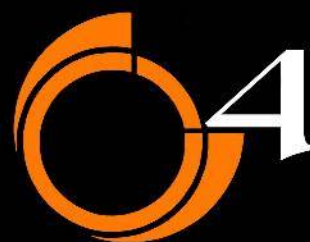


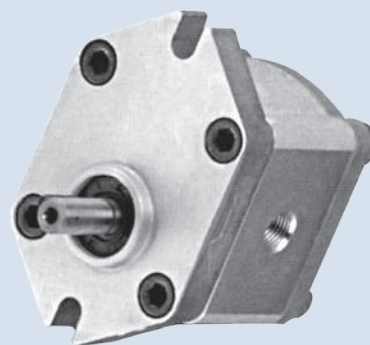
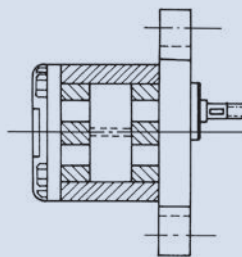


HYDRAULIC GEAR PUMPS

HI HYDROME



Symbol



HGP - 05A - F - ✖ - R - X

1	2	3	4	5	6
1	Model				
2	Series number				
3	Mouning type	F: Flange mounting		L: Foot mounting	
4	Displacement cc/rev				
5	Rotation	R: Clockwise		L: Counter-clockwise	
6	Shaft type X: Straight shaft				

Model	Displacement (cc/rev)	Pressure bar (psi)		Runing Speed (rpm)			Port Size		Weight (kg)
		Working	Max.	Rate	Max.	Min.	Inlet	Outlet	
HGP-05A-※03※	0.35	210 (3000)	250 (3500)	1800	3500	800	1/8"	1/8"	0.40
HGP-05A-※05※	0.56								0.42
HGP-05A-※08※	0.85						1/4"	1/4"	0.43
HGP-05A-※1.1※	1.13								0.44

CW ROTATION

Dimensions:

- Overall width: 49
- Overall height: 77
- Top mounting hole offset: 22.5
- Bottom handle offset: 6.8
- Side view dimensions: B Max, 3.8, 10.25, 3x12, 10.25
- Threaded holes: $\varnothing 22^{+0}_{-0.05}$, $\varnothing 8^{+0}_{-0.02}$
- Bottom view dimensions: 9.20, 3
- Front view dimension: 49

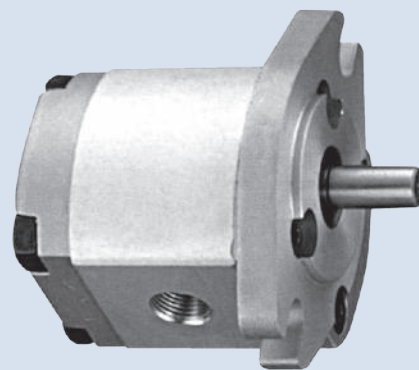
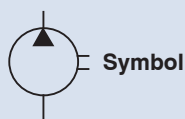
Model	Dimension A
HGP-05A-*03*	52
HGP-05A-*05*	54
HGP-05A-*08*	56
HGP-05A-*1.1*	58

Model	Dimension B
HGP-05A-*03*	25
HGP-05A-*05*	26
HGP-05A-*08*	27
HGP-05A-*1.1*	28

Unit:mm

The performance chart for the 1000 Series Hydraulic Pump displays two sets of curves. The left set shows Working Pressure (bar) on the y-axis (ranging from 50 to 200) against Power Input (Hp) on the x-axis (ranging from 0.5 to 2.5). The right set shows Flow (lpm) on the y-axis (ranging from 1 to 7) against Speed (rpm) on the x-axis (ranging from 1000 to 6000). Both sets of curves represent different flow rates, with the top curve corresponding to 1000 lpm and the bottom curve corresponding to 100 lpm.

GEAR PUMP



How to order

HGP - 1A - F - * - R - X - 2B

	1	2	3	4	5	6	7
1	Model	HGP: Gear pump only	PR2: Gear pump with relief (see page 136)				
2	Series number						
3	Mounting type	F: Flange mounting	L: Foot mounting				
4	Displacement cc/rev						
5	Rotation	R: Clockwise	L: Counter-clockwise				
6	Shaft type	X: Straight shaft	Y: Splined shaft				
7	Mounting flange	2B: SAE 2-Bolt	4BD: Din 4-Bolt	4BE: European 4-Bolt			

Specifications

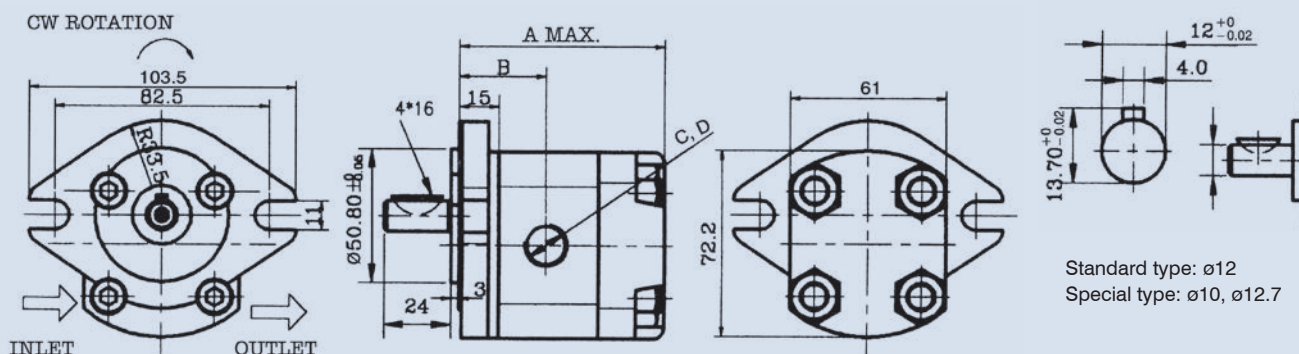
Model	Displacement (cc/rev)	Pressure bar (psi)		Runing Speed (rpm)			Weight (kg)
		Working	Max.	Rate	Max.	Min.	
HGP-1A-F1*	1				4500	1000	1.0
HGP-1A-F2*	2				4500	600	1.05
HGP-1A-F3*	3				4500	600	1.15
HGP-1A-F4*	4				4000	600	1.18
HGP-1A-F5*	5				3200	600	1.2
HGP-1A-F6*	6				3200	600	1.3
HGP-1A-F8*	7.8				3200	600	1.4

Remark: HGP-1A-F05 (0.5 cc/rev), F08 (0.8 cc/rev) and F2.6 (2.6 cc/rev) are for special order.

Dimensions

HGP-1A-F-*-*-*-2B(SAE 2-Bolt)

Unit:mm

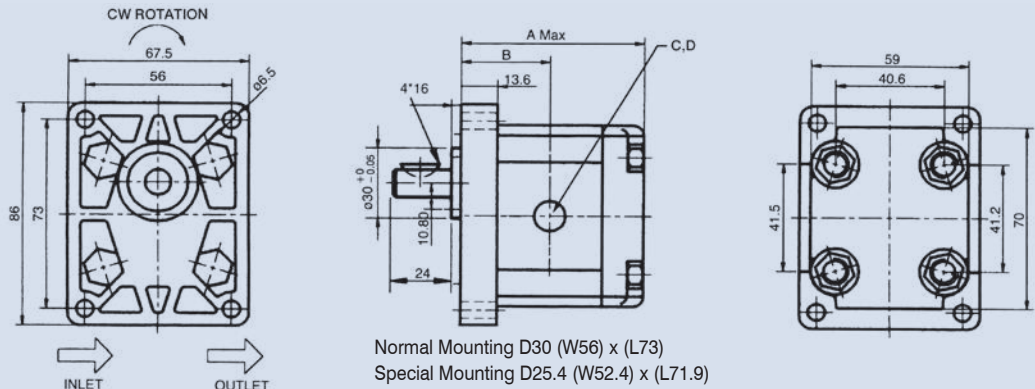


GEAR PUMP

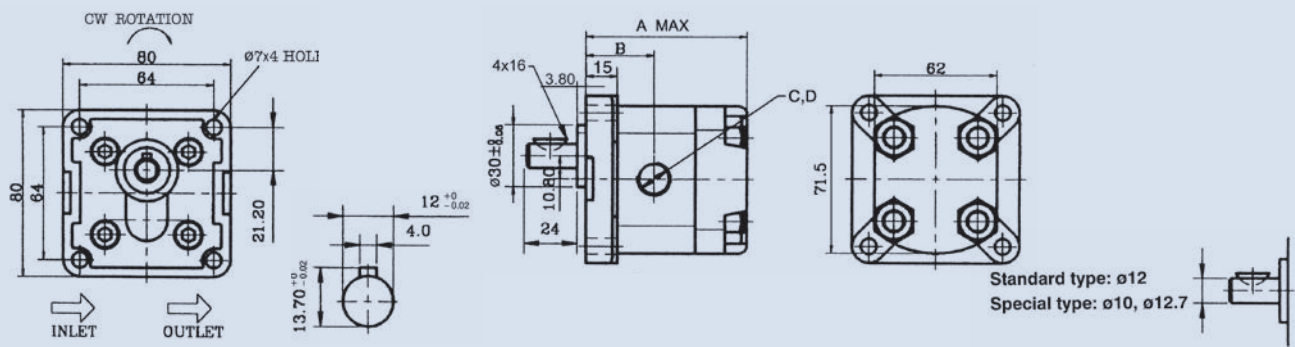
Dimensions

HGP-1A-F-**-**-4BD (DIN 4-Bolt)

Unit:mm



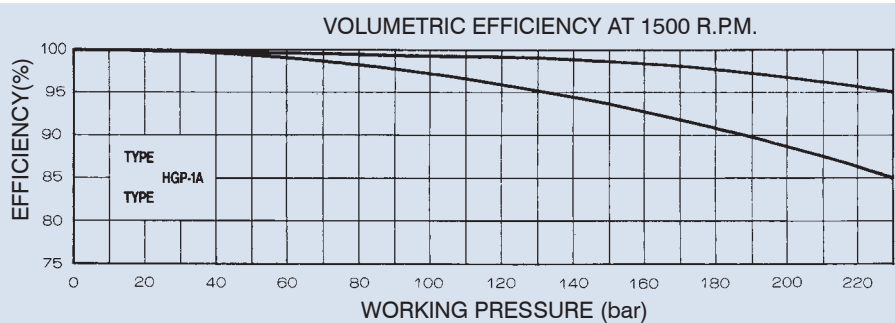
HGP-1A-F-**-**-4BE (European 4-Bolt)



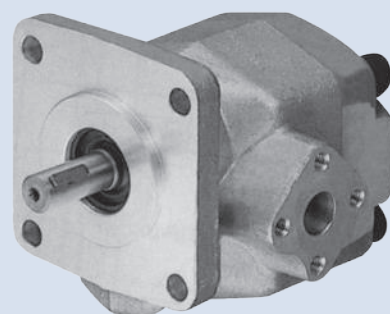
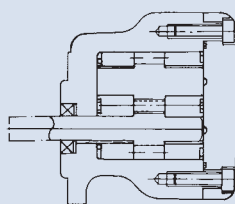
Specifications

Model	Dimension A (mm)		Dimension B (mm)	Port Size C, D	
	4BD	4BE		inlet	outlet
HGP-1A-F08*	67.5	75.5	32.5	3/8" PT	3/8" PT
HGP-1A-F1*	69.5	77.5	33.5	3/8" PT	3/8" PT
HGP-1A-F2*	72	80.1	34.8	3/8" PT	3/8" PT
HGP-1A-F3*	77.5	85.5	37.5	3/8" PT	3/8" PT
HGP-1A-F4*	79.5	87.5	38.5	3/8" PT	3/8" PT
HGP-1A-F5*	82.5	91.5	40.5	3/8" PT	3/8" PT
HGP-1A-F6*	87.5	95.5	42.5	3/8" PT	3/8" PT
HGP-1A-F8*	93.5	101.50	45.5	1/2" PT	3/8" PT

Performance curves



GEAR PUMP



How to order

HGP - 2A - F - ※ - R - X - 4BJ

1	2	3	4	5	6	7
1	Model	HGP: Gear pump only	PR1: Gear pump with relief (see page 135)			
2	Series number					
3	Mounting type	F: Flange type	L: Foot type			
4	Displacement cc/rev					
5	Rotation	R: clockwise	L: Counter-clockwise			
6	Shaft type	X: Straight shaft	Y: Splined shaft			
7	Mounting flange	4BJ: JIS 4-Bolt				

Specifications

Model	Displacement (cc/rev)	pressure bar (psi)		Runing Speed (rpm)			Weight (kg)
		Working	Max.	Rate	Max.	Min.	
HGP-2A-※2※	2	210 (3000)	250 (3500)	1800	5000	900	1.69
HGP-2A-※3※	3				5000	850	1.70
HGP-2A-※4※	4				4500	800	1.71
HGP-2A-※6※	6				3500	700	1.72
HGP-2A-※8※	8				3000	600	1.74
HGP-2A-※9※	9				2500	550	1.74
HGP-2A-※11※	11	175 (2500)	210 (3000)		2000	500	1.74
HGP-2A-※12※	12				2000	550	1.76

REMARK: HGP-2A-F2.5 (2.5 cc/rev) and F5 (5 cc/rev) are for special order.

FEATURES:

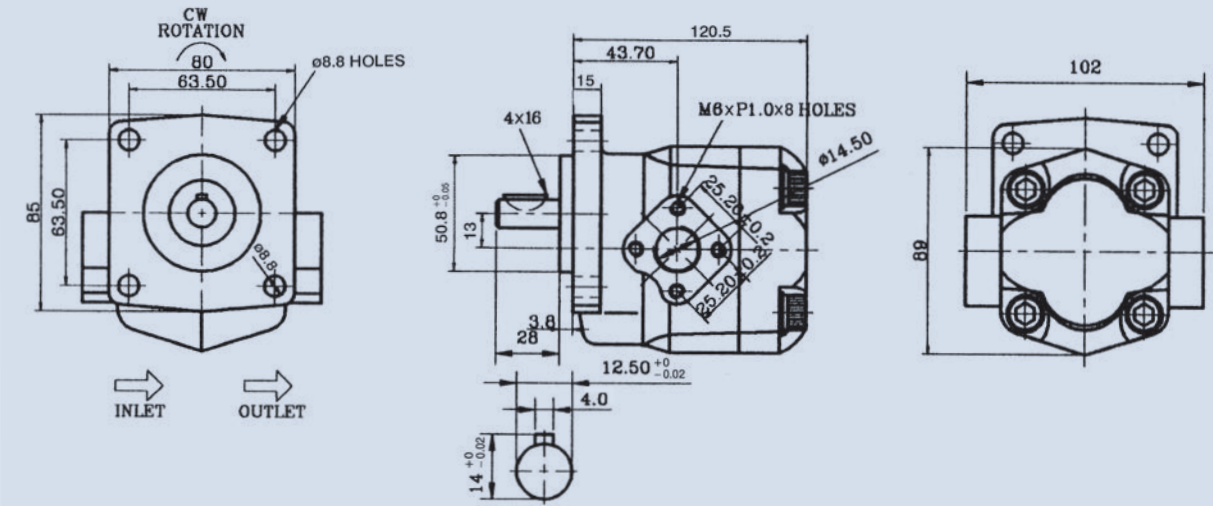
1. High-Tech aluminum alloy bushings and dry bearings are used to ensure wearing resistance and withstand extra high speed up to 5000 R.P.M.
2. The woodruff key used in this pump withstands much higher torque.
3. A special internal circuit design guarantees that the seal will not be pooped out in case of instant reverse.
4. Dual balanced plating with the bushings is designed such that pump is totally sealed for higher volume efficiency as well as durability.
5. Useful in various applications such as construction machines, Hydraulic elevator and other special purpose machinery.
6. Relief valve can be added on pump case and in connection with lifting valve for use in Hydraulic elevator.

GEAR PUMP

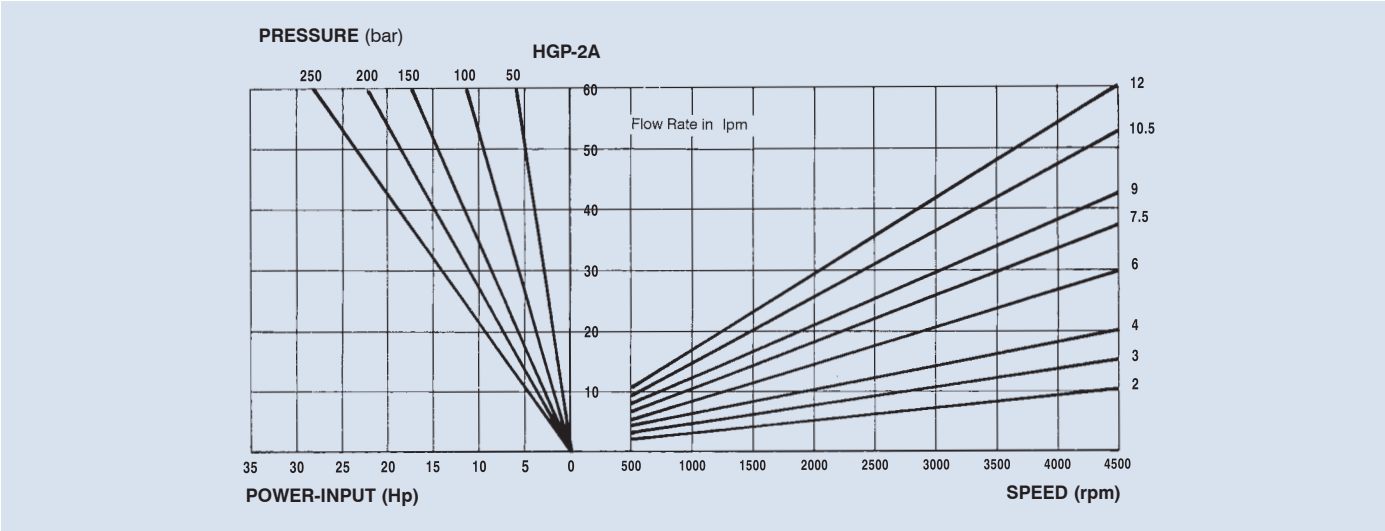
Dimensions

HGP-2A

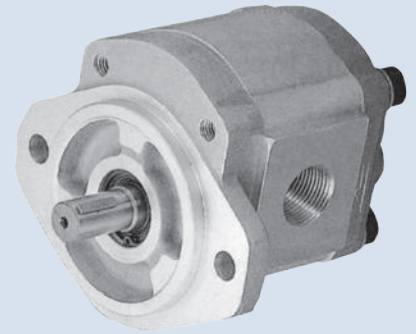
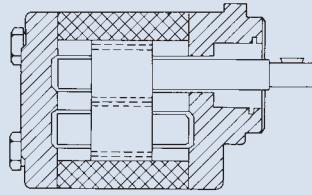
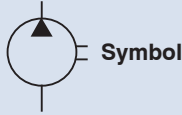
Unit:mm



Performance curves



GEAR PUMP



How to order

HGP - 3A - F - ※ - R - X - 2B

1	Model
2	Series number
3	Mounting type F: Flange type L: Foot type
4	Displacement cc/rev
5	Rotation R: Clockwise L: Counter-clockwise
6	Shaft type X: Straight shaft (Normal: DIA 15.875=2~30 cc/rev, 17.46=33~35 cc/rev) Y: Splined shaft Z: Taper shaft
7	Mounting flange 2B: SAE 2-Bolt 4BD: DIN 4-Bolt

Specifications

Model	Displacement (cc/rev)	Pressure bar (psi)		Runing Speed (rpm)			A	B	Port Size C,D		Weight (kg)
		Working	Max.	Rate	Max.	Min.			Inlet	Outlet	
HGP-3A-※2※	2	210 (3000)	250 (3500)	1800	3000	700	97.4	46.7	3/4"	1/2"	2.19
HGP-3A-※3※	3						99	47.5			2.23
HGP-3A-※4※	4						101	48.5			2.29
HGP-3A-※6※	6						105	50			2.37
HGP-3A-※8※	8.4						109	51.5			2.45
HGP-3A-※11※	11					600	113	54			2.6
HGP-3A-※13※	13						117	56			2.7
HGP-3A-※14※	14.3						119	57			2.76
HGP-3A-※17※	16.5						123	59			2.87
HGP-3A-※19※	19.2						127	61			2.99
HGP-3A-※23※	23	175 (2500)	210 (3000)	1200	2500	500	134	65	1"	3/4"	3.19
HGP-3A-※25※	25						137	66			3.24
HGP-3A-※28※	28						141	68			3.35
HGP-3A-※30※	30						145	70			3.45
HGP-3A-※33※	33						150	73			3.6
HGP-3A-※35※	35						154	75			3.71

FEATURES:

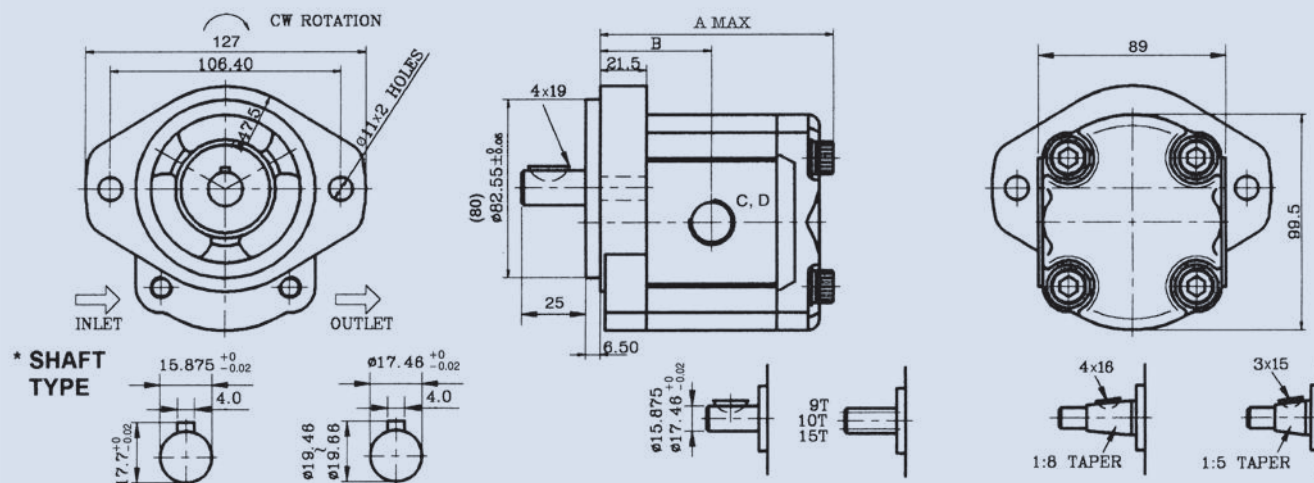
1. Dual balanced plating and dry bearings used in this pump feature excellent resistance to wearing, thrust, impact, as well as extra high speed revolution.
2. Dual balanced plating with the bushings is designed such that pump is totally sealed for higher volume efficiency as well as durability.
3. The woodruff key used in this pump withstands much higher torque.
4. A special internal circuit design guarantees that the seal will not be popped out in case of instant reverse.
5. Withstands instant pressure up to 210 bar (3000 psi) and runs up to 2000000 cycles.
6. Direction may be changed at any time.

GEAR PUMP

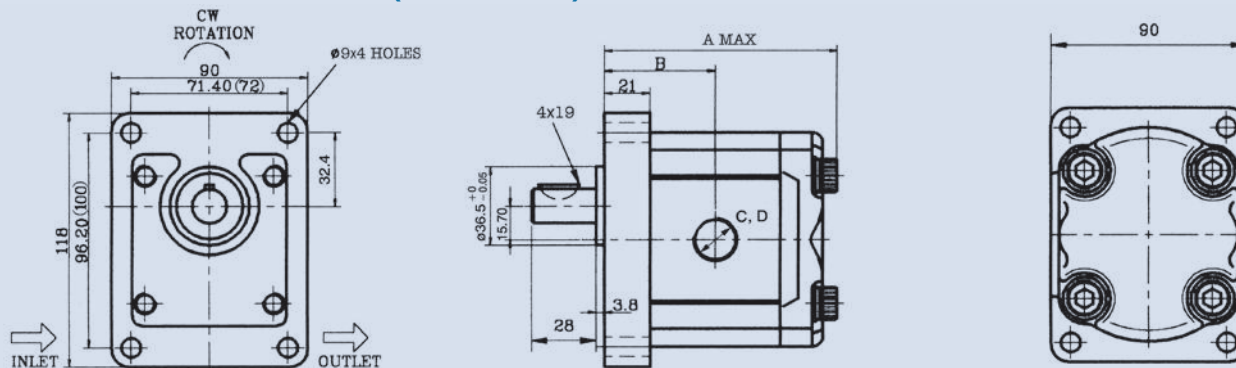
Dimensions

HGP-3A-F-※-※-※ - 2B (SAE 2-Bolt)

Unit:mm

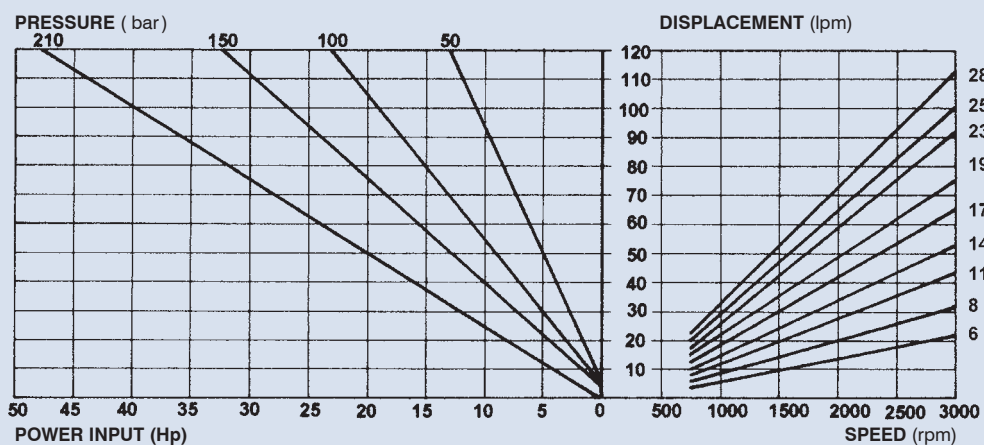


HGP-3A-F-❖-❖-❖- 4BD (DIN 4-Bolt)

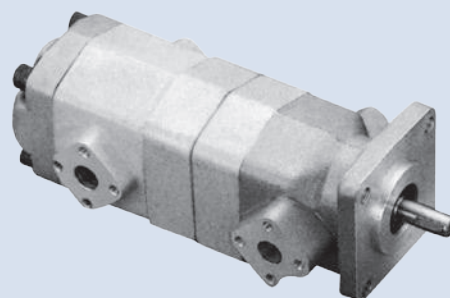
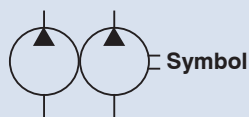


REMARK: The size in () is for special order, see page 131 for the size of A, B and port size C, D.

Performance curves



DOUBLE GEAR PUMP



D

How to order

HGP - 22A - F - 32 - R - X - 4BJ

1	2	3	4	5	6	7
1	Model					
2	Series number					
3	Mounting type F: Flange type L: Foot type					
4	Displacement cc/rev 32: P1=3 cc/rev P2=2 cc/rev					
5	Rotation R: Clockwise L: Counter-clockwise					
6	Shaft type X: Straight shaft Y: Splined shaft Z: Taper shaft					
7	Mounting flange 4BJ: JIS 4-Bolt					

Specifications

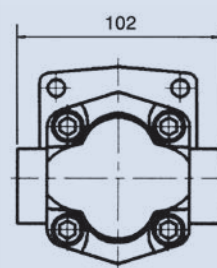
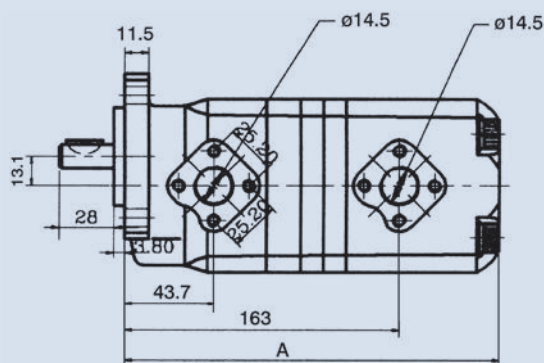
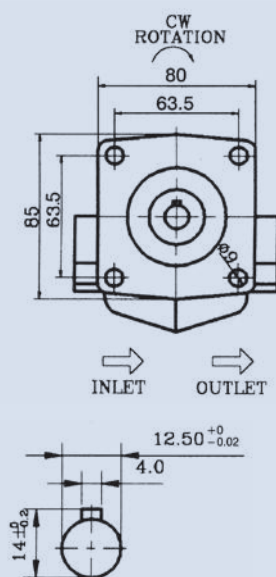
(Refer to page 129)

Working pressure: 210 bar (3000 psi)

Displacement: 4 cc/rev - 24 cc/rev

Mounting flange: JIS 4-Bolt

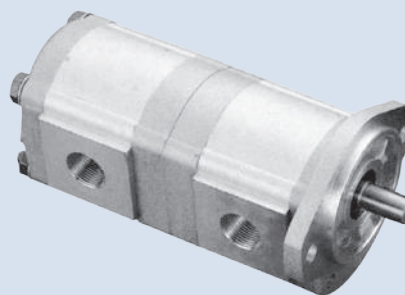
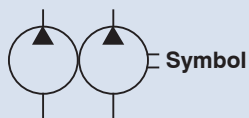
Dimensions



Unit:mm

Model	A mm	Model	A mm	Weight (kg)
HGP-22A-*22*	220	HGP-22A-*88*	220	4.5
HGP-22A-*33*	220	HGP-22A-*99*	220	
HGP-22A-*44*	220	HGP-22A-*1111*	220	
HGP-22A-*66*	220	HGP-22A-*1212*	220	

DOUBLE GEAR PUMP



How to order

HGP - 33A - F - 32 - R - X - ※

1	2	3	4	5	6	7
1	Model					
2	Series number					
3	Mounting type F: Flange type L: Foot type					
4	Displacement cc/rev 32: P1=3 cc/rev P2=2 cc/rev					
5	Rotation R: clockwise L: Counter-clockwise					
6	Shaft type X: Straight shaft Y: Splined shaft Z: Taper shaft					
7	Mounting flange 2B: SAE 2-Bolt 4BD: DIN 4-Bolt					

Specifications

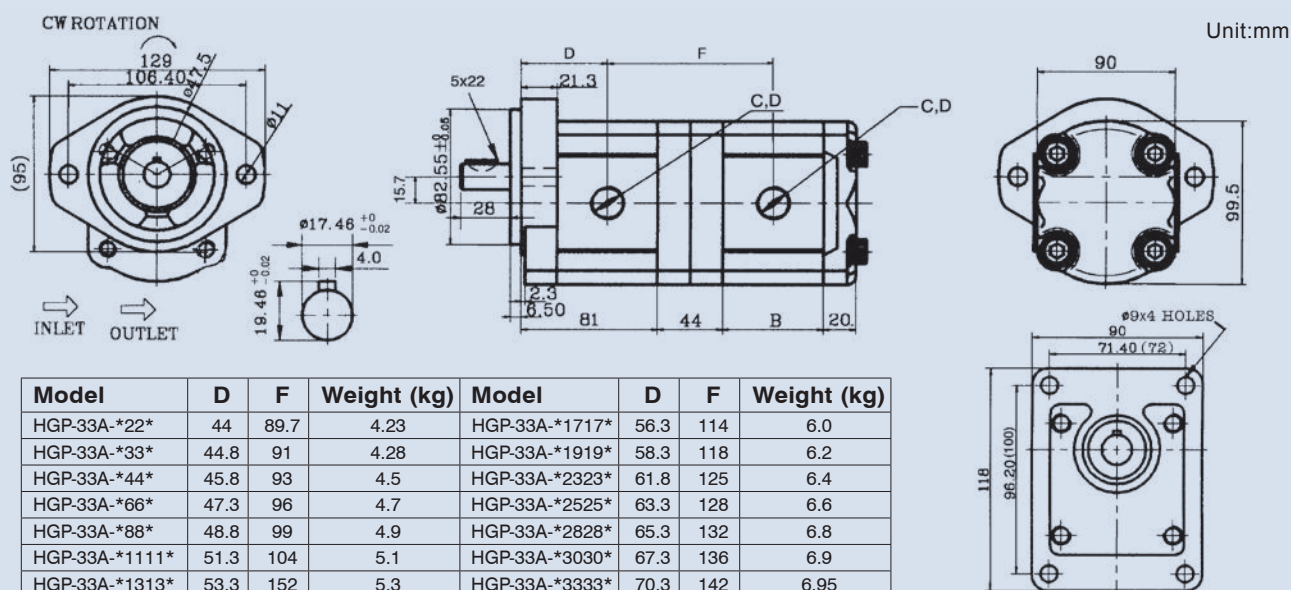
(Refer to page 131)

Working pressure: 210 bar (3000 psi)

Displacement: 4 cc/rev - 70 cc/rev

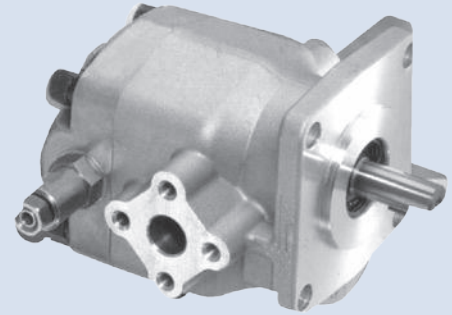
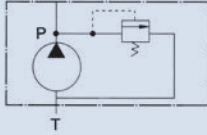
Mounting flange: SAE 2-Bolt DIN 4-Bolt

Dimensions



Remark: The size in () is for special order, see page 131 for the port size C, D.

GEAR PUMP WITH RELIEF VALVE



D

How to order

PR1 - F - ✖ - R - 4BJ

1	2	3	4	5
1	Model (Reper to page 129, 130)			
2	Mounting type F: Flange type L: Foot type			
3	Displacement cc/rev			
4	Rotation R: Clockwise L: Counter-clockwise			
5	Mounting flange 4BJ: JIS 4-Bolt			

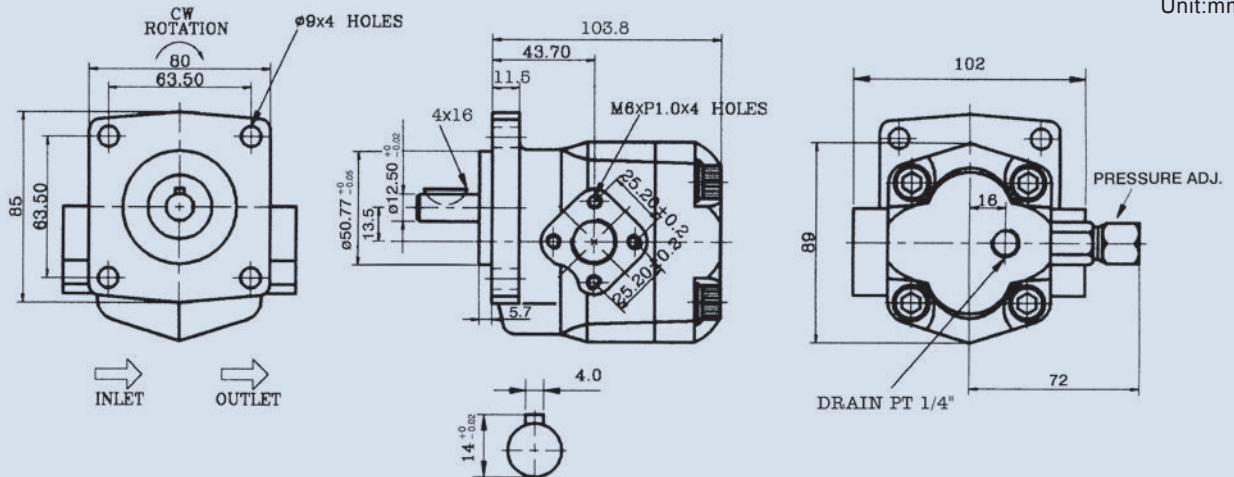
Specifications

Model	Displacement (cc/rev)	Pressure (bar) (psi)		Runing Speed (rpm)			Weight (kg)
		Working	Max.	Rate	Max.	Min.	
PR1-020	2	210 (3000)	250 (3500)	1800	5000	900	1.69
PR1-030	3				5000	850	1.7
PR1-040	4				4500	800	1.71
PR1-060	6				3500	700	1.72
PR1-075	7.5				3000	600	1.74
PR1-090	9				2500	550	1.74
PR1-105	10.5				2000	500	1.74
PR1-120	12				2000	500	1.76

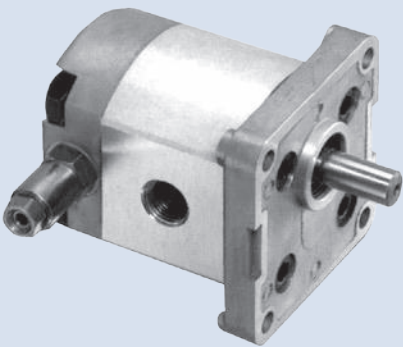
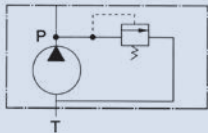
REMARK: PR1-F2.5 (2.5cc/rev) and F5 (5cc/rev) are for special order.

Dimensions

Unit:mm



GEAR PUMP WITH RELIEF VALVE



How to order

PR2 - F - ✖ - R - 4B

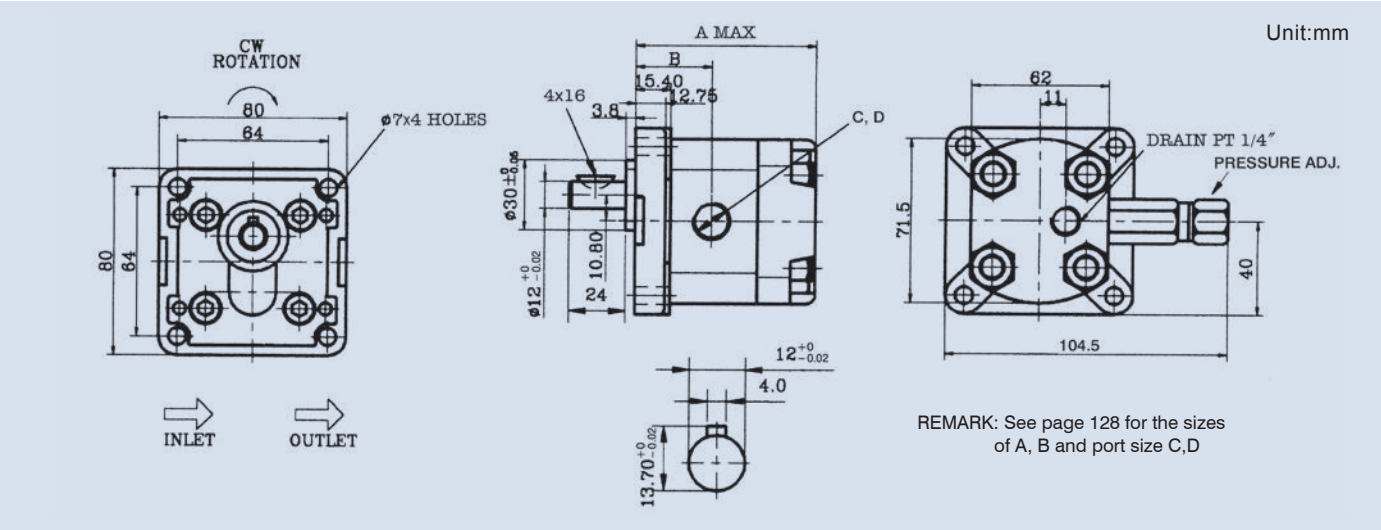
	1	2	3	4	5
1	Model (Reper to page 127, 128)				
2	Mounting type F: Flange type L: Foot type				
3	Displacement cc/rev				
4	Rotation R: Clockwise L: Counter-clockwise				
5	Mounting flange 2B: SAE 2-Bolt 4BD: DIN 4-Bolt 4BE: European 4-Bolt				

Specifications

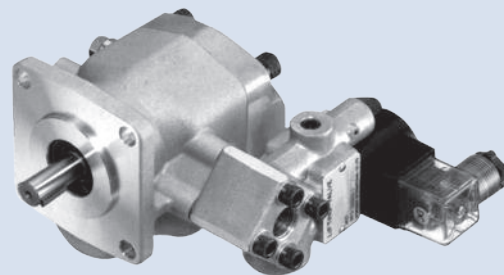
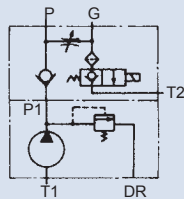
Model	Displacement (cc/rev)	Pressure bar (psi)		Runing Speed (rpm)			Weight (kg)
		Working	Max.	Rate	Max.	Min.	
PR2-010	1	210 (3000)	250 (3500)	1800	4500	1000	1.0
PR2-020	2				4500	600	1.05
PR2-030	3				4500	600	1.15
PR2-040	4				4000	600	1.18
PR2-050	5				3200	600	1.2
PR2-060	6				3200	600	1.3
PR2-080	7.8				3200	600	1.4

PEMARK: PR2-008 (0.8 cc/rev) and PR2-026 (2.6 cc/rev) are for special order.

Dimensions



GEAR PUMP WITH RELIEF VALVE + LIFT VALVE



D

How to order

PR1 - F - ※ - R - 4BJ - V2064 - ※

1 2 3 4 5 6 7

1	Model
2	Mounting type F: Flange type L: Foot type
3	Displacement cc/rev
4	Rotation R: Clockwise L: Counter-clockwise
5	Mounting flange 4BJ: JIS 4-Bolt
6	V2064: Lift valve
7	Coil voltage A11: AC110V (50/60 Hz) A22: AC220V (50/60 Hz) D12: DC12V D24: DC24V

Specifications

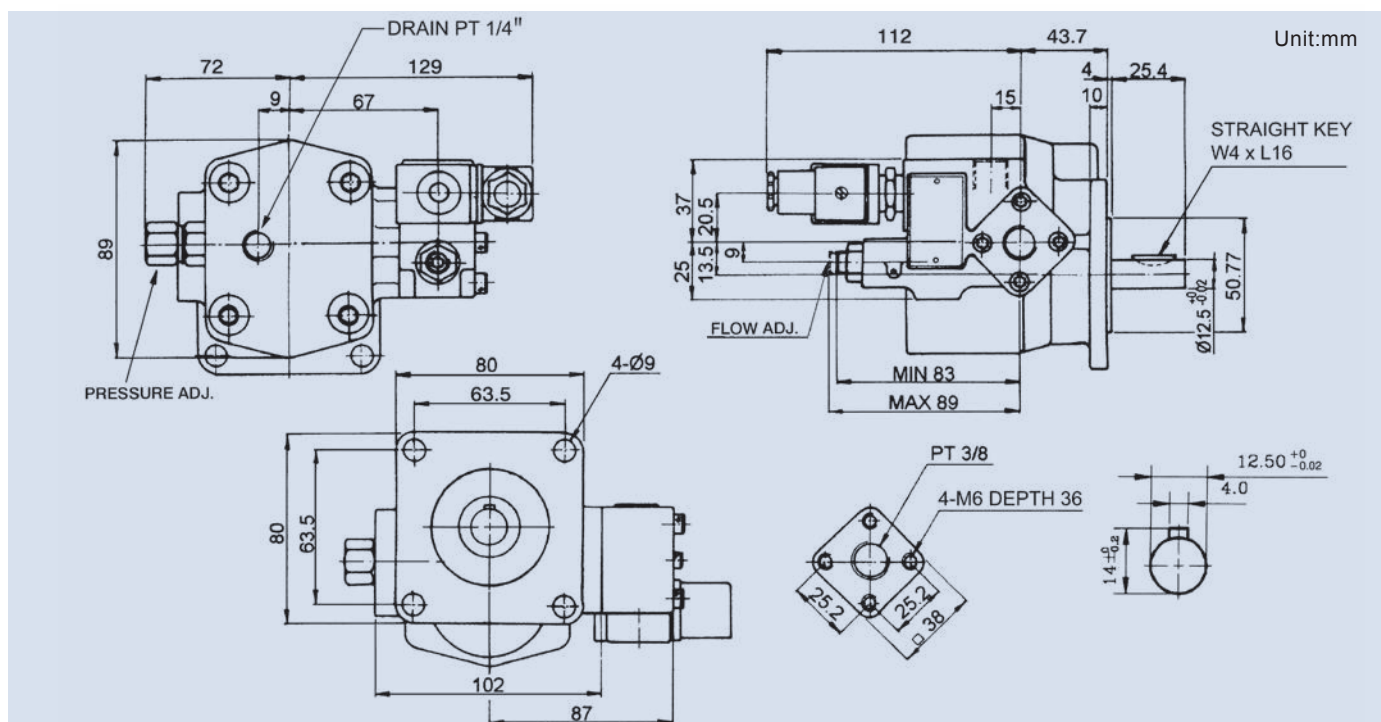
(Refer to page 135)

Working pressure: 210 bar (3000 psi)

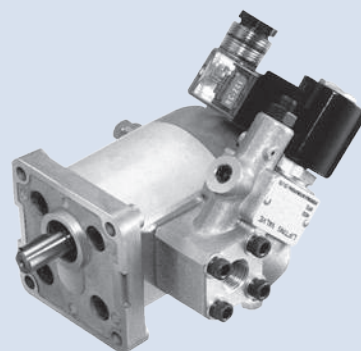
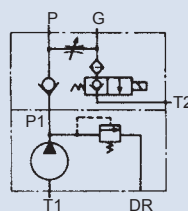
Displacement: 2 cc/rev - 12 cc/rev

Mounting flange: JIS 4-Bolt

Dimensions



GEAR PUMP WITH RELIEF VALVE + LIFT VALVE



How to order

PR2 - F - ※ - R - 4B - 2064 - ※

1 2 3 4 5 6 7

1	Model
2	Mounting type F: Flange type L: Foot type
3	Displacement cc/rev
4	Rotation R: Clockwise L: Counter-clockwise
5	Mounting flange 2B: SAE 2-Bolt 4BD: DIN 4-Bolt 4BE: European 4-Bolt
6	V2064: Lift valve
7	Coil voltage A11: AC110V(50/60 Hz) A22: AC220V(50/60 Hz) D12: DC12V D24: DC24V

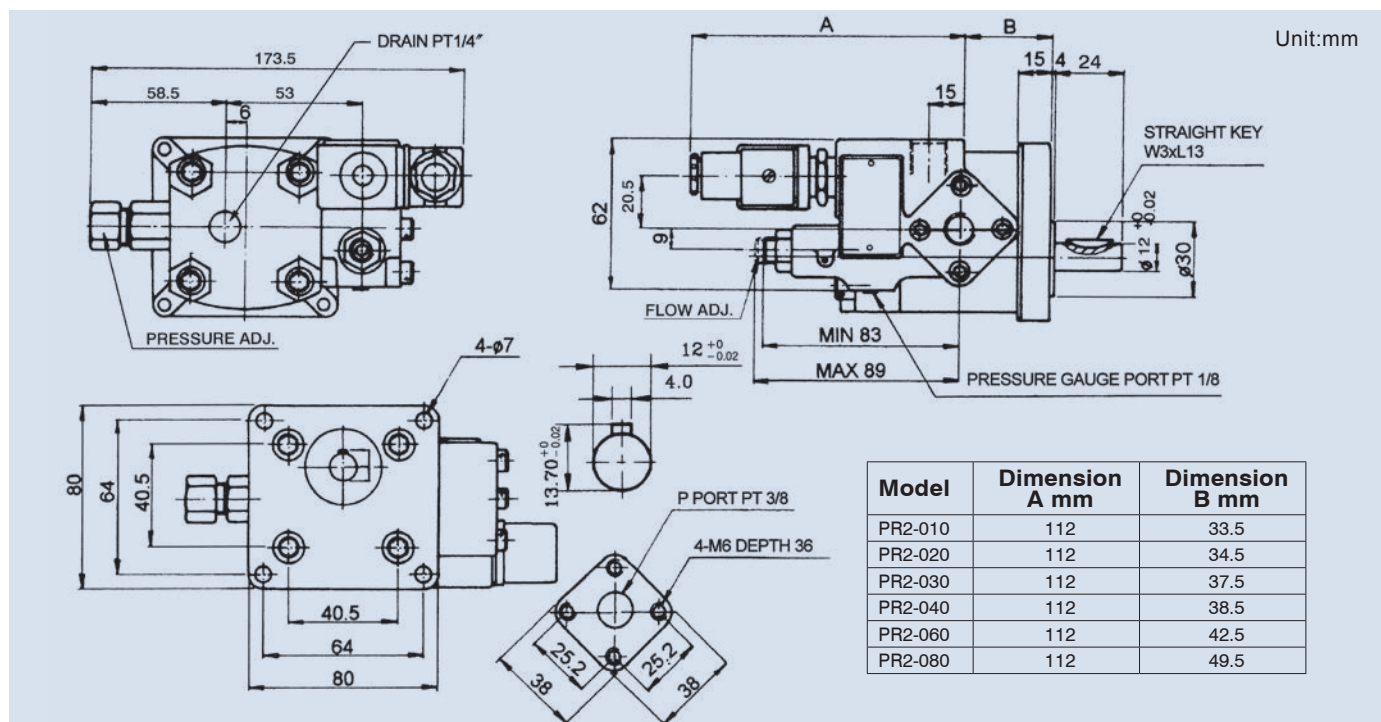
Specifications

(Refer to page 136)

Working pressure: 210 bar (3000 psi)

Displacement: 1 cc/rev ~ 7.8 cc/rev

Dimensions





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*Elements For
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