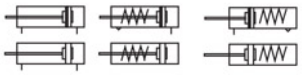
STNC®

Compact Cylinder

ϕ 12– ϕ 100

Characteristic

Axial small size, compact structure, beautiful appearance, can be installed directly



Ordering Code

C [D] Q 2 [B] [20] — [50] [D] [C]

- D: magnet; blank: without magnet
- Mounting: B-Through; A-Both ends female hread
- Bore:
  - 12– ϕ 12mm
  - 16– ϕ 16mm
  - 20– ϕ 20mm
  - 25– ϕ 25mm
  - 32– ϕ 32mm
  - 40– ϕ 40mm
  - 50– ϕ 50mm
  - 63– ϕ 63mm
  - 80– ϕ 80mm
  - 100– ϕ 100mm
- Stroke
- Acting: D: Double acting; S: Single acting(Spring Draw); T: Single acting(Spring Extrude)
- Banel: Choose by nourself; No Mark: Female thread; C-Cushion; M-Rod end male thread
  * Single acting Bore can't have Cushion

* Biggest bore diameter for Single acting cylinder: Φ50mm

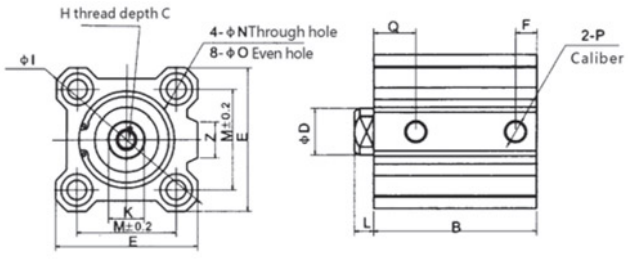
Standard Specification

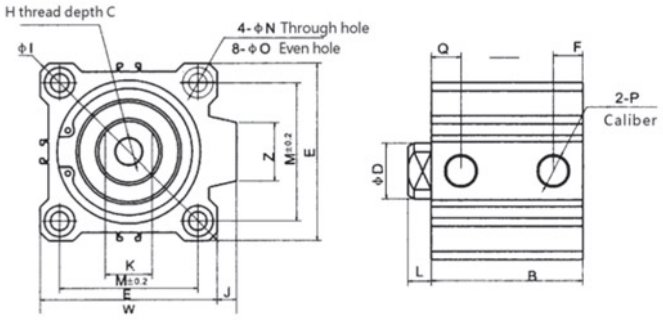
Bore (mm)	12	16	20	25	32	40	50	63	80	100
Action	Double acting, Single acting : Spring Draw								Spring Extrude	
Applicable medium	Air									
Highest pressure	0.05~1.0 Mpa									
Proof pressure	1.5 Mpa									
Environment and fluid temperature	–10~60°C									
Speed Range	50~500mm/s									
Cushion Type	Mounted Cushion									
Mounting	Through hole(Standard), Both ends female hread(Choose by nomself)									
Pipe Size	M5x0.8				G1/8		G1/4		G3/8	

Stroke

Bore (mm)	Standard Stroke	
	Double Action	Single Action
12/16	5,10,15,20,25,30	5,10
20/25	5,10,15,20,25,30,35,40,45,50	5,10
32/40	5,10,15,20,25,30,35,40,45,50, 60,70,75,80,90,100	5,10
50	5,10,15,20,25,30,35,40,45,50, 60,70,75,80,90,100	10~20
63/80/100	5,10,15,20,25,30,35,40,45,50, 60,70,75,80,90,100	–

Figure Dimension





Double Act Cylinder Demension

Type	Note 1)Stroke(mm)	B	ϕD	E	F	H	C	ϕI	J	K	L	M	ϕN	ϕO	P	Q	W	Z
CQ2B12-□D	5-30	17+st	6	25	5	M3X0.5	6	32	–	5	3.5	15.5	3.5	6.5depth3.5	M5X0.8	7.5	–	–
CQ2B16-□D	5-30	18.5+st	8	29	5.5	M4X0.7	8	38	–	5	3.5	20	3.5	6.5depth3.5	M5X0.8	8	–	10
CQ2B20-□D	5-50	19.5+st	10	36	5.5	M5X0.8	7	47	–	6	4.5	25.5	5.5	9depth7	M5X0.8	9	–	10
CQ2B25-□D	5-50	22.5+st	12	40	5.5	M6X1.0	12	52	–	8	5	28	5.5	9depth7	M5X0.8	11	–	10
CQ2B32-□D	5 / 10-50	23+st	16	45	5.5 / 7.5	M8X1.25	13	60	4.5	10	7	34	5.5	9depth7	M5X0.8 / 1/8	11.5 / 10.5	49.5	18
CQ2B40-□D	5-50	29.5+st	16	52	8	M8X1.25	13	69	5	14	7	40	5.5	9depth7	1/8	11	57	18
CQ2B50-□D	10-50	30.5+st	20	64	10.5	M10X1.5	15	86	7	17	8	50	6.6	11depth8	1/4	10.5	71	22
CQ2B63-□D	10-50	36+st	20	77	10.5	M10X1.5	15	103	7	17	8	60	9	14depth10.5	1/4	15	84	22
CQ2B80-□D	10-50	43.5+st	25	98	12.5	M16X2.0	21	132	6	22	10	77	11	17.5depth13.5	3/8	16	104	26
CQ2B100-□D	10-50	53+st	32	117	13	M20X2.5	27	156	6.5	27	12	94	11	17.5depth13.5	3/8	23	123.5	26

Note 2) Long Stroke

Type	Stroke(mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

Note 1) Standard Stroke is per 5mm apart

Note 2) The strokes between 55mm and 100mm, please add the plate

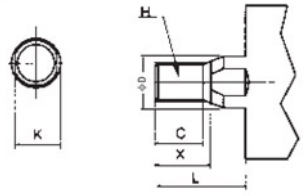
Note 3) If no special demands through hole and both ends temale thread have the same size.

Single Act Cylinder Demension

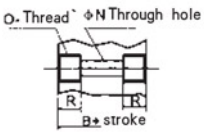
Type	B			ϕD	E	B		H	C	ϕI	J	K	L	M	ϕN	ϕO	P			Q		W	Z
	5st	10st	20st			5st	10st										5st	10st	20st	5st	10st		
CQ2B12-□D	22	27	–	6	25	5	5	M3X0.5	6	32	–	5	3.5	15.5	3.5	6.5depth3.5	M5X0.8		–	7.5	7.5	–	–
CQ2B16-□D	23.5	28.5	–	6	29	5.5	5.5	M4X0.7	8	38	–	5	3.5	20	3.5	6.5depth3.5	M5X0.8		–	8	8	–	10
CQ2B20-□D	24.5	29.5	–	8	36	5.5	5.5	M5X0.8	7	47	–	6	4.5	25.5	5.5	9depth7	M5X0.8		–	9	9	–	10
CQ2B25-□D	27.5	32.5	–	10	40	5.5	5.5	M6X1.0	12	52	–	8	5	28	5.5	9depth7	M5X0.8		–	11	11	–	10
CQ2B32-□D	28	33	–	12	45	5.5	5.5	M8X1.25	13	60	4.5	10	7	34	5.5	9depth7	M5X0.8	1/8	–	11.5	11.5	49.5	18
CQ2B40-□D	34.5	39.5	–	16	52	8	8	M8X1.25	13	69	5	14	7	40	5.5	9depth7	1/8		–	11	11	57	18
CQ2B50-□D	–	40.5	50.5	20	64	10.5	10.5	M10X1.5	15	86	7	17	8	50	6.6	11depth8	–	1/4		10.5	10.5	71	22

st=Stroke

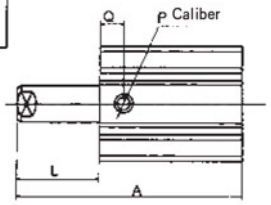
Piston rod thread



Double fermale installing/CQ2A



Single acting spring push out 12- 50



Piston rod male thread

Bore (mm)	C	X	ϕD	H	L	K
12	9	10.5	6	M5X0.8	14	5
16	10	12	8	M6X1.0	15.5	5
20	12	14	10	M8X1.25	18.5	6
25	15	17.5	12	M10X1.5	22.5	8
32	20.5	23.5	16	M14X1.5	28.5	10
40	20.5	23.5	16	M14X1.5	28.5	14
50	26	28.5	20	M18X1.5	33.5	17
63	26	28.5	20	M18X1.5	33.5	17
80	32.5	35.5	25	M22X1.5	43.5	22
100	32.5	35.5	32	M26X1.5	43.5	27

Note 3) Both ends female thread

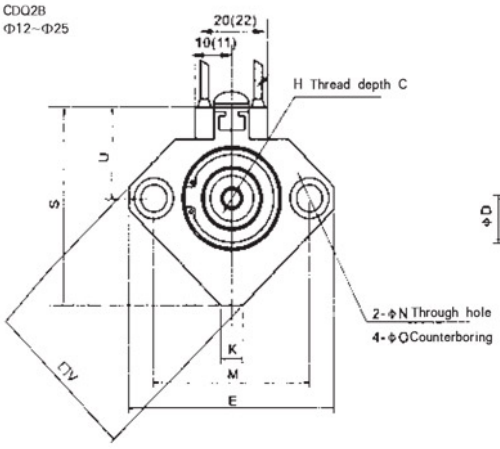
Bore (mm)	O	R
12	M4X0.7	7
16	M4X0.7	7
20	M6X1.0	10
25	M6X1.0	10
32	M6X1.0	10
40	M6X1.0	10
50	M8X1.25	14
63	M10X1.5	18
80	M12X1.75	22
100	M12X1.75	22

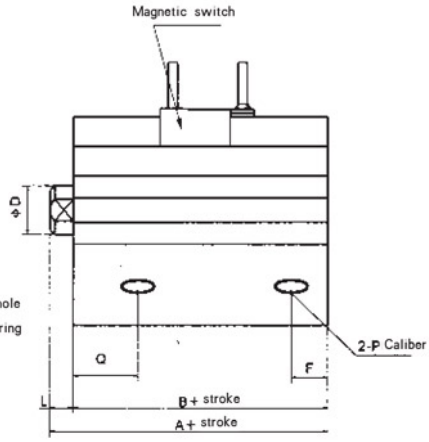
Double acting cylinder demension

Bore	A			L		
(mm)	5st	10st	20st	5st	10st	20st
12	30.5	40.5	–	8.5	13.5	–
16	32	42	–	8.5	13.5	–
20	34	44	–	9.5	14.5	–
25	37.5	47.5	–	10	15	–
32	40	50	–	12	17	–
40	46.5	56.5	–	12	17	–
50	–	58.5	78.5	–	18	28

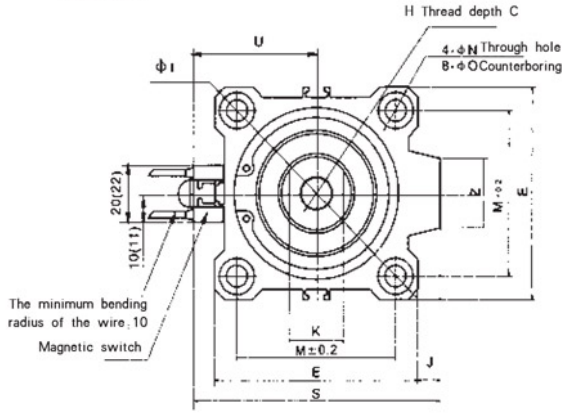
Compact Cylinder

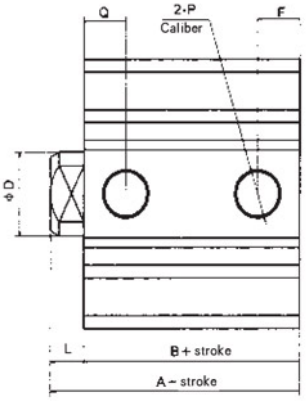
CDQ2B
Φ12~Φ25





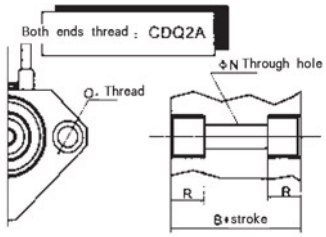
Φ32~Φ100





*the above dimensions are just for D-A7,D-8A magnet switches.

*( ) : the dimensions in the bracket is D-F79L,D-J79L magnet switch



Note 3) Both ends female hread

Bore (mm)	O	R
12	M4X0.7	7
16	M4X0.7	7
20	M6X1.0	10
25	M6X1.0	10
32	M6X1.0	10
40	M6X1.0	10
50	M8X1.25	14
63	M10X1.5	18
80	M12X1.75	22
100	M12X1.75	22

Note 2) Long Stroke

Type	Stroke(mm)	B	F	P	Q
32	75,100	33	7.5	1/8	10.5
40	75,100	39.5	8	1/8	11
50	75,100	40.5	10.5	1/4	10.5
63	75,100	46	10.5	1/4	15
80	75,100	53.5	12.5	3/8	16
100	75,100	63	13	3/8	23

Note 1) Standard Stroke is per 5mm apart

Note 2) The strokes between 55mm and 100mm, please add the plate

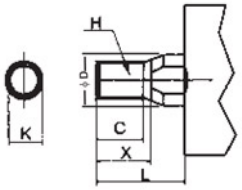
Note 3) If no special demands through hole and both ends female thread have the same size.

Double acting cylinder demension

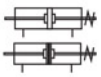
Type	Note 1)Stroke(mm)	A	B	φD	E	F	H	C	φI	J	K	L	M	φN	φO	P	Q	S	U	V	Z
CDQ2B12	5-30	31.5	28	6	25	5	M3X0.5	6	32	–	5	3.5	15.5	3.5	6.5depth3.5	M5X0.8	11	35.5	19.5	25	–
CDQ2B16	5-30	34	30.5	8	29	5.5	M4X0.7	8	38	–	5	3.5	20	3.5	6.5depth3.5	M5X0.8	10	41.5	22.5	29	–
CDQ2B20	5-50	36	31.5	10	36	5.5	M5X0.8	7	47	–	6	4.5	25.5	5.5	9depth7	M5X0.8	10.5	48	24.5	36	–
CDQ2B25	5-50	37.5	32.5	12	40	5.5	M6X1.0	12	52	–	8	5	28	5.5	9depth7	M5X0.8	11	53.5	27.5	40	–
CDQ2B32	5-50	40	33	16	45		M8X1.25	13	60	4.5	10	7	34	5.5	9depth7	1/8	10.5	58.5	31.5	–	18
CDQ2B40	5-50	46.5	39.5	16	52	8	M8X1.25	13	69	5	14	7	40	5.5	9depth7	1/8	11	66	35	–	18
CDQ2B50	10-50	48.5	40.5	20	64	10.5	M10X1.5	15	86	7	17	8	50	6.6	11depth8	1/4	10.5	80	41	–	22
CDQ2B63	10-50	54	46	20	77	10.5	M10X1.5	15	103	7	17	8	60	9	14depth10.5	1/4	15	93	47.5	–	22
CDQ2B80	10-50	63.5	53.5	25	98	12.5	M16X2.0	21	132	6	22	10	77	11	17.5depth13.5	3/8	16	112.5	57.5	–	26
CDQ2B100	10-50	75	63	32	117	13	M20X2.5	27	156	6.5	27	12	94	11	17.5depth13.5	3/8	23	132.5	67.5	–	26

Rod end male thread

Bore (mm)	C	X	φD	H	L	K
12	9	10.5	6	M5X0.8	14	5
16	10	12	8	M6X1	15.5	5
20	12	14	10	M8X1.25	18.5	6
25	15	17.5	12	M10X1.25	22.5	8
32	20.5	23.5	16	M14X1.5	28.5	10
40	20.5	23.5	16	M14X1.5	28.5	14
50	26	28.5	20	M18X1.5	33.5	17
63	26	28.5	20	M18X1.5	33.5	17
80	32.5	35.5	25	M22X1.5	43.5	22
100	32.5	35.5	32	M26X1.5	43.5	27



CQ2B Series



Adjustable stroke

Ordering Code

CQ2 [B] [20] — [50] [D] — XC9

- B: Mounting B-Through
- 20: Bore
- 50: Stroke
- D: Double acting

Standard Specification

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Applicable medium	Air									
Action	Double acting									
Proof pressure	1.5MPa{15.3kgf/cm²}									
Highest pressure	1.0MPa{10.2kgf/cm²}									
	5 ~ 60 ℃									
Rod end thread	Female thread (Standard), Male thread(Choose by nomself)									
Cushion	No									
Stroke tolerance	+1.0, 0									
*Lubrication	No need									
Mounting	Through hole(Standard), Both ends female hread(Choose by nomself)									
Pipe Size	M5×0.8				1/8		1/4		3/8	

* If lubricating please use ISO VG032

Stroke/Magnetic Switch

Bore (mm)	Standard Stroke	
	Double Acting	adjustable stroke
12	5,10,15, 20,25,30	5,10
16		
20	5,10,15,20,25, 30,35,40,45,50	
25		
32	5,10,15,20,25, 30,35,40,45,50, 75,100	
40		
50	10,15,20, 25,30,35, 40,45,50, 75,100	
63		
80		
100		

Note 1) Sensor switch specification the same with sensor switch serive

CQ2WB Series

Double rod

Ordering Code

CQ2W [B] [20] — [50] [D]

- B: Mounting B-Through
- 20: Bore
- 50: Stroke
- D: Double acting

Standard Specification

Bore (mm)	12	16	20	25	32	40	50	63	80	100
Applicable medium	Air									
Action	Double acting									
Proof pressure	1.5MPa{15.3kgf/cm²}									
Highest pressure	1.0MPa{10.2kgf/cm²}									
	5 ~ 60 ℃									
Rod end thread	Female thread (Standard), Male thread(Choose by nomself)									
Cushion	No									
Stroke tolerance	+1.0, 0									
*Lubrication	No need									
Mounting	Through hole(Standard), Both ends female hread(Choose by nomself)									
Pipe Size	M5×0.8				1/8		1/4		3/8	

* If lubricating please use ISO VG032

Stroke/Magnetic Switch

Bore (mm)	Standard Stroke
	Double Acting
12	5,10,15, 20,25,30
16	
20	5,10,15,20,25, 30,35,40,45,50
25	
32	5,10,15,20,25, 30,35,40,45,50, 75,100
40	
50	10,15,20, 25,30,35, 40,45,50, 75,100
63	
80	
100	

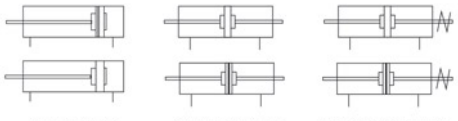
Note 1) Sensor switch specification the same with sensor switch serive

CQ2 series thin cylinder (Big bore)

Characteristic

Axial small size, compact structure, beautiful appearance, can be installed directly

Graphics Sign



Double acting type CQ2 | Axis double acting type CQ2D | Adjustable double acting type CQ2J

Ordering Code

C [D] Q2 [D] B [125] — [100] — [15] — C [M]

- D: Magnet — Blank: without magnet; D: magnet
- D: Series — Blank: Single rod; D: double rod; J: adjustable stroke
- B: The through hole and both ends of the screw all can install.
- 125: Bore — 125: φ125mm; 140: φ140mm; 160: φ160mm
- 100: Stroke
- 15: Adjust stroke — 10: 10mm; 20: 20mm; 30: 30mm; 40: 40mm; 50: 50mm; 75: 75mm; 100: 100mm
- C: Rubber buffer
- M: Mounting — Blank: through; M: both ends female hread

Standard Specification

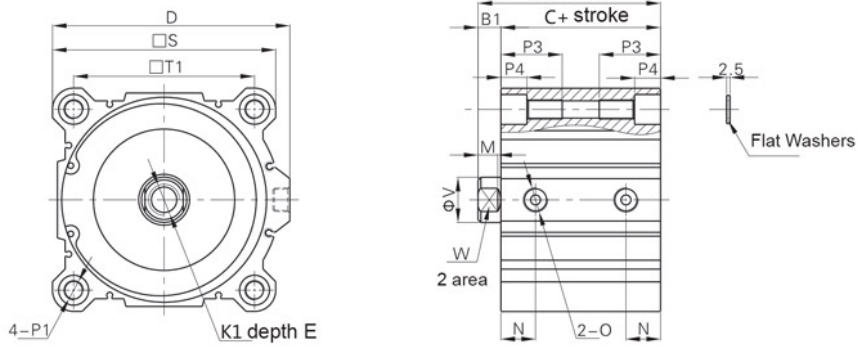
Bore (mm)	125	140	160
Fluid	Air		
Action type	Double action		
Withstanding pressure	1.5MPa		
Proof pressure	0.05 ~ 1.0MPa		
Temperature range	−10 ~ 60℃		
Speed range	Internal thread (standard), the external thread (optional)		
Cylinder Material	Aluminum		
Installation	through hole (standard) within two ends of thread (optional)		
Port size	G3/8		

Standard Stroke

Bore (mm)	Standard Stroke
125	10,20,30,40,50,75,100,125 150,175,200,250,300
140	
160	

Figure Dimension (CQ2)

Φ125-Φ160

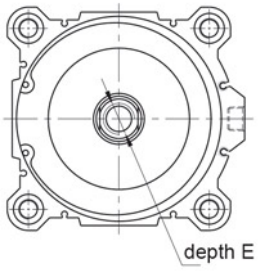


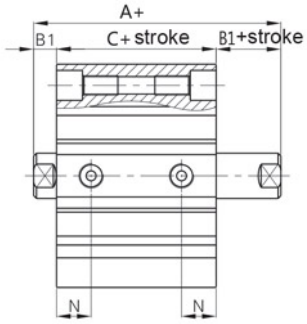
Bore	A	B1	C	D	E		K1	M	N	O	S	P1	P3	P4	T1	V	W
					St≤10	St≤10											
125	99	16	83	153	22.5	30	M22X2.5	12	24.5	G3/8	142	Double side:Ø21.2 cog:M14×2.0 through hole:Ø12.3	43.4	18.4	114	32	27
140	99	16	83	168	22.5	30	M22X2.5	12	24.5	G3/8	158	Double side:Ø21.2 cog:M14×2.0 through hole:Ø12.3	43.4	18.4	128	32	27
160	108	17	91	188	26.5	30	M24X3.0	14	27.5	G3/8	178	Double side:Ø24.2 cog:M16×2.0 through hole:Ø14.3	49.2	21.2	144	40	36

It must install plane gasket when you use through hole to install the compact cylinder

■ Figure Dimension (CQ2D)

Φ125-Φ160



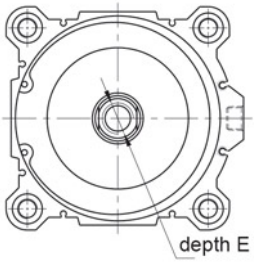


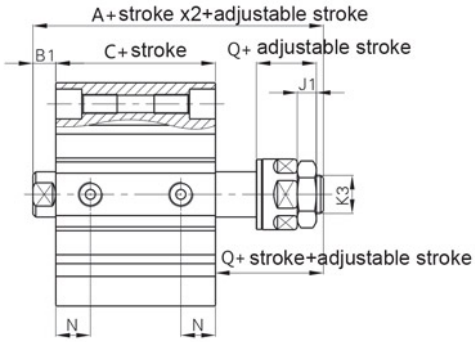
Bore	A	B1	C	E		N
				St≤10	St≤10	
125	115	16	83	22.5	30	24.5
140	115	16	83	22.5	30	24.5
160	125	17	91	26.5	30	27.5

Note: does not indicate the same size as the standard size.

■ Figure Dimension (CQ2J)

Φ125-Φ160

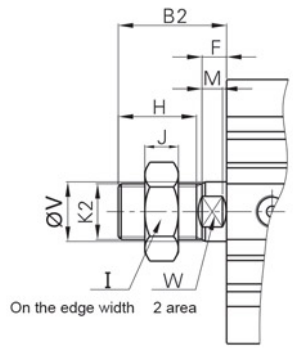




Bore	A	B1	C	E		N	Q	J1	K3
				St≤10	St≤10				
125	140.8	16	83	22.5	30	24.5	42.5	13.5	M27X2.0
140	140.8	16	83	22.5	30	24.5	42.5	13.5	M27X2.0
160	175.3	17	91	26.5	30	27.5	68	18	M36X2.0

Note: does not indicate the same size as the standard size.

● End Rod male thread



Bore	B2	F	H	I	J	K2	M	V	W
125	58	13	42	46	18	M30X1.5	9	32	27
140	58	13	42	46	18	M30X1.5	9	32	27
160	64	14	47	55	21	M36X1.5	11	40	36