

HONOR



**High Pressure
Gear Pumps & Motors**

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COMPANY PROFILE

HonorGear Pumps Corp. was formed as a result of the purchase of a local hydraulic gear pump product line, which was established in 1984.

Since the completion of our acquisition in 1994, we have gained a reputation for design expertise and product quality through innovative engineering and leading edge production techniques. The skilled engineering staff at Honor Gear Pumps Corp. represents our commitment to the quality found in our product line. Internal design improvements have been made over the past 5 years, across the entire product line.

To further demonstrate our dedication to quality, we are certified UKAS ISO 9001:2008. In addition, our experienced sales staff and worldwide distributor network represents our goal of 100% customer satisfaction. We will continue to expand our product line based on market demand, and would be pleased to consider all customer requirements.



Group 1



HONOR

Gear Pumps Corp.

Group 2



Group 3



PRODUCT LINE

The Honor product line is made up of group 1 and group 2 pumps & motors and group 3 pumps & motors.

Group 1 product is defined by the mounting flange and shaft end. Mounting flanges can be the SAE "AA" two bolt, the US 4F-17 four bolt, four bolt European mounting flanges, and the "through-bolt" front manifold discharge DC power-pack design pump. Shaft ends can be keyed, spline, or tang depending on the customer requirement. Displacements offered are from .04 to .82 cubic inch per revolution depending on the specific model. Side ports are generally standard but rear ports can be available depending on the specific model.

Group 2 product is defined by the mounting flange and shaft end, and the function, be it pump or motor or bi-directional pump. Mounting flanges can be SAE "A" two bolt and four bolt European mounting flanges. Shaft ends can be keyed or spline or tapered depending on the customer requirement. Displacements offered are from .24 to 2.02 cubic inch per revolution depending on the specific model. O-ring side ports are standard but rear ports can be available depending on the specific model.

Group 3 product is defined by the mounting flange and shaft end, and the function, Mounting flanges can be SAE "B" & SAE "A" two bolt and four bolt European mounting flanges. Shaft ends can be keyed or spline or tapered depending on the customer requirement. Displacements offered are from 1.1 to 5.5 cubic inch per revolution depending on the specific model. O-ring side ports are standard but rear ports can be available depending on the specific model.

INSTALLATION NOTES

Verify rotation required as the wrong rotation can rupture the shaft seal. Check for proper shaft alignment as axial or radial loads are not permitted. Chain and belt drive is not recommended.

HYDRAULIC FLUIDS

The fluid must be specifically for hydraulic systems. A mineral oil based hydraulic fluid is recommended. For best service it should have anti-wear, anti-foaming, anti-oxidant, and anti-corrosion properties. Fluids should comply with DIN 51525 and VDMA 24317. Allowable temperature range of the oil is -10C to +80C. Fluid kinematic viscosity ranges are the following: Permitted range: 6-500cSt. Recommended range: 10-100cSt. Maximum start up value: <2000cSt.

FILTRATION

System filtration of 25 micron absolute (B=75 to higher) or better is required. Finer filtration is recommended. Pump wear due to oil contamination will not be cause for warranty consideration. New installations should require the system oil be filled through a 10-micron absolute filling system. Water contamination of the oil is not allowed.

HIGH PRESSURE GEAR PUMPS & MOTORS

MODEL CODE DESIGNATION

A typical model code would include the following:

☐	☐	☐	☐	☐	☐	☐
SERIES	TYPE	FLANGE	SHAFT	PORT	DISPL.	ROTATION

SERIES is pump body size, group 1 or group 2 or group 3.

TYPE refers to the type of pump, or motor it can be as further defined by the flange and gear set.

FLANGE is which front cover/flange depending on the gear set/shaft diameter.

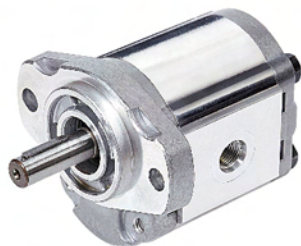
SHAFT is defined based on which flange is required and refers to the diameter and the end style, e.g., keyed, tang, spline, tapered.

PORTS are specific based on which series and flange is required. The size of the ports is generally defined by the pump series and displacement. Ports are SAE o-ring standard, and flange side ports standard, with rear port cover option.

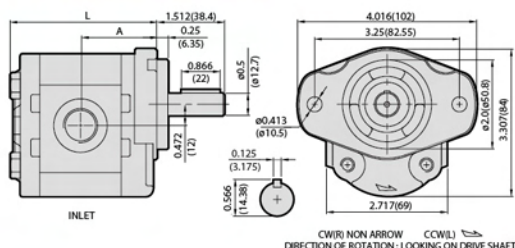
DISPLACEMENT is based on series and type.

ROTATION is "R" for clockwise (cw) and "L" for counterclockwise (ccw) as facing the shaft end. On bi-rotational motors and pumps, the rotation code is not required.

※ Double and triple pumps refer to page.



OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example **1** **A** **G** **2** **U** **DISPL.** **ROTATION**

SERIES TYPE FLANGE SHAFT PORT

If you need pump with displ.0.31 c.i.r and rotation is cw, the model number is : **1AG2U05R**

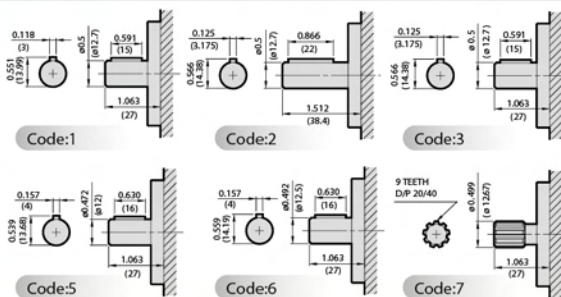
PERFORMANCE DATA

MODEL	DISPLACEMENT		PRESSURE		RPM RANGE	DIMENSIONS inch(mm)		WEIGHT	
	c.i.r	cm ³ /r	CONTINUOUS	MAX		A	L		
05	0.04	0.6	3000(21)	3600(25)	600	1.626(41.3)	3.114(79.1)	1.09	2.40
01	0.08	1.3	3000(21)	3600(25)		1.655(42.0)	3.173(80.6)	1.10	2.42
02	0.12	2.0	3000(21)	3600(25)		1.694(43.0)	3.252(82.6)	1.14	2.51
27	0.16	2.7	3000(21)	3600(25)		1.734(44.0)	3.331(84.6)	1.18	2.60
35	0.21	3.4	3000(21)	3600(25)		1.773(45.0)	3.409(86.6)	1.21	2.66
04	0.25	4.1	3000(21)	3600(25)	4000	1.813(46.0)	3.488(88.6)	1.25	2.75
05	0.31	5.1	3000(21)	3600(25)		1.872(47.5)	3.606(91.6)	1.30	2.86
06	0.37	6.1	3000(21)	3600(25)		1.931(49.0)	3.724(94.6)	1.35	2.97
07	0.45	7.4	2850(20)	3300(23)		2.009(51.0)	3.882(98.6)	1.41	3.10
09	0.55	9.1	2550(18)	2850(20)		2.108(53.5)	4.079(103.6)	1.49	3.28
11	0.67	11.0	2300(16)	2550(18)	600 (*)2500	2.226(56.5)	4.315(109.6)	1.58	3.48
13	0.82	13.5	2300(16)	2550(18)		2.364(60.0)	4.591(116.6)	1.69	3.72

*More than 2500 qualified per applications.

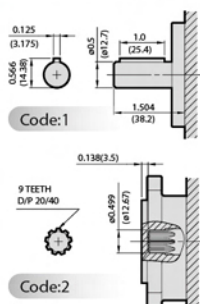
DRIVE SHAFTS

SUITABLE FOR G FLANGE

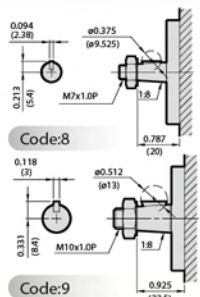


DRIVE SHAFTS

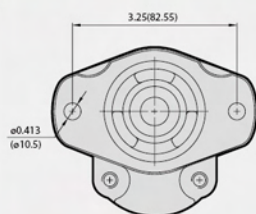
SUITABLE FOR K L FLANGE



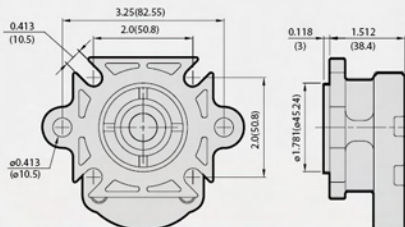
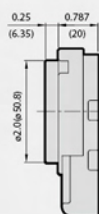
SUITABLE FOR C E FLANGE



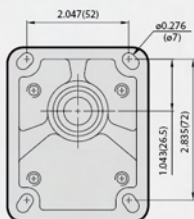
■ MOUNTING FLANGES



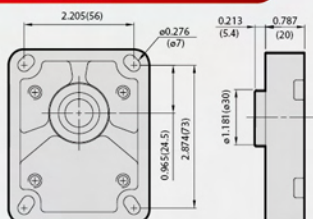
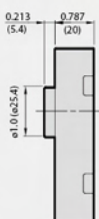
Code:G



Code:K- SAE AA-2 Bolts&4F17-4 BOLTS
Code:L- 4F17-4 BOLTS



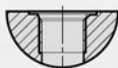
Code:C



Code:E

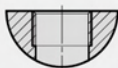
■ PORTS

UNF



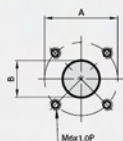
Code	From "05" to "06"		From "07" to "13"	
	INLET	OUTLET	INLET	OUTLET
U	UNF# 8 3/4"-16	UNF# 6 9/16"-18	UNF# 10 7/8"-14	UNF# 8 3/4"-16

PT 、 NPT 、 BSPF



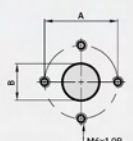
Code	From "05" to "06"		From "07" to "13"	
	INLET	OUTLET	INLET	OUTLET
P	PT 1/2"	PT 3/8"	PT 3/4"	PT 1/2"
N	NPT 1/2"	NPT 3/8"	NPT 3/4"	NPT 1/2"
B	BSPF 1/2"	BSPF 3/8"	BSPF 3/4"	BSPF 1/2"

FLANGE (SQUARE)



Code	From "05" to "13"	
	INLET & OUTLET	
F	A	B
	ø1.181 (30)	ø0.511 (13)

FLANGE (DIAMOND)



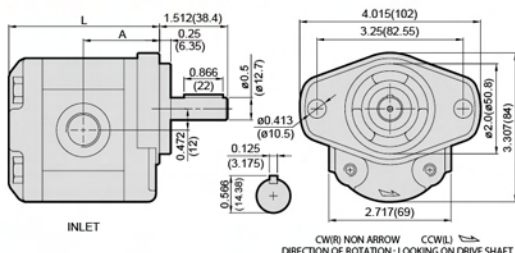
Code	From "05" to "13"	
	INLET & OUTLET	
E	A	B
	ø1.181 (30)	ø0.511 (13)

1G SERIES CAST IRON GEAR PUMPS



1G/1M SERIES

OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example

1

SERIES

G

TYPE

G

FLANGE

2

SHAFT

U

PORT

□

DISPL.

□

ROTATION

If you need pump with displ.0.31 c.i.r and rotation is cw, the model number is : **1GG2U05R**

PERFORMANCE DATA

MODEL	DISPLACEMENT		PRESSURE		RPM RANGE	DIMENSIONS		WEIGHT	
	c.i.r	cm ³ /r	CONTINUOUS	MAX.		A	L	Kg	LBS
01	0.08	1.3	3300(23)	3800(27)	600	1.655(42.0)	3.271(83.1)	1.75	3.85
02	0.12	2.0	3300(23)	3800(27)		1.694(43.0)	3.350(85.1)	1.79	3.94
27	0.16	2.7	3300(23)	3800(27)		1.734(44.0)	3.428(87.1)	1.83	4.03
35	0.21	3.4	3300(23)	3800(27)		1.773(45.0)	3.507(89.1)	1.86	4.09
04	0.25	4.1	3300(23)	3800(27)	4000	1.813(46.0)	3.586(91.1)	1.90	4.18
05	0.31	5.1	3300(23)	3800(27)		1.872(47.5)	3.704(94.1)	1.95	4.29
06	0.37	6.1	3300(23)	3800(27)		1.931(49.0)	3.822(97.1)	2.00	4.40
07	0.45	7.4	3100(22)	3500(25)		2.009(51.0)	3.980(101.1)	2.06	4.53
09	0.55	9.1	2850(20)	3100(22)	600	2.108(53.5)	4.176(106.1)	2.14	4.71
11	0.67	11.0	2550(18)	2850(20)		2.226(56.5)	4.412(112.1)	2.23	4.91
13	0.82	13.5	2550(18)	2850(20)		2.364(60.0)	4.688(119.1)	2.34	5.15

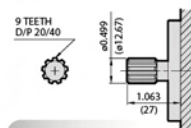
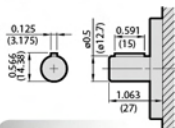
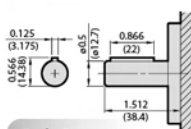
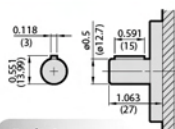
*More than 2500 qualified per applications.

PORTS

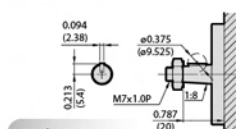
Code	From "01" to "06"		From "07" to "13"	
	INLET	OUTLET	INLET	OUTLET
U	UNF#8 3/4"-16	UNF#6 9/16"-18	UNF#10 7/8"-14	UNF#8 3/4"-16
P	PT 1/2"	PT 3/8"	PT 3/4"	PT 1/2"
N	NPT 1/2"	NPT 3/8"	NPT 3/4"	NPT 1/2"
B	BSPF 1/2"	BSPF 3/8"	BSPF 3/4"	BSPF 1/2"

DRIVE SHAFTS

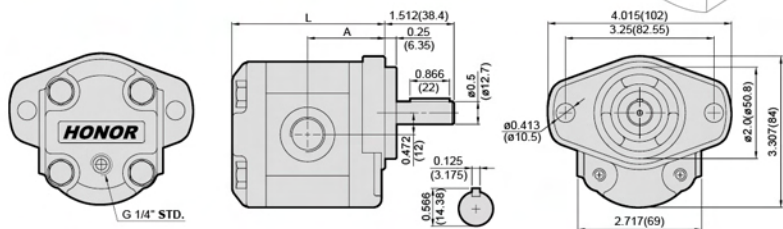
SUITABLE FOR G M FLANGE



SUITABLE FOR C E FLANGE



OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example

1

M

M

2

U

□□

SERIES

TYPE

FLANGE

SHAFT

PORT

DISPL.

If you need pump with displ.0.31 c.i.r., the model number is: **1MM2U05**

*Please note when using bi-directional or one direction or motor the case drain should not be plugged.

PERFORMANCE DATA

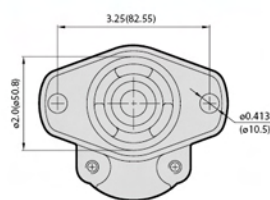
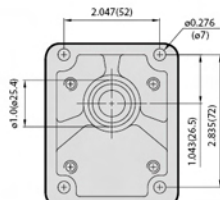
MODEL	DISPLACEMENT		PRESSURE		RPM RANGE	DIMENSIONS		WEIGHT	
	c.i.r.	cm ³ /r	CONTINUOUS	MAX.		A	L	Kg	LBS
01	0.08	1.3	3300(23)	3800(27)	600	1.655(42.0)	3.271(83.1)	1.75	3.85
02	0.12	2.0	3300(23)	3800(27)		1.694(43.0)	3.350(85.1)	1.79	3.94
27	0.16	2.7	3300(23)	3800(27)		1.734(44.0)	3.428(87.1)	1.83	4.03
35	0.21	3.4	3300(23)	3800(27)	4000	1.773(45.0)	3.507(89.1)	1.86	4.09
04	0.25	4.1	3300(23)	3800(27)		1.813(46.0)	3.586(91.1)	1.90	4.18
05	0.31	5.1	3300(23)	3800(27)		1.872(47.5)	3.704(94.1)	1.95	4.29
06	0.37	6.1	3300(23)	3800(27)	(*12500)	1.931(49.0)	3.822(97.1)	2.00	4.40
07	0.45	7.4	3100(22)	3500(25)		2.009(51.0)	3.980(101.1)	2.06	4.53

*More than 2500 qualified per applications.

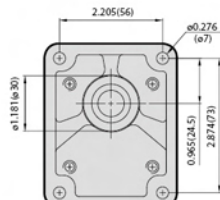
PORTS

Code	From "01" to "06"	MODEL "07"
	INLET & OUTLET	INLET & OUTLET
U	UNF#8 3/4"-16	UNF# 10 7/8"-14
P	PT 1/2"	PT 3/4"
N	NPT 1/2"	NPT 3/4"
B	BSPF 1/2"	BSPF 3/4"

MOUNTING FLANGES

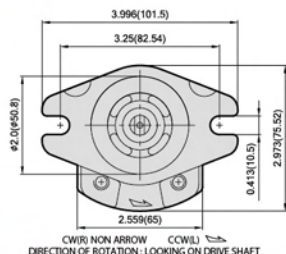
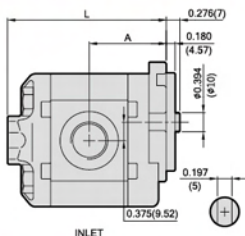
1G Series-Code:G
1M Series-Code:M

Code:C



Code:E

OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example

1**P****M****1****U****□**

SERIES

TYPE

FLANGE

SHAFT

PORT

DISPL.

ROTATION

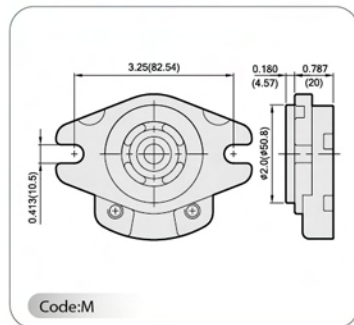
If you need pump with displ. 0.19 c.i.r and rotation is cw, the model number is: **1PM1U03R**

PERFORMANCE DATA

MODEL	DISPLACEMENT		PRESSURE psi(MPa)		RPM RANGE	DIMENSIONS inch (mm)		WEIGHT	
	c.i.r	cm ³ /r	CONTINUOUS	MAX.		A	L	Kg	LBS
05	0.05	0.8	3000(21)	3600(25)	600 4000	1.476(37.5)	3.050(77.5)	0.76	1.67
01	0.06	1.1	3000(21)	3600(25)		1.496(38.0)	3.090(78.5)	0.77	1.69
13	0.08	1.3	3000(21)	3600(25)		1.516(38.5)	3.129(79.5)	0.78	1.72
16	0.10	1.6	3000(21)	3600(25)		1.535(39.0)	3.169(80.5)	0.79	1.74
02	0.13	2.1	3000(21)	3600(25)		1.575(40.0)	3.247(82.5)	0.82	1.80
26	0.16	2.6	3000(21)	3600(25)		1.614(41.0)	3.326(84.5)	0.84	1.85
03	0.19	3.2	3000(21)	3600(25)	600 2500	1.654(42.0)	3.405(86.5)	0.87	1.91
37	0.22	3.7	3000(21)	3600(25)		1.693(43.0)	3.483(88.5)	0.89	1.96
04	0.25	4.2	2550(18)	3000(21)		1.732(44.0)	3.562(90.5)	0.91	2.00
05	0.29	4.8	2550(18)	3000(21)		1.772(45.0)	3.641(92.5)	0.95	2.09
06	0.35	5.8	1980(14)	2300(16)		1.850(47.0)	3.798(96.5)	1.00	2.20
07	0.48	7.9	1980(14)	2300(16)		2.008(51.0)	4.113(104.5)	1.08	2.38
09	0.54	8.8	1980(14)	2300(16)		2.087(53.0)	4.271(108.5)	1.13	2.50

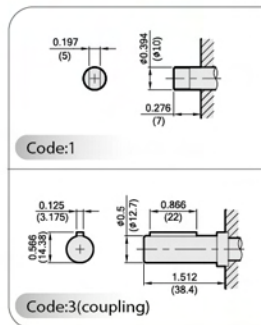
*More than 2500 qualified per applications.

MOUNTING FLANGES



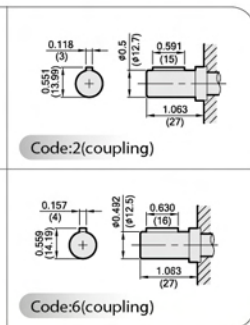
Code:M

DRIVE SHAFTS



Code:1

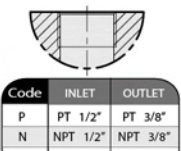
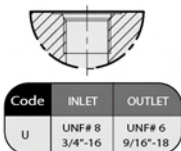
Code:3(coupling)

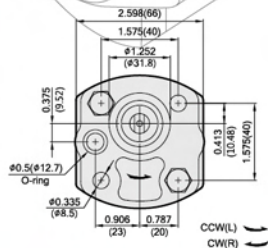
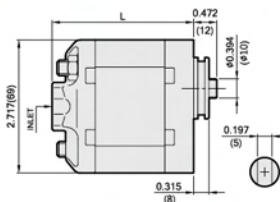


Code:2(coupling)

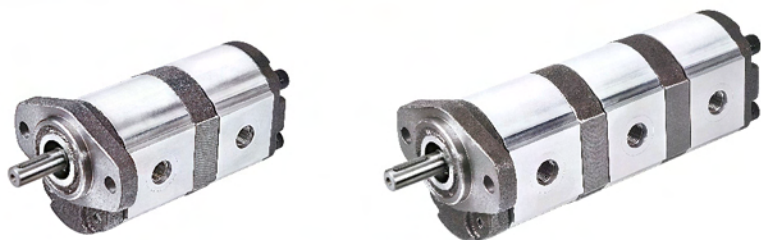
Code:6(coupling)

PORTS





09

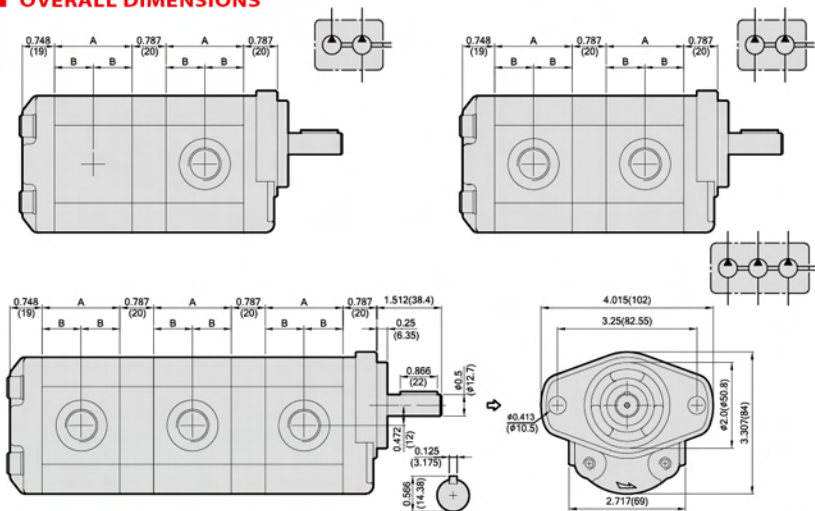


ORDERING EXAMPLE

1	□	G	2	B	U	□	□	□	R
SERIES	TYPE	MOUNTING FLANGE	DRIVE SHAFT	INLET/OUTLET CODE	PORT	DISPLACEMENT			R: CW L: CCW
	D: Double Pumps T: Multiple Pumps			A: Common Inlet B: Separate Inlet	(Double Pump only)				

If you need multiple pumps with front pump displ. 0.37 c.i.r. · center pump 0.25 c.i.r. · rear pump 0.12 c.i.r. and rotation is cw · the model number is : **1TG2BU060402R**

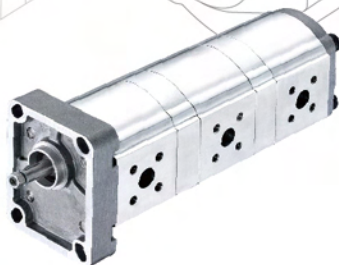
OVERALL DIMENSIONS



* Any requirement for mounting flange / drive shaft / in & out ports, please refer to 1G series specifications

CW(R) NON ARROW CCW(L) ↓
DIRECTION OF ROTATION : LOOKING ON DRIVE SHAFT

MODEL	01	02	27	35	04	05	06	07	09	11
c.i.r	0.08	0.12	0.16	0.21	0.25	0.31	0.37	0.45	0.55	0.67
cm ³ /r	1.3	2.0	2.7	3.4	4.1	5.1	6.1	7.4	9.1	11.0
A	1.732(44)	1.811(46)	1.890(48)	1.969(50)	2.047(52)	2.165(55)	2.283(58)	2.441(62)	2.638(67)	2.874(73)
B	0.866(22)	0.906(23)	0.945(24)	0.984(25)	1.024(26)	1.083(27.5)	1.142(29)	1.220(31)	1.319(33.5)	1.437(36.5)



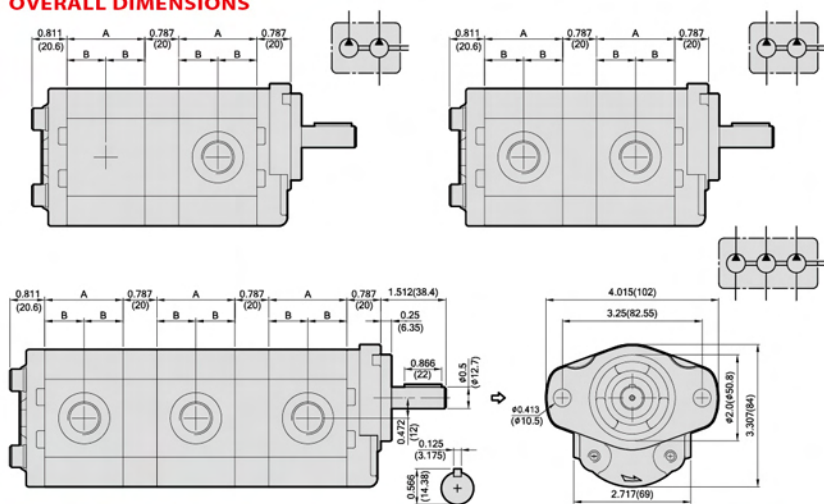
ORDERING EXAMPLE

1	□	G	2	B	U	□	□	□	R
SERIES	TYPE	MOUNTING FLANGE	DRIVE SHAFT	INLET/OUTLET CODE	PORT	DISPLACEMENT			R: CW L: CCW
	D: Double Pumps T: Multiple Pumps			A: Common Inlet B: Separate Inlet			(Double Pump only)		

If you need double pumps with front pump displ. 0.37 c.i.r. \ rear pump 0.25 c.i.r and rotation is cw \ the model number is

: **1DG2BU0604R**

OVERALL DIMENSIONS



*Any requirement for mounting flange / drive shaft / in & out ports, please refer to 1A series specifications

CW(R) NON ARROW CCW(L) DIRECTION OF ROTATION : LOOKING ON DRIVE SHAFT

MODEL	01	02	27	35	04	05	06	07	09	11
c.i.r	0.08	0.12	0.16	0.21	0.25	0.31	0.37	0.45	0.55	0.67
cm ³ /r	1.3	2.0	2.7	3.4	4.1	5.1	6.1	7.4	9.1	11.0
A	1.732(44)	1.811(46)	1.890(48)	1.969(50)	2.047(52)	2.165(55)	2.283(58)	2.441(62)	2.638(67)	2.874(73)
B	0.866(22)	0.906(23)	0.945(24)	0.984(25)	1.024(26)	1.083(27.5)	1.142(29)	1.220(31)	1.319(33.5)	1.437(36.5)



ORDERING EXAMPLE

For Example

1

SERIES

V

TYPE

G

FLANGE

2

SHAFT

U

PORT

DISPL.

ROTATION

0

If you need pump with displ. 0.31 c.i.r and rotation is cw, the model number is: **1VG2U05R**

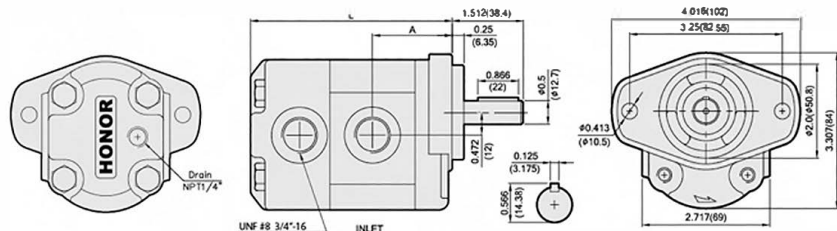
PERFORMANCE DATA

MODEL	DISPLACEMENT		PRESSURE		RPM RANGE	DIMENSIONS		WEIGHT
	c.i.r	cm ³ /r	CONTINUOUS	MAX.		A	L	
01	0.08	1.3	3000(21)	3600(25)	600	1.655(42.0)	4.216(107.1)	2.47 5.43
02	0.12	2.0	3000(21)	3600(25)		1.694(43.0)	4.294(109.1)	2.51 5.52
27	0.16	2.7	3000(21)	3600(25)		1.734(44.0)	4.373(111.1)	2.55 5.61
35	0.21	3.4	3000(21)	3600(25)		1.773(45.0)	4.452(113.1)	2.58 5.68
04	0.25	4.1	3000(21)	3600(25)	4000	1.813(46.0)	4.531(115.1)	2.62 5.76
05	0.31	5.1	3000(21)	3600(25)		1.872(47.5)	4.649(118.1)	2.67 5.87
06	0.37	6.1	3000(21)	3600(25)		1.931(49.0)	4.767(121.1)	2.72 5.98
07	0.45	7.4	2850(20)	3300(23)		2.009(51.0)	4.924(125.1)	2.78 6.12
09	0.55	9.1	2550(18)	2850(20)	600	2.108(53.5)	5.121(130.1)	2.86 6.29
11	0.67	11.0	2300(16)	2550(18)		2.226(56.5)	5.358(136.1)	2.95 6.49
13	0.82	13.5	2300(16)	2550(18)		2.364(60.0)	5.634(143.1)	3.06 6.73
					(*)2500			

*More than 2500 qualified per applications.

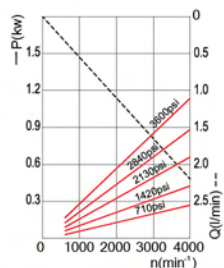
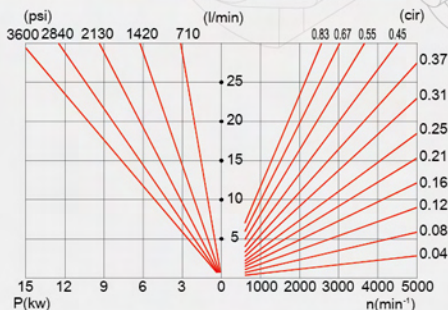
PORTS				
Code	From "01" to "06"		From "07" to "13"	
	INLET	OUTLET	INLET	OUTLET
U	UNF#8 3/4"-16	UNF#6 9/16"-18	UNF#10 7/8"-14	UNF#8 3/4"-16
P	PT 1/2"	PT 3/8"	PT 3/4"	PT 1/2"
N	NPT 1/2"	NPT 3/8"	NPT 3/4"	NPT 1/2"
B	BSPF 1/2"	BSPF 3/8"	BSPF 3/4"	BSPF 1/2"

OVERALL DIMENSIONS

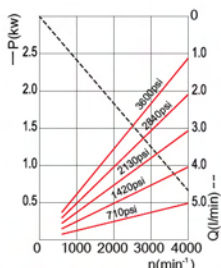


※ Any requirement for mounting flange / drive shaft, please refer to 1G series specifications

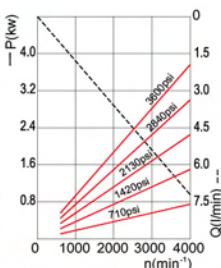
CW(0) NON ARROW C.W(L) DIRECTION OF ROTATION: LOOKING ON DRIVE SHAFT



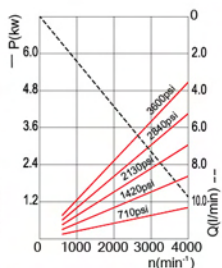
MODEL:05



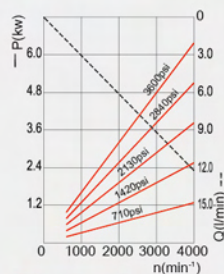
MODEL:01



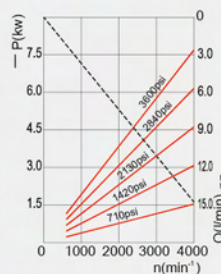
MODEL:02



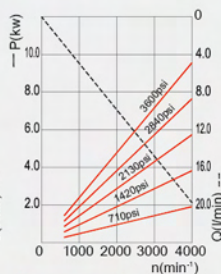
MODEL:27



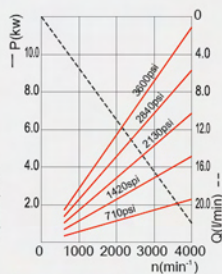
MODEL:35



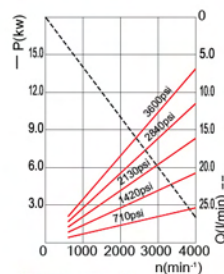
MODEL:04



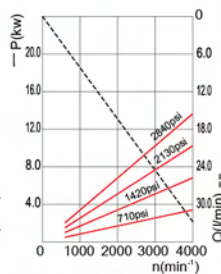
MODEL:05



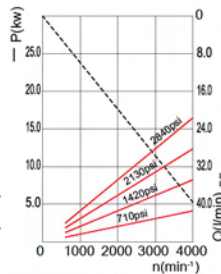
MODEL:06



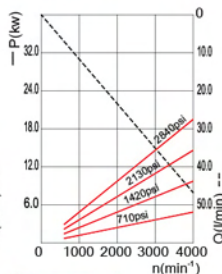
MODEL:07



MODEL:09

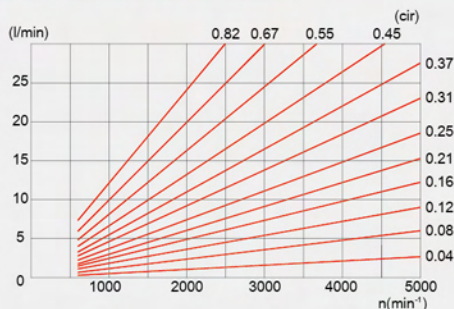


MODEL:11



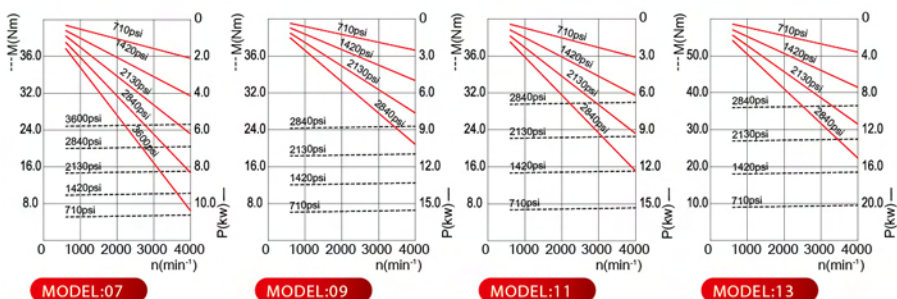
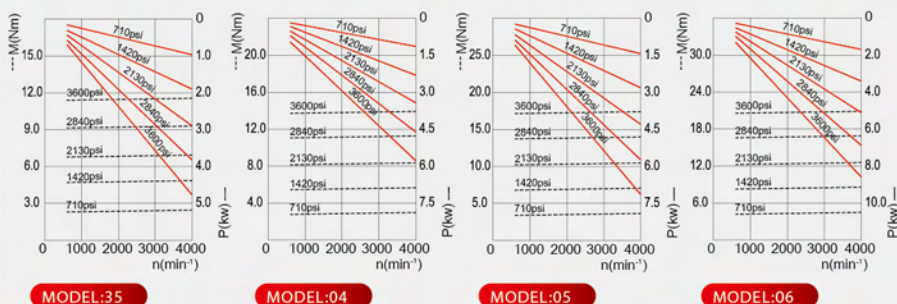
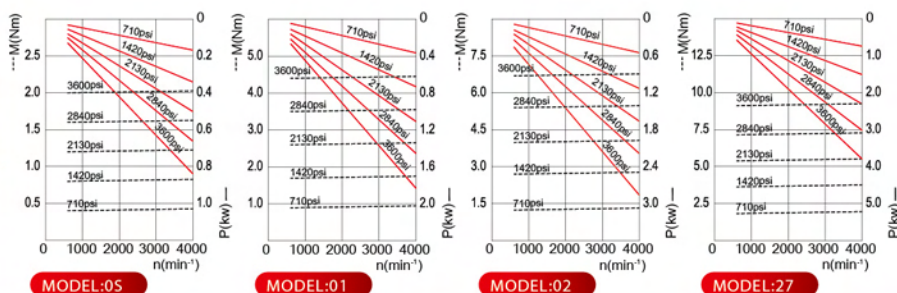
MODEL:13

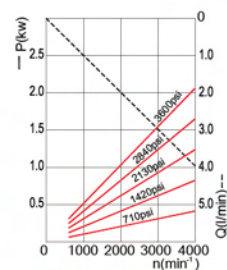
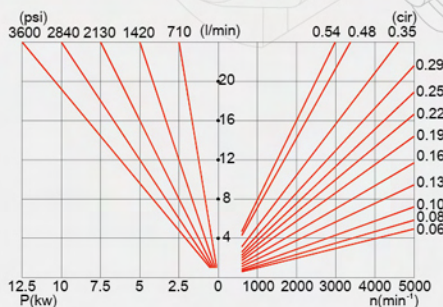
1M SERIES PERFORMANCE CURVE



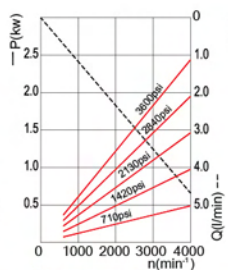
GROUP 1

1M SERIES PERFORMANCE CURVE

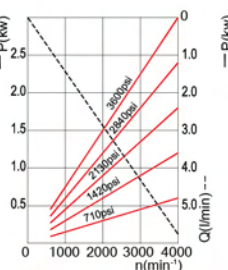




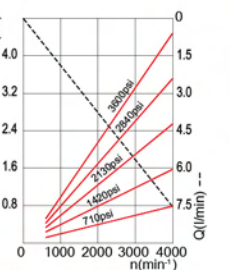
MODEL:01



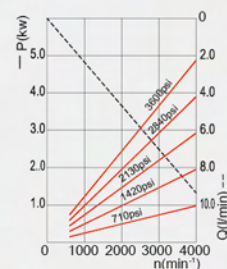
MODEL:13



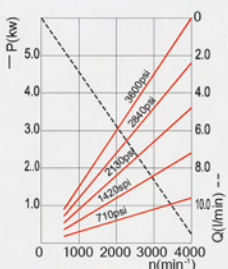
MODEL:16



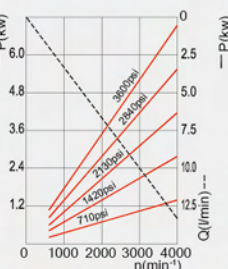
MODEL:02



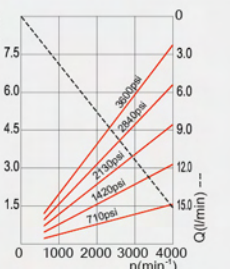
MODEL:26



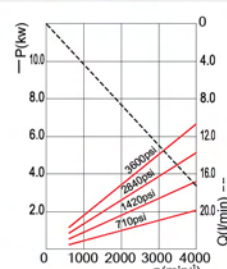
MODEL:03



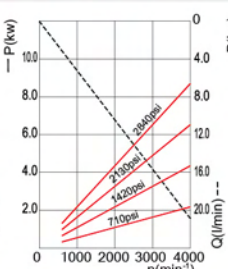
MODEL:37



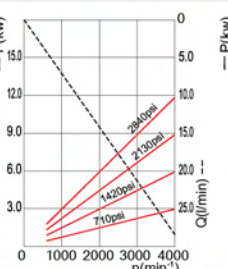
MODEL:04



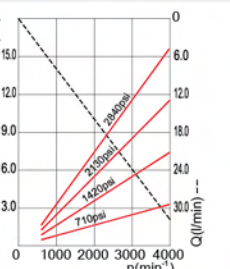
MODEL:05



MODEL:06

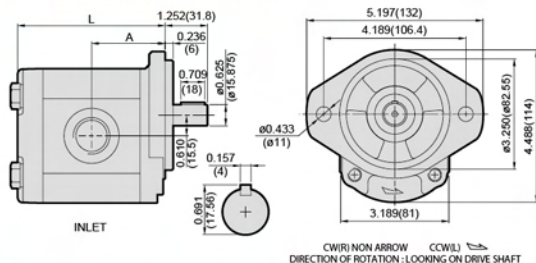


MODEL:07



MODEL:09

OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example

2

SERIES

G

TYPE

G

FLANGE

1

SHAFT

U

PORT

□

DISPL.

□

ROTATION

If you need pump with displ.0.98 c.i.r and rotation is cw, the model number is: **2GG1U16R**

PERFORMANCE DATA

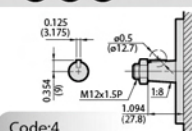
MODEL	DISPLACEMENT		PRESSURE psi(MPa)		RPM RANGE	DIMENSIONS inch (mm)		WEIGHT	
	c.i.r	cm ³ /r	CONTINUOUS	MAX.		A	L	Kg	LBS
04	0.24	4.0	3500(25)	4200(30)	600	1.658(42.1)	3.433(87.2)	3.23	7.11
05	0.30	5.0	3500(25)	4200(30)		1.687(42.9)	3.493(88.7)	3.27	7.19
06	0.38	6.2	3500(25)	4200(30)		1.717(43.6)	3.552(90.2)	3.32	7.30
07	0.43	7.0	3500(25)	4200(30)		1.746(44.4)	3.611(91.7)	3.36	7.39
08	0.52	8.4	3500(25)	4200(30)	4000	1.796(45.6)	3.709(94.2)	3.41	7.50
09	0.58	9.5	3500(25)	4200(30)		1.825(46.4)	3.768(95.7)	3.45	7.59
11	0.69	11.3	3500(25)	4200(30)		1.884(47.9)	3.886(98.7)	3.53	7.77
14	0.85	14.0	3500(25)	4200(30)		1.963(49.9)	4.044(102.7)	3.64	8.01
16	0.98	16.0	3500(25)	4200(30)	600	2.002(51.4)	4.162(105.7)	3.74	8.23
18	1.10	18.0	3500(25)	4200(30)		2.081(52.9)	4.280(108.7)	3.80	8.36
20	1.20	19.5	3300(23)	3800(27)		2.160(54.9)	4.437(112.7)	3.89	8.56
22	1.31	21.5	3000(21)	3500(25)		2.180(55.4)	4.477(113.7)	3.96	8.71
24	1.44	23.5	2550(18)	3100(22)	(*)2500	2.258(57.4)	4.634(117.7)	4.01	8.82
26	1.53	25.0	2550(18)	3100(22)		2.317(58.9)	4.752(120.7)	4.10	9.02
28	1.71	28.0	2300(16)	2700(19)		2.396(60.9)	4.910(124.7)	4.19	9.22
30	1.84	30.0	2100(15)	2550(18)		2.475(62.9)	5.067(128.7)	4.30	9.46
33	2.02	33.0	2000(14)	2300(16)		2.554(64.9)	5.225(132.7)	4.41	9.70

*More than 2500 qualified per applications.

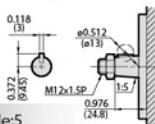
DRIVE SHAFTS

DRIVE SHAFTS

SUITABLE FOR C E R FLANGE

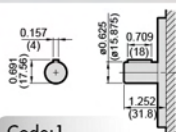


Code:4

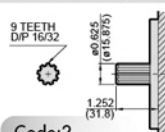


Code:5

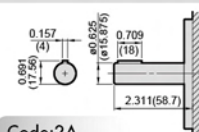
SUITABLE FOR G FLANGE



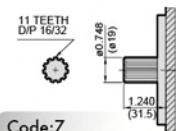
Code:1



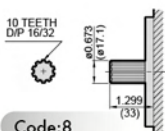
Code:2



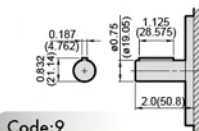
Code:2A



Code:7

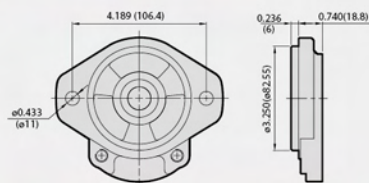


Code:8

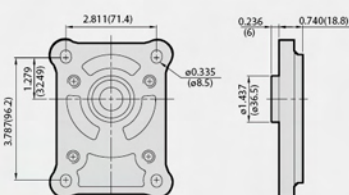


Code:9

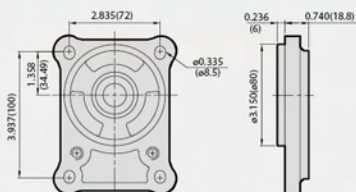
■ MOUNTING FLANGES



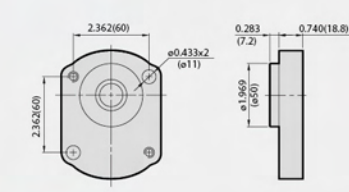
2G & 2D Series-Code:G
2M Series-Code:M



Code:C



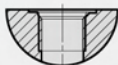
Code:E



Code:R

■ PORTS

UNF



Code	From "04" to "22"		From "24" to "33"	
	INLET	OUTLET	INLET	OUTLET
U	UNF# 12 1-1/16"-12	UNF# 10 7/8"-14	UNF# 16 1-5/16"-12	UNF# 12 1-1/16"-12

PT 、NPT 、BSPF



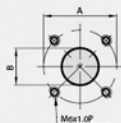
Code	From "04" to "22"		From "24" to "33"	
	INLET	OUTLET	INLET	OUTLET
P	PT 3/4"	PT 1/2"	PT 1"	PT 3/4"
N	NPT 3/4"	NPT 1/2"	NPT 1"	NPT 3/4"
B	BSPF 3/4"	BSPF 1/2"	BSPF 1"	BSPF 3/4"

REAR PORT

FOR "2G SERIES" ONLY

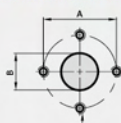


FLANGE (SQUARE)



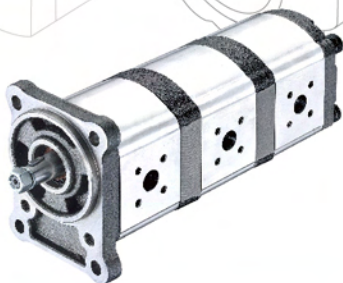
Code	From "04" to "33"			
	INLET		OUTLET	
F	A	B	A	B
	ø1.575 (ø40)	ø0.787 (ø20)	ø1.380 (ø35)	ø0.591 (ø15)

FLANGE (DIAMOND)



Code	From "04" to "33"			
	INLET		OUTLET	
E	A	B	A	B
	ø1.575 (ø40)	ø0.748 (ø19)	ø1.181 (ø30)	ø0.512 (ø13)

Code	From "04" to "33"	
	INLET	OUTLET
Z	UNF# 16 1-5/16"-12	UNF# 12 1-1/16"-12
Y	PT 1"	PT 3/4"



ORDERING EXAMPLE

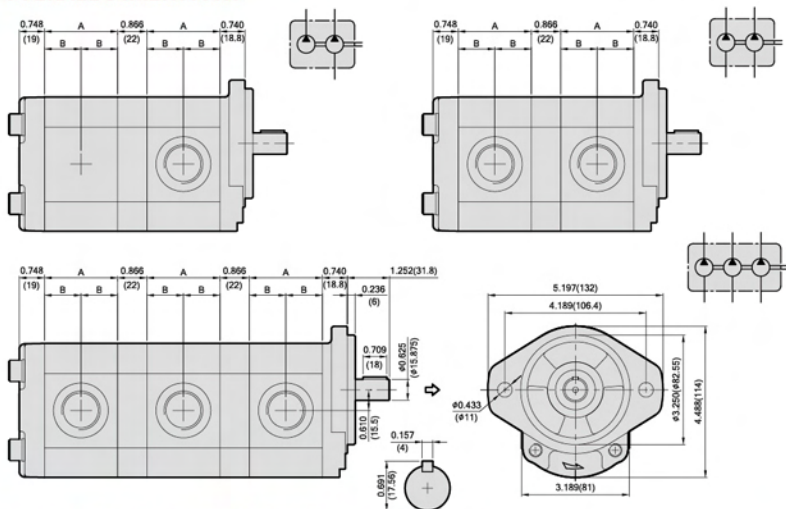
2	□	G	1	B	U	□	□	□	R
SERIES	TYPE	MOUNTING FLANGE	DRIVE SHAFT	INLET/OUTLET CODE	PORT	DISPLACEMENT			R: CW L: CCW

D: Double Pumps
T: Multiple Pumps

A: Common Inlet (Double Pump only)
B: Separate Inlet

If you need double pumps with front pump displ. 0.98 c.i.r ~ rear pump 0.58 c.i.r and rotation is cw ~ the model number is : **2DG1BU1609R**

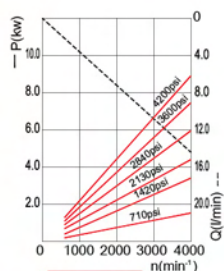
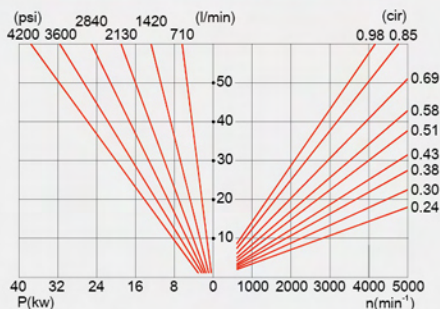
OVERALL DIMENSIONS



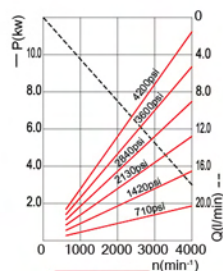
* Any requirement for mounting flange / drive shaft / in & out ports, please refer to 2G series specifications

CW(R) NON ARROW CCW(L)
 DIRECTION OF ROTATION : LOOKING ON DRIVE SHAFT

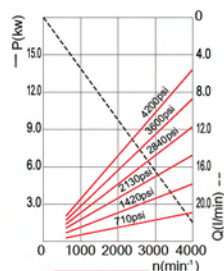
MODEL	05	06	07	08	09	11	14	16	18	20	22
c.i.r	0.30	0.38	0.43	0.52	0.58	0.69	0.85	0.98	1.10	1.20	1.31
cm ³ /r	5.0	6.2	7.0	8.4	9.5	11.3	14.0	16.0	18.0	19.5	21.5
A	1.890(48)	1.949(49.5)	2.008(51)	2.106(53.5)	2.165(55)	2.283(58)	2.441(62)	2.559(65)	2.677(68)	2.835(72)	2.874(73)
B	0.945(24)	0.976(24.8)	1.004(25.5)	1.055(26.8)	1.083(27.5)	1.142(29)	1.220(31)	1.280(32.5)	1.339(34)	1.417(36)	1.437(36.5)



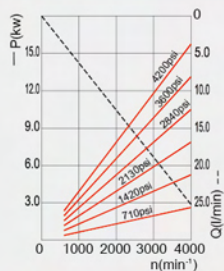
MODEL:04



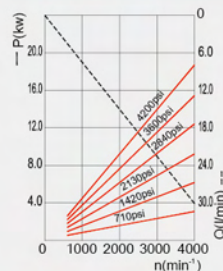
MODEL:05



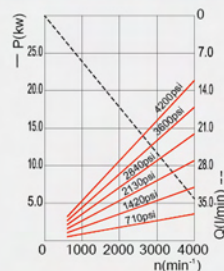
MODEL:06



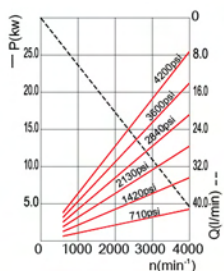
MODEL:07



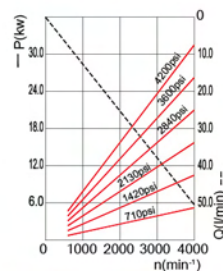
MODEL:08



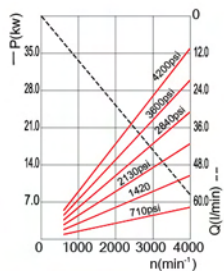
MODEL:09



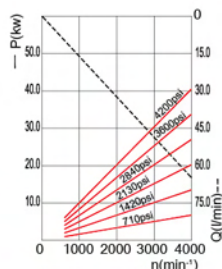
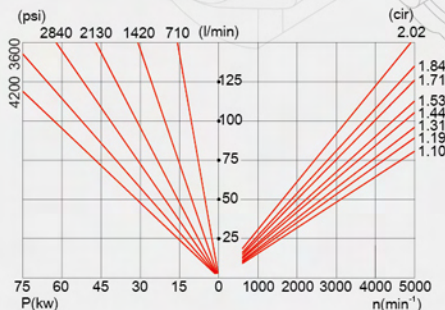
MODEL:11



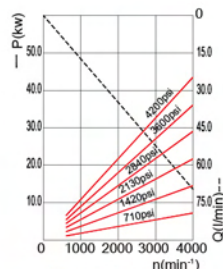
MODEL:14



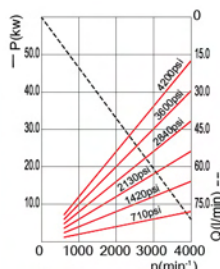
MODEL:16



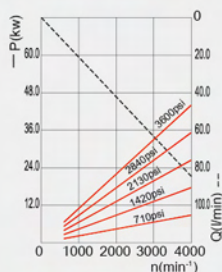
MODEL:18



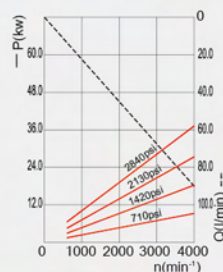
MODEL:20



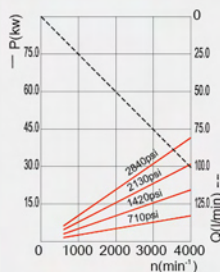
MODEL:22



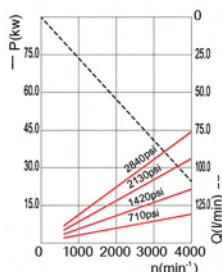
MODEL:24



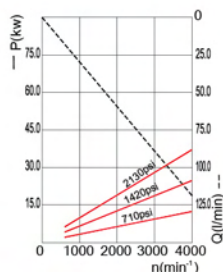
MODEL:26



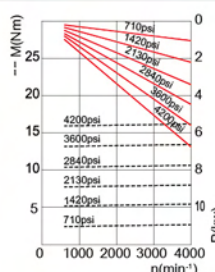
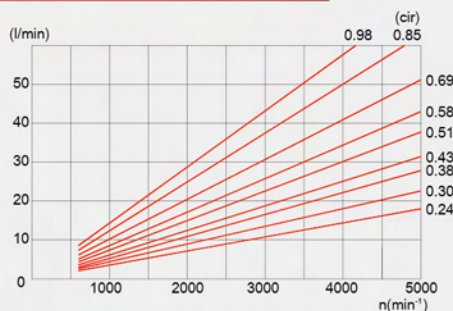
MODEL:28



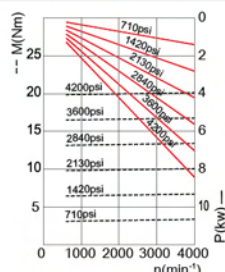
MODEL:30



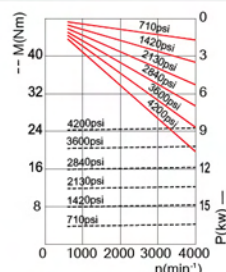
MODEL:33



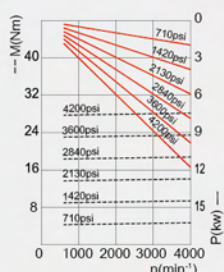
MODEL:04



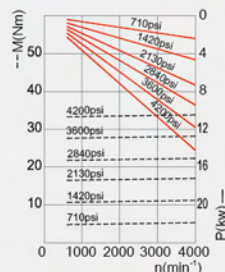
MODEL:05



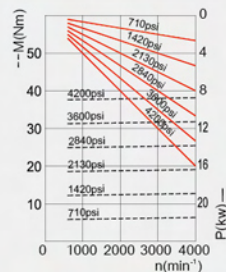
MODEL:06



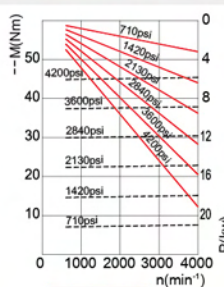
MODEL:07



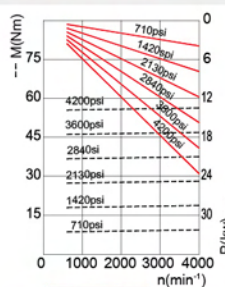
MODEL:08



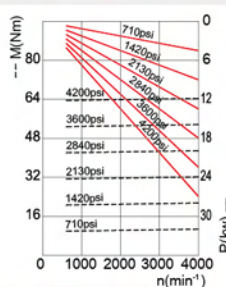
MODEL:09



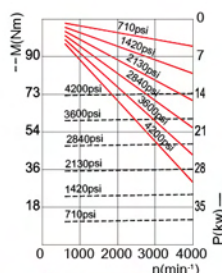
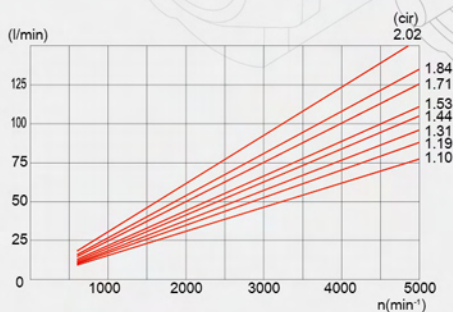
MODEL:11



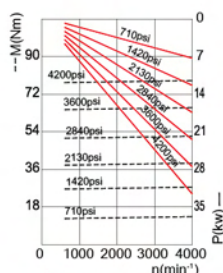
MODEL:14



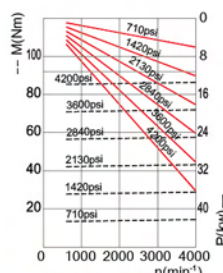
MODEL:16



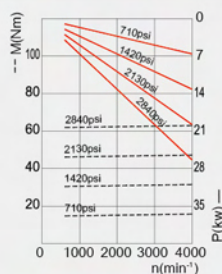
MODEL:18



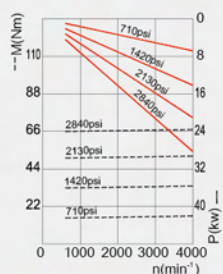
MODEL:20



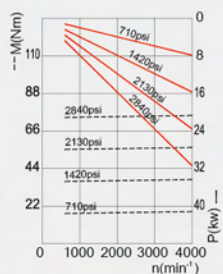
MODEL:22



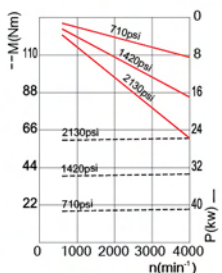
MODEL:24



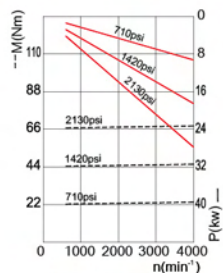
MODEL:26



MODEL:28



MODEL:30

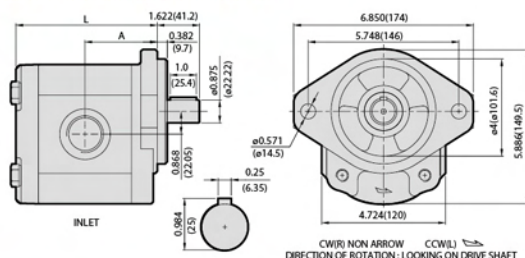


MODEL:33

3G SERIES GEAR PUMPS



OVERALL DIMENSIONS



ORDERING EXAMPLE

For Example

3

SERIES

G

TYPE

B

FLANGE

6

SHAFT

U1

PORT

□□

DISPL.

□

ROTATION

If you need pump with displ.2.01 c.i.r and rotation is cw, the model number is : **3GB6U133R**

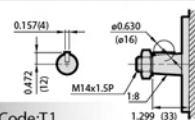
PERFORMANCE DATA

MODEL	DISPLACEMENT		PRESSURE psi(MPa)		RPM RANGE	DIMENSIONS inch(mm) SUITABLE "B", "C", "E" MOUNTING FLANGES		WEIGHT	
	c.i.r	cm ³ /r	CONTINUOUS	MAX.		A	L	Kg	LBs
18	1.10	18.0	3500(25)	3800(27)	3000	2.539(64.5)	4.961(126)	8.4	18.5
20	1.22	20.0	3500(25)	3800(27)	3000	2.559(65.0)	5.000(127)	8.5	18.7
23	1.40	23.0	3500(25)	3800(27)	3000	2.579(65.5)	5.039(128)	8.6	18.9
25	1.52	25.0	3500(25)	3800(27)	3000	2.618(66.5)	5.118(130)	8.7	19.1
28	1.70	28.0	3500(25)	3800(27)	3000	2.657(67.5)	5.197(132)	8.9	19.6
33	2.01	33.0	3500(25)	3800(27)	3000	2.736(69.5)	5.354(136)	9.1	20.0
38	2.31	38.0	3500(25)	3800(27)	3000	2.815(71.5)	5.512(140)	9.3	20.5
44	2.68	44.0	3100(22)	3400(24)	2500	2.894(73.5)	5.669(144)	9.5	20.9
52	3.17	52.0	2800(20)	3100(22)	2500	2.992(76.0)	5.866(149)	9.8	21.6
60	3.66	60.0	2600(18)	2800(20)	2500	3.110(79.0)	6.102(155)	10.0	22.0
70	4.27	70.0	2300(16)	2600(18)	2500	3.248(82.5)	6.378(162)	10.4	22.9
80	4.88	80.0	2100(15)	2400(17)	2300	3.346(85.0)	6.575(167)	10.7	23.5
90	5.49	90.0	2000(14)	2300(16)	2000	3.465(88.0)	6.811(173)	11.1	24.4

DRIVE SHAFTS

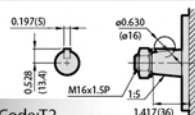
DRIVE SHAFTS

SUITABLE FOR C FLANGE



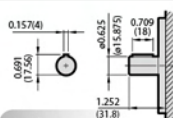
Code:T1

SUITABLE FOR E FLANGE

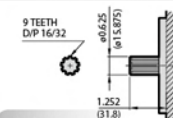


Code:T2

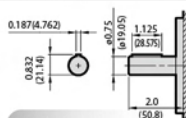
SUITABLE FOR A FLANGE



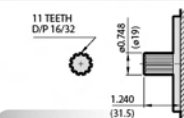
Code:1



Code:2

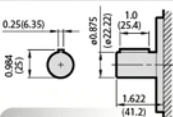


Code:4

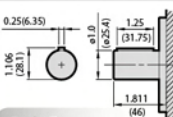


Code:5

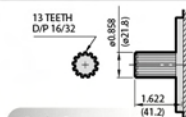
SUITABLE FOR B FLANGE



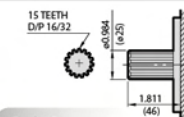
Code:6



Code:7

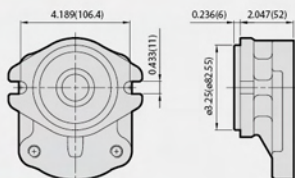


Code:8

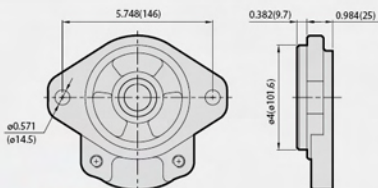


Code:9

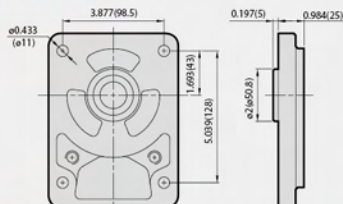
■ MOUNTING FLANGES



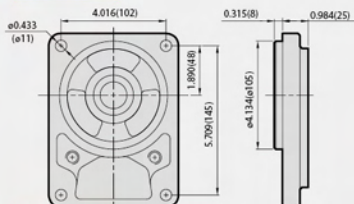
Code:A



Code:B



Code:C



Code:E

■ PORTS

UNF



Code	INLET	OUTLET
U1	1-5/16-12 UNF# 16	1-1/16-12 UNF# 12
U2	1-5/8-12 UNF# 20	1-1/16-12 UNF# 12
U3	1-7/8-12 UNF# 24	1-5/16-12 UNF# 16

PT



Code	INLET	OUTLET
P1	PT 1"	PT 3/4"
P2	PT 1-1/4"	PT 3/4"
P3	PT 1-1/2"	PT 1"

NPT



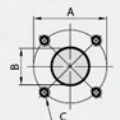
Code	INLET	OUTLET
N1	NPT 1"	NPT 3/4"
N2	NPT 1-1/4"	NPT 3/4"
N3	NPT 1-1/2"	NPT 1"

BSPF



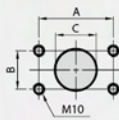
Code	INLET	OUTLET
B1	BSPF 1"	BSPF 3/4"
B2	BSPF 1-1/4"	BSPF 3/4"
B3	BSPF 1-1/2"	BSPF 1"

FLANGE (SQUARE)



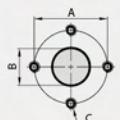
Code	PORT	A	B	C
F1	INLET	ø1.575(ø40)	ø0.787(ø20)	M6
	OUTLET	ø1.378(ø35)	ø0.591(ø15)	M6
F2	INLET	ø2.165(ø55)	ø1.063(ø27)	M8
	OUTLET	ø2.165(ø55)	ø0.748(ø19)	M8

FLANGE (RECTANGLE)



Code	PORT	A X B	C
F3	INLET	2.063(52.4)x1.031(26.2)	ø0.984(ø25)
	OUTLET	1.874(47.6)x0.874(22.2)	ø0.748(ø19)
F4	INLET	2.307(58.6)x1.189(30.2)	ø1.260(ø32)
	OUTLET	2.063(52.4)x1.031(26.2)	ø0.984(ø25)

FLANGE (DIAMOND)

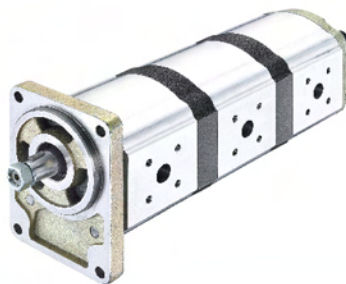


Code	PORT	A	B	C
F5	INLET	ø1.575(ø40)	ø0.748(ø19)	M8
	OUTLET	ø1.181(ø30)	ø0.512(ø13)	M6
F6	INLET	ø2.008(ø51)	ø1.063(ø27)	M10
	OUTLET	ø1.575(ø40)	ø0.748(ø19)	M8

REAR PORT



Code	INLET	OUTLET
ZU1	1-5/16-12 UNF# 16	1-1/16-12 UNF# 12
ZU2	1-5/8-12 UNF# 20	1-1/16-12 UNF# 12
ZU3	1-5/8-12 UNF# 20	1-5/16-12 UNF# 16



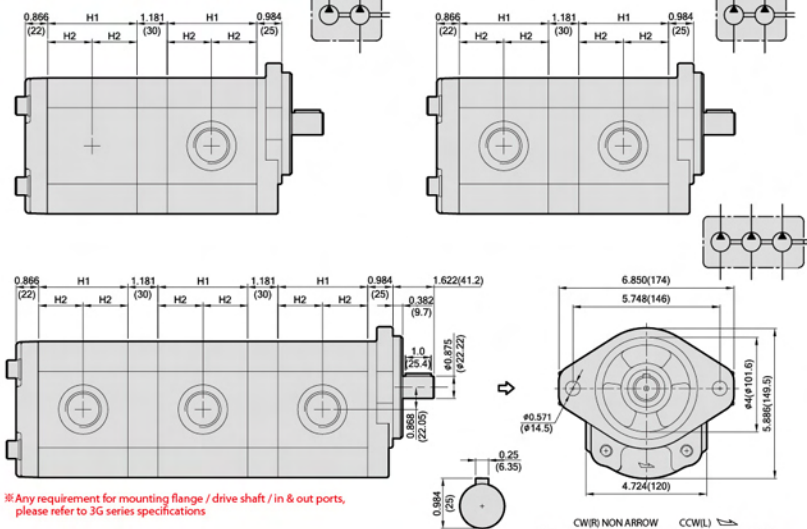
ORDERING EXAMPLE

3	□	B	6	B	U1U1U1	□	□	□	R
SERIES	TYPE	MOUNTING FLANGE	DRIVE SHAFT	INLET/OUTLET CODE	PORT (Front/Center/Rear)	DISPLACEMENT			R: CW L: CCW
	D: Double Pumps Multiple Pumps				A: Common Inlet (Double Pump only) B: Separate Inlet				

If you need double pumps with front pump displ. 2.31 c.i.r 、 rear pump 1.70 c.i.r and rotation is cw , the model number is :

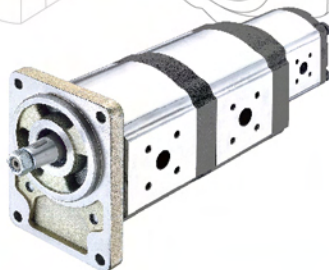
3DB6BU2U13828R

■ OVERALL DIMENSIONS



■ GROUP 3 PUMP

MODEL	18	20	23	25	28	33	38	44	52
<i>c.l.r</i>	1.10	1.22	1.40	1.52	1.70	2.01	2.31	2.68	3.17
<i>cm³/r</i>	18.0	20.0	23.0	25.0	28.0	33.0	38.0	44.0	52.0
H1	3.110(79)	3.150(80)	3.189(81)	3.268(83)	3.346(85)	3.504(89)	3.661(93)	3.819(97)	4.016(102)
H2	1.555(39.5)	1.575(40)	1.594(40.5)	1.634(41.5)	1.732(42.5)	1.752(44.5)	1.831(46.5)	1.909(48.5)	2.008(51)



ORDERING EXAMPLE

32

□

B

6

B

U1U1

□

□

□

R

SERIES

TYPE

MOUNTING
FLANGEDRIVE
SHAFTINLET/OUTLET
CODEPORT
(Front/Center)

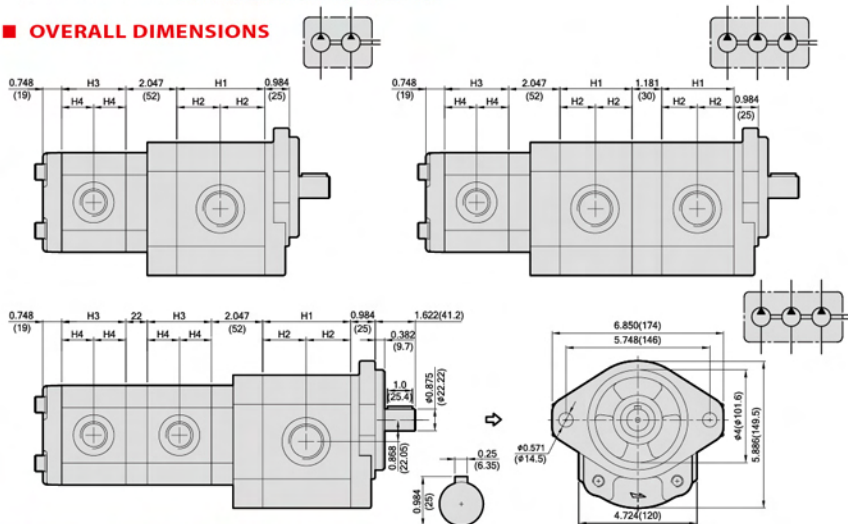
DISPLACEMENT

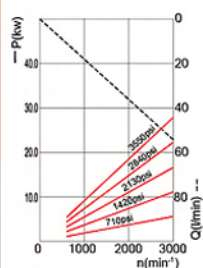
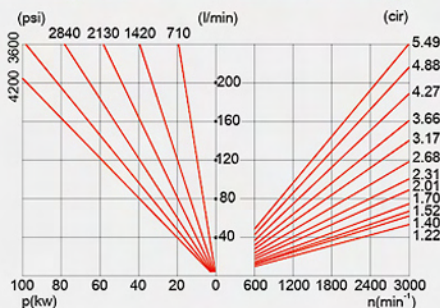
R: CW
L: CCWD: Double Pumps
T: Multiple Pumps

B: Separate Inlet

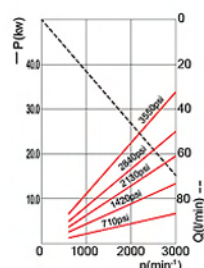
If you need multiple pumps with front pump displ. 2.31 c.i.r \ center pump 1.70 c.i.r \ rear pump 0.85 c.i.r and rotation is cw
 \ the model number is : **32TB6BU2U1382814R**

■ OVERALL DIMENSIONS

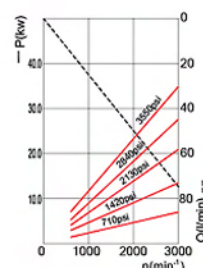




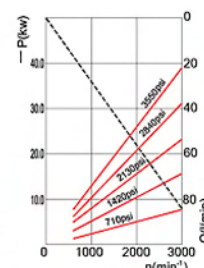
MODEL:20



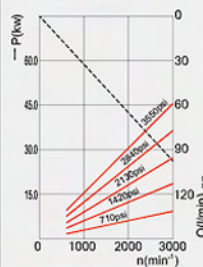
MODEL:23



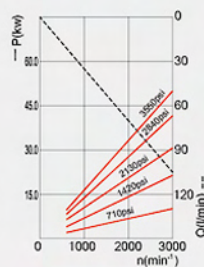
MODEL:25



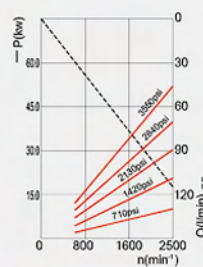
MODEL:28



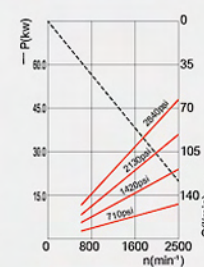
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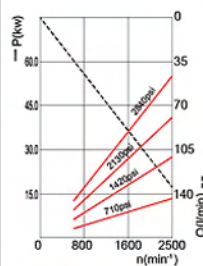
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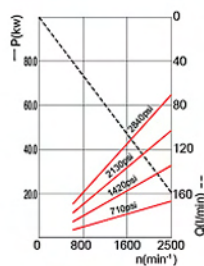
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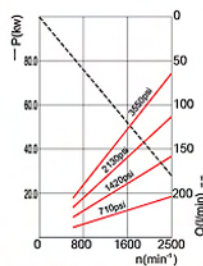
MODEL:52



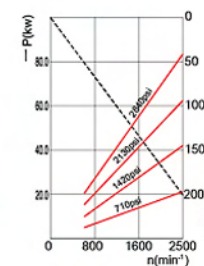
MODEL:60



MODEL:70



MODEL:80



MODEL:90

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Warranty Statement

HONOR Gear Pumps Corp. products are warranted for 12 months from date of shipment from HONOR Taiwan or our authorized sales agents worldwide, to be free from defects in material and workmanship under correct use, normal operating conditions, and proper application.

HONOR's obligation under this warranty is limited to repair or exchange, at HONOR's option, of any HONOR product or part which proves to be defective as provided herein.

Warranty consideration will only be extended upon return of the product to HONOR or Honor's authorized sales agents, for inspection, and then only if authorization to return has been given prior to the return.

Warranty will not extend to product damaged by accident, abuse, misuse, or misapplication, nor to goods altered or repaired by other than HONOR.

