

Air cylinder/ Double acting, single and double rod

Series C76

ø32, ø40

How to order

Double acting Single rod	C	D	76	K	E	32	100	C	J	A	XB6
Double acting Double rod	C	D	76	W	E	32	100	C	J	J	B
Single acting Spring return Spring extended	C	D	76	K	E	32	100	S		B	

Magnet
 Nil — None
 D — Built-in magnet

Double rod

Type
 Nil — Standard.
 K — Non-rotating
 (Rubber cushion
 only).

Mounting

Mark	Mounting
*E	Double end type
**F	Front nose type
**Y	Front nose in line type

* Double acting/Double rod type:
 Only double end type. (E).
 **Except for air cushion type.

Auto switch mounting type
 A — Rail mounted type
 B — Band mounted type

Other variations suffix

XB6	High operating temperature: -10~150°C (Non-magnetic)
XB7	Low operating temperature: -55~70°C available for bores 32 to 40mm
XB9	Low speed
XC6B	Stainless steel piston rod, piston rod nut and mounting nut
XC6A	Stainless steel piston rod and piston rod nut

Gaiter

Nil	Without gaiter
J	Nylon tarpaulin one side
K	Neoprene cloth one side
*JJ	Nylon tarpaulin both sides
*KK	Neoprene cloth both sides

* In case of double acting/double rod.

Action

S — Spring return
 T — Spring extended

Cushion

Nil — Rubber cushion (Standard)
 C — Air cushion (only "E" execution)

Parts No. of Mounting Bracket

Bore size (mm)		32	40
Mounting bracket	Flange, Foot (1pc.)	C76F32A	C76F40A
	Flange, Foot (2 pcs. with mounting nut 1 pc.)	C76F32B	C76F40B
	Trunnion	C76T32	C76T40
	Clevis	C76C32	C76C40
Accessories	Single knuckle joint	KJ10DA	KJ12DA
	Double knuckle joint	GKM10-20A	GKM12-24A
	Floating joint	JA25-10-150	JA40-12-175

Bore size (mm)	Standard stroke (mm)	Max. stroke (mm)
32	10, 25, 40, 50, 80, 100,	1000
40	125, 160, 200, 250**, 300*	

* Except single acting type.

** Except single acting type, (ø32)

Bore (mm)	Code number		Note
	Standard	Non-rotating	
32	C76-32PS	C76K-32PS	Every set includes: n°1 rod packing n°1 packing retaining washer n°1 retaining ring
40	C76-40PS	C76K-40PS	

Suitable also C76 series

Example of How to Order

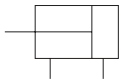
- In case of without auto switch, bore size: 32, stroke: 100, double acting/single rod and double end type.
 C76E32-100 1 pc. — Cylinder
- In case of without auto switch, bore size: 32, stroke: 50, double acting/double rod, double end type and rod and head foot mounting.
 C76WE32-50 1 pc. — Cylinder
 C76L32B 2 pcs. — Foot bracket
- In case of with auto switch (band mounted type, 2 pcs.), bore size: 40, stroke: 100, double acting/single rod, front nose in line type and flange mounting.
 CD76Y40-100-B 1 pc. — Cylinder
 C76F40A 1 pc. — Flange mounting
 D-C73L 2 pcs. — Auto switch
 BM2-040 2 pcs. — For auto switch mounting band
- In case of with auto switch (rail mounted type, 2 pcs.), bore size: 40, stroke: 50, single acting/spring return, front nose type and trunnion mounting.
 CD76F40-50S-A 1 pc. — Cylinder
 C76T40 1 pc. — Trunnion mounting
 D-A73L 2 pcs. — Auto switch
- Non-rotating : In case of without auto switch, bore size: 32, stroke: 100, double acting/single rod and double end type.
 C76KE32-100 1 pc. — Cylinder



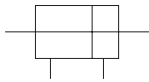
Symbol

Standard: double action

Rubber Cushion
Single rod



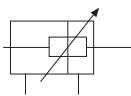
Rubber Cushion
Double rod



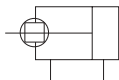
Air Cushion
Single rod



Air Cushion
Double rod



Non-rotating: Double acting/Single rod



Specifications

Bore size (mm)		32	40
Piston rod dia. (mm)		12	14
Piston rod thread		M10	M12
Ports		G1/8	G1/4
Action		Double acting/Single or Double Rod	
Fluid		Air	
Proof pressure		1.5MPa {15bar}	
Max operating pressure		1.0MPa {10bar}	
Min operating pressure		0.05MPa {0.5bar}	
Ambient and fluid temperature		-20÷80°C (Built-in magnet type: -10÷60°C)	
Cushion		Rubber cushion, Air cushion	
Lubrication		Not required. If necessary turbine oil #1 ISOVG32 is recommended	
Gaiter	Nylon tarpaulin	Max ambient temperature 60°C	
	Neoprene cloth	Max ambient temperature *110°C	
Piston speed		50÷1500mm/s	
Allowable kinetic energy (J)	Rubber cushion	0.65	1.2
	Air cushion	1.07	2.35
Non-rotating accuracy		±0.5°	±0.5°

* Maximum ambient temperature of gaiters only.

Weight Table (Standard, Non-rotating)

(g)

Bore size (mm)			32	40
Basic weight		Single rod	340 (375)	655 (725)
		Double rod	420	810
Additional weight for each 10mm of stroke		Single rod	16.8	26.6
		Double rod	25.6	96.5
Mounting bracket		C75F ○ A	110	200
		C75F ○ B	240	455
		C75T ○	15	25
		C85C ○	165	305
Accessories	Single knuckle joint	KJ ○ D	70	105
	Double knuckle joint	GKM ○ -○	100	165
	Floating joint	JA ○ -○ -○	70	160

() : In case of air cushion

Calculation Example: C76E32-50, C76F32A

Basic weight ——— 340 (Ø32)
 Additional weight ——— 16.8/10mm of stroke
 Cylinder stroke ——— 50mm
 Mounting bracket ——— 110
 340+16.8x50/10=424 424+110=534