

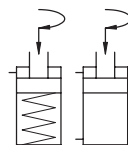
HPS 高壓轉角缸

High Pressure Swing Clamp Cylinder

• Bore: $\phi 25$ - $\phi 63$ mm • Pmax: 500kg/cm²

產品簡介

- 此型式油壓缸適用於夾持工件取放空間需保持靜空，方便工件取放及高壓夾持。
- 油壓缸夾持動作為下壓式，含有旋轉行程(請勿夾持工件)以及垂直下壓行程。
- 本產品使用德製油封及進口零件，缸體內壁經特殊加工處理表面光滑，確保使用性能及壽命。
- 最大充油速度請參考特性資料，請勿使用過大充油速度，以免迴轉過快，如有迴轉不確實，請安裝流量控制閥，降低充油速度。
- 壓板長度及使用壓力請參考P30所示，請勿任意超長使用。



Product Introduction

- The series of swing clamp cylinder is ideal for workpiece clamping which requires a sufficient space for convenient workpiece loading and unloading and high pressure clamping.
- It provides swing motion (do not clamp workpiece) and vertical hold down motion.
- The swing clamp cylinder employs Germany oil seal and imported parts. The inside surface of cylinder barrel is specially treated, featuring maximum smoothness, high performance and long service life.
- For maximum oil feeding speed, refer to specifications. Do not exceed oil feeding speed to avoid too high swing speed. In case improper swing speed occurs, it is suggested to equip with an additional oil flow control valve to reduce oil feeding speed.
- Refer to the dimensional drawing for proper swing arm length and operation pressure. Do not extend the swing arm is desired.



特性資料 Specifications

油缸內徑	Bore of cylinder	mm	$\phi 25$	$\phi 40$	$\phi 50$	$\phi 63$
活塞桿徑	Piston rod diameter	mm	$\phi 20$	$\phi 32$	$\phi 40$	$\phi 50$
轉角行程	Swing stroke	mm	7	8	11	9
垂直行程	Clamping stroke	mm	11	14	15	15
最大充油速度	Max oil filling speed	cc/s	3.2	10	18.4	27.7
下壓需求量	Downward clamping oil required	cc	3.2	10	18.4	27.7
回復需求量	Return oil required	cc	8.8	27.7	51	74.8
轉角方向	Rotating direction	順時針右轉 R或逆時針左轉 L Turn right R or turn left L				
轉角角度	Rotating angle	標準角度 90° Standard angle 90°				
最小操作壓力	Min operation pressure	40kg/cm ²				

訂購標示法 Ordering Code

HPS - 25 S A R × 90

↑ ↑ ↑ ↑ ↑ ↑

1 2 3 4 5 6

1	系列別 Series	HPS	
2	油缸內徑 Bore of cylinder	$\phi 25$. $\phi 40$. $\phi 50$. $\phi 63$	
3	作動方式 Acting type	單動	S: Single-acting
		雙動	D: Double-acting
4	安裝型式 Mounting type	全牙型	A: Threaded type
		底座型	B: 配管型 Line type
		Flange	C: 油路板型 Manifold type
5	轉角方向 Rotating direction	順時針右轉 R或逆時針左轉 L Turn right R or turn left L	
6	轉角角度 Rotating angle	標準角度 90 Standard angle 90°	

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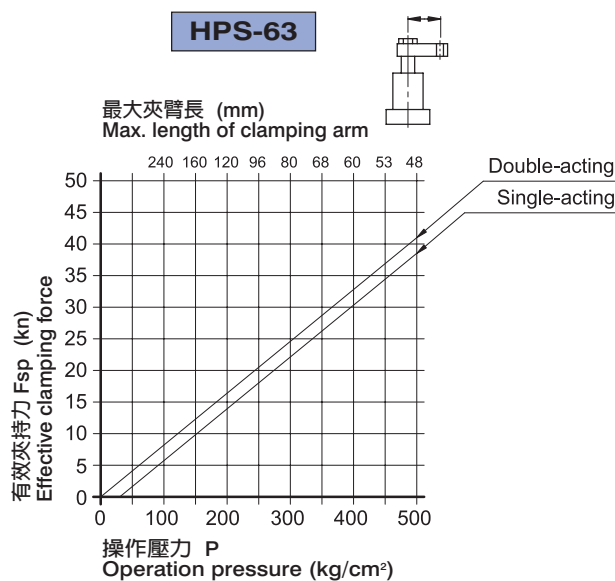
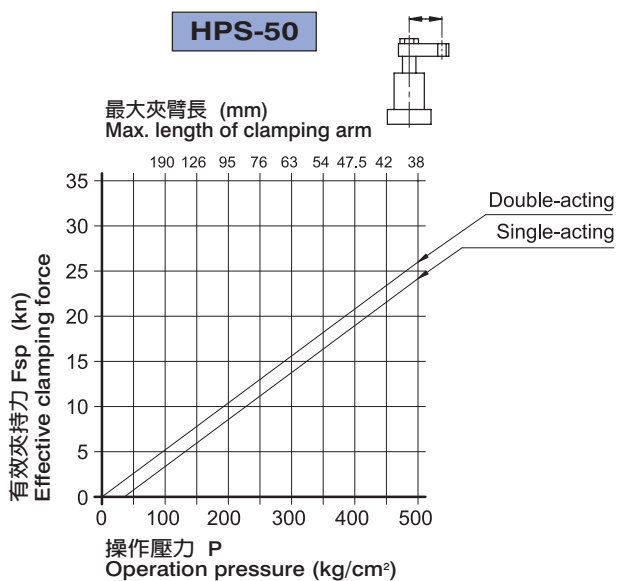
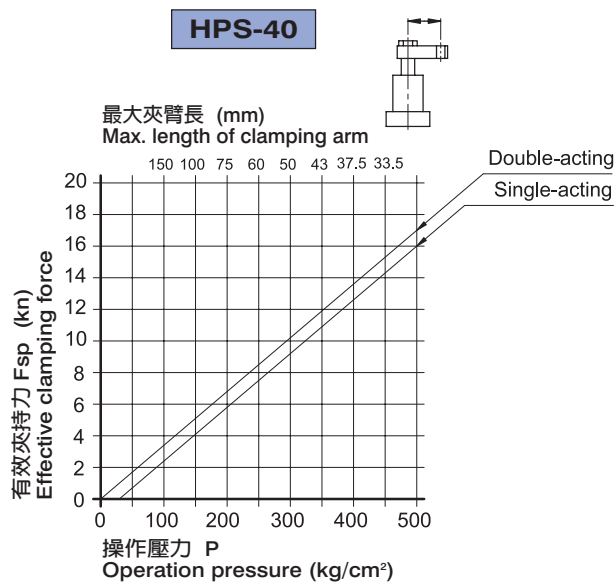
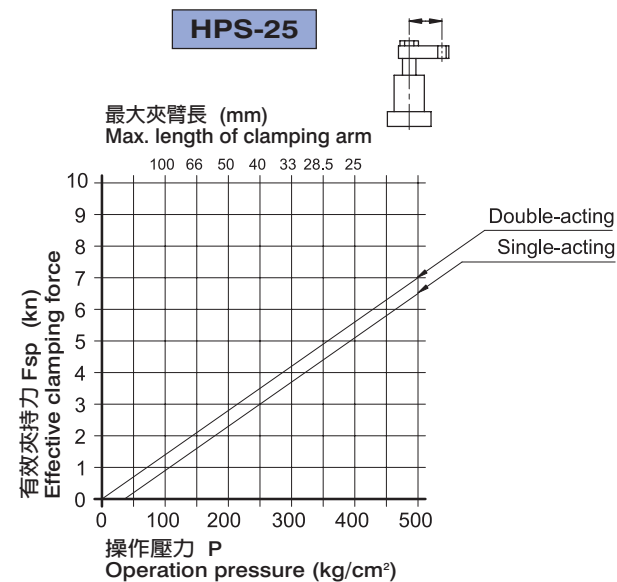
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有效夾持力FSP與使用壓力P對照圖

Comparison diagram between the effective clamping force
FSP and pressure P



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Single-acting

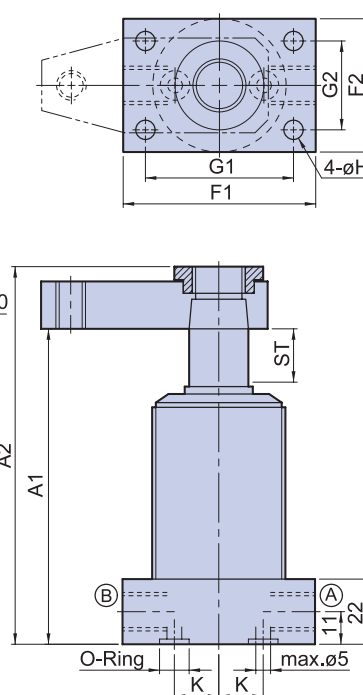
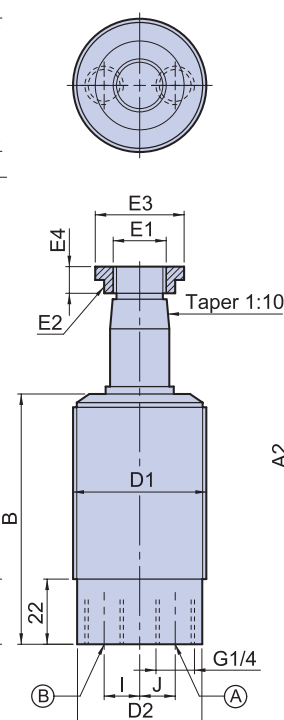
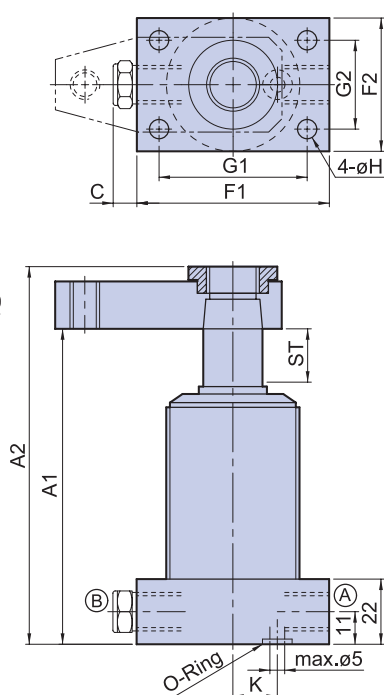
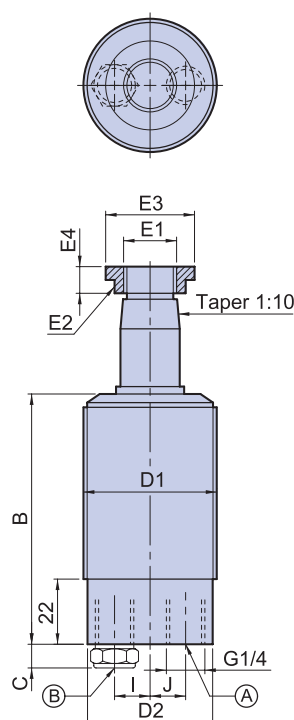
Double-acting

Threaded Type

Flange Type

Threaded Type

Flange Type



Ⓐ	夾持油孔 Clamping Port
Ⓑ	排氣孔 Vent port

Ⓐ	夾持油孔 Clamping Port
Ⓑ	放鬆油孔 Unclamping Port

Dimensional table

UNIT:mm

ITEM \ MODEL	HPS-25	HPS-40	HPS-50	HPS-63
ST: Swing/Clamping	18:7/11	22:8/14	26:11/15	24:9/15
A1	105.5	119.5	138	142
A2	126.5	147.5	172	182
B	84.5	94.5	110	116
C	8	8	8	8
D1	M45 x 1.5	M60 x 1.5	M80 x 2.0	M90 x 2.0
D2	$\phi 43$	$\phi 58$	$\phi 77$	$\phi 88$
E1	M18 x 1.5	M28 x 1.5	M35 x 1.5	M45 x 1.5
E2	$\phi 23.5$	$\phi 33.5$	$\phi 43.5$	$\phi 55.5$
E3	30	40	55	68
E4	9	10	11	12
F1	65	85	100	115
F2	45	63	80	90
G1	50	65	80	90
G2	30	44	60	68
H	$\phi 6.5$	$\phi 8.5$	$\phi 13.5$	$\phi 16$
I	12	12.5	19	25.5
J	12	19.5	26.5	34
K	15	28	31	37.5
O-Ring	S7	S7	S7	S7

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