

HC2系列油壓缸 HC2 Series Hydraulic Cylinders

70/140kgf/cm² JIS 規格基準/ JIS Basic Standard Hyd. Cylinders

油慶公司之HC2形標準油壓缸,是依據JIS B8354規格的油壓缸,使用於一般產業機械及工作機械上,廣泛用途之油壓缸,而且製造多種固定座形式,特別是因為將緩衝構造加以改良,得到沒有衝擊樣而緩慢停止之特性-

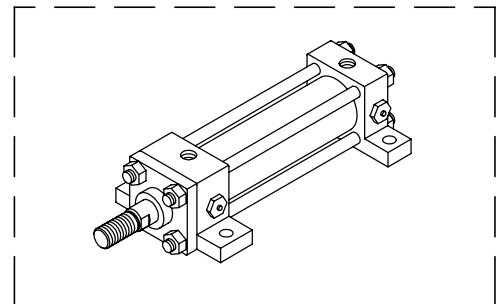
The HC2 standard hyd cylinders which manufactured accord to JIS B 8354 specifications and can be employed in general production machinery & machine tools. Wide applications, Since, there are being with much mounting styles Especially those series hyd cylinders have reformed the cushioning structure so that, there are being with no impulse and slowly stopped features.

- * 有多樣的固定座形式
- * 有低速性優良的高精度動作
- * 有緩慢順滑之緩衝效果

- * There are being with much mounting styles.
- * There are being with high precision at low speed output rating.
- * There is moved slowly,slide smoothly and also being with cushioning effectness.

規範 Specifications

項目 Item	型式 Model	HC2 70	HC2 140
缸管內徑 Cylinder Bore mm		ø40, ø50, ø63, ø80 ø100, ø125, ø150	
固定座形式 Mounting		LA, LB, FA, FB, FC, FD, CA, CA, SD, TA, TC,	
※ 1 使用壓力 Operating Pressure		70	140
最高使用壓力 Max.Operating Pressure kgf/cm ²	後蓋端內壓 Intensify press.	90	180
	前蓋端內壓 Rod Side	135	180
	活塞桿 徑記號 Rod Type B Rod Type C	110	140
最低作動壓力 Min Operating Pressure		3kgf/cm ² 以下 Less than 3 kgf/cm ²	
最高使用速度 Max. Operating Speed mm/sec	缸管內徑 Cylinder Bore	40~63	400
		80~125	300
		140~150	200
最低使用速度 Min Operating Speed		8	
※ 2 最大衝程 Max. Stroke mm	缸管內徑 Cylinder Bore	40, 50	1200
		63, 80	1600
		100~150	2000
衝程之容許差 Tolerance of Stroke		JIS B 8354 A級 Refer to Righ Table	
活塞桿前端螺紋精度 Accuracy of Threading at Rod End		JIS B 0211-6g(2級)	
周圍溫度範圍 Range of Ambient Temperature		-10~+80	



- ※1.最高使用壓力是指包含瞬間上昇之衝壓,而且強度上可以使用之最高壓力而言 -
The max. operating pressure which means the instantaneous increased pressure and the intensity is indicated the max. operating pressure.

- ※2.最大衝程是依彎曲強度低值而求得 -
彎曲強度限制衝程;參考(DRAW)
The max. stroke is derived from the lowest value of bending strength refer the max.stroke for which the cylinder rod will be bended.and refer to (DRAW)

* 衝程之容許差

Tolerance of Stroke

衝程 Stroke mm	容許差 Tolerance mm
~100	+0.8
100~250	+1.0
250~630	+1.25
630~1000	+1.4
1000~1600	+1.6
1600~	+1.8

依公式計算出大概重量
基本重量及加算重量其數值,因記載於各固定座形式之外觀尺寸圖上,所以可在各固定座形式之外觀尺寸圖上計算

Estimated weight calculating :

The basic weight & added weight value which be recorded on the related fig and against to mountings. since. those can be calculated from mountings dimensions.

HC2

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*訂購內容索引 Ordering Index :

1	2	3	4	5	6	7	8	9	10	11	12	13
140	HC2	LA	125	B	100	B	A	B	D	E		V
140	HC2R	LA	125	B	100	B	A	B	D	E	R	V
1	使用壓力 Operating Pressure 70 /140 Kg/cm ²											
2	HC2 系列 HC2R— 感應開關(間接) HC2D— 雙軸心 HC2 Series HC1R— Sensor HC2D— Double rod											
3	固定座形式 SD, CA, CB , FA, FB, FC, FD, TA, TC, LA, LB Mounting											
4	缸管內徑 ,mm $\phi 40, \phi 50, \phi 63, \phi 70, \phi 80, \phi 90, \phi 100, \phi 125, \phi 150$ Cylinder Bore, mm											
5	活塞桿徑 A, B 參考(技術參數DRAW) Rod Dia A, B RodRefer Technical DRAW											
6	需要之行程, mm (最大容許行程) stroke, mm Max. Permissible											
7	緩衝閥型式: B—前後蓋緩衝 N—沒有緩衝 R—前蓋端緩衝 H—後蓋端緩衝 Location of Cushioning: B— The head and cap with cushioning N— No cushioning 											

*固定座形式 Mounting :

記號 Symbol	名 稱 Description	略 圖 Configuration	記號 Symbol	名 稱 Description	略 圖 Configuration
FC	前蓋端正方形法蘭形 Square flange at cylinder head		FD	後蓋端正方形法蘭形 Square flange at cylinder cap	
LA	軸直角方向腳架形 Foot mounting side luge		CB	山形座(2山形) clevis fork at cylinder cap	
LB	軸方向腳架形 Foot mounting side end angles		TA	前蓋附支撐形 Trunnion mounting at cylinder head	
FA	前蓋端長方形法蘭形 Rectangular flange at cylinder head		TC	中間固定支撐形 Centre Trunnion mounting	
FB	後蓋端長方形法蘭形 Rectangular flange at cylinder cap		SD	基本形 Basic type	
CA	山形座(1山形) Plaie clevis at cylinder cap				

HC2

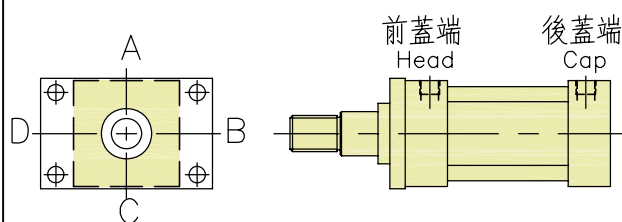
70/140kgf/cm² HC2

形標準油壓缸使用上注意事項

70/140kgf/cm² HC2 Care in Application

* 出入口緩衝調整器及排氣孔的方向

Port Cushioning & Air Vent Positions



各個之方向是從前蓋端看順時針方向依 A B C D 排成標準之方向是出入口在 A 緩衝調整器在 B 排氣孔在 D

註:出入口和緩衝調整器不可在同一方向 -

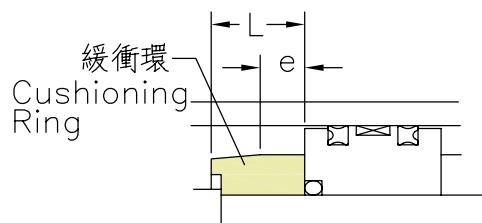
Each position is toward the cylinder head and A B C D turn in clockwise so that the standard port position at A and the cushioning regulator at B air vent position will be at D as fig shown.

Remarks : The port position & cushioning regulator will not at same side.

* 緩衝 Cushioning:

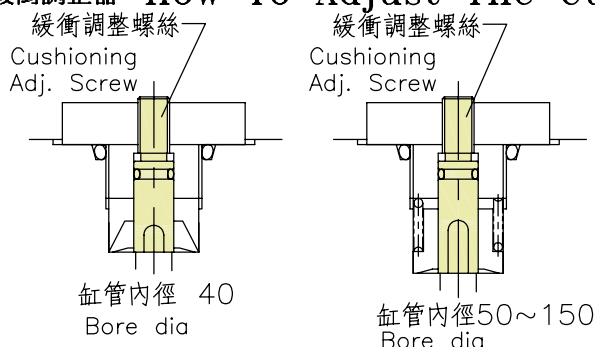
因為緩衝環是經過特殊之節流加工,使得有緩慢順滑之緩衝效果 - 如在各端面距離3mm左右停止,其緩衝效果會很不良,請要注意 - 然而,緩衝環平行處(e尺寸)如要較長可以製造,請再詳細商談 -

Because the cushioning ring is processed by special throttle processing so that, there are being with moved slowly & smoothly effectness if those stopped for from end about 3mm and will be formed illness Since, if want more longer cushioning ring(e) which must be consult us.



缸管內徑 Bore Dia.	緩衝環之長度(L)	平行處之長度(e)
32,40	20	10
50,63	20	8
80~160	25	8

* 緩衝調整器 How To Adjust The Cushioning Regulator:



* 請配合機械作動而調整 -

During making adjusting which must be coupled with mechanical action.

* 順時針方向旋轉調整螺絲的話,緩衝時間就較長 -

The cushioning time will be prolonged when turn the adjusting screw in clock-wise.

* 調整螺絲正逆旋轉都會停止(不用擔心調整螺絲掉落) -

The adjusting screw will be stopped when turn in clock wise or counter clock wise But never mind the adjusting screw dropped

* 固定座形式 Mounting :

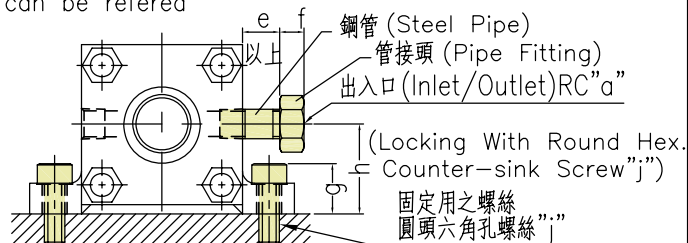
	推出 Extend	拉入 Retract
FA		
FB		
LA		
LB		
	根據推出或拉入出力大的一方為基準選擇下列任何二種固定座同樣大時,請洽談為宜 Refer the max. output anyhow, extend or retract please select two mountings in right configurations if want same for extend & retract in necessary please consult with us.	
CA CB	衝程如操超過1000mm以上時請不要橫向安裝 IF the stroke is over than 1000mm for which mounting crossly is prohibited	

* 軸直角腳架形(LA形)配管上需注意:

Remarks during LA mounting.

LA形缸管內徑40~100出入口方向使用在B(右)或D(左)其配管接頭會干涉到油壓缸固定用螺絲而無法配管,在使用這種形式時,請參考下圖之樣式

The LA bore dia : 40 ~100 and the port position for which at B(right) or D(left) since, the pipe fitting will be disturbed their mounting screw so that the following fig can be referred



缸管內徑 Bore dia	a	e	f	g	h	j
40	3/8	27	30	24	37.5	M10
50	1/2	33	40	29	45	M12
63	1/2	36	40	35	50	M16
80	3/4	40	42	41	60	M16
100	3/4	46	42	47	71	M20

如果使用鎖入形配管接頭時,請參照上圖選擇長形之種類 -

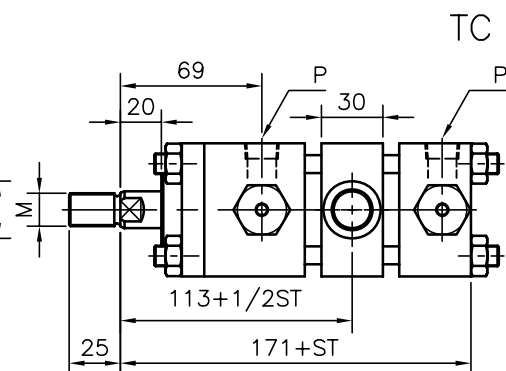
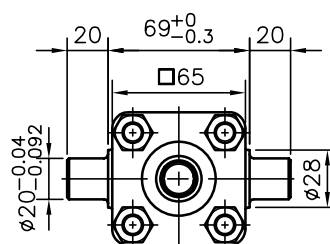
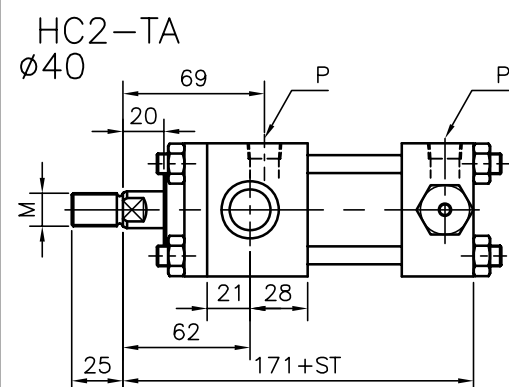
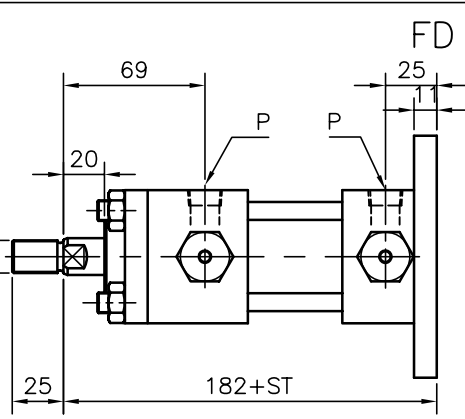
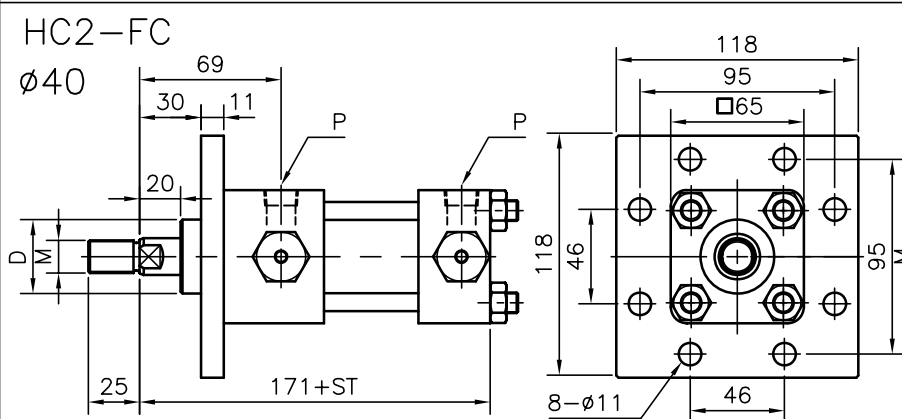
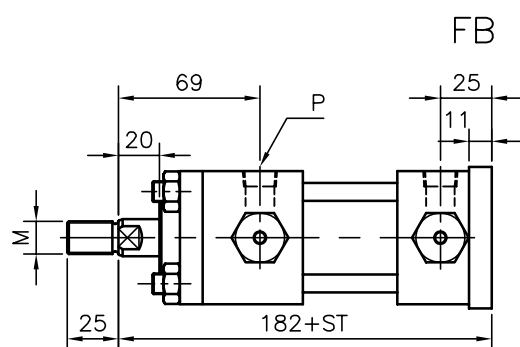
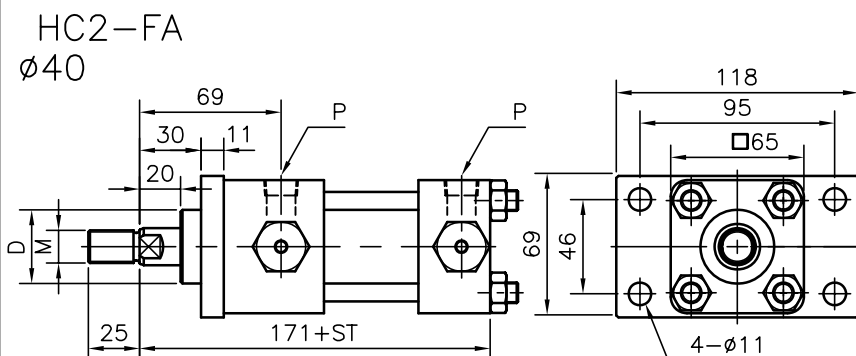
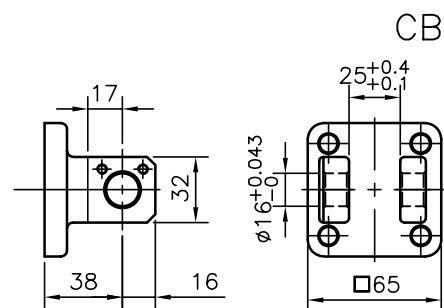
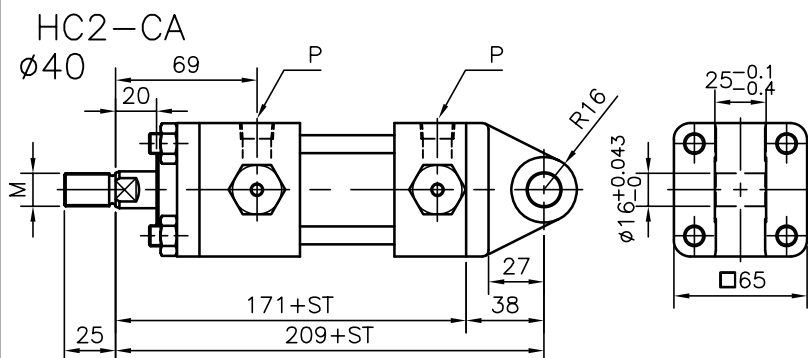
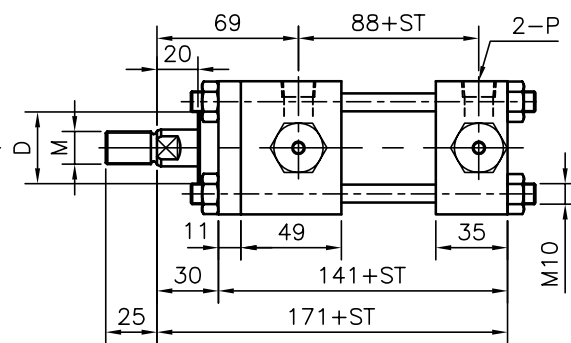
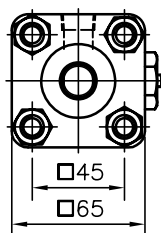
If employed the inserted pipe fitting, which can be referred above fig.

HC2- $\phi 40$

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SD

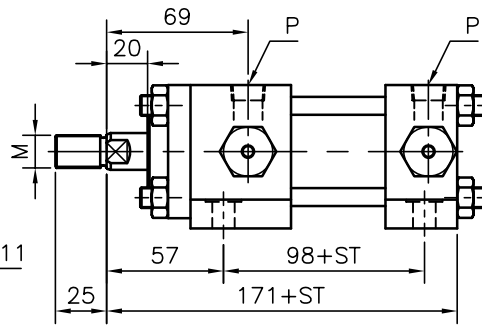
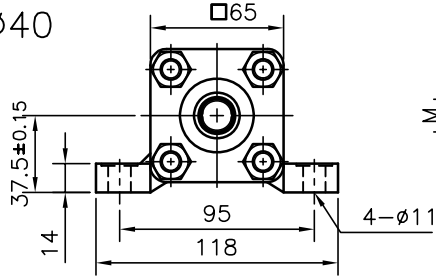
TYPE	ROD	M	D	P
A	$\phi 18$	M16*P1.5	$\phi 36$	Rc3/8"
B	$\phi 22.4$	M20*P1.5	$\phi 40$	G 3/8"



HC2- $\phi 40$

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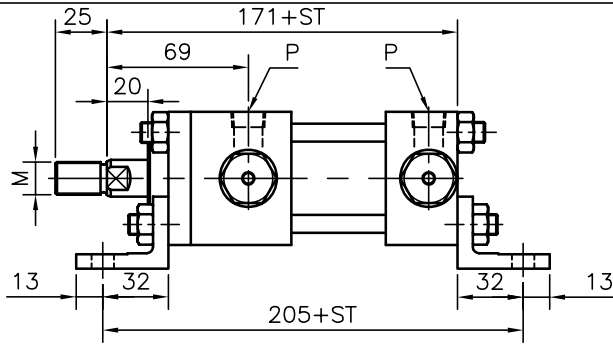
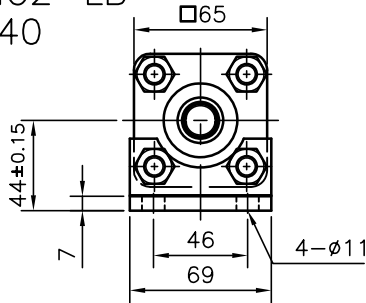
HC2-LA
 $\phi 40$



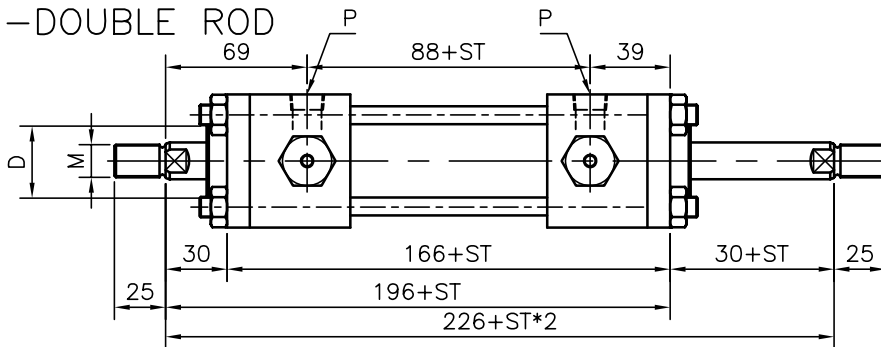
TYPE	ROD	M	D
A	$\phi 18$	M16*P1.5	$\phi 36$
B	$\phi 22.4$	M20*P1.5	$\phi 40$

P
Rc3/8"
G 3/8"

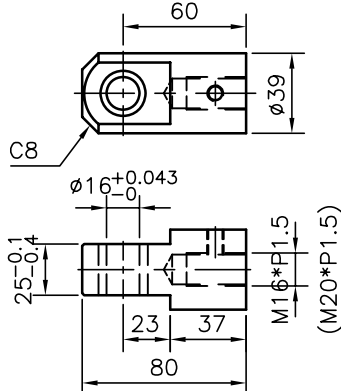
HC2-LB
 $\phi 40$



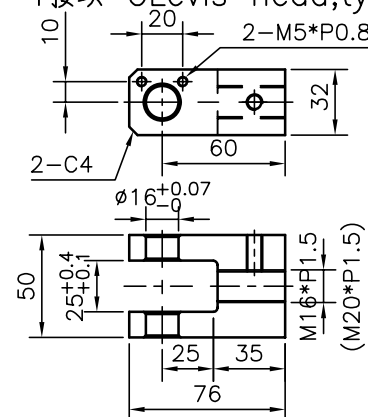
HC2-DOUBLE ROD
 $\phi 40$



HC2- $\phi 40$ -I 接頭 Clevis head, type I



HC2- $\phi 40$ -Y 接頭 Clevis head, type Y



油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 4.4 + (0.9 * 2)

= 6.2 kg

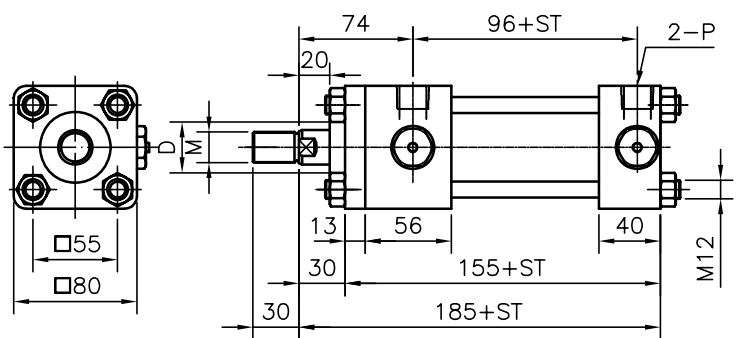
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 18$ =W1 (kg)	4.1	4.4	4.7	4.9	5.2	4.7	4.8	4.5	4.6	4.2	4.7
ROD $\phi 22.4$ =W1 (kg)	4.2	4.5	4.8	5.0	5.3	4.8	4.9	4.6	4.7	4.3	4.8
W2 (kg/100mm)		ROD $\phi 18$ =0.9					ROD $\phi 22.4$ =1.0				

HC2- $\phi 50$

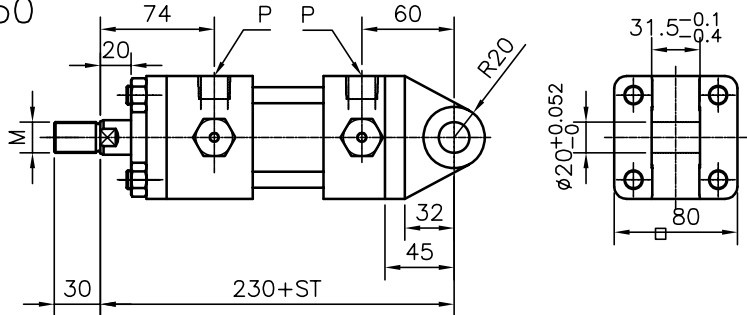
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SD

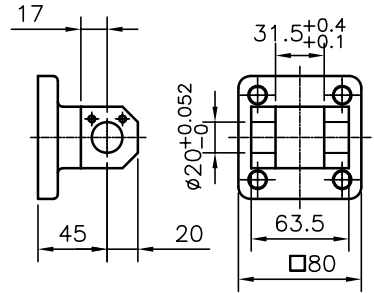
TYPE	ROD	M	D	P
A	$\phi 22.4$	M20*P1.5	$\phi 40$	Rc1/2"
B	$\phi 28$	M24*P1.5	$\phi 46$	G 1/2"



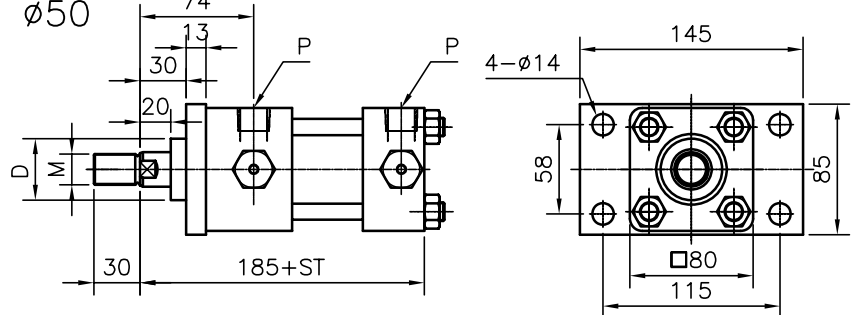
HC2-CA $\phi 50$



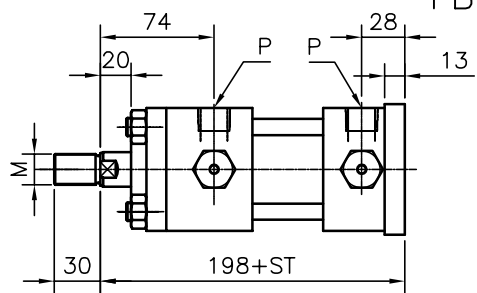
CB



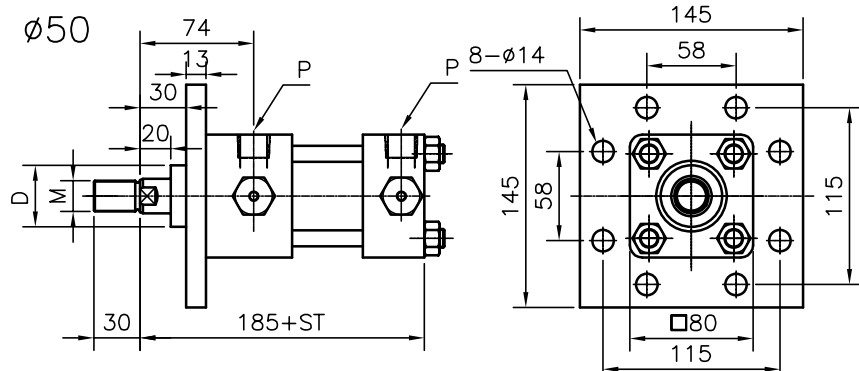
HC2-FA $\phi 50$



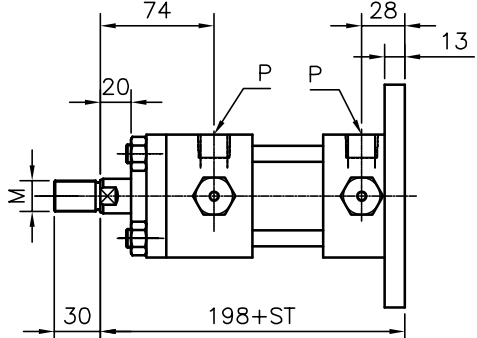
FB



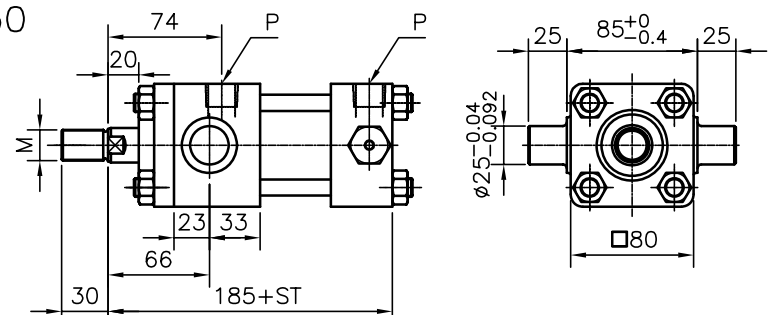
HC2-FC $\phi 50$



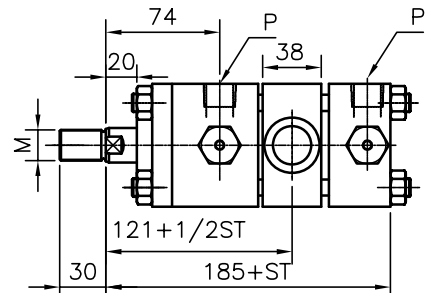
FD



HC2-TA $\phi 50$



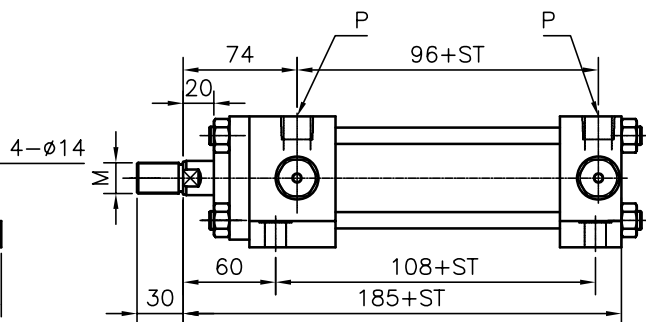
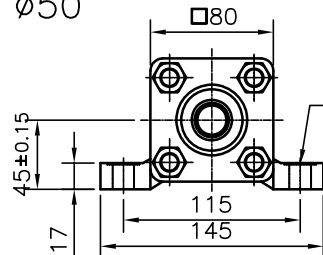
TC



HC2- $\phi 50$

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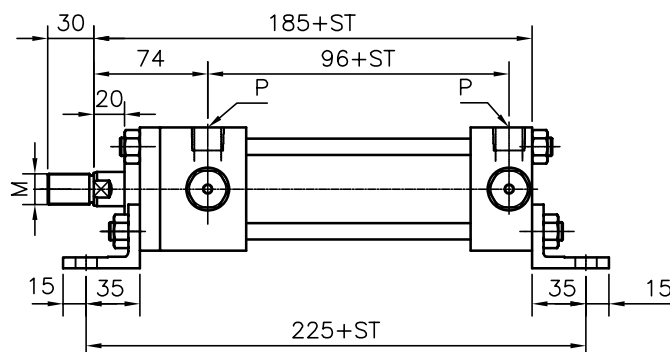
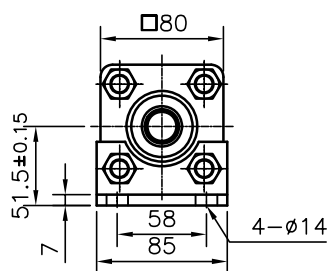
HC2-LA
 $\phi 50$



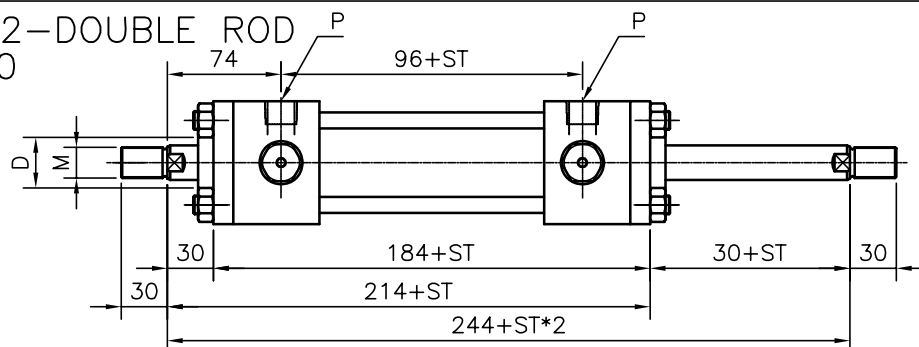
TYPE	ROD	M	D
A	$\phi 22.4$	M20*P1.5	$\phi 40$
B	$\phi 28$	M24*P1.5	$\phi 46$

P
Rc1/2"
G 1/2"

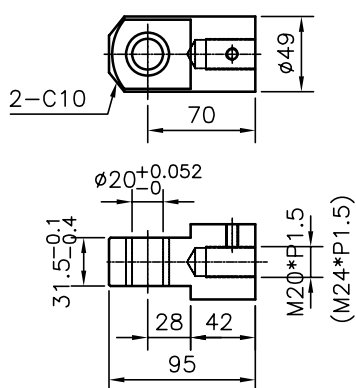
HC2-LB
 $\phi 50$



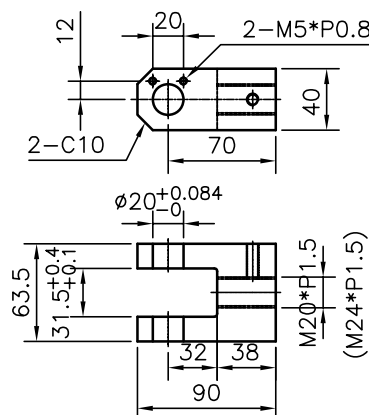
HC2-DOUBLE ROD
 $\phi 50$



HC2- $\phi 50$ -I接頭 CLevis head,type I



HC2- $\phi 50$ -Y接頭 CLevis head,type Y



油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 7.2 + (1.2 *2)

= 9.6 kg

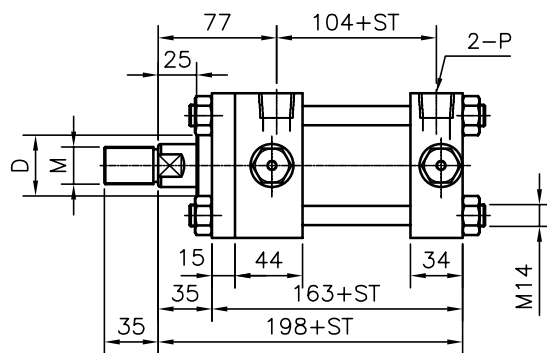
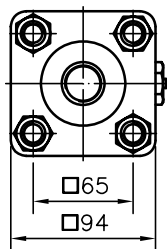
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 22.4$ =W1 (kg)	6.7	7.2	7.8	8.0	8.6	7.7	7.9	7.5	7.5	6.8	7.7
ROD $\phi 28$ =W1 (kg)	6.6	7.3	7.9	8.1	8.7	7.8	8.0	7.6	7.6	6.9	7.8
W2 (kg/100mm)	ROD $\phi 22.4$ =1.2					ROD $\phi 28$ =1.3					

HC2- $\phi 63$

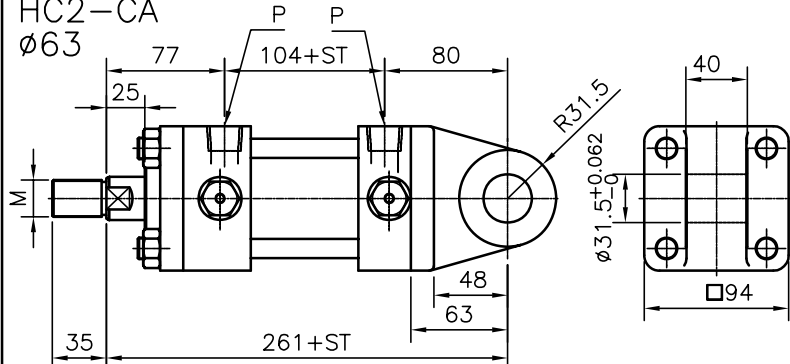
7/14MPa用

SD

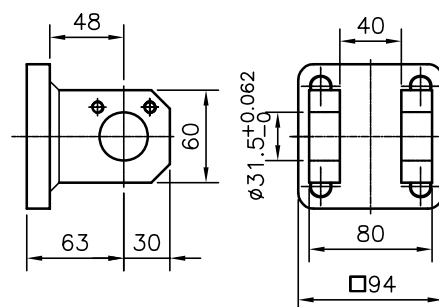
TYPE	ROD	M	D	P
A	$\phi 28$	M24*P1.5	$\phi 46$	Rc1/2"
B	$\phi 35.5$	M30*P1.5	$\phi 55$	G 1/2"



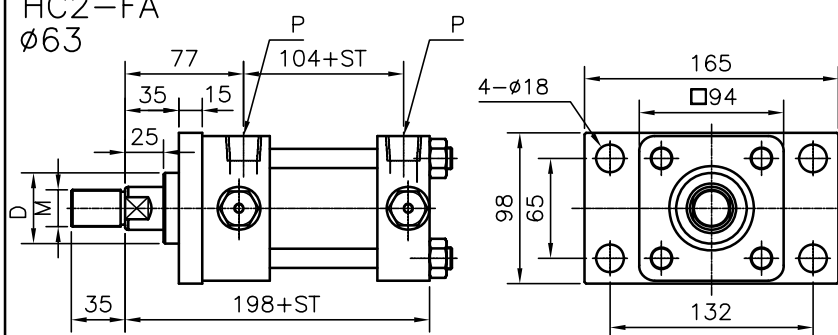
HC2-CA
 $\phi 63$



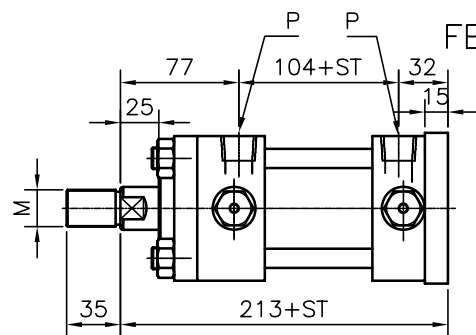
CB



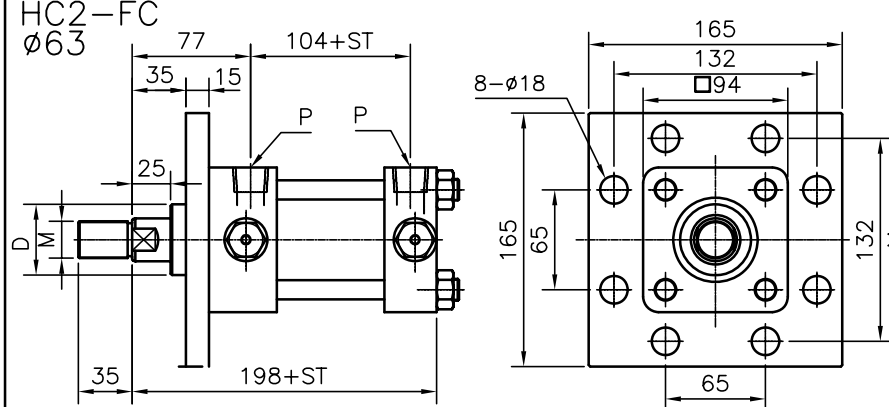
HC2-FA
 $\phi 63$



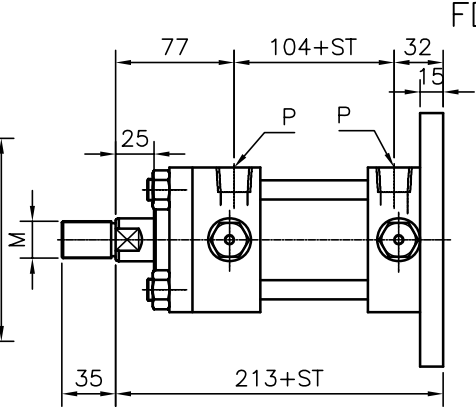
FB



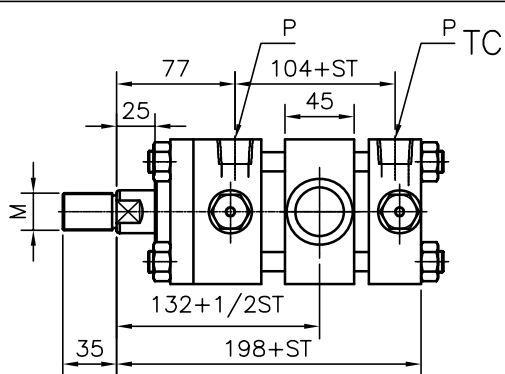
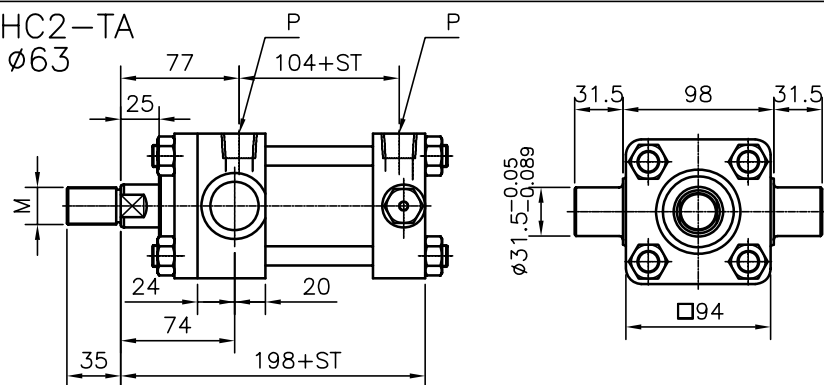
HC2-FC
 $\phi 63$



FD



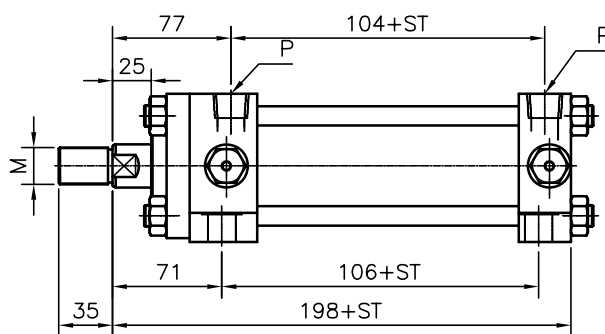
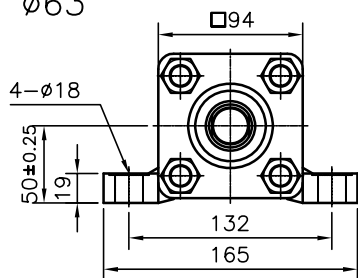
HC2-TA
 $\phi 63$



HC2- $\phi 63$

7/14MPa用

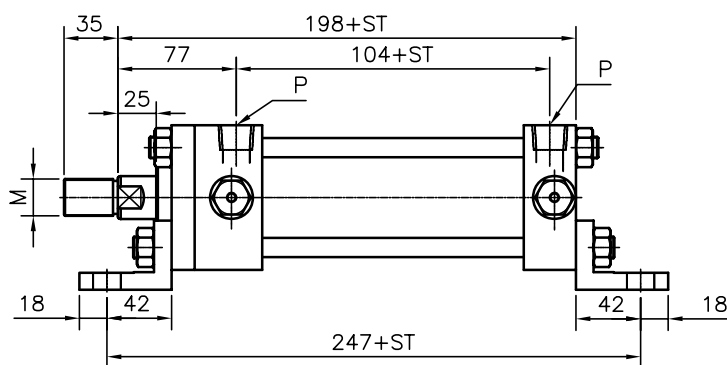
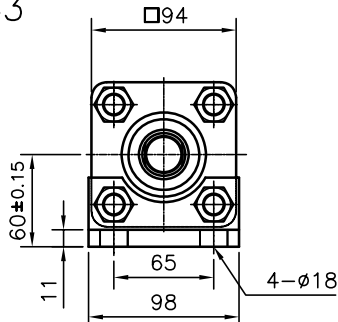
HC2-LA
 $\phi 63$



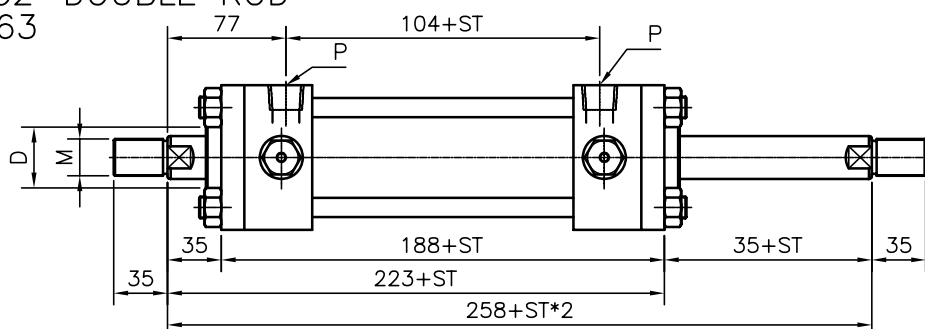
TYPE	ROD	M	D
A	$\phi 28$	M24*P1.5	$\phi 46$
B	$\phi 35.5$	M30*P1.5	$\phi 55$

P
Rc1/2"
G 1/2"

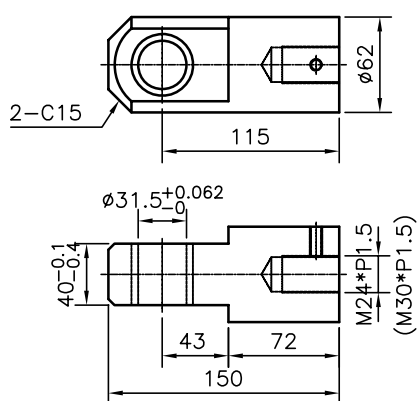
HC2-LB
 $\phi 63$



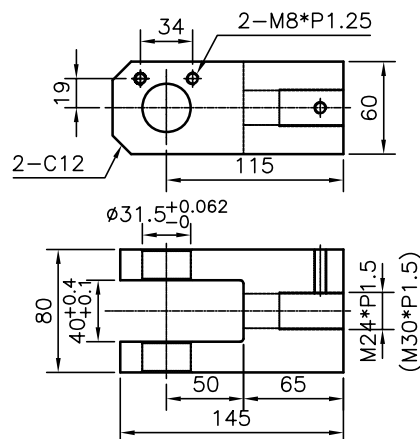
HC2-DOUBLE ROD
 $\phi 63$



HC2- $\phi 63$ -I 接頭 CLevis head, type I



HC2- $\phi 63$ -Y 接頭 CLevis head, type Y



油壓缸大概重量計算

Estimted weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 10.5 + (1.6 *2)

= 13.7 kg

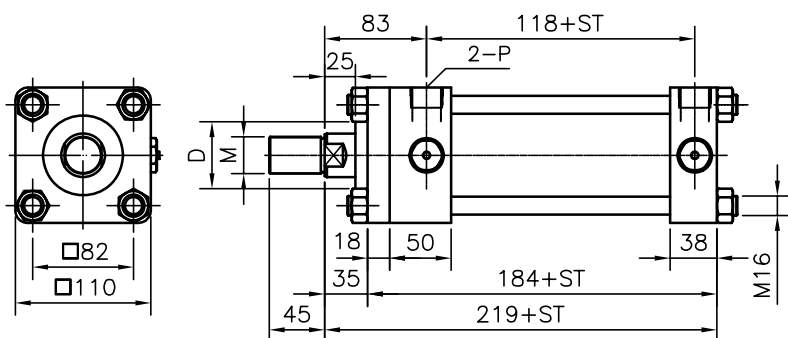
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 28$ =W1 (kg)	9.8	10.5	11.6	11.7	12.8	12.1	12.8	10.8	11.5	10.3	11.7
ROD $\phi 35.5$ =W1 (kg)	9.9	10.6	11.7	11.8	12.9	12.1	12.8	10.9	11.6	10.4	11.8
W2 (kg/100mm)	ROD $\phi 28$ =1.6					ROD $\phi 35.5$ =1.9					

HC2- $\phi 80$

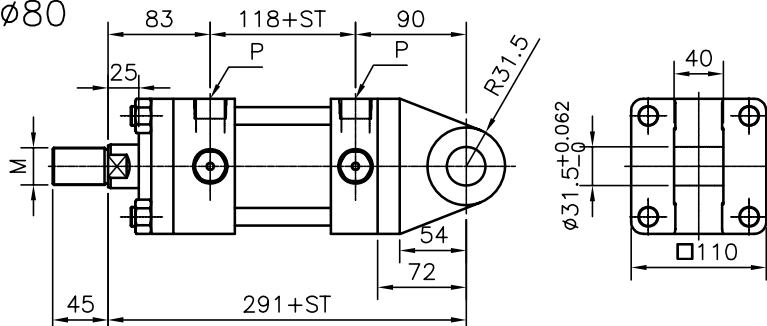
7/14MPa用

SD

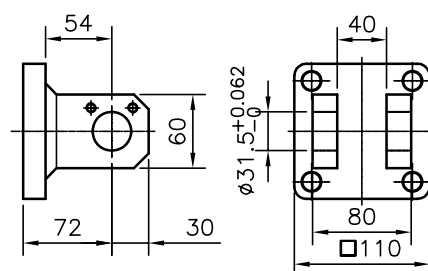
TYPE	ROD	M	D	P
A	$\phi 35.5$	M30*P1.5	$\phi 55$	Rc3/4"
B	$\phi 45$	M39*P1.5	$\phi 65$	G 3/4"



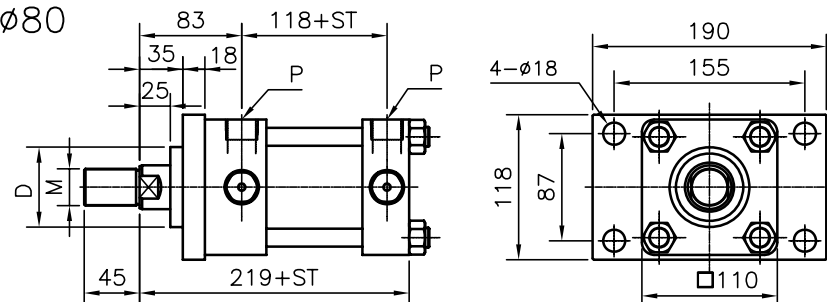
HC2-CA
 $\phi 80$



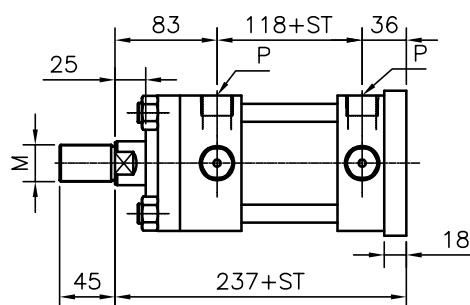
CB



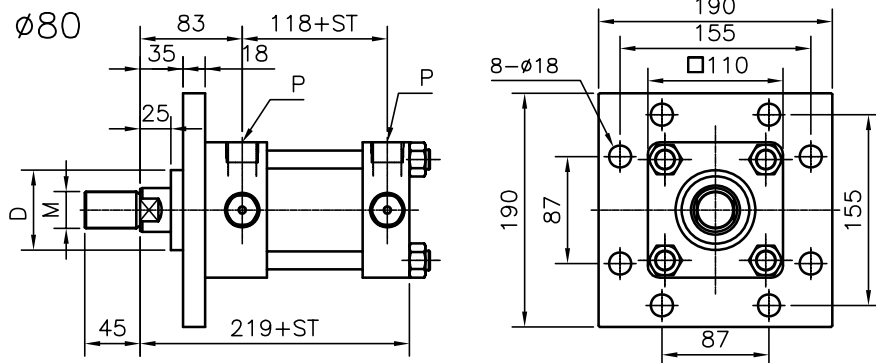
HC2-FA
 $\phi 80$



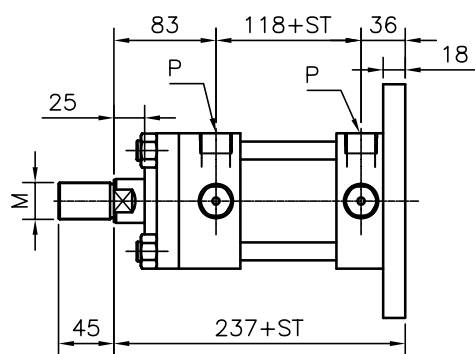
FB



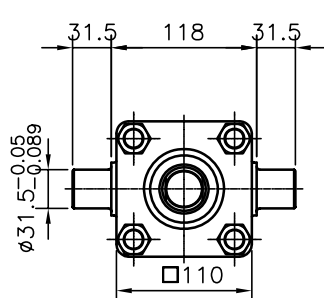
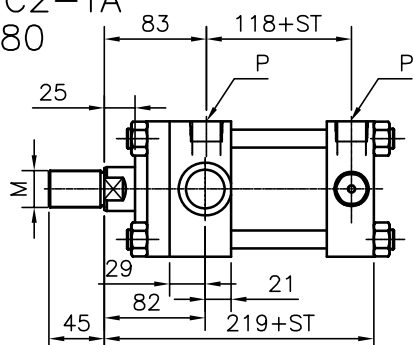
HC2-FC
 $\phi 80$



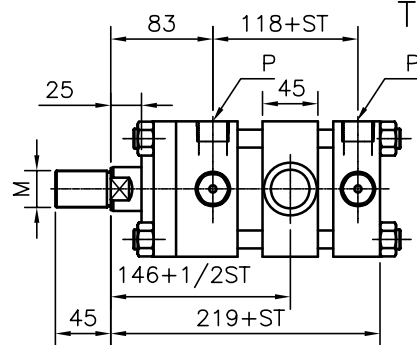
FD



HC2-TA
 $\phi 80$



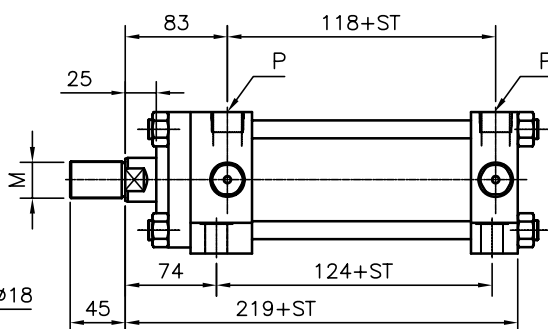
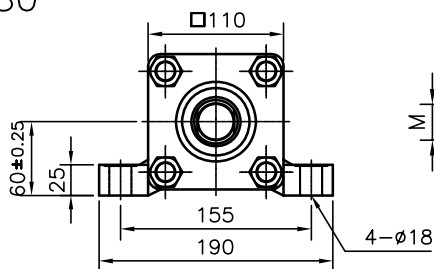
TC



HC2- $\phi 80$

7/14MPa用

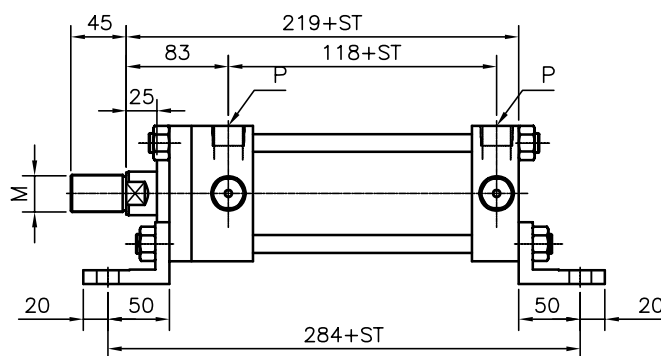
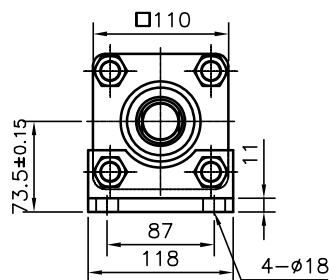
HC2-LA
 $\phi 80$



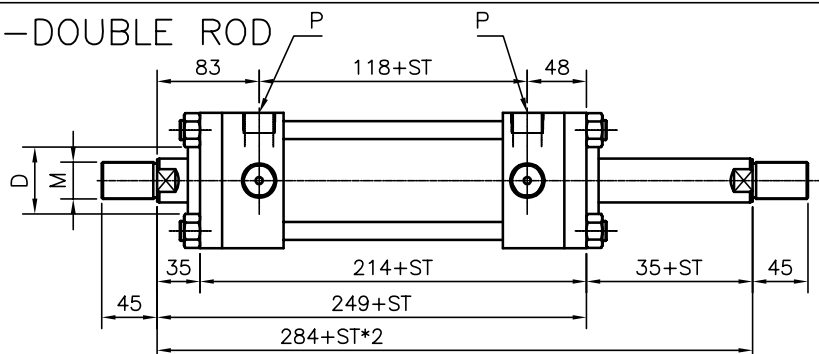
TYPE	ROD	M	D
A	$\phi 35.5$	M30*P1.5	$\phi 55$
B	$\phi 45$	M39*P1.5	$\phi 65$

P
Rc3/4"
G 3/4"

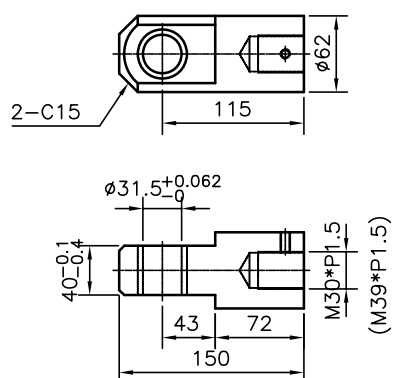
HC2-LB
 $\phi 80$



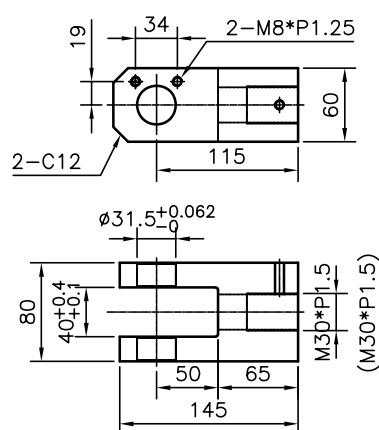
HC2-DOUBLE ROD
 $\phi 80$



HC2- $\phi 80$ -I接頭 CLevis head,type I



HC2- $\phi 80$ -Y接頭 CLevis head,type Y



油壓缸大概重量計算

Estimted weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 16.2 + (2.4 *2)

= 21 kg

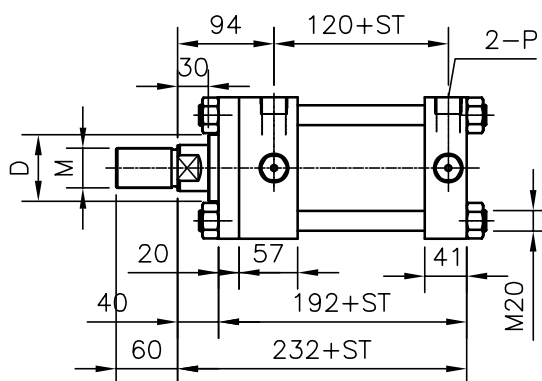
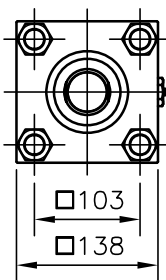
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 35.5$ =W1 (kg)	14.9	16.2	18.0	18.0	19.8	18.0	18.9	16.0	17.3	15.6	17.4
ROD $\phi 45$ =W1 (kg)	15.1	16.4	18.4	18.2	20.0	18.4	19.3	16.4	17.7	16.0	17.8
W2 (kg/100mm)		ROD $\phi 35.5$ =2.4					ROD $\phi 45$ =2.9				

HC2- $\phi 100$

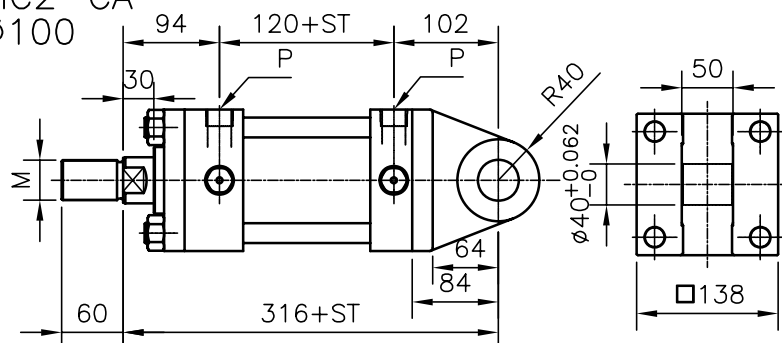
7/14MPa用

SD

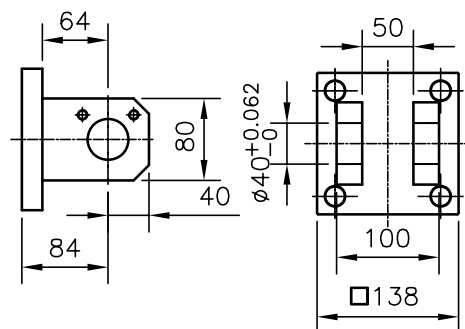
TYPE	ROD	M	D	P
A	$\phi 45$	M39*P1.5	$\phi 65$	Rc3/4"
B	$\phi 56$	M48*P1.5	$\phi 80$	G 3/4"



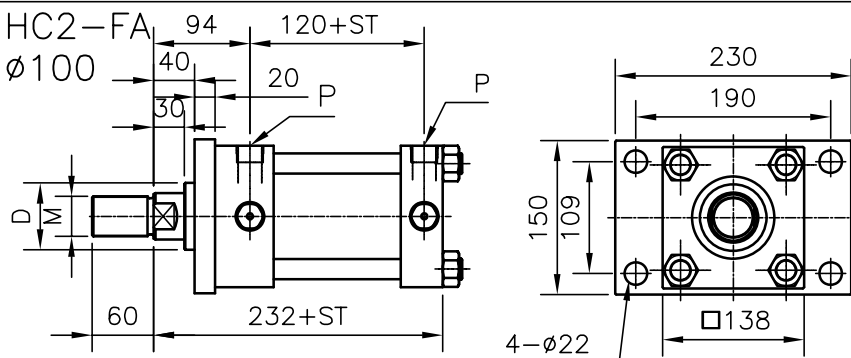
HC2-CA
 $\phi 100$



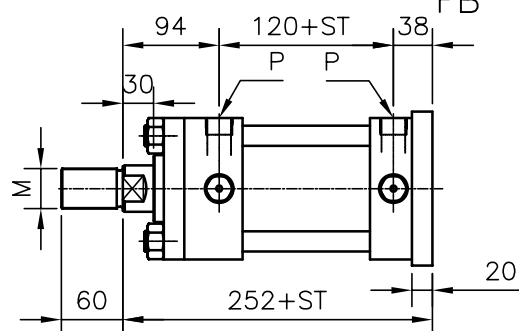
CB



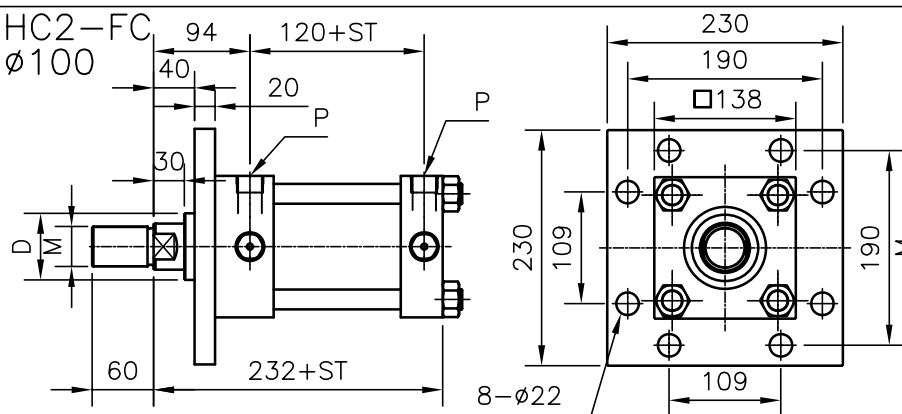
HC2-FA
 $\phi 100$



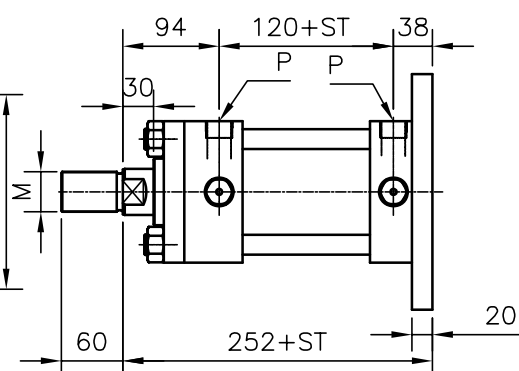
FB



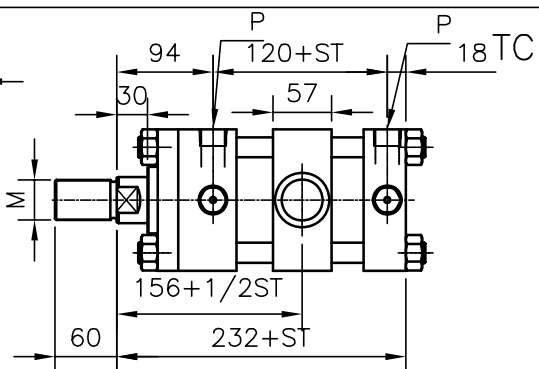
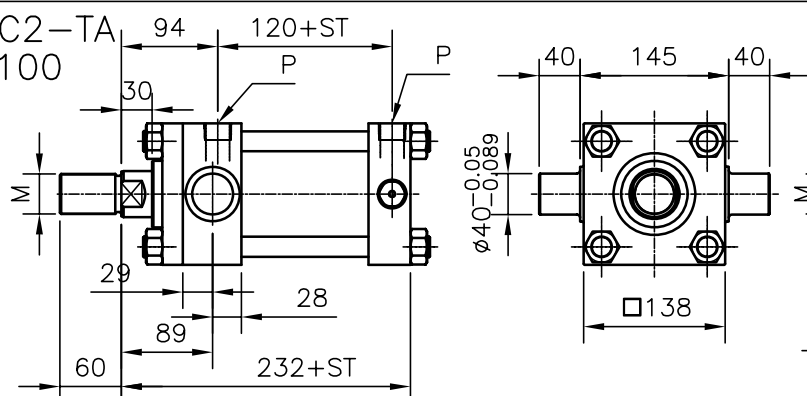
HC2-FC
 $\phi 100$



FD



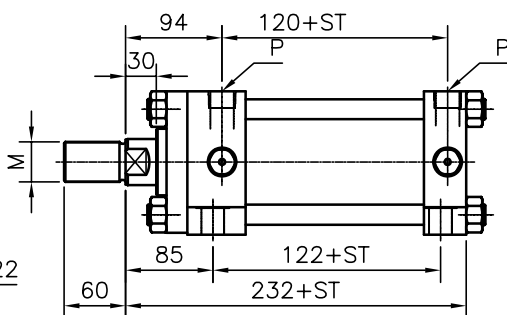
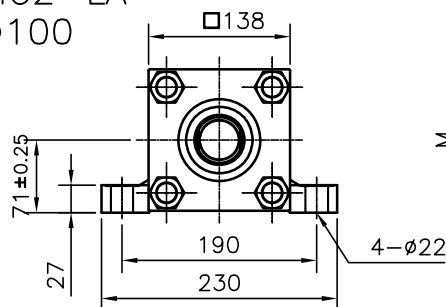
HC2-TA
 $\phi 100$



HC2- $\phi 100$

7/14MPa用

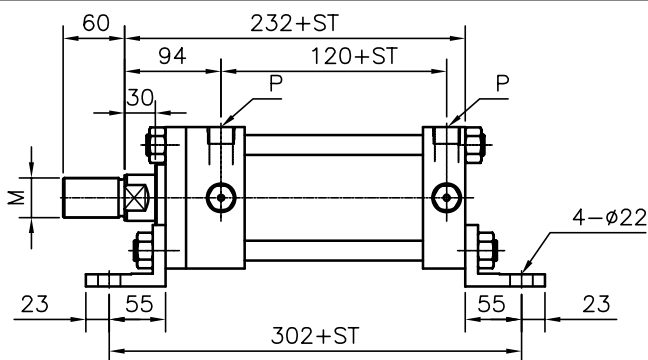
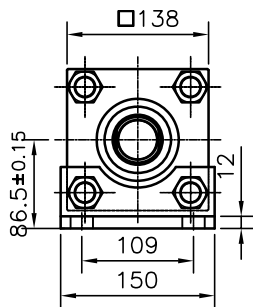
HC2-LA
 $\phi 100$



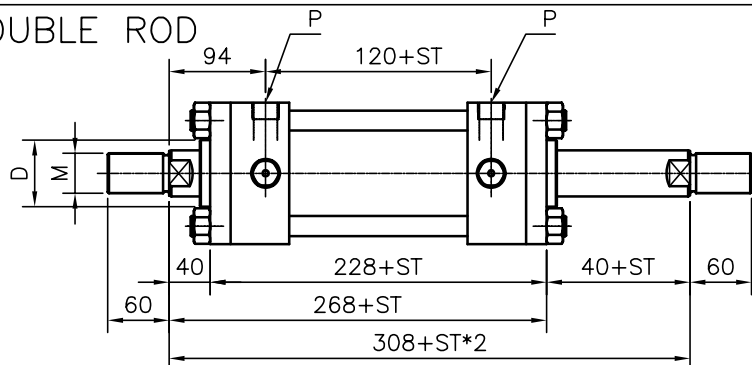
TYPE	ROD	M	D
A	$\phi 45$	M39*P1.5	$\phi 65$
B	$\phi 56$	M48*P1.5	$\phi 80$

P
Rc3/4"
G 3/4"

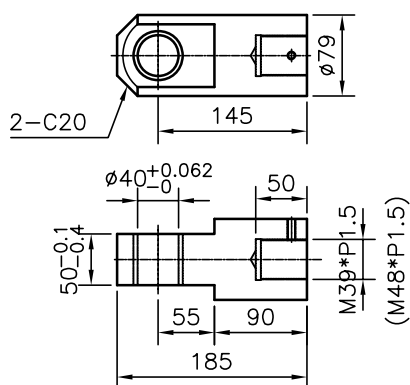
HC2-LB
 $\phi 100$



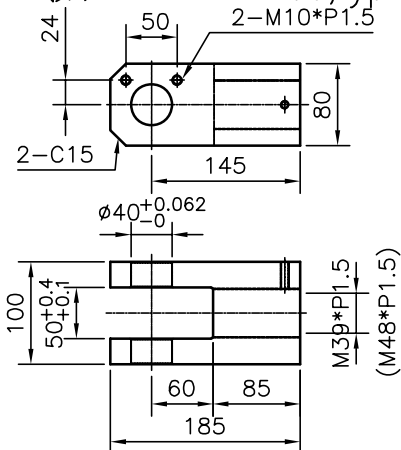
HC2-DOUBLE ROD
 $\phi 100$



HC2- $\phi 100$ -I接頭 CLevis head,type I



HC2- $\phi 100$ -Y接頭 CLevis head,type Y



油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 27.3 + (3.8 * 2)

= 34.9Kg

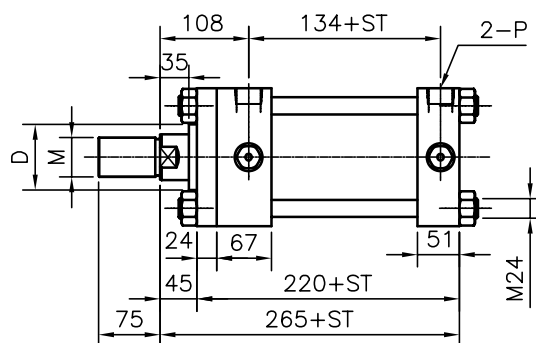
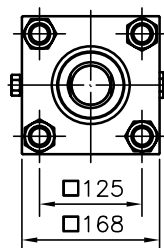
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 45$ =W1 (kg)	25.1	27.3	30.3	30.0	33.0	31.3	32.8	26.9	29.0	26.5	30.4
ROD $\phi 56$ =W1 (kg)	25.5	27.7	30.7	30.4	33.4	31.7	33.2	27.3	29.4	26.9	30.8
W2 (kg/100mm)	ROD $\phi 45$ =3.8					ROD $\phi 56$ =4.4					

HC2- $\phi 125$

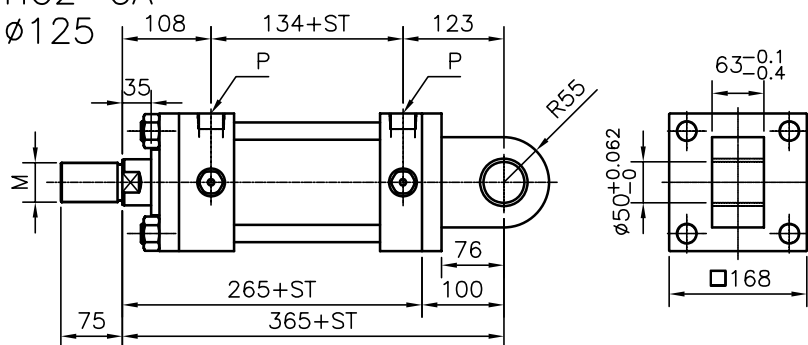
7/14MPa用

SD

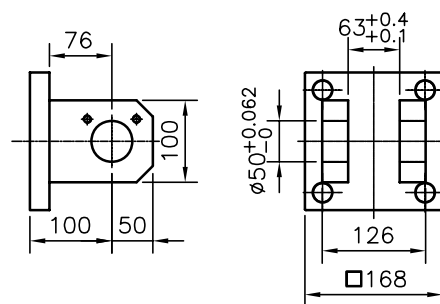
TYPE	ROD	M	D	P
A	$\phi 56$	M48*P1.5	$\phi 80$	Rc 1"
B	$\phi 70$	M64*P2.0	$\phi 95$	G 1"



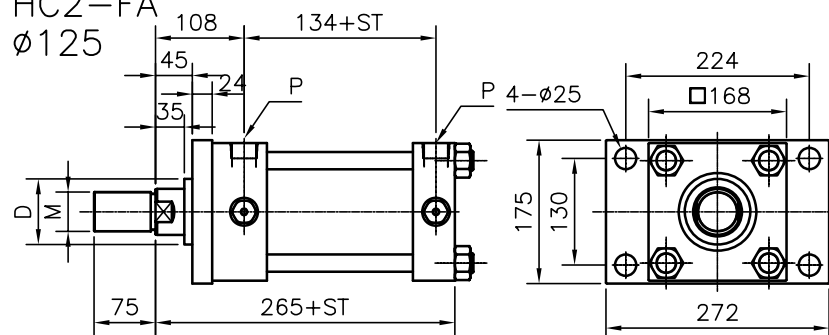
HC2-CA
 $\phi 125$



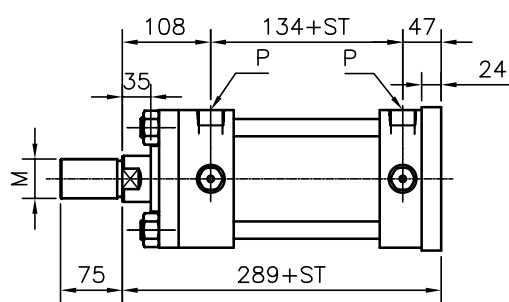
CB



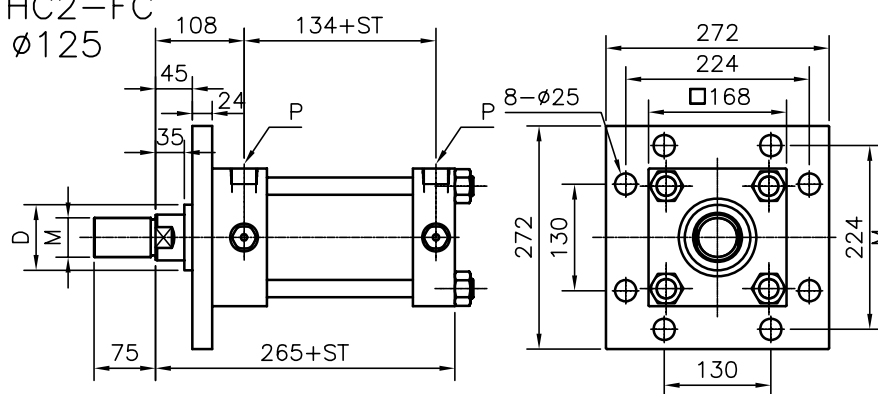
HC2-FA
 $\phi 125$



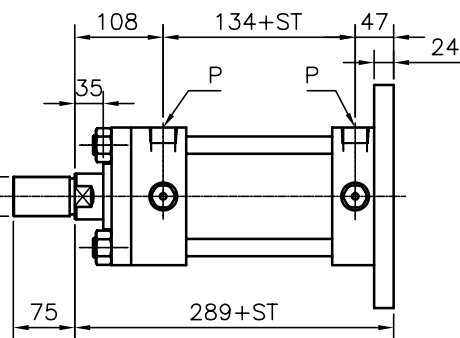
FB



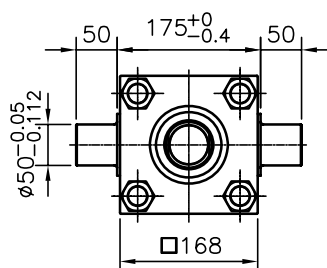
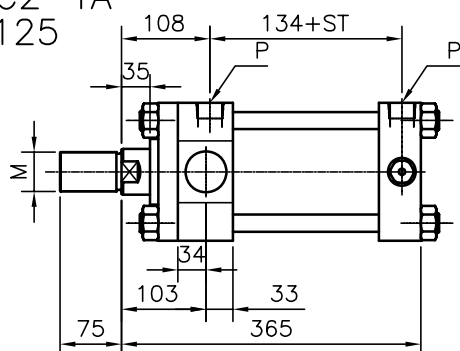
HC2-FC
 $\phi 125$



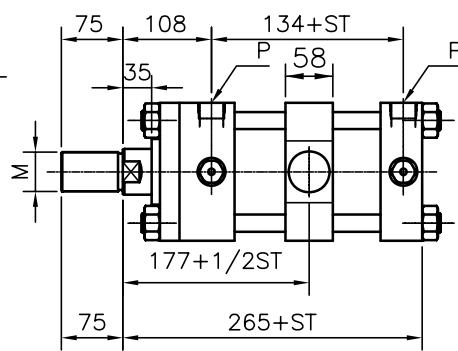
FD



HC2-TA
 $\phi 125$



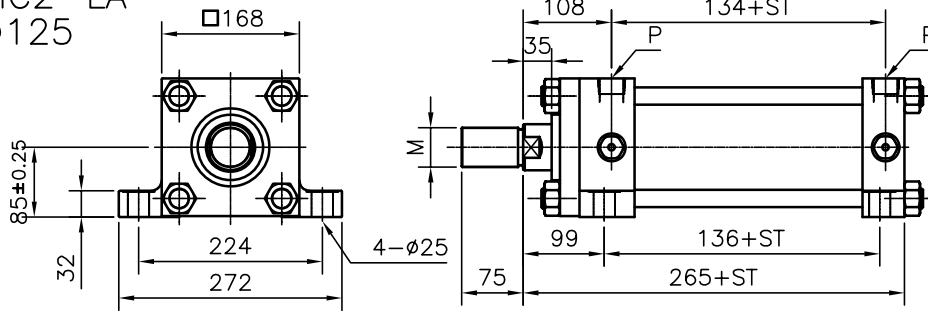
TC



HC2- $\phi 125$

7/14MPa用

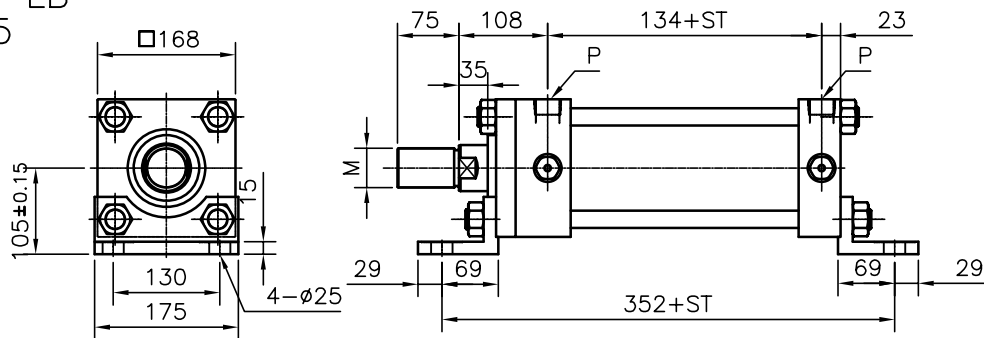
HC2-LA
 $\phi 125$



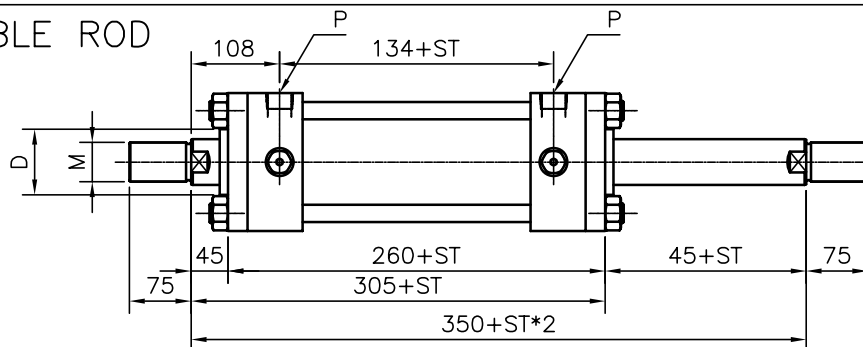
TYPE	ROD	M	D
A	$\phi 56$	M48*P1.5	$\phi 80$
B	$\phi 70$	M64*P2.0	$\phi 95$

P
Rc 1"
G 1"

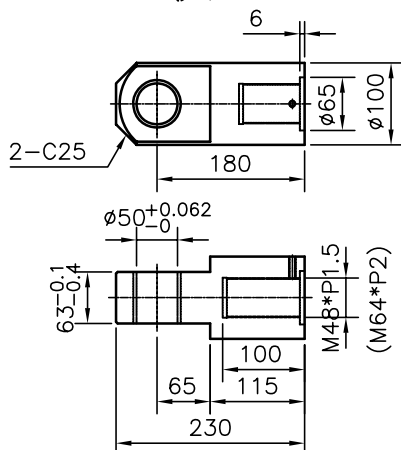
HC2-LB
 $\phi 125$



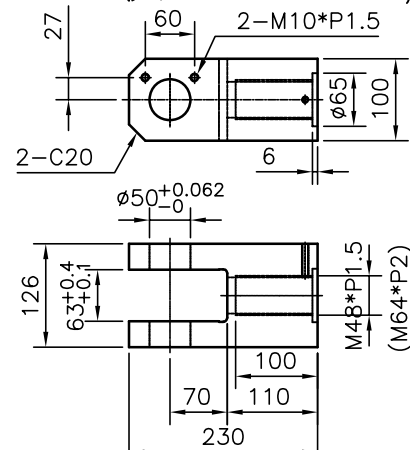
HC2-DOUBLE ROD
 $\phi 125$



HC2- $\phi 125$ -I接頭 Clevis head, type I



HC2- $\phi 125$ -Y接頭 Clevis head, type Y



油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm
weight= W1 + (W2 * ST)
= 49.7 + (6.6 * 2)
= 62.9Kg

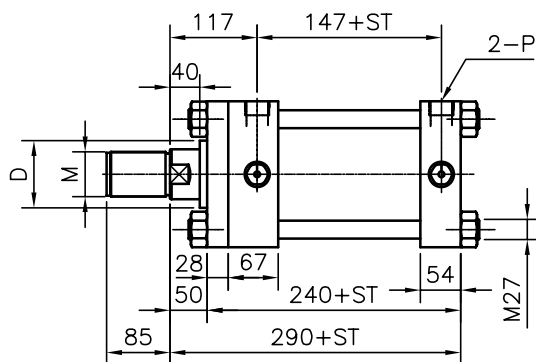
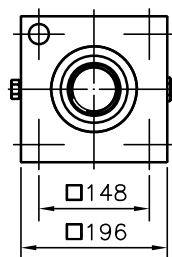
	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
ROD $\phi 56$ =W1 (kg)	46.4	49.7	55.1	54.3	59.7	57.2	60.2	49.3	56.3	47.8	54.3
ROD $\phi 70$ =W1 (kg)	46.0	50.1	55.5	54.7	60.3	57.8	60.6	49.7	56.7	48.2	54.7
W2 (kg/100mm)		ROD $\phi 56$ =6.6					ROD $\phi 70$ =7.8				

HC2- $\phi 150$

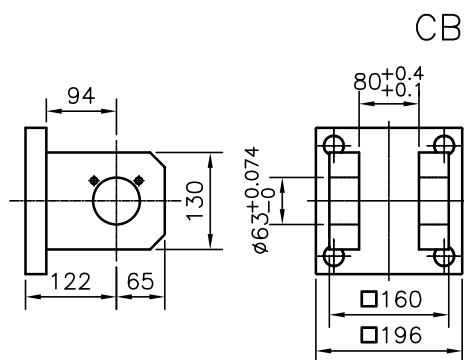
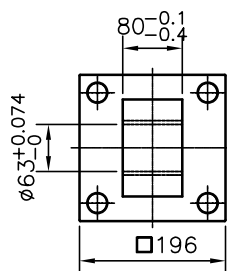
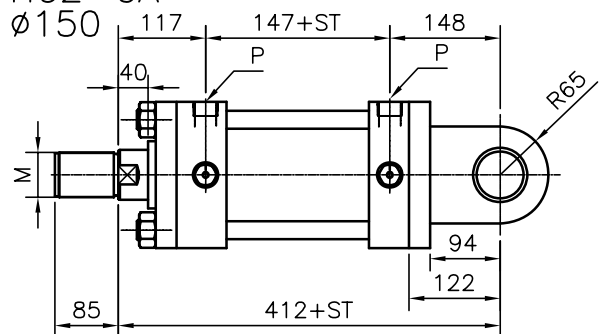
7/14MPa用

SD

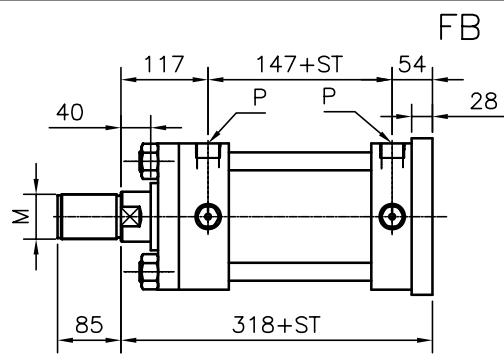
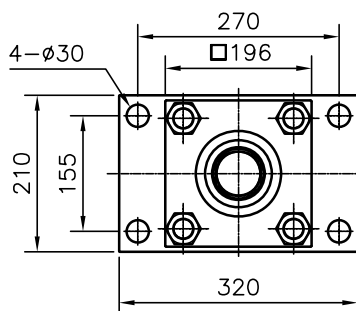
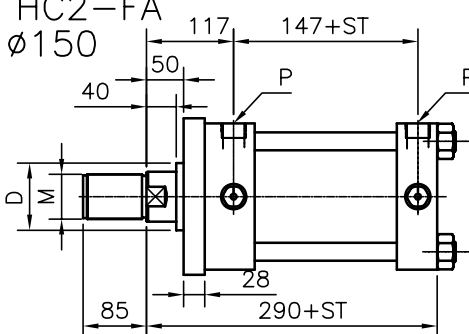
TYPE	ROD	M	D	P
A	$\phi 67$	M60*P2.0	$\phi 90$	Rc 1"
B	$\phi 85$	M76*P2.0	$\phi 110$	G 1"



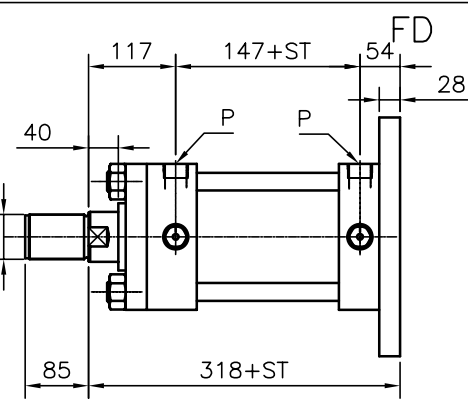
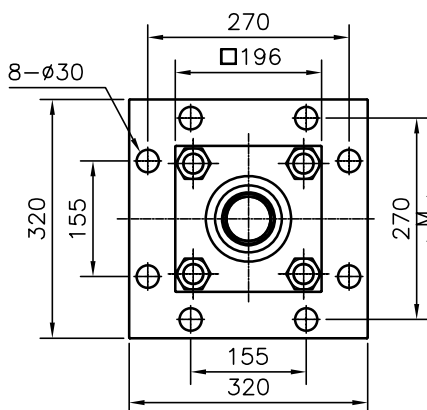
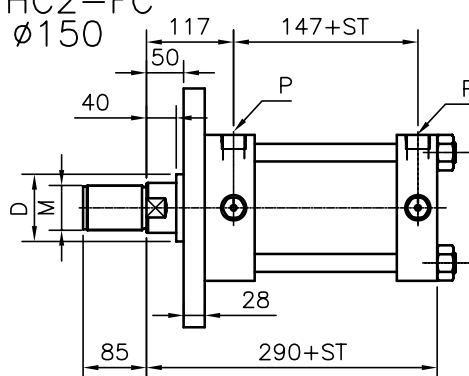
HC2-CA
 $\phi 150$



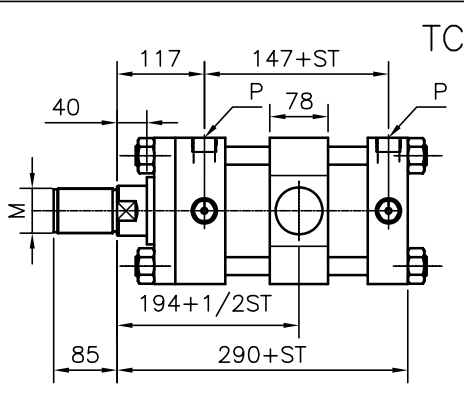
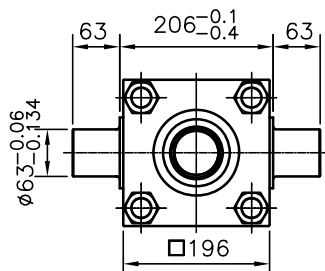
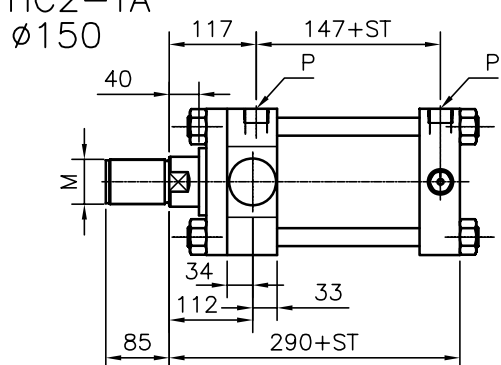
HC2-FA
 $\phi 150$



HC2-FC
 $\phi 150$



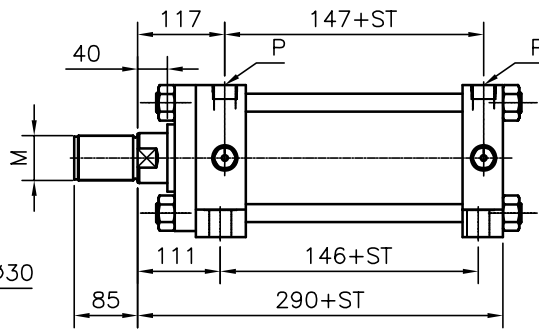
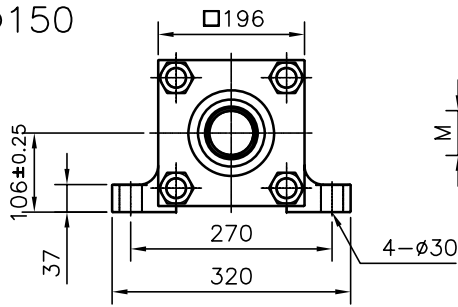
HC2-TA
 $\phi 150$



HC2-ø150

7/14MPa用

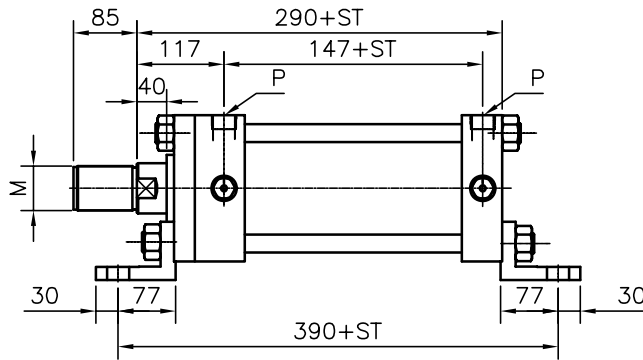
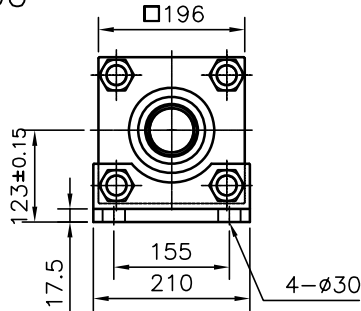
HC2-LA ø150



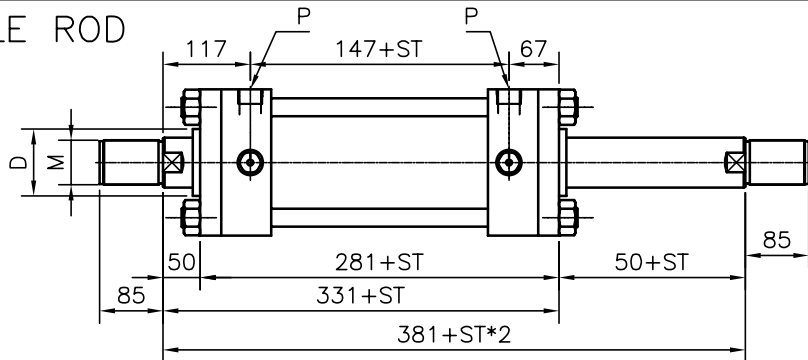
TYPE	ROD	M	D
A	ø67	M60*P2.0	ø90
B	ø85	M76*P2.0	ø110

P
Rc 1"
G 1"

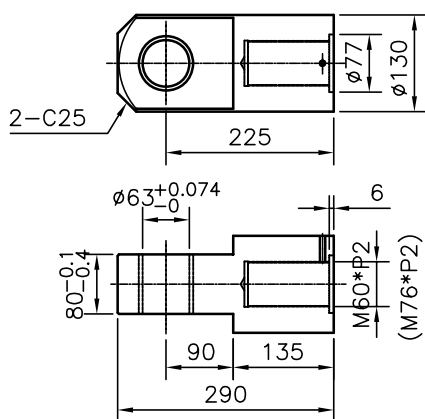
HC2-LB ø150



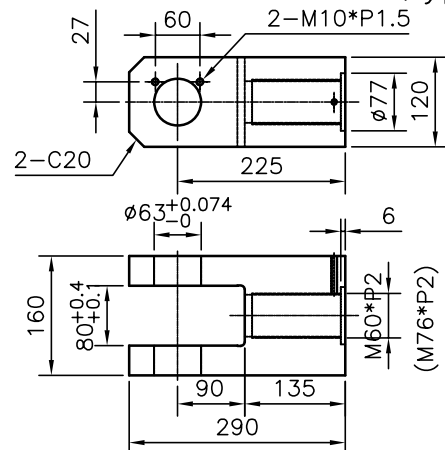
HC2-DOUBLE ROD ø150



HC2-ø150-I接頭 CLevis head,type I



HC2-ø150-Y接頭 CLevis head,type Y



油壓缸大概重量計算 Estimated weight of hyd.

EX. : FA , ST=200mm

weight= W1 + (W2 * ST)

= 76.2 + (9.6 * 2)

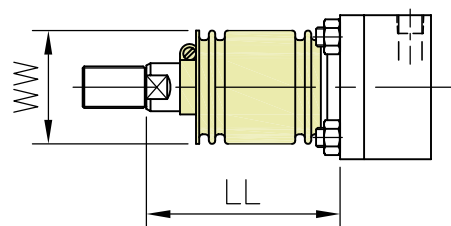
= 95.4Kg

	SD	FA	FB	FC	FD	CA	CB	LA	LB	TA	TC
RODø67=W1 (kg)	70.5	76.2	84.9	83.3	90.4	87.3	92.0	72.2	88.5	76.4	84.1
RODø85=W1 (kg)	84.1	79.8	88.5	86.9	95.6	90.9	95.6	80.2	92.1	80.0	87.7
W2 (kg/100mm)		RODø67=9.6					RODø85=11.2				

HC2

防塵套尺寸

ø40,ø50	1/2.5ST+X
ø63~ø100	1/3ST+X
ø125,ø150	1/3.5ST+X



內徑	ø40	ø50	ø63	ø70	ø80	ø90	ø100	ø125	ø150
WW	ø50	ø63	ø71	ø71	ø80	ø90	ø100	ø125	ø130
LL	47	50	61	61	55	60	60	69	70

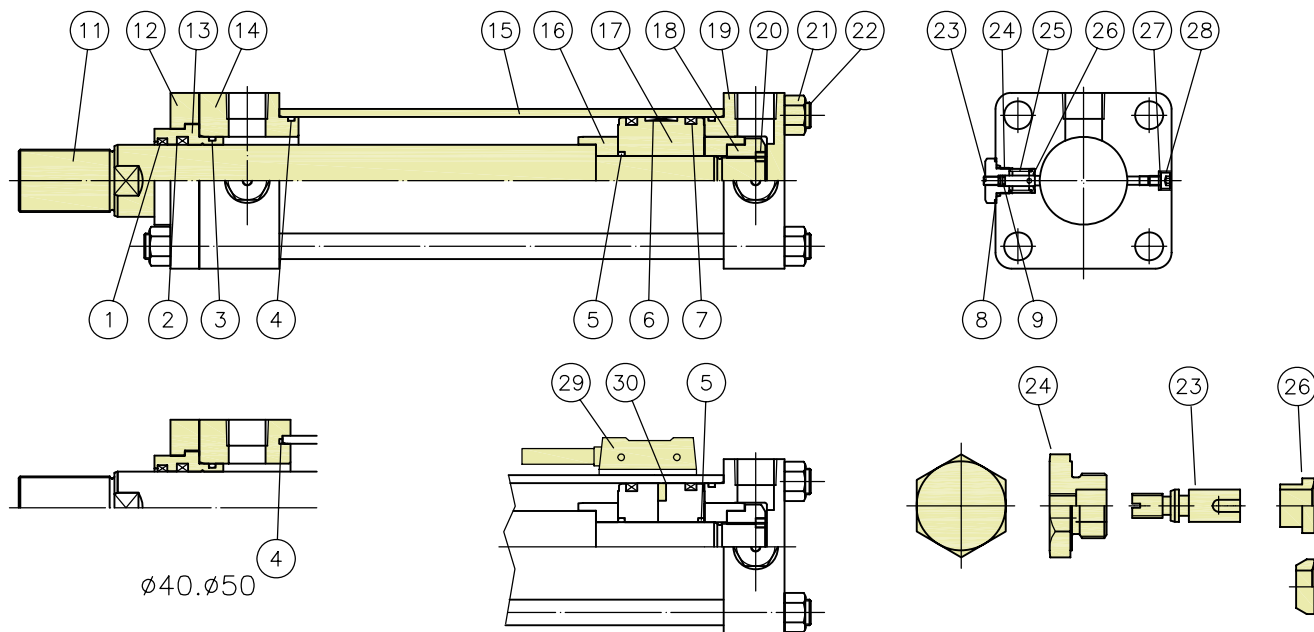
* 技術參數 Technical Data :

缸管內徑 Cylinder Bore mm	活塞桿徑 Rod Dia. mm	動作 Action	有效面積 Effective Area cm ²	出力 Output Power kgf				流量10L/分 之速度 Flow Rate at Speed 10L/min mm/sec	速度10mm/秒 之流量 Speed at Flow Rate 10mm/sec L/min
				30 kgf/cm ²	70 kgf/cm ²	140 kgf/cm ²	210 kgf/cm ²		
40		推力 Extend	12.6	377	880	1759	2639	132.9	0.8
	18	拉力 Retract	10.0	301	702	1403	2105	166.6	0.6
	22.4		8.6	259	604	1208	1811	193.6	0.5
50		推力 Extend	19.6	589	1374	2749	4123	85.1	1.2
	22.4	拉力 Retract	15.7	471	1099	2197	3296	106.4	0.9
	28		13.5	404	943	1887	2830	123.9	0.8
63		推力 Extend	31.2	935	2182	4364	6546	53.6	1.9
	28	拉力 Retract	25.0	750	1751	3502	5253	66.8	1.5
	35.5		21.3	638	1489	2978	4468	78.5	1.3
80		推力 Extend	50.3	1508	3519	7037	10556	33.2	3.0
	35.5	拉力 Retract	40.4	1211	2826	5651	8477	41.4	2.4
	45		34.4	1031	2045	4811	7216	48.6	2.1
100		推力 Extend	78.5	2356	5498	10996	16493	21.3	4.7
	45	拉力 Retract	62.6	1879	4384	8769	13153	26.7	3.8
	56		53.9	1671	3774	7547	11321	31.0	3.2
125		推力 Extend	122.7	3682	8590	17181	25771	13.6	7.3
	56	拉力 Retract	98.1	2943	6866	13732	20599	17.0	5.9
	70		84.2	2527	5896	11793	17689	19.8	5.0
150		推力 Extend	176.7	5301	12370	24740	37110	9.5	10.6
	67	拉力 Retract	141.5	4244	9902	19804	29706	11.8	8.5
	85		120.0	3599	8398	16796	25194	13.9	7.2
180		推力 Extend	254.5	7634	17813	35626	53438	6.6	15.2
	80	拉力 Retract	204.2	6126	14294	28588	42883	8.2	12.2
	100		175.9	5278	12315	24630	36945	9.5	10.5
200		推力 Extend	314.2	9425	21991	43982	65973	5.3	18.8
	90	拉力 Retract	250.5	7516	17538	35076	52614	6.7	15.0
	110		219.1	6574	15339	30678	46016	7.6	13.1
250		推力 Extend	490.9	14726	34361	68722	103084	3.4	29.4
	110	拉力 Retract	395.8	11875	27709	55418	83127	4.2	23.7
	140		336.9	10108	23586	47171	70757	5.0	20.2

上表中,HC2系列缸管內徑ø180,ø200,ø250無目錄如欲訂購,敬請洽詢

There will no ø180,ø200,ø250 bore dia etc., related data.

If want above mentioned size cylinder, please consult us.



* 零件名稱及材質表 Parts Description & Material List:

NO	名稱 Description.	材質 Material.	Q'TY	NO	名稱 Description.	材質 Material.	Q'TY
11	活塞桿 Piston Rod	機械構造用碳鋼 Carbon Steel for Mechanical Structure	1	21	六角螺帽 Tie Rod Nut	一般構造用軋鋼 Rolled Steel for General Structure	4
12	壓板 Cover	一般構造用軋鋼 Rolled Steel for General Structure	1	22	支桿 Tie Rod	一般構造用軋鋼 Rolled Steel for General Structure	4
13	銅襯 Bush	銅合金 Brass Alloy.	1	23	緩衝針 Cushion Adjustment	機械構造用碳鋼 Carbon Steel for Mechanical Structure	2
14	前蓋 Head	一般構造用軋鋼 Rolled Steel for General Structure	1	24	緩衝本體 Cushion Body	機械構造用碳鋼 Carbon Steel for Mechanical Structure	2
15	缸管 Cylinder Tube	機械構造用碳鋼管 Carbon Steel Pipe for Mechanical Structure.	1	25	彈簧 Spring	琴鋼線 Qin Steel Wire	1
16	緩衝環 Cushion Bush	球狀黑鉛鑄鐵 Black Lead Spherical Cast Iron	2	26	襯套 Bush	機械構造用碳鋼 Carbon Steel for Mechanical Structure	1
17	活塞 Piston	一般構造用軋鋼 Rolled Steel for General Structure	1	27	銅墊片 Washer	銅合金 Brass Alloy.	2
18	緩衝螺帽 Cushion Nut	機械構造用碳鋼 Carbon Steel for Mechanical Structure	1	28	六角承窩螺絲 Socket Head Cap Screw	機械構造用碳鋼 Carbon Steel for Mechanical Structure	2
19	後蓋 Cylinder Cap	一般構造用軋鋼 Rolled Steel for General Structure	1	29	感測器 Sensor		
20	防鬆螺絲 Set Screw	機械構造用碳鋼 Carbon Steel for Mechanical Structure	1	30	磁石 Magnet		

油封規格表 Specifications of Oil Seal:

NO	1	2	3	4	5	6	7	8	9
名稱	防塵油封 Dust Seal	軸心油封 Rod Seal	O型環 O Ring	O型環 O Ring	O型環 O Ring	耐磨片 Wear Ring	活塞油封 Piston Seal	O型環 O Ring	O型環 O Ring
材質	PU	PU	NBR	NBR	NBR	PTFE	PU	NBR	NBR
數量	1	1	1	2	1	1	2	1	1
內徑	ø,ø.w mm	ø,ø.w mm					ø,ø.w mm		
	A B	A B							
ø40	18-24-6	22.4-30.4-6	18-24-5	22.4-30-5	G-25	□40	P-16	40-2.5	40-30-6 P-14 P-5
ø50	22.4-30.4-6	28-36-6	22.4-30-5	28-35.5-5	G-30	□50	P-20	50-2.5	50-40-6 P-14 P-5
ø63	28-36-6	35.5-43.5-6	28-35.5-5	35.5-45-6	G-40	G-58	G-25	63-2.5	63-53-6 P-14 P-5
ø80	35.5-43.5-6	45-53-6.5	35.5-45-6	45-55-6	G-50	G-75	G-30	80-2.5	80-70-6 P-14 P-5
ø100	45-53-6.5	56-64-6.5	45-55-6	56-66-6	G-60	G-95	P-38	100-2.5	100-85-9 P-14 P-5
ø125	56-64-6.5	70-80-8	56-66-6	70-80-6	G-75	G-120	G-45	125-.25	125-112-9 P-18 P-7
ø150	67-75-6.5	85-95-8	67-77-6	85-100-9	G-90	G-145	G-55	150-2.5	150-136-9 P-18 P-7