

CTNC

CTNC HIGH PRESSURE HYDRAULIC SUPPORT CLAMP



FEATURES

- ★High Supporting Force: The gap between the plunger and the collet is expanded to improve its overall performance, resulting in a higher supporting force.
- ★High pressure: The range of working pressure is 7 ~ 35MPa.
- ★Universal mounting base: The CTNC series is compatible and interchangeable with Japanese branded cylinders that are currently on the market.

Hydraulic Pressure Rising Type:
The initial state of the piston rod is down. When the oil pressure is supplied, the piston rod rises and stops once contact is made with the workpiece at any position. During this period, the hydraulic pressure on the collet can grip the plunger with stronger power to generate the supporting force.

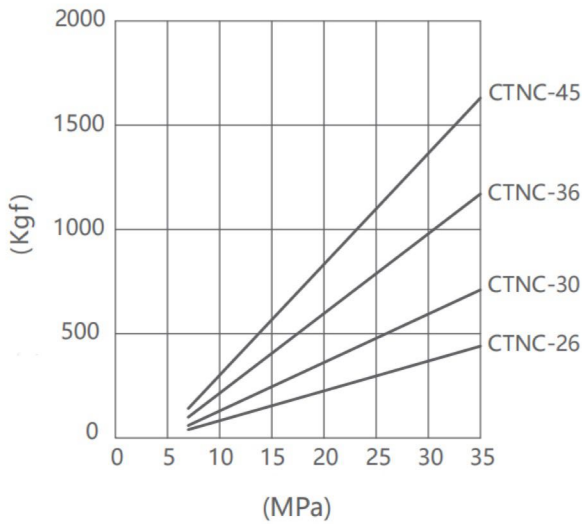
Spring Rising Type:
The initial state of the piston rod is up, and the workpiece is placed on the piston rod and dropped to a certain distance due to the weight of the workpiece. During this period, the hydraulic pressure on the collet can grip the plunger with stronger power to generate the supporting force.

ORDERING INDICATION

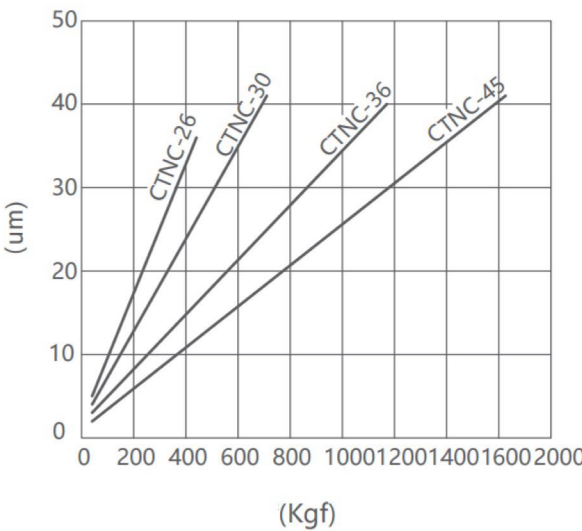
CTNC-30B

CTNC	Series	CTNC
30	Hydraulic cylinder outside diamater	M26*1.5 ,M30*1.5,M36*1.5,M45*1.5
B	Type	A:Spring rising type B:Hydraulic rising type

Clamping Force Curve



Load/Displacement Diagram



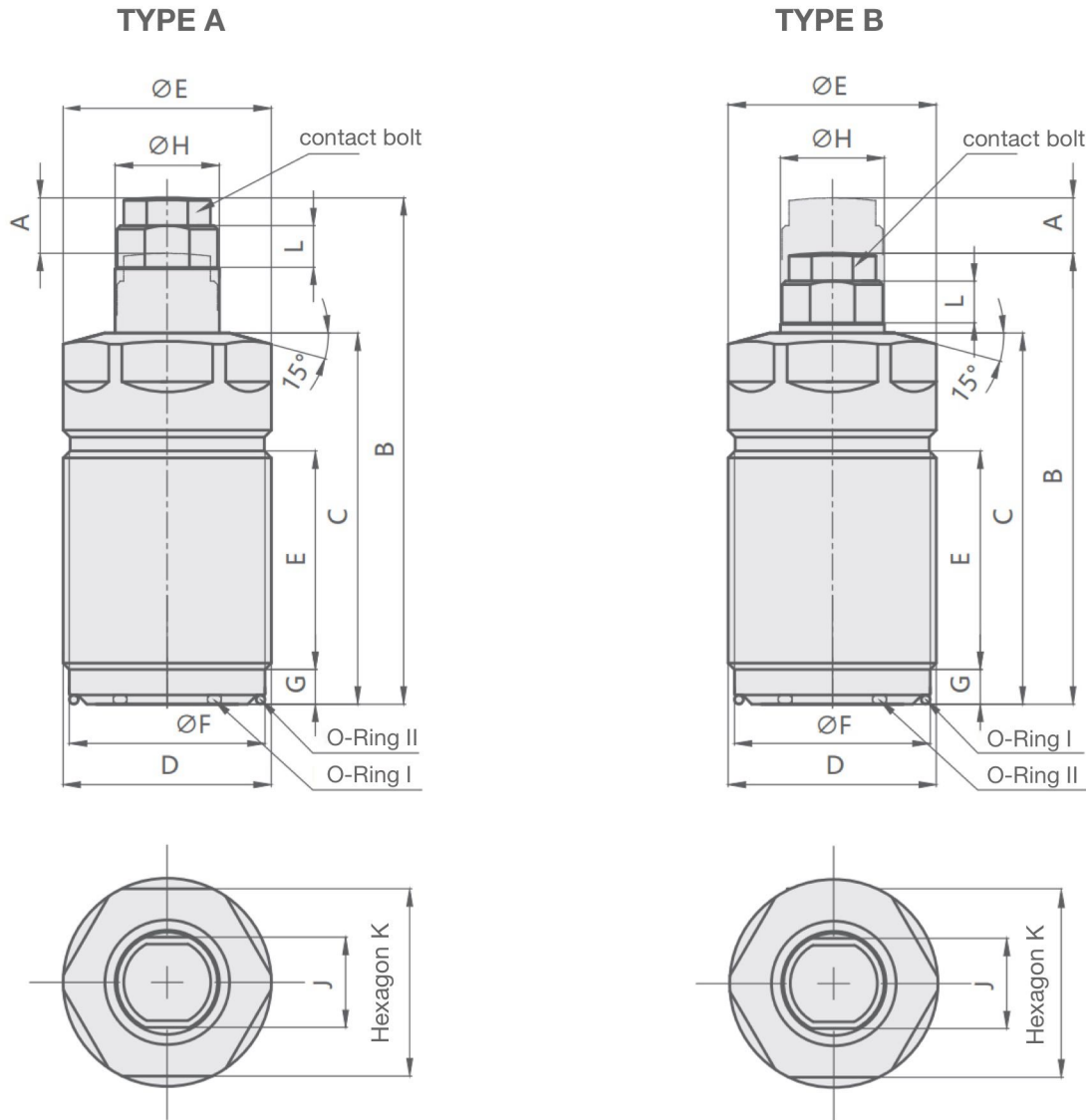
SPECIFICATIONS

MODEL	WORKPIECE SUPPORT FORCE WHEN OIL PRESSURE IS 35MPa(kgf)	OIL CYLINDER CAPACITY(cm³)	RISING SPRING FORCE(N)	STROKE FOR SUPPORT ROD(mm)	MAX. WORKING PRESSURE(MPa)	MIN. WORKING PRESSURE(MPa)	OPERATING TEMPERATURE(°C)	QUALITY(Kg)
CTNC-26	440	0.3	4 ~ 8	6.5	35	7	0 ~ 70°C	0.15
CTNC-30	710	0.6	5 ~ 11	8	35	7	0 ~ 70°C	0.2
CTNC-36	1170	1.1	6 ~ 14	10	35	7	0 ~ 70°C	0.3
CTNC-45	1630	1.8	8 ~ 22	12	35	7	0 ~ 70°C	0.75

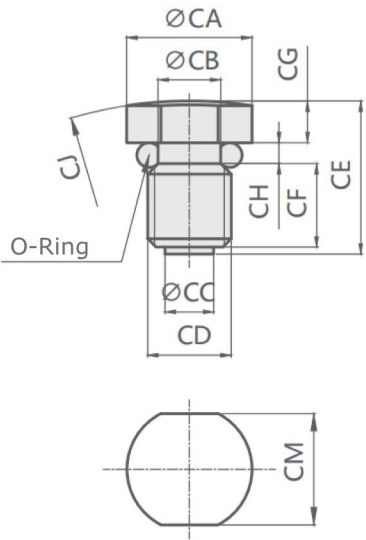
NOTE

- When the support clamp and cylinder clamp are used opposite from each other, pay attention to the selection, the supporting force should be more than 1.5 times of the cylinder clamping force.
- Please refer to the cap detailed drawing when the user makes the cap, and consider the weight of the cap and the spring force, otherwise there will be poor operation of the support cylinder.
- Keep the vent hole open to the atmosphere, which can effectively prevent cutting fluid and cutting dust from invading the inside of the support cylinder.
- If the piston rod rising speed is too fast, it will cause the phenomenon of rebound when the piston rod contacts the workpiece, and clamp at the rebound position, which will cause the gap or impact between the piston rod and the workpiece, leading to the damage of the internal parts. Please adjust the rising speed of the piston rod through one-way flow control valve so that the rising action time is more than 0.5-1 second, and confirm that there is no gap and impact between the piston rod and workpiece before putting into use.

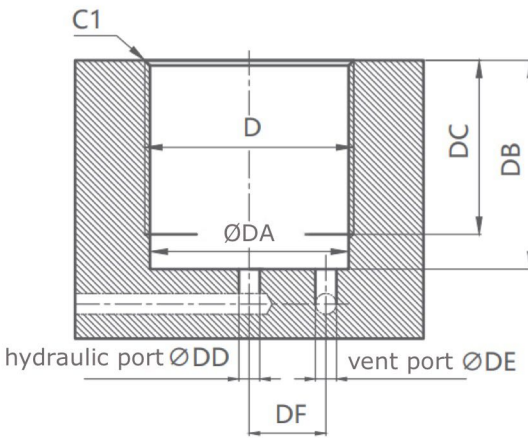
Outline Dimensions



Contact bolt design dimensions



Machining dimensions for mounting



External Dimensions Table

Unit:mm

Model		CTNC-26	CTNC-30	CTNC-36	CTNC-45
A	stroke	6.5	8	10	12
B	Type A	66.5	73	86.5	100
	Type B	60	65	76.5	88
C		48.5	53.5	64.5	71.5
D		M26×1.5	M30×1.5	M36×1.5	M45×1.5
E		27.5	31.5	51.2	55.2
F		24.2	28.2	34.2	43.2
G		5	5	5	6
H		12	15	18	22
J		10	13	14	19
K		24	27	32	41
L		6	6	6.5	9
CA		11.5	12.5	12.5	16.5
CB		6	7.8	7.8	9.7
CC		5	6	6	7.4
CD		M8	M10	M10	M12
CF		7.1	7.1	7.1	8
CE		14	14	14	18
CG		4	4	4	6
CH		1.9	1.9	1.9	3
CJ		SR30	SR50	SR50	SR80
CM		10	11	11	14
DA		24.5	28.5	34.5	43.5
DB		13 ~ 32	13 ~ 36	15 ~ 55	18 ~ 60
DC		DB-4	DB-4	DB-4	DB-5
DD		2 ~ 6	2 ~ 6	2 ~ 6	2 ~ 8
DE		2	22	3	3
DF		9.5	11	13	15
O-ring I		AS568-020(90°)	AS568-022(90°)	AS568-026(90°)	AS568-030(90°)
O-ring II		AS568-013(90°)	AS568-014(90°)	AS568-015(90°)	AS568-017(90°)
O-ring III		S6	S8	S8	S10