

液压缸 RO

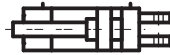
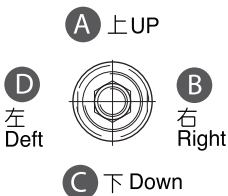
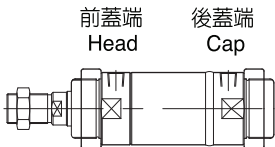


圓油油壓缸特性資料 Specification

氣壓缸內徑 Bore sizes of cylinder(mm)	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125	
缸管材質 Material of cylinder bareel	鋼管 Carbon steel STKM-13C OR ST52/白鐵管 Stainless tubes SUS 304						
使用壓力範圍 The range of pressure(MPa)	0.3-14MPa(3-140kg/cm ²) / 另有高壓可特殊訂製, 請來電洽詢						
使用溫度範圍 The range of temperature(°C)	NBR/PU{-25°~+80°(C°)}/VITON{-10°~150°(C°)}						
使用速度範圍 The range of speed(mm/sec)	8~300(mm/sec)/另有低摩擦高速油封選用(1000mm以上/sec),請來電洽詢						
標準衝程活塞(PM)的長度,長衝程活塞與緊繫模式請參閱註1	30	35	35	50	60	70	
各缸徑最大容許衝程 STROKE .mm Max.Permissible	參閱有關軸心挫曲與缸體固定形式技術資料						
衝程之容許公差/Tolerance of stroke	衝程/STROKE	100 以下	100~250	250~630	631~1000	1001~1600	1601以上
JIS B 8354 B級/Refer to Righ Table	容許差/Tolerance	0~+0.8	0~+1.0	0~+1.25	0~+1.4	0~+1.6	0~+1.8
活塞桿螺紋加工精度/Accuracy of Threading at Rod End	JIS 6g/6H(相當JIS 2級)						

RO-B-N-063-A-A-035-N-0100-N-N-AST000-N

1 2 3 4 5 6 7 8 9 10 11 12

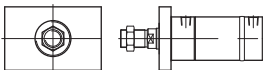
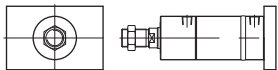
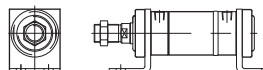
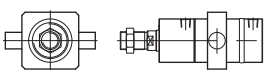
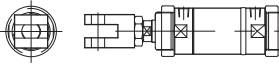
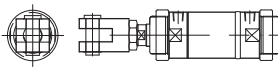
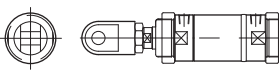
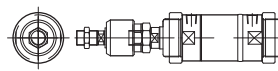
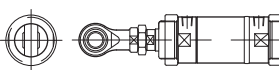
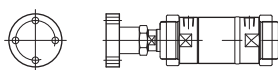
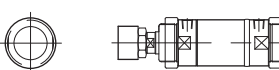
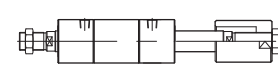
1	型式 / TYPE	B: 車牙型 B: Standard type			A:平尾形型 A:CA TYPE		
		C:CA型 C:CA type			CB:平尾形型 CB:CB TYPE		
		D: 雙軸型 D: Double-Rod type					
2	磁石/MEANET	R: 內加磁石 (適用Ø40~Ø125) N:沒有 R: with magnet inside(Applicable to Ø40~Ø125) N:No symbol					
3	鋼徑/外徑 CYLINDER TUBES	Ø40/Ø50	Ø50/Ø60	Ø63/Ø73	Ø80/Ø95	Ø100/Ø114	Ø125/Ø140
	不銹鋼缸徑/外徑 STAINLESS TUBES	Ø40/Ø48	Ø50/Ø60	Ø63/Ø73	Ø80/Ø95	Ø100/Ø114	Ø125/Ø145
備註:本系列鋼管與後蓋均採用焊接式做為主要連結方式 加磁石系列使用不鏽鋼管與鐵製後蓋採用鎖牙式作為主要連結方式,鋼管基數會有所變化 如有其他需求歡迎來電與業務人員洽詢							
4	油封選用 SEAL SYMBOL 油封材質/Seal material			適用作動油種類 Kind of fluit			
				一般礦物性作動油 Pertoleum- Based fluid	水乙二醇 Water- Glycol fluid	磷酸酯油 Phosphate- Ester fluid	O/W作動油 Water in oil fluid
	A PU Polyurethone rubber	○	×	×	△	△	
	B NBR Nitrile rubber	○	○	×	○	○	
	C VITON Fluoro elastomer	○	×	○	○	○	
備註:允許使用 ○ 不允許使用 × 請與我們洽詢 △ 另有其他還有特殊材質油封,歡迎來電洽詢 Note:allowable ○ unallowable × consult us △							
5	入油口位置填入 Port position	前蓋端 Head	A:上(標準型)/B:右/C:下/D:左 A:UP(Standard)/B:Right/C:Down/D:Left				
		後蓋端 Cap	A:上(標準型)/B:右/C:下/D:左 A:UP(Standard)/B:Right/C:Down/D:Left				
		A=AA / B=BB / C=CC / D=DD E=AB / F=AC / G=AD / H=BA I=BC / J=BD / K=CA / L=CB M=CD / N=DA / O=DB / P=DC					
							

RO

Series

圓型油壓缸採購指南

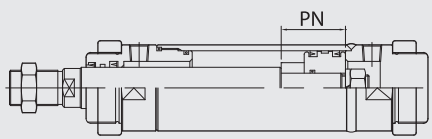
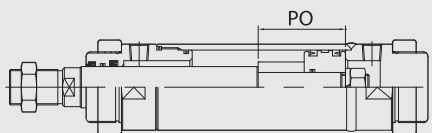
14Mpa Hydraulic Cylinders How to Order

6	軸心/ROD	缸 徑	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
		標 準	Ø20	Ø25	Ø35	Ø40	Ø50	Ø60
		最 大	Ø25	Ø30	Ø40	Ø50	Ø70	Ø80
		緩衝軸心	Ø20	Ø25	Ø35	Ø40	Ø50	Ø60
7	緩衝位置 Cushioning Valve Position	N: 無緩衝(標準型) / B:兩端緩衝 / X:前蓋緩衝 / Y:後蓋緩衝 N: NO symbo / B:Double side cushion / X:Rod-cover side cushion / Y:Head-cover side cushion						
		備註:本系列緩衝之緩衝還經過特殊設計,使得有緩衝調整範圍加長,效果更佳優化,緩衝螺絲正逆旋轉都可停止,不會產生脫落情形緩沖需加長時,型式請參閱說明2,如有疑問請洽詢						
8	行程/STROKE	填入需要之衝程 Max Permissible stroke						
備註:標準品最大衝程,內徑Ø40~Ø125衝程為1499mm,長衝程訂製時,因考量前蓋與活塞側向支撐力,另外因考量油壓缸固定形式與軸心撓曲度等等問題,需在計算強度或參閱技術資料或敬請與我們洽詢或參閱說明 (1) (2)								
9	缸體 固定方式 BORE ACCESSORY	名 稱 DESCRIPTION	記號 SYMBOL	略 圖 CONFIGURATION	名 稱 DESCRIPTION	記號 SYMBOL	略 圖 CONFIGURATION	
		前蓋矩形法蘭 Rectabgular flange at cylinder head	FA		後蓋矩形法蘭 Rectabgular flange at cylinder cup	FB		
		前後端凸耳形 Foot rounding side end angles	LB		U型搖擺座 U-shaped swing seat	TC		
		備註:缸體固定如有其它方式可繪製圖面或與我們營業人員洽詢 Note: If the cylinder is fixed in other ways, you can draw a sketch or contact our sales staff						
10	軸心 用配件 ROD ACCESSORY	名 稱 DESCRIPTION	記號 SYMBOL	略 圖 CONFIGURATION	名 稱 DESCRIPTION	記號 SYMBOL	略 圖 CONFIGURATION	
		Y型接頭 Rod Clevis	HY		Y型接頭附 插銷 Rod Clevis With Pin	YP		
		I型接頭 I Rod end mounting	HI		浮動接頭 Compensating Joint	KG		
		魚眼接頭 Oscillating Eye	PH		T型接頭 T Rod end mounting	HT		
		焊接接頭 H Rod end mounting	HH		可調螺帽 Adjustble nut	AST		
		備註 : 軸心固定如有其它方式,可繪製草圖或與我們營業人員洽詢 Note : If the axis is fixed in other ways, you can draw a sketch or contact our sales staff						
11	雙軸 可調行程	填入需要的可調行程 AST mm 無記號:沒有 / NO Symbol Adjustble stroke						
12	近接開關 SENSOR SWITCH	無記號:無裝置(標準型)/B:兩端近接開關/X:近接在前/Y:近接在後/T:近接*3/U:近接*4 N:NO symbo /B:Double side sensor switch/X:Rod-cover side sensor switch/ Y:Head-cover side sensor switch/T:sensor switch*3/U:sensor switch*4						

圓型油壓缸尺寸圖

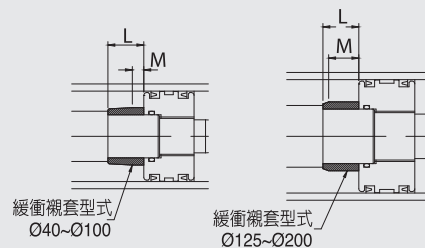
14Mpa RO Series Dimensions Features

[說明1] 長衝程活塞加長襯套尺寸與緊緊模式選用參考:

加中座模式(適用於缸徑 $\varnothing 40 \sim \varnothing 125$,行程1500以上)兩端加法蘭模式 (建議用於缸徑 $\varnothing 40 \sim \varnothing 125$,行程2000mm以上)

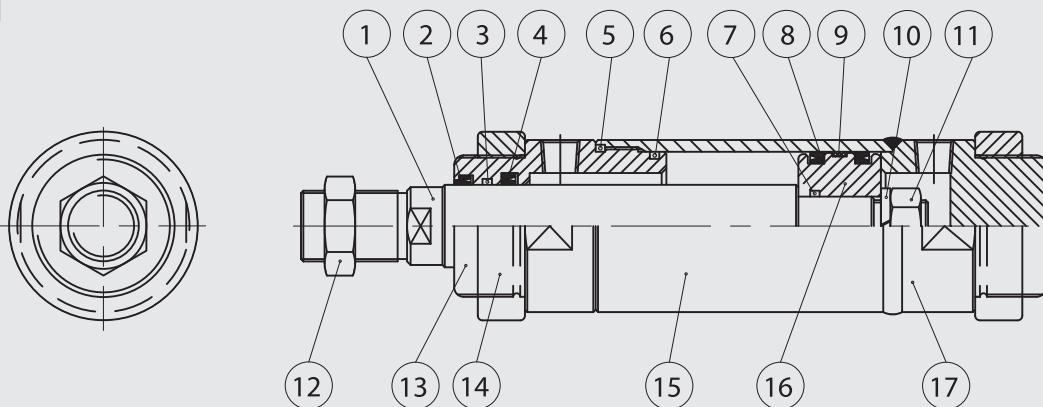
缸徑	PN	PO
$\varnothing 40$	60	90
$\varnothing 50$	70	100
$\varnothing 63$	70	100
$\varnothing 80$	100	150
$\varnothing 100$	100	150
$\varnothing 125$	100	210

[說明2] 緩衝標準距離尺寸:

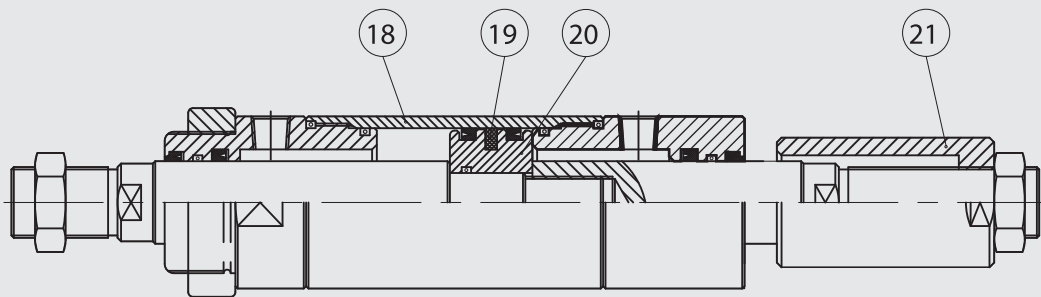
緩衝襯套型式
 $\varnothing 40 \sim \varnothing 100$ 緩衝襯套型式
 $\varnothing 125 \sim \varnothing 200$

缸 徑	L長度	M長度
$\varnothing 40 \sim \varnothing 63$	20	8
$\varnothing 80 \sim \varnothing 125$	25	8

ROB



RODR



NO	零件名 Part mane	數量 Quantity	NO	零件名 Part mane	數量 Quantity	NO	零件名 Part mane	數量 Quantity
1	活塞桿 Piston rod	1	8	PU活塞環 Piston packing	2	15	缸管本體 Cylinder tube	1
2	刮油環 Dust wiper	1	9	耐磨環 Wearing ring	1	16	活塞本體 Piston	1
3	O型環 Gasket	1	10	彈簧華司 Spring washer	1	17	後蓋 End cover	1
4	軸用油封 Rod packiog	1	11	螺帽 Nut	1	18	缸管本體 Cylinder tube	1
5	O型環 Gasket	1	12	軸心螺帽 Rod nut	1	19	磁石 Magnet	1
6	O型環 Gasket	1	13	前蓋 Rod cover	1	20	活塞本體 Piston	1
7	O型環 Gasket	1	14	前蓋螺帽 Cover nut	1	21	可調螺帽 Adjustable nut	1

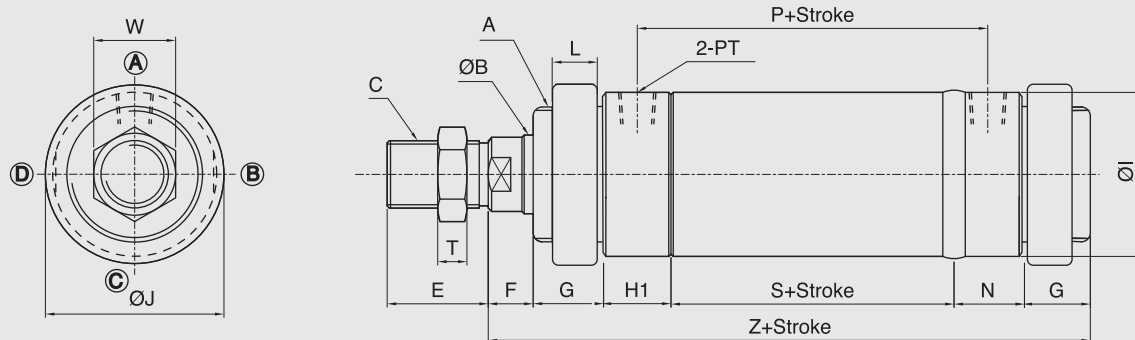
Ref. MA HA MT MTH SR MI, MK Pneu. MO HO FO SO RO CRO HRO HSO Hydra. accessories

ROB, ROD

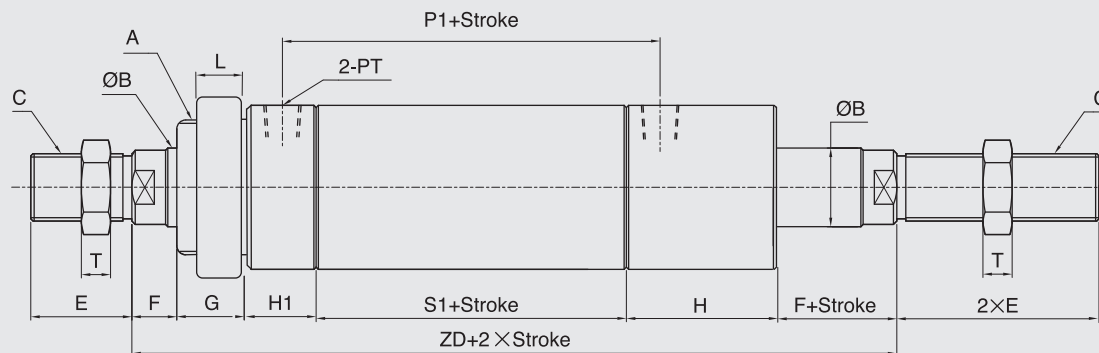
Series

圓型中型油壓缸尺寸圖 14Mpa RO Series Dimensional Features

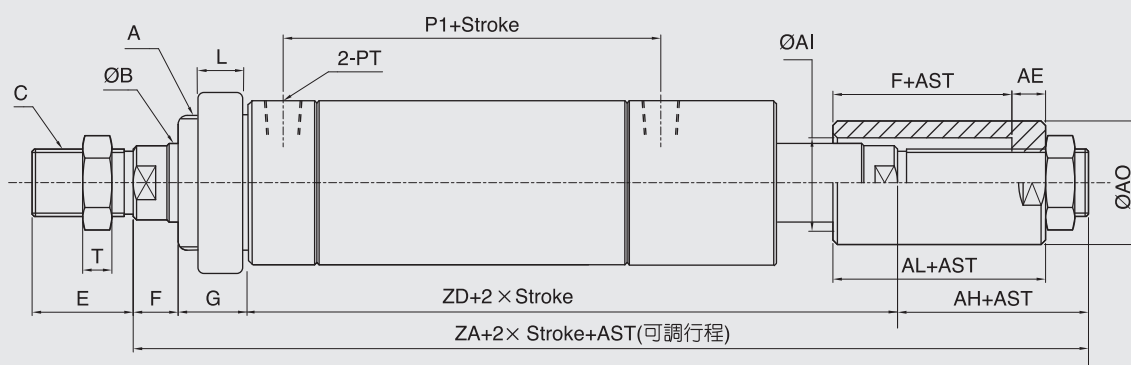
ROB RO+B(後蓋焊接式) TYPE



ROD RO+D(雙軸型) TYPE



ROD ROD+AST(雙軸型附可調帽) TYPE



ROB-ROD TYPE

A(可調帽) TYPE

BORE	SIZE	A	ØB	C	E	F	G	H	H1	ØI	J	L	N	P	P1	PM	PT	S	S1	T	W	Z	ZA	ZD	AH	AE	ØAI	ØAO	AL
		Ø40	M40XP2.0	20	M16XP1.5	28	17	25	50	25	50	55	15	25	86	107	30	3/8	61	82	8	23.5	178	246	216	30	20	25	40
	Ø50	M50XP2.0	25	M22XP1.5	40	20	25	50	25	60	65	15	30	96	112	35	3/8	66	87	13	32	191	267	227	40	25	35	50	45
	Ø63	M60XP2.0	35	M30XP1.5	45	20	30	60	30	73	80	20	35	105	125	35	3/8	70	95	13	41	215	295	255	40	25	45	60	45
	Ø80	M70XP2.0	40	M30XP1.5	45	20	30	60	30	95	90	20	40	127.5	150	50	1/2	90	120	13	41	240	325	280	45	30	50	70	50
	Ø100	M90XP2.0	50	M40XP2.0	55	25	30	60	30	114	110	20	40	147.5	180	60	1/2	110	150	15	55	265	365	320	45	30	60	90	55
	Ø125	M120XP2.0	60	M50XP2.0	70	30	30	70	40	140	150	20	50	172.5	210	70	3/4	125	170	15	65	305	420	370	50	35	70	100	65

備註：

- 軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
- RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
- 前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。
- AST為客戶指定之可調行程。

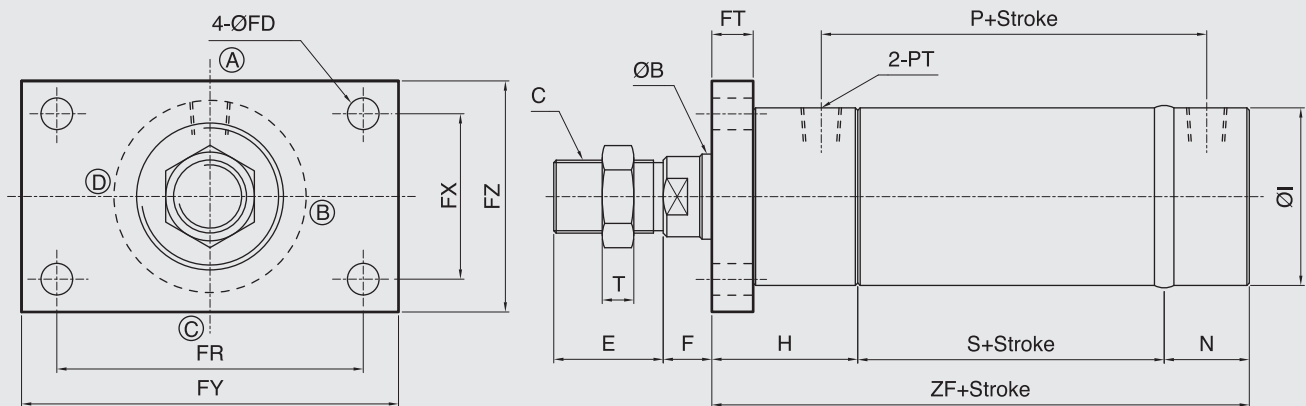
- The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
- When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.
- AST:Adjustable stroke by customer assignment.

圓型中型油壓缸FA板尺寸圖

14Mpa RO Series FA Dimensional Features

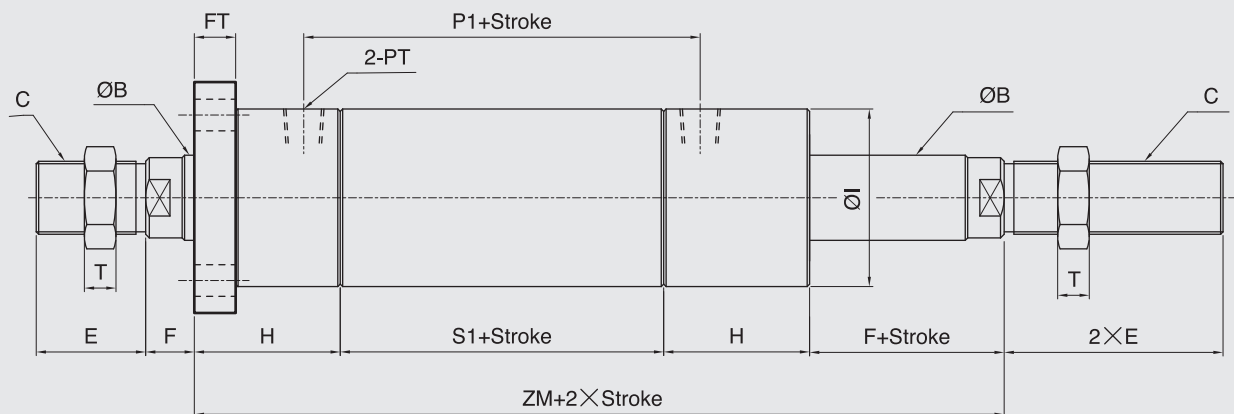
ROA

ROA(後平)+FA TYPE(後蓋焊接式)



ROD

ROD+FA TYPE



ROB-ROD TYPE

FA TYPE

BORE	SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZF	ZM	ØFD	FT	FR	FX	FY	FZ
Ø40		20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	136	199	12	11	93	50	115	72
Ø50		25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	146	207	14	17	110	56	150	85
Ø63		35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	165	235	14	17	126	68	155	95
Ø80		40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	95	120	13	195	260	18	20	152	75	190	120
Ø100		50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	210	295	20	20	180	100	220	140
Ø125		60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	245	340	24	30	222	122	280	170

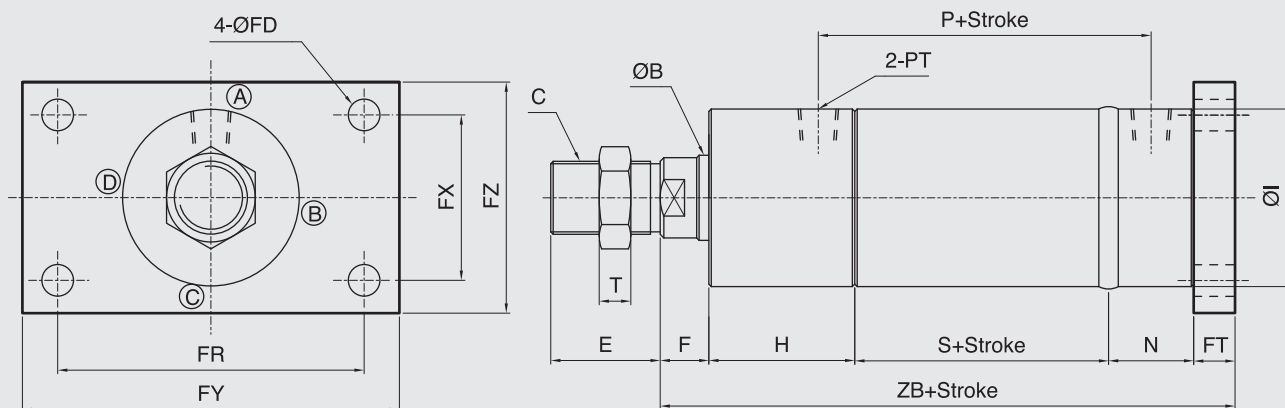
備註：

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- RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
- 前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

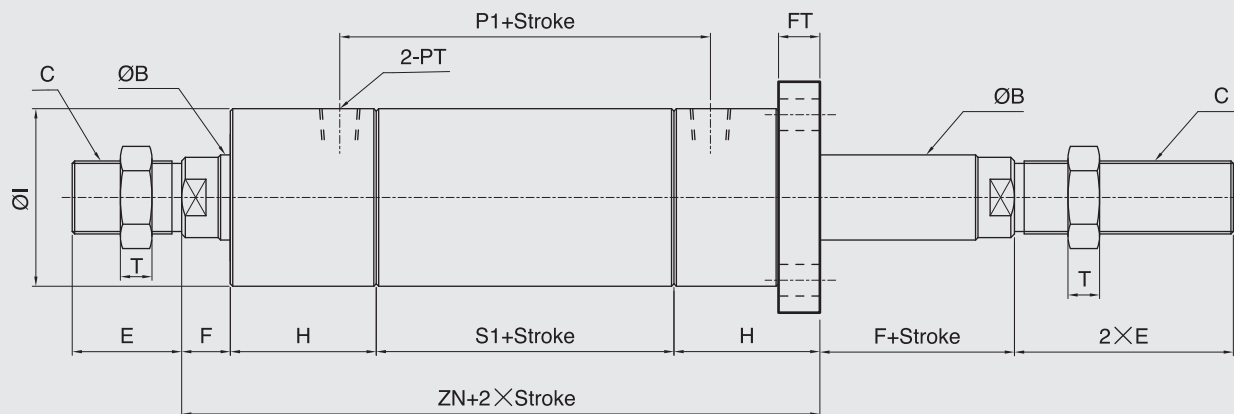
- The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
- When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸FB板尺寸圖 14Mpa RO Series FB Dimensional Features

ROB ROB+FB TYPE



ROD ROD+FB TYPE



ROB-ROD TYPE																	FB TYPE						
BORE	SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZB	ZN	ØFD	FT	FR	FX	FY	FZ
	Ø40	20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	164	199	12	11	93	50	115	72
	Ø50	25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	183	207	14	17	110	56	150	85
	Ø63	35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	202	235	14	17	126	68	155	95
	Ø80	40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	90	120	13	230	260	18	20	152	75	190	120
	Ø100	50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	255	295	20	20	180	100	220	140
	Ø125	60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	305	340	24	30	222	122	280	170

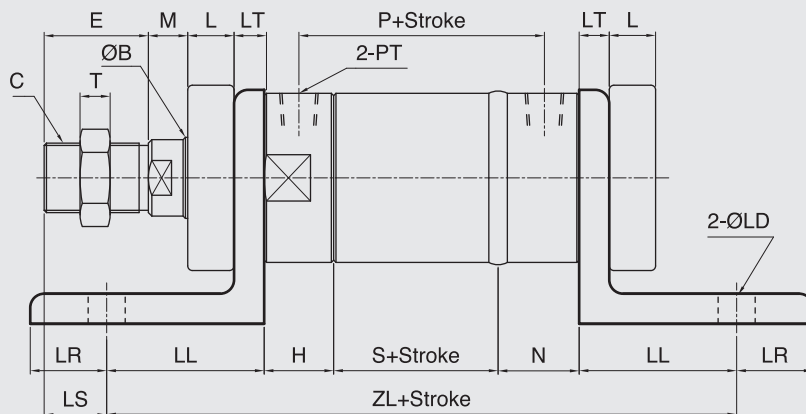
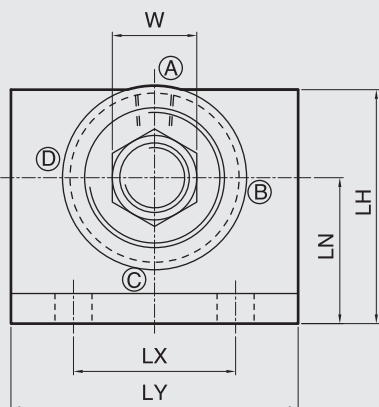
備註：

- 軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
- RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- RO系列行程未超過 1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
- 前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

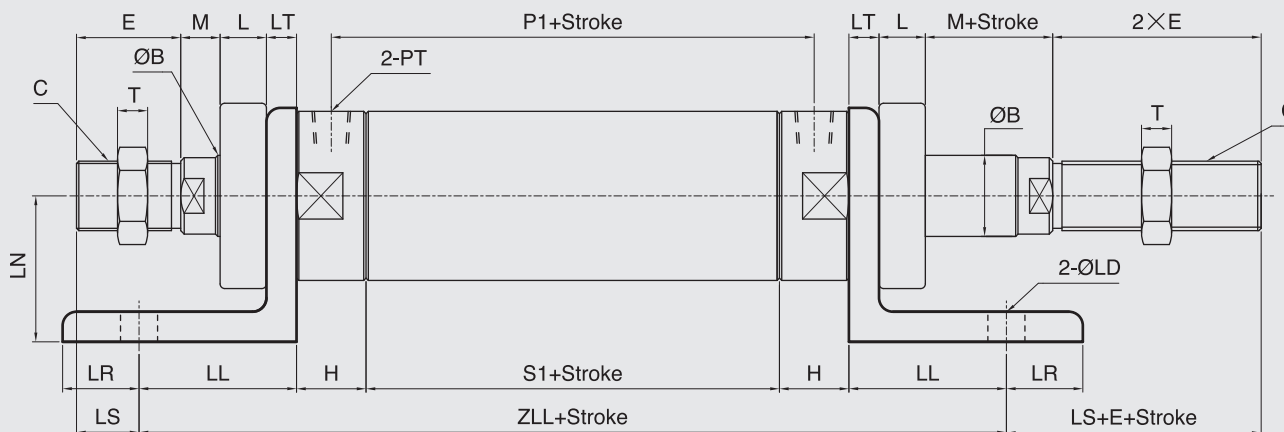
- The length and size of axis were not specifice to constructed must be according to our company design's modify without prior notice.
- The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
- When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸LB架尺寸圖 14Mpa RO Series LB Dimensional Features

ROB ROB+LB (架) TYPE



ROD ROD+LB TYPE



ROB-ROD TYPE

LB TYPE

BORE	SIZE	ØB	C	E	M	H	N	L	LS	P	P1	PM	PT	S	S1	T	ZL	ZLL	ØLD	LH	LN	LL	LR	LT	LX	LY
Ø40		20	M16XP1.5	28	18	25	25	15	25	86	107	30	3/8	61	82	8	201	222	12	75	47	45	30	9	60	88
Ø50		25	M22XP1.5	40	18	25	30	15	30	96	112	35	3/8	66	87	13	231	247	14	88	57	55	33	9	70	100
Ø63		35	M30XP1.5	45	17	30	35	20	29	105	125	35	3/8	70	95	13	271	291	16	101	63	68	33	13	70	124
Ø80		40	M30XP1.5	45	17	30	40	20	29	127.5	150	50	1/2	90	120	13	296	316	18	101	60	68	33	13	80	140
Ø100		50	M40XP2.0	55	20	30	40	20	40	147.5	180	60	1/2	110	150	15	320	350	18	140	80	70	35	15	90	144
Ø125		60	M50XP2.0	70	25	40	50	20	60	172.5	210	70	3/4	125	170	15	375	410	22	190	110	80	40	20	120	160

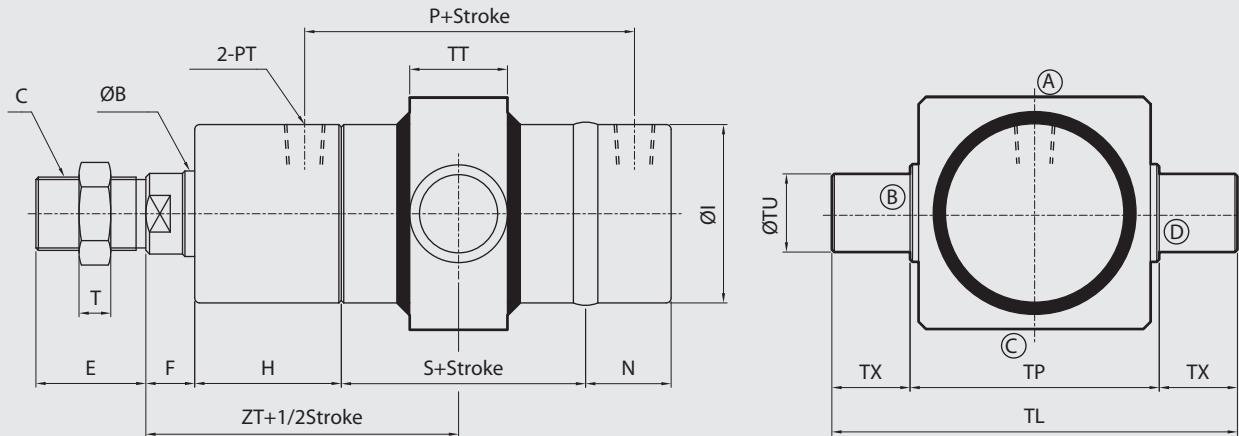
備註：

- 軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
- RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
- 前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型, W指其外徑。

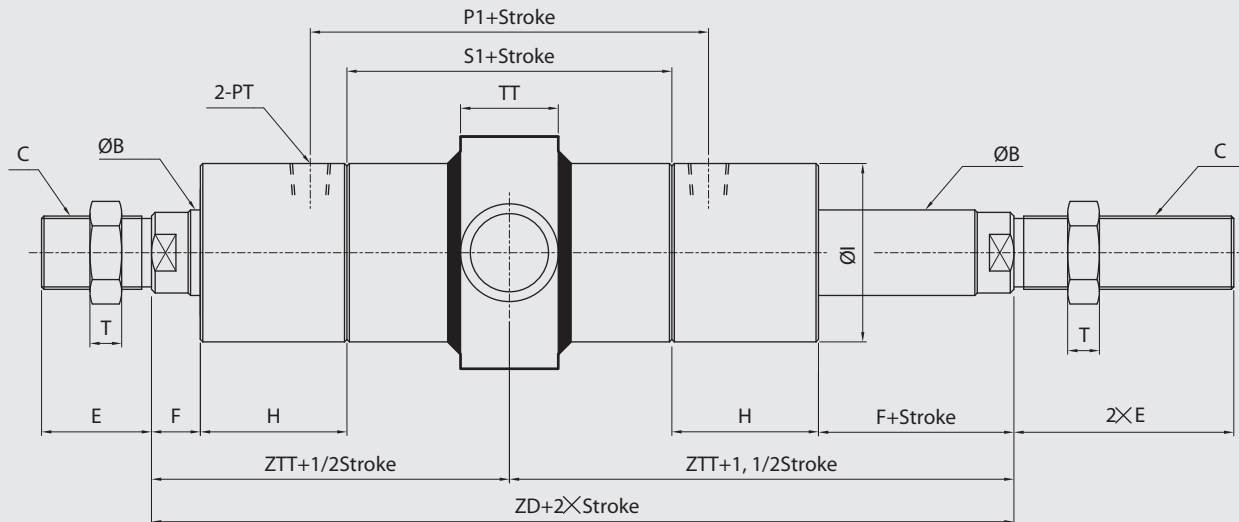
- The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
- When this series of stroke exceeds(includes) 1499mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- External diameter is round (W), when rod cover(ØJ) and rod nut (ØW) exceed M50.

圓型中型油壓缸TC尺寸圖
14Mpa RO Series TC Dimensional Features

ROA ROA+TC TYPE



ROD ROD+TC TYPE



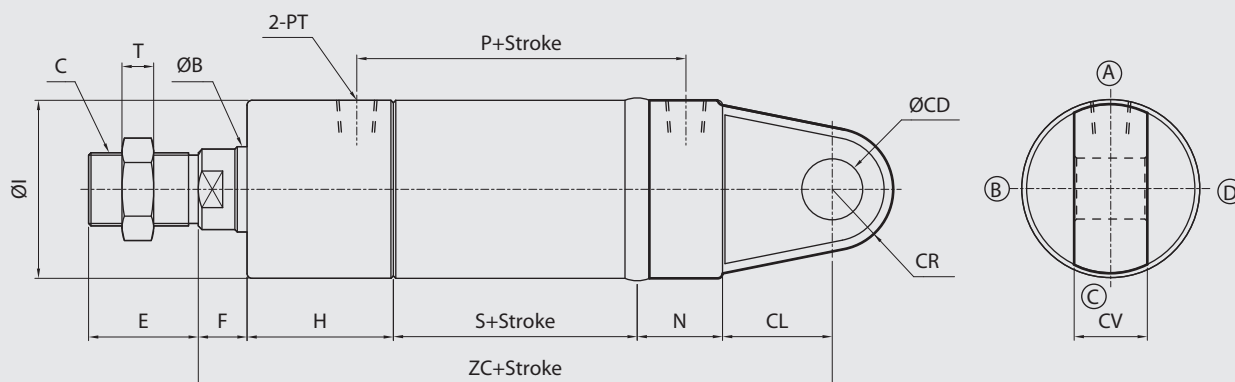
ROA-ROD TYPE																		TC TYPE					
BORE	SIZE	ØB	C	E	F	H	ØI	N	P	P1	PM	PT	S	S1	T	ZT	ZTT	ZD	ØTU	TL	TP	TT	TX
	Ø40	20	M16XP1.5	28	17	50	50	25	86	107	30	3/8	61	82	8	97.5	108	216	20	115	75	28	20
	Ø50	25	M22XP1.5	40	20	50	60	30	96	112	35	3/8	66	87	13	103	113.5	227	25	140	90	33	25
	Ø63	35	M30XP1.5	45	20	60	73	35	105	125	35	3/8	70	95	13	115	127.5	255	32	166	102	40	32
	Ø80	40	M30XP1.5	45	20	60	95	40	127.5	150	50	1/2	90	120	13	125	140	280	32	184	120	43	32
	Ø100	50	M40XP2.0	55	25	60	114	40	147.5	180	60	1/2	110	150	15	140	160	320	40	220	140	53	40
	Ø125	60	M50XP2.0	70	30	70	140	50	172.5	210	70	3/4	125	170	15	162.5	185	370	50	275	175	58	50

備註：

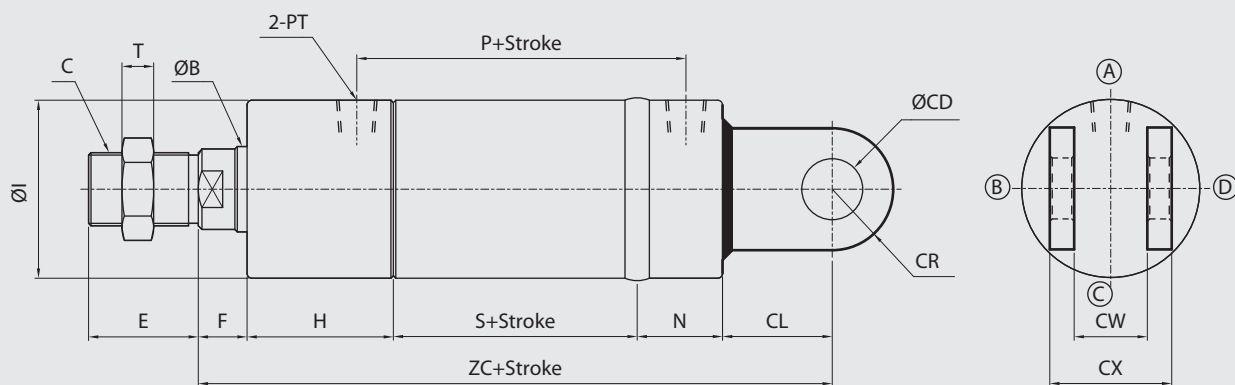
- 軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
- RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm 以上時,活塞長度(PM)請參閱特性資料表。
- 前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

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- When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

ROC ROC TYPE



ROCB ROCB TYPE



RO TYPE														CA,CB TYPE						
BORE	SIZE	ØB	C	E	F	H	ØI	N	P	PM	PT	S	T	ZC	ØCD	CL	CR	CV	CW	CX
	Ø40	20	M16XP1.5	28	17	50	50	25	86	30	3/8	61	8	178	16	25	18	25	26	41
	Ø50	25	M22XP1.5	40	20	50	60	30	96	35	3/8	66	13	201	20	35	25	25	26	46
	Ø63	35	M30XP1.5	45	20	60	73	35	105	35	3/8	70	13	230	25	45	30	30	31	56
	Ø80	40	M30XP1.5	45	20	60	95	40	127.5	50	1/2	90	13	260	30	50	30	35	36	66
	Ø100	50	M40XP2.0	55	25	60	114	40	147.5	60	1/2	110	15	295	35	60	35	40	41	81
	Ø125	60	M50XP2.0	70	30	70	140	50	172.5	70	3/4	125	15	345	50	70	50	55	56	106

備註：

- 1.軸心加大或縮小時如未註明長度尺寸時,依照本公司規定自行加工。
- 2.RO40系列行程超過 500mm以上時,軸心牙加大為M18*P1.5。
- 3.RO系列行程超過1499mm時,活塞(PM)長度依據規格表組裝,行程如超過1500mm以上時,活塞長度(PM)請參閱特性資料表。
- 4.前蓋螺帽(ØJ)與軸心螺帽(ØW)規格大於M50時,其外徑為圓型,W,J指其外徑。

- 1.The length and size of axis were not specific to constructed must be according to our company design's modify without prior notice.
- 2.The series stroke exceed 500mm (includes), axletree broaden be M18xP1.5.
- 3.When this series of stroke exceeds(includes) 1500mm, as see the property information for the length of the piston. Within 1499mm see the (PM) length of piston.
- 4.External diameter is round (W, J),when rod cover(ØJ) and rod nut (ØW) exceed M50.

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