

# KURODA

## COMPACT AIR CYLINDER X series

XG TYPE WITH BUILT-IN SWITCH AVAILABLE

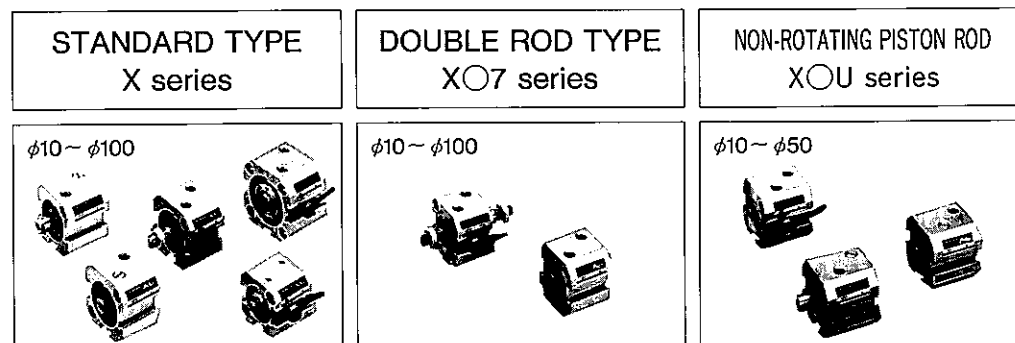
Switch is mountable on any of 3 sides.

RUBBER MAGNET AS STANDARD

Usable as XG type only by adding switches into slot.

COMPACT DESIGN

Uniquely designed square body slotted for switches.



### ACTING

	STANDARD TYPE X series	DOUBLE ROD TYPE XO7 series	NON-ROTATING PISTON ROD XOU series
Double Acting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Single Acting (Spring return)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Single Acting (Spring extend)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### CUSHION

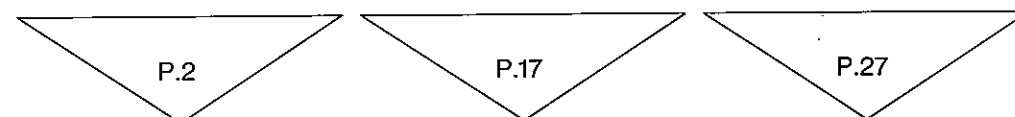
	STANDARD TYPE X series	DOUBLE ROD TYPE XO7 series	NON-ROTATING PISTON ROD XOU series
Damper cushion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No cushion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### PISTON ROD END SPECIFICATION

	STANDARD TYPE X series	DOUBLE ROD TYPE XO7 series	NON-ROTATING PISTON ROD XOU series
Female thread	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Male thread	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### POSITION DETECTOR SWITCH

	STANDARD TYPE X series	DOUBLE ROD TYPE XO7 series	NON-ROTATING PISTON ROD XOU series
M type reed switch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M type proximity switch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



### ACCESSORIES

[Option] ● Rod end nut (P.16) ● M type switch(P.44)

### ORDER MADE CYLINDER

Dual stroke cylinder (P.39)

Adjustable stroke cylinder (P.41)

Cylinder with hollow rod (P.43)

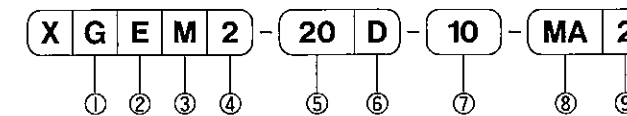
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COMPACT AIR CYLINDER/STANDARD TYPE

# X series

φ10、φ16、φ20、φ25、φ32、φ40、φ50、φ63、φ80、φ100

### ORDERING INSTRUCTIONS



#### ①Magnet

C	No magnet	With switch unavailable
G	Built-in magnet	With switch available

#### ②Mounting holes

No mark	Through holes (Standard)
E	Female thread

#### ③Piston rod end spec.

No mark	Female threaded (Standard)
M	Male threaded

#### ④Acting

2	Double Acting single rod
1	Single Acting single rod (Spring return)
0	Single Acting single rod (Spring extend)

#### ⑤Bore (mm)

10	φ10
16	φ16
20	φ20
25	φ25
32	φ32
40	φ40
50	φ50
63	φ63
80	φ80
100	φ100

#### MODEL NO. OF PACKING SET

Bore (mm)	Packing set
φ10	X10-PS
φ16	X16-PS
φ20	X20-PS
φ25	X25-PS
φ32	X32-PS
φ40	X40-PS
φ50	X50-PS
φ63	X63-PS
φ80	X80-PS
φ100	X100-PS

#### ⑥Damper

No mark	No damper
D	Built-in damper

#### ⑦Stroke (mm)

Refer to the Table of Standard Stroke (P.3)

#### ⑧Type of switch

No mark	No switch	
MA	MA-1 (AC100V, PC24V)	M type Reed switch
MB	MD-1 (DC24V)	
MC	MD-3 (DC5, 6V)	
MD	MR (AC, DC5 ~ 100V)	
ME	MA-2L (AC100/110V)	
MF	MA-2H (AC200/220V)	M type Proximity switch
MG	MT-3 (DC5 ~ 30V)	
MH	MT-3U (DC5 ~ 30V)	
MJ	MT-2 (DC24)	
MK	MT-2U (DC24)	

#### ⑨Number of switch

No mark	No switch
2	With 2 units
1	With 1 unit

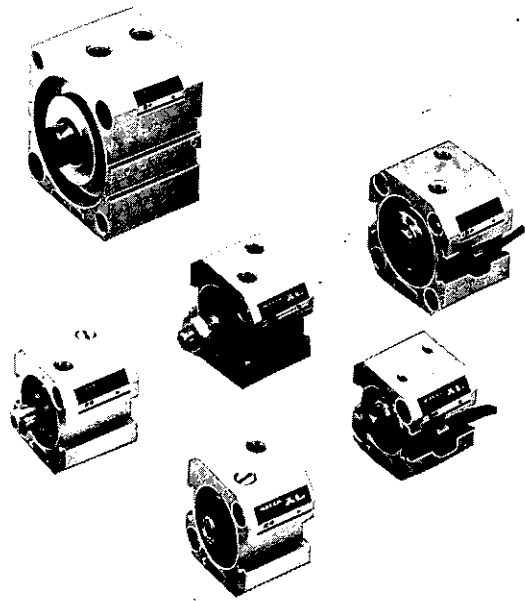
#### MODEL NO. OF SWITCH SET

Bore (mm)	M type switch
φ10	X10-MJ
φ16	X16-MJ
φ20、φ25、φ32	X20-MJ
φ40、φ50	X20-MJ
φ63、φ80、φ100	X63-MJ

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# COMPACT AIR CYLINDER/STANDARD TYPE X series

φ10、φ16、φ20、φ25、φ32、φ40、φ50、  
φ63、φ80、φ100



## SPECIFICATIONS

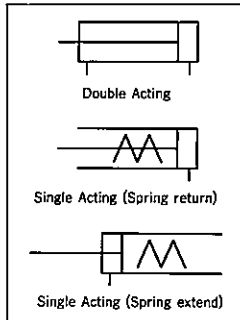
Acting	Unit	Double Acting	Single Acting
Fluid		Non-lubricated/lubricated air	
Pressure range	φ10~φ50 MPa	0.1~0.7(1.0~7.1)	0.25~0.7(2.6~7.1)
	φ63~φ100 (kgf/cm <sup>2</sup> )	0.05~0.7(0.5~7.1)	0.2~0.7(2.0~7.1)
Temperature range	°C	5~60	
Piston speed range	mm/s	50~500	
Cushion		Not provided	
Stroke piston allowance	mm	+1.0 0	
Mounting		Basic type	

## STANDARD STROKE (Unit:mm)

Acting	Bore	Standard stroke	Max. stroke
Double Acting	φ10	5, 10	30 (25)
	φ16		
	φ20	5, 10, 15, 20 25 30 35 40 45 50	100 (95)
	φ25		
	φ32		
	φ40		
	φ50		
	φ63	10 20 30 40 50	150 (140)
	φ80		
	φ100		
Single Acting	φ10	5 10	20 (15)
	φ16		
	φ20	50 (45)	
	φ25		
	φ32		
	φ40		
φ50	5 10 15 20		

- Strokes other than standard ones  
Cylinders with a stroke exceeding standards are available in steps of 5 mm for bores φ10 to φ50 and in steps of 10 mm for bores φ63 to φ100.
  - Intermediate stroke  
Cylinders with intermediate strokes are supplied with internal spacers.
- (Note) Bracketed ( ): Critical stroke with damper.

## JIS Symbol



The numerical values shown in this catalog are mainly those in SI unit. However the table of output values is shown using the usual unit. Convert the usual unit into SI unit in accordance with the following formula:  
Pressure Y (MPa) = X (kgf/cm<sup>2</sup>) × 9.80665 × 10<sup>-2</sup>  
Force Y (N) = X (kgf) × 9.80665

# COMPACT AIR CYLINDER/X series

## THEORETICAL OUTPUT

Bore (mm)	Direction of rod	Supplied pressure (kgf/cm <sup>2</sup> )		
		3	5	7
φ10	Out stroke	2.3	3.9	5.4
	In stroke	1.7	2.9	4.1
φ16	Out stroke	6	10	14
	In stroke	5	8.5	12
φ20	Out stroke	9	15	21
	In stroke	7	13	18
φ25	Out stroke	14	24	24
	In stroke	12	20	28
φ32	Out stroke	24	40	56
	In stroke	20	34	48
φ40	Out stroke	37	62	87
	In stroke	31	52	73
φ50	Out stroke	58	98	137
	In stroke	49	82	115
φ63	Out stroke	93	155	218
	In stroke	84	140	196
φ80	Out stroke	150	251	351
	In stroke	136	226	317
φ100	Out stroke	235	392	549
	In stroke	214	357	500

(Note) Effective output = Theoretical output × 0.85

## MODEL WITH SWITCH/For detailed specifications of switches, refer to Page 44.

### M TYPE REED SWITCH

Lead wire type

Type of switch	Rated voltage (V)	Rated current range (mA)	Pilot lamp (Lights up at ON)	Applications
MA-1	AC100	5~45	○	Relay
	DC24	5~45	○	PLC
MD-1	DC24	25~65	○	Relay
MD-3	DC5, 6	max.50 (Inductive load) max.300 (Resistance)	○	IC circuit
MR	AC 5~100 DC	max.50 (Inductive load) max.300 (Resistance)		Relay PLC
MA-2L	AC100/110	5~150	○	Relay
MA-2H	AC200/220	5~150	○	Relay

(Note) The MA-2L is the same as the MA-1 except that it is provided with the protective circuit SS-2L.  
The MA-2H is the same as the MA-1 except that it is provided with the protective circuit SS-2H.

## Single Acting (Spring return) (Unit:kgf)

Bore (mm)	Direction of rod	Supplied pressure (kgf/cm <sup>2</sup> )		
		3	5	7
φ10	Out stroke	1.4	2.9	4.5
φ16		5	9	13
φ20		7	13	19
φ25		11.5	21.5	31.5
φ32		18.5	34.5	50.5
φ40		29	54	79
φ50		45	85	124

## Single Acting (Spring extend) (Unit:kgf)

Bore (mm)	Direction of rod	Supplied pressure (kgf/cm <sup>2</sup> )		
		3	5	7
φ10	In stroke	0.9	2.1	3.3
φ16		4	7.5	11
φ20		5	11	16
φ25		9.5	17.5	25.5
φ32		14.5	28.5	42.5
φ40		23	44	65
φ50		36	69	102

(Note) The output of a single acting cylinder is calculated by subtracting the spring force.

### M TYPE PROXIMITY SWITCH

Lead wire type

Type of switch	Rated voltage (V)	Rated current range (mA)	Pilot lamp (Lights up at ON)	Applications
MT-2	DC24	5~100	○	Relay
MT-2U	(DC10~30)			PLC
MT-3	DC5~30	5~100	○	Relay
MT-3U				PLC IC circuit

## MINIMUM STROKE WITH M TYPE SWITCH (Unit:mm)

Bore (mm)	Number of switch	
	With 2 units	With 1 unit
φ10	10	5
φ16		
φ20		
φ25		
φ32		
φ40		
φ50		
φ63		
φ80		
φ100		

# COMPACT AIR CYLINDER/X series

# COMPACT AIR CYLINDER/X series

## CYLINDER WEIGHT/Double Acting

(Unit:g)

Bore (mm)	Stroke (mm)									
	5	10	15	20	25	30	35	40	45	50
φ10	28	35	-	-	-	-	-	-	-	-
φ16	48	56	-	-	-	-	-	-	-	-
φ20	80	93	105	117	130	142	155	167	180	192
φ25	113	129	146	162	179	195	212	228	245	261
φ32	180	205	230	250	275	295	320	345	370	390
φ40	280	310	340	370	400	430	460	490	520	550
φ50	460	500	540	580	625	670	710	750	795	840
φ63	-	900	-	1000	-	1100	-	1200	-	1300
φ80	-	1700	-	1900	-	2100	-	2300	-	2500
φ100	-	2500	-	2750	-	3000	-	3250	-	3500

## CYLINDER WEIGHT

Single Acting (Spring return)

(Unit:g)

Bore (mm)	Stroke (mm)			
	5	10	15	20
φ10	28	35	-	-
φ16	48	56	-	-
φ20	83	96	-	-
φ25	118	134	-	-
φ32	180	205	-	-
φ40	285	315	-	-
φ50	440	480	525	570

## CYLINDER WEIGHT

Single Acting (Spring extend)

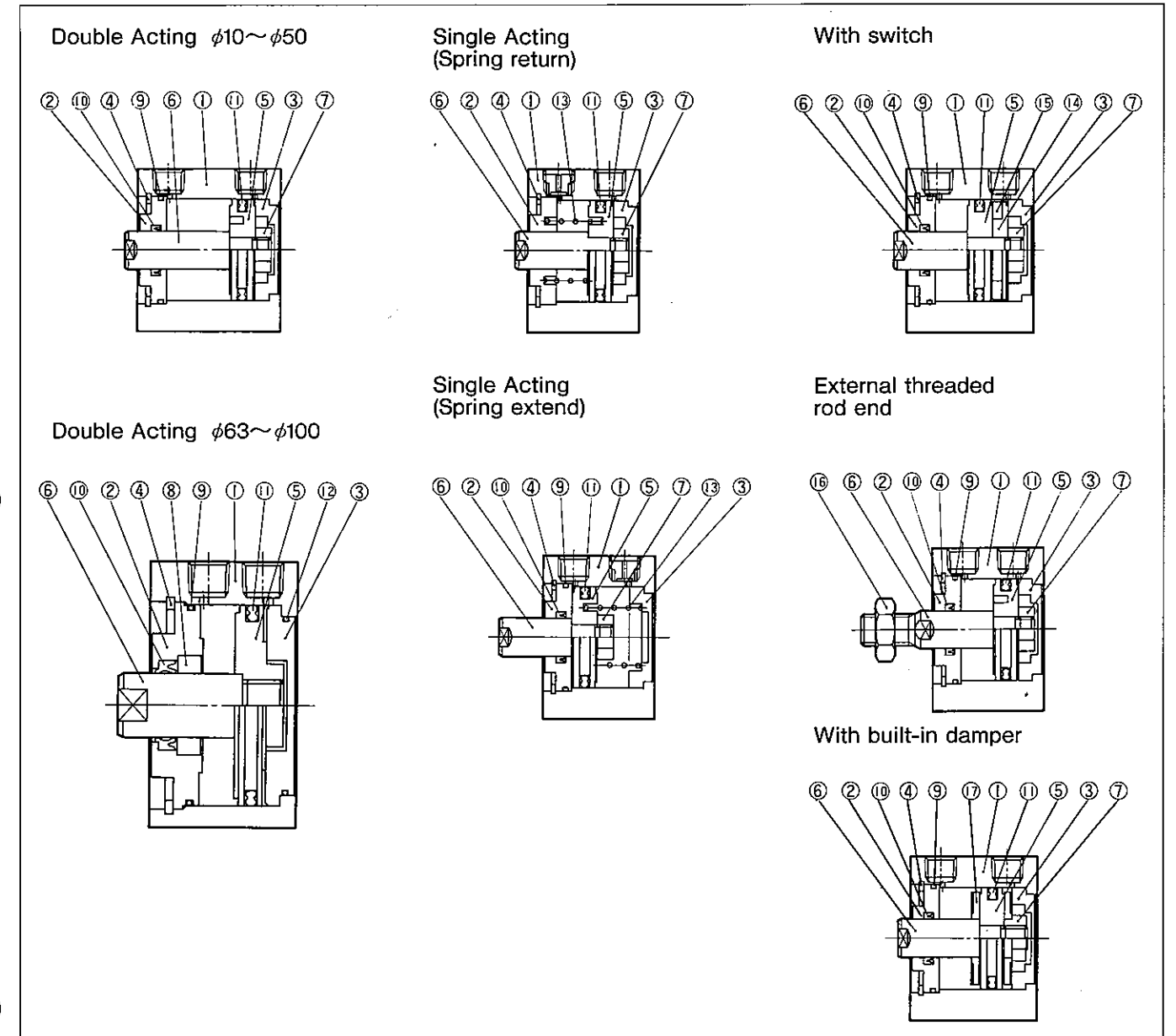
(Unit:g)

Bore (mm)	Stroke (mm)			
	5	10	15	20
φ10	28	34	-	-
φ16	48	56	-	-
φ20	82	95	-	-
φ25	115	131	-	-
φ32	185	210	-	-
φ40	285	315	-	-
φ50	460	500	545	590

## MOUNTING SCREW

- When mounting the Compact Cylinder with switch XG ※※-10, use the special screws supplied.  
Cap screw (SUS) M3
- For Compact Cylinders other than the above, a mounting screw for standard use is available.

## CONSTRUCTION



## PARTS LIST

No.	Parts name	No.	Parts name
①	Body	⑩	Rod packing
②	Bushing	⑪	Piston packing
③	End cover	⑫	End cover gasket
④	C clip	⑬	Return spring
⑤	Piston	⑭	Magnet holder
⑥	Piston rod	⑮	Magnet
⑦	Lock nut	⑯	Rod end nut
⑧	Bearing	⑰	Damper
⑨	Bushing gasket		

## PACKING LIST

No.	Name	Bore (mm)									
		φ10	φ16	φ20	φ25	φ32	φ40	φ50	φ63	φ80	φ100
⑨	Bushing gasket	SO-013-7	IN-15	IN-18	SO-015-25	SO-015-29	KG-40	KG-50	IN-56	IN-75	IN-95
⑩	Rod packing	MYN-5	MYN-6	MYN-8	MYN-10A	MYN-12	MYN-16	MYN-20	PDU-20	PDU-25	PDU-30
⑪	Piston packing	PSD-10	PSD-16	PSD-20	PSD-25	PSD-32	PSD-40	PSD-50	PSD-63	PSD-80	PSD-100
⑫	End cover gasket	-	-	-	-	-	-	-	AS568-033	AS568-038	AS568-043

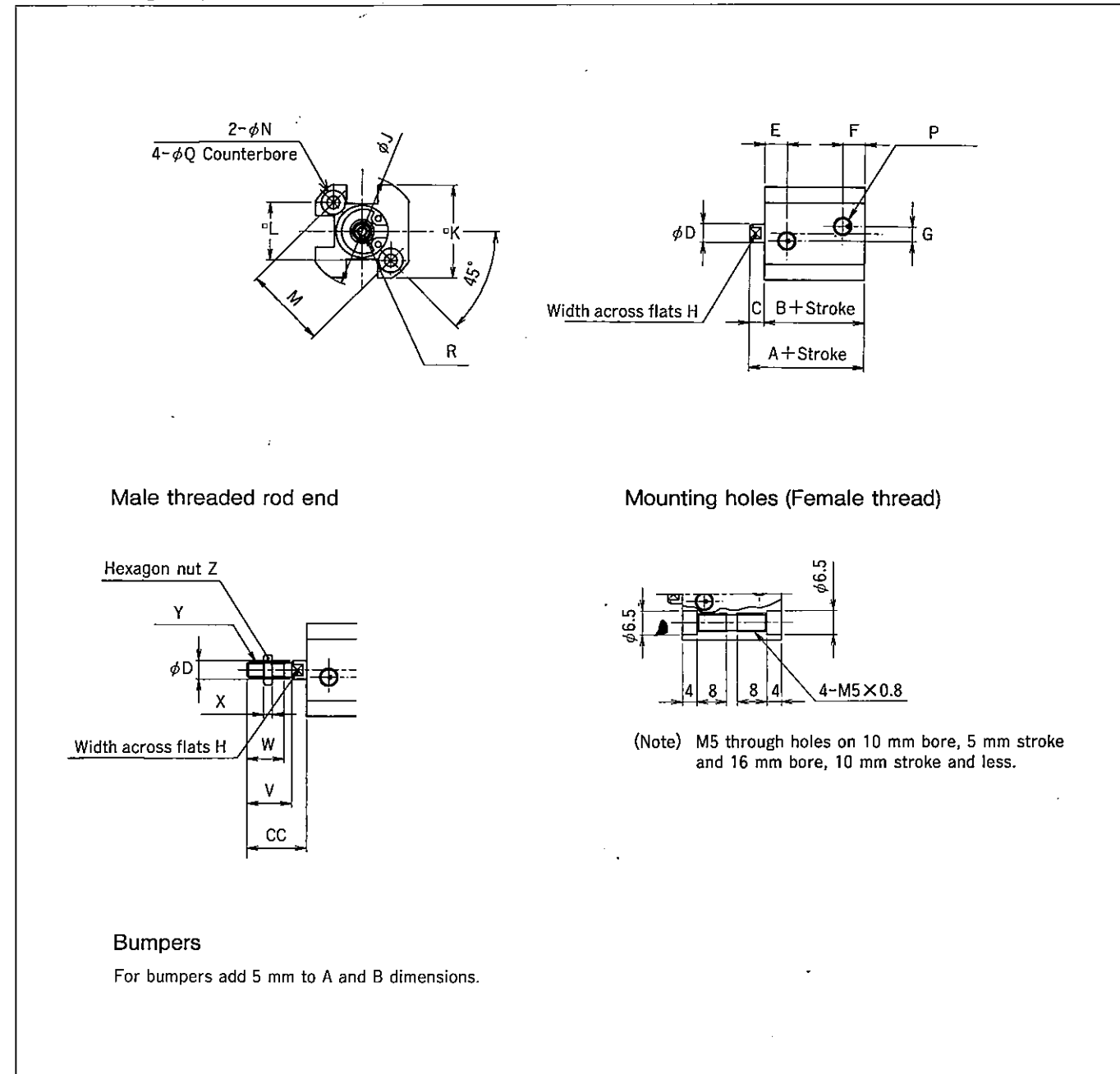
(Note) A packing kit including above is available.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Double Acting  $\phi 10, \phi 16/XO2$

(Unit:mm)



Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 10$	21 31	17 27	4	5	6	6	4	4	30	25	15.6	22	3.4	M5×0.8	6.5 depth 4
$\phi 16$	22.5 32.5	18.5 28.5	4	6	6.5	6.5	6	5	38	30	20	28.3	3.4	M5×0.8	6.5 depth 4

Bore	R	CC	V	W	X	Y	Z
$\phi 10$	M2.6×0.45 depth 5	16	12	10	2.4	M4×0.7	M4×0.7
$\phi 16$	M3×0.5 depth 5	16	12	10	2.4	M4×0.7	M4×0.7

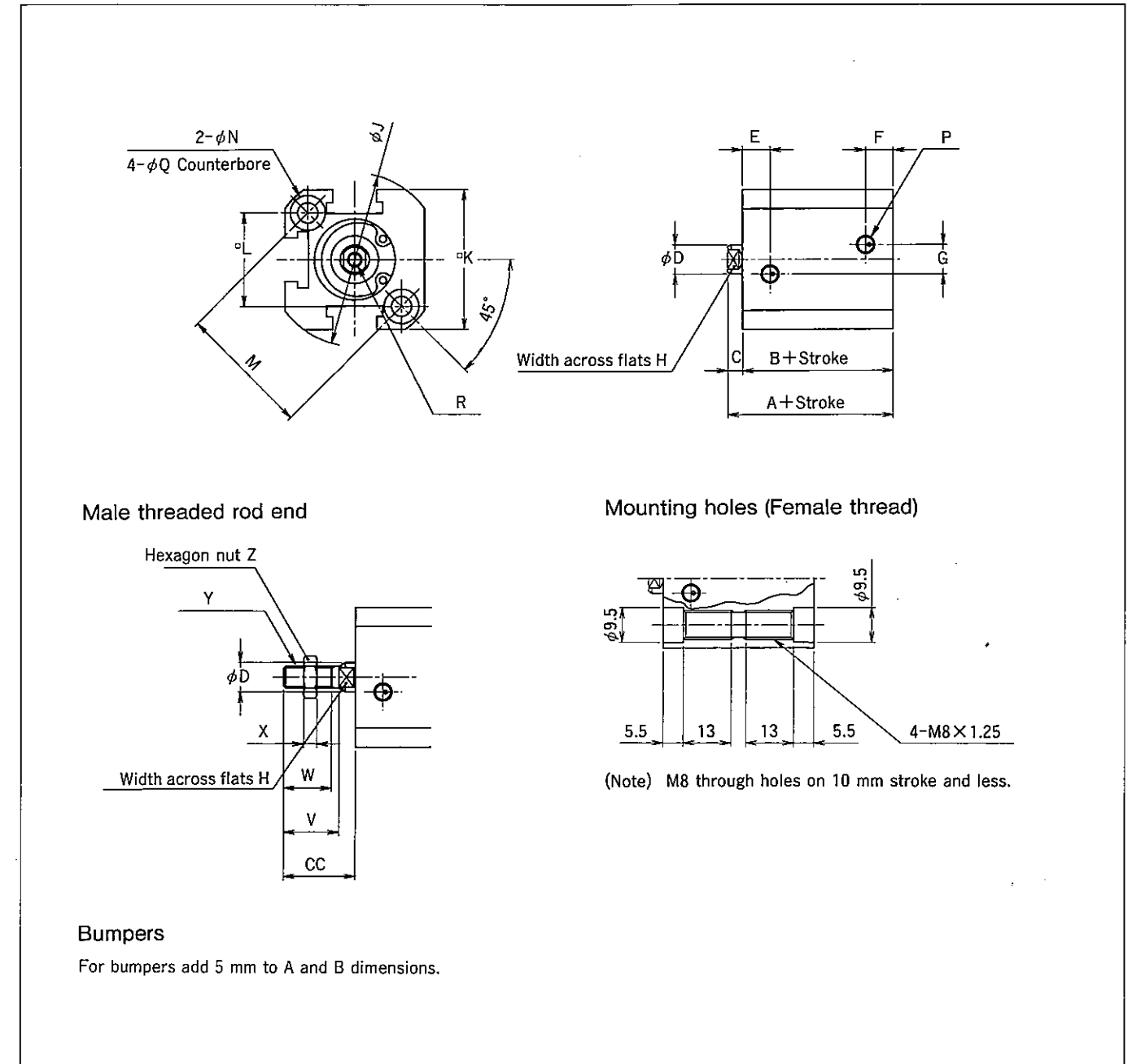
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet.
- Non-standard stroke: Longer than standard lengths available at increment of 5 mm. Within standard stroke range, special stroke length available with spacer on longer standard stroke.
- 5 mm stroke with magnet: It comes within same dimensions as 10 mm stroke length.

# FLAT CYLINDER/X series

## DIMENSIONS

Double Acting  $\phi 20, \phi 25, \phi 32/XO2$

(Unit:mm)



Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 20$	25 30	21 26	4	8	7.5	7.5	8	6	47	38	25.5	36	5.5	M5×0.8	9.5 depth 5.5
$\phi 25$	26.5 31.5	22.5 27.5	4	10	8	8	8	8	52	43	28	39.6	5.5	M5×0.8	9.5 depth 5.5
$\phi 32$	29 34	25 30	4	12	9.5	9.5	15	10	60	51	34	48	5.5	Rc(PT) 1/8	9.5 depth 5.5

Bore	R	CC	V	W	X	Y	Z
$\phi 20$	M4×0.7 depth 6	19.5	15	13	3.6	M6×1	M6×1
$\phi 25$	M5×0.8 depth 10	21	16	14	5	M8×1.25	M8×1.25
$\phi 32$	M6×1 depth 11	22.5	17	15	6	M10×1.25	M10×1.25

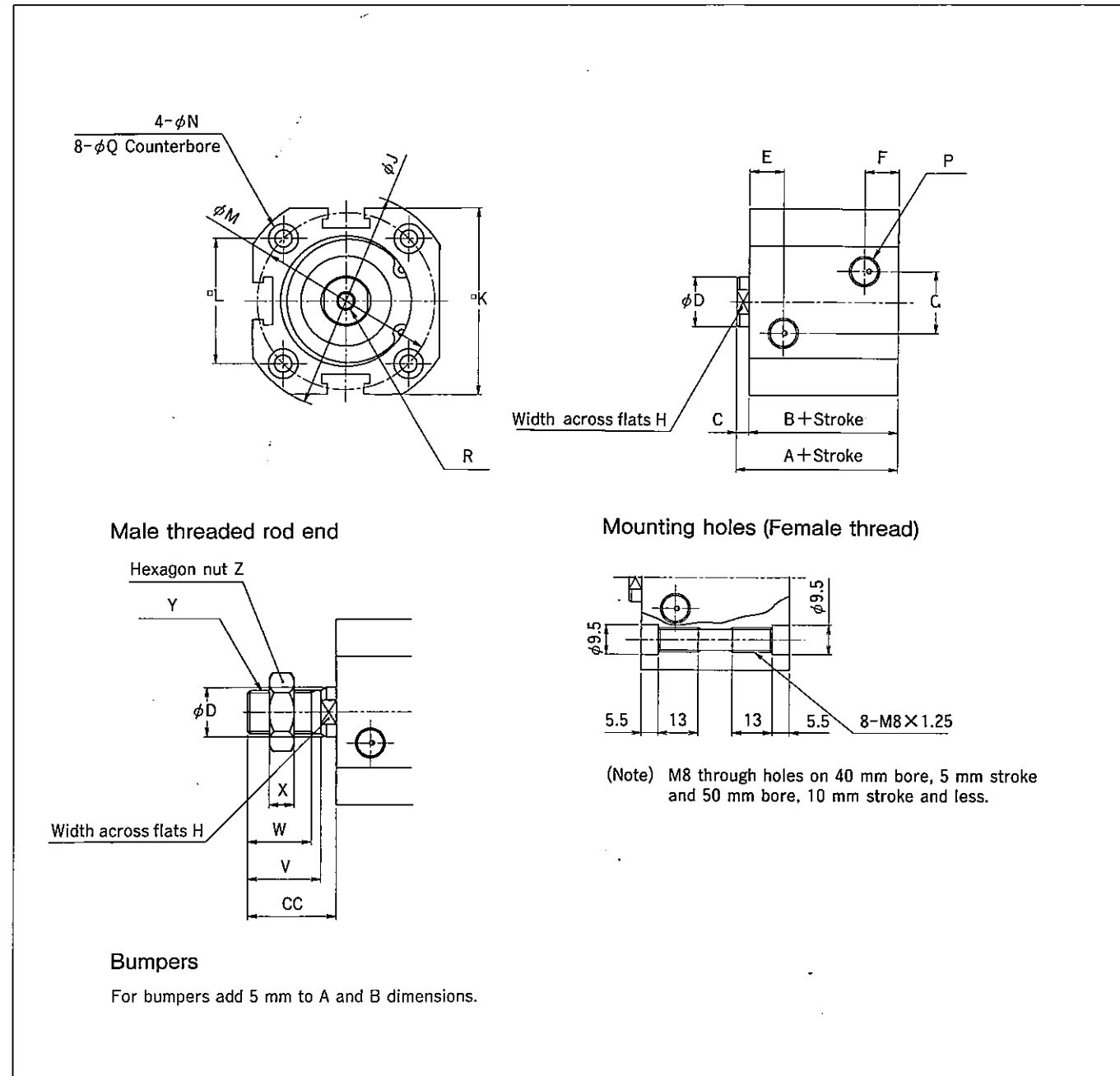
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet. Longer than 60 mm (55 mm stroke bumpers) stroke without magnet or 55 mm (50 mm stroke bumpers) stroke with magnet add 1 mm on A & B dimensions.
- Non-standard stroke: Longer than standard lengths available at increment of 5 mm. Within standard stroke range, special stroke length available with spacer on longer standard stroke.
- 5 mm stroke with magnet: It comes within same dimensions as 10 mm stroke length.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Double Acting  $\phi 40, \phi 50/XO2$

(Unit:mm)



Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 40$	$\frac{32}{37}$	$\frac{28}{33}$	4	16	11	11	20	14	70	60	40.3	57	5.5	Rc(PT) $\frac{1}{8}$	9.5 depth 5.5
$\phi 50$	$\frac{34}{39}$	$\frac{30}{35}$	4	20	11.5	11.5	20	17	80	70	47.4	67	6.6	Rc(PT) $\frac{1}{8}$	11 depth 6.5

Bore	R	CC	V	W	X	Y	Z
$\phi 40$	M6x1 depth 11	28.5	23.5	20.5	8	M14x1.5	M14x1.5
$\phi 50$	M8x1.25 depth 13	33.5	28.5	26	11	M18x1.5	M18x1.5

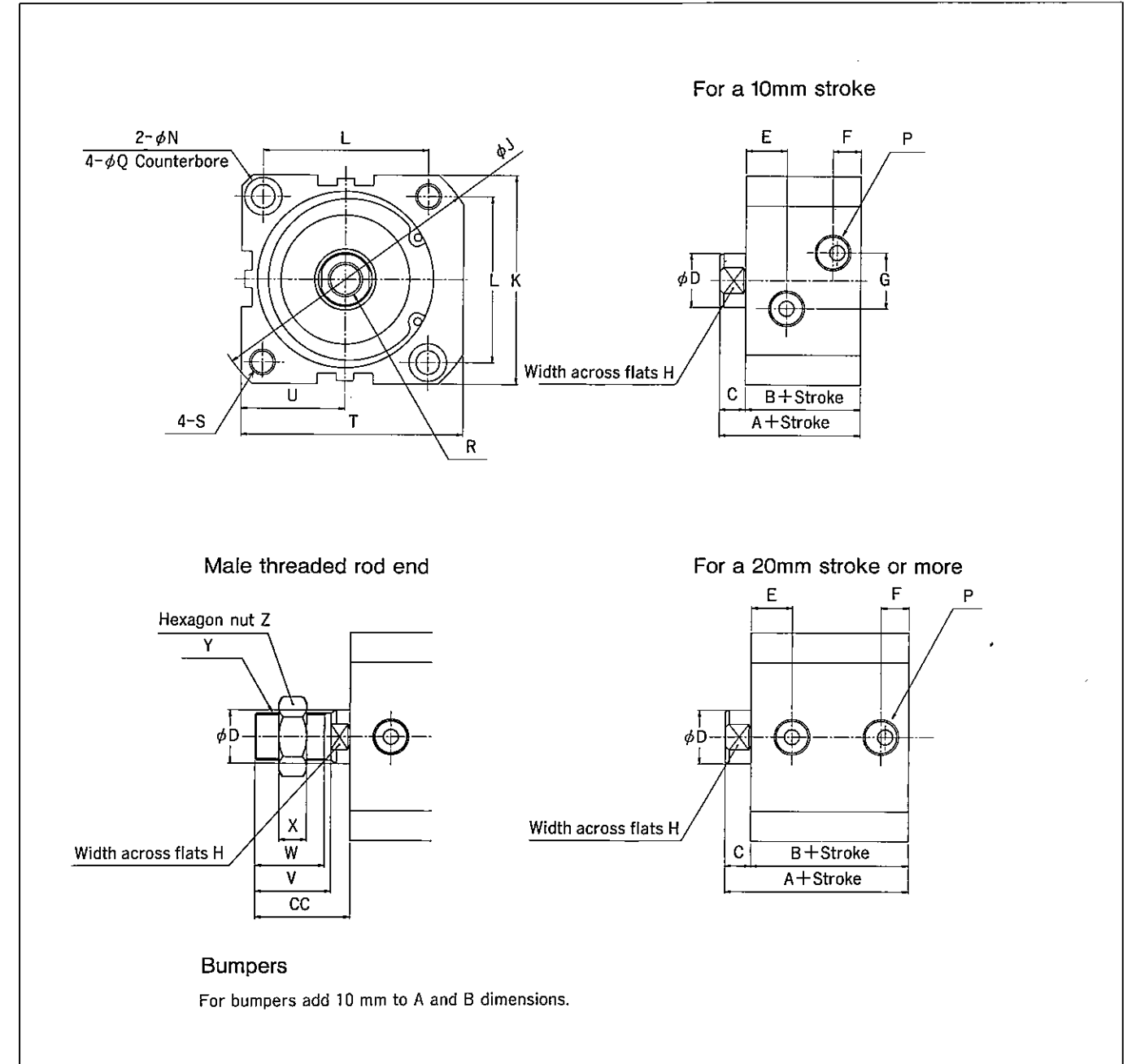
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet. Longer than 60 mm (55 mm stroke bumpers) stroke without magnet or 55 mm (50 mm stroke bumpers) stroke with magnet add 1 mm on A & B dimensions.
- Non-standard stroke: Longer than standard lengths available at increment of 5 mm. Within standard stroke range, special stroke length available with spacer on longer standard stroke.
- 5 mm stroke with magnet: It comes within same dimensions as 10 mm stroke length.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Double Acting  $\phi 63, \phi 80, \phi 100/XO2$

(Unit:mm)



Bore	A	B	C	D	E	F	G	H	J	K	L	N	P	Q
$\phi 63$	$\frac{46}{56}$	$\frac{36}{46}$	10	20	18	11	20	17	102	76	60	9	Rc(PT) $\frac{1}{4}$	14 depth 9
$\phi 80$	$\frac{55.5}{65.5}$	$\frac{43.5}{53.5}$	12	25	19	13	26	22	130	97	77	11	Rc(PT) $\frac{3}{8}$	17.5 depth 11
$\phi 100$	$\frac{67}{77}$	$\frac{53}{63}$	14	30	24.5	13	26	27	154	115	94	11	Rc(PT) $\frac{3}{8}$	17.5 depth 11

Bore	R	S	T	U	CC	V	W	X	Y	Z
$\phi 63$	M10x1.5 depth 15	M10x1.5 depth 15	83	38	36	28.5	26	11	M18x1.5	27
$\phi 80$	M16x2 depth 21	M12x1.75 depth 20	103.5	48.5	44.5	35.5	32.5	13	M22x1.5	32
$\phi 100$	M20x2.5 depth 27	M14x2 depth 20	122.5	57.5	46.5	35.5	32.5	16	M26x1.5	41

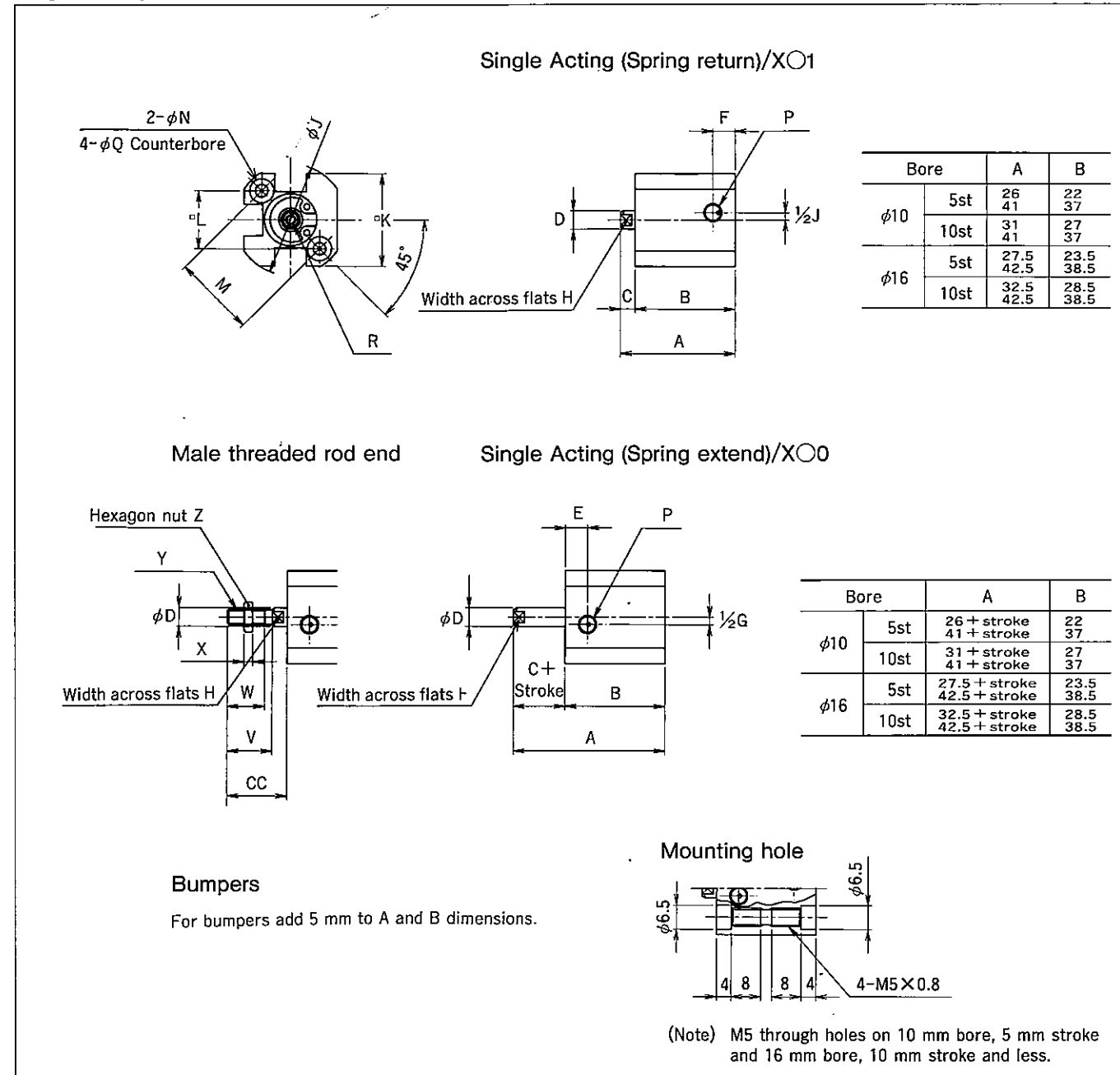
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet. Longer than 70 mm (60 mm stroke bumpers) stroke without magnet or 60 mm (50 mm stroke bumpers) stroke with magnet add 1 mm on A & B dimensions.
- Non-standard stroke: Longer than standard lengths available at increment of 10 mm. Within standard stroke range, special stroke length available with spacer on longer standard stroke.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Single Acting  $\phi 10$ ,  $\phi 16$

(Unit:mm)



Bore	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 10$	4	5	6	6	4	4	30	25	15.6	22	3.4	M5×0.8	6.5 depth 4
$\phi 16$	4	6	6.5	6.5	6	5	38	30	20	28.3	3.4	M5×0.8	6.5 depth 4

Bore	R	CC	V	W	X	Y	Z
$\phi 10$	M2.6×0.45 depth 5	16	12	10	2.4	M4×0.7	M4×0.7
$\phi 16$	M3×0.5 depth 5	16	12	10	2.4	M4×0.7	M4×0.7

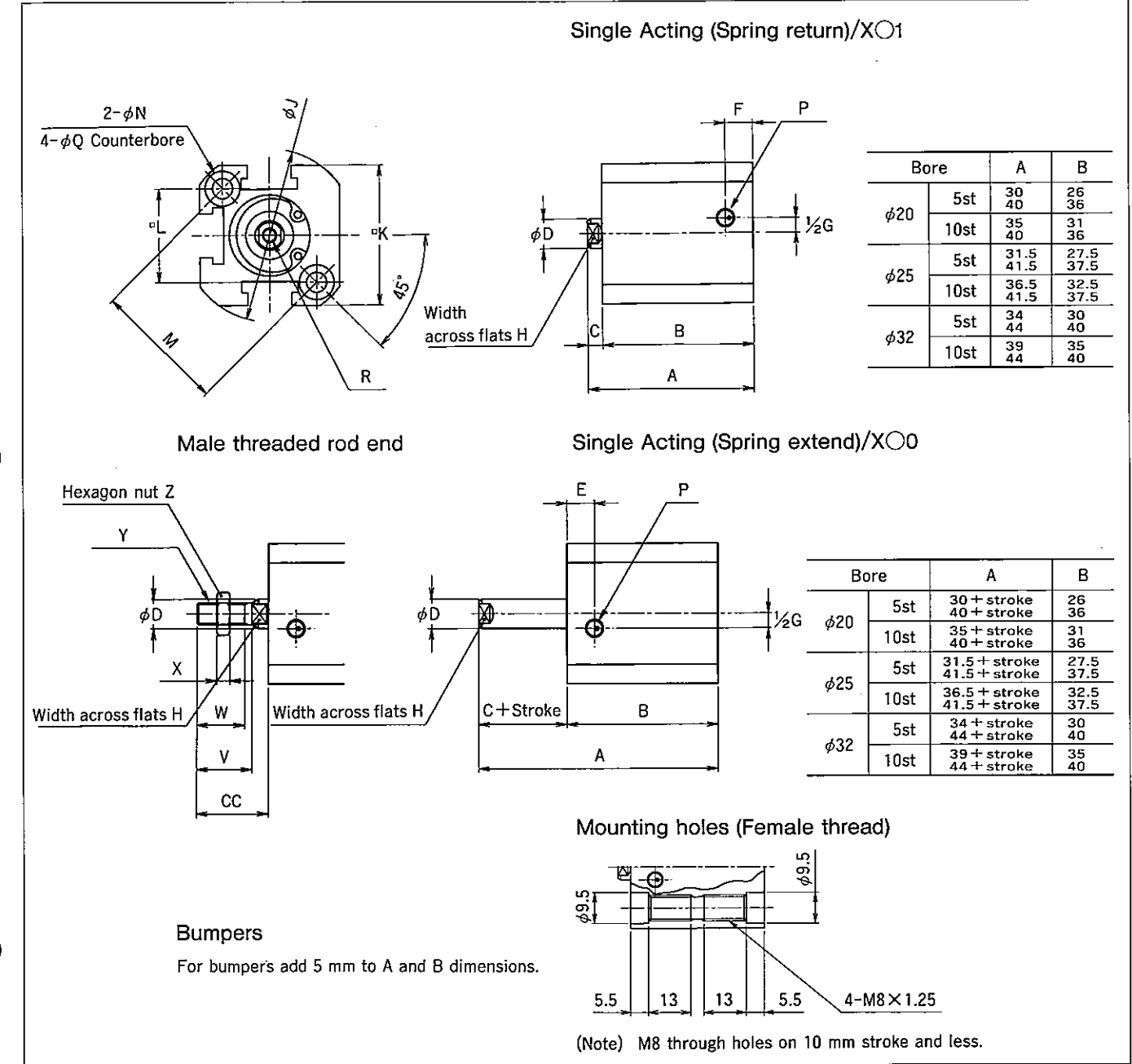
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet.
- Non-standard stroke: Ask for details for over standard stroke range. Within standard stroke range, special stroke length available with spacer on longer standard stroke.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Single Acting  $\phi 20$ ,  $\phi 25$ ,  $\phi 32$

(Unit:mm)



Bore	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 20$	4	8	7.5	7.5	8	6	47	38	25.5	36	5.5	M5×0.8	9.5 depth 5.5
$\phi 25$	4	10	8	8	8	8	52	43	28	39.6	5.5	M5×0.8	9.5 depth 5.5
$\phi 32$	4	12	9.5	9.5	15	10	60	51	34	48	5.5	Rc(PT)1/8	9.5 depth 5.5

Bore	R	CC	V	W	X	Y	Z
$\phi 20$	M4×0.7 depth 6	19.5	15	13	3.6	M6×1	M6×1
$\phi 25$	M5×0.8 depth 10	21	16	14	5	M8×1.25	M8×1.25
$\phi 32$	M6×1 depth 11	22.5	17	15	6	M10×1.25	M10×1.25

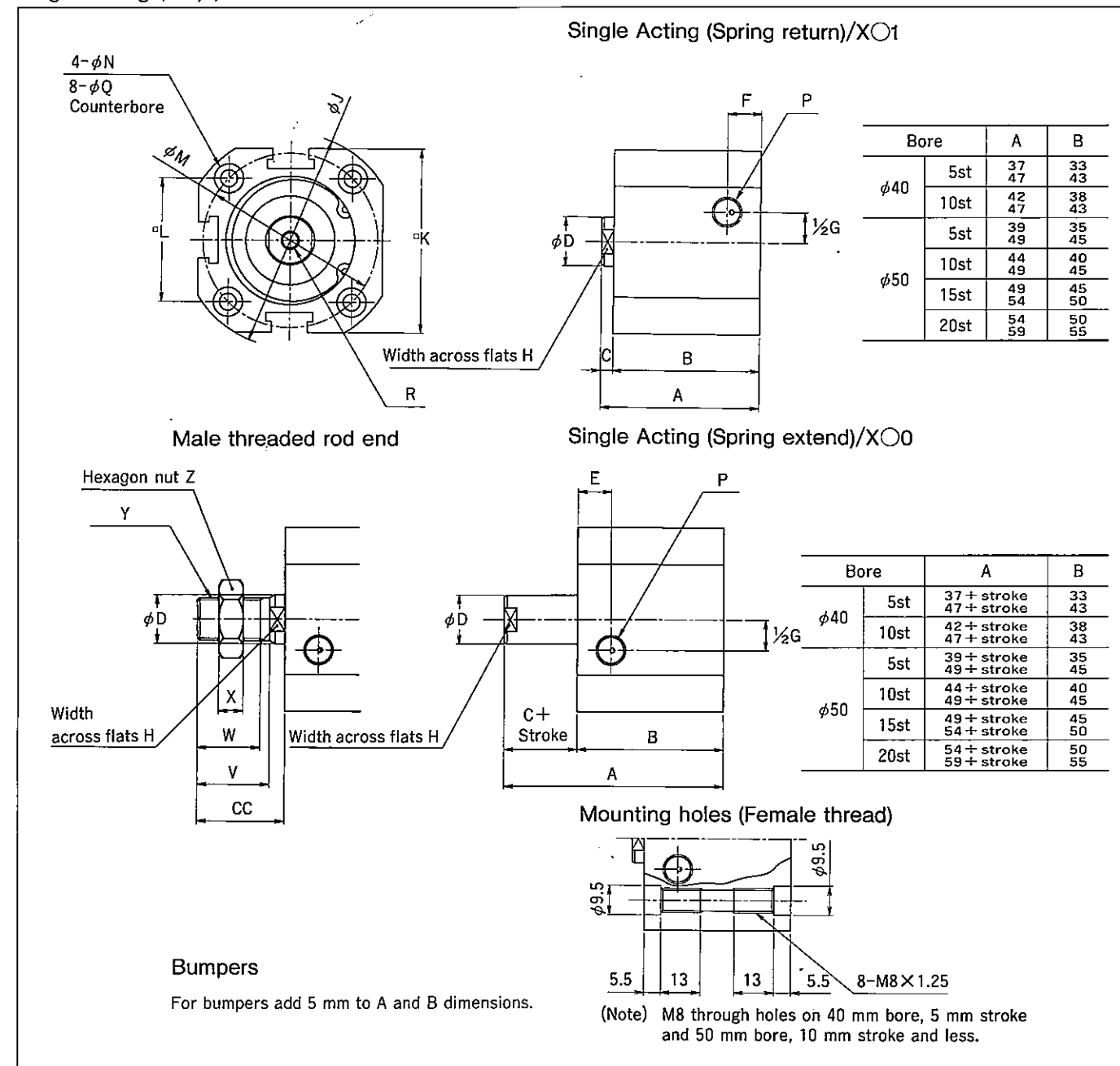
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet.
- Non-standard stroke: Ask for details for over standard stroke range. Within standard stroke range, special stroke length available with spacer on longer standard stroke.

# COMPACT AIR CYLINDER/X series

## DIMENSIONS

Single Acting  $\phi 40, \phi 50$

(Unit:mm)



Bore	C	D	E	F	G	H	J	K	L	M	N	P	Q
$\phi 40$	4	16	11	11	20	14	70	60	40.3	57	5.5	Rc(PT) $\frac{1}{8}$	9.5 depth 5.5
$\phi 50$	4	20	11.5	11.5	20	17	80	70	47.4	67	6.6	Rc(PT) $\frac{1}{8}$	11 depth 6.5

Bore	R	CC	V	W	X	Y	Z
$\phi 40$	M6 $\times$ 1 depth 11	28.5	23.5	20.5	8	M14 $\times$ 1.5	M14 $\times$ 1.5
$\phi 50$	M8 $\times$ 1.25 depth 13	33.5	28.5	26	11	M18 $\times$ 1.5	M14 $\times$ 1.5

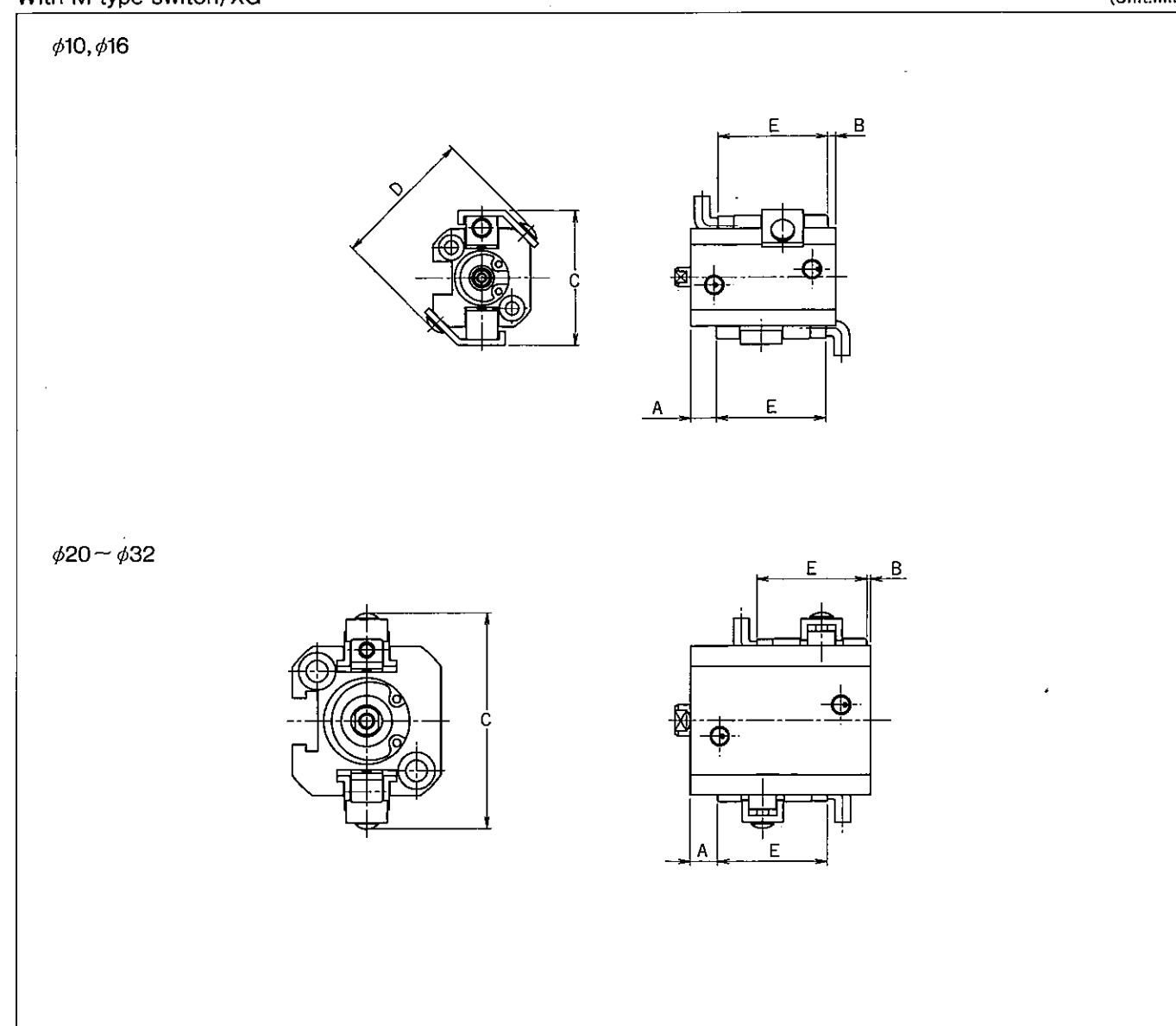
- A and B dimensions: Upper shows dimensions without magnet. Lower shows dimensions with magnet.
- Non-standard stroke: Ask for details for over standard stroke range. Within standard stroke range, special stroke length available with spacer on longer standard stroke.

# COMPACT AIR CYLINDER/X series

## SWITCH SET POSITION

With M type switch/XG

(Unit:mm)



Acting	Bore	With M type reed switch				With M type proximity switch			
		A	B	C	D	A	B	C	D
Double Acting	$\phi 10$	6.5	2	37	37	10	5.5	37	37
	$\phi 16$	6.5	4.5	40	45	10	8	40	45
Single Acting (Spring return)	$\phi 20$	7	1	54	—	10.5	4.5	54	—
	$\phi 25$	8.5	1.5	59	—	12	5	59	—
	$\phi 32$	9.5	2.5	67	—	12	6	67	—
Single Acting (Spring extend)	$\phi 10$	6.5	2	37	37	10	5.5	37	37
	$\phi 16$	6	5	40	45	9.5	8.5	40	45
	$\phi 20$	2	6	54	—	5.5	9.5	54	—
	$\phi 25$	2.5	7.5	59	—	6	11	59	—
	$\phi 32$	3.5	8.5	67	—	6	12	67	—

Switch	E
M type reed switch	28
M type proximity switch	26.5(24)

(Note) The parenthesized dimension is of the MT-※U type.

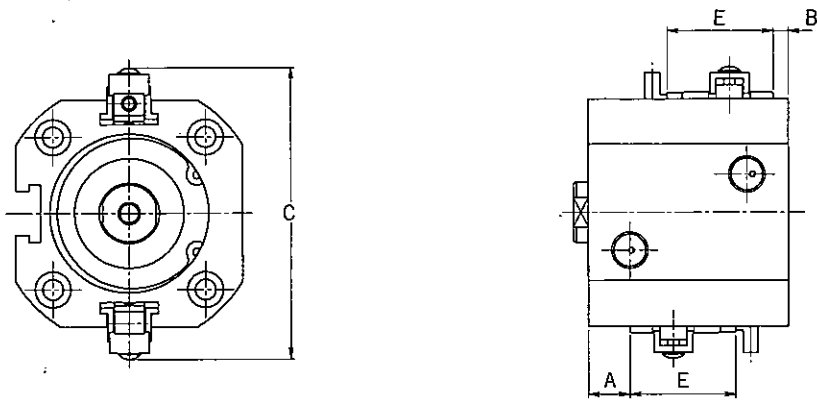
# COMPACT AIR CYLINDER/X series

## SWITCH SET POSITION

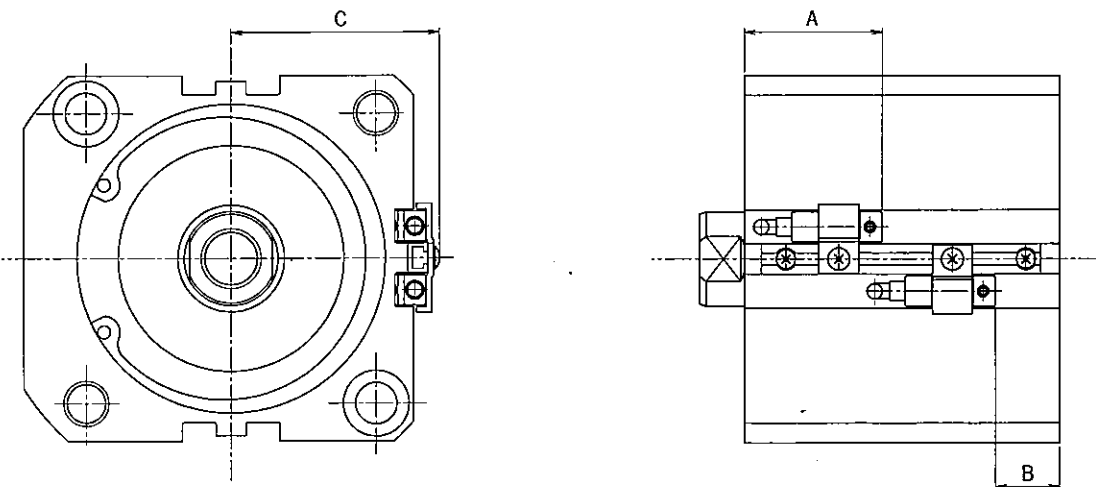
With M type switch/XG

(Unit:mm)

φ40, φ50



φ63~φ100



Acting	Bore	With M type reed switch			With M type proximity switch		
		A	B	C	A	B	C
Double Acting	φ40	11	4	76	14.5	7.5	76
	φ50	12.5	4.5	86	16	8	86
Single Acting (Spring return)	φ63	34	12	47.5	30.5	15.5	47.5
	φ80	36.5	17	56.5	33	20.5	56.5
	φ100	42	21	67	38.5	24.5	67
Single Acting (Spring extend)	φ40	5	10	76	9.5	12.5	76
	φ50	5.5	11.5	86	9	15	86

Switch	E
M type reed switch	28
M type proximity switch	26.5(24)

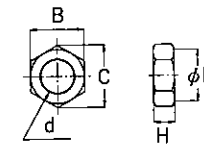
(Note) The parenthesized dimension is of the MT-※U type.

# COMPACT AIR CYLINDER/X series

## ACCESSORY

### ROD END NUT

(Unit:mm)



One nut supplied as standard.

Model No.	Applicable bore	d	H	B	C	D
Z10-RN	φ10, 16	M4×0.7	2.4	7	8.1	6.8
X20-RN	φ20	M6×1	3.6	10	11.5	9.8
J20-RN	φ25	M8×1.25	5	13	15	12.5
X32-RN	φ32	M10×1.25	6	17	19.6	16.5
J40-RN	φ40	M14×1.5	8	22	24.5	21
K50-RN	φ50, 63	M18×1.5	11	27	31.2	26
K80-RN	φ80	M22×1.5	13	32	37	31
K100-RN	φ100	M26×1.5	16	41	47.3	39

(Note) φ10 and φ16 can be used for Z series, φ25 and φ40 for J series, φ50~φ100 for K series in common.