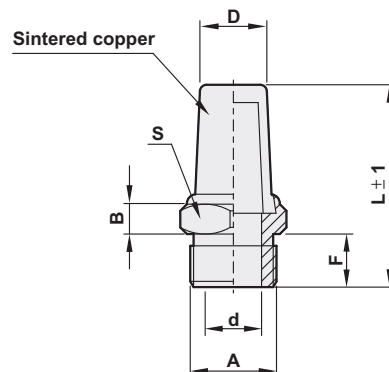
Port size			
M5	M5	04	1/2"
01	1/8"	06	3/4"
02	1/4"	08	1"
03	3/8"		

N

Thread	
Blank	PT
N	NPT




Model	A	D	d	L	F	S	B
EC-M5	M5	4.0	2.5	18.0	4.2	8.0	2.5
EC-01	PT 1/8"	8.0	6.0	25.0	7.0	13.0	4.0
EC-02	PT 1/4"	10.0	8.5	30.5	8.0	15.0	4.0
EC-03	PT 3/8"	14.0	12.0	43.0	10.0	22.0	5.0
EC-04	PT 1/2"	18.0	15.0	50.5	11.0	24.0	6.0
EC-06	PT 3/4"	21.0	19.0	59.5	14.5	30.0	6.5
EC-08	PT 1"	27.0	26.0	72.8	7.0	16.8	36.0




Specifications


Male straight

NPC		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Male elbow

NPL		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Male branch tee

NPB		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Speed controller

NSC		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Male run tee

NPD		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Female elbow

NPLF		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"


Female straight

NPCF		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"

Single universal elbow


NPH		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"

Extended stud elbow


NPLL		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	8	8	8	8	10	10	10	12	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"

Specifications


S type speed controller

NSS		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	6	8	8	8	8	10	10	10	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	


Bulkhead female union

NCM		NO	4-01	4-02	6-01	6-02	6-03	8-01	8-02	8-03	10-02	10-03	10-04	12-02	12-03	12-04			
	size	4	4	6	6	6	8	8	8	10	10	10	12	12	12				
		1/8"	1/4"	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"				


Male equal Y

NPX		NO	4-M5	4-01	4-02	6-M5	6-01	6-02	6-03	8-01	8-02	8-03	8-04	10-02	10-03	10-04	12-02	12-03	12-04
	size	4	4	4	6	6	6	6	6	8	8	8	8	10	10	10	12	12	12
		M5	1/8"	1/4"	M5	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"	


Union elbow

NPV		NO	4	6	8	10	12
	size	4	6	8	10	12	


Standpipe

NPGJ		NO	6-4	8-4	8-6	10-6	10-8
	size	6	8	8	10	10	
		4	4	6	6	8	


Union straight

NPU		NO	4	6	8	10	12
	size	4	6	8	10	12	


Unequal tee

NEG		NO	6-4	8-6	10-8	12-10
	size	6	8	10	12	
		4	6	8	10	


Union tee

NPE		NO	4	6	8	10	12
	size	4	6	8	10	12	


Unequal straight

NPG		NO	6-4	8-6	10-8	12-10
	size	6	8	10	12	
		4	6	8	10	


Bulkhead union

NPM		NO	4	6	8	10	12
	size	4	6	8	10	12	

Union Y

NPY		NO	4	6	8	10	12	
	size	4	6	8	10	12		

Unequal Y

NPW		NO	6-4	8-6	10-8	12-10
	size	6	8	10	12	
		4	6	8	10	

Specifications

Male straight



FPC 4-M5	FPC 8-M5	FPC 12-01
FPC 4-M6	FPC 8-M6	FPC 12-02
FPC 4-01	FPC 8-01	FPC 12-03
FPC 4-02	FPC 8-02	FPC 12-04
FPC 6-M6	FPC 8-03	FPC 14-02
FPC 6-M5	FPC 8-04	FPC 14-03
FPC 6-01	FPC 10-01	FPC 14-04
FPC 6-02	FPC 10-02	FPC 16-02
FPC 6-03	FPC 10-03	FPC 16-03
FPC 6-04	FPC 10-04	FPC 16-04

Male elbow



FPL 4-M5	FPL 8-01	FPL 12-03
FPL 4-M6	FPL 8-02	FPL 12-04
FPL 4-01	FPL 8-03	FPL 14-02
FPL 4-02	FPL 8-04	FPL 14-03
FPL 6-M6	FPL 10-01	FPL 14-04
FPL 6-M5	FPL 10-02	FPL 16-02
FPL 6-01	FPL 10-03	FPL 16-03
FPL 6-02	FPL 10-04	FPL 16-04
FPL 6-03	FPL 12-01	
FPL 6-04	FPL 12-02	

Male branch tee



FPB 4-M5	FPB 8-01	FPB 12-03
FPB 4-M6	FPB 8-02	FPB 12-04
FPB 4-01	FPB 8-03	FPB 14-02
FPB 4-02	FPB 8-04	FPB 14-03
FPB 6-M6	FPB 10-01	FPB 14-04
FPB 6-M5	FPB 10-02	FPB 16-02
FPB 6-01	FPB 10-03	FPB 16-03
FPB 6-02	FPB 10-04	FPB 16-04
FPB 6-03	FPB 12-01	
FPB 6-04	FPB 12-02	

Male run tee



FPD 4-M5	FPD 8-01	FPD 12-03
FPD 4-M6	FPD 8-02	FPD 12-04
FPD 4-01	FPD 8-03	FPD 14-02
FPD 4-02	FPD 8-04	FPD 14-03
FPD 6-M6	FPD 10-01	FPD 14-04
FPD 6-M5	FPD 10-02	FPD 16-02
FPD 6-01	FPD 10-03	FPD 16-03
FPD 6-02	FPD 10-04	FPD 16-04
FPD 6-03	FPD 12-01	
FPD 6-04	FPD 12-02	

Male equal Y



FPX 4-M5	FPX 8-M5	FPX 12-01
FPX 4-M6	FPX 8-M6	FPX 12-02
FPX 4-01	FPX 8-01	FPX 12-03
FPX 4-02	FPX 8-02	FPX 12-04
FPX 6-M6	FPX 8-03	FPX 14-03
FPX 6-M5	FPX 8-04	FPX 14-04
FPX 6-01	FPX 10-01	FPX 16-03
FPX 6-02	FPX 10-02	FPX 16-04
FPX 6-03	FPX 10-03	
FPX 6-04	FPX 10-04	

Extended stud elbow



FPLL 4-M5	FPLL 8-03	FPLL 16-03
FPLL 4-01	FPLL 8-04	FPLL 16-04
FPLL 4-02	FPLL 10-02	
FPLL 4-03	FPLL 10-03	
FPLL 6-01	FPLL 10-04	
FPLL 6-02	FPLL 12-03	
FPLL 6-03	FPLL 12-04	
FPLL 6-04	FPLL 14-02	
FPLL 8-01	FPLL 14-03	
FPLL 8-02	FPLL 14-04	

Union tee



FPE 4
FPE 5
FPE 6
FPE 8
FPE 10
FPE 12
FPE 14
FPE 16

Union Y



FPY 4
FPY 5
FPY 6
FPY 8
FPY 10
FPY 12
FPY 14
FPY 16

Union elbow



FPV 4
FPV 5
FPV 6
FPV 8
FPV 10
FPV 12
FPV 14
FPV 16

Union elbow



FPU 4
FPU 5
FPU 6
FPU 8
FPU 10
FPU 12
FPU 14
FPU 16

Unequal straight



FPG 54-4
FPG 6-4
FPG 16-5
FPG 18-6
FPG 10-8
FPG 12-10
FPG 14-10
FPG 16-12

Unequal Y



FPN 6-4-4
FPN 8-6-6
FPN 10-8-8
FPN 12-10-10
FPN 14-10-10
FPN 16-12-12

Union cross



FPZ 4
FPZ 5
FPZ 6
FPZ 8
FPZ 10
FPZ 12

Unequal cross



FPHZ 4-6
FPHZ 6-5
FPHZ 6-8
FPHZ 8-10
FPHZ 10-6
FPHZ 10-12

Specifications

Female elbow



FPLF 4-M5	FPLF 8-03	FPLF 14-02
FPLF 4-01	FPLF 8-04	FPLF 14-03
FPLF 6-01	FPLF 10-02	FPLF 14-04
FPLF 6-02	FPLF 10-03	FPLF 16-02
FPLF 6-03	FPLF 10-04	FPLF 16-03
FPLF 6-04	FPLF 12-02	FPLF 16-04
FPLF 8-01	FPLF 12-03	
FPLF 8-02	FPLF 12-04	

Female straight



FPCF 4-M5	FPCF 8-01	FPCF 12-03
FPCF 4-01	FPCF 8-02	FPCF 12-04
FPCF 4-02	FPCF 8-03	FPCF 14-02
FPCF 4-03	FPCF 8-04	FPCF 14-03
FPCF 6-01	FPCF 10-02	FPCF 14-04
FPCF 6-02	FPCF 10-03	FPCF 16-03
FPCF 6-03	FPCF 10-04	FPCF 16-04
FPCF 6-04	FPCF 12-02	

Male reducer/Triple branch



FPKD 4-M5	FPKD 6-03	FPKD 10-03
FPKD 4-M6	FPKD 6-04	FPKD 10-04
FPKD 4-01	FPKD 8-01	FPKD 12-03
FPKD 4-02	FPKD 8-02	FPKD 12-04
FPKD 6-M6	FPKD 8-03	FPKD 14-03
FPKD 6-M5	FPKD 8-04	FPKD 14-04
FPKD 6-01	FPKD 10-01	
FPKD 6-02	FPKD 10-02	

360° Female universal elbow



FBHF 4-01	FBHF 10-01
FBHF 4-02	FBHF 10-02
FBHF 6-01	FBHF 10-03
FBHF 6-02	FBHF 10-04
FBHF 6-03	FBHF 12-01
FBHF 6-04	FBHF 12-02
FBHF 8-01	FBHF 12-03
FBHF 8-02	FBHF 12-04
FBHF 8-03	
FBHF 8-04	

Single universal elbow



FPH 4-M5	FPH 10-01
FPH 4-01	FPH 10-02
FPH 4-02	FPH 10-03
FPH 6-M5	FPH 10-04
FPH 6-01	FPH 12-02
FPH 6-02	FPH 12-03
FPH 6-03	FPH 12-04
FPH 8-01	
FPH 8-02	
FPH 8-03	

Double universal elbow



FPHW 6-01
FPHW 6-02
FPHW 8-01
FPHW 8-02
FPHW 8-03
FPHW 10-01
FPHW 10-02
FPHW 10-03
FPHW 12-02
FPHW 12-03

Speed controller



FJSC 4-M5	FJSC 8-03
FJSC 4-01	FJSC 8-04
FJSC 4-02	FJSC 10-02
FJSC 6-M5	FJSC 10-03
FJSC 6-01	FJSC 10-04
FJSC 6-02	FJSC 12-02
FJSC 6-03	FJSC 12-03
FJSC 6-04	FJSC 12-04
FJSC 8-01	
FJSC 8-02	

S type speed controller



FJSS 6-01	FJSS 10-04
FJSS 6-02	FJSS 12-02
FJSS 6-03	FJSS 12-03
FJSS 6-04	FJSS 12-04
FJSS 8-01	
FJSS 8-02	
FJSS 8-03	
FJSS 8-04	
FJSS 10-02	
FJSS 10-03	

Triple branch union



FPKG 4
FPKG 6
FPKG 8
FPKG 10
FPKG 12
FPKG 14

Nipple hand valve



FHVFSS 01-01
FHVFSS 02-02
FHVFSS 03-03
FHVFSS 03-02
FHVFSS 04-03
FHVFSS 04-04

Straight fitting-G thread



FHVFS 6-01	FHVFS 12-02
FHVFS 6-02	FHVFS 12-03
FHVFS 6-03	FHVFS 12-04
FHVFS 8-01	
FHVFS 8-02	
FHVFS 8-03	
FHVFS 10-02	
FHVFS 10-03	
FHVFS 10-04	

Straight speed controller



FPA 4
FPA 6
FPA 8
FPA 10

Union straight



FPAC 4
FPAC 6
FPAC 8
FPAC 10
FPAC 12
FPAC 14

Mini male straight



PCX 4-M5
PCX 4-01
PCX 4-02
PCX 6-M5
PCX 6-01
PCX 6-02
PCX 8-01
PCX 8-02
PCX 8-03

Mini male elbow



PLX 4-M5
PLX 4-01
PLX 6-M5
PLX 6-01

Straight hand valve



FHVFF 4
FHVFF 06
FHVFF 08
FHVFF 10
FHVFF 12
FHVFF 14



PU tube

Model	O.D.(mm)	I.D.(mm)	Break pressure (Kgf/cm ²)
PU-0320	3	2	15
PU-0425	4	2.5	18
PU-0640	6	4	20
PU-0850	8	5	20
PU-1065	10	6.5	20
PU-1180	11	8	18
PU-1280	12	8	20
PU-1612	16	12	20
PU-1613	16	13	18
PU-1/4	6.35	4.2	20
PU-3/8	9.53	6.5	18
PU-1/2	12.6	9.6	18

Nylon tube

Model	O.D.(mm)	I.D.(mm)	Break pressure (Kgf/cm ²)
NY-0420	4	2	50
NY-0425	4	2.5	50
NY-0640	6	4	50
NY-0860	8	6	50
NY-1075	10	7.5	50
NY-1290	12	9.0	50
NY-1/4	6.35	4.57	45
NY-3/8	9.53	6.99	45
NY-1/2	12.6	9.53	50

Color of PU tube

- Standard color: Blue, Black
- Optional color: Red, Yellow, Transparent, Green

Standard color	Code	Optional color	Code
Blue	BL	Yellow	Y
Black	B	Transparent	T
		Red	R
		Green	G
		White	W

Color of Nylon tube

- Standard color: Black, Milk white

Standard color	Code
Milk white	W
Black	B

※The length of PU-0320 & PU-0425 & PU-0640 is 200M/Roll, the other is 100M/Roll.

※NY-0420 is unavailable for black.
 ※The length of NY-0420 & NY-0425 is 200M/Roll, the other is 100M/Roll.

ACCESSORIES

Features

- * Hydraulic self compensation.
- * Adjustable cushion.
- * Double cushion type.
- * Simple installation.

Installation cautions

- * Stop at 1mm before effective stroke.
- * Avoid any painting or damage on rod.
- * Strike angle on the collision head should be at right 90°, or less than 2° difference.
- * Please pay attention for the hardness of mounting plate to stand the strike.



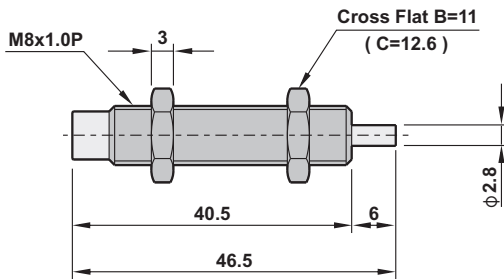
How to order

DA 25 25 - H N P

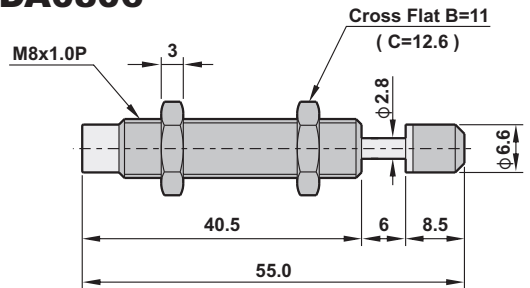
DA	Self compensation type	Tube O.D.	Stroke	H	High impact speed	Blank	W/I cap	Blank	W/O positioning screw
DAD	Double cushion type			N	Medium impact speed	NC	W/O cap	P	W/I positioning screw
CA	Adjustable type			L	Low impact speed				
				Available for DA, DAD only					

Dimensions

DA0806-NC



DA0806

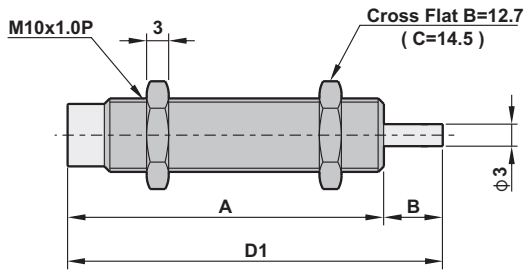


Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA0806-H	6	1.8	0.9~5.6	2	2400	-15~75
DA0806-N	6	1.8	2.5~10	1.2	2400	-15~75
DA0806-L	6	1.8	5.6~22.5	0.8	2400	-15~75

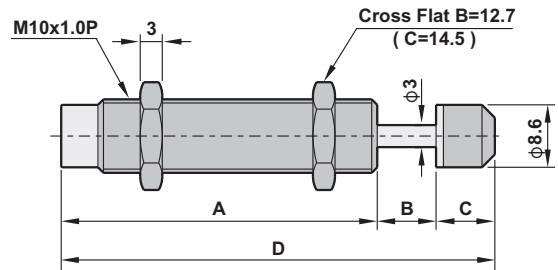
ACCESSORIES

Dimensions

DA1005, 1008-NC



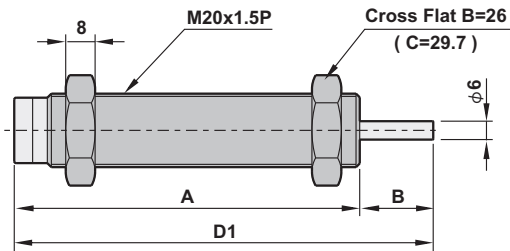
DA1005, 1008



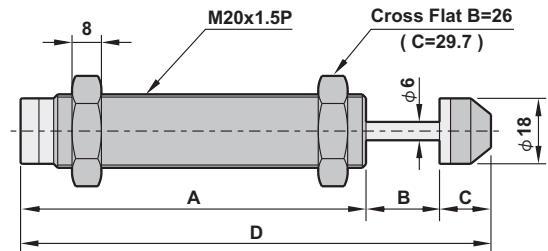
Model	A	B	C	D	D1
DA1005	45.5	5	8.5	59	50.5
DA1008	45.5	8	8.5	62	53.5

Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA1005-H	5	3.2	0.9~4.4	2.6	5760	-15~75
DA1005-N	5	3.2	2.8~10	1.5	5760	-15~75
DA1005-L	5	3.2	10~40	0.8	5760	-15~75
DA1008-H	8	3.2	0.9~4.4	2.6	5760	-15~75
DA1008-N	8	3.2	2.8~10	1.5	5760	-15~75
DA1008-L	8	3.2	10~40	0.8	5760	-15~75

DA2020, 2030, 2050-NC



DA2020, 2030, 2050

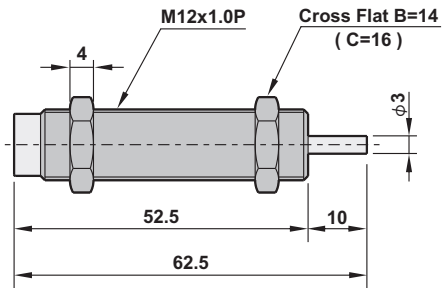


Model	A	B	C	D	D1
DA2020	94	20	14	128	114
DA2030	112	30	14	156	142
DA2050	156.5	50	14	220.5	206.5

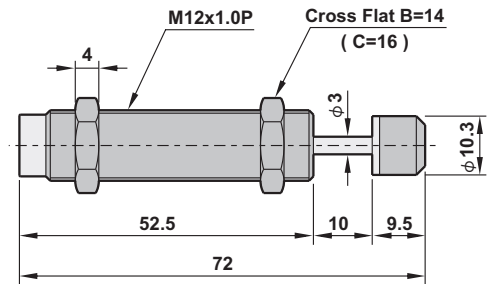
Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA2020-H	20	35	6.8~12	3.2	42000	-15~75
DA2020-N	20	35	17.5~70	2	42000	-15~75
DA2020-L	20	35	48.6~777	1.2	42000	-15~75
DA2030-H	30	46	9~36	3.2	55200	-15~75
DA2030-N	30	46	23~92	2	55200	-15~75
DA2030-L	30	46	64~575	1.2	55200	-15~75
DA2050-H	50	62	7~19.8	4.2	70200	-15~75
DA2050-N	50	62	18.3~55.1	2.6	70200	-15~75
DA2050-L	50	62	55~496	1.5	70200	-15~75

Dimensions

DA1210-NC

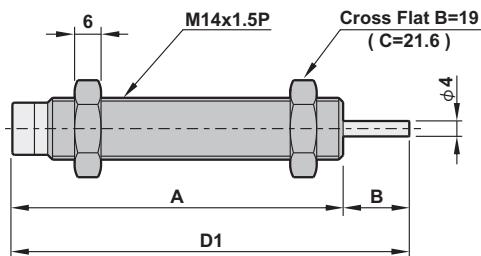


DA1210

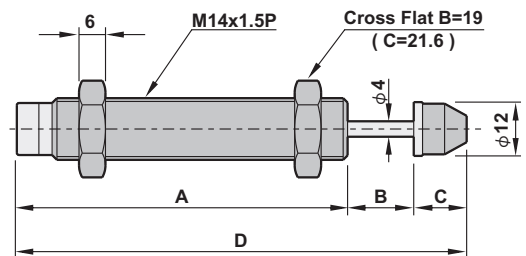


Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA1210-H	10	6	1.8~1.2	2.6	10800	-15~75
DA1210-N	10	6	5.3~18.7	1.5	10800	-15~75
DA1210-L	10	6	18.7~75	0.8	10800	-15~75

DA1412, 1415, 1416-NC



DA1412, 1415, 1416

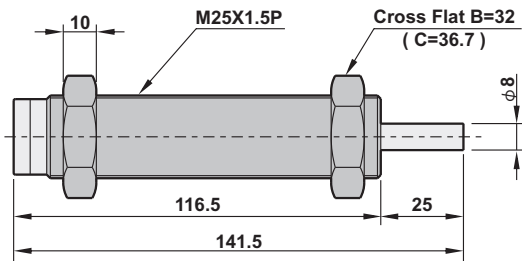


Model	A	B	C	D	D1
DA1412	75	12	12	99	87
DA1415	75	15	12	102	90
DA1416	75	16	12	106	91

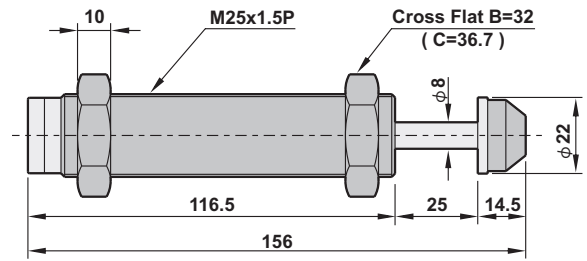
Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA1412-H	12	20	5~27	2.6	36000	-15~75
DA1412-N	12	20	17~62	1.5	36000	-15~75
DA1412-L	12	20	40~200	0.8	36000	-15~75
DA1415-H	15	20	5~27	2.6	36000	-15~75
DA1415-N	15	20	17~62	1.5	36000	-15~75
DA1415-L	15	20	40~200	0.8	36000	-15~75
DA1416-H	16	20	5~27	2.6	36000	-15~75
DA1416-N	16	20	17~62	1.5	36000	-15~75
DA1416-L	16	20	40~200	0.8	36000	-15~75

Dimensions

DA2525-NC

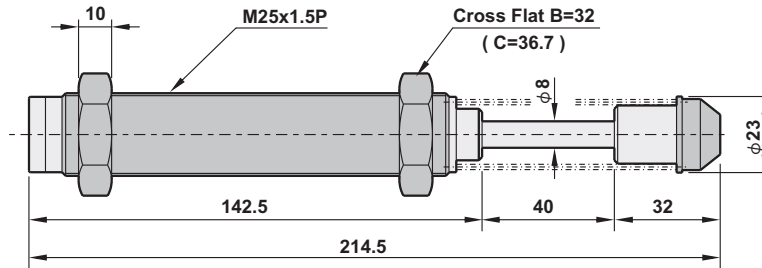


DA2525



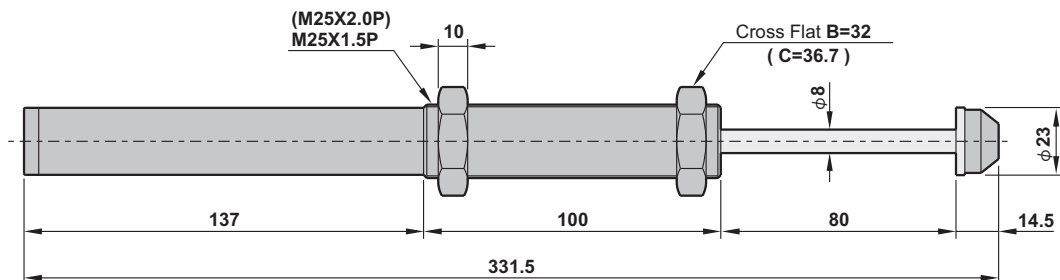
Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA2525-H	25	78	15~69	3.2	70200	-15~75
DA2525-N	25	78	39~433	2	70200	-15~75
DA2525-L	25	78	108~1733	1.2	70200	-15~75

DA2540



Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA2540-H	40	122	20~108	3.5	87840	-15~75
DA2540-N	40	122	50~381	2.2	87840	-15~75
DA2540-L	40	122	244~1991	1	87840	-15~75

DA2580

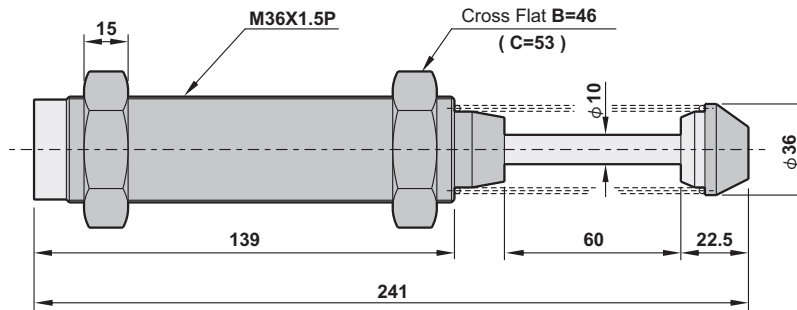


Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA2580-H	80	198	24.7~99	4	87840	-15~75
DA2580-N	80	198	44~396	3	87840	-15~75
DA2580-L	80	198	176~1584	1.5	87840	-15~75

ACCESSORIES

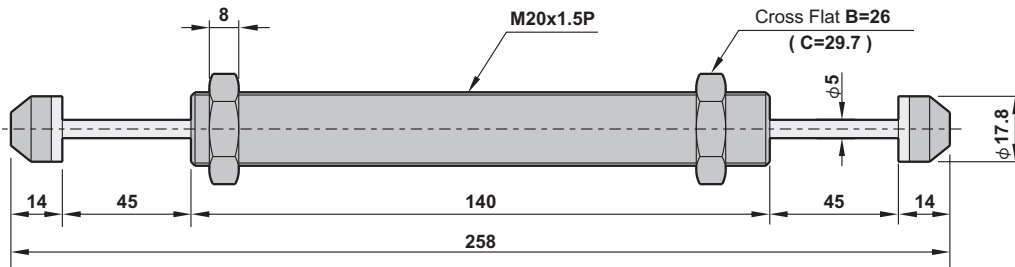
Dimensions

DA3660



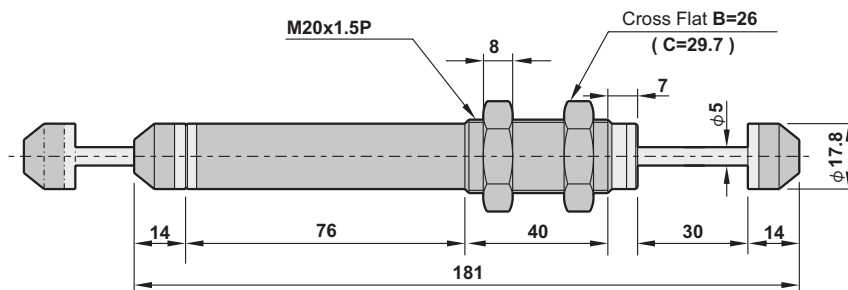
Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DA3660-H	60	260	57~231	3	124800	-15~75
DA3660-N	60	260	130~813	2	124800	-15~75
DA3660-L	60	260	520~3520	1	124800	-15~75

DAD2030



Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DAD2030-H	30	46	9~41	3.2	55200	-15~75
DAD2030-N	30	46	23~144	2	55200	-15~75
DAD2030-L	30	46	64~575	1.2	55200	-15~75

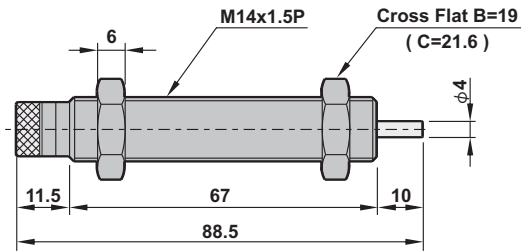
DAD2045



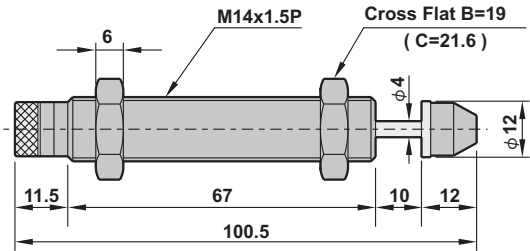
Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
DAD2045-H	45	52	10~46	3.2	64200	-15~75
DAD2045-N	45	52	26~162	2	64200	-15~75
DAD2045-L	45	52	72~650	1.2	64200	-15~75

Dimensions

CA1410-NC

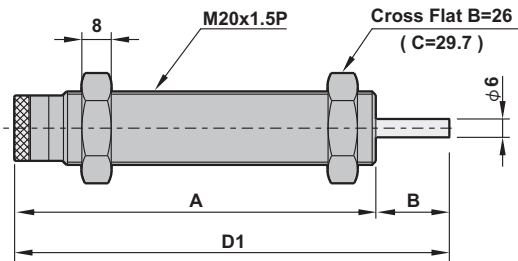


CA1410

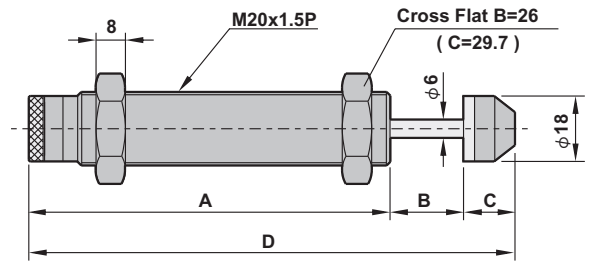


Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
CA1410	10	15	2.9~120	3.2	27000	-15~75

CA2016, 2020-NC



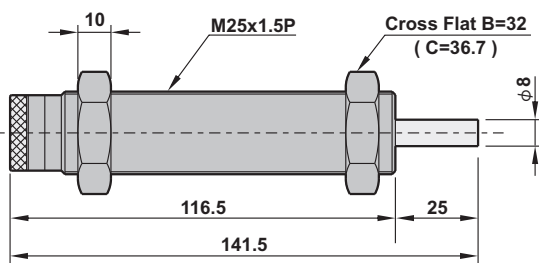
CA2016, 2020



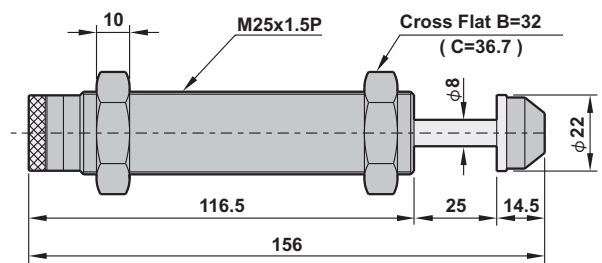
Model	A	B	C	D	D1
CA2016	100	16	14	130	116
CA2020	100	20	14	134	120

Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
CA2016	16	28	5.4~224	3.2	33600	-15~75
CA2020	20	35	6.8~280	3.2	42000	-15~75

CA2525-NC



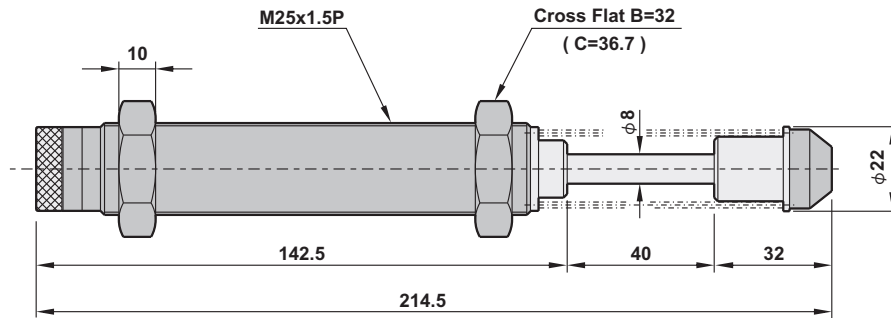
CA2525



Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
CA2525	25	78	15~624	3.2	70200	-15~75

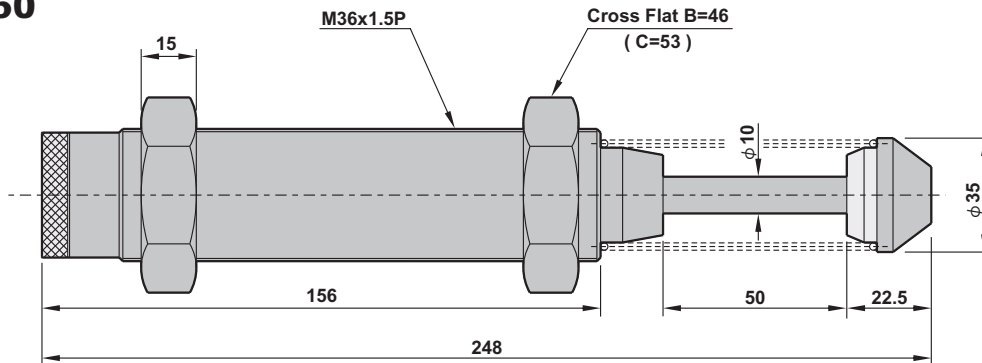
Dimensions

CA2540



Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
CA2540	40	122	23.8~976	3.2	87840	-15~75

CA3650

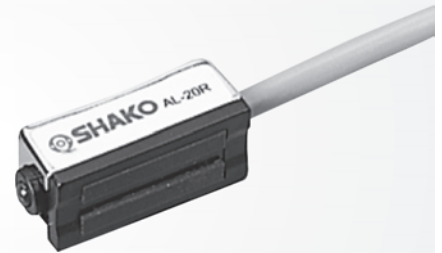


Model no.	Stroke mm	Max. Nm per cycle Nm	Effective weight We(Kg)	Max impact speed m/s	Max. Nm per hour Nm	Operating temperature °C
CA3650	50	220	43~1760	3.2	105600	-15~75

Applicable cylinder

* Applicable to cylinder IC, PC, GC, RTH series

Reed switch
AL-20R

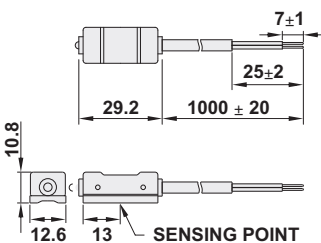


Specifications

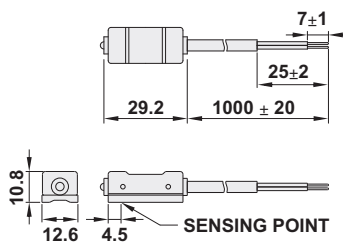
Model	AL-20R	AL-20N	AL-20P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240 VDC/AC	5~30 VDC	
Switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max. at 24V	
Voltage drop	3.5V max.	0.5V max.	
Leakage current	None	0.01mA max.	
Indicator	Green LED	Red LED	Green LED
Cable	4 φ, 2C, Gray PVC	4 φ, 3C, Black PVC	
Sensitivity(note 1)	60 Gauss		
Max. Switching frequency	200Hz	1000Hz	
Temperature range	-10°C ~ 70°C		
Shock (note 2)	30G	50G	
Vibration (note 3)	9G		
Enclosure classification	IEC529 IP67 (NEMA6)		
Protection circuit	None	Reverse Polarity, Short Circuit, Surge Suppression	
Sensor circuit diagram			

Dimensions

AL-20R



AL-20N, AL-20P



Mounting

Sensor band

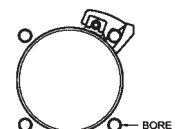
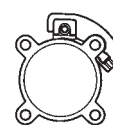
For PC ISO6432
standard cylinders
φ 12~ φ 40

Sensor bracket

For IC ISO6431
standard cylinders
φ 32~ φ 100

Sensor bracket

For AIA tie-rod
standard cylinders
φ 32~ φ 150



Note

1. Measure standard target: φ 15.5 x φ 8.5t(Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z. 3 Dimensions/3 times each direction/ 11mS each time.
3. Double amplitude 1.5mm/10Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/1 Hour Each time.

Applicable cylinder

* Applicable to cylinder IC, PC, GC, RTH series



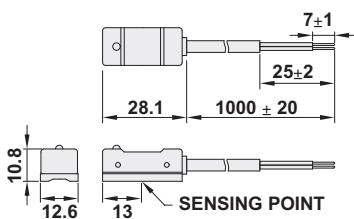
Reed switch
AL-21R

Specifications

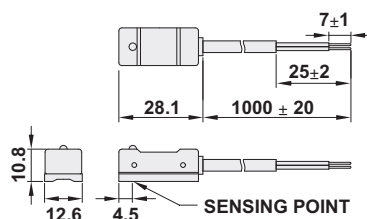
Model	AL-21R	AL-21N	AL-21P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240 VDC/AC	5~30 VDC	
Switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max. at 24V	
Voltage drop	3.5V max.	0.5V max.	
Leakage current	None	0.01mA max	
Indicator	Green LED	Red LED	Green LED
Cable	4 φ, 2C, Gray PVC	4 φ, 3C, Black PVC	
Sensitivity(note 1)		60 Gauss	
Max. Switching frequency	200Hz	1000Hz	
Temperature range		-10°C ~ 70°C	
Shock (note 2)	30G	50G	
Vibration (note 3)		9G	
Enclosure classification		IEC529 IP67 (NEMA6)	
Protection circuit	None	Reverse Polarity, Short Circuit, Surge Suppression	
Sensor circuit diagram			

Dimensions

AL-21R



AL-21N, AL-21P



Mounting

Sensor band

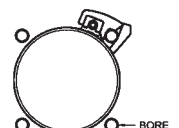
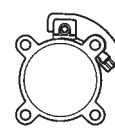
For PC ISO6432 standard cylinders
φ 12~ φ 40

Sensor bracket

For IC ISO6431 standard cylinders
φ 32~ φ 100

Sensor bracket

For AIA tie-rod standard cylinders
φ 32~ φ 150



Note

1. Measure standard target: φ 15.5 x φ 8.5t(Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z. 3 Dimensions/3 times each direction/ 11mS each time.
3. Double amplitude 1.5mm/10Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/1 Hour Each time.

Applicable cylinder

* Applicable to cylinder JC, TR, HYC, HPC, HPS, HYS series

Reed switch
AL-07R

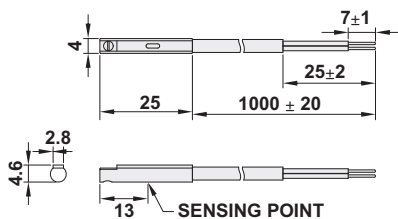


Specifications

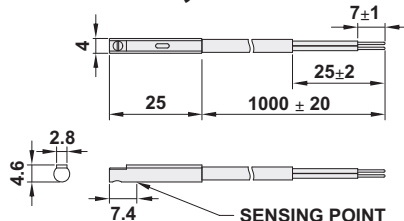
Model	AL-07R	AL-07N	AL-07P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120 VDC/AC	5~30 VDC	
Switching current	100mA max.	200mA max.	
Contact rating	10W max.	6W max.	
Current consumption	None	20mA max. at 24V	
Voltage drop	2.5V max.	0.5V at 200mA max.	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	2.8φ, 2C, Gray PVC	2.8φ, 3C, Black PVC	
Sensitivity(note 1)		40 Gauss	
Max. Switching frequency	200HZ	1000Hz	
Temperature range		-10°C ~ 70°C	
Shock (note 2)	30G	50G	
Vibration (note 3)		9G	
Enclosure classification		IEC529 IP67 (NEMA6)	
Protection circuit	None	Reverse Polarity, Short Circuit, Surge Suppression	
Sensor circuit diagram			

Dimensions

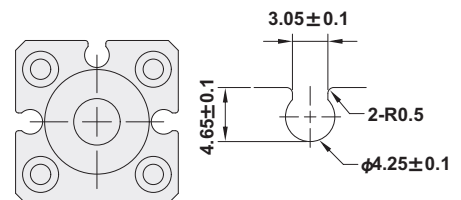
AL-07R



AL-07N, AL-07P



Applicably groove



Note

1. Measure standard target: $\phi 15.5 \times \phi 8.5$ (Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z 3 Dimensions/3 times each direction/ 11mS Each time.
3. Double amplitude 1.5mm/10 Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/ 1 Hour Each time.

Applicable cylinder

* Applicable to cylinder JC, DR, TR, RCP series

Reed switch
AL-11R

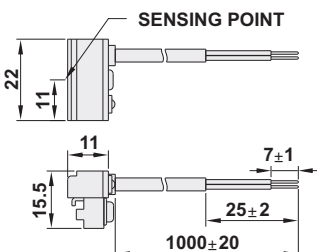


Specifications

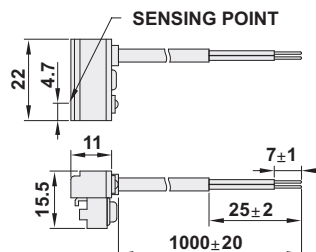
Model	AL-11R	AL-11N	AL-11P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~240 VDC/AC	5~30 VDC	
Switching current	100mA max.	200mA max.	
Contact rating	10Wmax.	6W max.	
Current consumption	None	22mA max. at 24V	20mA max. at 24V
Voltage drop	3.5V max.	0.5V max. at 200mA	
Leakage current	None	0.01mA max.	
Indicator	Green LED	Red LED	Green LED
Cable	3.3φ, 2C, Gray PVC	3.3φ, 3C, Black PVC	
Sensitivity(note 1)		40 Gauss	
Max. Switching frequency	200Hz	1000Hz	
Temperature range		-10°C ~ 70°C	
Shock (note 2)	30G	50G	
Vibration (note 3)		9G	
Enclosure classification		IEC529 IP67 (NEMA6)	
Protection circuit	None	Reverse Polarity, Short Circuit, Surge Suppression	
Sensor circuit diagram			

Dimensions

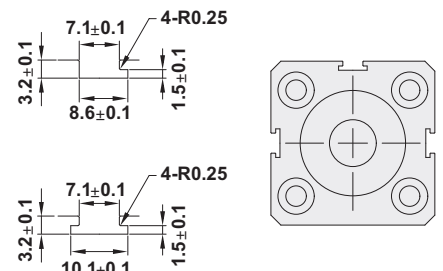
AL-11R



AL-11N, AL-11P



Applicably groove



Note

1. Measure standard target: $\phi 15.5 \times \phi 8.5t$ (Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z 3 Dimensions/3 times each direction/ 11mS Each time.
3. Double amplitude 1.5mm/10 Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/ 1 Hour Each time.

Applicable cylinder

* Applicable to cylinder JC, TR, HYC, HPC, HPS series

Reed switch
AL-16R

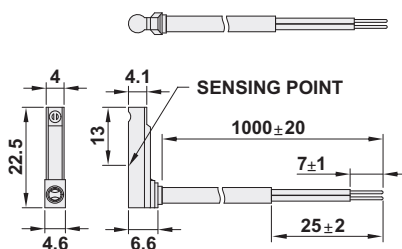


Specifications

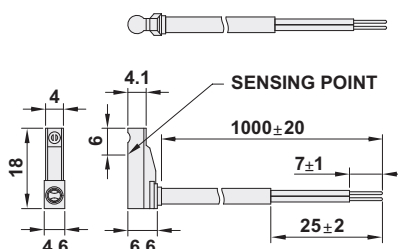
Model	AL-16R	AL-16N	AL-16P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120 VDC/AC	5~28 VDC	
Switching current	100mA	200mA	
Contact rating	10W(VA)	6W	
Current consumption	None	15mA max. at 24V(switch active) 16mA max. at 24V(switch active)	
Voltage drop	2.5V max. at 40mA DC	0.5V at 200mA 24VDC	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	2.8φ, 2C, Gray PVC	2.8φ, 3C, Black PVC	
Sensitivity(note 1)		40 Gauss	
Max. Switching frequency		1000Hz	
Temperature range		-10°C ~ 70°C	
Shock (note 2)	30G	50G	
Vibration (note 3)		9G	
Enclosure classification		IP67 (NEMA6)	
Protection circuit	None	Reverse Polarity	
Sensor circuit diagram			

Dimensions

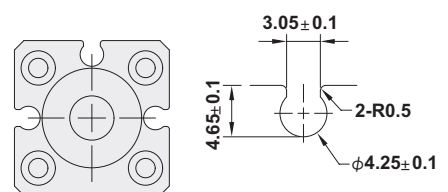
AL-16R



AL-16N, AL-16P



Applicably groove



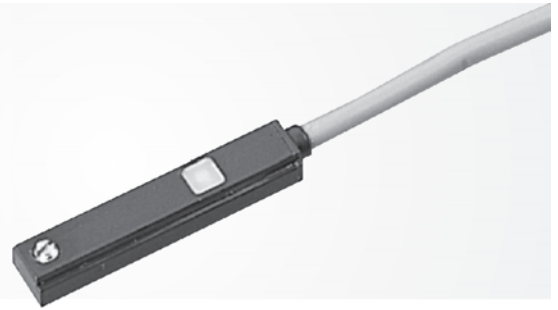
Note

1. Measure standard target: $\phi 15.5 \times \phi 8.5$ (Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z 3 Dimensions/3 times each direction/ 11mS Each time.
3. Double amplitude 1.5mm/10 Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/ 1 Hour Each time.

Applicable cylinder

* Applicable to cylinder ZS, ZF, ZK series

Reed switch
AL-30R

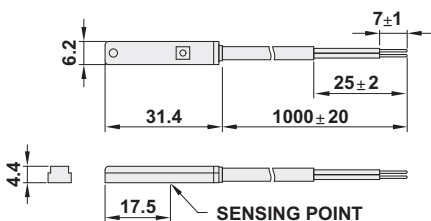


Specifications

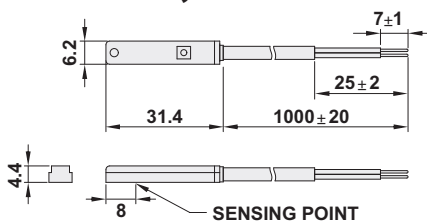
Model	AL-30R	AL-30N	AL-30P
Switching logic	SPST Normally open	Solid state output, Normally open	
Sensor type	Reed switch	NPN current sinking	PNP current sourcing
Operating voltage	5~120 VDC/AC	5~28 VDC	
Switching current	100mA	200mA	
Contact rating	10W(VA)	6W	
Current consumption	None	15mA max. at 24V(switch active) 16mA max. at 24V(switch active)	
Voltage drop	2.5V max. at 40mA DC	1.5V at 200mA 24VDC	
Leakage current	None	0.01mA max.	
Indicator	Red LED	Red LED	Green LED
Cable	2.8φ, 2C, Gray PVC	2.8φ, 3C, Black PVC	
Sensitivity(note 1)		40 Gauss	
Max. Switching frequency	200Hz	1000Hz	
Temperature range		-10°C ~ 70°C	
Shock (note 2)	30G	50G	
Vibration (note 3)		9G	
Enclosure classification		IP67 (NEMA6)	
Protection circuit	None	Reverse Polarity	
Sensor circuit diagram			

Dimensions

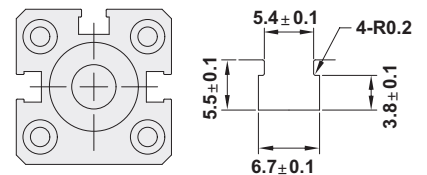
AL-30R



AL-30N, AL-30P



Applicably groove



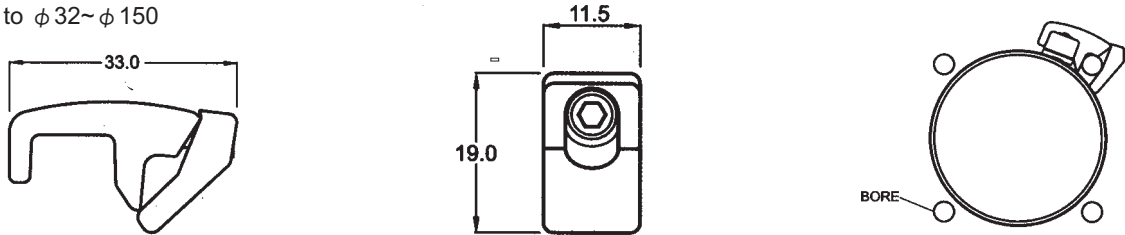
Note

1. Measure standard target: $\phi 15.5 \times \phi 8.5$ (Anisotropy Rubber Magnet)
2. Sin wave/X.Y.Z 3 Dimensions/3 times each direction/ 11mS Each time.
3. Double amplitude 1.5mm/10 Hz~55Hz~10Hz(Sweep 1min)/X.Y.Z 3 Dimensions/ 1 Hour Each time.

For sensor switch use

● Mounting bracket for tie-rod standard cylinder

* Apply to $\phi 32 \sim \phi 150$



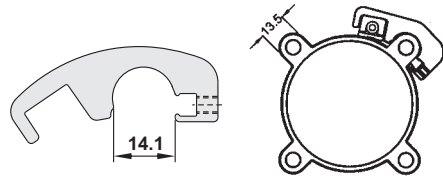
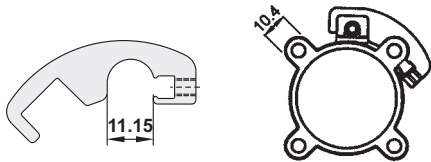
● Mounting bracket for ISO6431 standard cylinder

* Apply to $\phi 32 \sim \phi 100$

● How to order

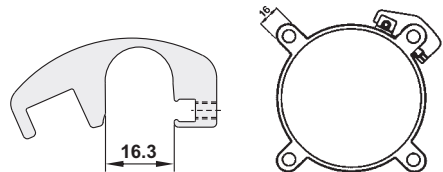
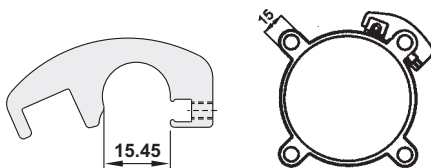
ZFAF32 Apply to $\phi 32, \phi 40$

ZFAF50 Apply to $\phi 50, \phi 63$



ZFAF80 Apply to $\phi 80$

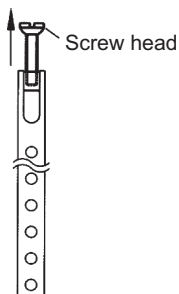
ZFAF100 Apply to $\phi 100$



● Sensor band for round cylinder PC, PCL series from $\phi 12 \sim \phi 40$

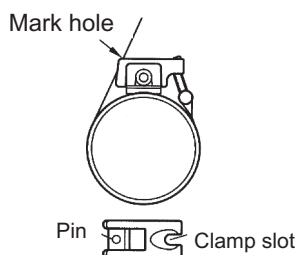
Step 1

Start by keeping screw 3 to 4 turns into barrel nut on the end of the band assembly.



Step 2

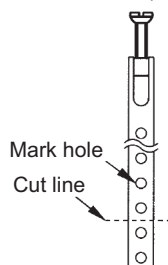
Place the screw head into clamp slot and wrap the band around the cylinder. Position the pin with the nearest hole on the band and mark the hole with a permanent marker.



Code: ZFCP12

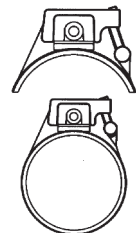
Step 3

Remove clamp assembly from the cylinder. Locate the marked hole that fits to the cylinder size, cut the band at midway between the next two adjacent hole.
(The one that's further away from the screw nut)



Step 4

Insert cut end of the band into a flat slot opposite from the clamp slot. Place the chosen hole over the pin and bend the band firmly down with thumb pressure. Then wrap the band around cylinder barrel and re-insert screw head into clamp. Position the switch and tighten.

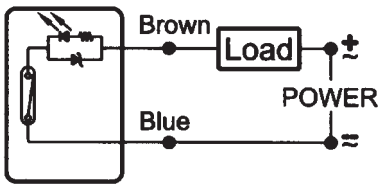


Do not over tighten, it could damages the switch or cylinder.

Applicable cylinder

1. Particular attention must be paid not to exceed the working limits list.

2. Reed switch type connection polarities must be respected, that is the brown wire series load to the positive(+) and the blue to the negative(-) of power source. If these are inverted the sensor remains switched, the load connected and the LED turned off. However, this would not damage the circuit.

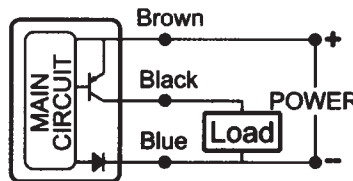
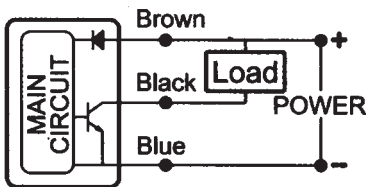


Brown
Blue
Load
Power

3. Solid state type connection polarities must be respected, that is the brown wire to the positive(+) and the blue to the negative(-) from DC power.

The black wire have to connect to the load.

If black wire was connected to power source, the sensor would be damaged.

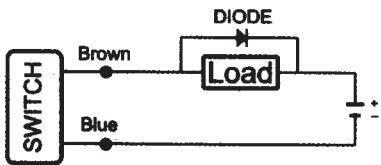


4. The external protect element is required if sensor is used to switch conductive load.

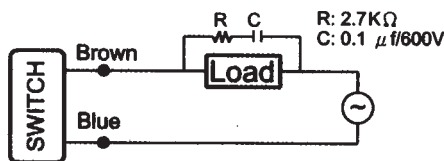
In case of DC conductive load, e.g. relay, solenoid valve.

Attach an external diode parallel to the conductive load.

And use R-C circuit to replace diode for AC conductive load.



Applicably to DC Conductive Load



Applicably to AC Conductive Load

5. Keep out of the strong magnetic field to get rid of interference.