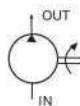




定量齒輪泵 Gear Pump

P1系列 P1 Series



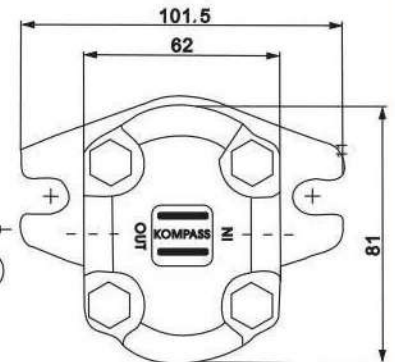
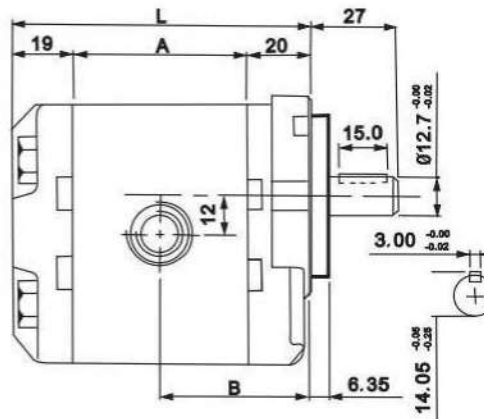
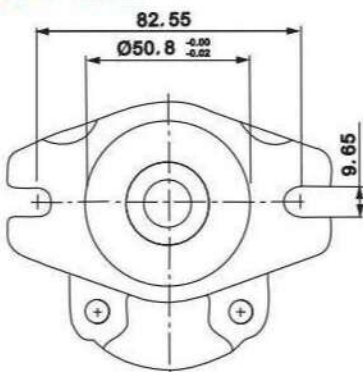
■ 特性

本系列P1高效率液壓泵專為超高壓液系統而設計，前、後蓋、採用高級鋁合金壓鑄而成，密度高，外型堅固。經濟型6061T6的主體硬度高、耐磨耗，8字型軸承套更採用A356T6重力鑄造，內裝特制耐高溫及耐磨之自潤軸承，更能有效承受瞬間達25Mpa之高壓。Viton材質之密封及整體精研而成的合金鋼齒輪組能適應高溫之使用條件，有效延長使用壽命，適用於高扭力之使用條件。

本系列P1高效率液壓泵專為超高壓液泵具有下列特點

- 1、效率高，P1系列總效率90%以上。
- 2、適用於車輛、升降系統、農業機械、產業機械多種液壓機械設備等。
- 3、零件單純，易於保養及維護。
- 4、可與油泵專用電機組成泵電機組合。
- 5、可與低壓大流量葉片泵組成高低壓泵組合，合理利用能源，節約成本。

■ 尺寸圖 DIMENSION



CW: 順時針方向無符號，無箭頭  
CCW: 逆時針方向

■ 規格表 SPECIFICATIONS:

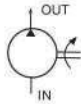
型號 MODEL	Displacement 排量 ml/rev	Pressure 使用壓力(MPa)		Outside size (mm) 外形尺寸 (mm)			Weight 重量(Kg)	Inlet & Outlet 出入油口(PT)	
		額定 Rated	最高 Max.	A	B	L		入口 Inlet	出口 Outlet
P101	1.30	21	25	44.08	42.04	83.08	0.82	1" 2	3" 8
P102	2.00	21	25	46.08	43.04	85.08	0.91		
P127	2.70	21	25	48.08	44.04	87.08	1.00		
P135	3.40	21	25	50.08	45.04	89.08	1.05		
P104	4.10	21	25	52.08	46.04	91.08	1.10		
P105	5.10	21	25	55.08	47.54	94.08	1.14		
P106	6.10	21	25	58.08	49.04	97.08	1.18	3" 4	1" 2
P107	7.40	20	23	62.08	51.04	101.08	1.27		
P109	9.10	18	21	67.08	53.54	106.08	1.32		

ここにテキストを入力



## 定量齒輪泵 Gear Pump

### P2系列 P2 Series



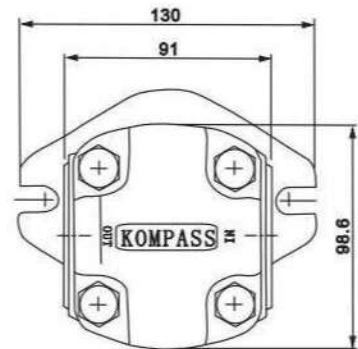
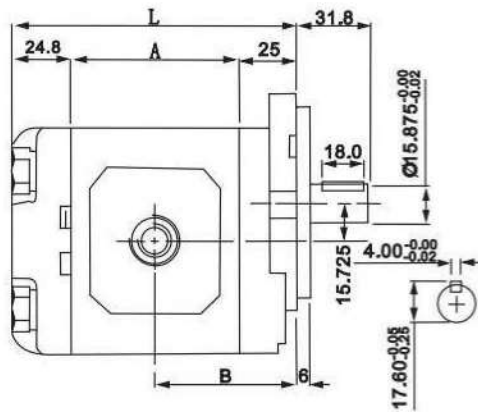
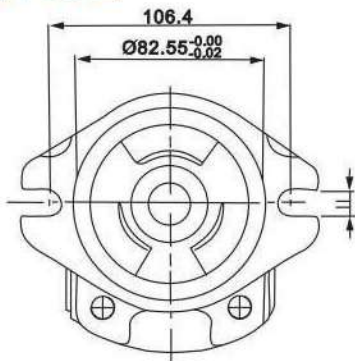
#### ■ 特性

本系列P2高效率液壓泵專為超高壓液壓系統而設計，適用於高頻率、高油溫、高污染之使用環境，前、後蓋、主體皆採用A356重力鑄造，並經T6熱處理，密度與硬度高且耐磨耗。8字型軸承套更採用7075鑄造，內裝耐高溫耐磨耗之自潤軸承，更能有效承受瞬間達30MPa之高壓，Viton材質之密封及整體精研而成的合金鋼齒輪組能適應高溫，並有效延長使用壽命，適用於高扭力之使用條件。

本系列P2高效率液壓泵具有下列特點

- 1、效率高，P2系列可高達97%。
- 2、適用於車輛、升降系統、農業機械、產業機械多種液壓機械設備等。
- 3、零件單純，易於保養及維護。
- 4、可與油泵專用電機組成泵電機組合。
- 5、可與低壓大流量葉片泵組成高低壓泵組合，合理利用能源，節約成本。

#### ■ 尺寸圖 DIMENSION



CW: 順時針方向無符號，無箭頭  
CCW: 逆時針方向

#### ■ 規格表 SPECIFICATIONS:

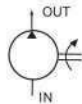
型號 MODEL	排量 ml/rev	Pressure (Mpa)		Outside size (mm)			Weight (KG)	Inlet & Outlet	
		額定 Rated	最高 Max.	A	B	L		入口 Inlet	出口 Outlet
P204	4.00	21	25	47.90	48.95	97.70	2.32	3" 4	1" 2
P206	6.20	21	25	51.60	50.80	101.4			
P208	8.40	21	25	55.10	52.55	104.9			
P211	11.0	21	25	59.60	54.80	109.4			
P214	14.3	21	25	65.10	57.55	114.9			
P216	16.5	21	25	68.80	59.40	118.6			
P219	19.2	21	25	73.10	61.55	122.9			
P222	22.5	21	25	78.60	64.30	128.4			
P225	25.0	18	21	83.10	66.55	132.9	3.36	1"	3" 4
P233	33.0	18	21	86.10	68.05	135.9			





定量齒輪泵 Gear Pump

P3系列 P3 Series



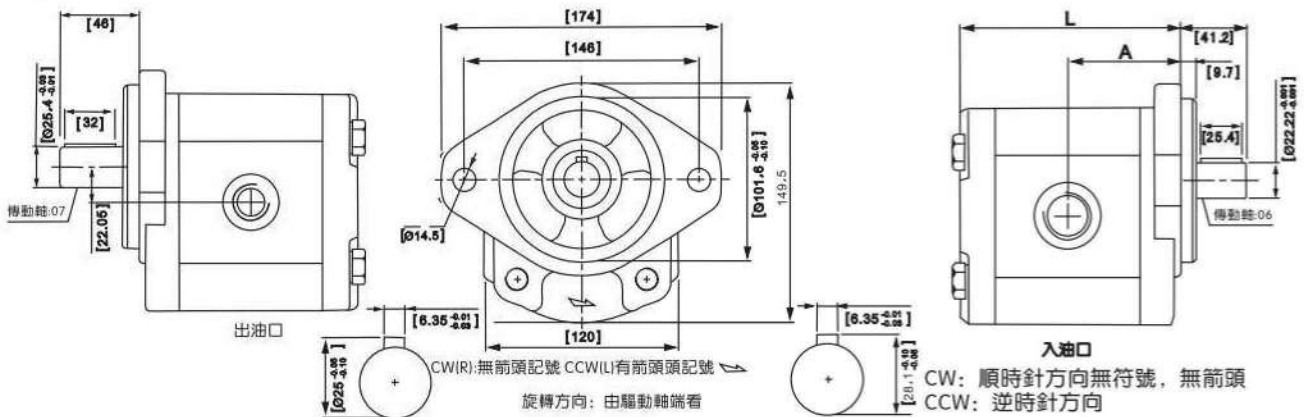
■ 特性

本系列P3高效率液壓泵專為超高壓液壓系統而設計，適用於高頻率、高油溫、高污染之使用環境，前、後蓋為鑄鐵製造、主體皆採用鋁合金擠型鑄造，並經熱處理，密度與硬度高且耐磨耗。8字型軸承套更採用特殊鑄造，內裝耐高溫耐磨耗之自潤軸承，更能有效承受瞬間達27MPa之高壓，Viton材質之密封及整體精研而成的合金鋼齒輪組能適應高溫，並有效延長使用壽命，適用於高扭力之使用條件。

本系列P3高效率液壓泵具有下列特點

- 1、效率高，P3系列可高達90%。
- 2、適用於車輛、升降系統、農業機械、產業機械多種液壓機械設備等。
- 3、零件單純，易於保養及維護。
- 4、可與油泵專用電機組成泵電機組合。
- 5、可與低壓大流量葉片泵組成高低壓泵組合，合理利用能源，節約成本。

■ 尺寸 DIMENSION



■ 規格表 SPECIFICATIONS:

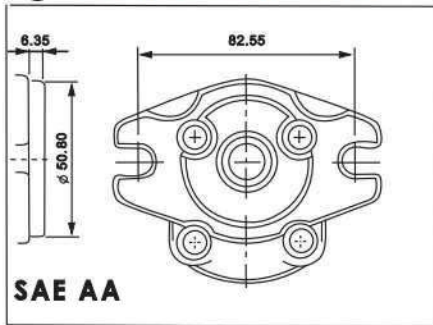
Shaft code	Displacement	Pressure (Mpa)	Outside size (mm)	Weight (KG)	Inlet & Outlet				
傳動軸代號	型號 Model	排量 ml/rev	使用壓力(MPa)		外形尺寸 (mm)		重量(Kg)	出入口口	
			額定 Rated	最高 Max.	A	L		入口 Inlet	出口 Outlet
06	P323	23.0	25	27	65.0	128	8.2	"P1" PT 1"	PT3/4"
	P325	25.0	25	27	66.5	130	8.3		
	P328	28.0	25	27	67.5	132	8.4		
	P333	33.0	25	27	69.5	136	8.6		
07	P338	38.0	25	27	71.5	140	9.0	"P2" PT1-1/4"	PT3/4"
	P344	44.0	22	24	73.5	144	9.8		
	P352	52.0	20	22	76.0	149	10.4	"P3" PT1-1/2"	PT1"
	P360	60.0	18	20	79.0	155	10.9		
	P370	70.0	16	18	82.5	162	11.3		
	P380	80.0	15	17	85.0	167	11.9		
	P390	90.0	14	16	88.0	173	12.4		



P1系列安裝法蘭表

傳動軸表 P1 shaft sheet

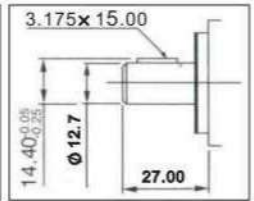
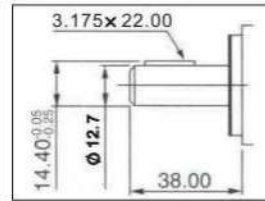
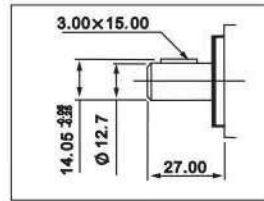
G P1 Flange mounting



01

10

12

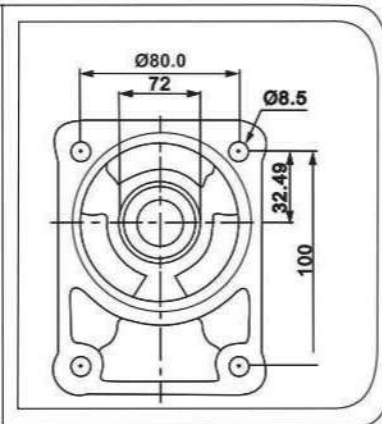
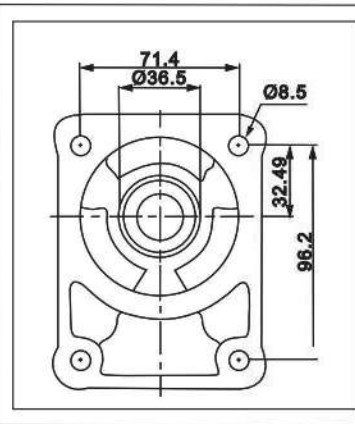
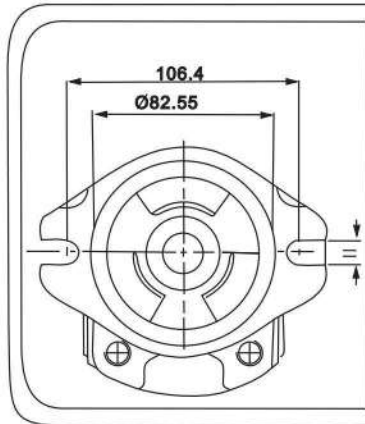


P2系列安裝法蘭表及傳動軸表 P2 Flange mounting & shaft sheet

D

C

E

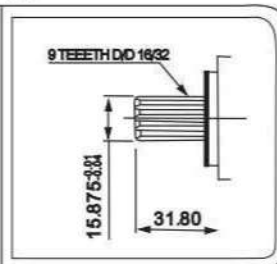
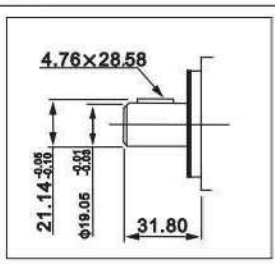
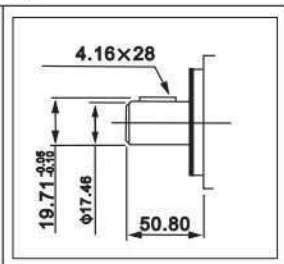
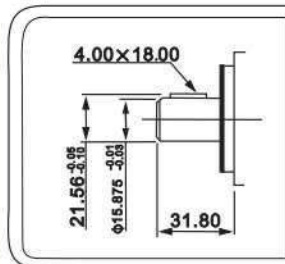


01

02

04

07



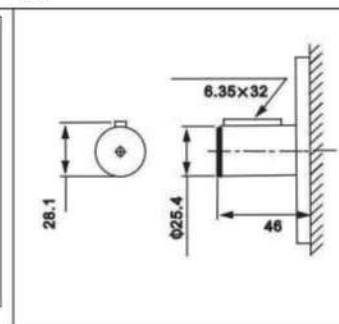
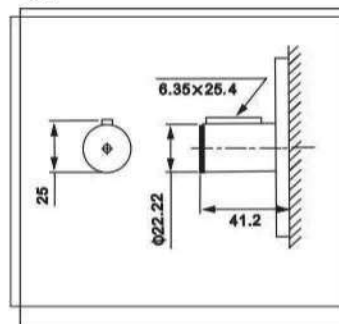
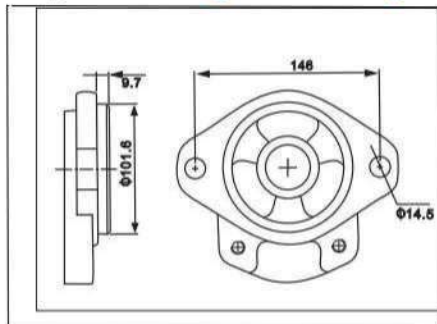
P3系列安裝法蘭表

傳動軸表 P3 shaft sheet

B P3 Flange mounting

06

07



備注：以上為標準油泵的連接尺寸及法蘭型式，如需要其它形式的安裝法蘭或傳動軸型式，請洽詢朝田公司技術部。

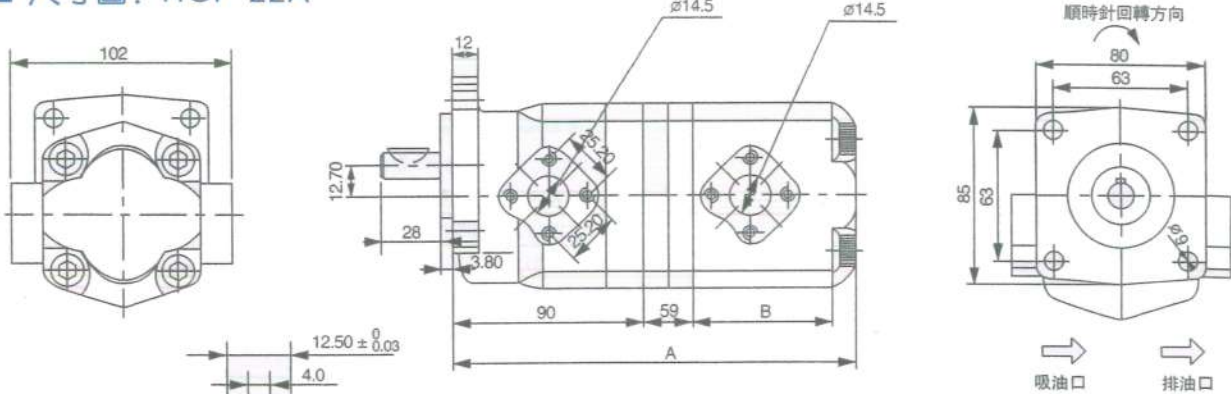




C2

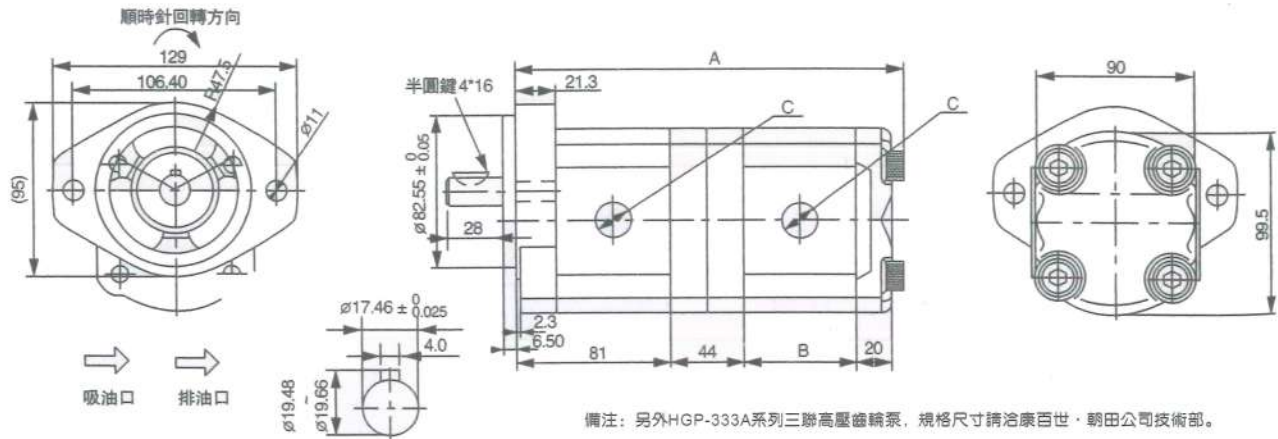
**DIMENSION:HGP-22A**

■ 尺寸圖: HGP-22A



型號	A	B	型號	A	B
HGP-22A-22	174.5(6.9)	43(6.9)	HGP-22A-88	185.5(7.3)	54(2.1)
HGP-22A-33	176.5(6.9)	45(1.8)	HGP-22A-99	188.5(7.4)	57(2.2)
HGP-22A-44	180.5(7.1)	49(1.9)	HGP-22A-1111	191.5(7.5)	60(2.4)
HGP-22A-66	183.5(7.2)	52(2.0)	HGP-22A-1212	194.5(7.7)	63(2.5)

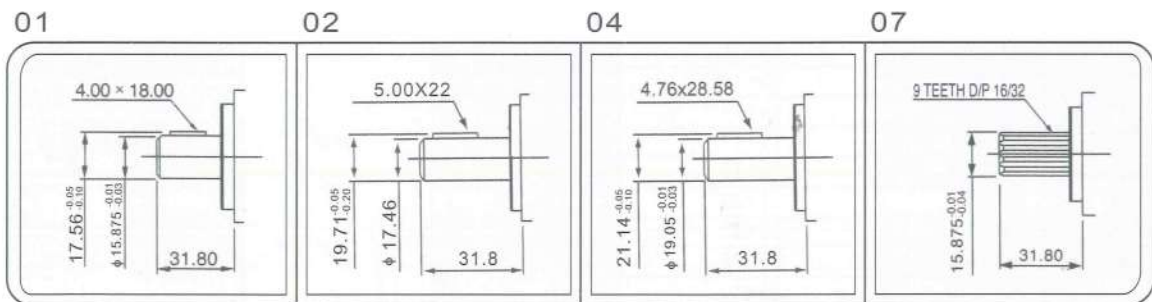
■ HGP-33A



備注: 另外HGP-333A系列三聯高壓齒輪泵, 規格尺寸請洽康百世·聯田公司技術部。

型號	A	B	型號	A	B
HGP-33A-06+06	101(3.98)	47.5(1.87)	HGP-33A-19+19	123(4.84)	58.5(2.30)
HGP-33A-08+08	104(4.09)	49.0(1.93)	HGP-33A-23+23	130(5.12)	62.0(2.44)
HGP-33A-11+11	109(4.29)	51.5(2.03)	HGP-33A-25+25	133(5.24)	63.5(2.50)
HGP-33A-13+13	113(4.45)	53.5(2.11)	HGP-33A-28+28	137(5.39)	65.5(2.58)
HGP-33A-14+14	115(4.53)	54.5(2.15)	HGP-33A-30+30	141(5.55)	67.5(2.66)
HGP-33A-17+17	119(4.69)	56.5(2.22)			

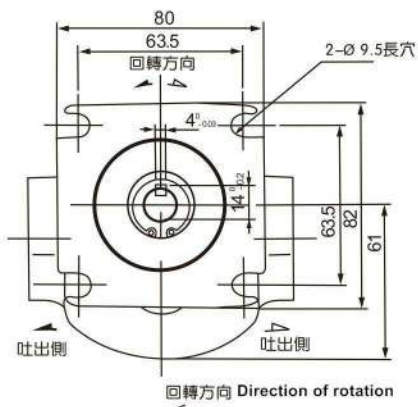
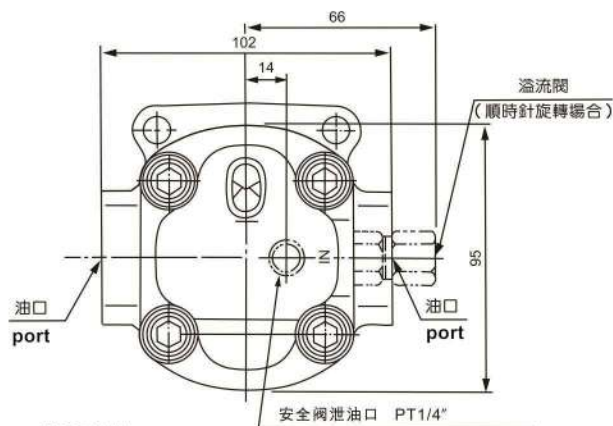
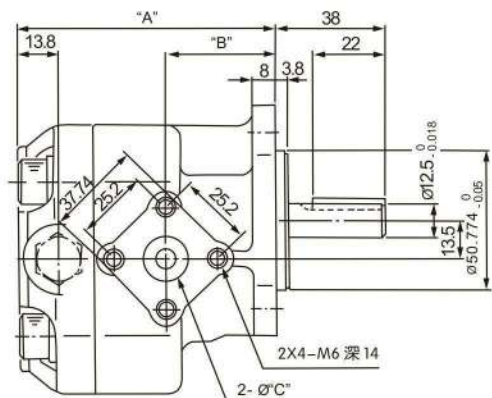
■ HGP系列法裝傳動軸表



# DIMENSION

## ■ 尺寸圖

K1P,PA

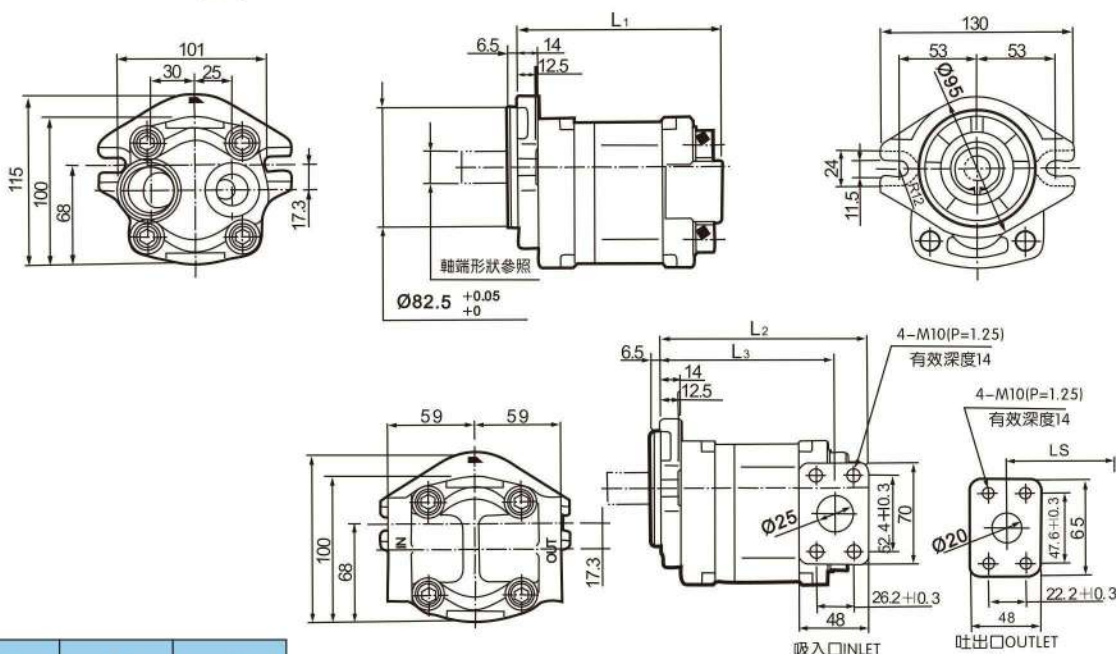


### MODEL

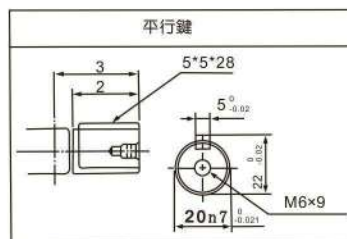
型號	A	B	C
K1P1/PA1	94.2/91.2	39.9	14.5/14.8
K1P2/PA2	94.2/91.2	39.9	14.5/14.8
K1P3/PA3	94.2/91.2	39.9	14.5/14.8
K1P4/PA4	94.2/91.2	39.9	14.5/14.8
K1P6/PA5	94.2/91.2	39.9	17.9/17.5
K1P7/PA6	94.2/91.2	39.9	17.9/17.5
K1P9/PA7	98/95	43.7	17.9/17.5
K1P10/PA8	98/95	43.7	17.9/17.5

備注：本圖所表示為順時針旋轉之方式，若逆時針旋轉出油口與進油口相反位置。

SGP1A



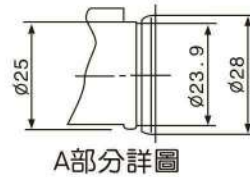
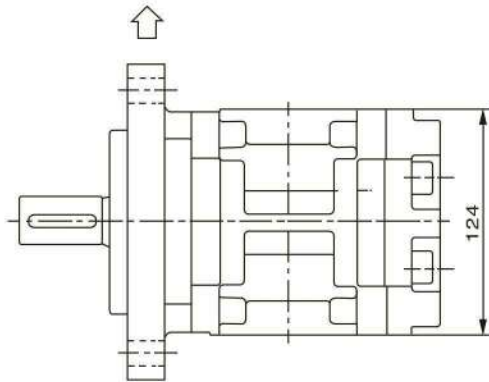
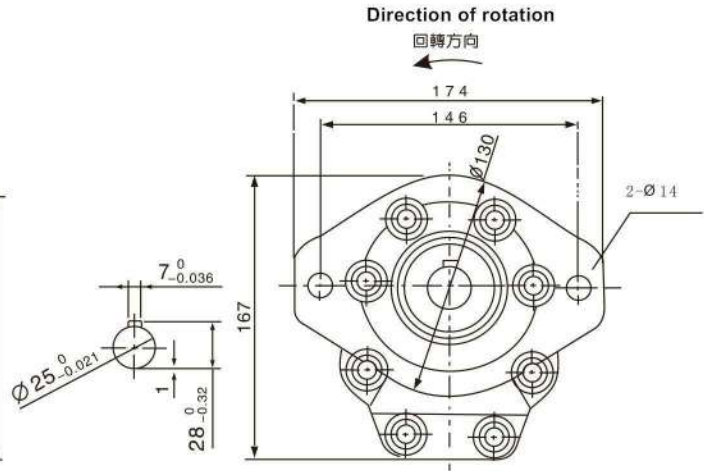
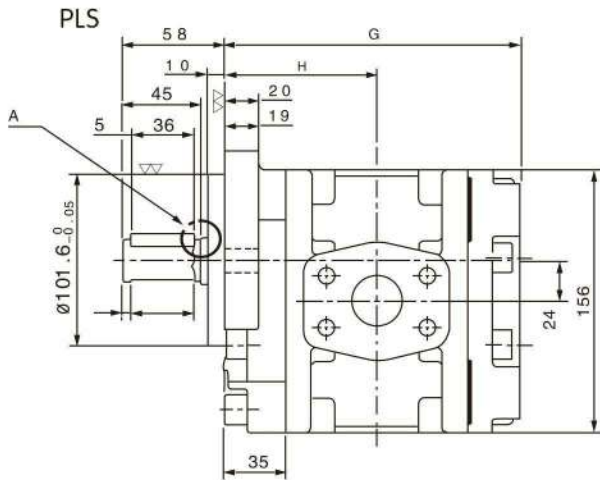
規格	尺寸	L1	L2	L3
SGP1A-16		108.0	121.5	98.0
20		113.0	126.5	103.0
23		117.0	130.5	107.0
25		118.5	131.5	108.5
27		122.0	135.5	112.0
32		128.5	142.0	118.5
36		132.5	146.0	122.5





# DIMENSION

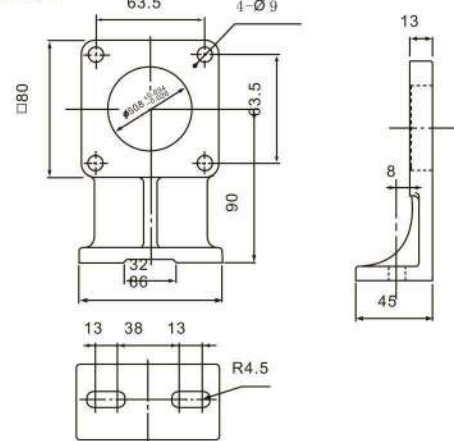
## ■ 尺寸圖



### K1P法蘭 K1P Flange

直通法蘭	
型式	附件
	六角螺絲 M6X30 8支 O形圈JIS B2401- 1BXP22 2條

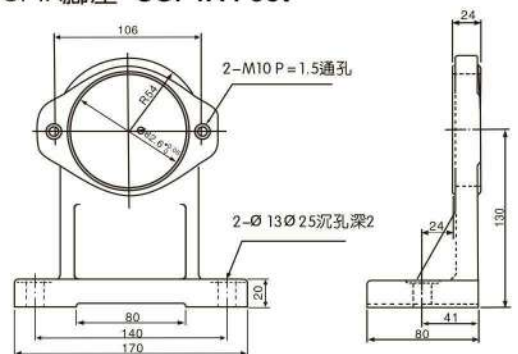
### K1P腳座 K1P Foot



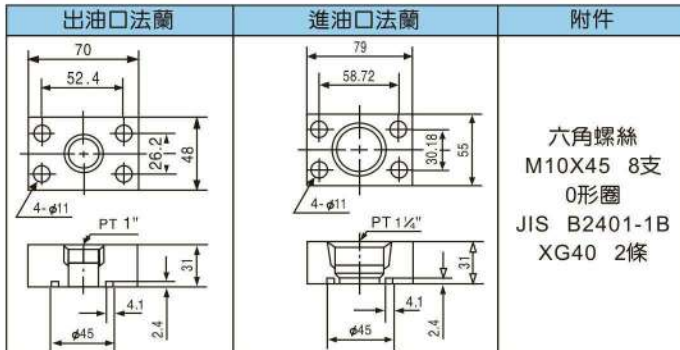
### SGP1A Flange SGP1A法蘭

出口口法蘭	進油口法蘭	附件
		(各油口法蘭) 六角螺絲M10X 35 8支 O形圈 JIS B2401-1B XP28 1條 JIS B2401-1B XG25 1條

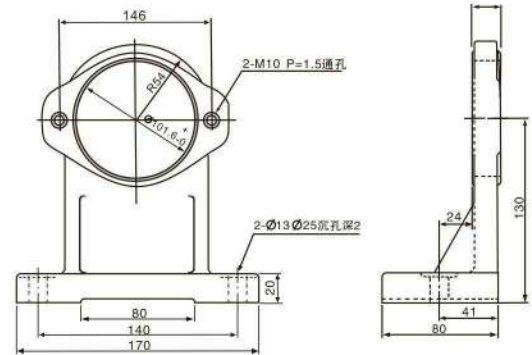
### SGP1A腳座 SGP1A Foot



## PLS法蘭 PLS Flange



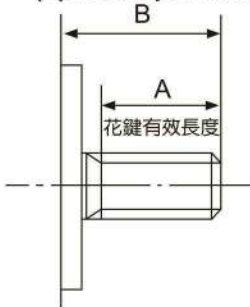
## PLS腳座 PLS Foot



## Shaft type

### ■ 軸端型式

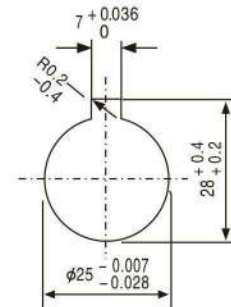
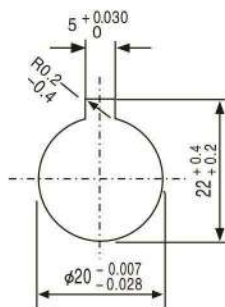
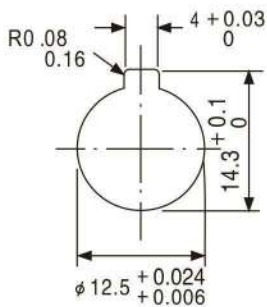
花鍵 (特殊規格)  
 spline  
 (special specification)



型式	K1P	SGP1	PLS	
A	20	27	35	
B	30	36	45.5	
花 鍵 參 數	齒數	12	11	15
	節距	-	13/32	16/32
	壓力角	20°	30°	30°
	節圓	∅2	∅17.463	∅23.812
	大徑	∅14.3 <sup>0</sup> <sub>-0.1</sub>	∅18.631 <sup>0</sup> <sub>-0.127</sub>	∅24.980 <sup>0</sup> <sub>-0.127</sub>
	小徑	∅12.0 <sup>+0.07</sup> <sub>+0</sub>	∅15.456 <sup>0</sup> <sub>-0.279</sub>	∅21.805 <sup>0</sup> <sub>-0.279</sub>

備注: KIP之轉數位系數+0.800, 模數1.0。

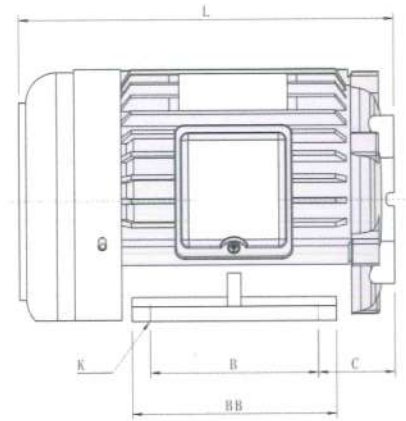
平行鍵 (標準型)  
 straight key (standard)







## Hydraulic drive motor horizontal type



4P	6P	Frame	Phase	Drawings	A	AA	AB	AC	AD
1/2	1/4	80	3	FIGURE1	125	37	158	178	138
1	1/2	80	3		125	35	155	175	135
2	1	90L	3		140	40	172	196	145
3	2	100L	3	FIGURE2	160	41	197	219	162
5	3	112M	3		190	45	228	235	165
7 1/2	5	132S	3		216	50	259	271	191
10	7 1/2	132M	3		216	50	250	271	191
15	10	160M	3		254	50	300	345	255
20	15	160L	3		254	50	300	345	255
25	30	20	180MC		3	279	75	356	389
40	25	30	180LC	3	279	80	356	389	305
1/2	-	80	1	FIGURE1	125	37	158	179	138
1	-	90L	1		140	40	175	203	157
2	-	90L	1		140	40	178	203	157
3	-	112M	1		190	48	226	235	175
5	-	112M	1		190	47	224	235	175

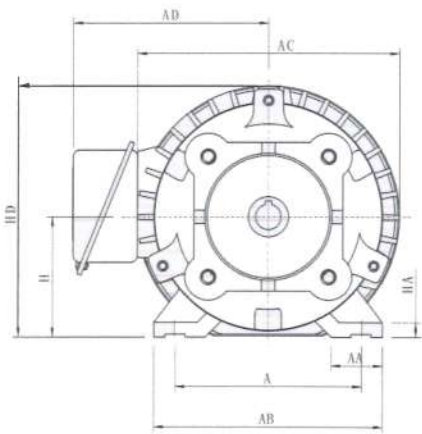


FIGURE1

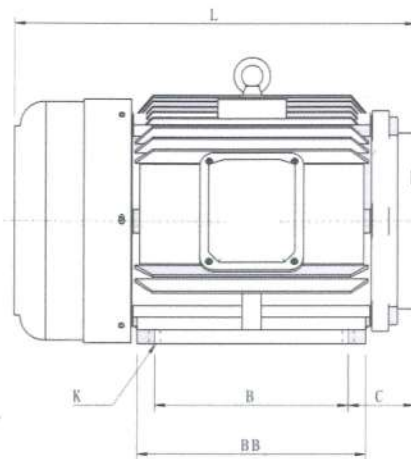
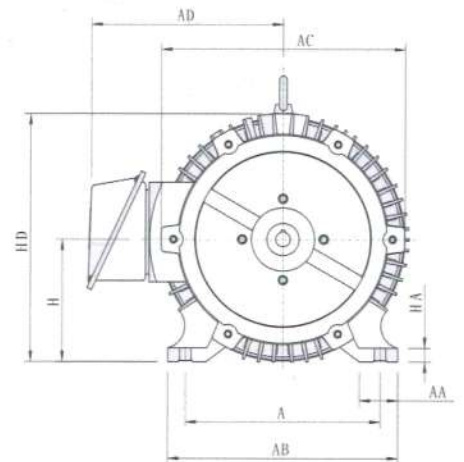


FIGURE2



unit:mm

B	BB	C	H	HA	HD	K	L	kg
100	130	53.5	80	10	175	10	233	13
100	130	53.5	80	10	170	10	240	15.5
125	156	52	90	10	190	12	272	23.5
140	177	65	100	13	210	12	305	31.5
140	172	57.5	112	12	230	12	300	38.5
140	175	77	132	14	266	12	345	60
178	213	75	132	14	266	12	380	70
210	250	86.5	160	18	325	15	480	115
254	300	86.5	160	18	325	15	525	140
241	300	104	180	20	370	15	550	180/220
279	330	104	180	20	370	15	585	240
100	132	61	80	11	173	10	267	15
125	157	60	90	11	190	12	292	24
125	157	67.5	90	11	190	12	307	28
140	178	80	112	12	226	12	343	42.5
140	201	95	112	13	226	12	373	48



## Low voltage horizontal motors

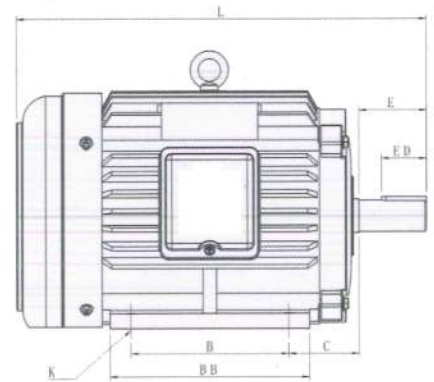


FIGURE1

4P	6P	Frame size	Phase	Drawings	A	AA	AB	AC	AD	B	BB
1/2	1/4	71	3	FIGURE1	112	40	150	166	132	90	116
1	1/2	80	3		125	37	158	178	138	100	132
2	1	90L	3		140	40	174	203	155	125	157
3	2	100L	3	FIGURE2	160	41	197	224	162	140	177
5	3	112M	3		190	46	228	234	168	140	177
7 1/2	5	132S	3		216	50	259	271	191	140	175
10	7 1/2	132M	3		216	50	250	271	191	178	213
15	10	160M	3		254	50	300	345	253	210	250
20	15	160L	3		254	50	300	345	253	254	300
25	30	180MC	3		279	75	356	389	305	241	300
40	25	30	180LC	3	279	80	356	389	305	279	335
1/2	-	80	1	FIGURE1	125	37	158	179	138	100	132
1	-	90L	1		155	40	192	198	155	125	145
2	-	90L	1		140	40	178	203	152	125	157
3	-	112M	1		190	48	226	235	175	140	178
5	-	112M	1		190	47	224	235	175	140	201

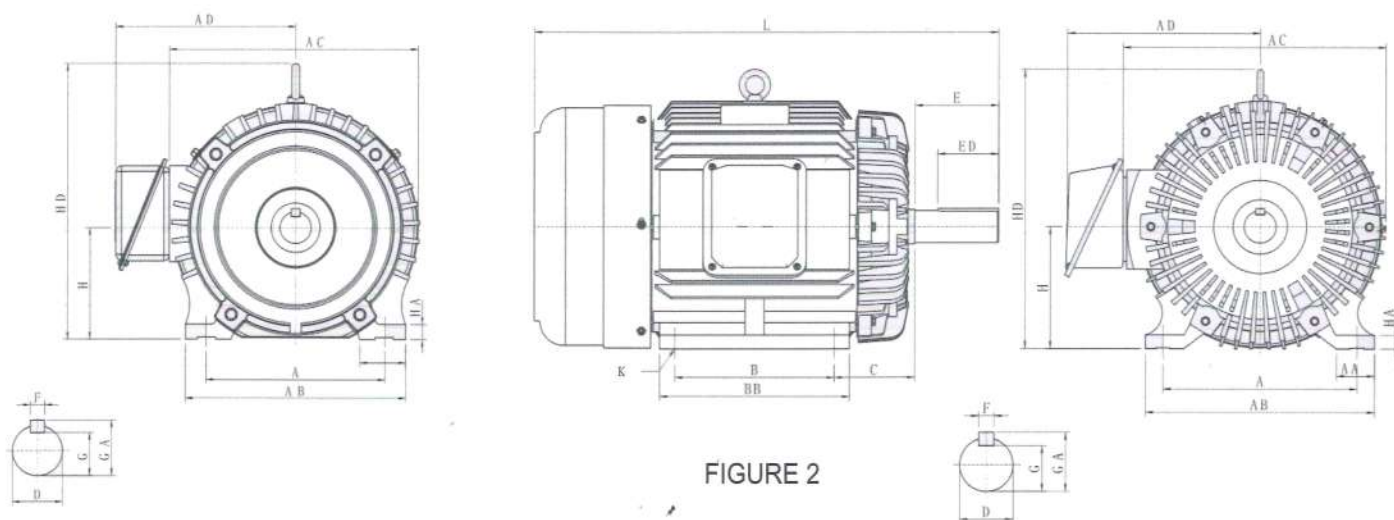


FIGURE 2

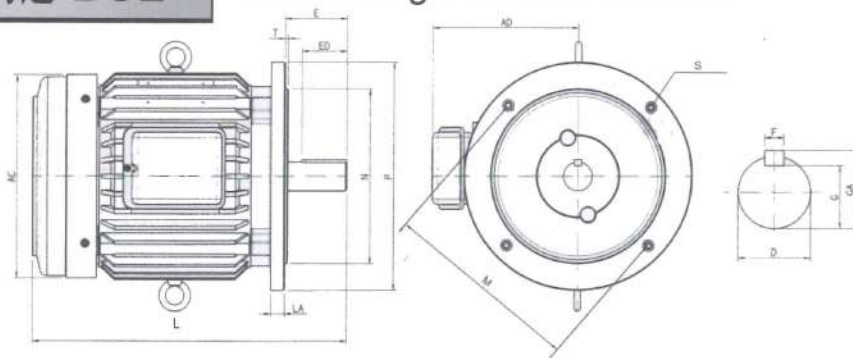
unit:mm

C	H	HA	HD	K	L	axile dimension						kg
						D	E	ED	F	G	GA	
45	71	10.5	155	10	255	14	40	25	5	11	16	13
50	80	11	170	10	280	19	40	30	6	15.5	21.5	15
56	90	11	190	12	320	24	50	40	8	20	27	22
63	100	13	250	12	363	28	60	40	8	24	31	31.5
70	112	13	265	12	370	28	60	40	8	24	31	38
89	132	14	310	12	438	38	80	60	10	33	41	59.5
89	132	14	310	12	475	38	80	60	10	33	41	69
108	160	18	370	15	612	42	110	80	12	37	45	112
108	160	18	370	15	655	42	110	80	12	37	45	125
121	180	20	421	15	670	48	110	80	14	42.5	51.5	180
121	180	20	421	15	715	55	110	80	16	49	59	238
53	80	11	175	10	290	16	30	25	5	13.5	18.5	15
45	90	11	190	12	315	22	50	40	7	18.5	25.5	24
61.5	90	11	190	12	352	24	50	40	8	20	27	27.5
75	112	12	265	12	398	28	60	40	8	24	31	42.5
90	112	13	265	12	428	28	60	40	8	24	31	47.5



# 標準型出軸立式馬達 **BSL**

## Low voltage vertical motors

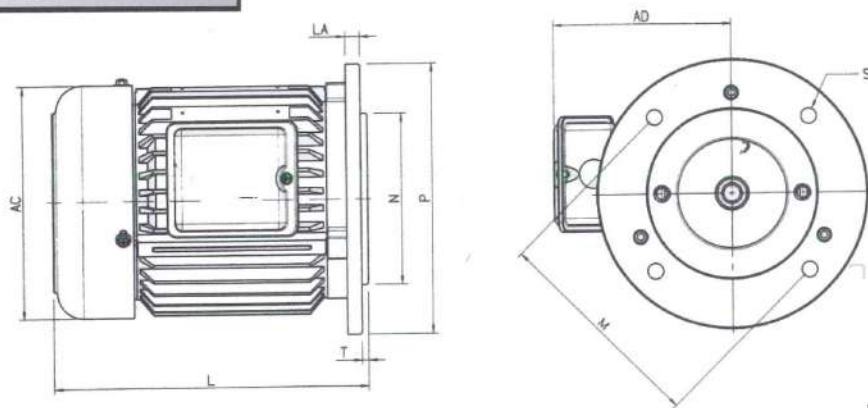


unit:mm

4P	6P	Frame size	Phase	AC	AD	L	LA	M	N	P	S	T	axile dimension						kg
													D	E	ED	F	G	GA	
1/2x2		71	3	158	130	260	11.5	130	110	160	10	3.5	14	30	25	5	11	16	11.5
1/2	1/4	71	3	158	130	275	11.5	130	110	160	10	3.5	14	30	25	5	11	16	12.3
1	1/2	80	3	177	135	278	11.5	165	130	200	12	3.5	19	40	30	6	15.5	21.5	18
2	1	90	3	196	150	338	11.5	165	130	200	12	3.5	24	50	40	8	20	27	23
3	2	100	3	220	156	365	14.5	215	180	248	15	4	28	60	40	8	24	31	23
5	3	112	3	228	163	380	13	215	180	250	15	5	28	60	40	8	24	31	40
7.5	5	132	3	268	193	420	16	265	230	300	15	4	38	80	60	10	33	41	58
10	7.5	132	3	268	193	455	16	265	230	300	15	4	38	80	60	10	33	41	70
15	10	160M	3	318	250	612	19	300	250	350	19.5	5	42	110	80	12	37	45	125
20	15	160L	3	318	250	656	19	300	250	350	19.5	5	42	110	80	12	37	45	135
1/2		80	1	177	139	310	11	130	110	160	12	3.5	14	30	30	5	11.5	16.5	17
1		90	1	196	152	358	9	165	130	200	12	3.5	24	50	40	8	20	27	23
2		90	1	196	156	390	9	165	130	200	12	3.5	24	50	40	8	20	27	30
3		112	1	228	174	423	13	215	180	250	15	5	28	60	40	8	24	31	42.5

# 油壓銑殼立式馬達 **HSL**

## Hydraulic motor vertical type



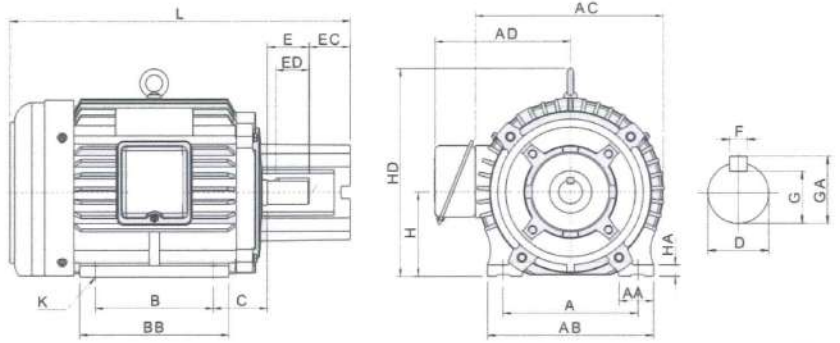
unit:mm

4P	6P	Frame size	Phase	AC	AD	L	LA	M	N	P	S	T	kg
1	1/2	80	3	177	140	250	10	180	130	206	12	12	16.5
1	-	90	1	196	155	282	10	200	130	230	12	10	24
2	1	90	3	196	150	264	10	200	130	230	12	10	24
2	-	90	1	196	160	325	10	200	130	230	12	10	30
3	2	112	3	228	166	290	12	225	180	250	12.5	14	32
3	-	112	1	228	175	332	14	225	180	255	12.5	14	42.5
5	-	112	3	228	166	287	12	225	180	255	12.5	14	37
7.5	5	132	3	268	195	348	14	265	230	300	15	5	61
10	7.5	132	3	268	195	380	14	265	230	300	15	5	71



# 油壓臥式長嘴型馬達 HSWG

Hydraulic motor long coupling horizontal type

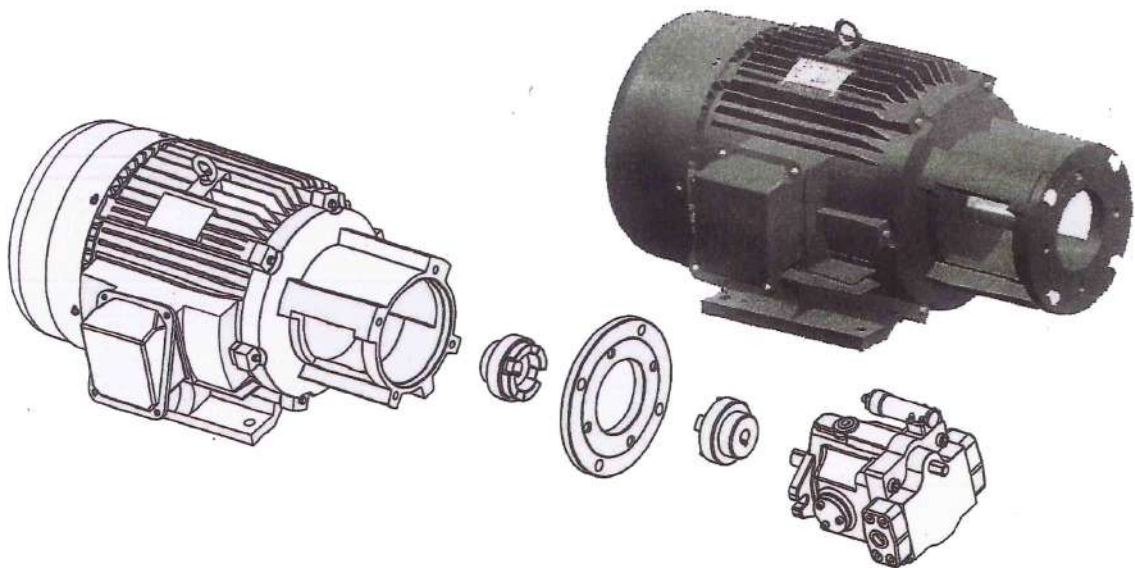


unit:mm

4P	6P	Frame	Phase	A	AA	AB	AC	AD	B	BB	C	H	HA	HD	K	L	axile dimension						kg		
																	D	E	EC	ED	F	G		GA	
1	1/2	90S	3	125	35	155	175	135	100	130	45.5	80	10	170	10	300	19	30	41	30	6	15.5	21.5	14	
2	1	90L	3	140	40	172	196	145	125	157	56	90	10	190	12	370	24	50	45	40	8	20	27	25	
3	2	112S	3	190	47	227	235	169	140	175	50	112	12	265	12	370	28	44	48	40	8	24	31	35.5	
5	3	112M	3	190	46	228	235	166	140	177	66	112	13	265	12	391	28	40	48	40	8	24	31	40	
7.5	5	132S	3	216	50	259	271	191	140	175	74	132	14	310	12	455	38	52	62	50	10	33	41	65	
10	7.5	132M	3	216	50	250	271	191	178	213	72	132	14	310	14	490	38	52	62	50	10	33	41	75	
15	10	160M	3	254	50	300	345	256	210	250	101	160	18	375	15	625	42	60	72	55	12	37	45	125	
20	15	160L	3	254	50	300	345	256	254	300	101	160	18	375	15	670	42	60	72	55	12	37	45	145	
25	30	20	180M	3	279	80	355	389	290	241	297	131	180	20	417	14.5	728	48	70	90	50	14	42.5	51.5	185/230
40	25	30	180L	3	279	80	355	389	290	279	335	131	180	20	417	14.5	766	55	70	90	50	16	49	59	255

# 長咀型馬達型安裝實體圖 HSWG

Assembly drawing



# 油壓立式長嘴型馬達 **HSLG**

# Hydraulic motor long coupling vertical type

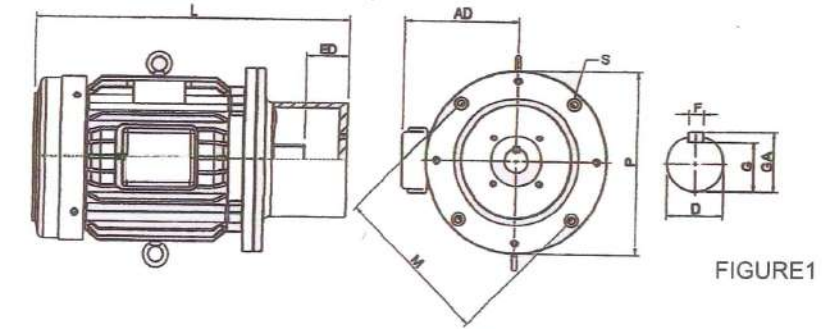


FIGURE1

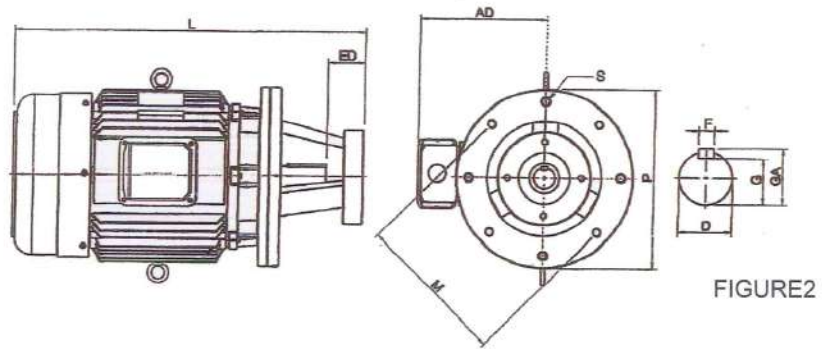


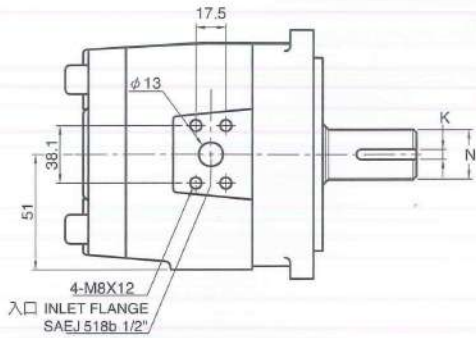
FIGURE2

unit:mm

4P	4P	Phase	Drawings	AD	M	P	S	L	axile dimension					kg
									D	ED	F	G	GA	
7.5	5	3	FIGURE	195	265	300	15	491	38	72	10	33	41	75
10	7.5	3		191	265	300	15	525	38	72	10	33	41	85
15	10	3	FIGURE	250	300	350	19	689	42	78	12	37	45	140
20	15	3		250	300	350	19	733	42	78	12	37	45	165

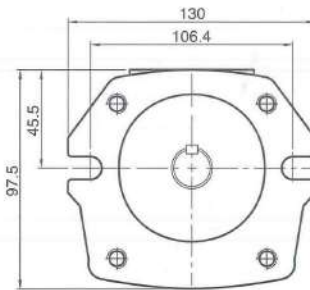
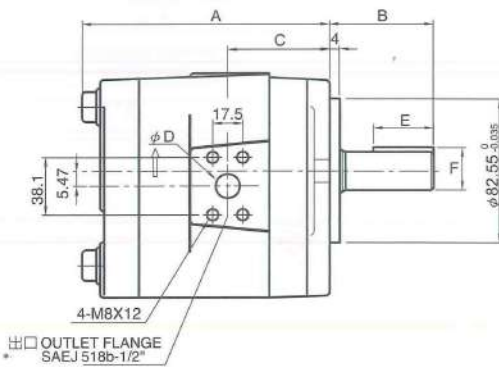
# IGC, IGH, IGM Internal Gear Pump 内啮合齒輪泵

## IG\*-2E\* 法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)

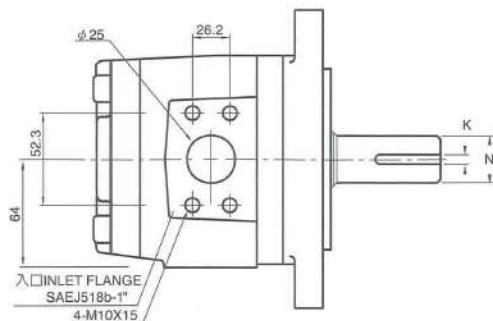


型式Model	A	C	ØD
IG*-2*-3.5	107	51	Ø8.9
IG*-2*-5	112	53.5	Ø11
IG*-2*-6.5	116	55.5	Ø12
IG*-2*-8	121	58	Ø13

型式Model	B	E	F	K	N
IG*-2E-*	41	30	20.5	6/h7	18/h7

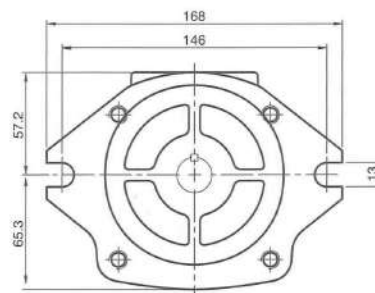
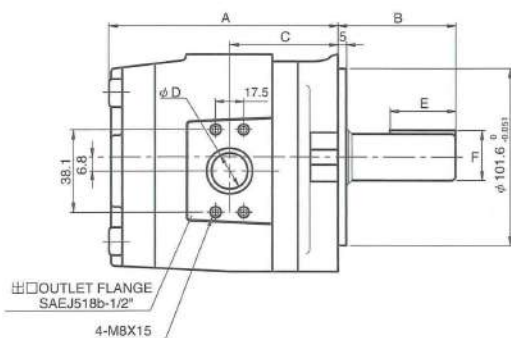


## IG\*3E(F)-\* 法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



型式Model	A	C	ØD
IG*-3*-10	130	60	Ø14
IG*-3*-13	136	63	Ø17
IG*-3*-16	141	65.5	Ø18

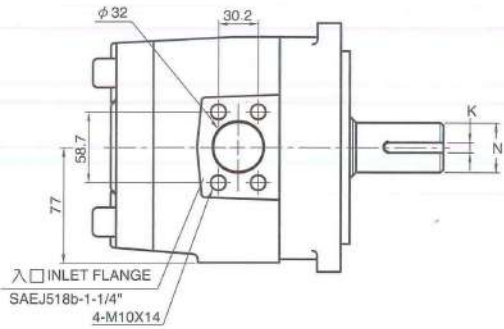
型式Model	B	E	F	K	N
IG*-3E-*	41	30	22.5	6/h7	20/h7
IG*-3F-*	65	38	21.25	4.76/h7	19.05/h7





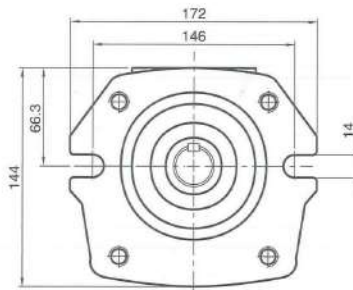
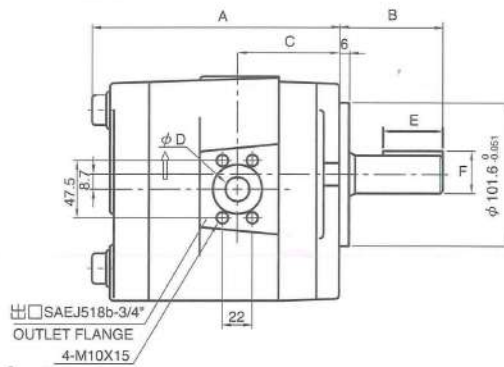
# IGC, IGH, IGM Internal Gear Pump 内啮合齒輪泵

## IG※4E(F)-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)

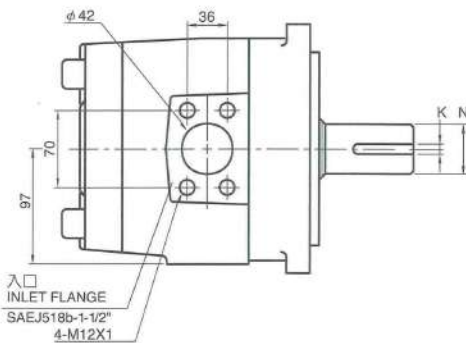


型式Model	A	C	ØD
IG*-4*-20	164	71	Ø18
IG*-4*-25	170	74	Ø20
IG*-4*-32	178	78	Ø24

型式Model	B	E	F	K	N
IG*-4E-*	72	45	28	8/h7	25/h7
IG*-4F-*	78	60	27.85	6.375/h7	25.385/h7

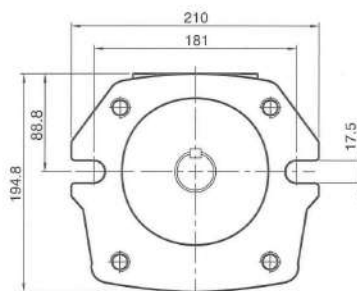
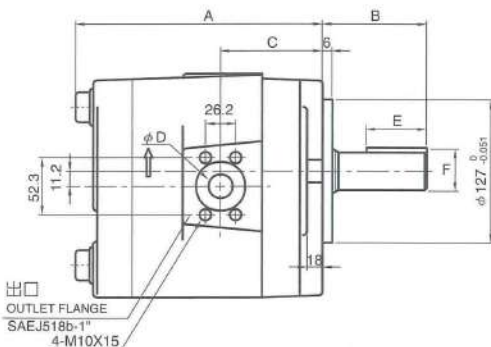


## IG※5E(F)-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



型式Model	A	C	ØD
IG*-5*-40	199	91	Ø24
IG*-5*-50	206	94.5	Ø26
IG*-5*-64	216	99.5	Ø28

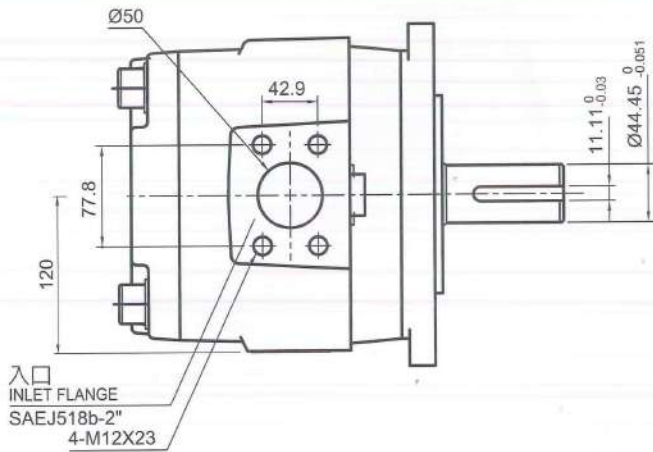
型式Model	B	E	F	K	N
IG*-5E-*	89	50	35	10/h7	32/h7
IG*-5F-*	85	50	35.33	7.938/h7	31.75/h7



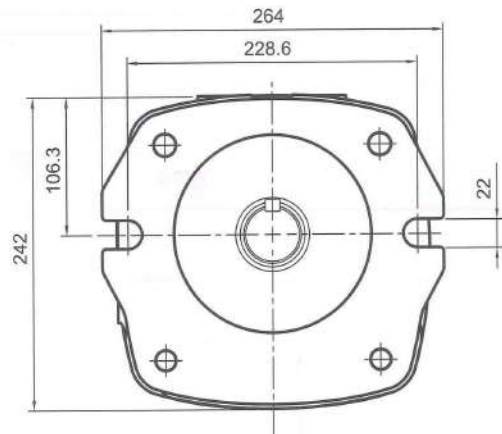
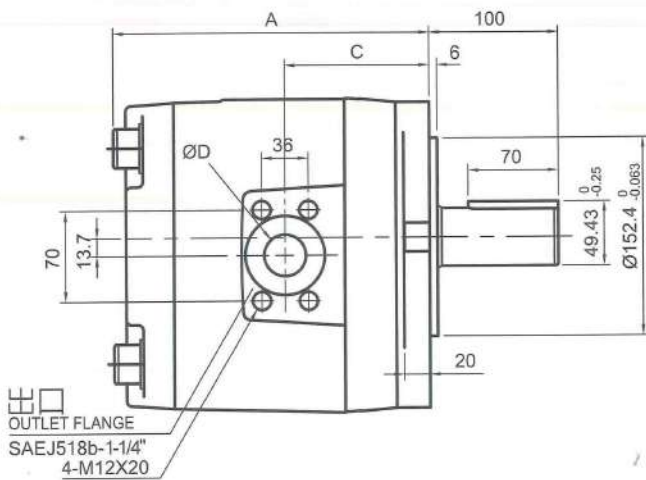
# IGC, IGH, IGM Internal Gear Pump

内啮合齒輪泵

IG\*6F-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



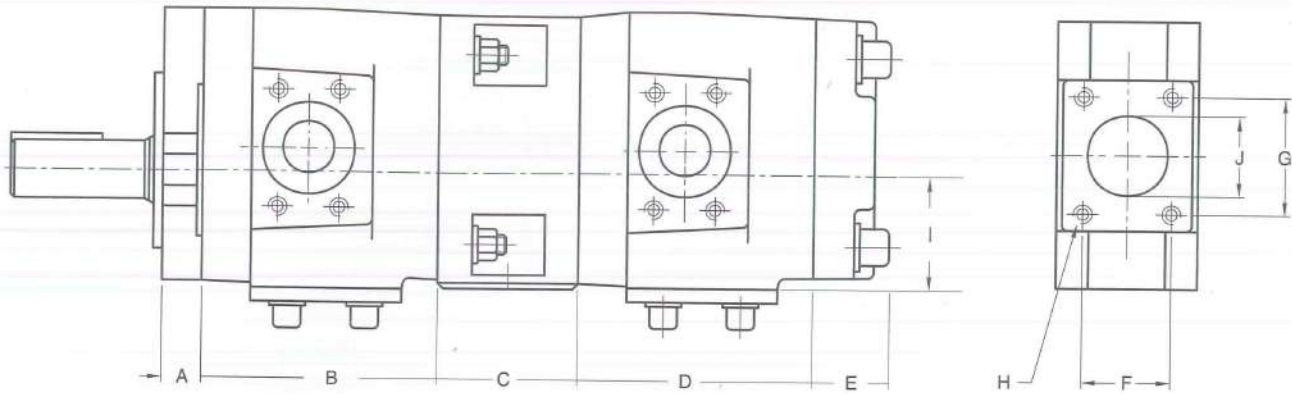
型式Model	A	C	ØD
IG*-6*-80	242.5	111.5	Ø32
IG*-6*-100	252.5	116.5	Ø36
IG*-6*-125	264.5	122.5	Ø38



IGC, IGH, IGM

# Multiple Stage Internal Gear Pump

多聯式內嚙合齒輪泵



相關尺寸說明 / Dimensions

型式Model	IG※2				IG※3			IG※4			IG※5			IG※6		
Displacement	3.5	5.5	6.5	8	10	13	16	20	25	32	40	50	64	80	100	125
A	19	19	19	19	18	18	18	20	20	20	22	22	22	26	26	26
B,D	64	69	73	78	84	90	95	102	108	116	138	145	155	171	181	193
E	24	24	24	24	28	28	28	42	42	42	39	39	39	45	45	45

連接座尺寸 / Dimensions of Connected Housing

型式Model	C	F	G	H	I	J	Inlet Flange
No.2	60	22.2	47.6	M8x12	54.5	Ø20	3/4"
No.3	70	30.2	58.7	M10x14	70.2	Ø31	1-1/4"
No.4	70	36	70	M12x20	74.3	Ø40	1-1/2"
No.5	90	50.8	89	M12x20	90	Ø60	2-1/2"
No.6	110	61.9	106.3	M16x23	108.3	Ø76	3"

單位 unit mm

## 連接座尺寸說明 / Remark of Connected Housing

No.2, 適用於 IG\*-2E /IG\*-2S

No.2, applicable to IG\*-2E(S)/IG\*-2S

No.3, 適用於 IG\*-3E /IG\*-3S(2S)

No.3, applicable to IG\*-3E(S)/IG\*-3S(2S)

No.4, 適用於 IG\*-4E /IG\*-4S(3S, 2S)

No.4, applicable to IG\*-4E(S)/IG\*-4S(3S, 2S)

No.5, 適用於 IG\*-5E /IG\*-5S(4S, 3S, 2S)

No.5, applicable to IG\*-5E(S)/IG\*-5S(4S, 3S, 2S)

No.6, 適用於 IG\*-6E /IG\*-6S(5S, 4S)

No.6, applicable to IG\*-6E(S)/IG\*-6S(5S, 4S)

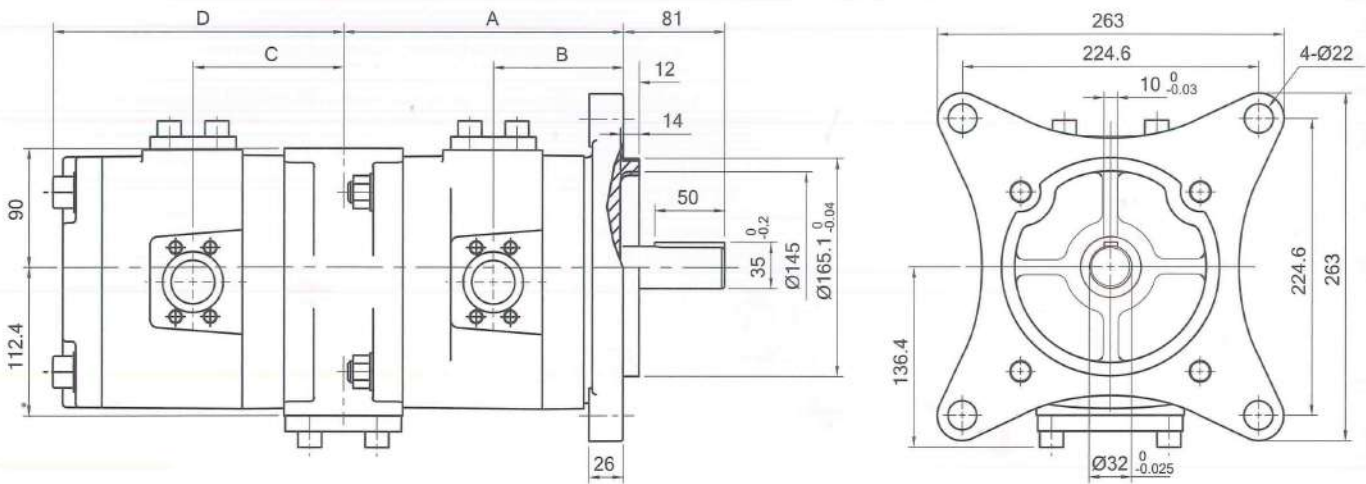
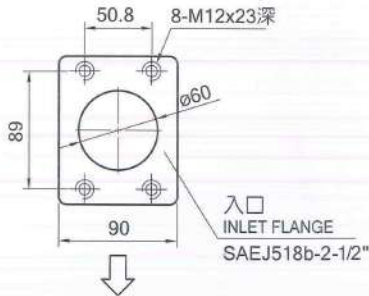




# IGC, IGH, IGM Multiple Stage Internal Gear Pump 多聯式內嚙合齒輪泵

## 尺寸圖 / Dimensions

### ● IG※6+6,(6+5,6+4)



## 相關尺寸說明 / Dimensions

型式Model	IG※6			IG※5			IG※4		
Displacement	80	100	125	40	50	64	20	25	32
A	261	271	283	X					
B	120.5	125.5	131.5						
C	140.5	145.5	151.5	124	127.5	132.5	106	109	113
D	272	282	294	232	239	249	199	205	213

# IGC, IGH, IGM

## Multiple Stage Internal Gear Pump

### 多聯式內齒輪泵

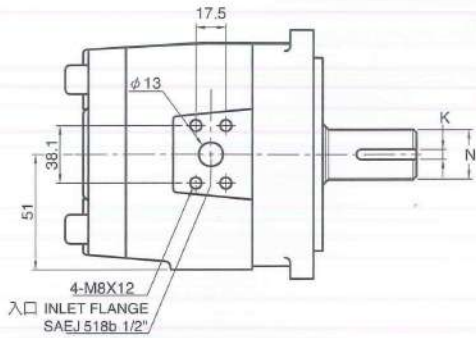
#### 操作指南 / Operating Instruction

1. 液壓油:符合DIN第2及第3部份之HLP油,黏度為ISO 46-68。  
最適操作黏度: 20-100 cSt。  
最大作動黏度: 1500 cSt。  
最小黏度: 15 cSt。
  2. 操作溫度範圍: 5 to 70°C。
  3. 吸入壓力: Absolute 0.8-1.3 kgf/cm<sup>2</sup>。
  4. 過濾器: 吸入口過濾器 100µm。  
回油過濾器: 25 µm。  
壓油清潔度, NAS 1638 第9級。
  5. 流速: 吸油管: 2M /sec。  
壓力管: 5M /sec。  
回油管: 3M /sec。
  6. 運轉: 傳動軸不得承受任何徑向或軸向壓力。  
請使用彈性連軸器, 泵和馬達傳動軸必須緊密連接。  
安裝時不得使用敲擊或任何不當之強力方式。  
請注意泵與馬達之轉動方向是否配合。  
其他藉由鏈條或皮帶傳動時請向我方查詢。
  7. 泵之安裝方向不限, 但請注意在首次操作時務必將空氣排除。
  8. 泵之啟動及停止前請先確定是在無負載狀況下方能為之。
  9. 吸油管及壓力管之連結切勿過緊。
  10. 運轉及初次啟動: 在遵循以上指示後請確認系統及連接機器之設備完全符合國家標準後方得啟動泵。
    - a. 檢查電動馬達之空轉及其轉動方向。
    - b. 泵運轉時應注意油槽之油量是否足夠。  
不足時請先填滿油, 再運轉。
    - c. 泵啟動時應於無負載狀況下運轉。
    - d. 重覆短暫啟動泵(寸動), 直到泵開始供油。
    - e. 在泵開始負載前, 應將系統中的空氣全部排除, 使運轉時不會產生空蝕現象及噪音。
    - f. 注意溫度變化, 當泵表面溫度明顯高於油溫時, 請立刻停止運轉並檢查相關機械設備。
    - g. 液壓設備在修理過程或首次啟動時系統會產生大量污損, 因此應使設備在無負載狀況下運轉並在運轉100小時後更換過濾器, 在更換泵時應特別留意壓油及設備組件之清潔。
    - h. 液壓設備之操作應由經驗豐富及合格之專業人員為之。
1. Hydraulic Oil:  
Use the hydraulic oil viscosity as same as ISO 46-68.  
(Viscosity over 90 cSt). The hydraulic oil cleanness should be kept within NAS 1638, the 9th degree.  
Optimal Operation Viscosity : 20-100 cSt  
Maximum Operation Viscosity: 1500 cSt.  
Minimum Operation Viscosity: 15 cSt.
  2. Operating temperature: 5 to 70°C.
  3. Suction Pressure: Absolute 0.8-1.3 kgf/cm<sup>2</sup>
  4. Filter: Suction strainer 100µm.  
Return filter: 25 µm.  
Hydraulic oil cleanness: NAS 1638 the 9th degree.
  5. Flow speed: Suction Line: 2 M/ Sec.  
Pressure Line: 5 M/sec.  
Return Line: 3 M/sec.
  6. Rotation:  
Do not cause any axial or radial pressure to the drive shaft.  
Use flexible coupling. Tighten closely the pump shaft and motor shaft. Do not use improper way to instal the pump, such as hitting. Be aware of the rotating direction of pump and motor.  
Any other request of installation, please consult with the suppliers.
  7. Bleed the air when pump runs for the first time.
  8. Please make sure the pump is on no-load state when start and stop operation.
  9. Do not fasten too tight when being connect with the suction line and pressure line.
  10. Start-up operation: Following the instruction and all other requirements before start up operation.
    - a. Make sure the rotation of electric motor is correct.
    - b. Check the oil level of oil tank before starting and filling the oil when it is insufficient.
    - c. Repeat power on and off when pump is first running until the pump starts to supply oil.
    - d. Pump should be run under no load state when starting operation.
    - e. Before starting, run the pump under no-load state, bleed the air out of the circuit to prevent noise and cavitation.
    - f. Be aware of the temperature variation: Once the temperature of pump is apparently higher than oil, Stop pump running and check all equipment closely.
    - g. When starting running of pump at the first time or after repair, whole hydraulic system are liable to be contaminated. Please run the pump under no-load state and replace or clean all filters after 100 hours.
    - h. Operation of hydraulic system should be handled by professionals.



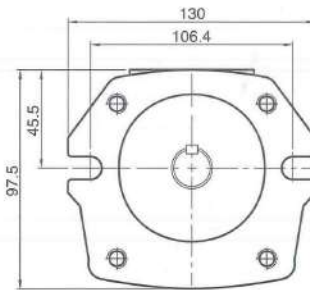
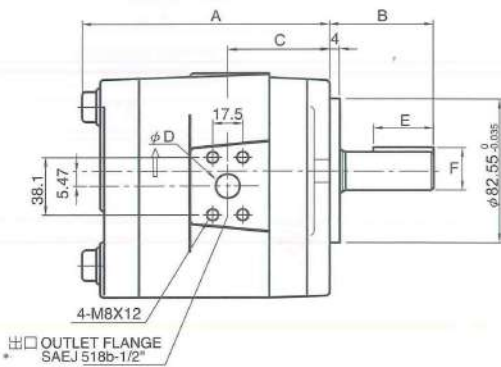
# IGC, IGH, IGM Internal Gear Pump 内啮合齒輪泵

## IG\*-2E\* 法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)

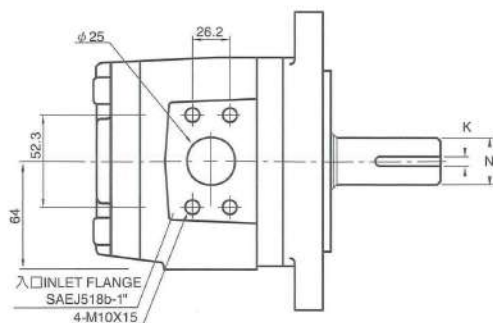


型式Model	A	C	ØD
IG*-2*-3.5	107	51	Ø8.9
IG*-2*-5	112	53.5	Ø11
IG*-2*-6.5	116	55.5	Ø12
IG*-2*-8	121	58	Ø13

型式Model	B	E	F	K	N
IG*-2E-*	41	30	20.5	6/h7	18/h7

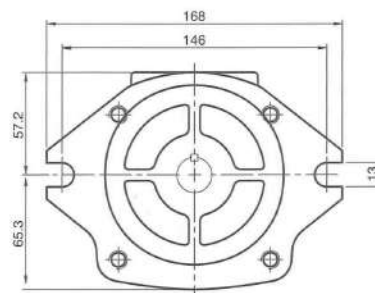
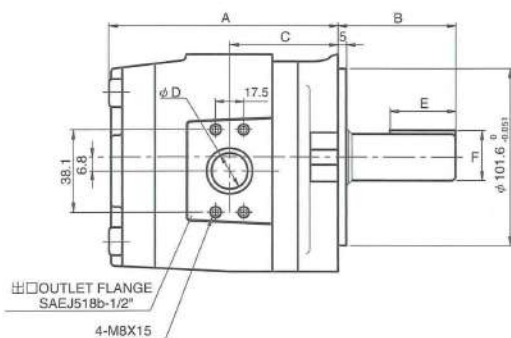


## IG\*3E(F)\* 法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



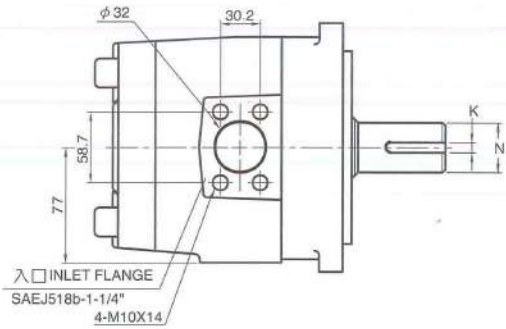
型式Model	A	C	ØD
IG*-3*-10	130	60	Ø14
IG*-3*-13	136	63	Ø17
IG*-3*-16	141	65.5	Ø18

型式Model	B	E	F	K	N
IG*-3E-*	41	30	22.5	6/h7	20/h7
IG*-3F-*	65	38	21.25	4.76/h7	19.05/h7



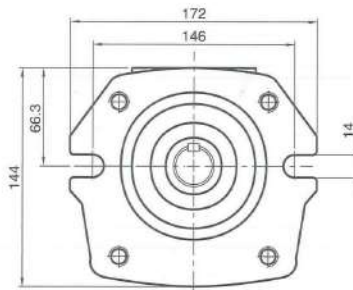
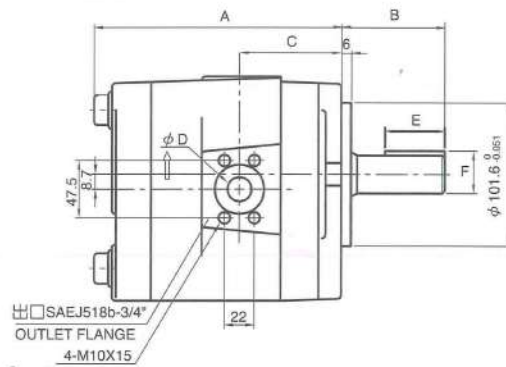
# IGC, IGH, IGM Internal Gear Pump 内啮合齒輪泵

## IG※4E(F)-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)

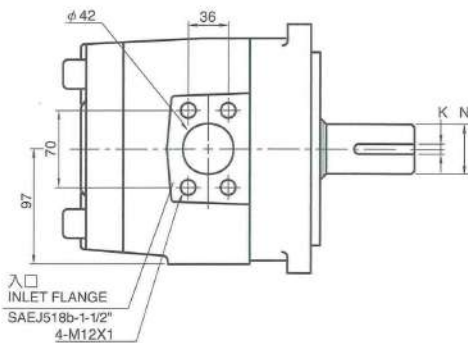


型式Model	A	C	ØD
IG*-4*-20	164	71	Ø18
IG*-4*-25	170	74	Ø20
IG*-4*-32	178	78	Ø24

型式Model	B	E	F	K	N
IG*-4E-*	72	45	28	8/h7	25/h7
IG*-4F-*	78	60	27.85	6.375/h7	25.385/h7

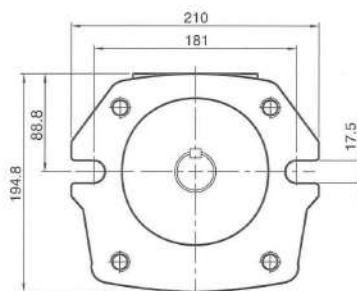
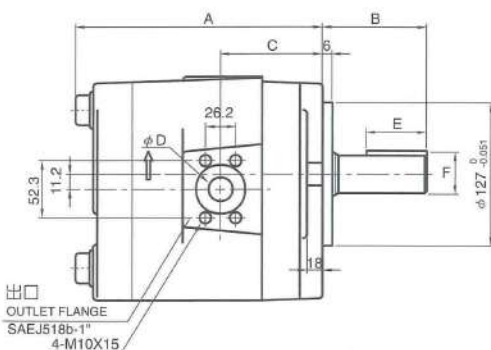


## IG※5E(F)-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



型式Model	A	C	ØD
IG*-5*-40	199	91	Ø24
IG*-5*-50	206	94.5	Ø26
IG*-5*-64	216	99.5	Ø28

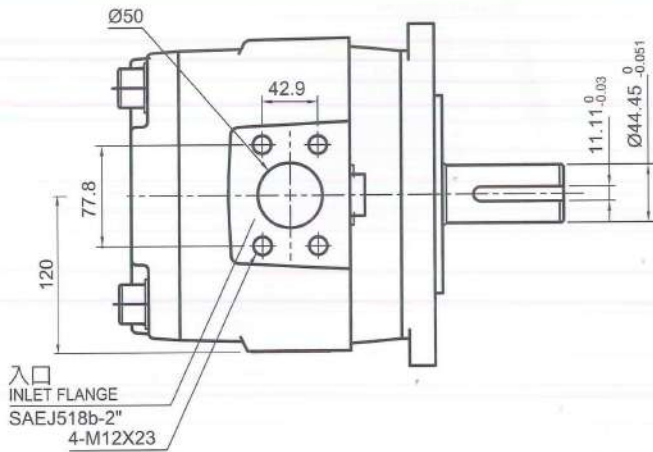
型式Model	B	E	F	K	N
IG*-5E-*	89	50	35	10/h7	32/h7
IG*-5F-*	85	50	35.33	7.938/h7	31.75/h7



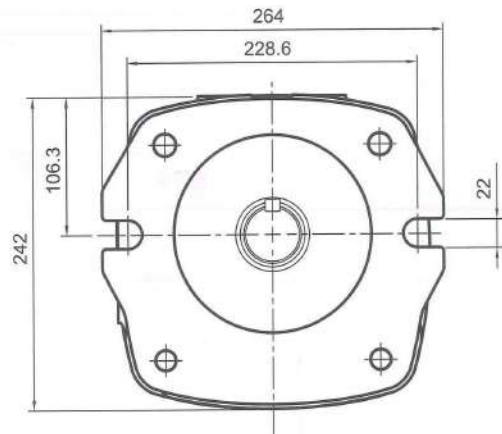
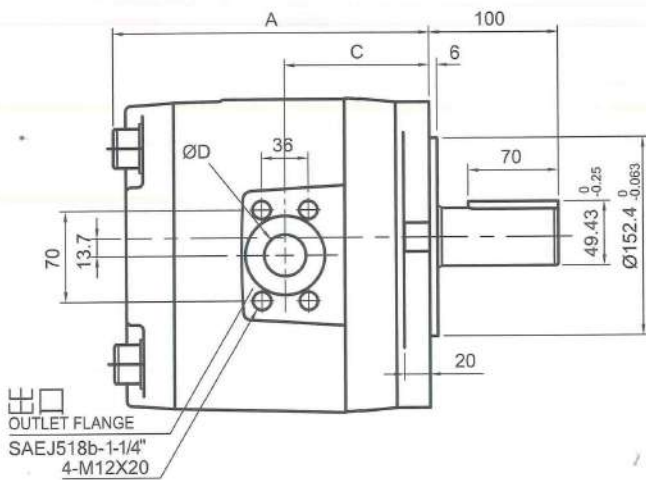
# IGC, IGH, IGM Internal Gear Pump

内啮合齒輪泵

IG\*6F-※法蘭型 (順時針方向回轉) / Flange Type (Clockwise Rotation)



型式Model	A	C	ØD
IG*-6*-80	242.5	111.5	Ø32
IG*-6*-100	252.5	116.5	Ø36
IG*-6*-125	264.5	122.5	Ø38

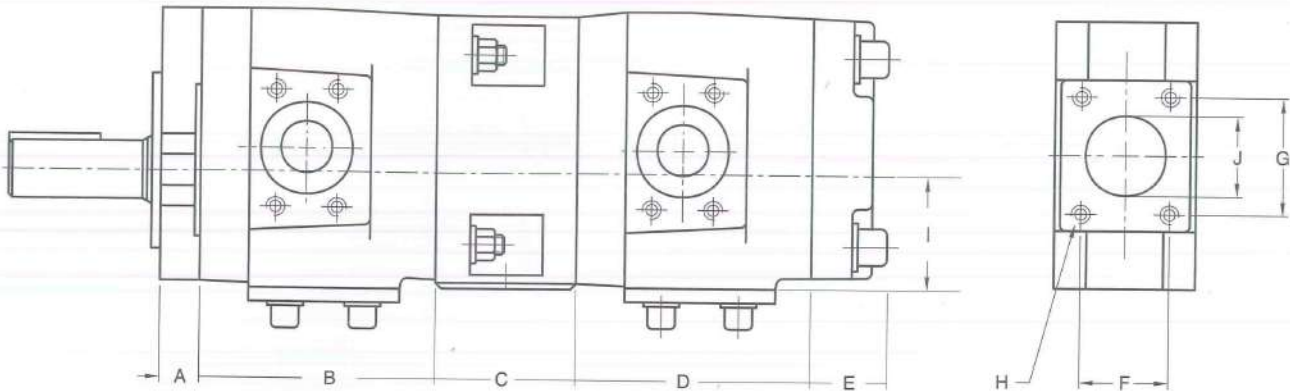




IGC, IGH, IGM

# Multiple Stage Internal Gear Pump

多聯式內嚙合齒輪泵



相關尺寸說明 / Dimensions

型式Model	IG※2				IG※3			IG※4			IG※5			IG※6		
Displacement	3.5	5.5	6.5	8	10	13	16	20	25	32	40	50	64	80	100	125
A	19	19	19	19	18	18	18	20	20	20	22	22	22	26	26	26
B,D	64	69	73	78	84	90	95	102	108	116	138	145	155	171	181	193
E	24	24	24	24	28	28	28	42	42	42	39	39	39	45	45	45

連接座尺寸 / Dimensions of Connected Housing

型式Model	C	F	G	H	I	J	Inlet Flange
No.2	60	22.2	47.6	M8x12	54.5	Ø20	3/4"
No.3	70	30.2	58.7	M10x14	70.2	Ø31	1-1/4"
No.4	70	36	70	M12x20	74.3	Ø40	1-1/2"
No.5	90	50.8	89	M12x20	90	Ø60	2-1/2"
No.6	110	61.9	106.3	M16x23	108.3	Ø76	3"

單位 unit mm

## 連接座尺寸說明 / Remark of Connected Housing

No.2, 適用於 IG\*-2E / IG\*-2S

No.2, applicable to IG\*-2E(S)/IG\*-2S

No.3, 適用於 IG\*-3E / IG\*-3S(2S)

No.3, applicable to IG\*-3E(S)/IG\*-3S(2S)

No.4, 適用於 IG\*-4E / IG\*-4S(3S, 2S)

No.4, applicable to IG\*-4E(S)/IG\*-4S(3S, 2S)

No.5, 適用於 IG\*-5E / IG\*-5S(4S, 3S, 2S)

No.5, applicable to IG\*-5E(S)/IG\*-5S(4S, 3S, 2S)

No.6, 適用於 IG\*-6E / IG\*-6S(5S, 4S)

No.6, applicable to IG\*-6E(S)/IG\*-6S(5S, 4S)

YTK CO.,LTD.

[Http://www.ytk-group.co.jp](http://www.ytk-group.co.jp)

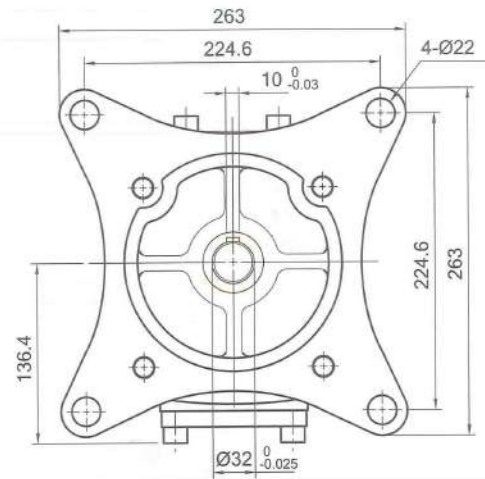
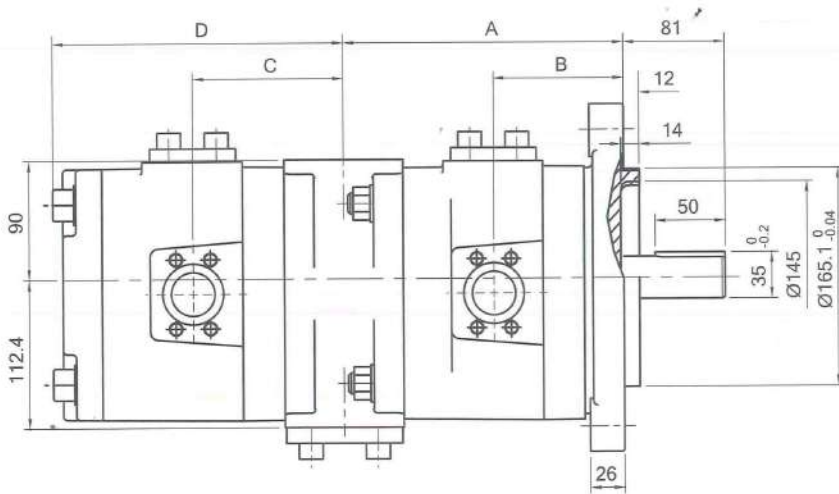
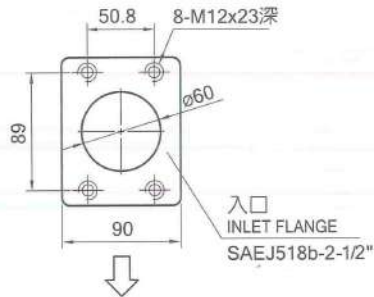
IGC, IGH, IGM

# Multiple Stage Internal Gear Pump

多聯式內齒合齒輪泵

## 尺寸圖 / Dimensions

● IG※5+5,(5+4)



## 相關尺寸說明 / Dimensions

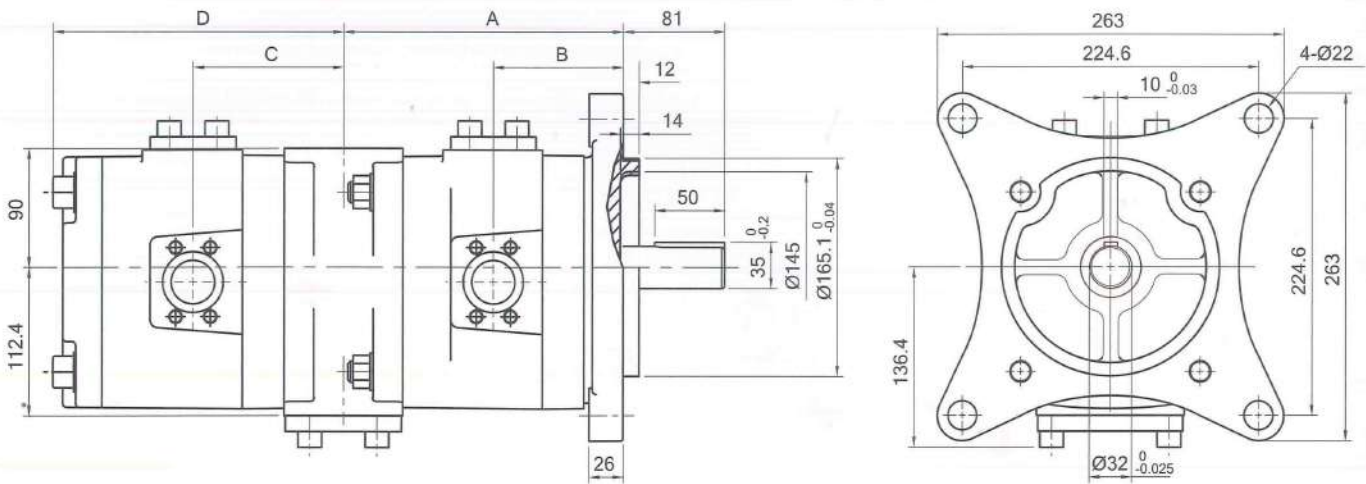
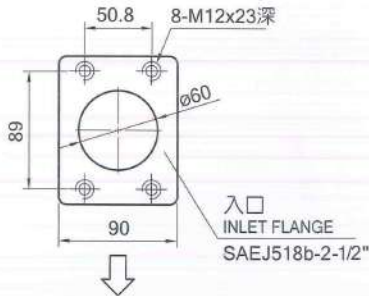
型式Model	IG※5			IG※4		
Displacement	40	50	64	20	25	32
A	213	220	230	X		
B	99	102.5	107.5			
C	114	117.5	122.5	96	99	103
D	222	229	239	189	195	203



# IGC, IGH, IGM Multiple Stage Internal Gear Pump 多聯式內嚙合齒輪泵

## 尺寸圖 / Dimensions

### ● IG※6+6,(6+5,6+4)



## 相關尺寸說明 / Dimensions

型式Model	IG※6			IG※5			IG※4		
Displacement	80	100	125	40	50	64	20	25	32
A	261	271	283	X					
B	120.5	125.5	131.5						
C	140.5	145.5	151.5	124	127.5	132.5	106	109	113
D	272	282	294	232	239	249	199	205	213

# IGC, IGH, IGM

## Multiple Stage Internal Gear Pump

### 多聯式內齒輪泵

#### 操作指南 / Operating Instruction

1. 液壓油:符合DIN第2及第3部份之HLP油,黏度為ISO 46-68。  
最適操作黏度: 20-100 cSt。  
最大作動黏度: 1500 cSt。  
最小黏度: 15 cSt。
  2. 操作溫度範圍: 5 to 70°C。
  3. 吸入壓力: Absolute 0.8-1.3 kgf/cm<sup>2</sup>。
  4. 過濾器: 吸入口過濾器 100µm。  
回油過濾器: 25 µm。  
壓油清潔度, NAS 1638 第9級。
  5. 流速: 吸油管: 2M /sec。  
壓力管: 5M /sec。  
回油管: 3M /sec。
  6. 運轉: 傳動軸不得承受任何徑向或軸向壓力。  
請使用彈性連軸器, 泵和馬達傳動軸必須緊密連接。  
安裝時不得使用敲擊或任何不當之強力方式。  
請注意泵與馬達之轉動方向是否配合。  
其他藉由鏈條或皮帶傳動時請向我方查詢。
  7. 泵之安裝方向不限, 但請注意在首次操作時務必將空氣排除。
  8. 泵之啟動及停止前請先確定是在無負載狀況下方能為之。
  9. 吸油管及壓力管之連結切勿過緊。
  10. 運轉及初次啟動: 在遵循以上指示後請確認系統及連接機器之設備完全符合國家標準後方得啟動泵。
    - a. 檢查電動馬達之空轉及其轉動方向。
    - b. 泵運轉時應注意油槽之油量是否足夠。  
不足時請先填滿油, 再運轉。
    - c. 泵啟動時應於無負載狀況下運轉。
    - d. 重覆短暫啟動泵(寸動), 直到泵開始供油。
    - e. 在泵開始負載前, 應將系統中的空氣全部排除, 使運轉時不會產生空蝕現象及噪音。
    - f. 注意溫度變化, 當泵表面溫度明顯高於油溫時, 請立刻停止運轉並檢查相關機械設備。
    - g. 液壓設備在修理過程或首次啟動時系統會產生大量污損, 因此應使設備在無負載狀況下運轉並在運轉100小時後更換過濾器, 在更換泵時應特別留意壓油及設備組件之清潔。
    - h. 液壓設備之操作應由經驗豐富及合格之專業人員為之。
1. Hydraulic Oil:  
Use the hydraulic oil viscosity as same as ISO 46-68.  
(Viscosity over 90 cSt). The hydraulic oil cleanness should be kept within NAS 1638, the 9th degree.  
Optimal Operation Viscosity : 20-100 cSt  
Maximum Operation Viscosity: 1500 cSt.  
Minimum Operation Viscosity: 15 cSt.
  2. Operating temperature: 5 to 70°C.
  3. Suction Pressure: Absolute 0.8-1.3 kgf/cm<sup>2</sup>
  4. Filter: Suction strainer 100µm.  
Return filter: 25 µm.  
Hydraulic oil cleanness: NAS 1638 the 9th degree.
  5. Flow speed: Suction Line: 2 M/ Sec.  
Pressure Line: 5 M/sec.  
Return Line: 3 M/sec.
  6. Rotation:  
Do not cause any axial or radial pressure to the drive shaft.  
Use flexible coupling. Tighten closely the pump shaft and motor shaft. Do not use improper way to instal the pump, such as hitting. Be aware of the rotating direction of pump and motor.  
Any other request of installation, please consult with the suppliers.
  7. Bleed the air when pump runs for the first time.
  8. Please make sure the pump is on no-load state when start and stop operation.
  9. Do not fasten too tight when being connect with the suction line and pressure line.
  10. Start-up operation: Following the instruction and all other requirements before start up operation.
    - a. Make sure the rotation of electric motor is correct.
    - b. Check the oil level of oil tank before starting and filling the oil when it is insufficient.
    - c. Repeat power on and off when pump is first running until the pump starts to supply oil.
    - d. Pump should be run under no load state when starting operation.
    - e. Before starting, run the pump under no-load state, bleed the air out of the circuit to prevent noise and cavitation.
    - f. Be aware of the temperature variation: Once the temperature of pump is apparently higher than oil, Stop pump running and check all equipment closely.
    - g. When starting running of pump at the first time or after repair, whole hydraulic system are liable to be contaminated. Please run the pump under no-load state and replace or clean all filters after 100 hours.
    - h. Operation of hydraulic system should be handled by professionals.