

HYDRAULICS



HYDRAULIC



PRESSURE SWITCHES

PRE-FILL VALVES

TWOWAY® HYDRAULIC

油電壓力開關訊號輸出指示燈顯示 PRESSURE SWITCHES(With Indicator LED)



無接點式油電壓力開關 NPN PRESSURE SWITCHES



滿油閥 PRE-FILL VALVES



油電壓力開關 PRESSURE SWITCHES

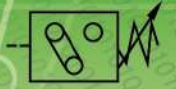


壓差顯示器 DIFFERENTIAL PRESSURE INDICATOR



油電壓力開關系列

Pressure Switch Series



- 壓力直讀式，標準型
Direct Read-out, Standard type
- 接管孔口: 1/4"PT [PF, NPT]內牙
Connection Port : 1/4"PT [PF, NPT]
- 詳細內容請參閱頁數 1
For details see page 1

DNA



- 一般型
General Type
- 接管孔口: 1/4"PT [PF, NPT]內牙
Connection Port : 1/4"PT [PF, NPT]
- 詳細內容請參閱頁數 2
For details see page 2

DNB



- 壓力直讀式，標準型
Direct Read-out, Screw-in type
- 油路承製閥孔，直接插入安裝
Custom manifold designed for direct mount or direct integration
- 詳細內容請參閱頁數 3
For details see page 3

DNC



- 壓力直讀式，面板固定型
Direct Read-out, Panel mounting type
- 接管孔口: 1/4"PT [PF, NPT]內牙
Connection Port : 1/4"PT [PF, NPT]
- 詳細內容請參閱頁數 4
For details see page 4

DNF



- 壓力直讀式，標準型
Direct Read-out, Heavy-duty micro switch
- 依安裝需求，可當配管式或貼壁式用
Suitable for threaded type or subplate mounting
- 詳細內容請參閱頁數 5
For details see page 5

DNL

油電壓力開關系列

Pressure Switch Series



- 一般型疊加式
Sandwich Type
- 配合ISO-03, ISO-05 [CETOP3,5]電磁閥
Operated with ISO-03, ISO-05 [CETOP 3,5] Solenoid Valves
- 詳細內容請參閱頁數 6
For details see page 6

DMB



- 壓力直讀式，疊加式
Direct Read-out, Sandwich Type
- 配合ISO-03, ISO-05 [CETOP3.5]電磁閥
Operated with ISO-03, ISO-05 [CETOP 3.5] Solenoid Valves
- 詳細內容請參閱頁數 7
For details see page 7

DNM



- 一般型隔膜式
General Diaphragm Type
- 油水氣體多用途
Applicable for oil water and air
- 詳細內容請參閱頁數 8
For details see page 8

DNP



- 壓力直讀式，24VDC電晶體感應開關
Direct Read-out, 24VDC Transistor Sensing Pressure Switch
- 接管孔口:1/4"PT [PF, NPT]內牙
Connection Port : 1/4"PT [PF, NPT]
- 詳細內容請參閱頁數 9
For details see page 9

PSA



- 一般型，24VDC電晶體感應開關
General Type, 24VDC Transistor Sensing Pressure Switch
- 接管孔口:1/4"PT [PF, NPT]內牙
Connection Port : 1/4"PT [PF, NPT]
- 詳細內容請參閱頁數 10
For details see page 10

PSB

油電壓力開關系列

Pressure Switch Series



- 貼壁壓力直讀式・24VDC電晶體感應開關
Direct Read-out, subplate, 24VDC Transistor Sensing Pressure Switch
- 貼壁型安裝
Subplate mounting type
- 詳細內容請參閱頁數 11
For details see page 11

PSL



- 一般小型壓力開關
Miniature type
- 詳細內容請參閱頁數 12
For details see page 12

TC



- 壓差顯示器
Differential Pressure Indicator
- 詳細內容請參閱頁數 13
For details see page 13

TW



SVF

- 滿油閥
Pre-Fill valves(flange-clamped type)
- 詳細內容請參閱頁數 16
For details see page 16



SCF



SPF

- 法蘭式滿油閥
Pre-Fill valves(flange-clamped type)
- 詳細內容請參閱頁數 17
For details see page 17

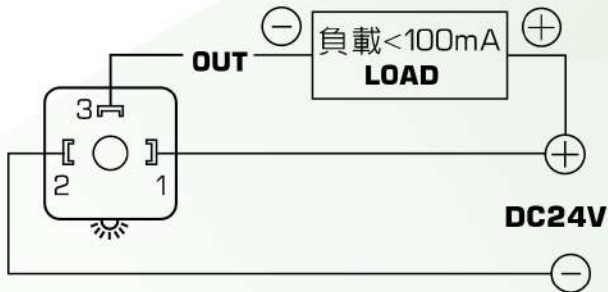


STF



配電圖 WIRING DIAGRAM

Model : PSA, PSB, PSL



電晶體容量 Transistor Capacity

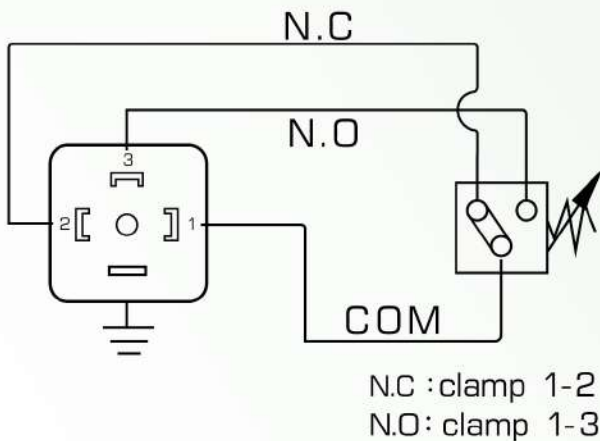
Series : PSA, PSB, PSL

負載 / Load : 24VDC < 100mA

壽命 / Lifetime : 80,000,000次

油電符號 Graphic Symbol

Model : DNA, DNB, DNC, DNF, DNL, DNP, DNM, DMB, TC



微動開關容量 Switch Capacity

Series : DNL

負載 / Load : 10A 125-250VAC
0.3A 125VDC, 0.15A 250VDC
壽命 / Lifetime : 2,000,000次

Series : DNA, DNB, DNC, DNF, DNP, DNM, DMB, TC

負載 / Load : 22B: 3A 125-250VAC
0.5A 30VDC, 0.15A 125VDC
06i : 24VDC, 250VAC < 0.6A
壽命 / Lifetime : 1,000,000次



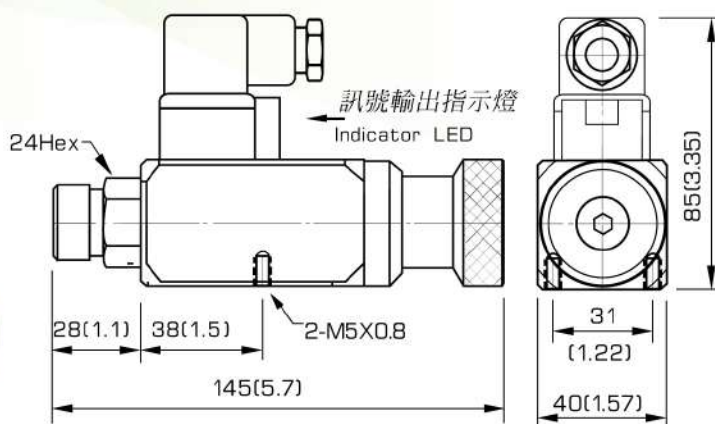
壓力範圍 PRESSURE RANGE

型式 Model	02K	08K	20K	30K	40K	50K	70K	100K	150K	200K	250K	280K	360K	400K
PSA						●		●		●		●		●
PSB					●		●		●		●			
PSL						●		●		●		●		●
DNA				●	●		●	●	●		●		●	
DNB			●		●		●		●		●			
DNC					●		●	●	●		●		●	
DNF					●		●	●	●		●		●	
DNP	●	●	●											
DNL						●		●		●		●		●
DNM					●		●	●	●		●		●	
DMB					●		●		●		●			
TC						●		●	●		●		●	

DNA 油電壓力開關 Pressure Switch



尺寸圖 / Dimension mm(inches)



選購型號 / How to order

DNA-250K-22B

①

②

③

① 型式 / Model

壓力直讀式・標準型
Direct Read-out, Standard type

② 壓力範圍 / Pressure Adj. Range

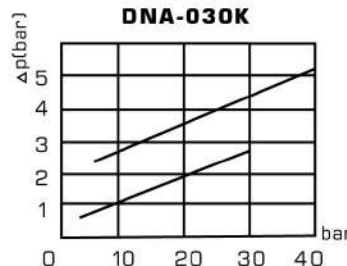
型式 Model	壓力調整範圍 bar Pressure Adj. Range bar	最高耐壓 bar Max. Pressure bar	測定壓力 bar Set Pres. bar	重量 kg Weight
030K	4 ~ 30	80	14	1.1
040K	8 ~ 40	150	20	1.1
070K	10 ~ 70	150	30	1.1
100K	15 ~ 100	250	50	1.1
150K	20 ~ 150	250	70	1.1
250K	40 ~ 250	400	100	1.1
360K	50 ~ 360	400	200	1.1

③ 22B:無指示燈 Without indicator LED

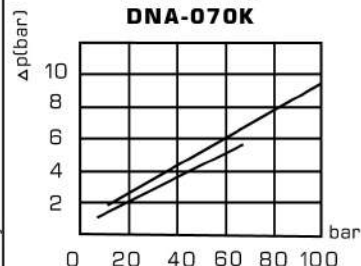
06i:附指示燈 With indicator LED

性能圖 / Performance Curves

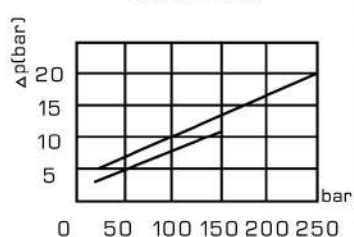
DNA-040K
DNA-030K



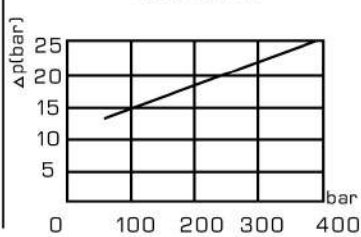
DNA-100K
DNA-070K



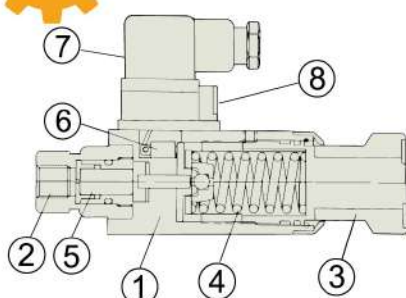
DNA-250K
DNA-150K



DNA-360K

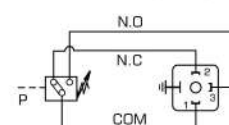


剖面圖 / Schematic Cross-Section



1 本體(鑄鐵) Housing (Casting-Iron)	5 柱塞 Piston
2 接管孔口(1/4"PT/NPT/PF) Connection Port (1/4"PT/NPT/PF)	6 微動開關 Micro switch
3 壓力調整鈕 Pressure Adj. Knob	7 電氣接頭 Electrical connector
4 彈簧 Spring	8 訊號輸出指示燈 Indicator LED

油電符號表/Graphic Symbol



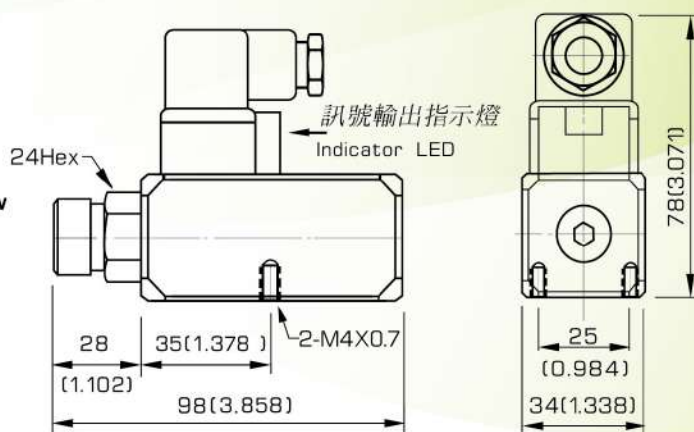
N.O.=Normally open
N.C.=Normally close

Rating:
22B:3A 250VAC, 0.5A 30VDC
06i:24VDC, 250VAC<0.6A

DNB 油電壓力開關 Pressure Switch



尺寸圖 / Dimension mm(inches)



選購型號 / How to order

DNB-250K-22B

① ② ③

1 型式 / Model

一般型 General type

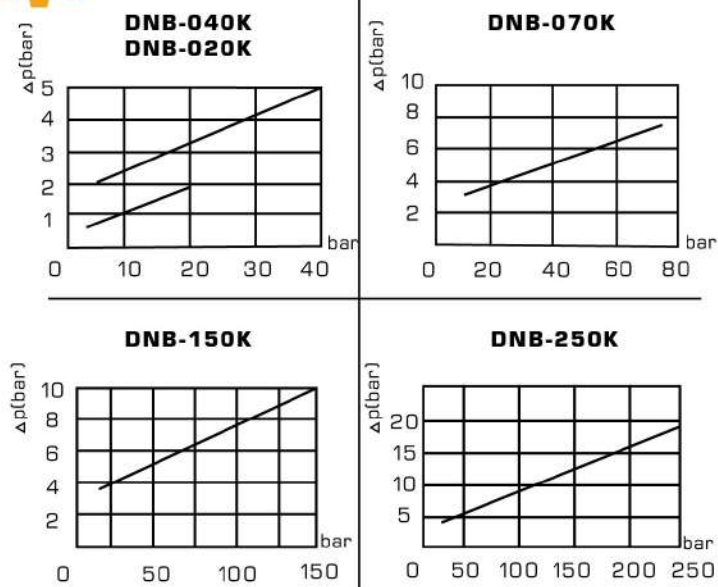
2 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 bar Pressure Adj. Range bar	最高耐壓 bar Max. Pressure bar	測定壓力 bar Set Pres. bar	重量 kg Weight
020K	2~20	80	10	0.6
040K	8~40	150	20	0.6
070K	10~70	150	30	0.6
150K	20~150	250	70	0.6
250K	40~250	250	100	0.6

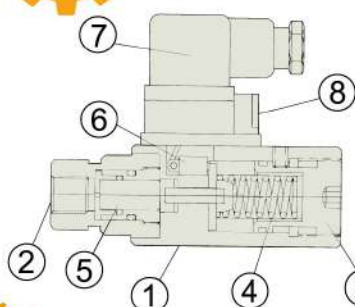
3 22B:無指示燈 Without indicator LED

06i:附指示燈 With indicator LED

性能圖 / Performance Curves

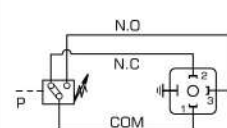


剖面圖 / Schematic Cross-Section



1 本體(鑄鐵) Housing (Casting-Iron)	5 柱塞 Piston
2 接管孔口(1/4"PT/NPT/PF) Connection Port (1/4"PT/ NPT/PF)	6 微動開關 Micro switch
3 壓力調整鈕 Pressure Adj. Knob	7 電氣接頭 Electrical connector
4 彈簧 Spring	8 訊號輸出指示燈 Indicator LED

油電符號表 / Graphic Symbol



N.O.=Normally open
N.C.=Normally close

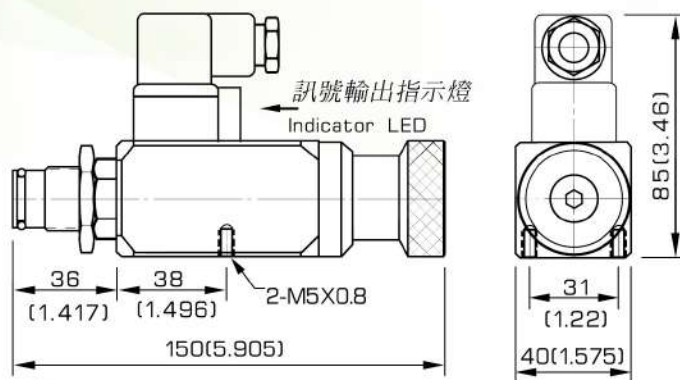
Rating:
22B:3A 250VAC, 0.5A 30VDC
06i:24VDC, 250VAC<0.6A

DNC 油電壓力開關 Pressure Switch

尺寸圖 / Dimension mm(inches)



調壓固定螺絲
Locking screw



選購型號 / How to order

DNC-250K-22B

①

②

③

1 型式 / Model

壓力直讀式・插式型
Direct Read-out, Screw-in type

2 壓力範圍 / Pressure Adj. Range

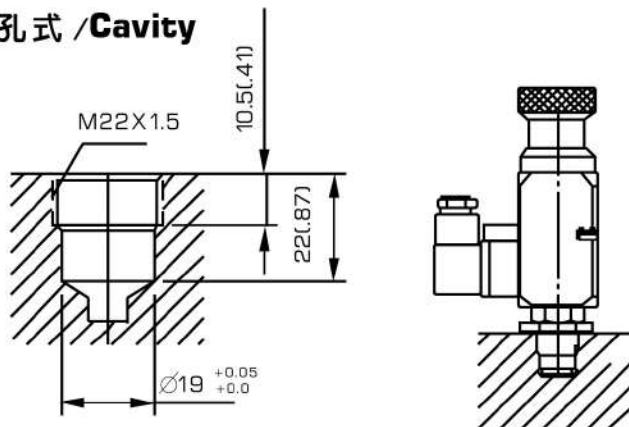
型式 Model	壓力調整範圍 bar Pressure Adj. Range bar	最高耐壓 bar Max. Pressure bar	測定壓力 bar Set Pres. bar	重量 kg Weight
040K	8 ~ 40	80	20	1.1
070K	10 ~ 70	150	30	1.1
100K	15 ~ 100	150	50	1.1
150K	20 ~ 150	250	70	1.1
250K	40 ~ 250	400	100	1.1
360K	50 ~ 360	400	200	1.1

3 22B: 無指示燈 Without indicator LED
06i: 附指示燈 With indicator LED

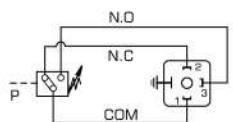
性能圖 / Performance Curves

請參閱 DNA 表列
See Table DNA Series.

插孔式 / Cavity



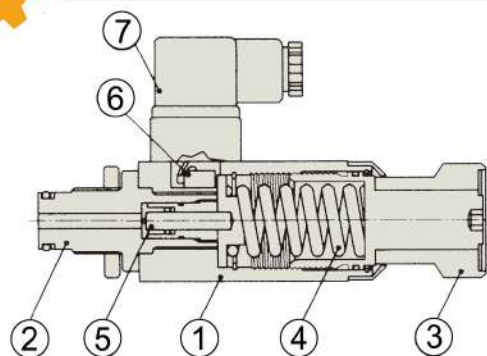
油電符號表 / Graphic Symbol



N.O=Normally open
N.C=Normally close

Rating:
22B: 3A 250VAC, 0.5A 30VDC
06i: 24VDC, 250VAC < 0.6A

剖面圖 / Schematic Cross-Section

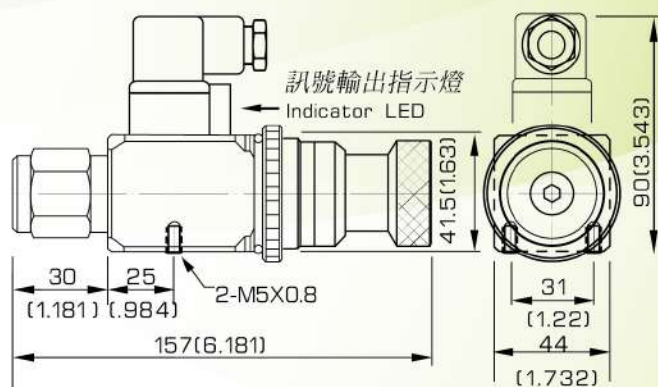


1 本體(鑄鐵) Housing (Casting-Iron)	5 伺服柱塞 Servo-Piston
2 接管孔口(1/4"PT) Connection Port (1/4"PT)	6 微動開關 Micro switch
3 壓力調整鈕 Pressure Adj. Knob	7 電氣接頭 Electrical Connector
4 彈簧 Spring	

DNF 油電壓力開關 Pressure Switch



尺寸圖 / Dimension mm(inches)



選購型號 / How to order

DNF-250K-22B

①

②

③

① 型式 / Model

壓力直讀式·面板固定型
Direct read-out, Panel mounting type

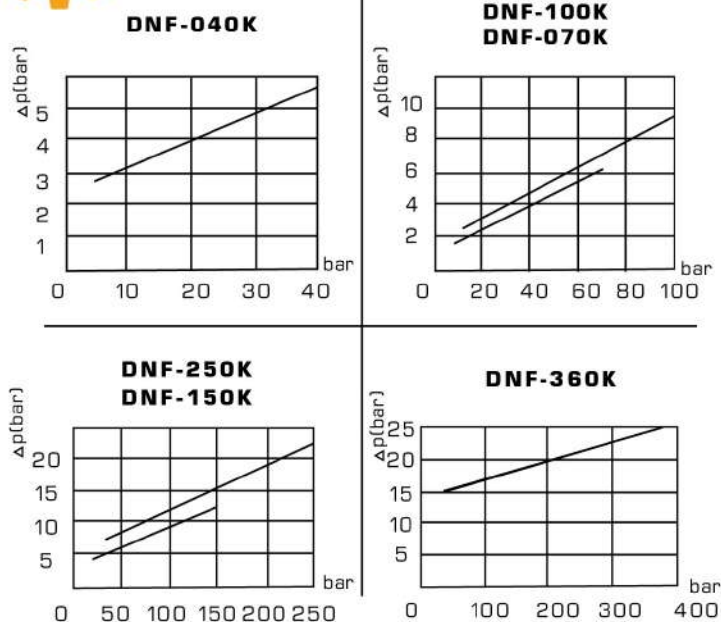
② 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 Pressure Adj. Range bar	最高耐壓 Max. Pressure bar	測定壓力 Set Pres. bar	重量 Weight kg
040K	6 ~ 40	150	20	1.2
070K	10 ~ 70	150	30	1.2
100K	15 ~ 100	200	50	1.2
150K	20 ~ 150	250	70	1.2
250K	40 ~ 250	400	100	1.2
360K	50 ~ 360	400	200	1.2

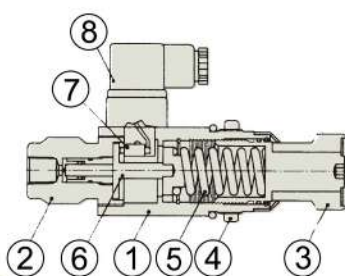
③ 22B: 無指示燈 Without indicator LED 06i: 附指示燈 With indicator LED



性能圖 / Performance Curves

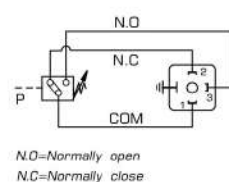


剖面圖 / Schematic Cross-Section



1 本體(鑄鐵) Housing (Casting-Iron)	5 彈簧 Spring
2 接管孔口(1/4" PT) Connection Port (1/4" PT)	6 伺服柱塞 Servo-Piston
3 壓力調整鈕 Pressure Adj. Knob	7 微動開關 Micro switch
4 面板固定螺帽 Knob Set Screw	8 電氣接頭 Electrical Connector

油電符號表 / Graphic Symbol

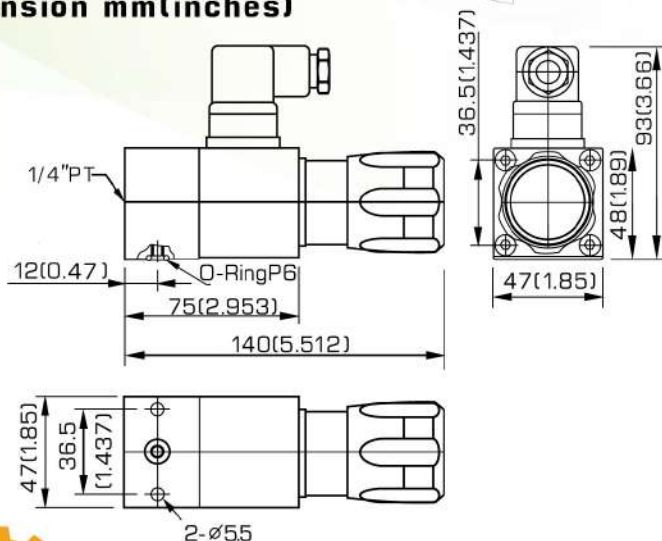


Rating:
22B: 3A 250VAC, 0.5A 30VDC
06i: 24VDC, 250VAC < 0.6A

DNL

油電壓力開關 Pressure Switch

尺寸圖 / Dimension mm(inches)



選購型號 / How to order

DNL-100K-21B

①

②

③

1 型式 / Model

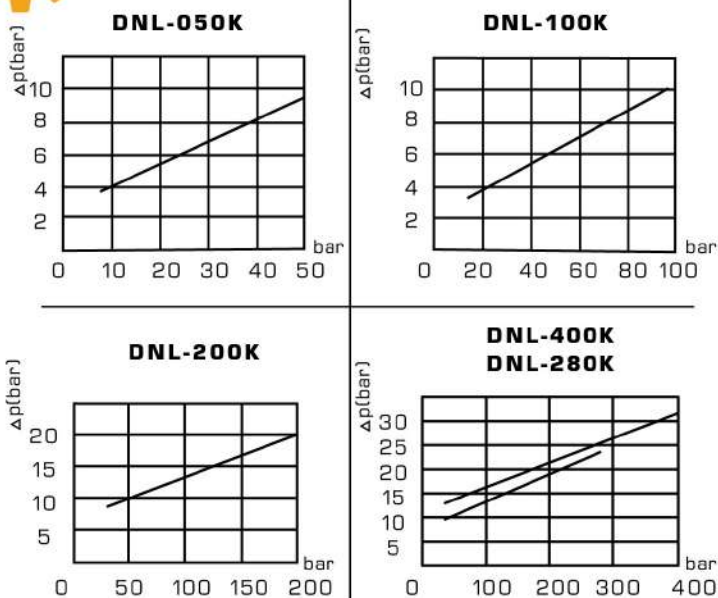
壓力直讀式・標準型
Direct read-out, Heavy-duty micro switch

2 壓力範圍 / Pressure Adj. Range

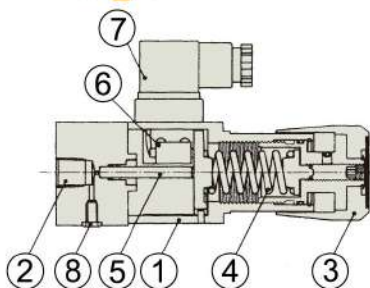
型式 Model	壓力調整範圍 bar Pressure Adj. Range bar	最高耐壓 bar Max. Pressure bar	測定壓力 bar Set Pres. bar	重量 kg Weight
050K	8~50	200	25	1.0
100K	15~100	300	45	1.0
200K	30~200	300	100	1.0
280K	40~280	350	110	1.0
400K	50~400	400	180	1.0

3 設計資料 / Design Number

性能圖 / Performance Curves

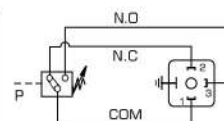


剖面圖 / Schematic Cross-Section



1 本體(鑄鐵) Housing (Casting-Iron)	5 伺服柱塞 Servo-Piston
2 接管孔口(1/4"PT) Connection Port (1/4"PT)	6 微動開關 Micro switch
3 壓力調整鈕 Pressure Adj. Knob	7 電氣接頭 Electrical Connector
4 彈簧 Spring	8 貼壁油口 O-ring P6 (M5XP0.8)

油電符號表/Graphic Symbol



N.O.=Normally open
N.C.=Normally close

Rating:
21B:3A 250VAC, 0.5A 30VDC

DMB 油電壓力開關 Pressure Switch



選購型號 / How to order

DMB-2P250A-Pi

① ② ③ ④ ⑤ ⑥ ⑦

① 型式 / Model

疊加式 Sandwich Type

② 配合閥規格 / For use with solenoid valves

2	ISO-4401-03-02 NFPA-D03 CETOP-03 DIN 24340 NG6
3	ISO-4401-05-04 NFPA-D05 CETOP-05 DIN 24340 NG10

③ 壓力檢出管路 / Pressure Transforms Line

A: Aport
B: Bport
P: Pport
w: A&B port

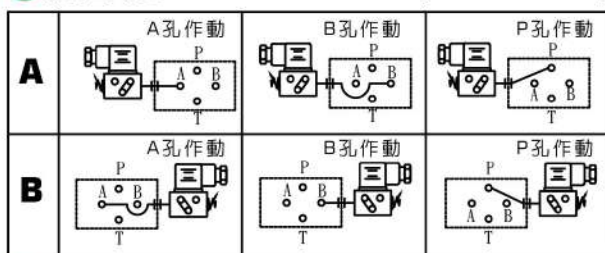
④ 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 Pressure Adj. Range bar	測定壓力 Set Pres. bar
040K	6 ~ 40	20
070K	8 ~ 70	30
150K	15 ~ 150	70
250K	40 ~ 250	100

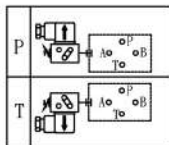
⑦ B: 無指示燈 / Without indicator LED

i: 附指示燈 / With indicator LED

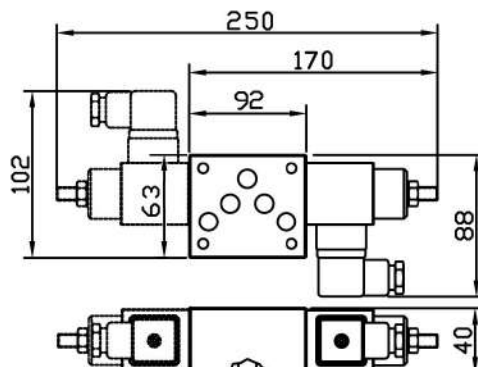
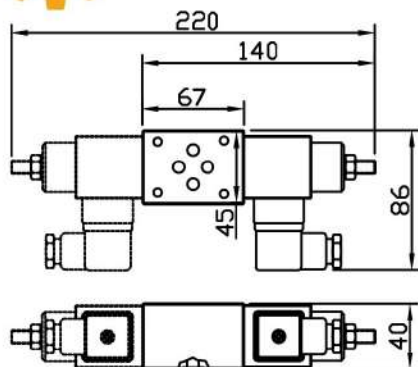
⑤ 調壓向位 / Position of the pressure adj.



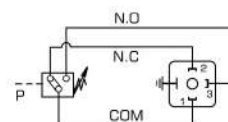
⑥ 電器插頭座位 / Position of the electrical connector



尺寸圖 / Dimension mm(inches)



油電符號表 / Graphic Symbol



N.O=Normally open
N.C=Normally close

Rating:
B: 3A 250VAC, 0.5A 30VDC
i: 24VDC, 250VAC < 0.6A



性能圖 / Performance Curves

型式 Model	重量 kg Weight
DMB-02P(A.B)	0.55 Kgs
DMB-02W	0.8 Kgs

For use with ISO 03/CETOP 3/NFPA D03
Standard Solenoid Valves

型式 Model	重量 kg Weight
DMB-03P(A.B)	0.9 Kgs
DMB-03W	1.5 Kgs

For use ISO 05/CETOP 5/NFPA D05
Standard Solenoid Valves

性能圖請參考DNB系列
See Table DNB Series

DNM

油電壓力開關 Pressure Switch



選購型號 / How to order

DNM-2P250A-Pi

① ② ③ ④ ⑤ ⑥ ⑦

① 型式 / Model

壓力直讀式・疊加式
Direct Read-out.Sandwich Type

② 配合閥規格 / For use with solenoid valves

2- ISO-4401-03-02
NFFA-D03
CETOP-D3
DIN 24340 NG6

3- ISO-4401-05-04
NFFA-D05
CETOP-D5
DIN 24340 NG10

③ 壓力檢出管路 / Pressure Transforms Line

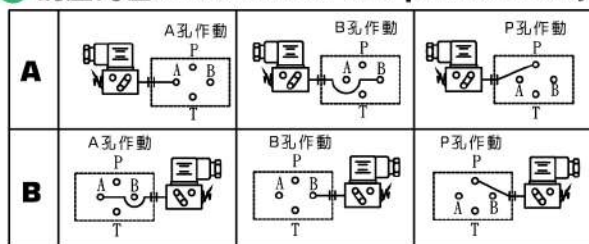
A:Aport
B:Bport
P:Pport
w:A&B port

④ 壓力範圍 / Pressure Adj. Range

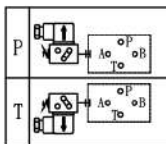
型式 Model	壓力調整範圍 Pressure Adj. Range bar	測定壓力 Set Pres. bar
040K	6~40	20
070K	8~70	30
150K	15~150	70
250K	40~250	100
360K	50~360	200

⑦ B:無指示燈 / Without indicator LED i:附指示燈 / With indicator LED

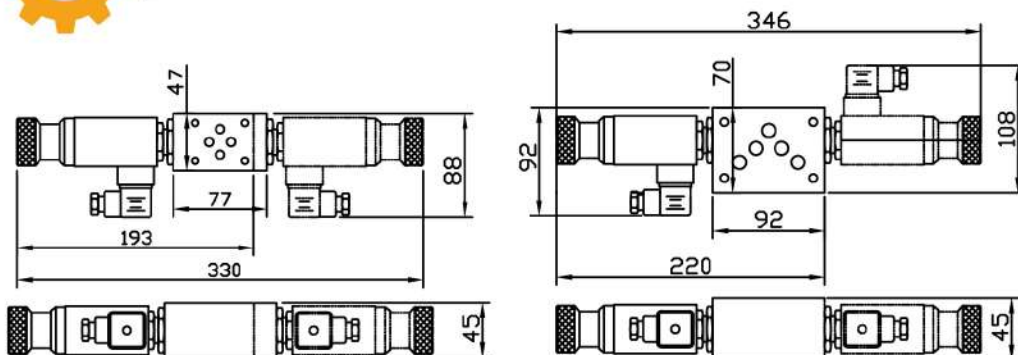
⑤ 調壓向位 / Position of the pressure adj.



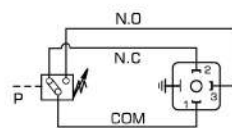
⑥ 電器插頭座位 / Position of the electrical connector



尺寸圖 / Dimension mm(inches)



油電符號表/Graphic Symbol



N.O.=Normally open
N.C.=Normally close

Rating:
B:3A 250VAC, 0.5A 30VDC
i:24DC,250VAC<0.6A

型式 Model	重量 kg Weight
DNM-02P(A.B)	2.1 Kgs
DNM-02W	3.1 Kgs

For use with ISO 03/CETOP 3/NFFA D03
Standard Solenoid Valves

型式 Model	重量 kg Weight
DNM-03 (A.B)	3.1 Kgs
DNM-03W	4.1 Kgs

For use ISO 05/CETOP 5/NFFA D05
Standard Solenoid Valves



性能圖 / Performance Curves

性能圖請參考DNA系列
See Table DNA Series

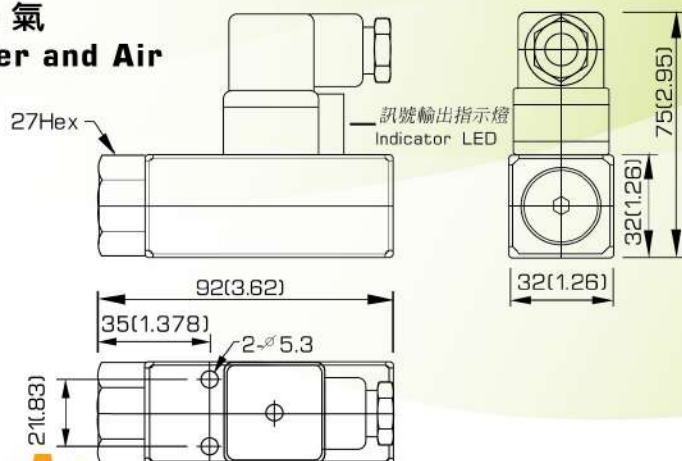
DNP 低壓隔膜式壓力開關

Low Pressure Diaphragm Pressure Switch

尺寸圖 / Dimension mm(inches)



油、水、氣
Oil, Water and Air



選購型號 / How to order

DNP-08K-21B

①

②

③

① 型式 / Model

一般型隔膜式
General Diaphragm Type

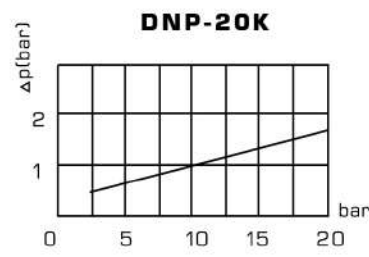
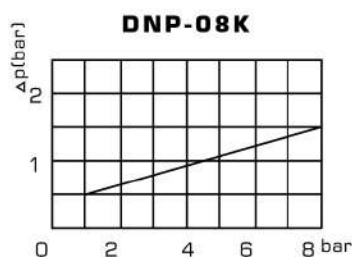
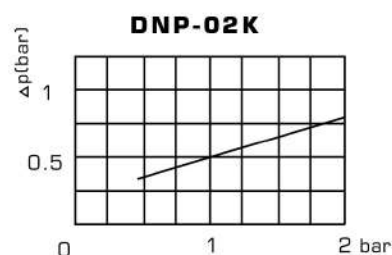
② 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 Pressure Adj. Range bar	最高耐壓 Max. Pressure bar	測定壓力 Set Pres. bar	重量 Weight kg
02K	0.5 ~ 2.0	80	1	0.3
08K	1.5 ~ 8.0	80	4	0.3
20K	2.0 ~ 20	80	5	0.3

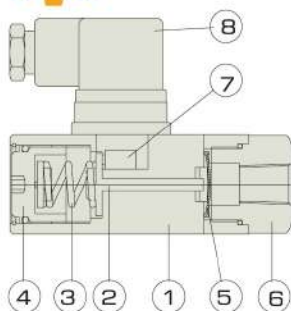
③ 21B:無指示燈 / Without indicator LED 06i:附指示燈 / With indicator LED



性能圖 / Performance Curves

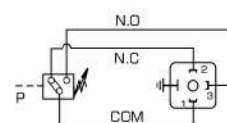


剖面圖 / Schematic Cross-Section



1 本體(鋁合金6061) Housing (Aluminum 6061)	5 隔膜 Diaphragm
2 伺服柱塞 Servo-Piston	6 接管孔口(1/4" PT/NPT) Connection Port (1/4" PT/NPT)
3 彈簧 Spring	7 微動開關 Micro switch
4 壓力調整鈕 Pressure Adj. knob	8 電氣接頭 Electrical Connector

油電符號表/Graphic Symbol



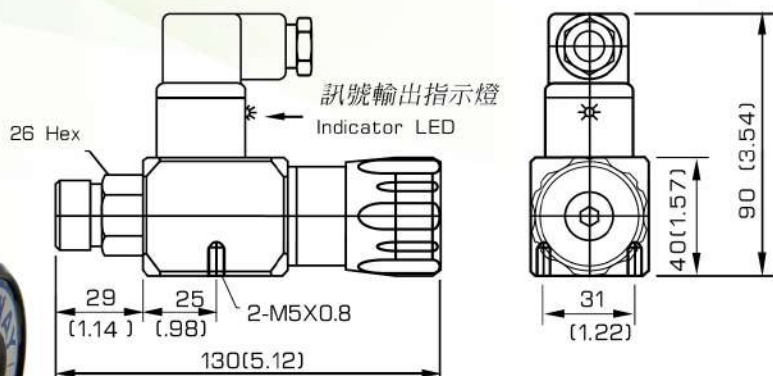
N.O.—Normally open
N.C.—Normally close

Rating:
21B:3A 250VAC, 0.5A 30VDC
06i:24DC, 250VAC<0.6A

PSA

無接點式 油電壓力開關 NPN Pressure Switch

尺寸圖 / Dimension mm(inches)



選購型號 / How to order

PSA-100K-21B

①

②

③

① 型式 / Model

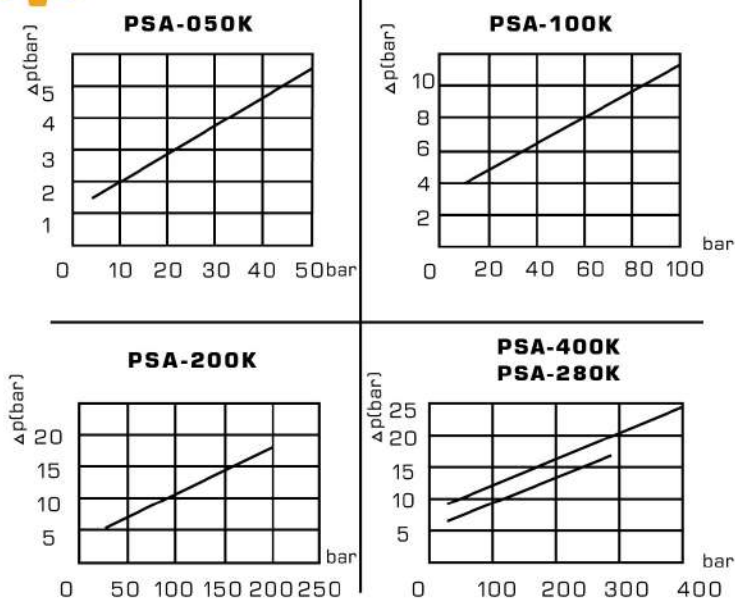
壓力直讀式 · 24VDC電晶體感應開關
Direct Read-out, 24VDC Transistor
Sensing Pressure Switch

② 壓力範圍 / Pressure Adj. Range

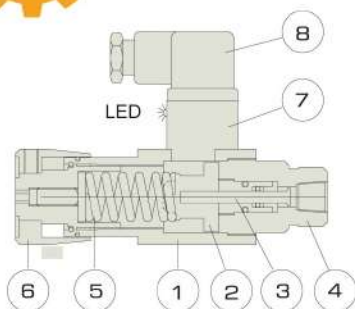
型式 Model	壓力調整範圍 Pressure Adj. Range bar	最高耐壓 Max. Pressure bar	測定壓力 Set Pres. bar	重量 Weight kg
050K	6~50	200	25	0.8
100K	15~100	300	45	0.8
200K	30~200	300	100	0.8
280K	40~280	350	110	0.8
400K	50~400	450	180	0.8

③ 設計資料 / Design Number

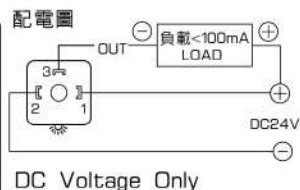
性能圖 / Performance Curves



剖面圖 / Schematic Cross-Section



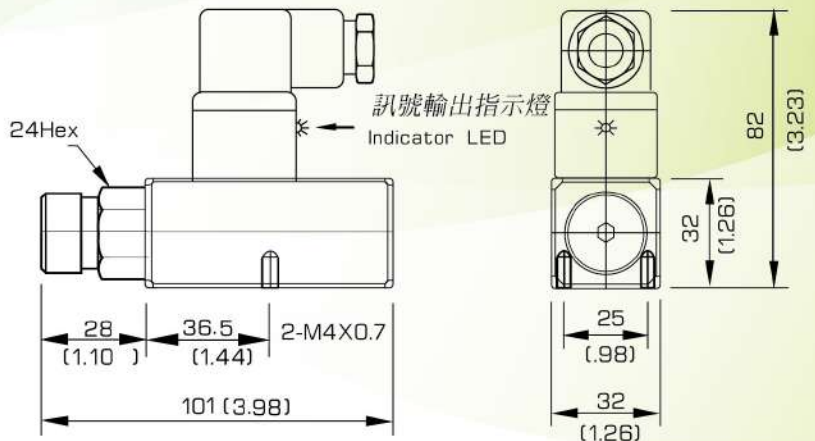
1 本體(鋁合金6061) Housing (Aluminum 6061)	5 彈簧 Spring
2 開關感應座 Switch Sensing Block	6 壓力調整鈕 Pressure Adj. Knob
3 伺服柱塞 Servo-Piston	7 感應開關 Proximity Sensor
4 接管孔口(1/4"PT) Connection Port (1/4"PT)	8 電氣接頭 Electrical Connector



PSB

無接點式 油電壓力開關 NPN Pressure Switch

尺寸圖 / Dimension mm(inches)



選購型號 / How to order

PSB-250K-21B

①

②

③

① 型式 / Model

一般型・24VDC電晶體感應開關
General Type, 24VDC Transistor Sensing
Pressure Switch

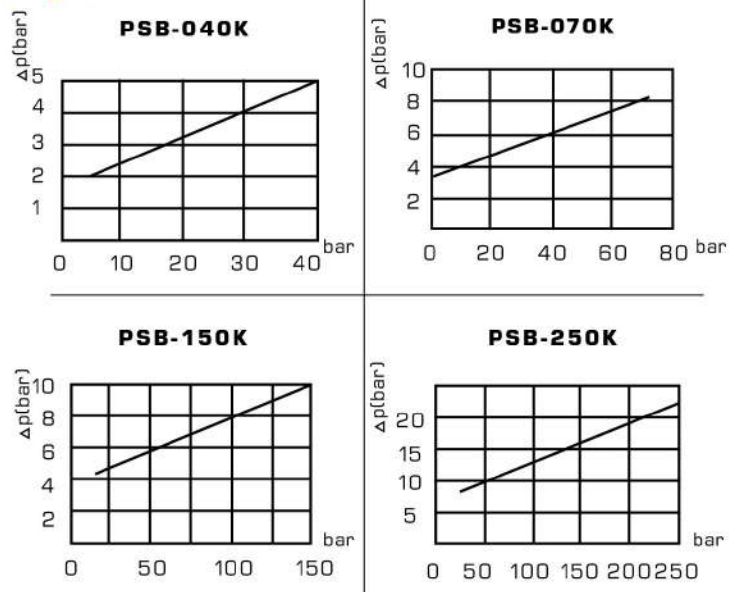
② 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 Pressure Adj. Range bar	最高耐壓 Max. Pressure bar	測定壓力 Set Pres. bar	重量 kg Weight
040K	6~40	150	20	0.6
070K	10~70	150	30	0.6
150K	20~150	250	70	0.6
250K	40~250	250	100	0.6

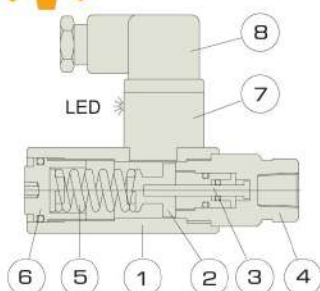
③ 設計資料 / Design Number



性能圖 / Performance Curves

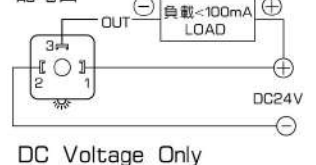


剖面圖 / Schematic Cross-Section



1 本體(鋁合金6061) Housing (Aluminum 6061)	5 彈簧 Spring
2 開關感應座 Switch Sensing Block	6 壓力調整鈕 Pressure Adj. Knob
3 伺服柱塞 Servo-Piston	7 感應開關 Proximity Sensor
4 接管孔口(1/4"PT) Connection Port (1/4"PT)	8 電氣接頭 Electrical Connector

配電圖



PSL

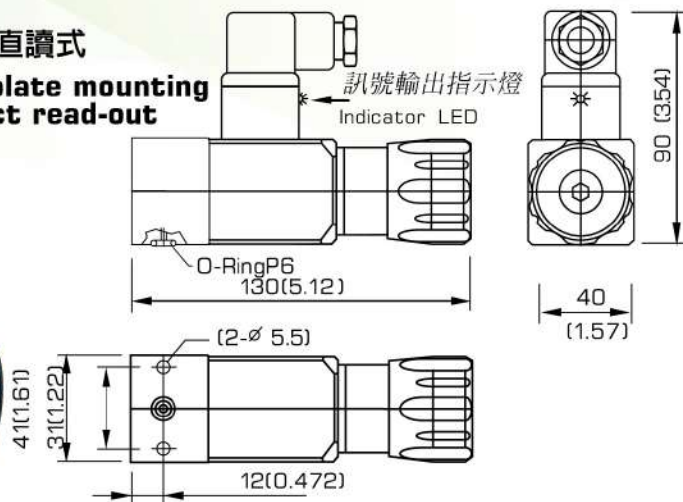
無接點式 油電壓力開關 NPN Pressure Switch

尺寸圖 / Dimension mm(inches)



貼壁直讀式

Subplate mounting
direct read-out



選購型號 / How to order

PSL-100K-21B

①

②

③

1 型式 / Model

貼壁壓力直讀式 · 24VDC電晶體感應開關
Direct Read-out, Subplate, mounting 24VDC
Transistor Sensing Pressure Switch

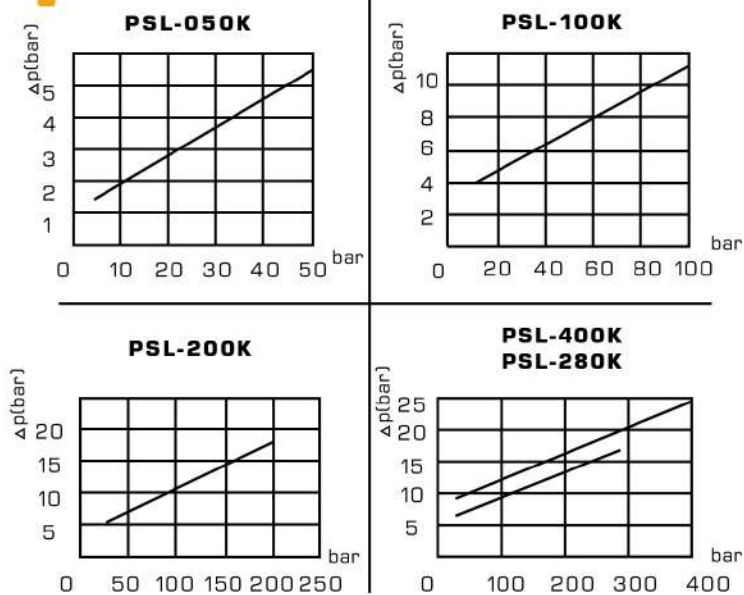
2 壓力範圍 / Pressure Adj. Range

型式 Model	壓力調整範圍 Pressure Adj. Range bar	最高耐壓 Max. Pressure bar	測定壓力 Set. Pres. bar	重量 Weight kg
050K	6~50	200	25	0.8
100K	15~100	300	45	0.8
200K	30~200	300	100	0.8
280K	40~280	350	110	0.8
400K	50~400	450	180	0.8

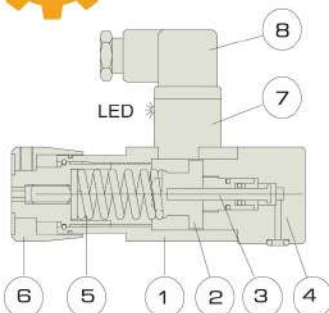
3 設計資料 / Design Number



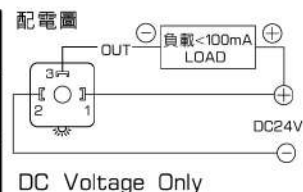
性能圖 / Performance Curves



剖面圖 / Schematic Cross-Section



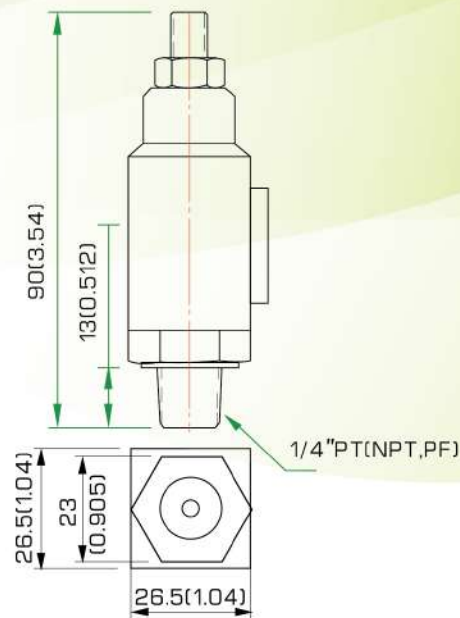
1 本體(鋁合金6061) Housing (Aluminum 6061)	5 彈簧 Spring
2 開關感應座 Switch Sensing Block	6 壓力調整鈕 Pressure Adj. Knob
3 伺服柱塞 Servo-Piston	7 感應開關 Proximity Sensor
4 接管孔口(O-Ring P6) Connection Port (O-Ring P6)	8 電氣接頭 Electrical Connector



TC 小型壓力開關 Miniature Pressure Switch



尺寸圖 / Dimension mm(inches)



選購型號 / How to order

TC-250-1

①

②

③

1 型式 / Model

一般型:小型壓力開關
Miniature Pressure Switch

2 壓力範圍 / Pressure Adj. Range

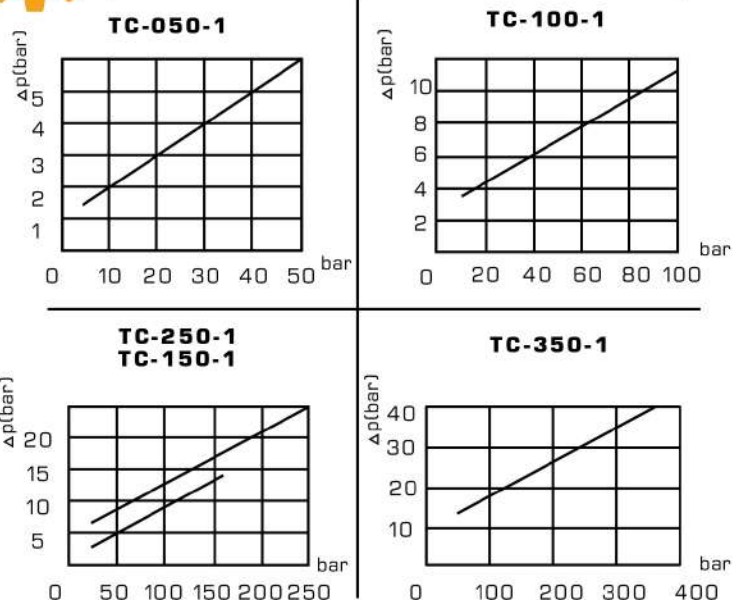
型式 Model	壓力調整範圍 bar Pressure Adj. Range bar	最高耐壓 bar Max. Pressure bar	測定壓力 bar Set Pres. bar	重量 kg Weight
050	6~50	150	25	0.15
100	10~100	300	50	0.15
150	20~150	300	70	0.15
250	30~250	350	100	0.15
350	40~350	400	200	0.15

3 1:1/4"PT(RC)

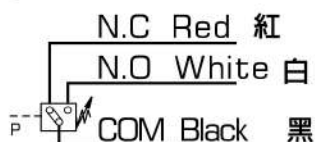
2:1/4"NPT

3:1/4"PF(G)

性能圖 / Performance Curves



油電符號圖 / Graphic Symbol



N.O=Normally open
N.C=Normally close

Rating:

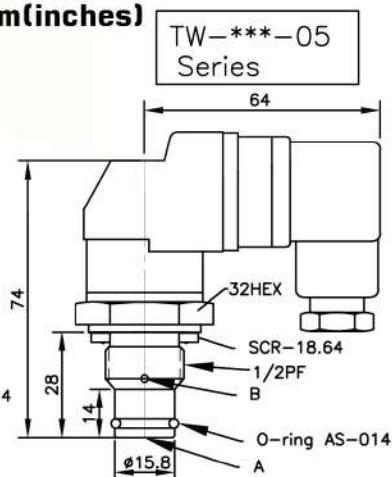
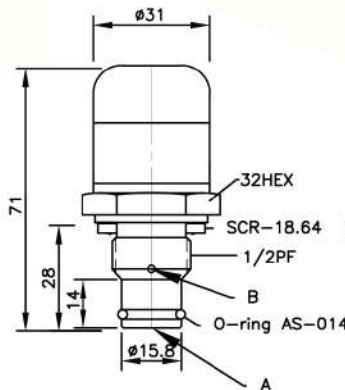
3A 250VAC, 0.5A 30VDC

TW

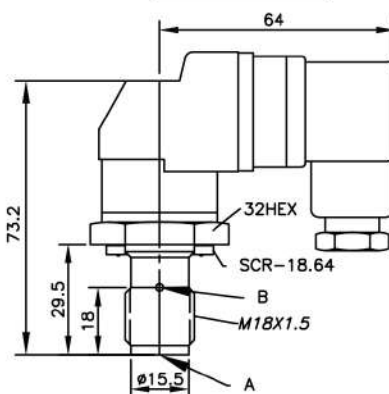
壓差顯示器

Differential Pressure Indicator

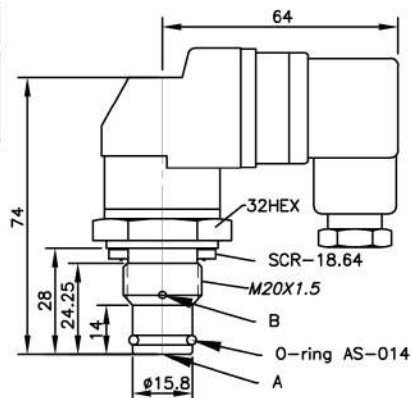
尺寸圖 / Dimension mm(inches)



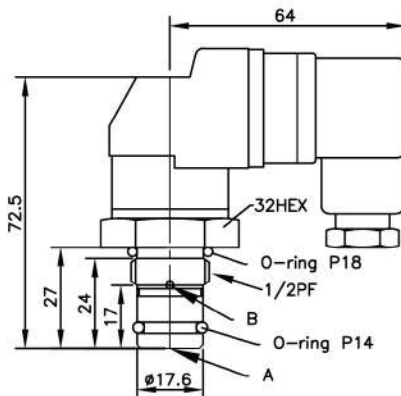
TW-***-18 Series



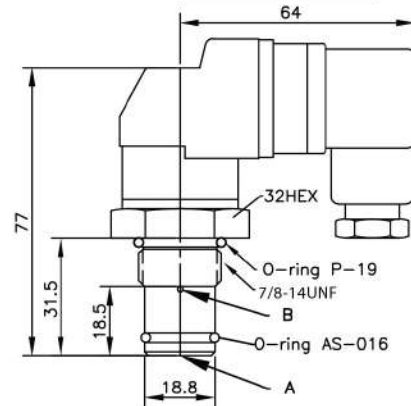
TW-***-20 Series



TW-***-05J Series



TW-***-W6 Series



選購型號 / How to order

TW-V5A-05

① ② ③ ④ ⑤

① 型式 / Model

② V=紅綠兩色壓差顯示 Visual indicator

S=紅綠兩色+訊號輸出壓差顯示

Visual-Electrical indicator

③ 動作壓力 / React to the pressure differential

1.5=1.5 bar (22psi)

3=3 bar (43.5psi)

5=5 bar (72.5psi)

7=7 bar (101.5psi)

10=10 bar (145psi)

④ 感壓孔口 A / Reaction to the A port

感壓孔口 B / Reaction to the B port

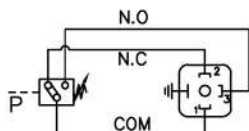
⑤ 05=1/2 PF

18=M18X1.5

20=M20X1.5

W6=7/8-14UNF

油電符號表 / Graphic Symbol



Rating:

3A 250VAC, 0.5A 30VDC

N.O.=Normally open

N.C.=Normally close

TWOWAY® HYDRAULIC

滿油閥

Pre-Fill Valves Flange-clamped Type

TWOWAY®

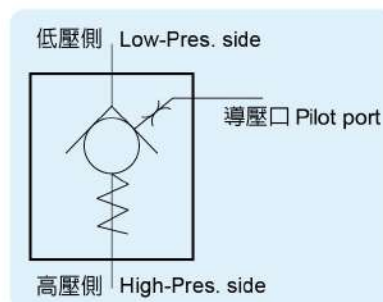
Pre-Fill Valves
Flange-clamped Type



www.taicoln.com

滿油閥

Pre-Fill Valves (flange-clamped type)



SVF



SCF



SPF



STF

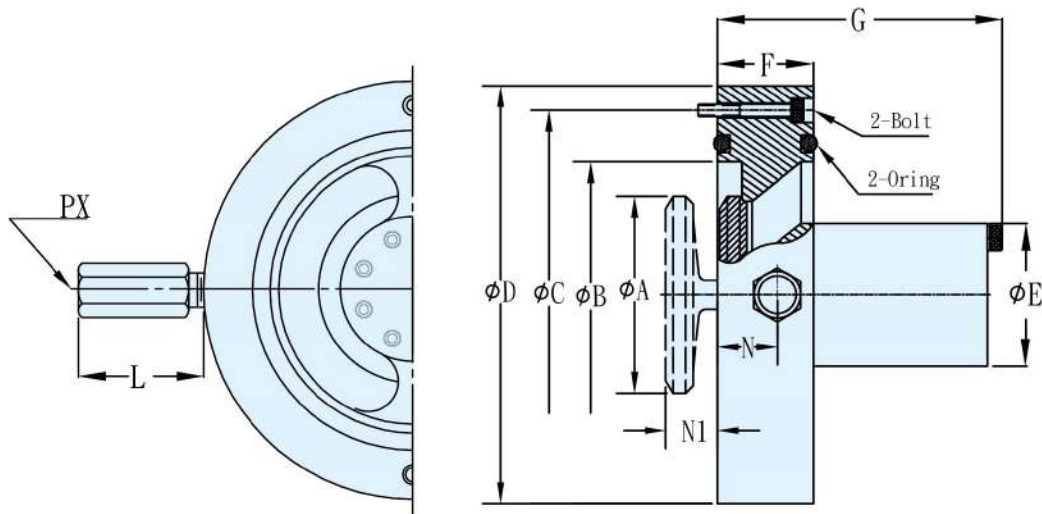
特性

- 體積小，易於拆裝
- 低壓損，流量大
- 構造簡單，耐久性佳
- 鋼質本體及組件，有10種模式供選用
- 球墨鑄鐵本體及鋼質組件，有6種模式供選用
- 可直接裝置於油缸蓋側

Special Features

- Small size and easy to install.
- Low pressure loss and high flow capacity.
- Simple structure and good durability.
- Steel body and steel components, 10 models for selection.
- Ductile cast iron body and steel components, six models for selection.
- Can be directly installed on the cylinder cap side.

滿油閥 Pre-Fill Valves (flange-clamped type)



選購型號 How to order

SVF-100-21C

①

②

③

① 型號 / Model SVF / SCF ② 規格 / Size (SVF-32)~(SVF-250) (SCF-32)~(SCF-125) ③ 設計之資料 Design Number

尺寸表 / Dimensions (unit: mm)

SVF: 合金鋼 SCM4

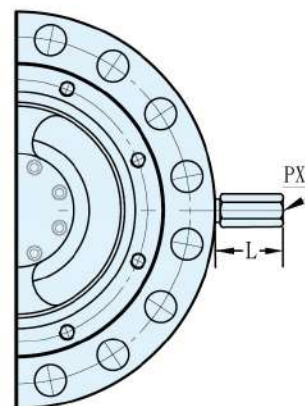
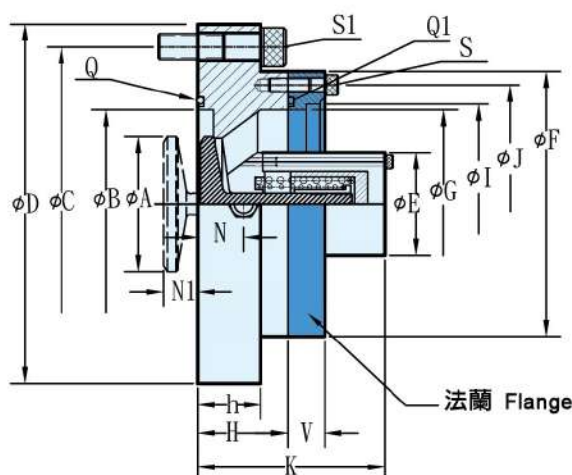
SCF: 球墨 FCD50

型式 Model	ØA	ØB	ØC	ØD	ØE	F	G	N	N1	L	PX	固定螺絲 Bolts	O-Ring
SVF-32 / SCF-32	34	49	-	82	33	28	70	15	7.5	62	PT1/4"	-	AS-228
SVF-40	42	56.5	91	108	39	28	76.5	16.5	10	62	PT1/4"	M4x30	AS-231
SVF-50 / SCF-50	53	72	112	128	42	29	91	16	12.5	62	PT1/4"	M4x30	AS-236
SVF-63 / SCF-63	63	87	125	143	50	33.5	105	18.5	16	62	PT1/4"	M5x35	P95
SVF-80 / SCF-80	78	108	150	169	57	38.5	117	24	17	62	PT1/4"	M5x40	P120
SVF-100 / SCF-100	97	130	185	210	70	44	150	29	22	62	PT1/4"	M6x45	P145
SVF-125 / SCF-125	128	170	226	248	89	51	190	34	32	70	PT3/8"	M6x50	P185
SVF-160	160	220	284	310	120	70	225	50	37	70	PT3/8"	M8x70	P235
SVF-200	200	272	355	390	145	95	286	65	50	85	PT1/2"	M10x95	P295
SVF-250	250	350	445	490	177	110	372	70	70	85	PT1/2"	M12x115	P385

特性數據 / Specifications

型式 Model	口徑 Port	最大流量 Max. Flow (L/min)	使用壓力 (kgf/cm ²) Max. Pressure	導壓比 Pilot Ratio	閥重 Weight (kg)
SVF-32 / SCF-32	2B	160	400 / 250	3.6	1.2
SVF-40	2.5B	250	400	3.6	2.2
SVF-50 / SCF-50	3B	400	400 / 250	4.5	3.2 / 3.0
SVF-63 / SCF-63	3.5B	630	400 / 250	4.4	4.5 / 4.2
SVF-80 / SCF-80	4B	1000	400 / 250	4.6	6.8 / 6.4
SVF-100 / SCF-100	5B	1600	400 / 250	4.6	12.3 / 11.7
SVF-125 / SCF-125	8B	2500	400 / 250	4.5	20.5 / 19.3
SVF-160	10B	4000	400	4.3	45
SVF-200	12B	7000	280	4.3	85 (含木箱 98)
SVF-250	16B	15000	280	4.5	160 (含木箱 178)

法蘭式滿油閥 Pre-Fill Valves (flange-clamped type)



選購型號 How to order

STF-100-12C

①

②

③

① 型號 / Model ② 規格 / Size ③ 設計之資料 Design Number
SPF / STF (SPF-32)~(SPF-250)
(STF-32)~(STF-125)

尺寸表 / Dimensions (unit: mm)

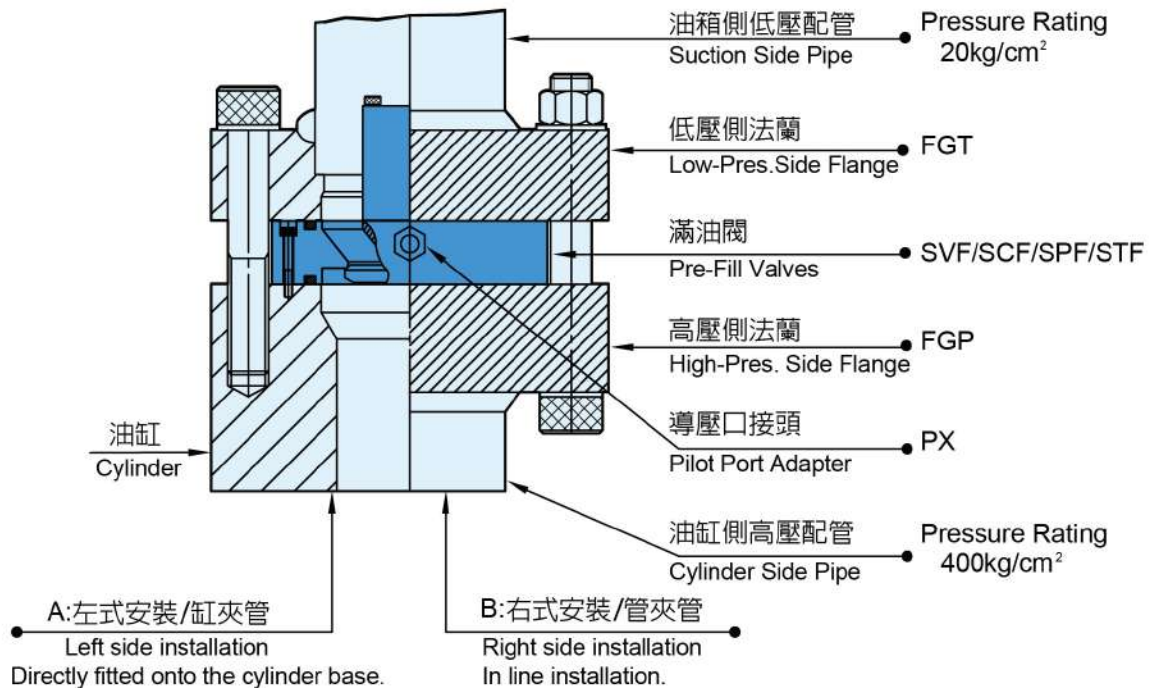
SPF: 合金鋼 SCM4 STF: 球墨鑄鐵 FCD50

型式 Model	對照型號	口徑 Port	ØA	ØB	ØC	ØD	ØE	ØF	ØG	h	H	I	J	K	L	PX	N	N1	V
— / STF-32	PF-50	2B	34	48	103.2	130	33	111	51	24	47	61	92	65	62	PT 1/4"	15	7	20
SPF-50 / STF-50	PF-80	3B	53	72	146	180	42	142	71	33	65	90.2	120	86	62	PT 1/4"	22.5	12.5	23
SPF-63 / STF-63	PF-90	3.5B	63	87	165	200	50	160	88	41	70	101.6	135	101	62	PT 1/4"	27	16	23
SPF-80 / STF-80	PF-100	4B	78	106	191	230	57	170	106	40	74	115.5	148	112	62	PT 1/4"	31	17	23
SPF-100 / STF-100	PF-125	5B	97	130	230	270	70	200	130	50	85	141.2	175	150	62	PT 1/4"	36	22	23
SPF-125 / STF-125	PF-150	6B	128	170	260	298	89	223	160	58/65	82/105	167	200	185	70	PT 3/8"	43/45	32	23
SPF-160	PF-200	8B	160	220	367	422	120	310	218	73	105	220	278	224	70	PT 3/8"	56	37	43
SPF-200	PF-300	12B	200	280	442	496	145	394	280	88	120	324.5	366	286	85	PT 1/2"	70	50	48
SPF-250	PF-350	14B	250	340	515	570	177	462	340	105	140	356.5	429	376	85	PT 1/2"	81	70	52

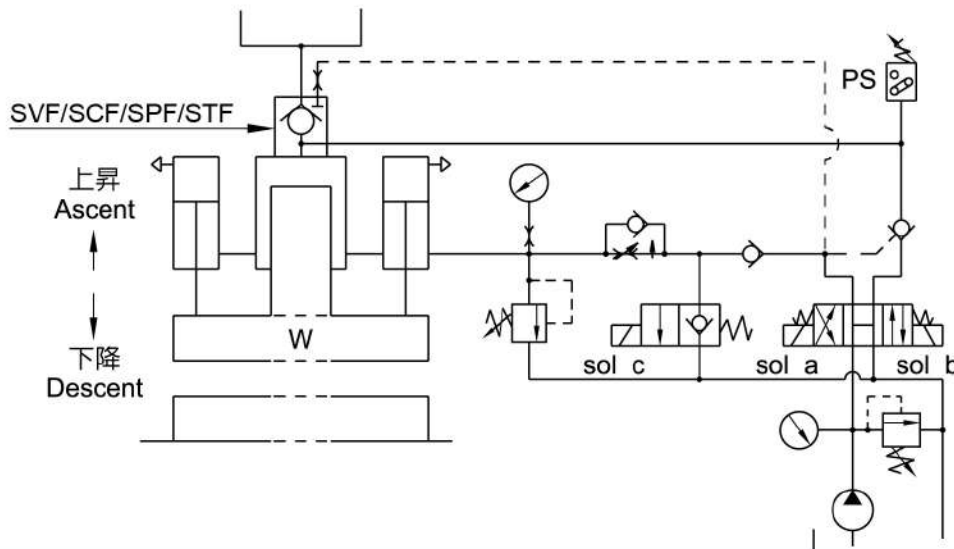
特性數據 / Specifications

型式 Model	對照型號	O型環 Q O-Ring	O型環 Q1 O-Ring	法蘭螺絲 S Mounting Bolts	法蘭螺絲 S1 Mounting Bolts	使用壓力 (kgf/cm ²) Max. Pressure	最大流量 Max. Flow (L/min)	閥重 Weight (kg)
— / STF-32	PF-50	AS-228	AS-228	4-M10X35L	4-M16X45L	400 / 250	160	4.2
SPF-50 / STF-50	PF-80	AS-236	G80	6-M12X40L	6-M16X55L	400 / 250	400	11.3/10.4
SPF-63 / STF-63	PF-90	P95	G100	6-M12X40L	6-M18X65L	400 / 250	630	15/14
SPF-80 / STF-80	PF-100	P120	G115	6-M12X40L	6-M20X70L	400 / 250	1000	19.5/18.2
SPF-100 / STF-100	PF-125	P145	G140	6-M12X40L	12-M20X80L	400 / 250	1600	31.5/27.8
SPF-125 / STF-125	PF-150	P185	G170	8-M12X40L	16-M20X90L/16-M20X95L	400 / 250	2500	42/43.8
SPF-160	PF-200	P235	P235	8-M16X65L	16-M30X120L	400	4000	108(含木箱118)
SPF-200	PF-300	P295	P295	10-M16X70L	20-M30X130L	280	7000	175(含木箱191)
SPF-250	PF-350	P360	P360	10-M16X75L	20-M30X150L	280	15000	275(含木箱295)

滿油閥 安裝示範例圖 (僅供參考) Installation (For reference) **Pre-Fill valves (flange-clamped type)**

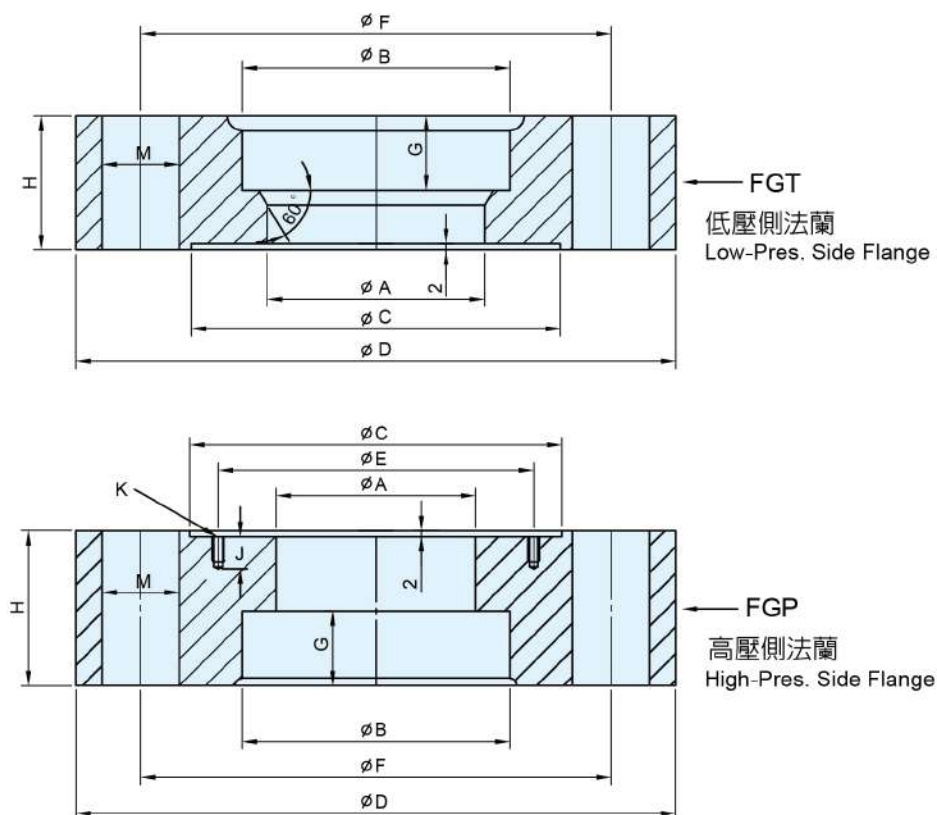


滿油閥 油路運用列 (僅供參考) Typical application circuit (For reference)



動作 Operation	SOL	a	b	c	PS	SVF/SCF/SPF/STF
下降快速 Rapid Descent		✓		✓		自吸 Suction
下降加壓 Pressurized Descent		✓		✓		關閉 Closed
出力保壓 Clamping				✓ 計時 Timing		關閉 Closed
上昇動作 Ascent			✓			導開回油 Piloted open

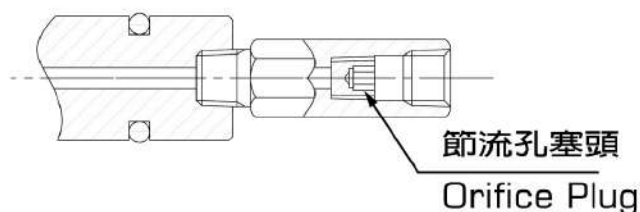
碟式滿油閥安裝法蘭參考尺寸 Flange Dimensions (mm)



125~250 法蘭參考尺寸

型式 Model	ØA	ØB	ØC	ØD	ØE	ØF	G	H	J	K	M
FGP-125-2-M24/8B FGT-125-2-M24/8B	168	219	249	350	226	300	35 25	70 60	15	2-M6	12-Ø26
FGP-125-4-M30/8B FGT-125-4-M30/8B	168	219	249	354	226	300	50 30	90 80	15	2-M6	12-Ø32
FGP-160-2-M30/10B FGT-160-2-M30/10B	218	270	312	422	284	367	40 30	90 80	15	2-M8	16-Ø32
FGP-200-2-M30/12B FGT-200-2-M30/12B	270	321	392	510	355	442	40 35	100 90	20	2-M10	20-Ø32
FGP-250-2-M30/16B FGT-250-2-M30/16B	350	409	495	632	445	555	55 40	110 100	25	2-M12	24-Ø32
FGP-250-4-M42/18B FGT-250-4-M42/18B	350	460	495	632	445	555	55 40	125 110	25	2-M12	22-Ø45

滿油閥導壓口接頭 / Pre-Fill valves pilot port adapter



型式 Model	節流孔 Orifice	塞孔 Plug
SVF/SCF/SPF/STF-32、40、50	0.7mm	PT1/8"
SVF/SCF/SPF/STF-63	0.8mm	
SVF/SCF/SPF/STF-80	1.0mm	
SVF/SCF/SPF/STF-100	1.2mm	
SVF/SCF/SPF/STF-125、160	1.5mm	PT1/4"

滿油閥 Pre-Fill valves 爆炸圖

