

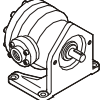



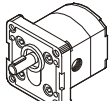

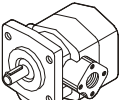

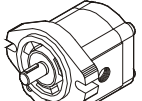

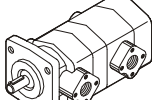

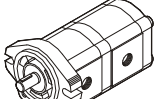

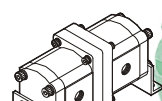

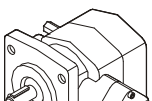
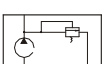
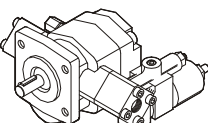
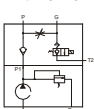


**B**

GEAR PUMPS		Graphic Symbol	Q max. cc/rev	P max. bar(PSI)	Speed r.p.m	Ref. Page
	GH1-02 ∟ GH2-40		4.2 ∟ 18.2	175 (2500)	300 ~ 2000	186
	GS2-04 ∟ GS2-22		4.5 ∟ 22.4	210 (3000)	500 ~ 5000	188
	HGP-05A-*03* ∟ HGP-05A-*1.1*		0.35 ∟ 1.13	210 (3000)	800 ~ 3500	190
	HGP-1A-F1* ∟ HGP-1A-F8*		1 ∟ 7.8	250 (3500)	600 ~ 4500	191
	HGP-2A-*2* ∟ HGP-1A-*12*		2 ∟ 12	250 (3500)	500 ~ 5000	194
	HGP-3A-*6* ∟ HGP-3A-*30*		6 ∟ 30	250 (3500)	400 ~ 3000	196
	HGP-22A-*22* ∟ HGP-22A-*66*	Tandem Gear Pump 	2 ∟ 12	250 (3500)	500 ~ 5000	198
	HGP-33A-*66* ∟ HGP-33A-*1717*	Tandem Gear Pump 	6 ∟ 30	250 (3500)	400 ~ 3000	199
	DMF-302A-6* ∟ DMF-302A-30*	Synchronous Flow Divider 	2 ∟ 30	210 (3000)	1000 ~ 3000	200
	PR1-020 ∟ PR2-080	Gear Pump + Relief Valve 	2 ∟ 12	210 (3000)	500 ~ 5000	202
	PR1+V2064 ∟ PR2+V2064	Gear Pump + Lift Valve 	2 ∟ 30	210 (3000)	500 ~ 5000	204



## GH1, GH2 Series Gear Pump (Chemical Pumps)

Pmax : 140 bar (2000 psi)

Qmax : 2.2 lpm ~ 40 lpm (1000 rpm)

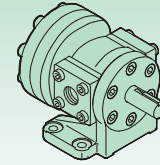
Mounting Type : Flange Mounting, Foot Mounting.

Fluid : ISO VG32 or VG46

Viscosity & Temp : 12~800 cSt & -15 °C to 80 °C

Filtration : 260 Microns Absolute or Finer

Alignment and installation of pumps : under 0.05 TIR

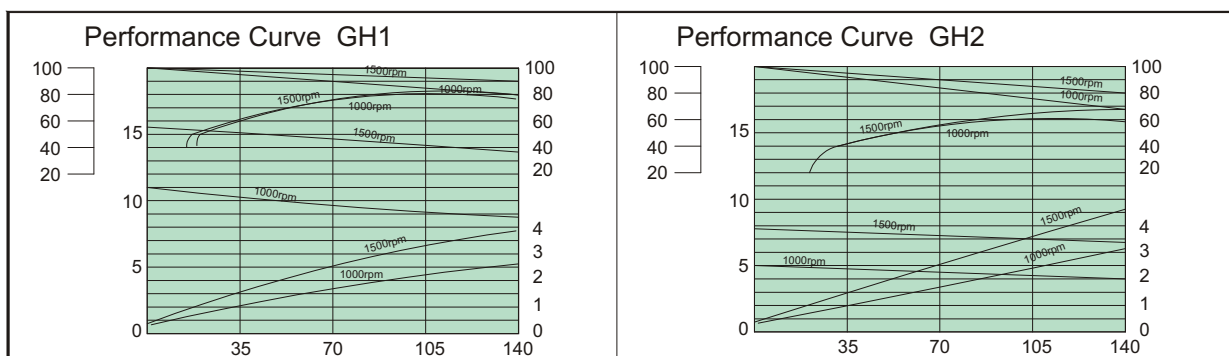
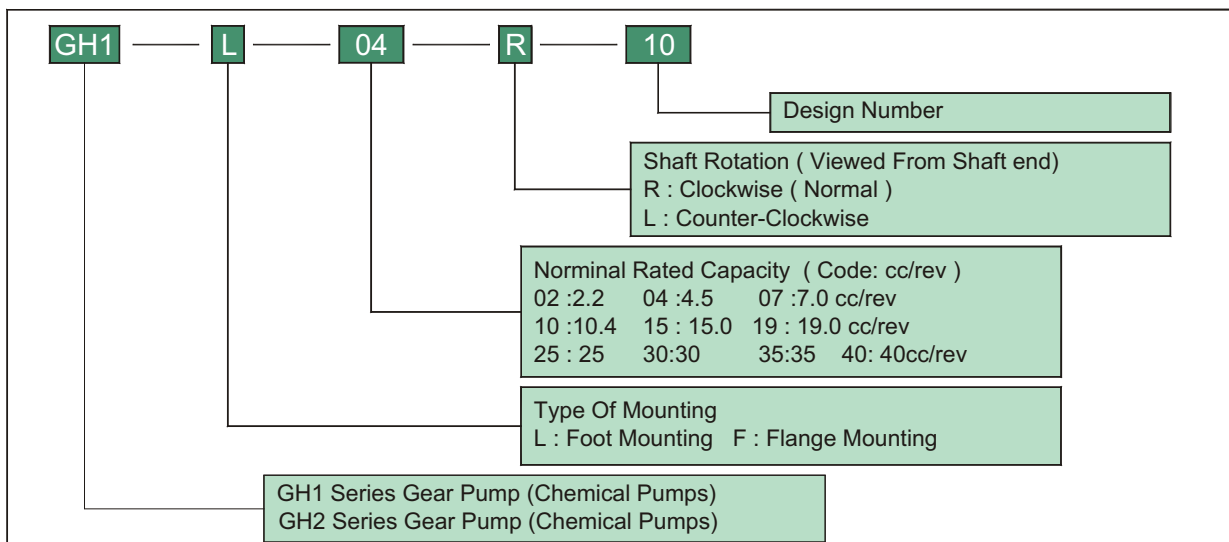


SYMBOL

### Ratings

Model	Capacity cc/rev	Rate Pressure bar	Max. Operation Pressure bar	Operating characteristics at 1000r.p.m. with 20cSt Fluid		Speed Range(r.p.m.)		Ports Size(PT)	
				Delivery (lpm )	Input (KW)	Min.	Max.	Outlet	Inlet
GH1-02	2.2	140	175	4.2	1.23	300	2000	1/2"	3/4"
GH1-04	4.5					300	2000		
GH1-07	7.0					300	2000		
GH1-10	10.4					300	2000		
GH1-15	15.0					300	2000		
GH1-19	19.0	140	175	7.2	1.8	300	2000	1/2"	3/4"
GH2-25	25					300	2000		
GH2-30	30					300	2000		
GH2-35	35					300	2000		
GH2-40	40					300	2000		

### ORDERING CODE

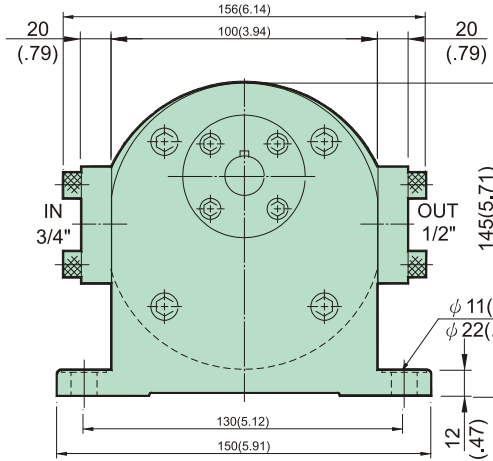
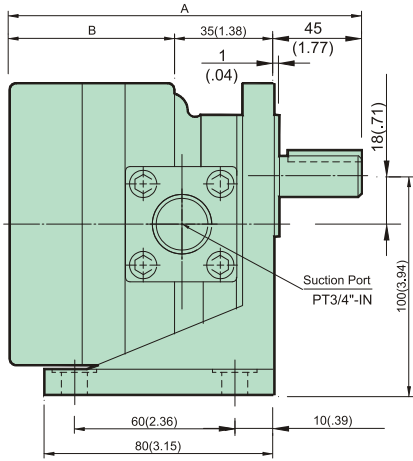


## DIMENSIONS

## MILLIMETERS(INCHES)

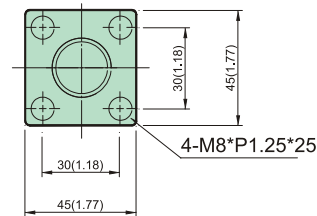
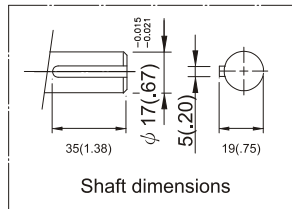
**B**

### GH1 Foot Mounting

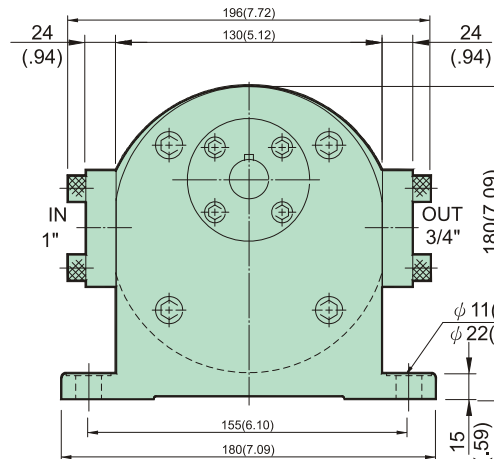
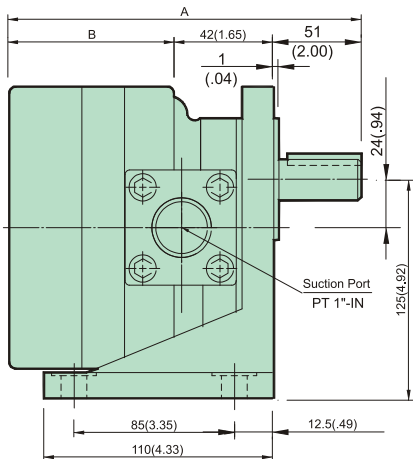


$\phi$  11(.43) HOLE  
 $\phi$  22(.87) SPOTFACER  
 1 DEEP

	mm(inch)	
	A	B
GH1-02	147 (5.79)	71 (2.80)
GH1-04	152 (5.98)	76 (2.99)
GH1-07	158 (6.22)	82 (3.23)
GH1-10	165 (6.50)	89 (3.50)
GH1-15	170 (6.69)	94 (3.70)
GH1-19	177 (6.97)	101 (3.98)

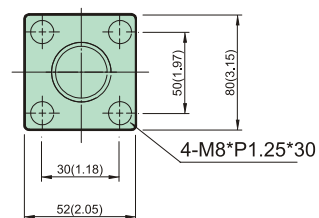
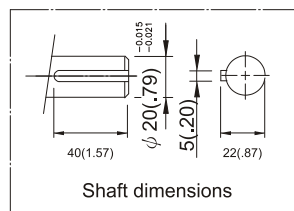


### GH2 Foot Mounting



$\phi$  11(.43) HOLE  
 $\phi$  22(.87) SPOTFACER  
 1 DEEP

	mm(inch)	
	A	B
GH2-25	220 (8.66)	127 (5.00)
GH2-30	227 (8.94)	134 (5.28)
GH2-35	234 (9.21)	141 (5.55)
GH2-40	234 (9.21)	141 (5.55)



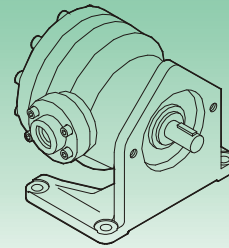


## DIMENSIONS

MILLIMETERS(INCHES)

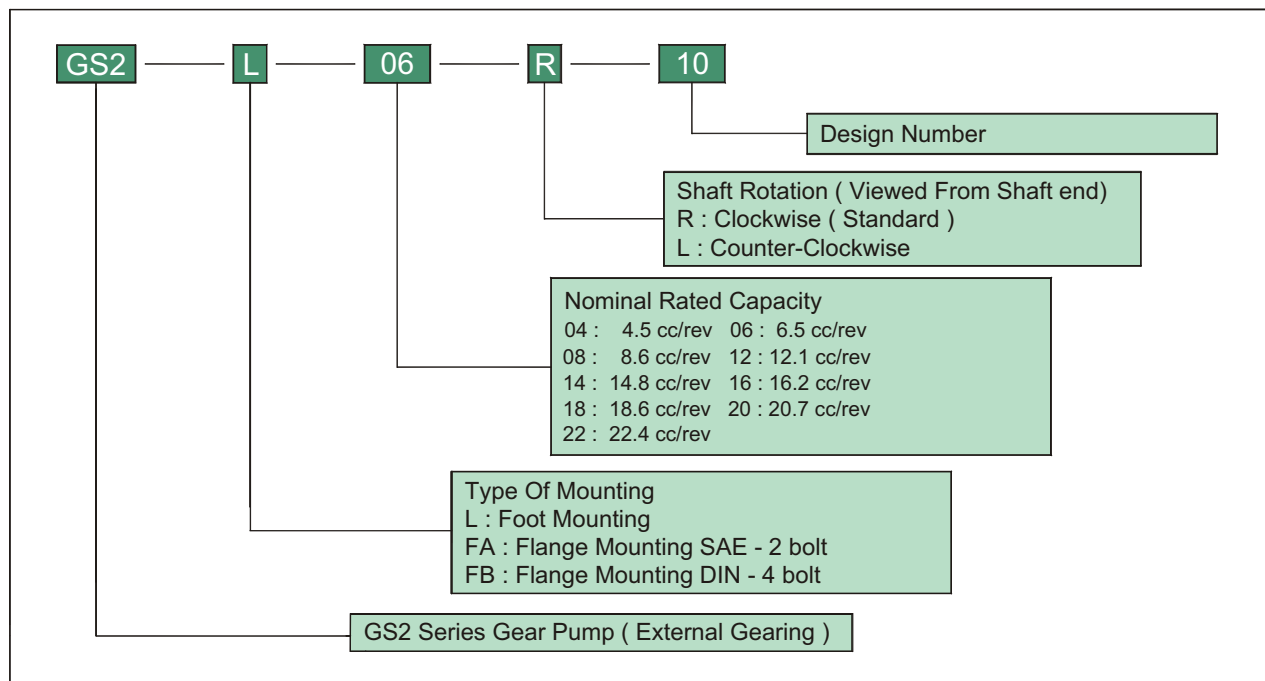
### GS2 Series Gear Pump ( External Gearing )

Pmax : 280 bar (4000 psi)  
 Qmax : 4.5 lpm ~ 25.4 lpm  
 Mounting Type : SAE 2-bolt DIN 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15° C to 80° C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



# B

## ORDERING CODE



## Ratings

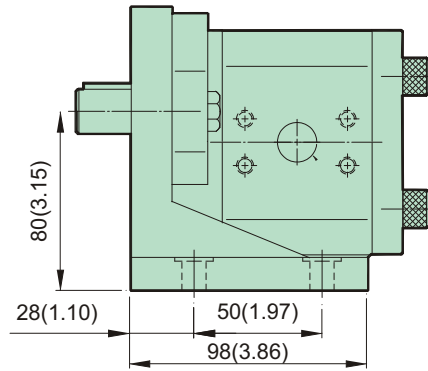
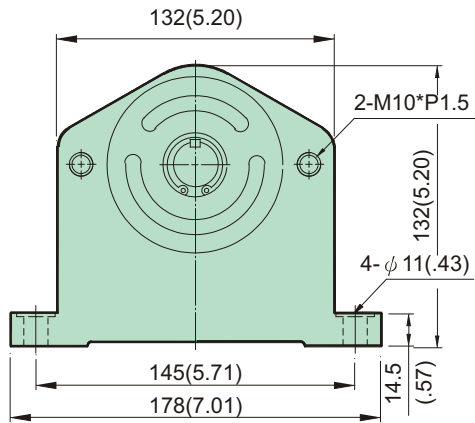
Model	Capacity (cc/rev)	Rate Pressure bar	Max. Operating Pressure bar	Speed Range (r.p.m.)		Weight(kg)
				Min.	Max.	
GS2*-04*-10	4.5	210	250	900	5000	8.35
GS2*-06*-10	6.5	210	250	900	4000	8.35
GS2*-08*-10	8.6	210	250	750	3200	8.35
GS2*-12*-10	12.1	210	250	500	3200	9.2
GS2*-14*-10	14.8	210	250	500	2700	9.2
GS2*-16*-10	16.2	210	250	500	2700	9.2
GS2*-18*-10	18.6	175	210	500	2000	9.85
GS2*-20*-10	20.7	175	210	500	2000	9.85
GS2*-22*-10	22.4	175	210	500	2000	9.85

## DIMENSIONS

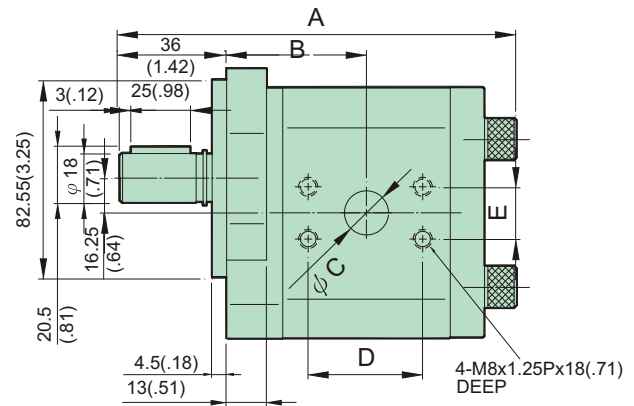
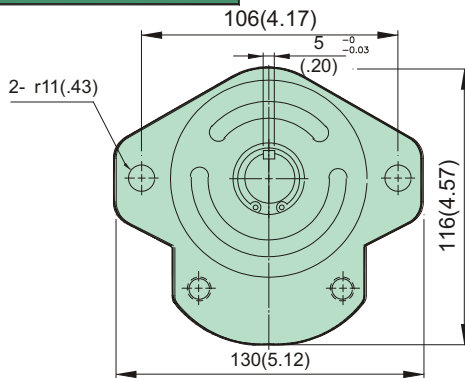
MILLIMETERS(INCHES)

**B**

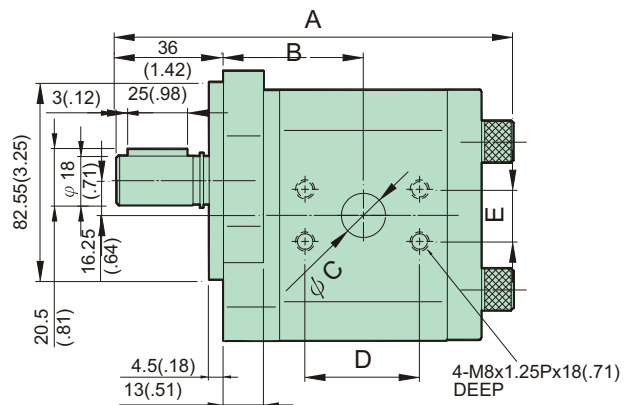
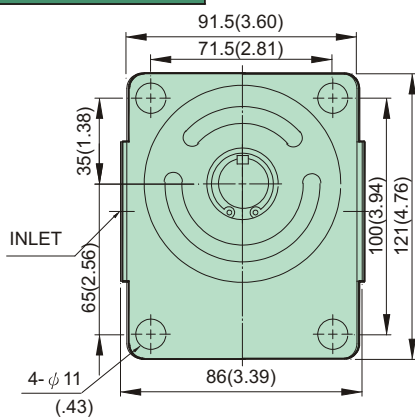
### GS-2 Foot Mounting



### GS2-A Flange Mounting



### GS2-B Flange Mounting



MODEL	TYPE	A	B	C	D	E
GS2-FA/FB	04-08	133.5(5.25)	48(1.88)	13.8(0.54)	38(1.49)	17.4(0.68)
	12-16	144.5(5.68)	53.5(2.10)	18.8(0.74)	47.6(1.87)	22.2(0.87)
	18-22	153.5(6.04)	58(2.28)	18.8(0.74)	47.6(1.87)	22.2(0.87)



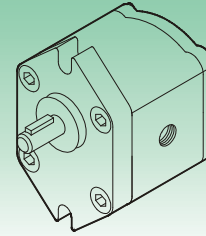
DIMENSIONS

MILLIMETERS(INCHES)

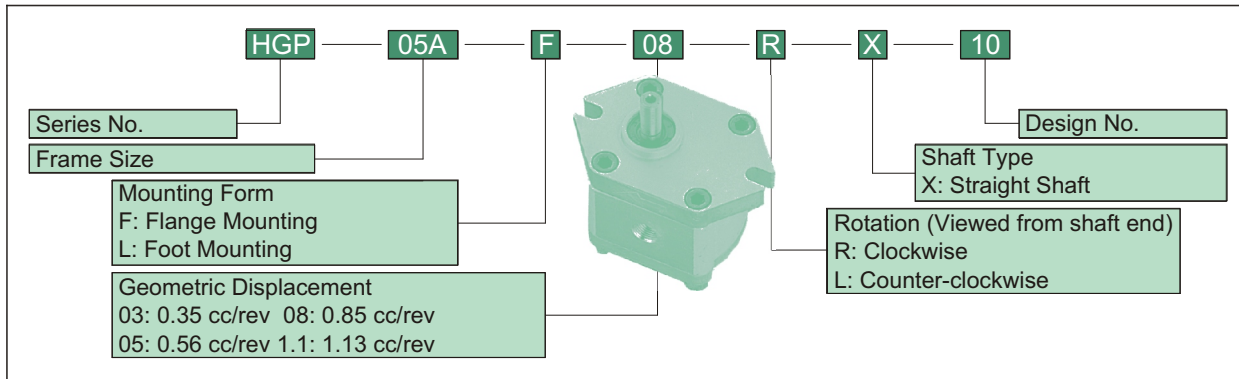
B

HGP-05A Series Single Gear Pumps

P<sub>max</sub> : 210 bar (3000 psi)  
 Q<sub>max</sub> : 0.35 cc/rev ~ 1.13 cc/rev  
 Mounting Type : 2-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15° C to 80° C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



Ordering Code

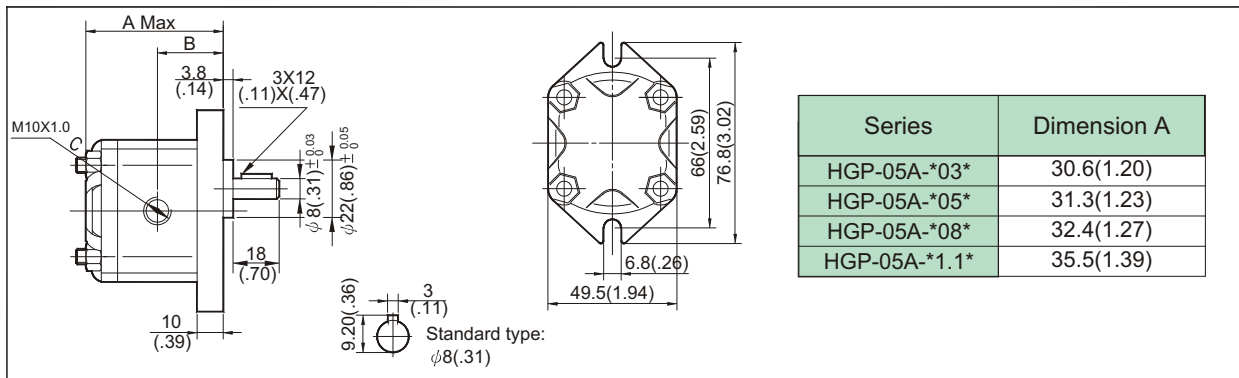


Ratings

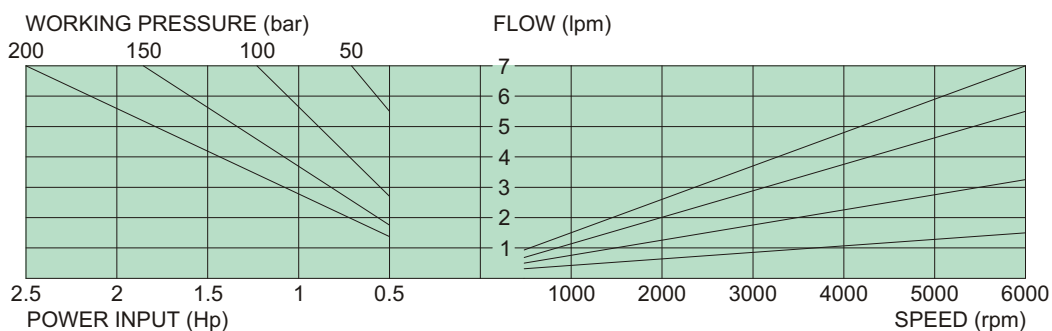
Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm	Port Size		Weight Kg(lb)
		Work	Max.		In	Out	
HGP-05A-*03*	0.35	175 (2500)	210 (3000)	Rate: 1800 Max.: 3500 Min.: 800	1/8"	1/8"	0.43(.95)
HGP-05A-*05*	0.56				1/4"	1/4"	
HGP-05A-*08*	0.85						
HGP-05A-*1.1*	1.13						

DIMENSIONS

MM(INCHES)



Performance Curve

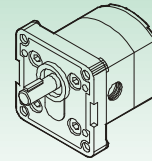
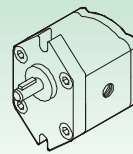




**B**

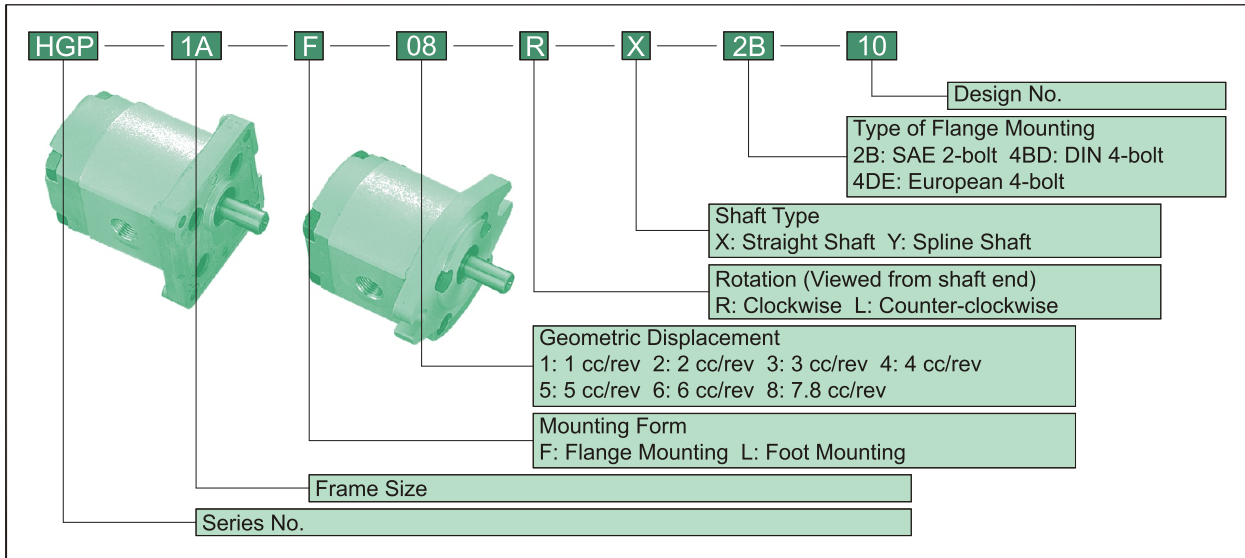
### HGP-1A Series Single Gear Pumps

Pmax : 250 bar (3500 psi)  
 Qmax : 1 cc/rev ~ 7.8 cc/rev  
 Mounting Type : SAE 2-bolt European & DIN 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15 °C to 80 °C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



SYMBOL

### Ordering Code



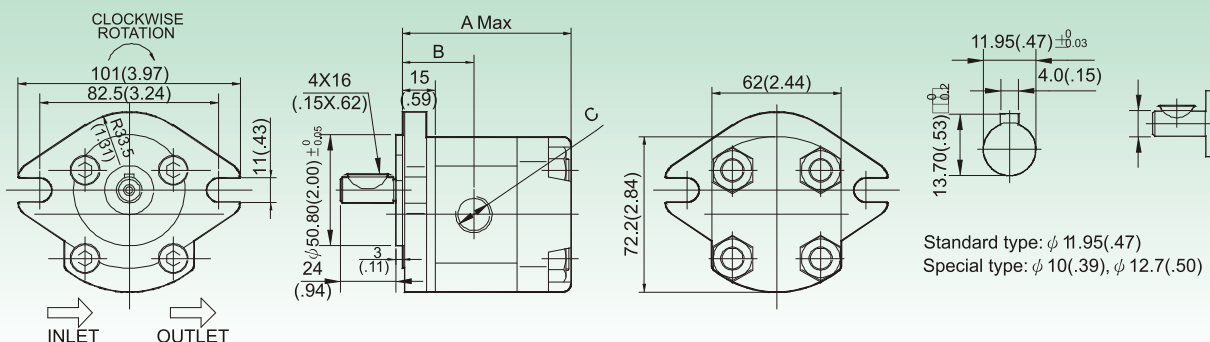
### Ratings

Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm			Weight Kg(lb)
		Work	Max.	Rate	Max.	Min.	
HGP-1A-F1*	1	210 (3000)	250 (3500)	1800	4500	1000	1.00(2.22)
HGP-1A-F2*	2				4500	600	1.05(2.33)
HGP-1A-F3*	3				4500	600	1.15(2.55)
HGP-1A-F4*	4				4000	600	1.18(2.62)
HGP-1A-F5*	5				3200	600	1.20(2.66)
HGP-1A-F6*	6				3200	600	1.30(2.88)
HGP-1A-F8*	7.8				3200	600	1.30(2.88)

### DIMENSIONS

### MILLIMETER(INCHES)

#### HGP-1A-F\*-\*\*-2B-10 (SAE 2-bolt)



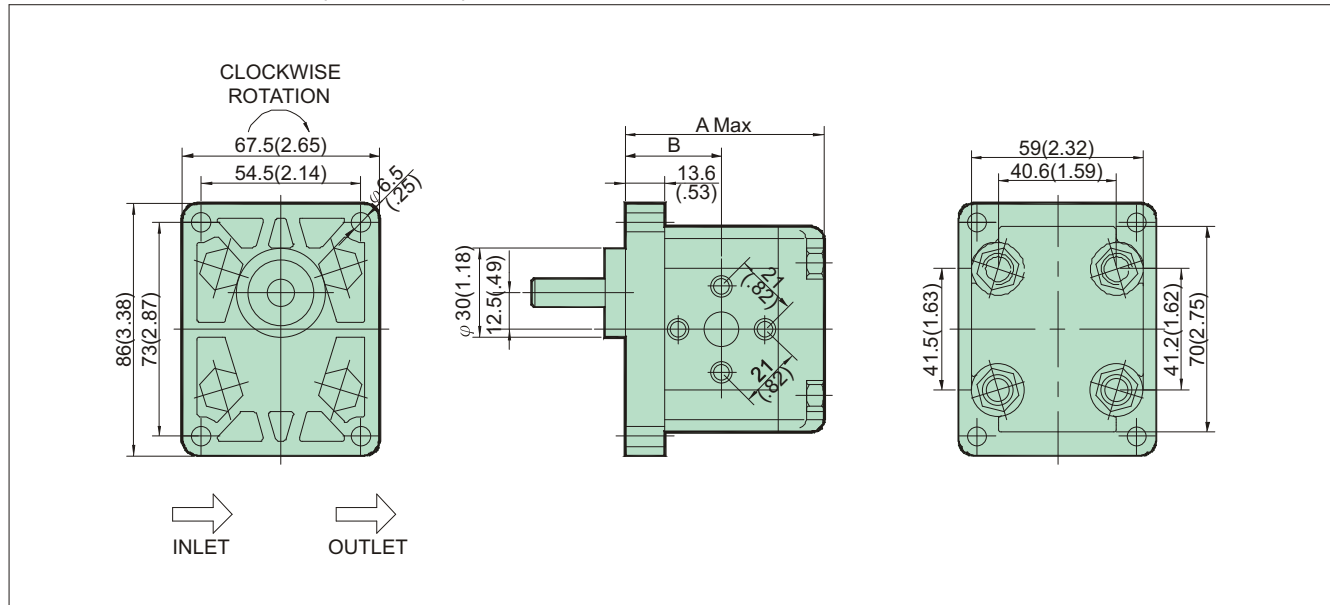


## DIMENSIONS

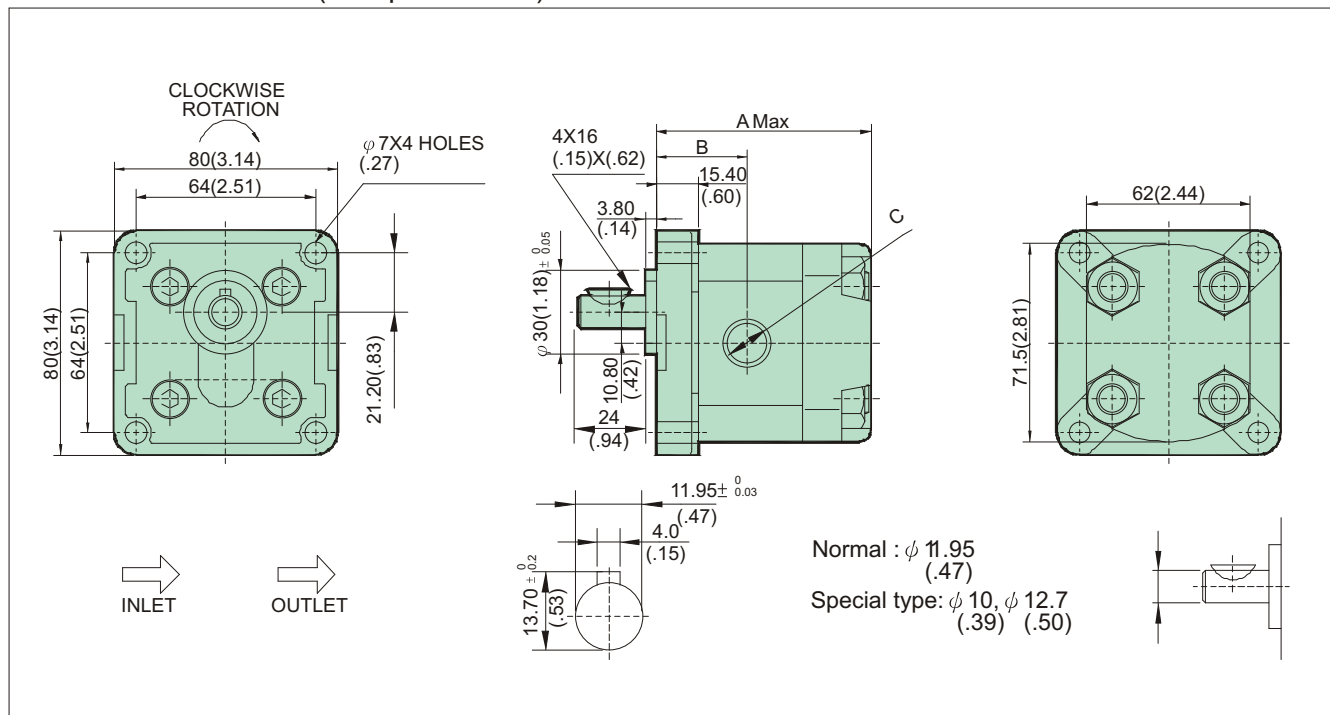
MILLIMETERS(INCHES)

**B**

### HGP-1A-F\*-\*-4BD-10 (DIN 4-bolt)



### HGP-1A-F\*-\*-4BE-10 (European 4-bolt)



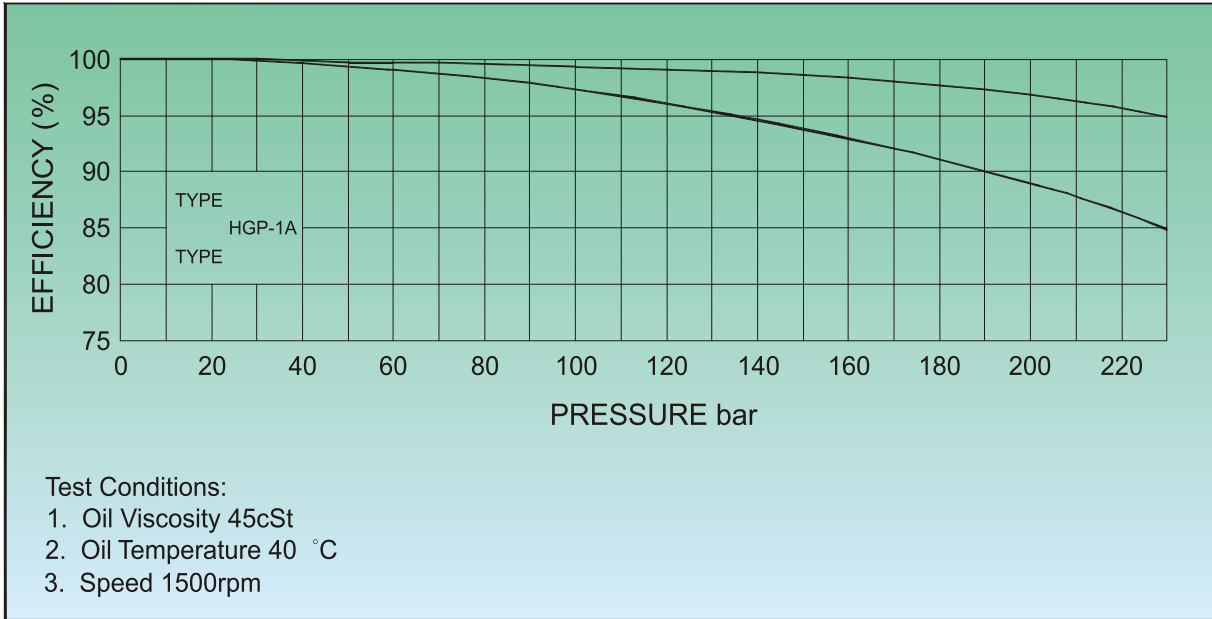
Series	Dimension A mm	Dimension B mm(inch)	C - Inlet	D - Outlet
HGP-1A-F1*	77(3.03)	38.5(1.51)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F2*	80.5(3.16)	40.25(1.58)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F3*	86(3.38)	43(1.69)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F4*	88(3.46)	44(1.73)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F5*	92(3.62)	46(1.81)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F6*	96(3.77)	48(1.88)	3/8" PT(Rc)	3/8" PT(Rc)
HGP-1A-F8*	102(4.01)	51(2.00)	1/2" PT(Rc)	3/8" PT(Rc)



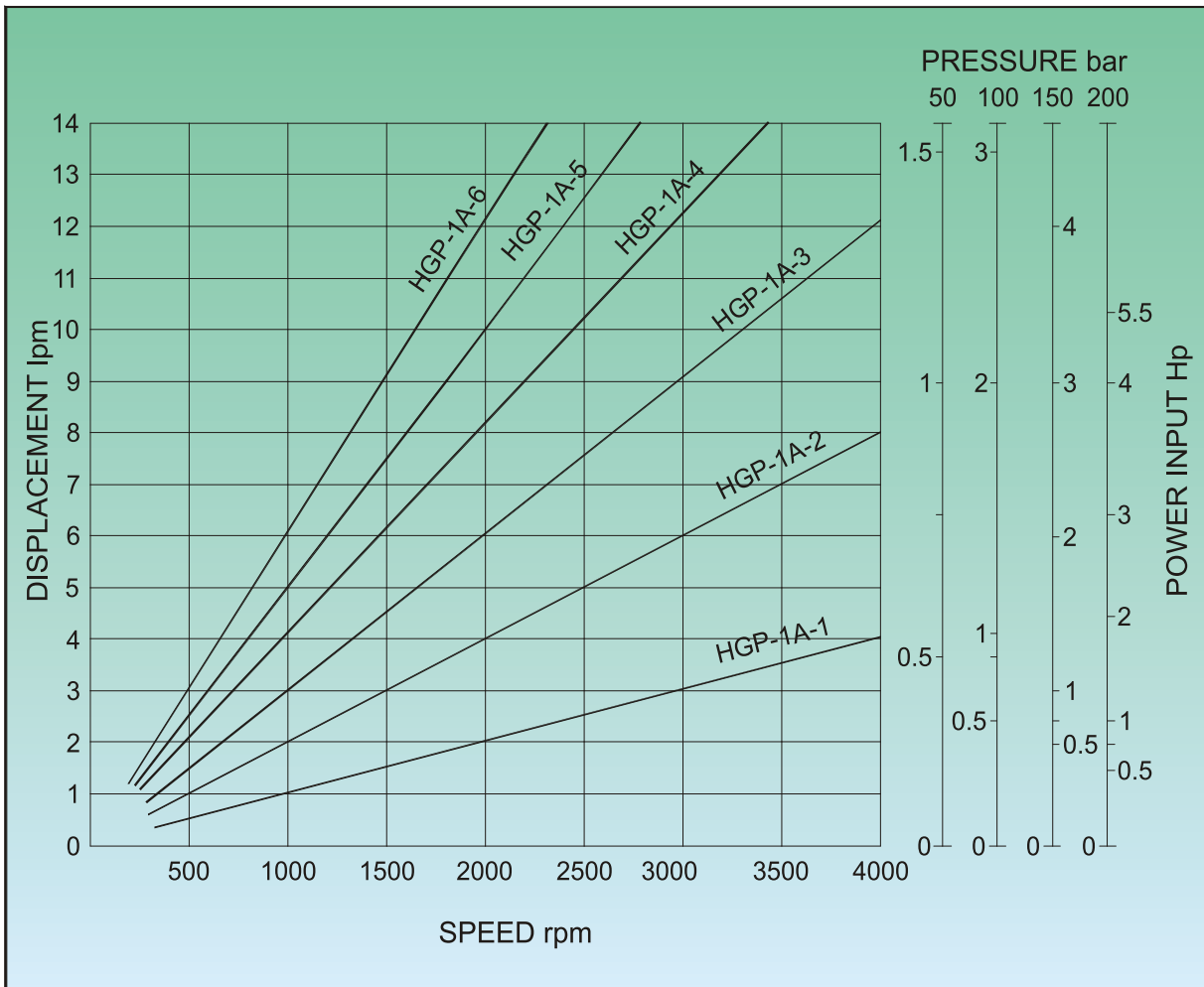
**B**

## Performance Curves

### Pressure / Volumetric Efficiency



### Displacement / Power Input / Speed



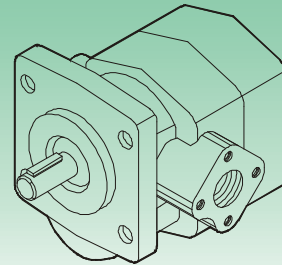


DIMENSIONS

MILLIMETERS(INCHES)

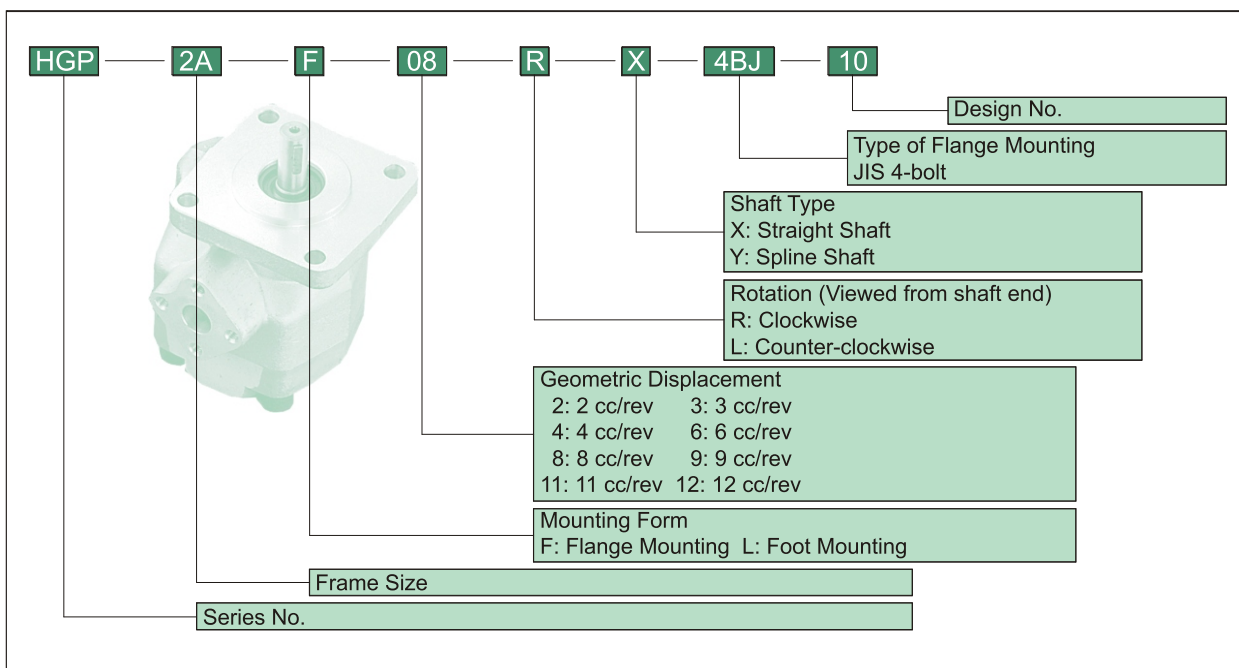
HGP-2A Series Single Gear Pumps

Pmax : 250 bar (3500 psi)  
 Qmax : 2 cc/rev ~ 12 cc/rev  
 Mounting Type : JIS 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80 °C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



B

Ordering Code

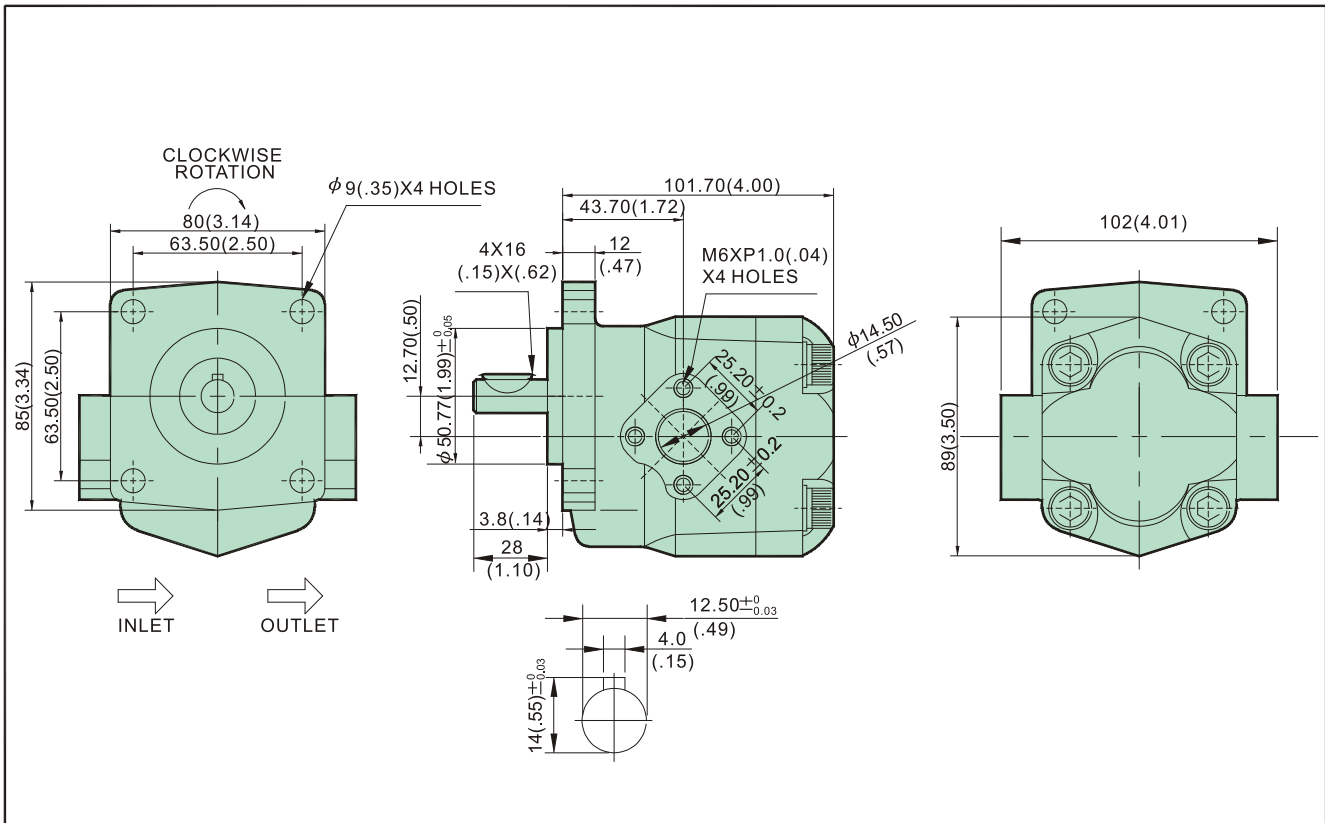


■ Ratings

Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm			Weight Kg(lb)
		Work	Max.	Rate	Max.	Min.	
HGP-2A-*2*	2	210 (3000)	250 (3500)	1800	5000	900	1.63(3.61)
HGP-2A-*3*	3				5000	850	1.65(3.66)
HGP-2A-*4*	4				4500	800	1.67(3.70)
HGP-2A-*6*	6				3500	700	1.69(3.75)
HGP-2A-*8*	7.5				3000	600	1.72(3.81)
HGP-2A-*9*	9	175 (2500)	210 (3000)	2000	2500	550	1.75(3.88)
HGP-2A-*11*	10.5				2000	500	1.77(3.92)
HGP-1A-*12*	12				2000	500	1.80(3.99)

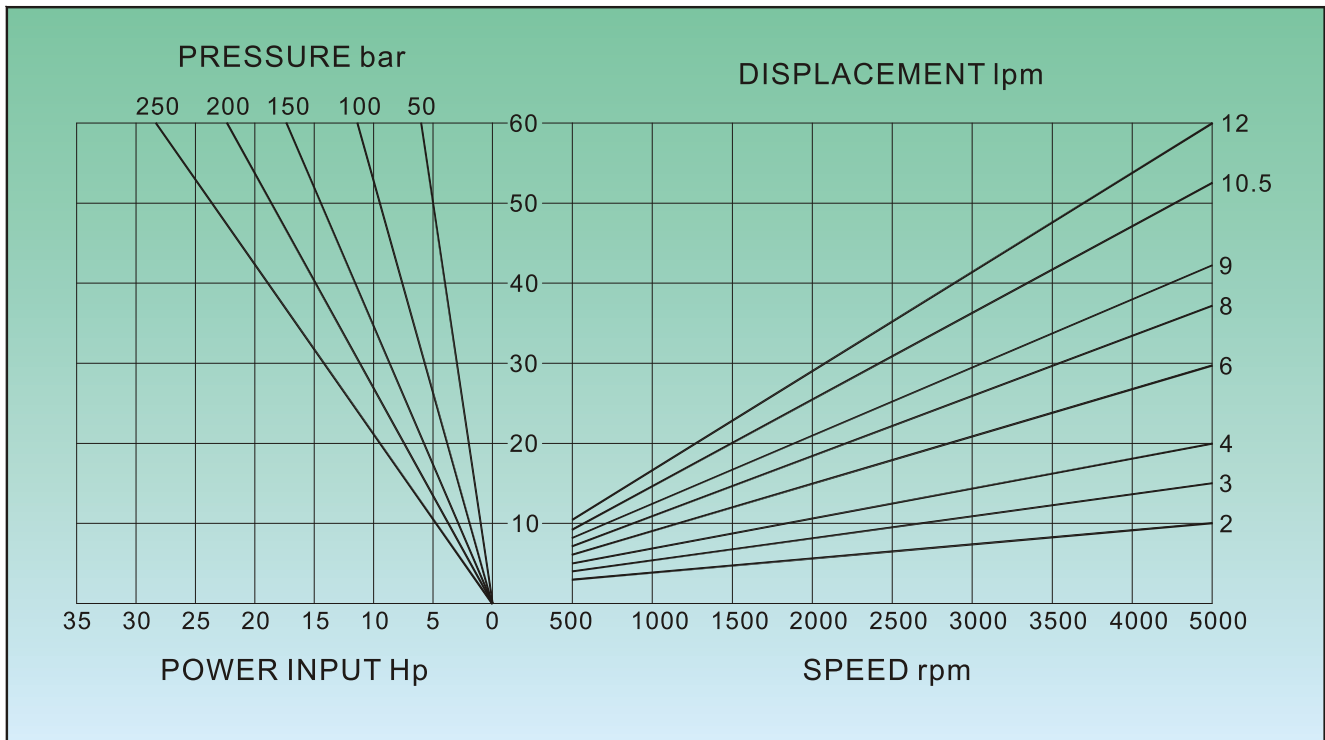
## HGP-2A Series

**B**



## Performance Curves

Pressure / Power Input, Displacement / Speed



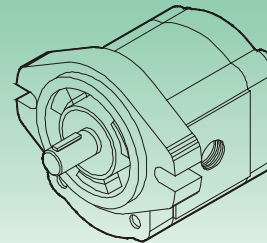


## DIMENSIONS

MILLIMETERS(INCHES)

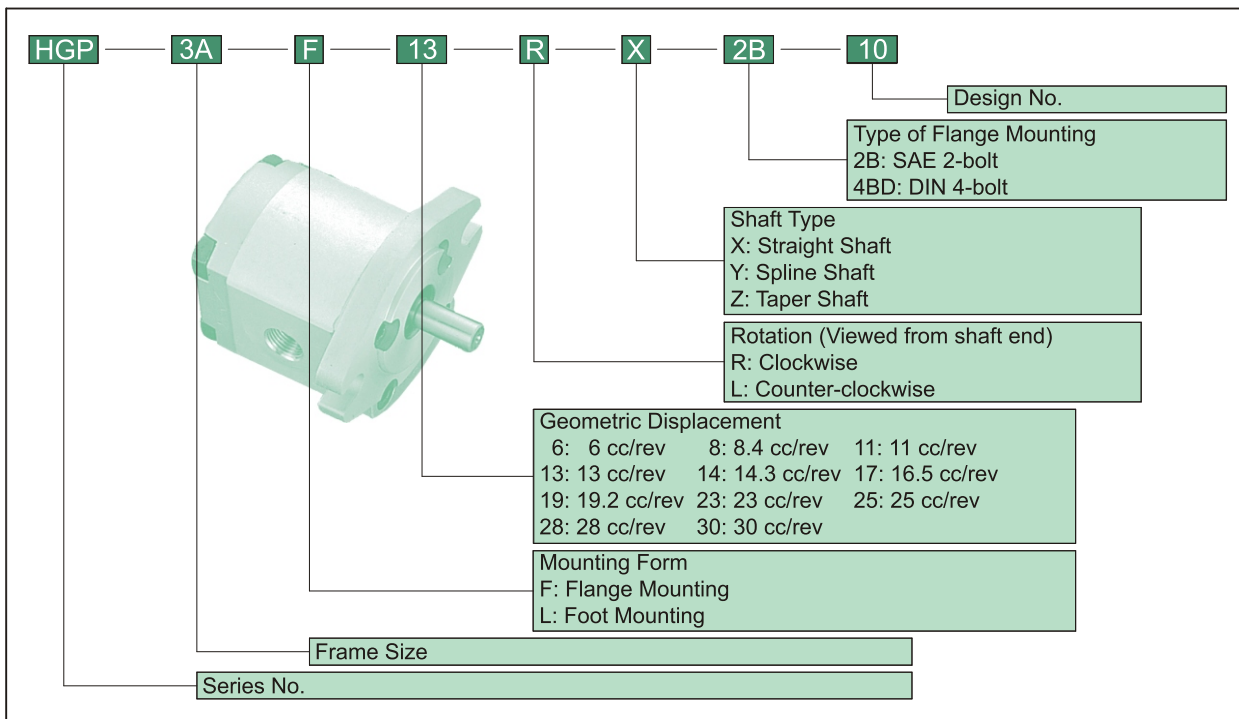
### HGP-3A Series Single Gear Pumps

Pmax : 250 bar (3500 psi)  
 Qmax : 6 cc/rev ~ 30 cc/rev  
 Mounting Type : SAE 2-BOLT DIN 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



# B

### Ordering Code



### ■ Ratings

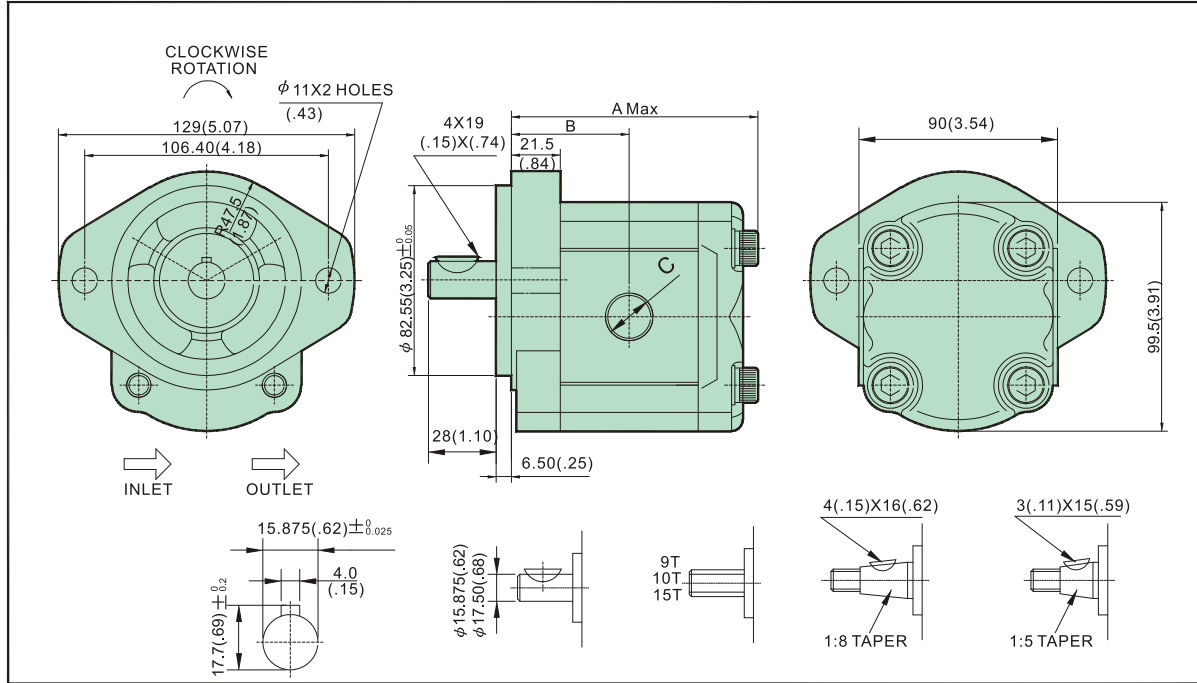
Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm			Port Sizes		Weight Kg(lb)				
		Work	Work	Rate	Max.	Min.	Out	In					
HGP-3A-*6*	6	210 (3000)	250 (3500)	1800	3000	700	1/2PT(Rc)	3/8PT(Rc)	2.25(4.99)				
HGP-3A-*8*	8.4								2.40(5.32)				
HGP-3A-*11*	11								2.55(5.66)				
HGP-3A-*13*	13						175 (2000)	210 (2500)	400	3000	3/4PT(Rc)	1/2PT(Rc)	2.70(5.99)
HGP-3A-*14*	14.3												2.85(6.32)
HGP-3A-*17*	16.5												3.05(6.77)
HGP-3A-*19*	19.2												3.20(7.10)
HGP-3A-*23*	23	1 PT(Rc)	3/4PT(Rc)	3.35(7.43)									
HGP-3A-*25*	25			3.50(7.77)									
HGP-3A-*28*	28			3.60(7.99)									
HGP-3A-*30*	30							3.60(7.99)					

## DIMENSIONS

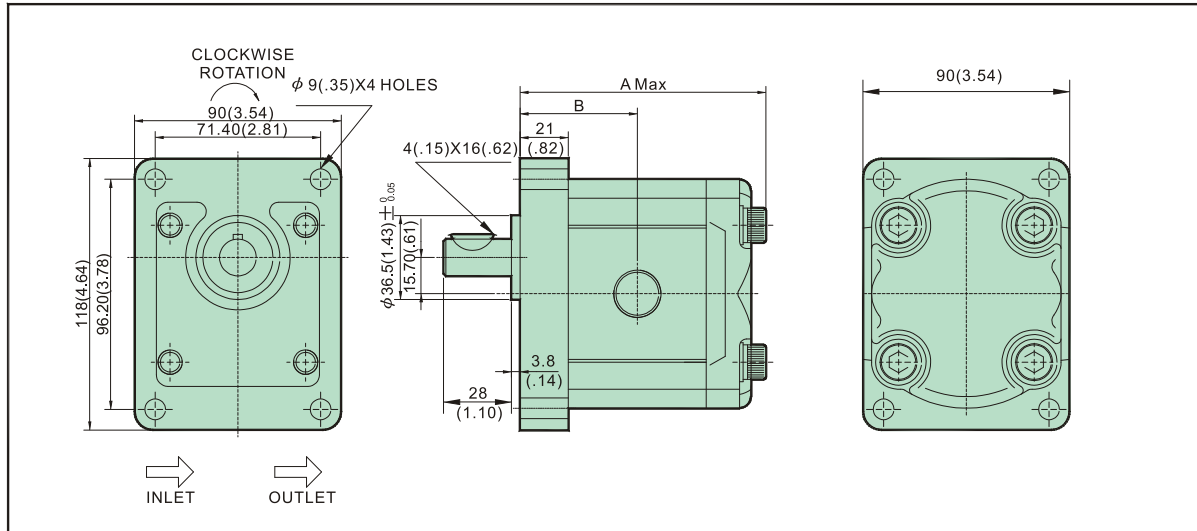
MILLIMETERS(INCHES)

**B**

HGP-\*3A-\*-4BD-10 (4 Holes)

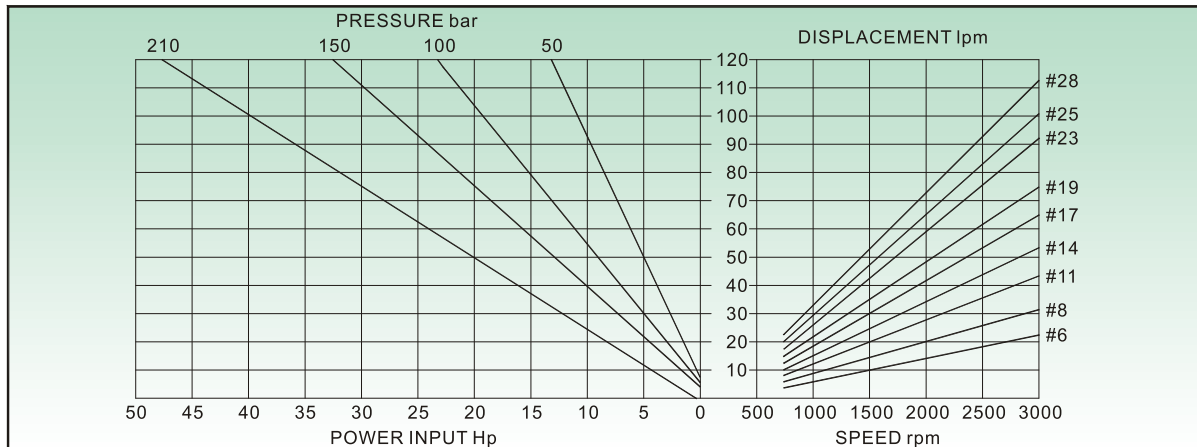


HGP-\*3A-\*-4BD-10 (4 Holes)



### Performance Curves

Pressure / Flow / Power Input, Flow / Speed





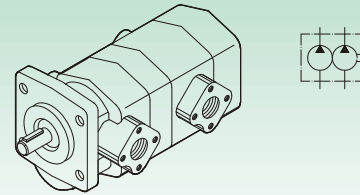
DIMENSIONS

MILLIMETERS(INCHES)

B

HGP-22A Series Tandem Gear Pumps

P<sub>max</sub> : 210 bar (3000 psi)  
 Q<sub>max</sub> : 4 cc/rev ~ 24 cc/rev  
 Mounting Type : JIS 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



Ordering Code

**HGP** — **22A** — **F** — **88** — **R** — **X** — **4BJ** — **10**

- Design No.**
- Type of Flange Mounting**  
JIS 4-bolt
- Shaft Type**  
X: Straight Shaft  
Y: Spline Shaft  
Z: Taper Shaft
- Rotation (Viewed from shaft end)**  
R: Clockwise  
L: Counter-clockwise
- Geometric Displacement**  
22: 2+2 cc/rev 33: 3+3 cc/rev 44: 4+4 cc/rev  
66: 6+6 cc/rev 88: 8+8 cc/rev 99: 9+9 cc/rev  
1111: 11+11 cc/rev 1212: 12+12 cc/rev
- Mounting Form**  
F: Flange Mounting L: Foot Mounting
- Frame Size**
- Series No.**

DIMENSIONS

MILLIMETER(INCHES)

Technical drawings showing dimensions in mm (inches):

- Top view: 102(4.01)
- Side view: 12.50(.49) ± 0.03, 4.0(.15), 14 ± 0.2(.55), 12(.47), 4X16(.15)X(.62), φ14.5(.57), φ14.5(.57), 12.70(.50), 28(1.10), 3.80(.14), 90(3.54), 59(2.32), A, B
- Front view: 85(3.34), 63(2.48), 80(3.14), 63(2.48), φ9.5(.375)
- Rotation: CW ROTATION
- INLET and OUTLET arrows

Series	A mm (in)	B mm (in)	Series	A mm (in)	B mm (in)
HGP-22A-*22*	174.5(6.9)	43(1.7)	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)



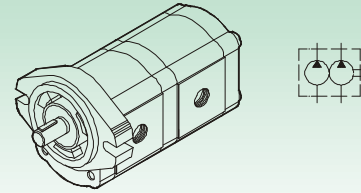
## DIMENSIONS

MILLIMETERS(INCHES)

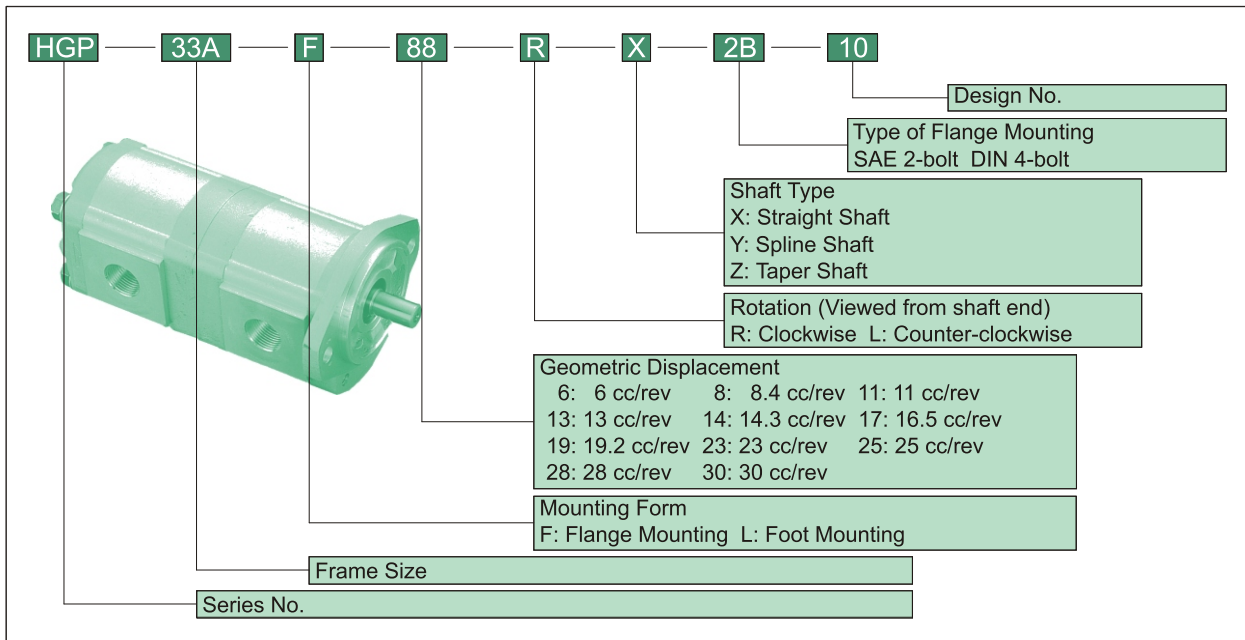
B

### HGP-33A Series Tandem Gear Pumps

Pmax : 210 bar (3000 psi)  
 Qmax : 12 cc/rev ~ 60 cc/rev  
 Mounting Type : SEA 2-bolt DIN 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR

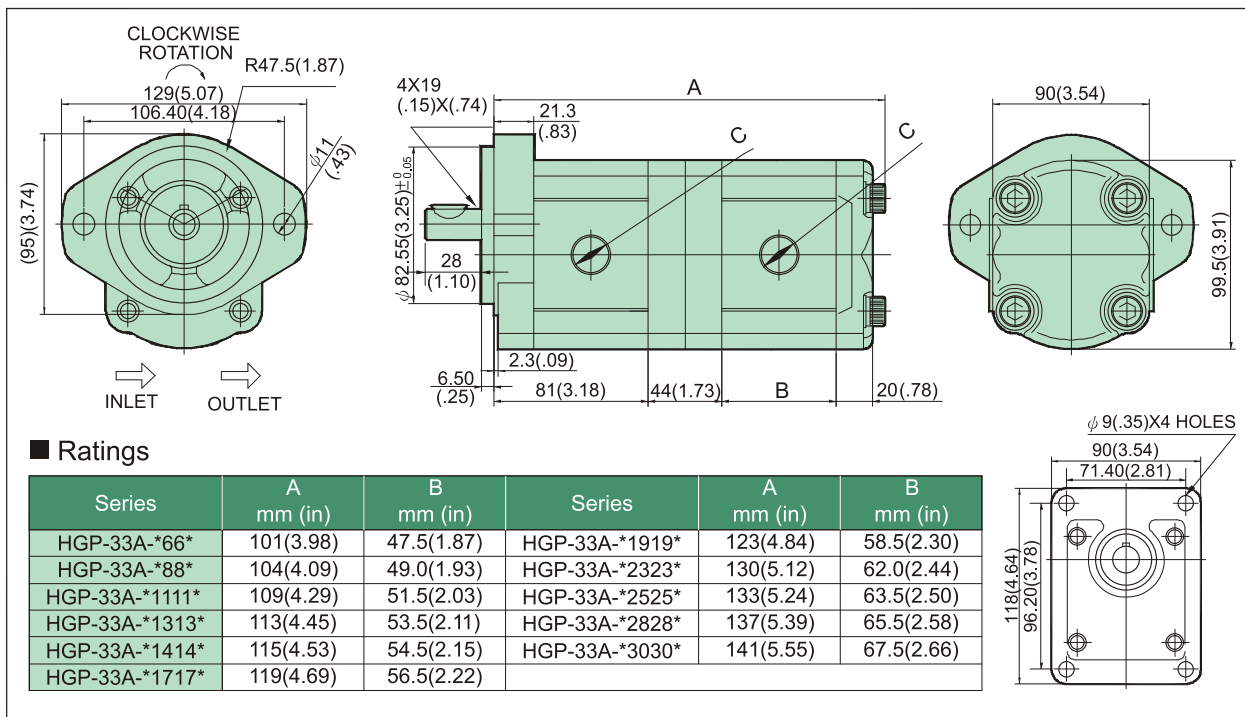


### Ordering Code



## DIMENSIONS

MILLIMETER(INCHES)



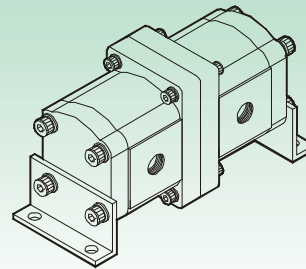


**DIMENSIONS**

MILLIMETERS(INCHES)

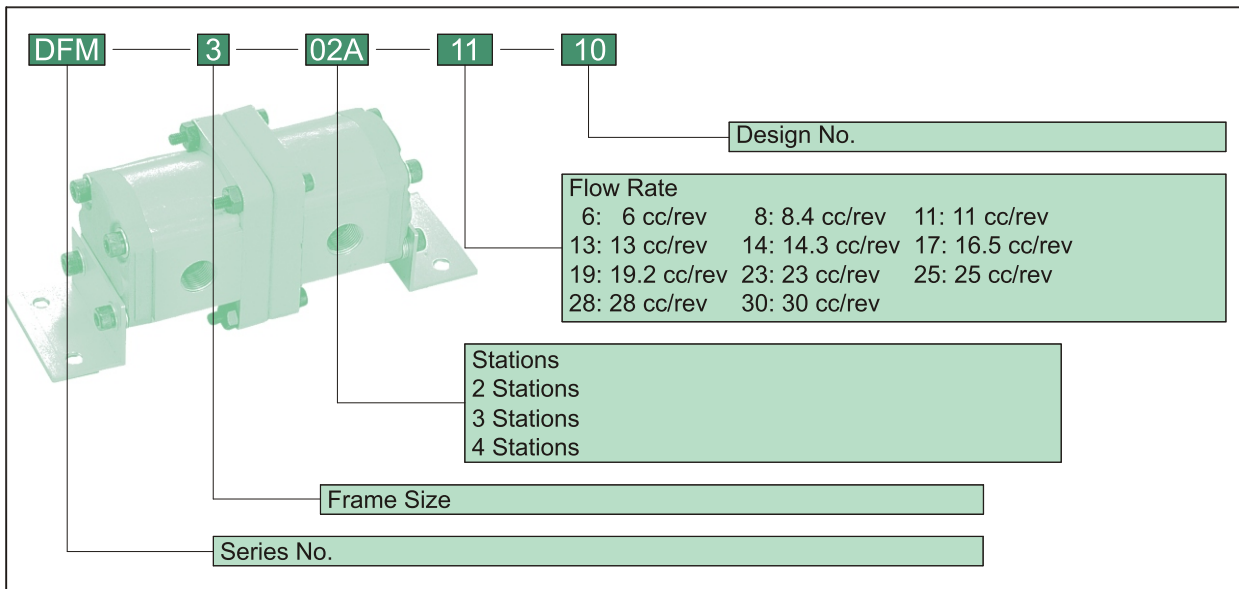
**DFM-302A Series Synchronous Flow Dividers**

Pmax : 210 bar (3000 psi)  
 Qmax : 6 cc/rev ~ 30 cc/rev  
 Start up pressure: Min 100 bar (1400psi)  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



**B**

**Ordering Code**



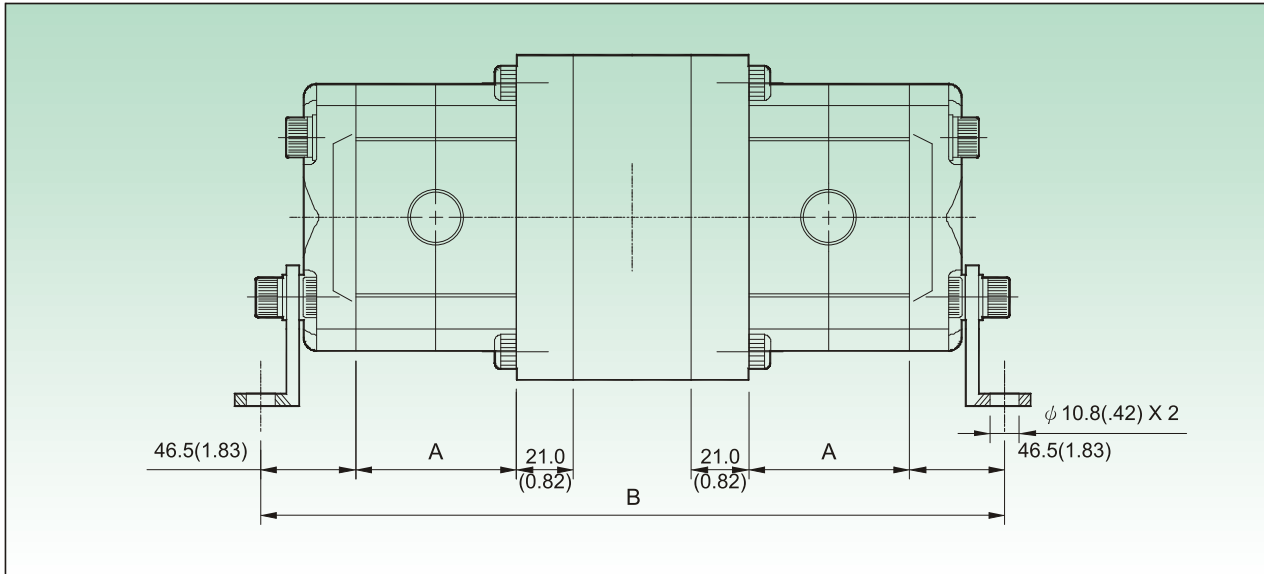
**■ Ratings**

Series	Geometric Displacement cc/rev	Referential Flow (lpm)		Max. Pressure bar(psi)	Speed rpm		Port Sizes		Weight Kg(lb)
		Min.	Max.		Loaded	Unloaded	Out	In	
DMF-302A-6*	6	4.2	18	210 (3000)	1800	3000	PT(Rc) 3/4"	PT(Rc) 1/2"	6.5(14.4)
DMF-302A-8*	8.4	5.6	24						
DMF-302A-11*	11	6.6	33						
DMF-302A-13*	13	7.8	39						
DMF-302A-14*	14.3	8.4	42		1000	2000	PT(Rc) 1"	PT(Rc) 3/4"	6.8(15.0)
DMF-302A-17*	16.5	10.2	51						
DMF-302A-19*	19.2	11.4	38						
DMF-302A-23*	23	13.8	46						
DMF-302A-25*	25	15.0	50						
DMF-302A-28*	28	16.8	54						
DMF-302A-30*	30	18	60						

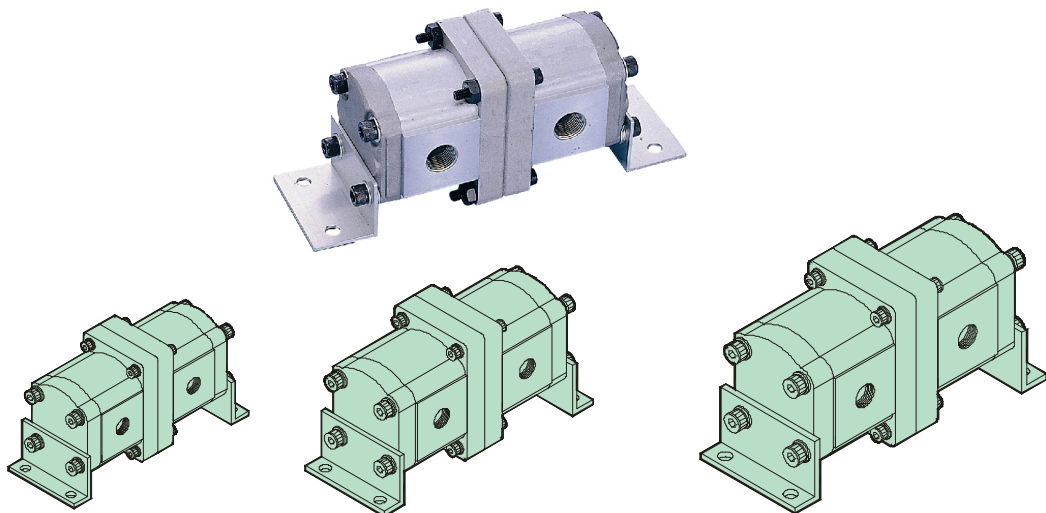
## DFM-302A Series Synchronous Flow Dividers



**B**



Series	Dimension A mm(inch)	Dimension B mm(inch)
DMF-302A-6*	52 (2.05)	239 (9.41)
DMF-302A-8*	55 (2.17)	245 (9.65)
DMF-302A-11*	60 (2.36)	255 (10.04)
DMF-302A-13*	64 (2.52)	263 (10.35)
DMF-302A-14*	66 (2.60)	267 (10.51)
DMF-302A-17*	70 (2.76)	275 (10.83)
DMF-302A-19*	74 (2.91)	283 (11.14)
DMF-302A-23*	81 (3.19)	297 (11.69)
DMF-302A-25*	84 (3.31)	303 (11.93)
DMF-302A-28*	88 (3.46)	311 (12.24)
DMF-302A-30*	92 (3.62)	319 (12.56)



**B**

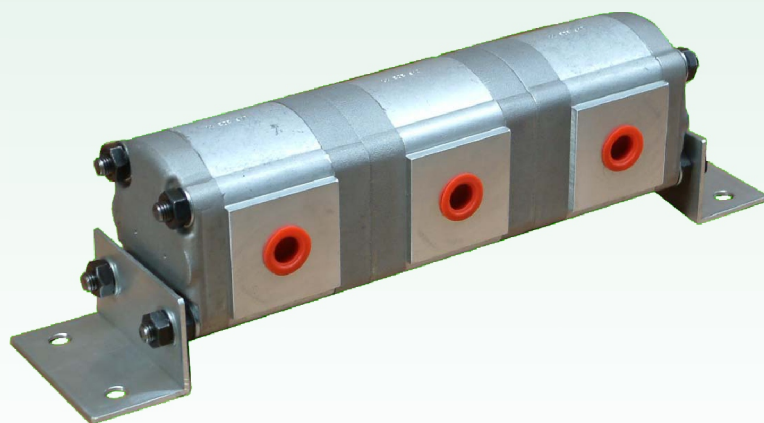
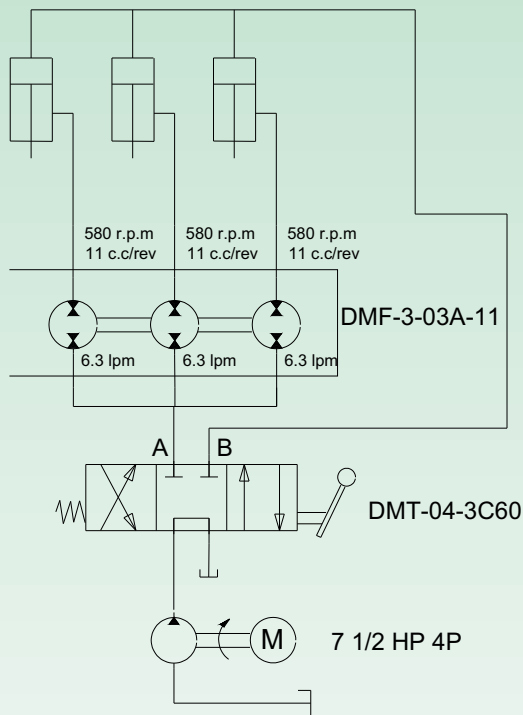
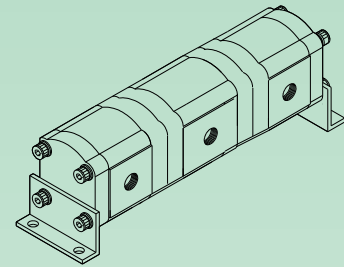
## TEST CONDITIONS:

MODEL: DMF-3-03A-11

MIN SPEED (r.p.m): 580 r.p.m

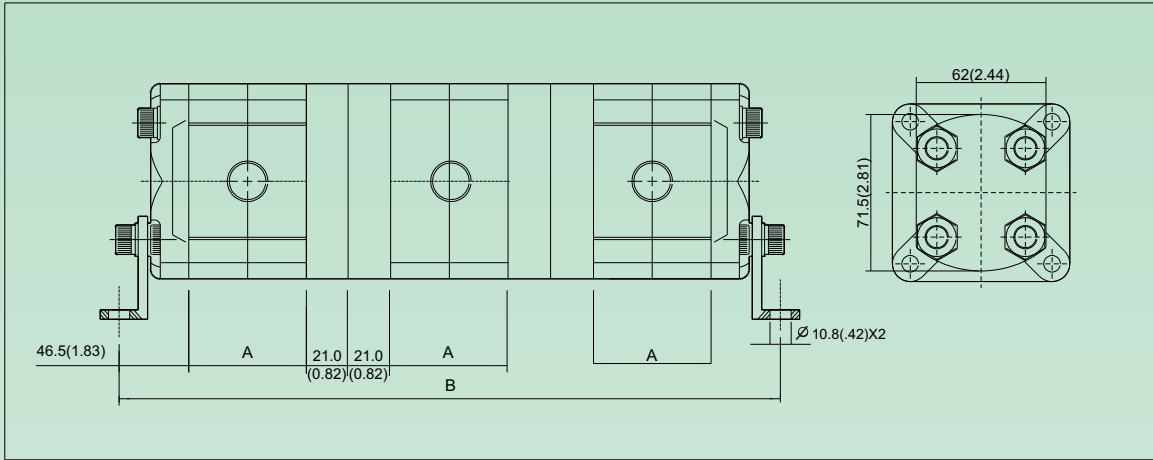
STAR UP PREEASURE : Min 30 bar

NOISE LEVEL: 70dB(A) 1M (39.4 inch) from pump



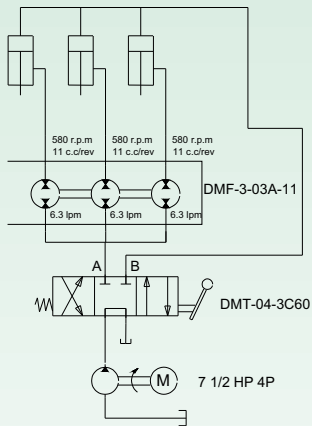
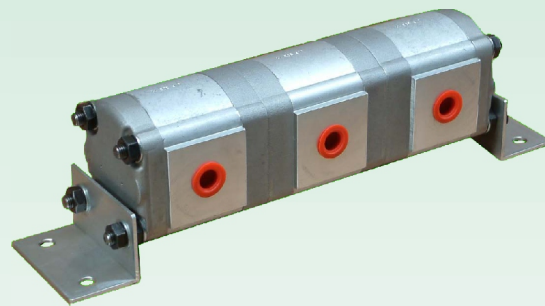
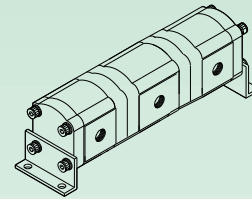
## B

### DMF-303A Series Synchronous Flow Dividers



#### TEST CONDITIONS:

**MODEL:** DMF-3-03A-11  
**MIN SPEED (r.p.m):** 580 r.p.m  
**STAR UP PRESSURE :** Min 30 bar  
**NOISE LEVEL:** 70dB(A) 1M (39.4 inch) from pump



Series	Dimension A mm(inch)	Dimension B mm(inch)
DMF-303A-6*	52 (2.05)	333 (13.11)
DMF-303A-8*	55 (2.17)	342 (13.46)
DMF-303A-11*	60 (2.36)	357 (14.05)
DMF-303A-13*	64 (2.52)	369 (14.52)
DMF-303A-14*	66 (2.60)	375 (14.76)
DMF-303A-17*	70 (2.76)	387 (15.23)
DMF-303A-19*	74 (2.91)	399 (15.70)
DMF-303A-23*	81 (3.19)	420 (16.53)
DMF-303A-25*	84 (3.31)	429 (16.88)
DMF-303A-28*	88 (3.46)	441 (17.36)
DMF-303A-30*	92 (3.62)	453 (17.83)

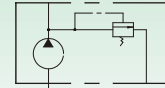
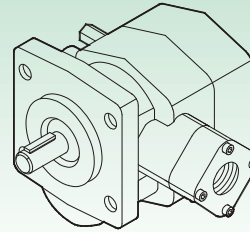


## DIMENSIONS

MILLIMETERS(INCHES)

### PR1 Series Gear Pump with Relief Valve

Pmax : 210 bar (3000 psi)  
 Qmax : 2 cc/rev ~ 12 cc/rev  
 Mounting Type : JIS 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



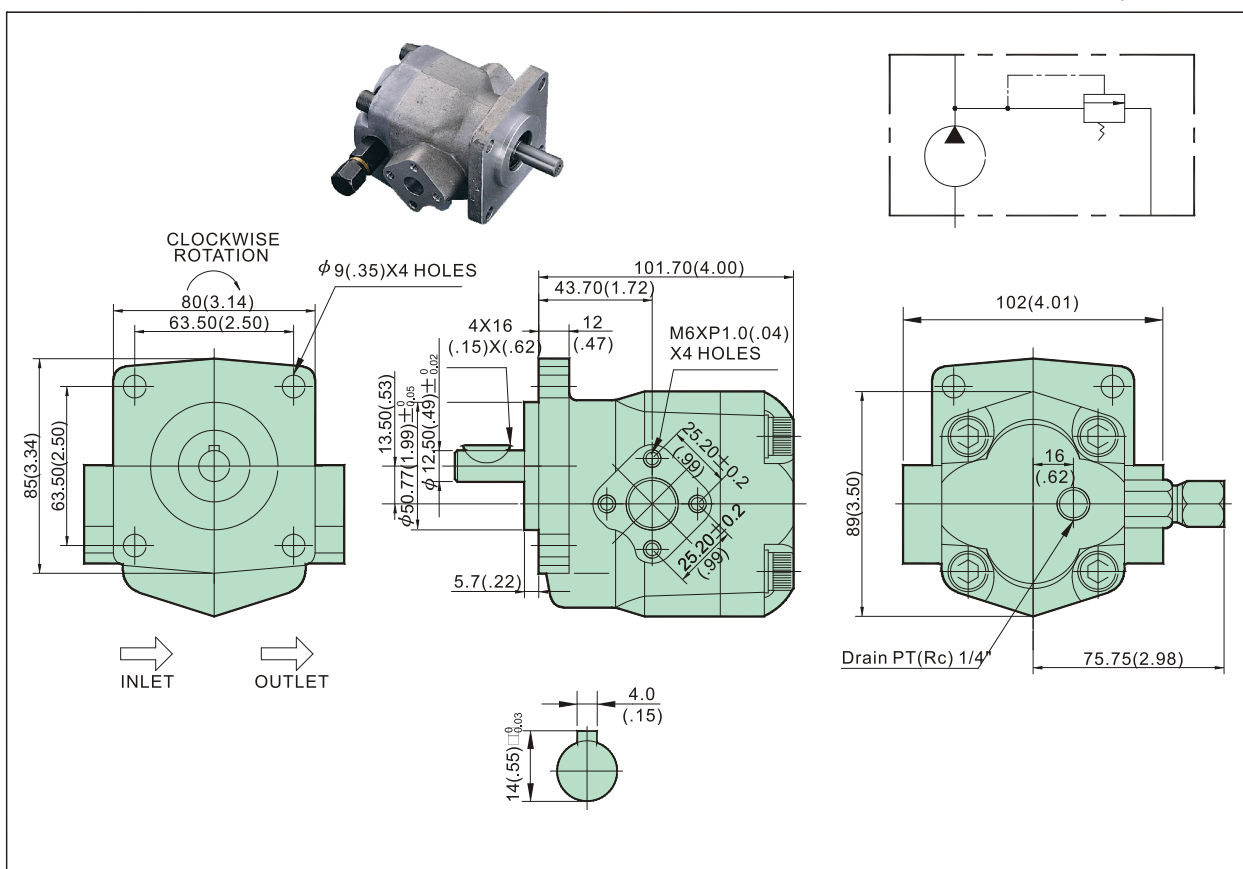
# B

#### ■ Ratings

Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm			Weight Kg(lb)
		Work	Max.	Rate	Max.	Min.	
PR1-020	2	175 (2500)	210 (3000)	1800	5000	900	1.70(3.77)
PR1-030	3				5000	850	1.70(3.77)
PR1-040	4				4500	800	1.70(3.77)
PR1-060	6				3500	700	1.70(3.77)
PR1-075	7.5				3000	600	1.70(3.77)
PR1-090	9				2500	550	1.70(3.77)
PR1-105	10.5				2000	500	1.70(3.77)
PR1-120	12				2000	500	1.70(3.77)

## DIMENSIONS

MILLIMETER(INCHES)

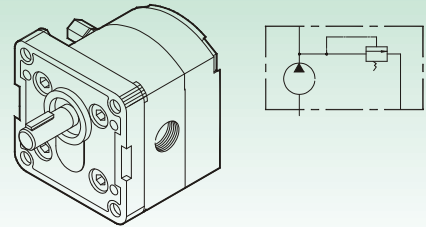




**B**

## PR2 Series Gear Pump with Relief Valve

Pmax : 210 bar (3000 psi)  
 Qmax : 2 cc/rev ~ 12 cc/rev  
 Mounting Type : JIS 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR

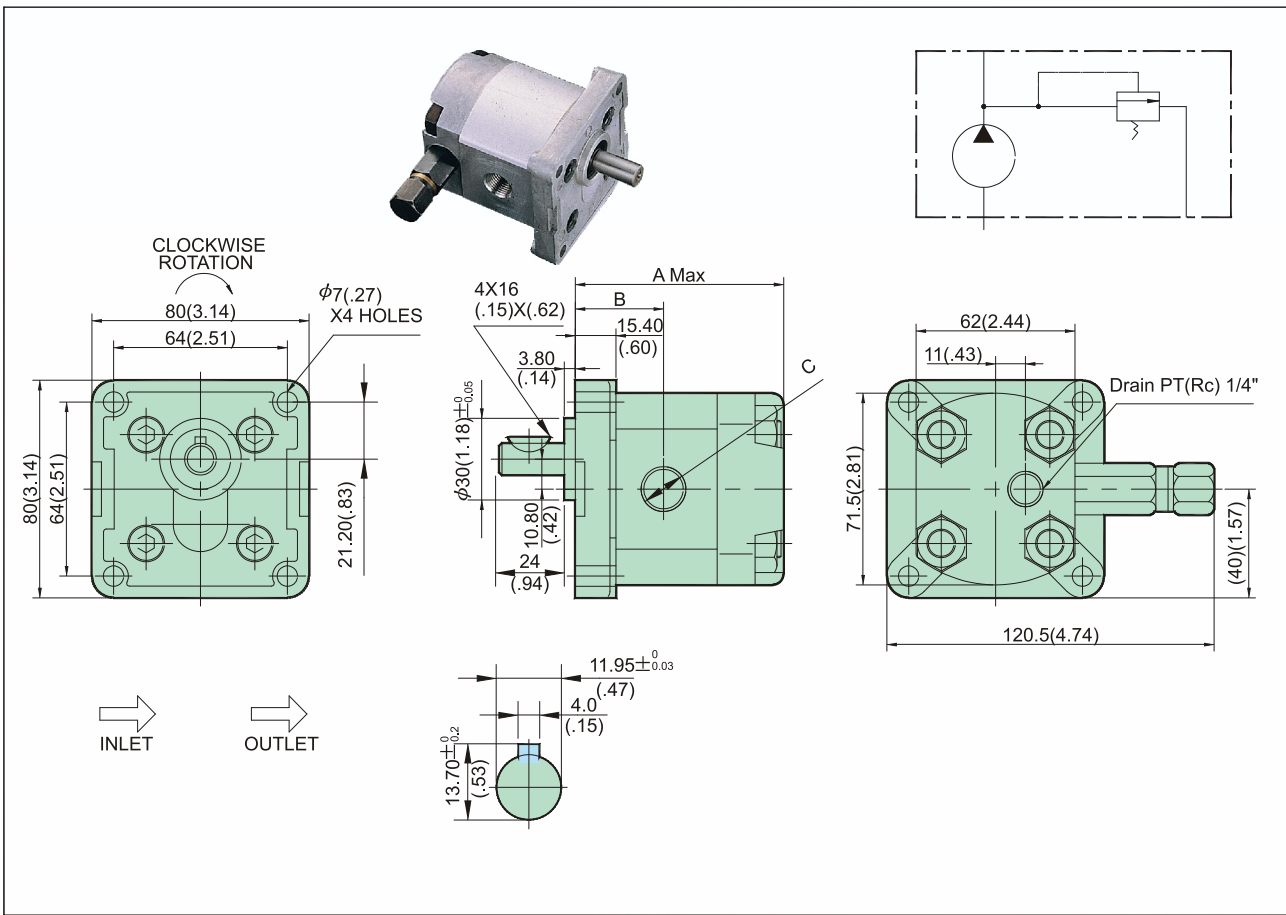


### ■ Ratings

Series	Geometric Displacement cc/rev	Pressure bar (psi)		Speed rpm			Weight Kg(lb)
		Work	Max.	Rate	Max.	Min.	
PR2-010	1	175 (2500)	210 (3000)	1800	4500	1000	1.10(2.44)
PR2-020	2				4500	600	
PR2-030	3				4500	600	
PR2-040	4				4000	600	
PR2-050	5				3200	600	
PR2-060	6				3200	600	
PR2-080	7.8				3200	600	

### DIMENSIONS

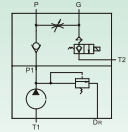
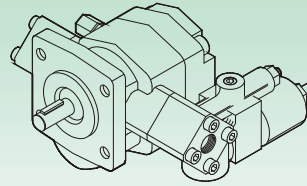
### MILLIMETER(INCHES)





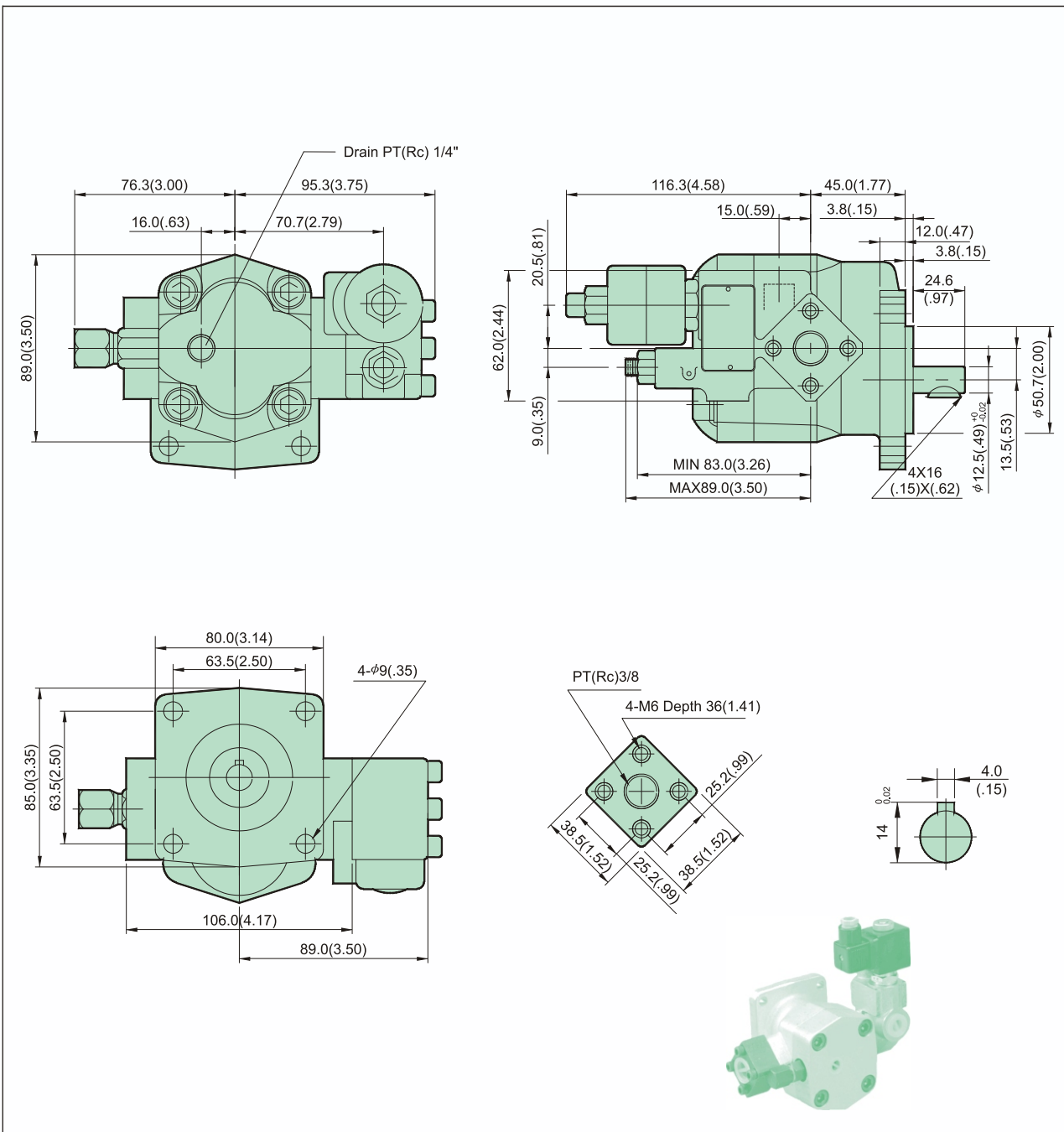
## PR1 + V2064 Series Gear Pump with Lift Valve

Pmax : 210 bar (3000 psi)  
 Qmax : 20 lpm (1800 rpm)  
 Mounting Type : JIS 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15°C to 80°C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



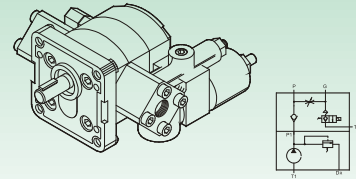
### DIMENSIONS

### MILLIMETER(INCHES)



### PR2 + V2064 Series Gear Pump with Valve

Pmax : 210 bar (3000 psi)  
 Qmax : 20 lpm (1800 rpm)  
 Mounting Type : SAE 2-bolt DIN 4-bolt  
 Fluid : ISO VG32 or VG46  
 Viscosity & Temp : 12~800 cSt & -15 °C to 80 °C  
 Filtration : 260 Microns Absolute or Finer  
 Alignment and installation of pumps : under 0.05 TIR



#### DIMENSIONS

#### MILLIMETER(INCHES)

##### ■ Ratings

Series	Dimension A mm(in)	Dimension B mm(in)
PR2-010	81(3.19)	14.8(.58)
PR2-020	85.6(3.37)	14.8(.58)
PR2-030	91(3.58)	14.8(.58)
PR2-040	97(3.82)	17.5(.69)
PR2-060	103(4.06)	17.5(.69)
PR2-080	109(4.29)	17.5(.69)

