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## IGP1, 2, 3 (02T Series)

High pressure Internal Gear Pump - Suitable for 3000 rpm  
IGP1-cc/rev-8.....25  
IGP2-cc/rev-25.....  
63 IGP3-cc/rev-80.....200  
Maximum operating pressure 315bar  
Single, Double & Triple pump  
Pump also available with larger Suction & Delivery ports



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## Features

- Adopting the design of direction checking and radial pressure compensation, even at low speed and low viscosity, it can still maintain high capacity efficiency.
- Ultra-low noise, the use of high-strength cast iron and a unique noise-absorbing design inside make the noise even lower.
- Low flow rate and pressure pulsation can maintain stable flow rate and pressure output even at low speed. High pressure design, the maximum working pressure can reach 350bar.
- The speed range is wide, and the maximum speed can reach 3000 r/min.
- It is not sensitive to oil pollution and has a long service life.
- It can be widely used in industries, such as hydraulic systems in industries such as fort machines, shoe machines, presses and electric forklifts, especially Energy-saving system suitable for sub-servo frequency conversion.

## High Speed type:

- It is specially designed and developed to meet the requirements of high voltage and high speed servo inverter drive.
- Through the analysis of the flow rate of oil suction and pressure oil under high-speed and high-pressure conditions, the internal oil passages are re-healthy and part of the oil is absorbed design with enlarged mouth. Optimize the internal structure of the product, improve the dynamic stability of the pressure compensation structure and increase the countability of the product.

## Ordering code

IGP	(H)	2	-050	02T/ R	P	W	-S	-S10																														
Internal gear pump = IGP																																						
Standard From Series 2 & 3 apply (Larger suction & delivery ports)	= No code = H							Water Glycol Applications																														
Frame Sizes 8, 10, 13, 16, 20 25, 32, 40, 50, 63 80, 100, 125, 145, 160	= 1 = 2 = 3						S =	Flange installation form SAE 2 hole mounting flange																														
Flow cc/rev (Frame size 1, 2, 3)							V = W =	Seals FKM Seals NBR Seals																														
<table border="1"> <thead> <tr> <th colspan="5">FS-1</th> </tr> <tr> <th>8</th> <th>10</th> <th>13</th> <th>16</th> <th>20</th> </tr> </thead> <tbody> <tr> <td colspan="5">FS-2</td> </tr> <tr> <td>25</td> <td>32</td> <td>40</td> <td>50</td> <td>63</td> </tr> <tr> <td colspan="5">FS-3</td> </tr> <tr> <td>80</td> <td>100</td> <td>125</td> <td>145</td> <td>160 200</td> </tr> </tbody> </table>	FS-1					8	10	13	16	20	FS-2					25	32	40	50	63	FS-3					80	100	125	145	160 200							P = S =	Shaft Parallel Splined
FS-1																																						
8	10	13	16	20																																		
FS-2																																						
25	32	40	50	63																																		
FS-3																																						
80	100	125	145	160 200																																		
<div></div> = larger suction & delivery ports																																						
Series				= 02T				Direction of rotation (Views on shaft) Clockwise Counter-clockwise R = L =																														

### IGP-01T Series Model Code wise Spigot & Port details (Parallel Shaft)

IGP-02T Series is the new & optimised pump for better performance with higher r/min, pressure & suction properties all future supplies will be IGP-02T Series as standard. IGP-01T Series can supplied on request upon confirmation.

Model Code	Size	Spigot	Shaft Dia.	Suction (S)	Delivery (P)	UID
IGP1-08-01T/R-VPC	8	Ø82.55	Ø20	Ø20	Ø13	T008010101
IGP1-10-01T/R-VPC	10	Ø82.55	Ø20	Ø20	Ø13	T010010111
IGP1-13-01T/R-VPC	13	Ø82.55	Ø20	Ø20	Ø13	T013010121
IGP1-16-01T/R-VPC	16	Ø82.55	Ø20	Ø20	Ø13	T016010131
IGP1-20-01T/R-VPC	20	Ø82.55	Ø20	Ø26	Ø20	T020010141
IGP2-25-01T/R-VPC	25	Ø101.6	Ø25	Ø32	Ø18	T025010151
IGP2-32-01T/R-VPC	32	Ø101.6	Ø25	Ø32	Ø18	T032010161
IGP2-40-01T/R-VPC	40	Ø101.6	Ø25	Ø32	Ø20	T040010171
IGP2-50-01T/R-VPC	50	Ø101.6	Ø25	Ø32	Ø20	T050010181
IGP2-63-01T/R-VPC	63	Ø101.6	Ø25	Ø32	Ø20	T063010191
IGP3-80-01T/R-VPC	80	Ø152.4	Ø40	Ø51	Ø32	T080010201
IGP3-100-01T/R-VPC	100	Ø152.4	Ø40	Ø51	Ø32	T010010101
IGP3-125-01T/R-VPC	125	Ø152.4	Ø40	Ø64	Ø38	T012501101
IGP3-160-01T/R-VPC	160	Ø152.4	Ø40	Ø76	Ø38	T016001101


### IGP-01T Series Model Code wise Spigot & Port details (Spline Shaft)

Model Code	Sizes	Spigot	Shaft	Suction (S)	Delivery (P)	UID
IGP1-08-01T/R-VPC	8	Ø82.55	9T 16/32 DP30°	Ø20	Ø13	T008010102
IGP1-10-01T/R-VPC	10	Ø82.55	9T 16/32 DP30°	Ø20	Ø13	T010010112
IGP1-13-01T/R-VPC	13	Ø82.55	9T 16/32 DP30°	Ø20	Ø13	T013010122
IGP1-16-01T/R-VPC	16	Ø82.55	9T 16/32 DP30°	Ø20	Ø13	T016010132
IGP1-20-01T/R-VPC	20	Ø82.55	9T 16/32 DP30°	Ø26	Ø20	T020010142
IGP2-25-01T/R-VPC	25	Ø101.6	15T 16/32 DP30°	Ø32	Ø18	T025010152
IGP2-32-01T/R-VPC	32	Ø101.6	15T 16/32 DP30°	Ø32	Ø18	T032010162
IGP2-40-01T/R-VPC	40	Ø101.6	15T 16/32 DP30°	Ø32	Ø20	T040010172
IGP2-50-01T/R-VPC	50	Ø101.6	15T 16/32 DP30°	Ø32	Ø20	T050010182
IGP2-63-01T/R-VPC	63	Ø101.6	15T 16/32 DP30°	Ø32	Ø20	T063010192
IGP3-80-01T/R-VPC	80	Ø152.4	17T 12/24 DP30°	Ø51	Ø32	T080010202
IGP3-100-01T/R-VPC	100	Ø152.4	17T 12/24 DP30°	Ø51	Ø32	T010010102
IGP3-125-01T/R-VPC	125	Ø152.4	17T 12/24 DP30°	Ø64	Ø38	T012501102
IGP3-160-01T/R-VPC	160	Ø152.4	17T 12/24 DP30°	Ø76	Ø38	T016001102

### IGP-02T Series Model Code wise Spigot & Port details (Parallel Shaft)

Model Code	Sizes	Spigot	Shaft Dia.	Suction (S)	Suction Flange Sizes	Delivery (P)	Delivery Flange Sizes	UID
IGP1-08-02T/R-PVS	8	Ø82.55	Ø20	Ø20	G3/4(C-61)	Ø13	G1/2(C-61)	T008010106
IGP1-10-02T/R-PVS	10	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T010010113
IGP1-13-02T/R-PVS	13	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T013010123
IGP1-16-02T/R-PVS	16	Ø82.55	Ø20	Ø20	G1(C-61)	Ø13	G1/2(C-61)	T016010133
IGP1-20-02T/R-PVS	20	Ø82.55	Ø20	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T020010143
IGP1-25-02T/R-PVS	25	Ø82.55	Ø20	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T025010156
IGP2-25-02T/R-PVS	25	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T025010154
IGP2-32-02T/R-PVS	32	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T032010166
IGP2-40-02T/R-PVS	40	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T040010177
IGP(H)2-40-02T/R-PVS	40	Ø101.6	Ø25	Ø38	G1 1/2(C-61)	Ø20	G1(C-61)	T040010174
IGP2-50-02T/R-PVS	50	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T050010188
IGP(H)2-50-02T/R-PVS	50	Ø101.6	Ø25	Ø51	G2(C-61)	Ø25.4	G1 (C-62)	T050010184
IGP2-63-02T/R-PVS	63	Ø101.6	Ø25	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T063010198
IGP(H)2-63-02T/R-PVS	63	Ø101.6	Ø25	Ø51	G2(C-61)	Ø32	G1 1/4 (C-62)	T063010195
IGP3-80-02T/R-PVS	80	Ø152.4	Ø40	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T080010206
IGP3-100-02T/R-PVS	100	Ø152.4	Ø40	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T010010105
GP(H)3-100-02T/R-PVS	100	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø32	G1 1/2(C-61)	T010010104
IGP3-125-02T/R-PVS	125	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T012501105
IGP3-145-02T/R-PVS	145	Ø152.4	Ø40	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T014501103
GP(H)3-145-02T/R-PVS	145	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T014501101
IGP3-160-02T/R-PVS	160	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T016001103
IGP3-200-02T/R-PVS	200	Ø152.4	Ø40	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T020011001

Note:-


1.  = larger suction & delivery ports
2. The model code/UID shown above which are not shaded can be considered as 01T series for reference purpose only.
3. 02T Series pumps are all suitable for 3000 RPM.
4. 02T Series pumps are suitable for high pressure range than 01T series. Information of Flanges:
  1. SAE Flanges code 61 = C-61
  2. SAE Flanges code 62 = C-62



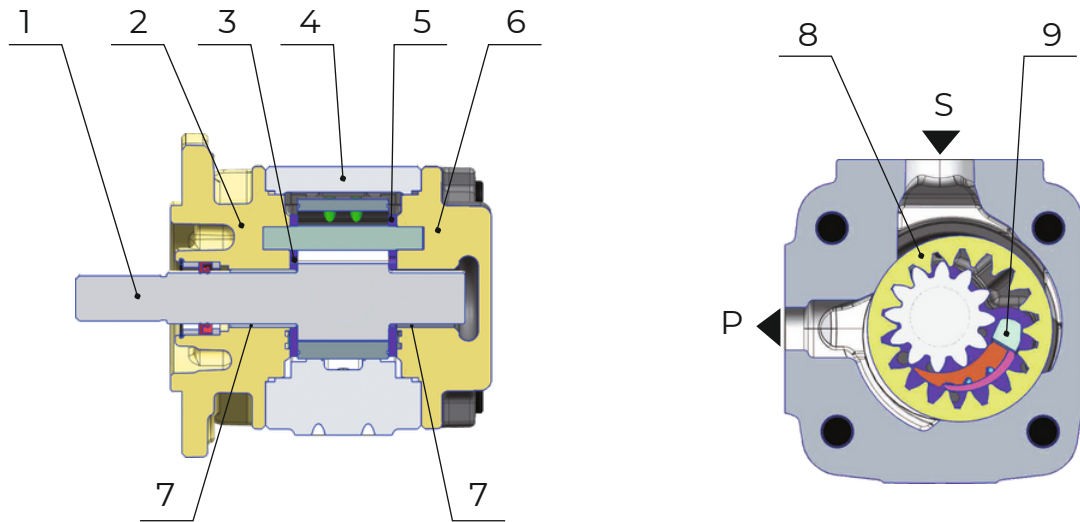
## IGP-02T Series Model Code wise Spigot & Port details (Spline Shaft)

Model Code	Sizes	Spigot	Shaft	Suction (S)	Suction Flange Sizes	Delivery (P)	Delivery Flange Sizes	UID
IGP1-08-02T/R-SVS	8	Ø82.55	9T 16/32 DP30°	Ø20	G3/4(C-61)	Ø13	G1/2(C-61)	T008010107
IGP1-10-02T/R-SVS	10	Ø82.55	9T 16/32 DP30°	Ø20	G1 (C-61)	Ø13	G1/2(C-61)	T010010114
IGP1-13-02T/R-SVS	13	Ø82.55	9T 16/32 DP30°	Ø20	G1 (C-61)	Ø13	G1/2(C-61)	T013010124
IGP1-16-02T/R-SVS	16	Ø82.55	9T 16/32 DP30°	Ø20	G1 (C-61)	Ø13	G1/2(C-61)	T016010134
IGP1-20-02T/R-SVS	20	Ø82.55	9T 16/32 DP30°	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T020010144
IGP1-25-02T/R-SVS	25	Ø82.55	9T 16/32 DP30°	Ø26	G1 1/4(C-61)	Ø20	G3/4(C-61)	T025010157
IGP2-25-02T/R-SVS	25	Ø101.6	15T 16/32 DP30°	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T025010155
IGP2-32-02T/R-SVS	32	Ø101.6	15T 16/32 DP30°	Ø32	G1 1/4(C-61)	Ø18	G3/4(C-61)	T032010167
IGP2-40-02T/R-SVS	40	Ø101.6	15T 16/32 DP30°	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T040010178
IGP(H)2-40-02T/R-SVS	40	Ø101.6	15T 16/32 DP30°	Ø38	G1 1/2(C-61)	Ø20	G1(C-61)	T040010179
IGP2-50-02T/R-SVS	50	Ø101.6	15T 16/32 DP30°	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T050010189
IGP(H)2-50-02T/R-SVS	50	Ø101.6	15T 16/32 DP30°	Ø51	G2(C-61)	Ø25.4	G1 (C-62)	T050010190
IGP2-63-02T/R-SVS	63	Ø101.6	15T 16/32 DP30°	Ø32	G1 1/4(C-61)	Ø20	G1(C-61)	T063010199
IGP(H)2-63-02T/R-SVS	63	Ø101.6	15T 16/32 DP30°	Ø51	G2(C-61)	Ø32	G1 1/4 (C-62)	T063010200
IGP3-80-02T/R-SVS	80	Ø152.4	17T 12/24 DP30°	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T080010207
IGP3-100-02T/R-SVS	100	Ø152.4	17T 12/24 DP30°	Ø51	G2(C-61)	Ø32	G1 1/2(C-61)	T010010106
IGP(H)3-100-02T/R-SVS	100	Ø152.4	17T 12/24 DP30°	Ø64	G2 1/2(C-61)	Ø32	G1 1/2(C-61)	T010010107
IGP3-125-02T/R-SVS	125	Ø152.4	17T 12/24 DP30°	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T012501106
IGP3-145-02T/R-SVS	145	Ø152.4	17T 12/24 DP30°	Ø64	G2 1/2(C-61)	Ø38	G1 1/2 (C-62)	T014501104
GP(H)3-145-02T/R-SVS	145	Ø152.4	17T 12/24 DP30°	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T014501105
IGP3-160-02T/R-SVS	160	Ø152.4	17T 12/24 DP30°	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T016001104
IGP3-200-02T/R-SVS	200	Ø152.4	17T 12/24 DP30°	Ø76	G3(C-61)	Ø38	G1 1/2 (C-62)	T020011002

Note:-

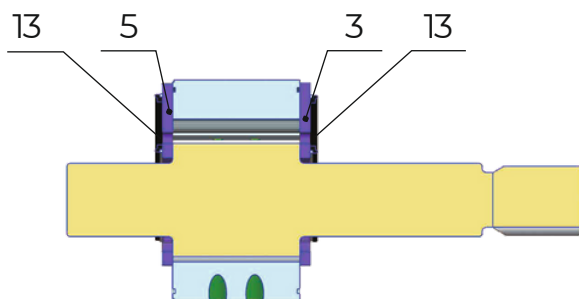
1.  = larger suction & delivery ports
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  2. SAE Flanges code 62 = C-62

## Function Section

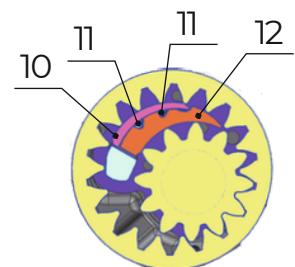


1. gear rotation, 2. Front end cover, 3. Front oil distribution plate, 4. Ticket off, 5. Rear oil distribution plate, 6. Rear end cover, 7. Sliding inspection bearing, 8. Internal teeth, 9. Positioning rod, 10. crescent (sub-plate) plastic off, 12. crescent main board

**Oil absorption and discharge process** the gear shaft (1) installed according to the flow dynamics the internal teeth in the direction of rotation shown Circle(8). Fill the oil through the tooth flank gap opened in the suction zone. Oil passes through the teeth The tooth flank clearance between the axle and the ring gear is transported from the oil suction area (S) to the pressure area Domain (P). Therefore, the oil is discharged from the closed tooth gap and delivered to the pressure port (P). The oil suction area and the discharge area are combined by radial compensation elements (10 to 12) and internal. The gears and gear shafts are separated from each other. Axial compensation: the discharge chamber in the pressure area is entered by the front and rear oil distribution plates (3) (5) Line axial seal. The side of the axial gasket facing away from the discharge area is back pressured by the pressure filed (13). These ones the pressure filed balances between the axial gasket and the discharge area, thereby reducing the mechanical the loss achieves the ideal sealing effect.



**Radial Compensation** Radial compensation components include crescent sub- plate (12) and plastic stick (11). The crescent sub-plate (10) and the crescent main plate (12) are arranged in the pressure field, so the production. The production pressure is basically determined by the positioning pin. A small pressure component presses the crescent main plate to the gear ring tooth tip so that it can pass through the automatic clearance adjust to separate the pressure area from the suction area separate. This is a continuous guarantee throughout the working hours A prerequisite for maintaining high efficiency. The sound gap adjustment of the crescent sub-board and the crescent main board. The adjustment can be done through the middle plastic rod.



### Hydrodynamic and hydrostatic installation

The gear shaft(1) is supported by a hydrodynamically lubricated radial sliding bearing (7). The ring gear (8) is installed in the pump body (4) in a hydrostatic manner. **Meshing** The gusset of the gradual opening money tooth has a long gusset for lower flow and pressure pulsation therefore, it can ensure low noise.

## Specifications

### Overview

Design Connection	Internal gear pump, indirect risk compensation Flange
type Pipeline	with hole in accordance with SAE 2 standard of ISO
connection Shaft load	3019-1 Flange port Only adjusted radial and axial forces
Rotation direction	Clockwise or counter-clockwise (Available on request)
(View from shaft end)	not two way rotation

Hydraulic oil		HLP-Mineral oil in accordance with DIN 51524 part 2 HFC-Aqueous polymer solution according top DIN EN ISO1292211)2) Sealing Design W HEES-Hydraulic oil in accordance with DIN ISO 153801) HFD- U - Conform to VDMA243171), DIN EN ISO129221) hydraulic oil  It is recommended to use 50VG46 ant-wear hydraulic oils can be provided on request
Hydraulic oil temperature range	HLP Hydraulic oil	-10°C to +80°C for other temperature please consult us.
	Special Hydraulic oil	-10°C to +50°C for other temperature please consult us.
Ambient temperature range °C		-20+60
Viscosity range mm/s		10 to 300 (recommended to n= 2000 r/min)
		10 to 100 (recommended to n= 3000 r/min)
To minimum allowable pollution degree of hydraulic oil complies with ISO 4406© cleanliness level		level 20/18/153)

Notes: 1 )For these media, restrictions on special hydraulic oils may apply.

2 )Hydraulic oil HFC; input speed n= 2000 r/min.

3 )In the hydraulic system, the specified component cleanliness level must be followed, and effective filtering can avoid

failures, and at the same time, it can extend component service life.

## Specifications

Series		IGP1				
Specifications		8	10	13	16	20
Weight		4.6	4.8	4.9	5.2	5.6
Speed range1)	nmin. nmax. r/min	600	600	600	600	600
	V r/min	3000	3000	3000	3000	3000
Displacement	qv ml/r	8.2	10.2	13.3	16.0	20.0
Flow2)	l/min	12.2	15.1	19.7	23.7	29.6
Moment of inertia (around the drive shaft)		0.00018	0.00019	0.00025	0.00027	0.00037
Working pressure, absolute value enter P bar		0.8 to 2 (short, 0.6bar at startup)				
Nominal pressure PN bar Output continuous operation of HLP		315	315	315	315	250
hydraulic oil		220	220	220	220	175
Special hydraulic oil3) Pax bar Intermittent operation		350	350	350	350	300
HLP guage pressure oil Special hydraulic oil		245	245	245	245	210

Series		IGP(H)2				
Specifications		25	32	40	50	63
Weight		14.5	15	16	17	18.5
Speed range1)	nmin. r/min	200	200	200	200	200
	nmax. r/min	3000	3000	3000	3000	3000
Displacement	V ml/r	25.3	32.7	40.1	50.7	63.7
Flow2)	qv l/min	37.5	48.5	60.9	75.1	94.4
Moment of inertia (around the drive shaft)		0.00045	0.00055	0.00066	0.00081	0.00237
Working pressure, absolute value enter P bar		0.8 to 2 (short, 0.6bar at startup)				
Nominal pressure PN bar Output continuous operation of oil		315	315	315	315	315
Special hydraulic oil		220	220	220	220	220
Pax bar Intermittent operation		350	315	350	350	350
HLP guage pressure oil Special hydraulic		245	220	245	245	210



## Specifications

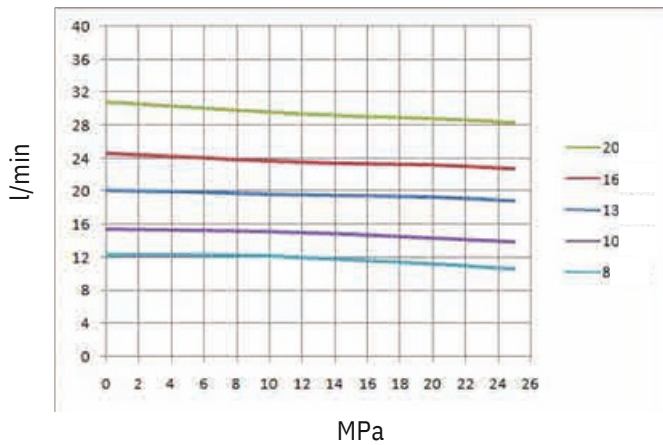
Series			IGP(H)3					
Specifications			80	100	125	145	160	200
Weight			43.5	45.5	48	50	52	60.5
Speed range <sup>1)</sup>	n <sub>min.</sub>	r/min	200	200	200	200	200	200
	n <sub>max.</sub>	r/min	3000	3000	3000	3000	3000	2500
Displacement	V	ml/r	81.4	100.2	125.3	145.2	162.8	194
Flow <sup>2)</sup>	qv	l/min	120.6	148.5	185.7	215.2	241.3	280
Moment of inertia (around the drive shaft)J kgm <sup>2</sup>			0.0028	0.00329	0.00407	0.00442	0.00506	
Working pressure, absolute value enter P bar			0.8 to 2 (short, 0.6bar at startup)					
Nominal pressure PN bar								
Output continuous operation of HLP hydraulic oil			315	315	315	250	210/230 <sup>3)</sup>	
Special hydraulic oil <sup>3)</sup>			220	220	220	175	145/150 <sup>3)</sup>	
Intermittent operation P <sub>ax</sub> bar								
HLP guage pressure oil			350	350	350	280	260/280 <sup>3)</sup>	
Special hydraulic oil			245	245	245	195	180/195 <sup>3)</sup>	

### Notes:

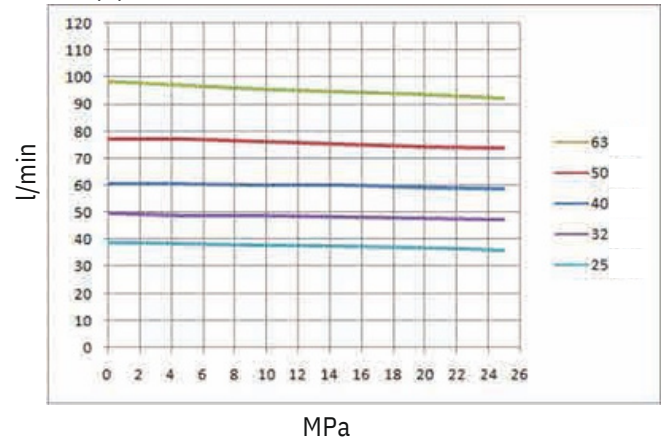
- hydraulic oil HFC: input continuous n circle= 2000 r/min
- Measurement conditions: n= 1500 r/min, p= 1bar, v=46mm<sup>2</sup>/s, t=50°C
- Note for these media, restrictions on special hydraulic oils can be applied.
- Maximum 10 seconds, 50% of the maximum space ratio
- The parameter are expressed as standard type/high connection type.

## Characteristic curves (measured at $n=1500\text{r/min}$ $v=46\text{mm}^2/\text{s}$ $t=50^\circ\text{C}$ )

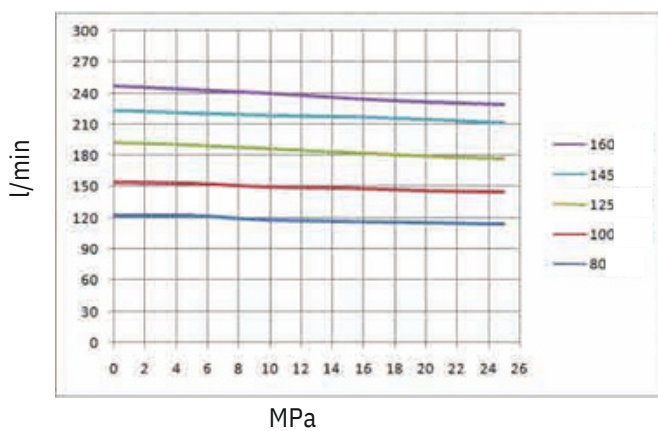
IGP1



IGP(H)2

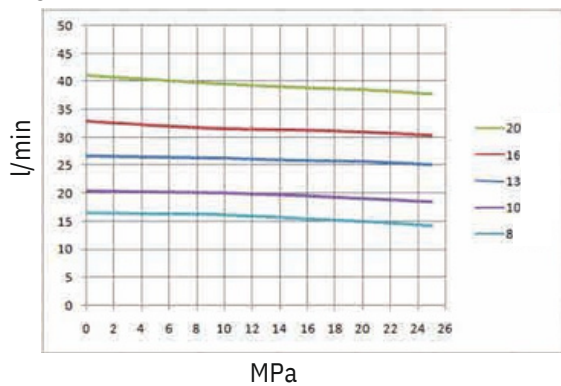


IGP(H)3

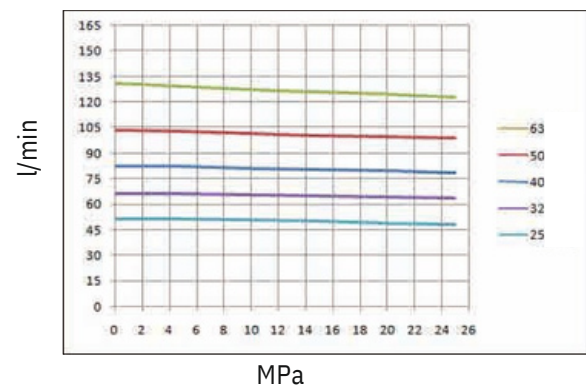


## Characteristic curves (measured at $n=2000\text{r/min}$ $v=46\text{mm}^2/\text{s}$ $t=50^\circ\text{C}$ )

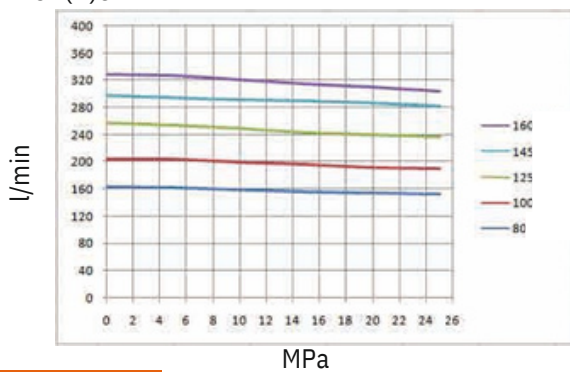
IGP1



IGP(H)2

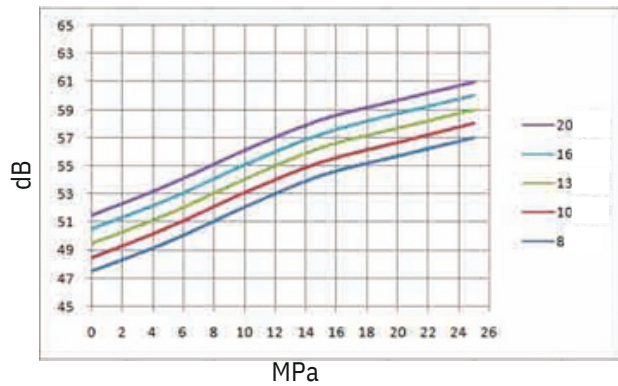


IGP(H)3

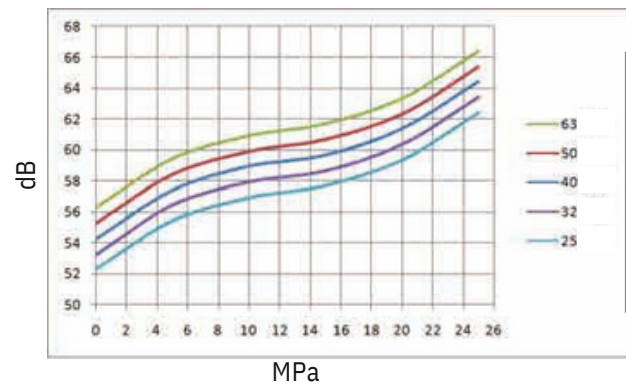


## Characteristic curves (measured at $n=1500\text{r/min}$ , $v=46\text{mm}^2/\text{s}$ , $t=50\text{ }^{\circ}\text{C}$ )

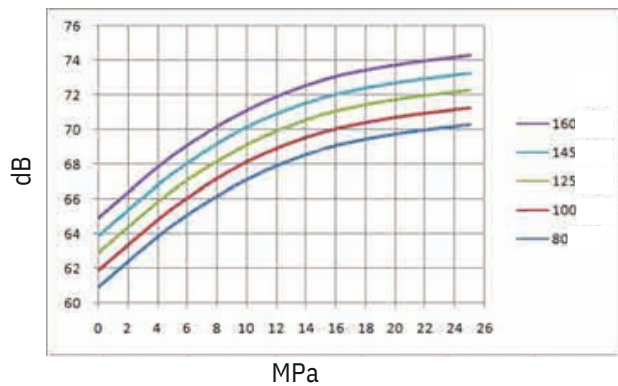
IGP1



IGP(H)2

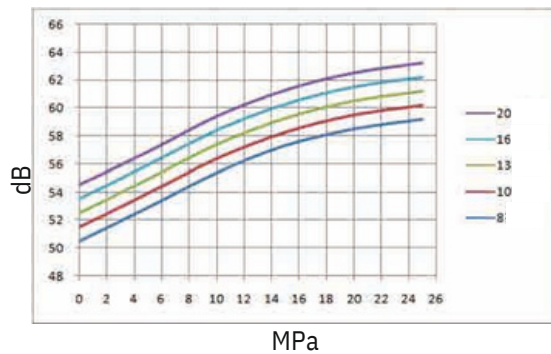


IGP(H)3

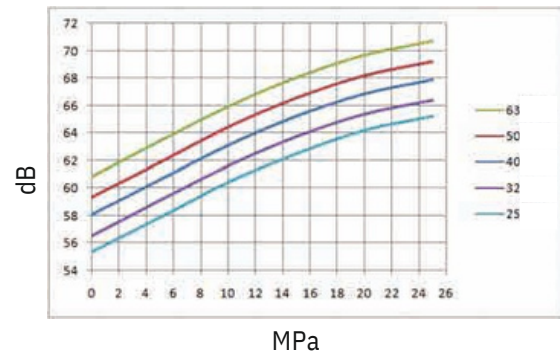


## Characteristic curves (measured at $n=2000\text{r/min}$ $v=46\text{mm}^2/\text{s}$ $t=50\text{ }^{\circ}\text{C}$ )

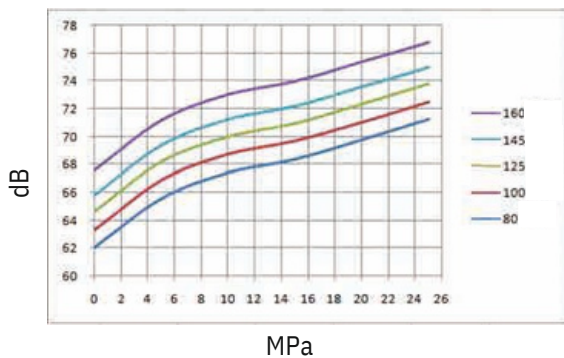
IGP1



IGP(H)2



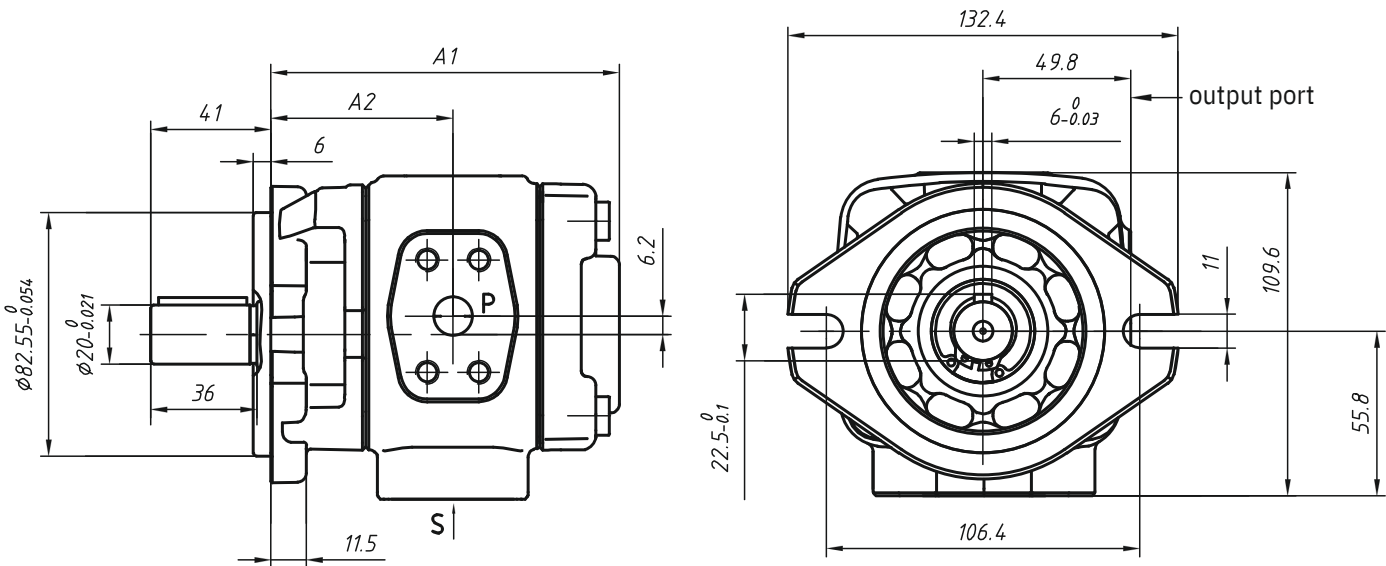
IGP(H)3



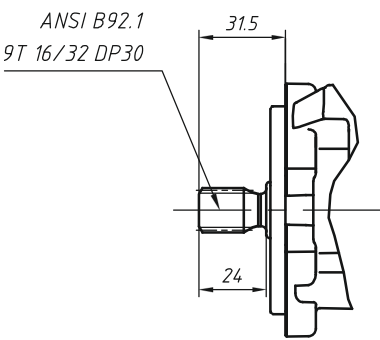
Unit Dimensions of IGP1

(Dimensions in mm)

P type parallel shaft



S type Splined shaft



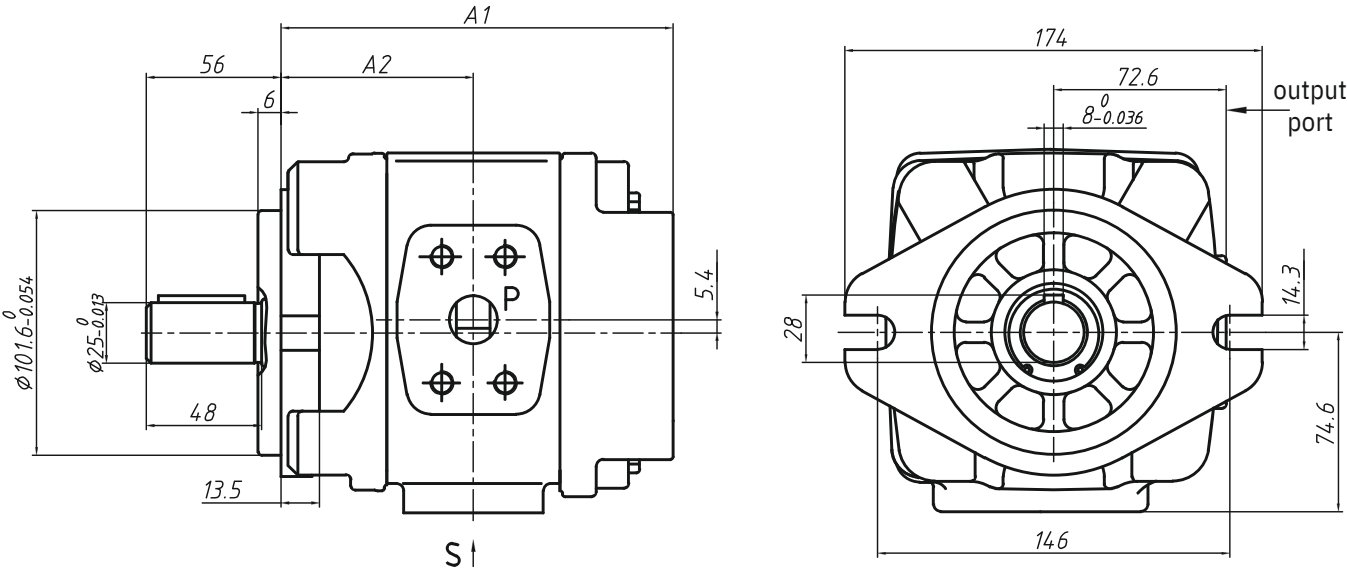
Pump Model	A1	A2	S	P
IGP1-008*** -S	102.5	54	Ø20	Ø13
IGP1-010*** -S	106.5	56		
IGP1-013*** -S	113	59.3		
IGP1-016*** -S	118.5	62		
IGP1-020*** -S	126.5	66	Ø26	Ø20
IGP1-025*** -S	134.5	70		



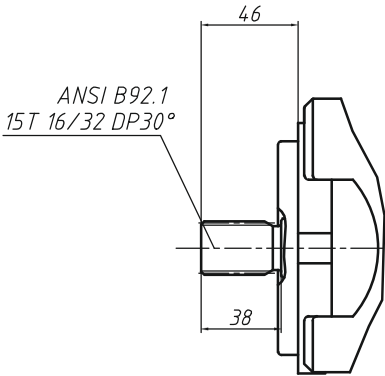
Unit Dimensions of IGP(H)2

(Dimensions in mm)

P type parallel shaft



S type Splined shaft

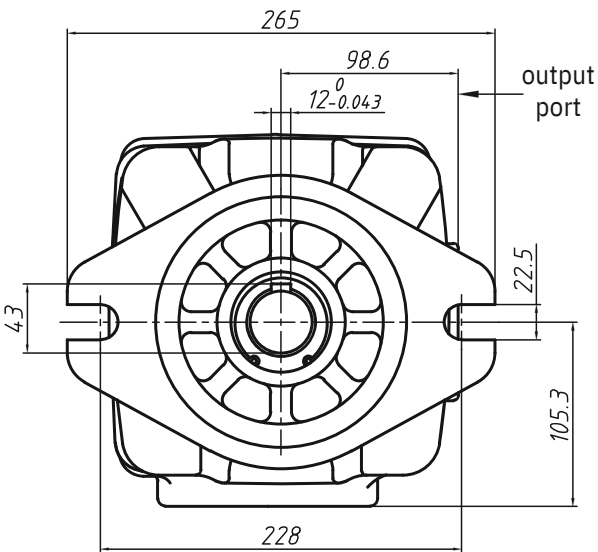
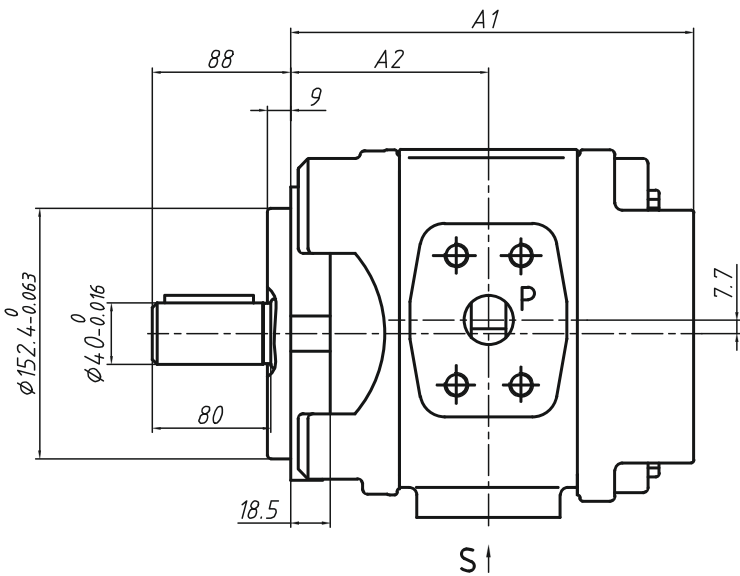


Pump Model	A1	A2	S	P
IGP2-025*** -S	139	73	Ø32	Ø18
IGP2-032*** -S	146	76.5		
IGP2-040*** -S	153	80	Ø32	Ø20
IGP(H)2-040*** -S			Ø38	
IGP2-050*** -S	163	85	Ø32	Ø25.4
IGP(H)2-050*** -S			Ø51	
IGP2-063*** -S	177	92	Ø32	Ø20
IGP(H)2-063*** -S			Ø51	Ø32

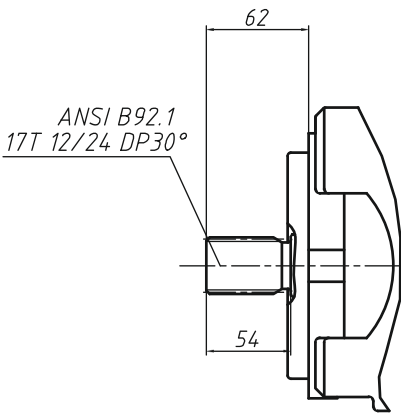
Unit Dimensions of IGP(H)3

P type parallel shaft

(Dimensions in mm)



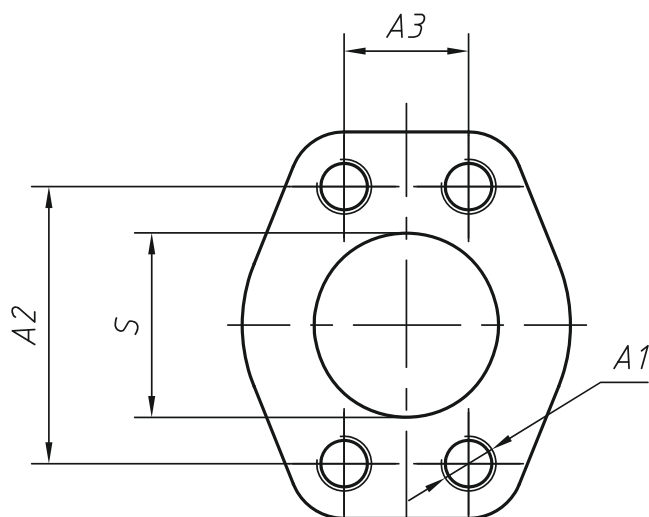
S type Splined shaft



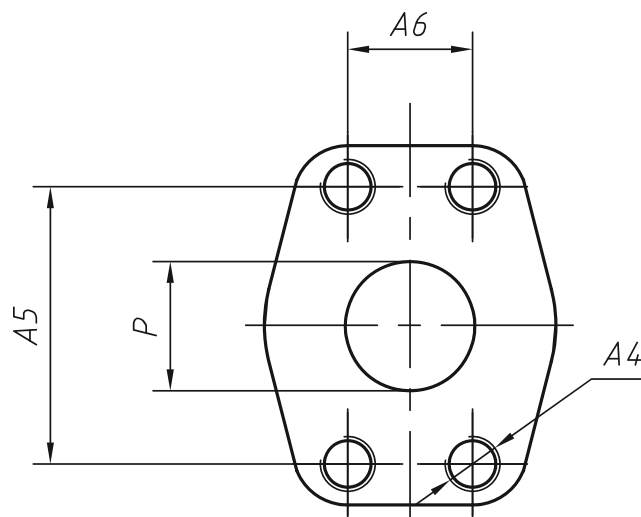
Pump Model	A1	A2	S	P
IGP3-080*** -S	199	109.5	Ø51	Ø32
IGP3-100*** -S	208	114	Ø51	
IGP(H)3-100*** -S			Ø64	
IGP3-125*** -S	220	120	Ø64	Ø38
IGP3-145*** -S	229.5	125	Ø64	
IGP(H)3-145*** -S			Ø76	
IGP3-160*** -S	238	129	Ø76	
IGP3-200*** -S	261	138		

## Oil Port Connection Size

Suction port S



Output port P



Model	Sizes	S	A1	A2	A3	P	A4	A5	A6
IGP1	8	Ø20	M10depth15	47.6	22.2	Ø13	M8depth13	38.1	17.5
	10			52.4	26.2				
	13								
	16								
	20	Ø26		58.7	30.2	Ø20	M10depth15	47.6	22.2
	25								
IGP2	25	Ø32	M10depth19	58.7	30.2	Ø18	M10depth17	47.6	22.2
IGP2	32								
IGP2	40	Ø32	M10depth19	58.7	30.2	Ø20	M10depth17	52.4	26.2
IGP(H)2	40	Ø38	M12depth21	69.9	35.7				
IGP2	50	Ø32	M10depth19	58.7	30.2				
IGP(H)2	50	Ø51	M12depth21	77.8	42.9	Ø25.4	M12depth21	57.2	27.8
IGP2	63	Ø32	M10depth19	58.7	30.2	Ø20	M10depth17	52.4	26.2
IGP(H)2	63	Ø51	M12depth21	77.8	42.9	Ø32	M12depth21	66.6	31.8
IGP3	80	Ø51	M12depth23	77.8	42.9	Ø32	M12depth20	69.9	35.7
IGP3	100	Ø51	M12depth23	77.8	42.9				
IGP(H)3	100	Ø64	M12depth23	88.9	50.8				
IGP3	125	Ø64	M12depth23	88.9	50.8	Ø38	M16depth25	79.4	36.5
IGP3	145	Ø64	M12depth23	88.9	50.8				
IGP(H)3	145	Ø76	M16depth30	106.4	61.9				
IGP3	160	Ø76	M16depth30	106.4	61.9				
IGP3	200	Ø76	M16depth30	106.4	61.9				

= larger suction & delivery ports

## Double Internal Gear Pump

- Combination pump
  - IGP(H)2 series+ IGP1 series 25, 32, 40, 50, 63 + 8, 10, 13, 16, 20
- IGP(H)2 series+ IGP(H)2 series 25, 32, 40, 50, 63 + 25, 32, 40, 50, 63
- IGP(H)3 series + IGP(H)2 series 80, 100, 125, 145, 160 + 25, 32, 40, 50, 63
- IGP(H)3 series + IGP(H)3 series 80, 100, 125, 145, 160 + 80, 100, 125, 145, 160



## Features

- Floating spline coupling structure is adopted, and the rotating shafts are connected in series, which plays a role of self-centering before and after, ensuring stable operation of the pump and low noise. The combination is flexible and convenient, the front and rear displacements of the same series can be combined arbitrarily. Sharing the same drive greatly reduces equipment system costs and reduces installation space. The assembly pump has a compact structure, low production cost, small size, light weight, and is convenient for installation and maintenance of the front and rear pumps. It can be widely used in industries such as hydraulic systems in plastic machines, shoe machines, die-casting machinery and electric forklifts. It is suitable for the energy-saving system of servo frequency conversion drive.

**Note: Double and Triple Internal Gear pump also available Please Contact us and refer the data sheet of DIGP & TIGP.**