



CE ISO9001  
ETB IATF16949

**VIBO** | 威博液压  
VIBO Hydraulics

## HYDRAULIC GEAR PUMP INTERNAL GEAR PUMP



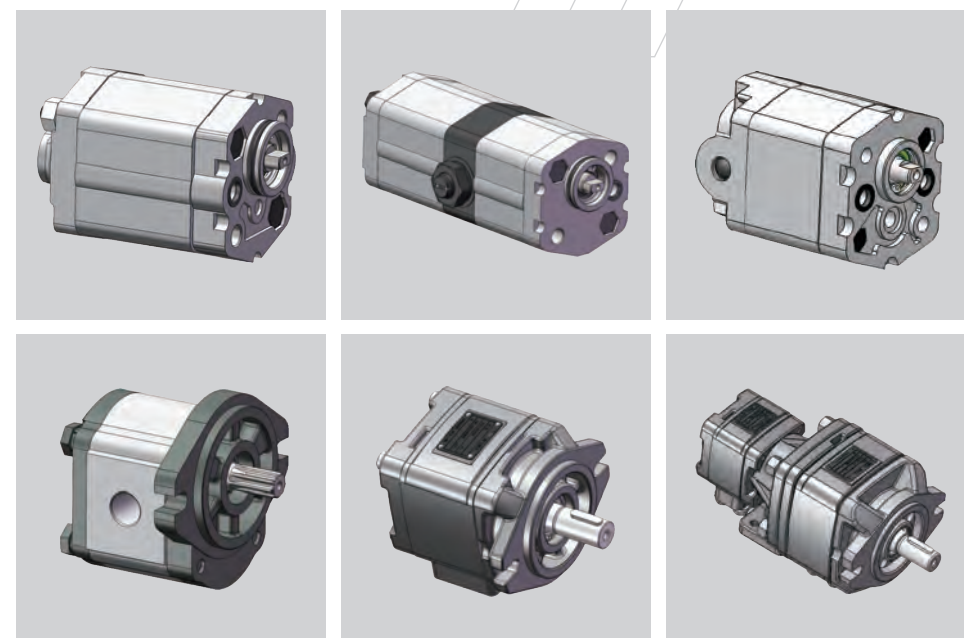
Official Account



International Network

**VIBO**  
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VIBO Hydraulics

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Victor-From the elite team

Belief-The customers in mind

Innovation-Advance tech improvement

Obligation-Stimulate to move forward



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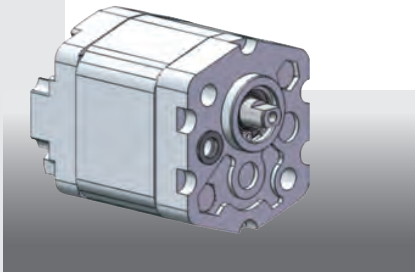
## CBU Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using floating shaft sleeve for axial automatic compensation. The CBU gear pump has the characteristics of small size, light weight, simple structure, reliable work, convenient installation, use and maintenance. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

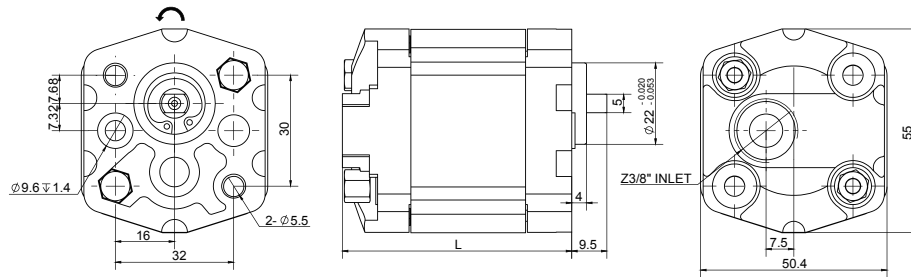
### Code Instruction

**CBU - F 1 \*\*\*-L B L-\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW L:CCW
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: thread Z3/8 L1:thread G3/8
- ⑧ Oil position                          rear inlet front outlet



### Outline Dimensions



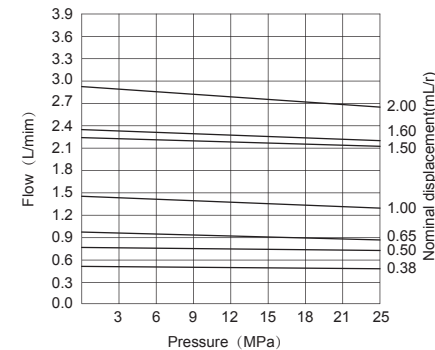
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		volumetric efficiency (≥%)	L (mm)
		Rating	Maximum pressure	Minimum	Maximum		
CBU-F1019	0.19	20	25	1000	7000	90	60.5
CBU-F1025	0.25	20	25	1000	7000	90	61
CBU-F1038	0.38	20	25	1000	7000	91	62
CBU-F1050	0.5	20	25	1000	7000	91	63
CBU-F1065	0.65	20	25	1000	7000	92	64
CBU-F1075	0.75	20	25	1000	7000	92	65
CBU-F1088	0.88	20	25	1000	7000	92	66
CBU-F1100	1.0	20	25	850	6000	92	67
CBU-F1125	1.25	20	25	700	5000	92	69
CBU-F1150	1.5	20	25	600	4000	92	71
CBU-F1160	1.6	20	25	600	4000	92	71.8
CBU-F1175	1.75	20	25	600	4000	92	73
CBU-F1200	2.0	20	25	500	3000	92	75

### Characteristic curve

Flow pressure characteristics:

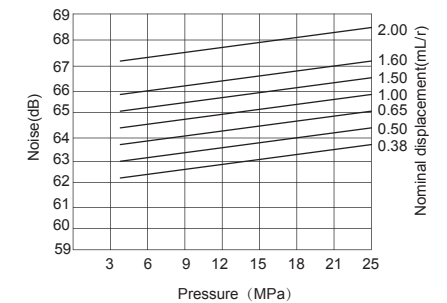
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



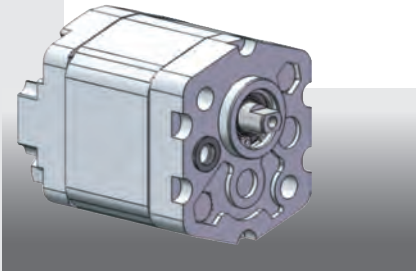
## CBUL Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using floating shaft sleeve for axial automatic compensation. Due to the use of helical gear structure, the noise of the pump is greatly reduced, which is the upgrade of CBU straight pump. With the characteristics of small volume, light weight, low noise, reliable work, convenient installation, use, maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

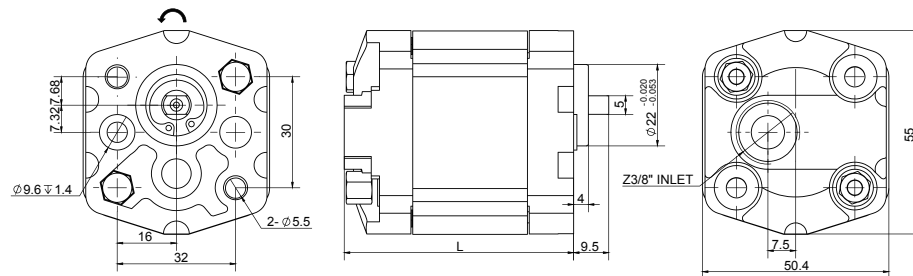
### Code Instruction

**CBUL - F 1 \*\*\*-R B L-\***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation R: CW L: CCW
- ⑥ Axial extension form B: oblate key
- ⑦ Oil port form L: thread Z3/8 L1: thread G3/8
- ⑧ Oil port A rear inlet, front outlet  
B side inlet, front outlet



### Outline Dimensions



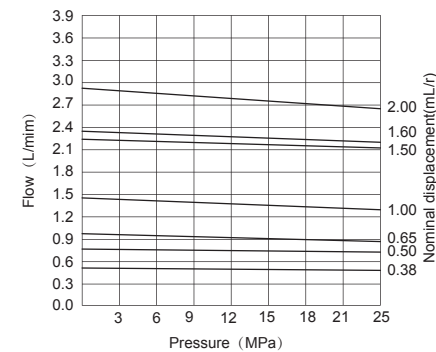
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBUL-F1038	0.38	20	25	1000	7000	91	62
CBUL-F1050	0.5	20	25	1000	7000	91	63
CBUL-F1065	0.65	20	25	1000	7000	92	64
CBUL-F1075	0.75	20	25	1000	7000	92	65
CBUL-F1088	0.88	20	25	1000	7000	92	66
CBUL-F1100	1.0	20	25	850	6000	92	67
CBUL-F1125	1.25	20	25	700	5000	92	69
CBUL-F1150	1.5	20	25	600	4000	92	71
CBUL-F1160	1.6	20	25	600	4000	92	71.8
CBUL-F1175	1.75	20	25	600	4000	92	73
CBUL-F1200	2.0	20	25	500	3000	92	75

### Characteristic curve

Flow pressure characteristics:

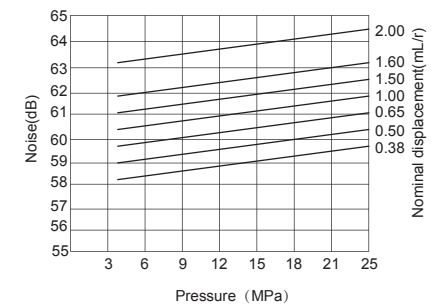
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55℃



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55℃



## CBUS Series

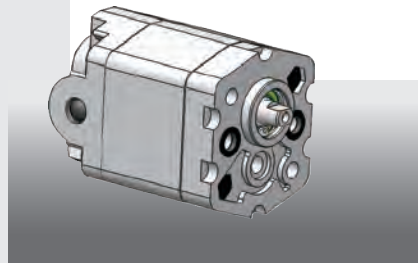
The bi-directional gear pump is mainly composed of the pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using the floating shaft sleeve for the axial automatic compensation. There are two check valves inside the pump, which can achieve positive and negative operation. It has the characteristics of small size, simple structure and reliable work, which are mainly used in various small bi-directional hydraulic systems.

### Code Instruction

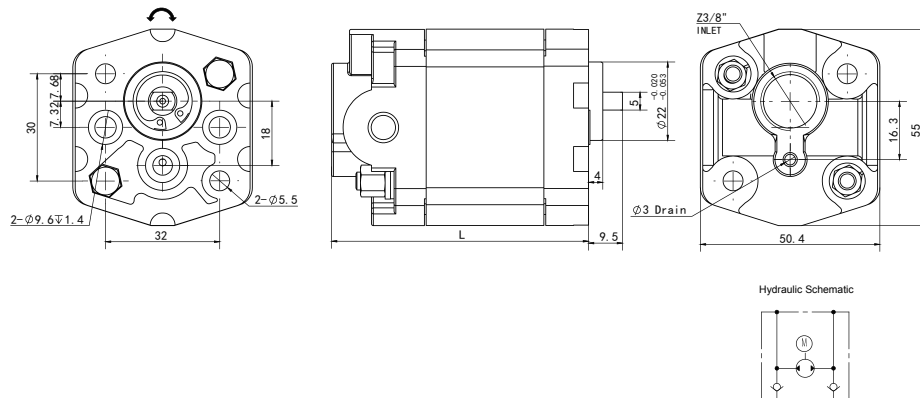
**CBUS** - **F** **1** **\*\*\*** - **S** **B** **L** - **\***

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                S: bi-directional
- ⑥ Axial extension form                B: oblate key
- ⑦ Oil port form                         L: thread Z3/8 L1: thread G3/8
- ⑧ Oil port position                      rear inlet front outlet



### Outline Dimensions



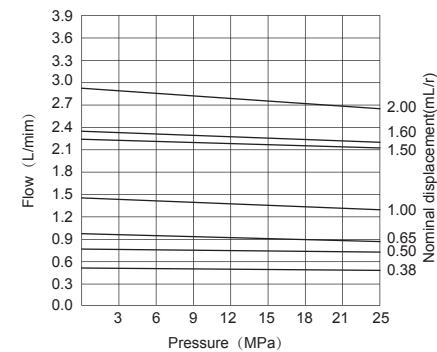
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBUS-F1038	0.38	20	25	1000	7000	90	70.0
CBUS-F1050	0.5	20	25	1000	7000	90	71.0
CBUS-F1065	0.65	20	25	1000	7000	91	72.0
CBUS-F1075	0.75	20	25	1000	7000	91	73.0
CBUS-F1088	0.88	20	25	1000	7000	91	74.0
CBUS-F1100	1.0	20	25	850	6000	92	75.0
CBUS-F1125	1.25	20	25	700	5000	92	77.0
CBUS-F1150	1.5	20	25	600	4000	92	79.0
CBUS-F1160	1.6	20	25	600	4000	92	79.8
CBUS-F1175	1.75	20	25	600	4000	92	81.0
CBUS-F1200	2.0	20	25	500	3000	92	83.0

### Characteristic curve

Flow pressure characteristics:

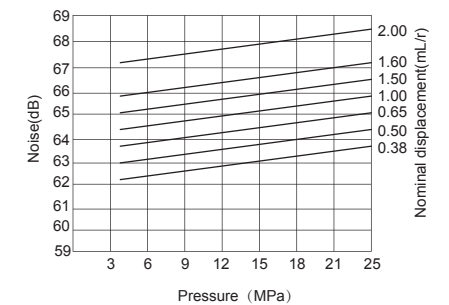
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55 C



## CBUS1 Series

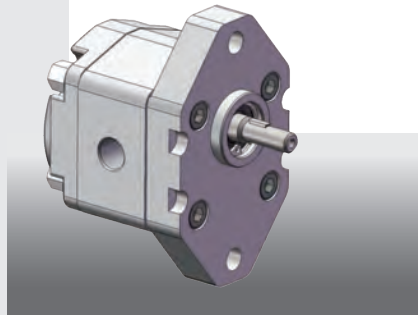
The bi-directional gear pump is mainly composed of the pump body, shaft sleeve, gear, diamond front cover, rear cover and other main parts, using the floating shaft sleeve for the axial automatic compensation. There are two check valves inside the pump, which can achieve positive and negative operation. Small in size, simple in structure and reliable working are mainly used in various small bidirectional hydraulic systems.

### Code Instruction

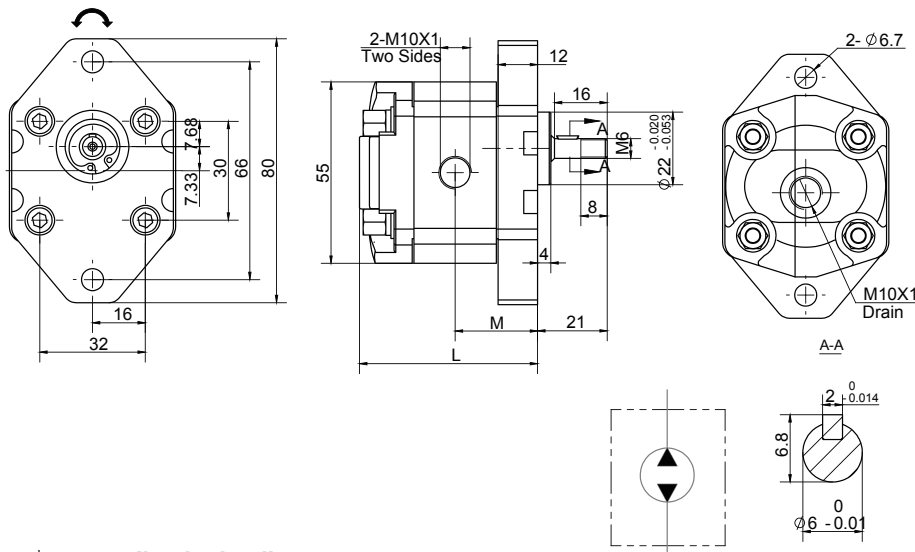
**CBUS1 - F 1 \*\* - S Y L - \***

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Production code
- ② Pressure rating                      F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation            R: CW   L: CCW   S: bi-directional
- ⑥ Axial extension form                Y: woodruff key
- ⑦ Oil port form                          L: M10X1
- ⑧ Oil port position                      side inlet side outlet



### Outline Dimensions



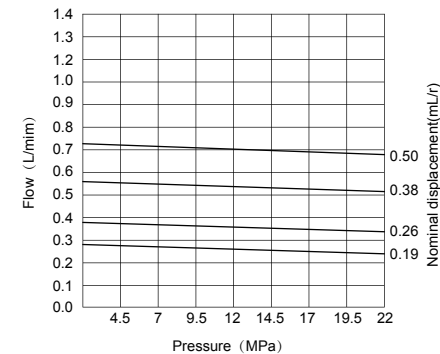
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBUS1-FA1019	0.19	20	22	1000	7000	90	54
CBUS1-FA1026	0.26	20	22	1000	7000	90	55.1
CBUS1-FA1038	0.38	20	22	1000	7000	90	57.0
CBUS1-FA1050	0.5	20	22	1000	7000	90	58.9

### Characteristic curve

Flow pressure characteristics:

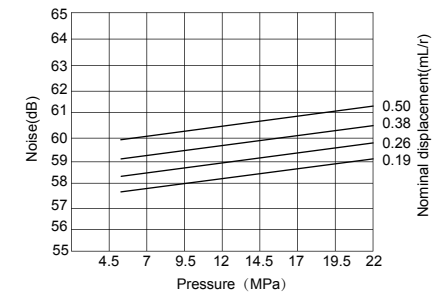
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



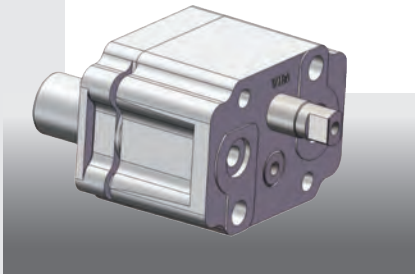
## CBP Series

The bi-directional gear pump is mainly composed of pump body, gear, back cover and other main parts, using fixed gap structure. There are two check valves inside the pump to work in both directions. It has the characteristics of small size, simple structure and reliable work, which are mainly used in various small bi-directional hydraulic systems.

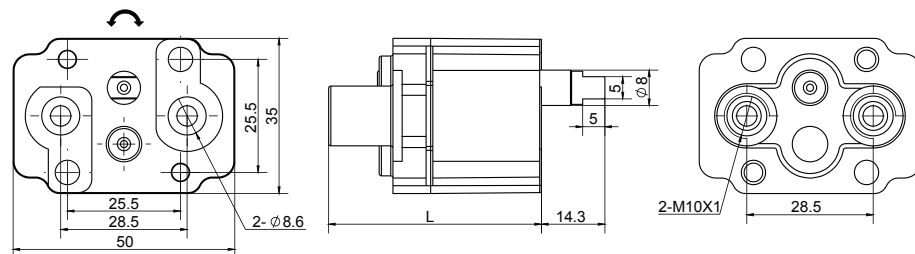
### Code Instruction

**CBP - F 1 \*\* - S B L - \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

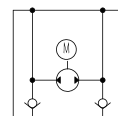
- ① Product code
- ② Pressure rating                      D: 10MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                S: bi-directional
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: M10X1
- ⑧ Oil port position                      rear inlet front outlet



### Outline Dimensions



Hydraulic Schematic



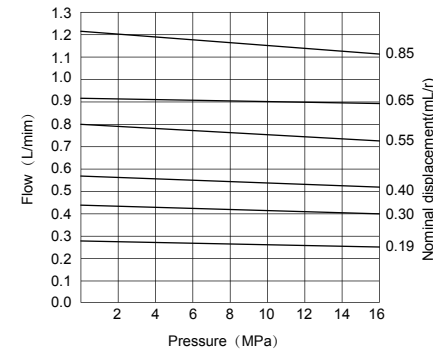
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum pressure	Minimum	Maximum		
CBP-F1019	0.19	10	16	600	6000	89	38.1
CBP-F1030	0.30	10	16	600	6000	89	39.8
CBP-F1040	0.40	10	16	600	6000	89	41.3
CBP-F1055	0.55	10	16	600	6000	90	43.6
CBP-F1065	0.65	10	16	600	6000	90	45.2
CBP-F1085	0.85	10	16	600	6000	90	48

### Characteristic curve

Flow pressure characteristics:

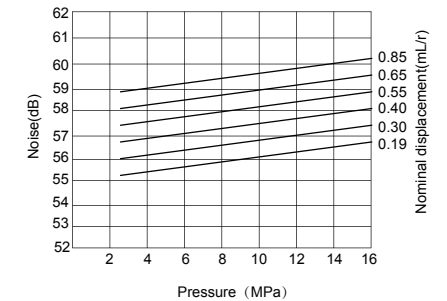
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=40°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=40°C



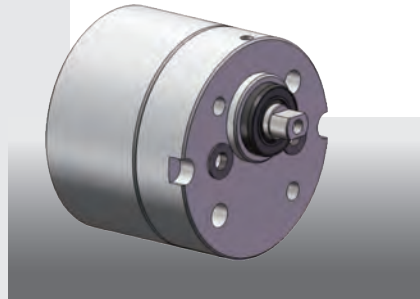
## CBW Series

The bi-directional gear pump is mainly composed of the pump body, the floating side plate, the gear, the rear cover and other main parts, using the floating shaft sleeve for the axial automatic compensation. There are two check valves inside the pump, which can achieve positive and negative operation. Small in size, simple in structure and reliable working are mainly used in various small bidirectional hydraulic systems.

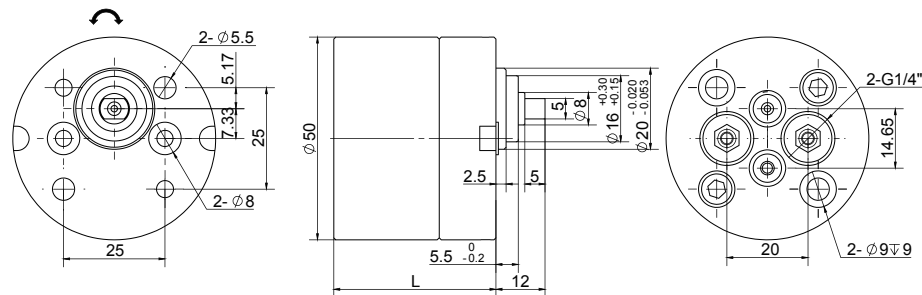
### Code Instruction

**CBW - F 1 \*\* - S B L - \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

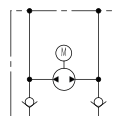
- ① Product code
- ② Pressure rating                      F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation            S: bi-directional
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: G1/4
- ⑧ Oil port position                    rear inlet front outlet



### Outline Dimensions



Hydraulic Schematic



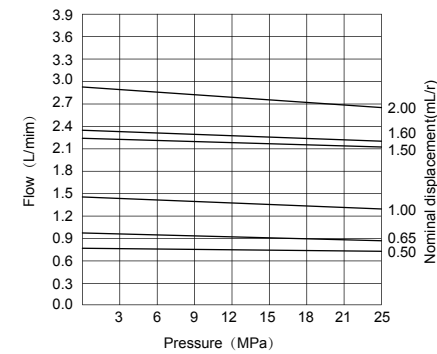
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBW-F1050	0.5	20	25	1000	7000	90	39
CBW-F1065	0.65	20	25	1000	7000	91	40
CBW-F1075	0.75	20	25	1000	7000	91	41
CBW-F1088	0.88	20	25	1000	7000	91	42
CBW-F1100	1.0	20	25	850	6000	92	43
CBW-F1125	1.25	20	25	700	5000	92	45
CBW-F1150	1.5	20	25	600	4000	92	47
CBW-F1160	1.6	20	25	600	4000	92	47.8
CBW-F1175	1.75	20	25	600	4000	92	49
CBW-F1200	2.0	20	25	500	3000	92	51

### Characteristic curve

Flow pressure characteristics:

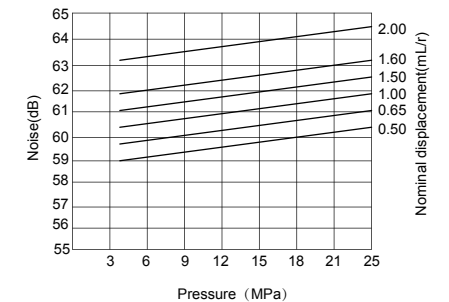
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



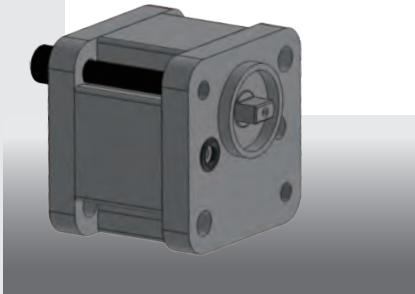
## CBY Series

CBY gear oil pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other main components, and adopts floating shaft sleeve for axial automatic compensation. It has the characteristics of small size, simple structure and reliable operation, and is mainly used in automobiles, construction machinery and various small hydraulic systems.

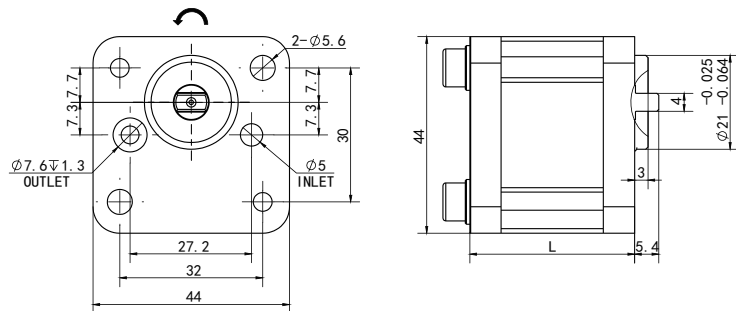
### Code Instruction

**CBY - E 1 \*\* - L B L - \***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      E: 16MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: bore diameter φ5
- ⑧ Oil port position                     front inlet front outlet



### Outline Dimensions



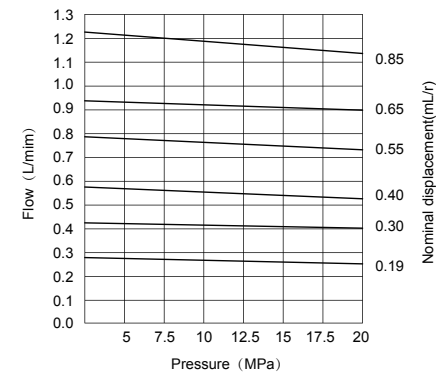
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBY-E1019	0.19	16	20	600	4000	90	33.8
CBY-E1030	0.30	16	20	600	4000	90	35.4
CBY-E1040	0.40	16	20	600	4000	91	36.9
CBY-E1055	0.55	16	20	600	4000	91	39.1
CBY-E1065	0.65	16	20	600	4000	91	40.6
CBY-E1085	0.85	16	20	600	4000	91	43.5

### Characteristic curve

Flow pressure characteristics:

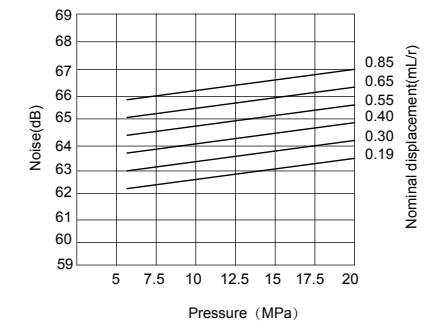
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



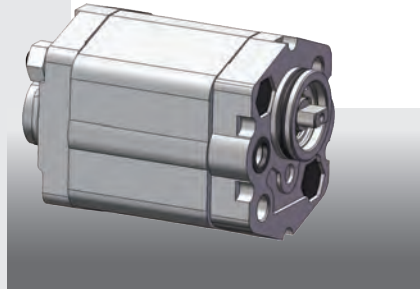
## CBK Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other parts, and the floating shaft sleeve is used for automatic axial compensation. With the characteristics of small volume, light weight, low noise, reliable work, convenient use and installation also maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

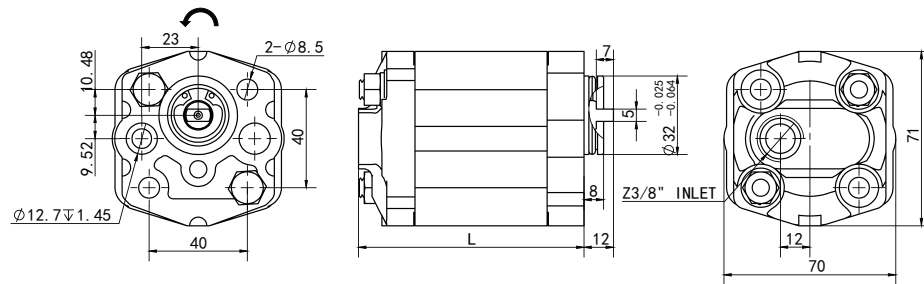
### Code Instruction

**CBK - F 1 \*\*\*-L B L-\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Production code
- ② Pressure rating                      F: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: thread Z3/8 L1: thread G3/8
- ⑧ Oil position                          rear inlet front outlet



### Outline Dimensions



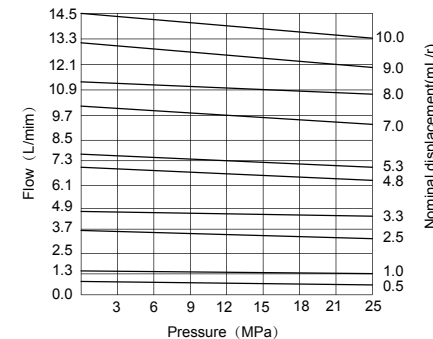
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBK-F1050	0.5	20	25	1000	6000	90	54
CBK-F1065	0.65	20	25	1000	6000	90	54.5
CBK-F1075	0.75	20	25	1000	6000	91	55
CBK-F1100	1.0	20	25	1000	6000	91	56
CBK-F1130	1.3	20	25	1000	6000	92	57
CBK-F1160	1.6	20	25	1000	6000	92	58
CBK-F1200	2.0	20	25	1000	6000	92	60
CBK-F1250	2.5	20	25	1000	6000	92	62
CBK-F1330	3.3	20	23	800	5000	92	64
CBK-F1370	3.7	20	23	800	4500	92	66
CBK-F1420	4.2	20	23	800	4000	93	68
CBK-F1480	4.8	19	21	800	3500	93	70
CBK-F1053	5.3	19	21	600	3500	93	72.4
CBK-F1058	5.8	19	21	600	3000	93	74
CBK-F1070	7.0	16	18	600	2500	93	78
CBK-F1080	8.0	16	18	600	2000	93	82
CBK-F1090	9.0	16	18	600	1500	93	86
CBK-F1110	10.0	16	18	600	1500	93	88.5

### Characteristic curve

Flow pressure characteristics:

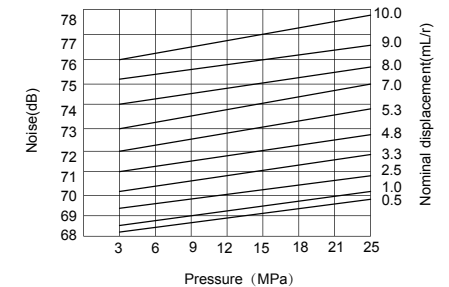
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



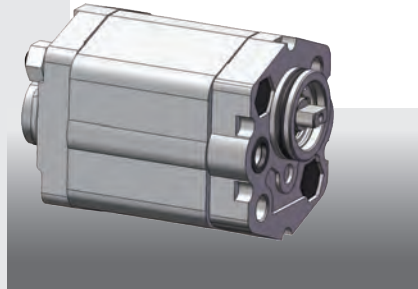
## CBKL Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other parts, and the floating shaft sleeve is used for automatic axial compensation. Due to the helical gear structure, the noise of the pump is greatly reduced, which is the upgrade of CBK straight pump products. With the characteristics of small volume, light weight, low noise, reliable work, convenient use and installation also maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

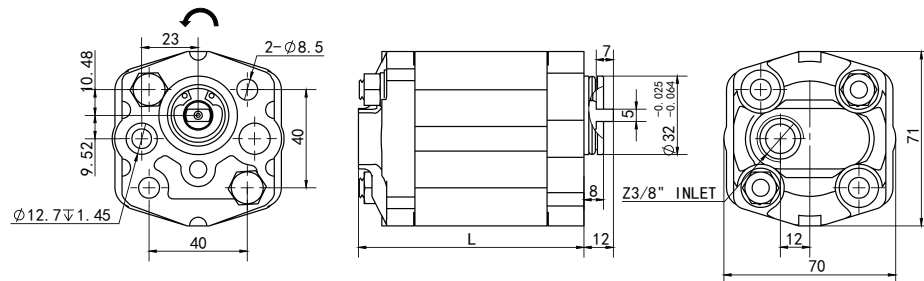
### Code Instruction

**CBKL - G 2 \*\*\*-L B L-\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Production code
- ② Pressure rating                   G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation           R: CW   L: CCW
- ⑥ Axial extension form           B: Oblate key
- ⑦ Oil port form                    L: thread Z3/8   L1: thread G3/8
- ⑧ Oil port position               rear inlet front outlet



### Outline Dimensions



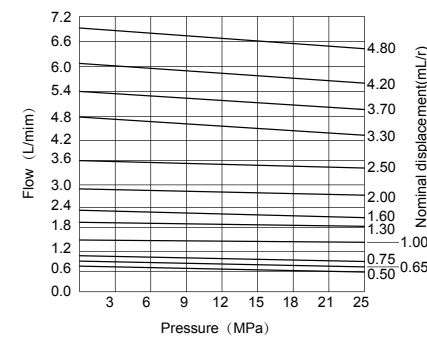
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		volumetric efficiency (≥%)	L (mm)
		Rating	Maximum pressure	Minimum	Maximum		
CBKL-G2050	0.5	20	25	1000	6000	90	78.4
CBKL-G2065	0.65	20	25	1000	6000	91	79.1
CBKL-G2075	0.75	20	25	1000	6000	91	79.6
CBKL-G2100	1.0	20	25	1000	6000	91	80.8
CBKL-G2130	1.3	20	25	1000	6000	92	82.2
CBKL-G2160	1.6	20	25	1000	6000	92	83.7
CBKL-G2200	2.0	20	25	1000	6000	92	85.6
CBKL-G2250	2.5	20	25	1000	6000	92	88
CBKL-G2330	3.3	20	25	800	5000	92	91.8
CBKL-G2370	3.7	20	25	800	4500	92	93.8
CBKL-G2420	4.2	20	25	800	4000	93	96.2
CBKL-G2480	4.8	20	25	800	3500	93	99

### Characteristic curve

Flow pressure characteristics:

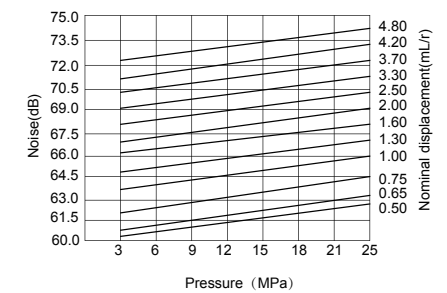
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



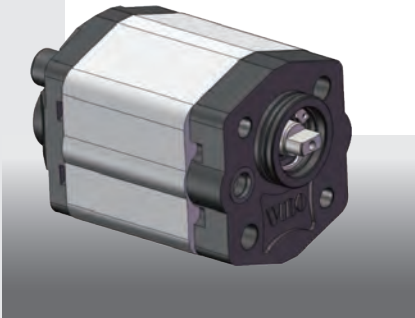
## CBKLN Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using cast iron pump cover and floating shaft sleeve for the automatic axial compensation. With the characteristics of small volume, light weight, low noise, reliable work, convenient installation, use, and maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

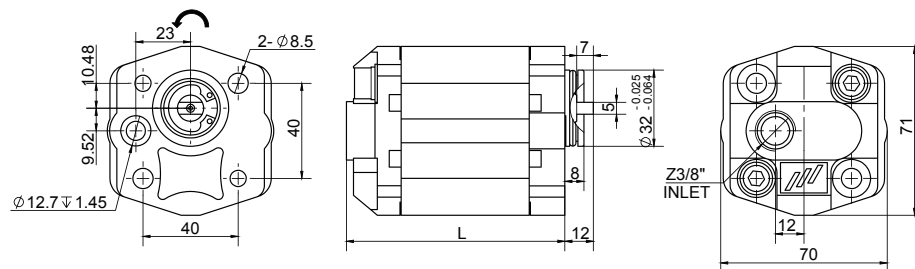
### Code Instruction

**CBKLN** - G 2 \*\* - L B L - \*  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                    G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation            R: CW L: CCW
- ⑥ Axial extension form            B: Oblate key
- ⑦ Oil port form                    L: thread Z3/8 L1: thread G3/8
- ⑧ Oil port position                rear inlet front outlet



### Outline Dimensions



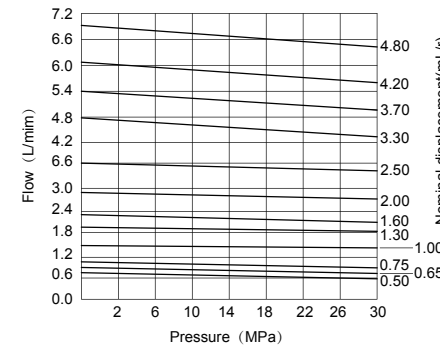
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBKLN-G2050	0.5	25	30	1000	6000	90	77.4
CBKLN-G2065	0.65	25	30	1000	6000	91	78.1
CBKLN-G2075	0.75	25	30	1000	6000	91	78.6
CBKLN-G2100	1.0	25	30	1000	6000	91	79.8
CBKLN-G2130	1.3	25	30	1000	6000	92	81.2
CBKLN-G2160	1.6	25	30	1000	6000	92	82.7
CBKLN-G2200	2.0	25	30	1000	6000	92	84.6
CBKLN-G2250	2.5	25	30	1000	6000	92	87.0
CBKLN-G2330	3.3	25	30	800	5000	92	90.8
CBKLN-G2370	3.7	23	28	800	4500	92	92.8
CBKLN-G2420	4.2	23	28	800	4000	93	95.2
CBKLN-G2480	4.8	23	28	800	3500	93	98.0

### Characteristic curve

Flow pressure characteristics:

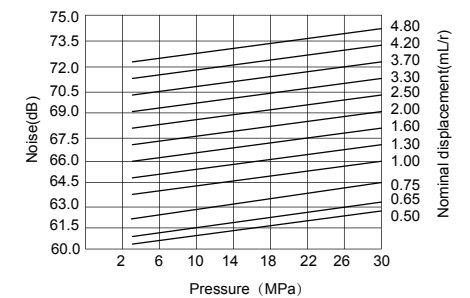
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



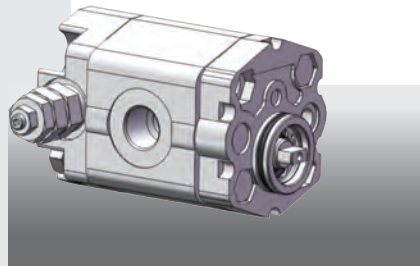
## CBKLY Series

Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover, overflow valve and other parts, and the floating shaft sleeve is used for automatic axial compensation. Due to the use of inclined gear structure, the noise of the pump is greatly reduced, which is the upgrade of CBK straight tooth pump product. With the characteristics of small volume, light weight, low noise, reliable work, convenient installation, use, maintenance and so on, the pump with the overflow valve can control the pressure, which is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

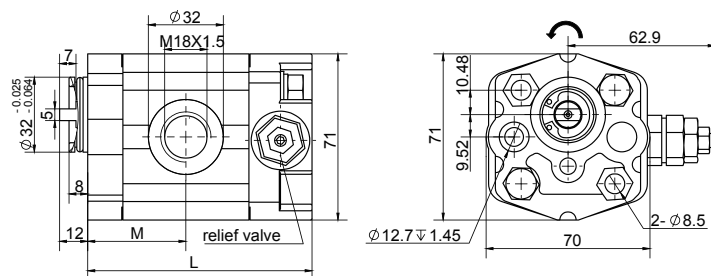
### Code Instruction

**CBKLY - G 2 \*\*\*-L B L-\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                B: Oblate key
- ⑦ Oil port form                         L: thread M18X1.5
- ⑧ Oil port position                    side inlet side outlet



### Outline Dimensions



Hydraulic Schematic

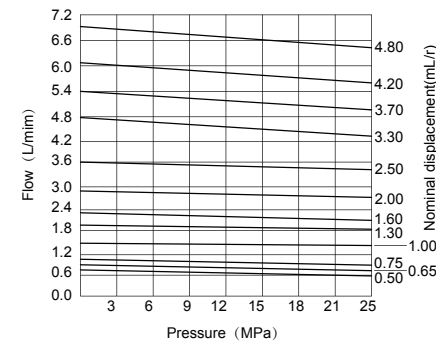
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)
		Rating	Maximum	Minimum	Maximum			
CBKLY-G1050	0.5	20	25	1000	6000	90	82.4	35.2
CBKLY-G1065	0.65	20	25	1000	6000	90	83.1	35.6
CBKLY-G1075	0.75	20	25	1000	6000	90	83.6	35.8
CBKLY-G1100	1.0	20	25	1000	6000	90	84.8	36.4
CBKLY-G1130	1.3	20	25	1000	6000	92	86.2	37.1
CBKLY-G1160	1.6	20	25	1000	6000	92	87.7	37.9
CBKLY-G1200	2.0	20	25	1000	6000	92	89.6	38.8
CBKLY-G1250	2.5	20	25	1000	6000	92	92.0	40
CBKLY-G1330	3.3	20	25	800	5000	92	93.0	41.9
CBKLY-G1370	3.7	20	25	800	4500	92	95.8	42.9
CBKLY-G1420	4.2	20	25	800	4000	93	97.8	44.1
CBKLY-G1480	4.8	20	25	800	3500	93	100.2	45.5

### Characteristic curve

Flow pressure characteristics:

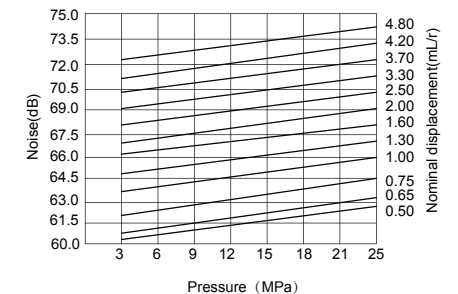
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55°C



## CBKL 9T Series

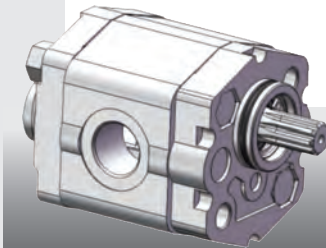
Gear pump is mainly composed of pump body, shaft sleeve, gear, front cover, rear cover and other parts, and the floating shaft sleeve is used for automatic axial compensation. Due to the use of helical gear structure, the noise of the pump is greatly reduced, is the upgrade of CBK straight pump products. With the characteristics of small volume, light weight, low noise, reliable work, convenient installation, use, maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, construction machinery and other hydraulic systems.

### Code Instruction

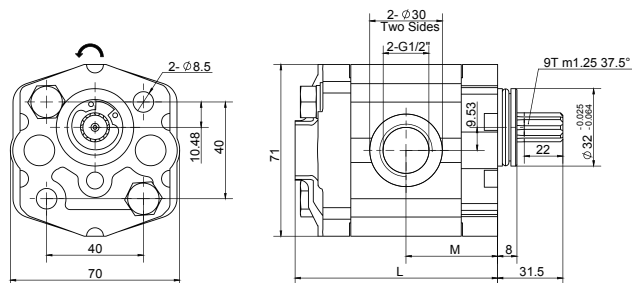
**CBKL 9T - G 2 \*\*\*-L H L-\***

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating      G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation      R: CW    L: CCW
- ⑥ Axial extension form      H: 9T Spline key
- ⑦ Oil port form      L: thread G1/2
- ⑧ Oil port position      side inlet side outlet



### Outline Dimensions



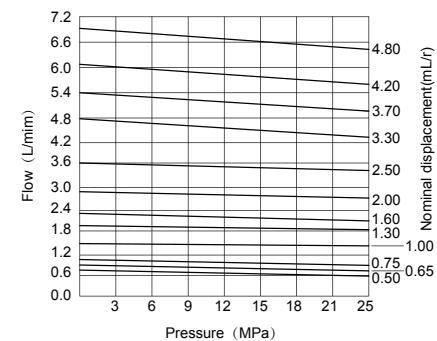
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)
		Rating	Maximum	Minimum	Maximum			
CBKL 9T-G2050	0.5	20	25	1000	6000	90	78.4	35.2
CBKL 9T-G2065	0.65	20	25	1000	6000	91	79.1	35.6
CBKL 9T-G2075	0.75	20	25	1000	6000	91	79.6	35.8
CBKL 9T-G2100	1.0	20	25	1000	6000	91	80.8	36.4
CBKL 9T-G2130	1.3	20	25	1000	6000	92	82.2	37.1
CBKL 9T-G2160	1.6	20	25	1000	6000	92	83.7	37.9
CBKL 9T-G2200	2.0	20	25	1000	6000	92	85.6	38.8
CBKL 9T-G2250	2.5	20	25	1000	6000	92	88	40.0
CBKL 9T-G2330	3.3	20	25	800	5000	92	91.8	41.9
CBKL 9T-G2370	3.7	20	25	800	4500	92	93.8	42.9
CBKL 9T-G2420	4.2	20	25	800	4000	93	96.2	44.1
CBKL 9T-G2480	4.8	20	23	800	3500	93	99	45.5

### Characteristic curve

Flow pressure characteristics:

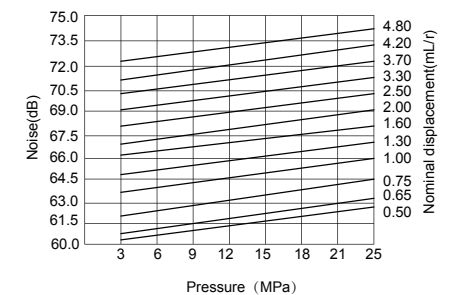
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C





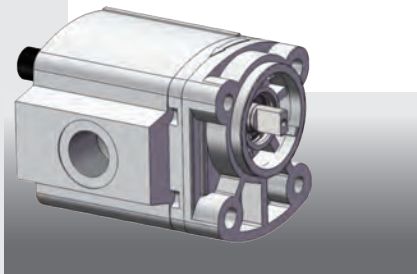
## CBTL Series

High pressure gear pump consists of pump body, shaft sleeve, gear, front cover and other parts. Adopt the two-segment structure of shell and front cover, which greatly improves the strength of the gear pump shell. The helical gear structure is adopted to reduce the noise of gear pump. Use the floating shaft sleeve for the automatic axial compensation. With the characteristics of low noise, small volume, light weight, simple structure, reliable work, mainly used in hydraulic power units, various hydraulic machinery, construction machinery, textile machinery, agricultural machinery and other hydraulic systems.

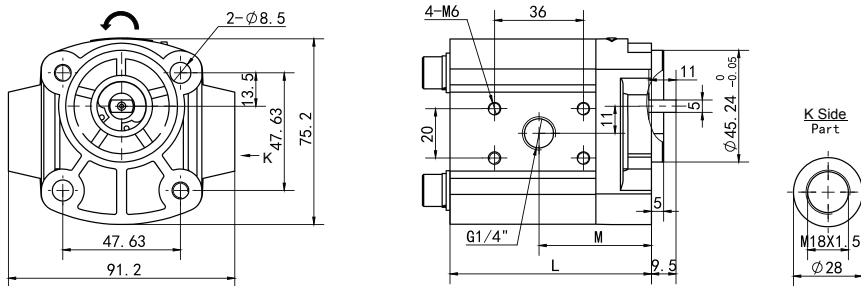
### Code Instruction

**CBTL - G 2 \*\*\*-L B L-\***  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension                      Oblate key B: 5    B1: 3.8
- ⑦ Oil port form                         L: thread M18X1.5
- ⑧ Oil port position                    side inlet side outlet



### Outline Dimensions



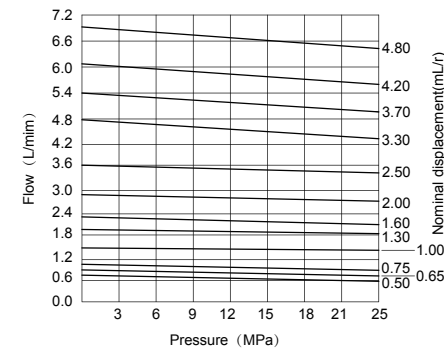
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		volumetric efficiency (≥%)	L (mm)	M (mm)
		Rating	Maximum pressure	Minimum	Maximum			
CBTL-G2050	0.5	20	25	1000	6000	90	76	42.7
CBTL-G2065	0.65	20	25	1000	6000	91	76.5	43.1
CBTL-G2075	0.75	20	25	1000	6000	91	77	43.3
CBTL-G2100	1.0	20	25	1000	6000	91	78.5	43.9
CBTL-G2130	1.3	20	25	1000	6000	92	79.5	44.6
CBTL-G2160	1.6	20	25	1000	6000	92	81.5	45.4
CBTL-G2200	2.0	20	25	1000	6000	92	83	46.3
CBTL-G2250	2.5	20	25	1000	6000	92	85.5	47.5
CBTL-G2330	3.3	20	23	800	5000	92	89.5	49.4
CBTL-G2370	3.7	20	23	800	4500	92	91.5	50.4
CBTL-G2420	4.2	20	23	800	4000	93	93.5	51.6
CBTL-G2480	4.8	19	21	800	3500	93	96.5	53.0

### Characteristic curve

Flow pressure characteristics:

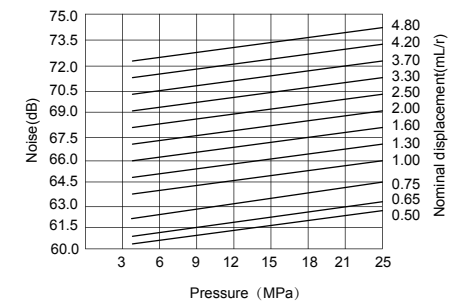
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



## CBT2A Series

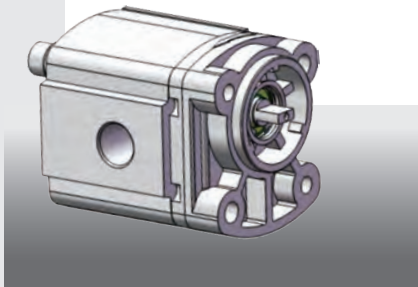
High pressure gear pump consists of pump body, shaft sleeve, gear, front cover and other parts. The strength of the gear pump shell is greatly improved by using the housing and the front cover. The straight gear structure is used to greatly reduce the axial force and thus reduce the loss. Use the floating shaft sleeve for the automatic axial compensation. With the characteristics of low noise, small volume, light weight, simple structure, reliable work, mainly used in hydraulic power units, various hydraulic machinery, construction machinery, textile machinery, agricultural machinery and other hydraulic systems.

### Code Instruction

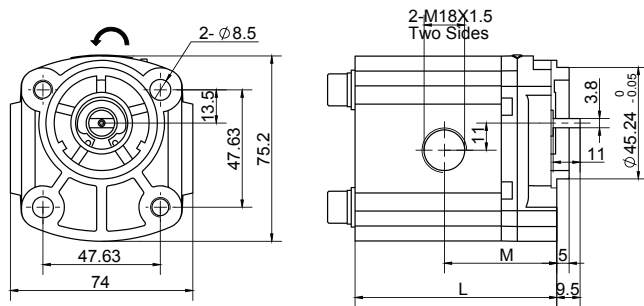
**CBT2A** - **G 2** **\*\*\*-L B L-\***

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                    G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation            R: CW    L: CCW
- ⑥ Axial extension form            Oblate key B: 5    B1: 3.8
- ⑦ Oil port form                      L: thread M18\*1.5
- ⑧ Oil port position                 side inlet side outlet



### Outline Dimensions



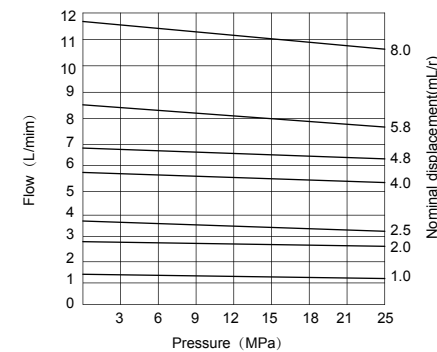
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency ( $\geq\%$ )	L (mm)	M (mm)
		Rating	Maximum	Minimum	Maximum			
CBT2A-G2065	0.65	20	25	1000	6000	90	71.8	40.8
CBT2A-G2100	1	20	25	1000	6000	91	73.2	41.5
CBT2A-G2130	1.3	20	25	1000	6000	92	74.4	42.1
CBT2A-G2160	1.6	20	25	1000	6000	92	75.6	42.7
CBT2A-G2200	2	20	25	1000	6000	92	77.2	43.5
CBT2A-G2250	2.5	20	25	1000	6000	92	79.2	44.5
CBT2A-G2310	3.1	20	25	1000	6000	92	81.5	45.7
CBT2A-G2400	4	20	25	1000	6000	93	85.2	47.5
CBT2A-G2420	4.2	20	25	800	5000	93	86	47.9
CBT2A-G2480	4.8	20	25	800	4500	93	88.4	49.1
CBT2A-G2520	5.2	16	20	800	3500	93	90	49.9
CBT2A-G2580	5.8	16	20	600	3000	93	92.4	51.1
CBT2A-G2700	7	16	20	600	2500	93	97.2	53.5
CBT2A-G2800	8	16	20	600	2000	93	101.2	55.5
CBT2A-G2900	9	16	20	600	1500	93	105.2	57.5
CBT2A-G2111	10	16	20	600	1500	93	109.2	59.5

### Characteristic curve

Flow pressure characteristics:

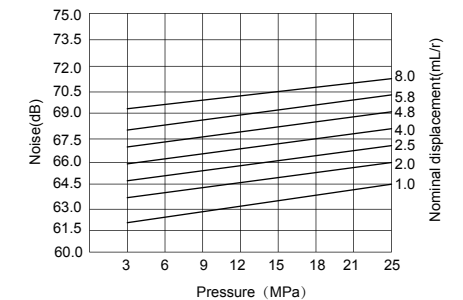
Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55^\circ\text{C}$



### Noise curve

Pressure noise characteristics:

Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55^\circ\text{C}$



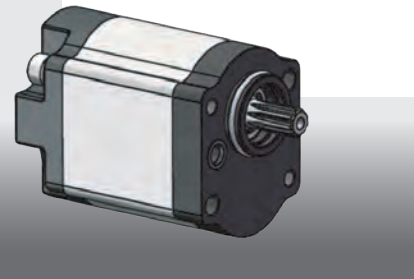
## CBH Series

Gear oil pump is mainly composed of pump body, sleeve, gear, front cover, back cover and other parts, and adopts floating sleeve for axial automatic compensation. It adopts bi-directional pump structure and can be reversed to realize energy recovery, which is an upgraded product of CBK straight gear pump. It has the characteristics of small volume, light weight, low noise, reliable work, easy installation, use and maintenance, etc. It is mainly used in hydraulic power units, various hydraulic machinery, engineering machinery and other hydraulic systems.

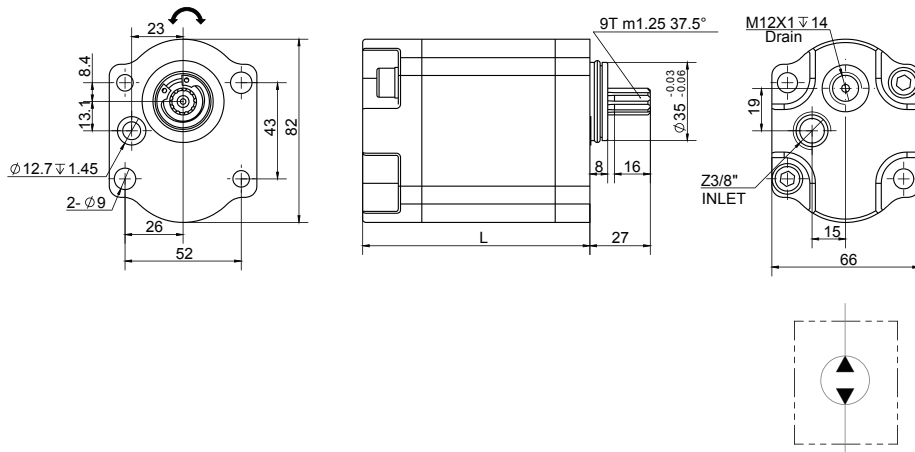
### Code Instruction

**CBH - G 2 \*\*\*-L H L- \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product Code
- ② Pressure Rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation              R: CW   L: CCW   S: bi-directional
- ⑥ Axial extension form                 H: 9T tooth spline key
- ⑦ Oil port form                            L: thread Z3/8   L1: thread G3/8
- ⑧ Oil position                             rear inlet front outlet



### Outline Dimensions



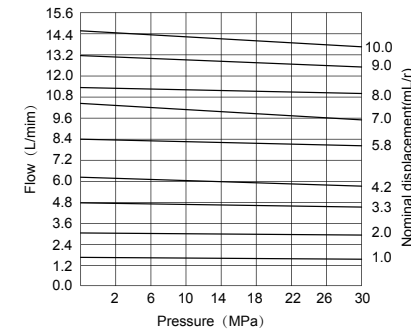
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L(mm)
		Rating	Maximum	Minimum	Maximum		
CBH-G1100	1	25	30	1000	6000	91	77.7
CBH-G1130	1.3	25	30	1000	6000	92	78.5
CBH-G1160	1.6	25	30	1000	6000	92	79.3
CBH-G1200	2	25	30	1000	6000	92	80.4
CBH-G1250	2.5	25	30	1000	6000	92	81.8
CBH-G1330	3.3	25	30	800	5000	92	83.9
CBH-G1370	3.7	25	30	800	4500	92	85.0
CBH-G1420	4.2	25	30	800	4000	92	86.3
CBH-G1480	4.8	25	30	800	3500	92	88.0
CBH-G1530	5.3	25	30	600	3500	93	89.3
CBH-G1580	5.8	25	30	600	3000	93	90.7
CBH-G1600	6	25	33	600	3000	93	91.2
CBH-G1700	7	25	30	600	2500	93	93.9
CBH-G1800	8	25	30	600	2000	93	96.6
CBH-G1900	9	25	30	600	1500	93	99.3
CBH-G1110	10	25	30	600	1500	93	101.7

### Characteristic curve

Flow pressure characteristics:

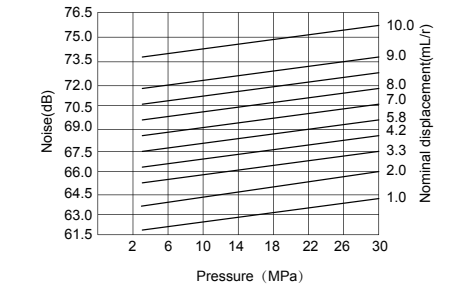
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



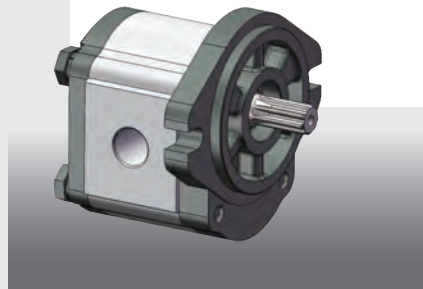
## CBN Series

Gear pump is composed of pump body, shaft sleeve, gear, front cover, rear cover and other main components, and the floating shaft sleeve is used for axial automatic compensation. It has characteristics of small size, light weight, simple structure, reliable work, and easy access for convenient installation, use and maintenance. This product is mainly used in various construction machinery, agricultural machinery and other hydraulic systems.

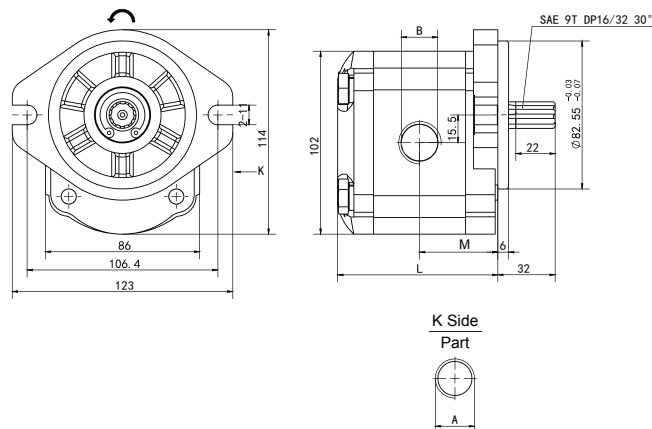
### Code Instruction

**CBN** - **G** **2** **\*\***-**L** **H** **L** -**\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                H: SAE 9 tooth spline key
- ⑦ Oil port form                            L: thread G1/2
- ⑧ Oil port position                      side inlet side outlet



### Outline Dimensions



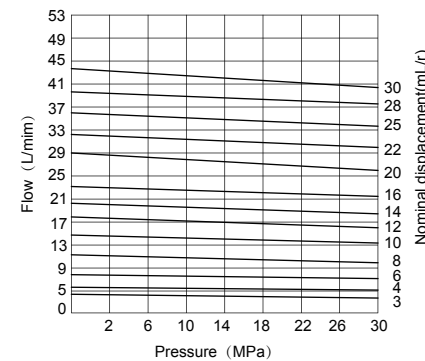
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	A	B
		Rating	Maximum	Minimum	Maximum					
CBN-G2030	3	25	30	800	4000	92	86.9	42.4	G1/2-14	G1/2-14
CBN-G2040	4	25	30	600	4000	92	88.5	43.2	G1/2-14	G1/2-14
CBN-G2060	6	25	30	600	4000	92	91.7	44.9	G1/2-14	G1/2-14
CBN-G2080	8	25	30	500	3500	92	95.0	46.5	G1/2-14	G1/2-14
CBN-G2100	10	25	30	500	3500	92	90.9	44.5	G1/2-14	G1/2-14
CBN-G2120	12	25	30	500	3500	92	101.4	49.7	G1/2-14	G1/2-14
CBN-G2140	14	25	28	500	3500	92	104.7	51.3	G3/4-14	G1/2-14
CBN-G2160	16	25	28	500	3500	92	107.9	53.0	G3/4-14	G1/2-14
CBN-G2180	18	25	28	400	3500	92	111.2	54.6	G3/4-14	G1/2-14
CBN-G2200	20	22	25	400	3200	92	114.4	56.2	G3/4-14	G1/2-14
CBN-G2220	22	22	25	400	3000	92	117.6	57.8	G1-11	G3/4-14
CBN-G2250	25	20	23	400	3000	92	122.5	60.3	G1-11	G3/4-14
CBN-G2280	28	18	20	400	2500	92	127.4	62.7	G1-11	G3/4-14
CBN-G2300	30	16	18	400	2500	92	130.6	64.3	G1-11	G3/4-14

### Characteristic curve

Flow pressure characteristics:

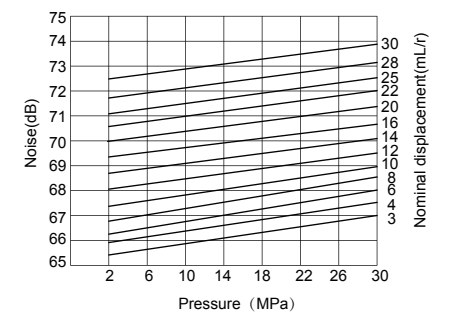
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



## CBN-B Series

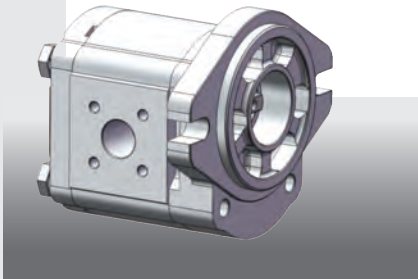
Gear pump is composed of the pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using the floating shaft sleeve for the axial automatic compensation. With a small size, light weight, simple structure, reliable work, convenient installation, use, maintenance and other characteristics, this product is mainly used in various construction machinery, agricultural machinery and other hydraulic systems.

### Code Instruction

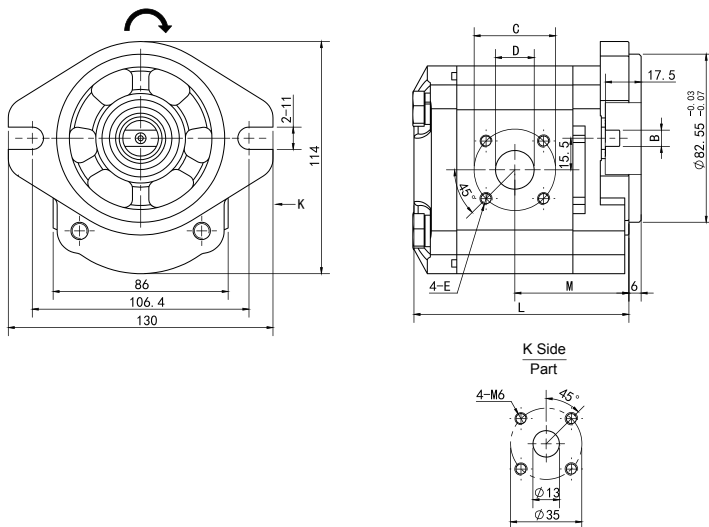
CBN - G 2 \*\* - R B F - \*

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation R: CW L: CCW
- ⑥ Axial extension form Oblate key B: 8 B1: 10
- ⑦ Oil port form F: flange type
- ⑧ Oil port position side inlet side outlet



### Outline Dimensions



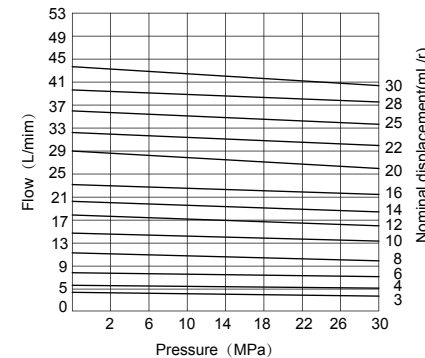
### Performance Parameter

	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	B	C	D	E
		Rating	Maximum	Minimum	Maximum							
CBN-G2030-B	3	25	30	800	4000	92	97.4	51.9	8	40	15	M6
CBN-G2040-B	4	25	30	600	4000	92	99.0	52.7	8	40	15	M6
CBN-G2060-B	6	25	30	600	4000	92	102.2	54.4	8	40	15	M6
CBN-G2080-B	8	25	30	500	3500	92	105.5	56.0	8	40	15	M6
CBN-G2100-B	10	25	30	500	3500	92	101.4	54.0	10	40	20	M6
CBN-G2120-B	12	25	30	500	3500	92	111.9	59.2	10	40	20	M6
CBN-G2140-B	14	25	28	500	3500	92	115.2	60.8	10	40	20	M6
CBN-G2160-B	16	25	28	500	3500	92	118.4	62.5	10	40	20	M6
CBN-G2180-B	18	25	28	400	3500	92	121.7	64.1	10	55	26	M8
CBN-G2200-B	20	22	25	400	3200	92	124.9	65.7	10	55	26	M8
CBN-G2220-B	22	22	25	400	3000	92	128.1	67.3	10	55	26	M8
CBN-G2250-B	25	20	23	400	3000	92	133.0	69.8	10	55	26	M8
CBN-G2280-B	28	18	20	400	2500	92	137.9	72.2	10	55	26	M8
CBN-G2300-B	30	16	18	400	2500	92	141.1	73.8	10	55	26	M8

### Characteristic curve

Flow pressure characteristics:

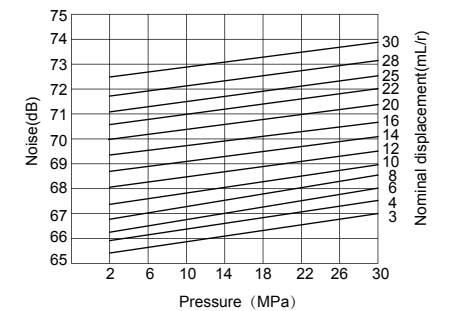
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



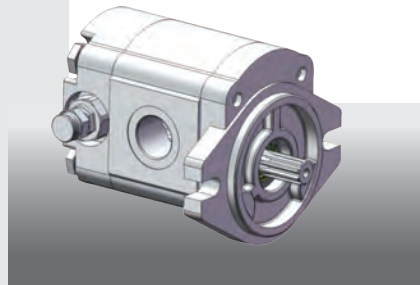
## CBNY Series

Gear pump is composed of the pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using the floating shaft sleeve for the axial automatic compensation. With a small volume, light weight, simple structure, reliable work, convenient installation, use, maintenance and other characteristics, the pump with the relief valve can control the pressure. This product is mainly used in various construction machinery, agricultural machinery and other hydraulic systems.

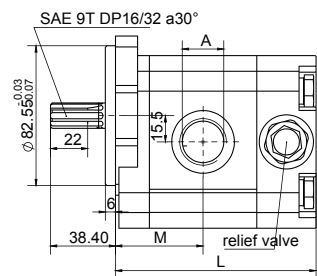
### Code Instruction

**CBNY - G 2 \*\* - L H L - \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

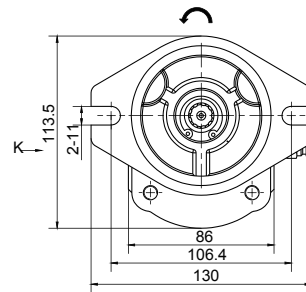
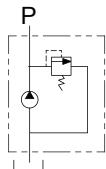
- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                H: SAE 9 tooth spline key
- ⑦ Oil port form                            L: thread G3/4
- ⑧ Oil port position                        side inlet side outlet



### Outline Dimensions



Hydraulic Schematic



K Side Part



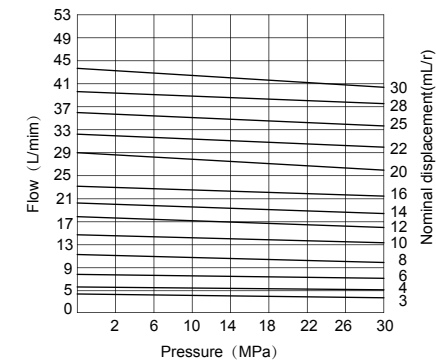
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	A	B
		Rating	Maximum	Minimum	Maximum					
CBNY-G2030	3	25	30	800	4000	92	86.9	42.4	G1/2-14	G1/2-14
CBNY-G2040	4	25	30	600	4000	92	88.5	43.2	G1/2-14	G1/2-14
CBNY-G2060	6	25	30	600	4000	92	91.7	44.9	G1/2-14	G1/2-14
CBNY-G2080	8	25	30	500	3500	92	95.0	46.5	G1/2-14	G1/2-14
CBNY-G2100	10	25	30	500	3500	92	90.9	44.5	G1/2-14	G1/2-14
CBNY-G2120	12	25	30	500	3500	92	101.4	49.7	G1/2-14	G1/2-14
CBNY-G2140	14	25	28	500	3500	92	104.7	51.3	G3/4-14	G1/2-14
CBNY-G2160	16	25	28	500	3500	92	107.9	53.0	G3/4-14	G1/2-14
CBNY-G2180	18	25	28	400	3500	92	111.2	54.6	G3/4-14	G1/2-14
CBNY-G2200	20	22	25	400	3200	92	114.4	56.2	G3/4-14	G1/2-14
CBNY-G2220	22	22	25	400	3000	92	117.6	57.8	G1-11	G3/4-14
CBNY-G2250	25	20	23	400	3000	92	122.5	60.3	G1-11	G3/4-14
CBNY-G2280	28	18	20	400	2500	92	127.4	62.7	G1-11	G3/4-14
CBNY-G2300	30	16	18	400	2500	92	130.6	64.3	G1-11	G3/4-14

### Characteristic curve

Flow pressure characteristics:

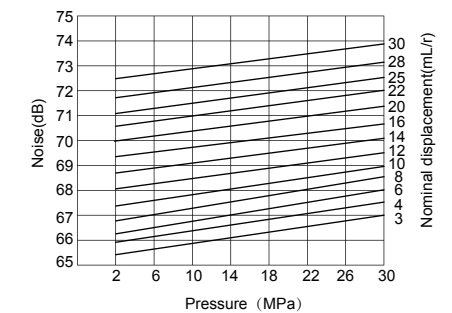
Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55\text{C}$



### Noise curve

Pressure noise characteristics:

Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55\text{C}$



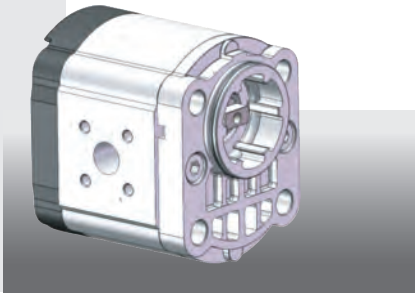
## CBR Series

Gear pump is composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using floating split shaft sleeve for axial automatic compensation. No side gap meshing, the product is relatively ordinary external meshing pump noise greatly reduced, has the characteristics of small volume, light weight, simple structure, reliable work, convenient installation, use, maintenance and so on, this product is mainly used in a variety of construction machinery, agricultural machinery and other hydraulic systems.

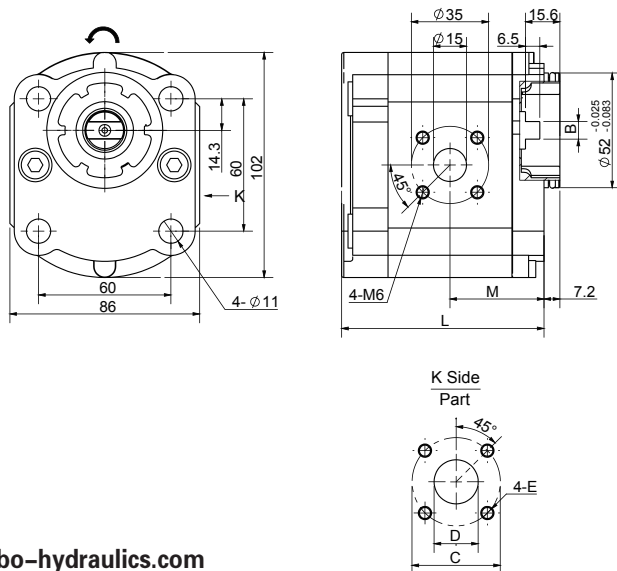
### Code Instruction

**CBR - G 2 \*\* - L B F - \***  
 ①      ② ③    ④    ⑤    ⑥    ⑦    ⑧

- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                Oblate key B: 8    B1: 10
- ⑦ Oil port form                          F: flange type
- ⑧ Oil port position                      side inlet side outlet



### Outline Dimensions



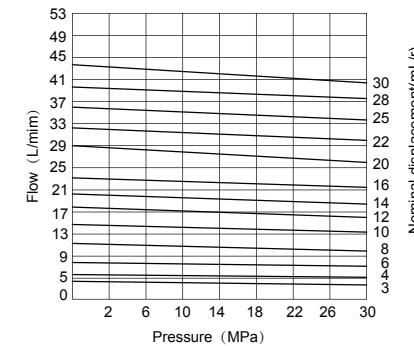
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency ( $\geq\%$ )	L (mm)	M (mm)	B	C	D	E
		Rating	Maximum	Minimum	Maximum							
CBR-G2030	3	25	30	800	4000	92	78.5	36.0	8	40	15	M6
CBR-G2040	4	25	30	600	4000	92	80.1	36.8	8	40	15	M6
CBR-G2060	6	25	30	600	4000	92	83.4	38.5	8	40	15	M6
CBR-G2080	8	25	30	500	3500	92	86.7	40.1	8	40	15	M6
CBR-G2100	10	25	30	500	3500	92	90.0	41.8	10	40	20	M6
CBR-G2120	12	25	30	500	3500	92	93.3	43.4	10	40	20	M6
CBR-G2140	14	25	28	500	3500	92	96.6	45.1	10	40	20	M6
CBR-G2160	16	25	28	500	3500	92	99.9	46.7	10	40	20	M6
CBR-G2180	18	25	28	400	3500	92	103.2	48.4	10	55	26	M8
CBR-G2200	20	22	25	400	3200	92	106.5	50.0	10	55	26	M8
CBR-G2220	22	22	25	400	3000	92	109.8	51.7	10	55	26	M8
CBR-G2250	25	20	23	400	3000	92	114.8	54.1	10	55	26	M8
CBR-G2280	28	18	20	400	2500	92	119.7	56.6	10	55	26	M8
CBR-G2300	30	16	18	400	2500	92	123.0	58.3	10	55	26	M8

### Characteristic curve

Flow pressure characteristics:

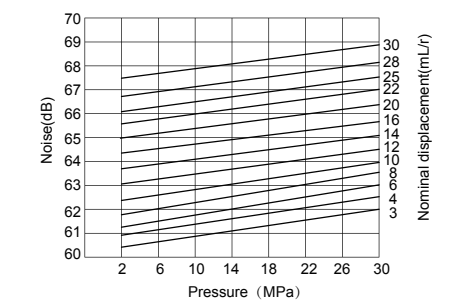
Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55\text{C}$



### Noise curve

Pressure noise characteristics:

Test condition:  $n=1450\text{r/min}$   $V=46\text{mm}^3/\text{s}$   $t=55\text{C}$



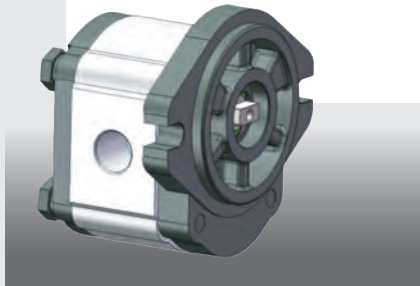
## CBR-B Series

Gear pump is composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using floating split shaft sleeve for axial automatic compensation. No side gap meshing, the product is relatively ordinary external meshing pump noise greatly reduced, has the characteristics of small volume, light weight, simple structure, reliable work, convenient installation, use, maintenance and so on, this product is mainly used in a variety of construction machinery, agricultural machinery and other hydraulic systems.

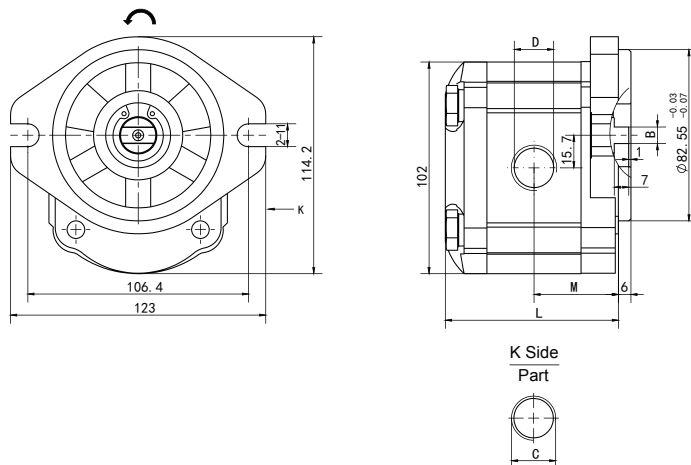
### Code Instruction

**CBR** - **G 2** **\*\***-**L** **B L** **-\***  
 ①            ② ③ ④ ⑤            ⑥ ⑦            ⑧

- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                Oblate key B: 8    B1: 10
- ⑦ Oil port form                         L: thread G1/2
- ⑧ Oil port position                      side inlet side outlet



### Outline Dimensions



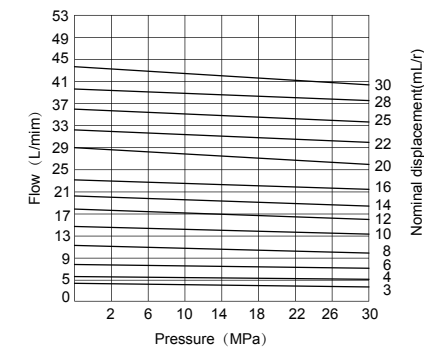
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	B	C	D
		Rating	Maximum	Minimum	Maximum						
CBR-G2030-B	3	25	30	800	4000	92	81.0	39.5	8	G1/2-14	G1/2-14
CBR-G2040-B	4	25	30	600	4000	92	82.6	40.3	8	G1/2-14	G1/2-14
CBR-G2060-B	6	25	30	600	4000	92	85.9	42.0	8	G1/2-14	G1/2-14
CBR-G2080-B	8	25	30	500	3500	92	89.2	43.6	8	G1/2-14	G1/2-14
CBR-G2100-B	10	25	30	500	3500	92	92.5	45.3	10	G1/2-14	G1/2-14
CBR-G2120-B	12	25	30	500	3500	92	95.8	46.9	10	G1/2-14	G1/2-14
CBR-G2140-B	14	25	28	500	3500	92	99.1	48.6	10	G3/4-14	G1/2-14
CBR-G2160-B	16	25	28	500	3500	92	102.4	50.2	10	G3/4-14	G1/2-14
CBR-G2180-B	18	25	28	400	3500	92	105.7	51.9	10	G3/4-14	G1/2-14
CBR-G2200-B	20	22	25	400	3200	92	109.0	53.5	10	G3/4-14	G1/2-14
CBR-G2220-B	22	22	25	400	3000	92	112.3	55.2	10	G1-11	G3/4-14
CBR-G2250-B	25	20	23	400	3000	92	117.3	57.6	10	G1-11	G3/4-14
CBR-G2280-B	28	18	20	400	2500	92	122.2	60.1	10	G1-11	G3/4-14
CBR-G2300-B	30	16	18	400	2500	92	125.5	61.8	10	G1-11	G3/4-14

### Characteristic curve

Flow pressure characteristics:

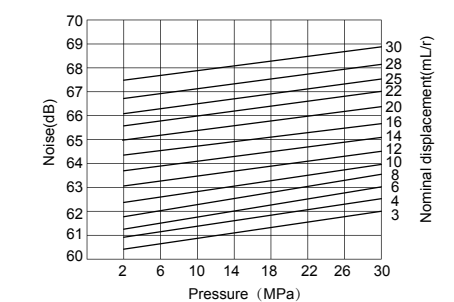
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



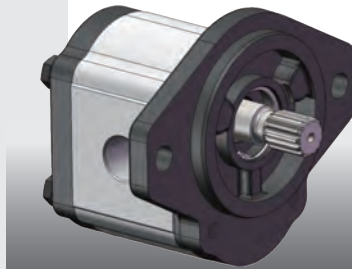
## CBN3 Series

Gear pump is composed of pump body, shaft cover, gear, front cover, rear cover and other main parts, using cast iron pump cover and floating shaft cover for the automatic axial compensation. With the characteristics of small size, light weight, simple structure, reliable work, convenient installation, use and maintenance, this product is mainly used in various construction machinery, agricultural machinery and other hydraulic systems.

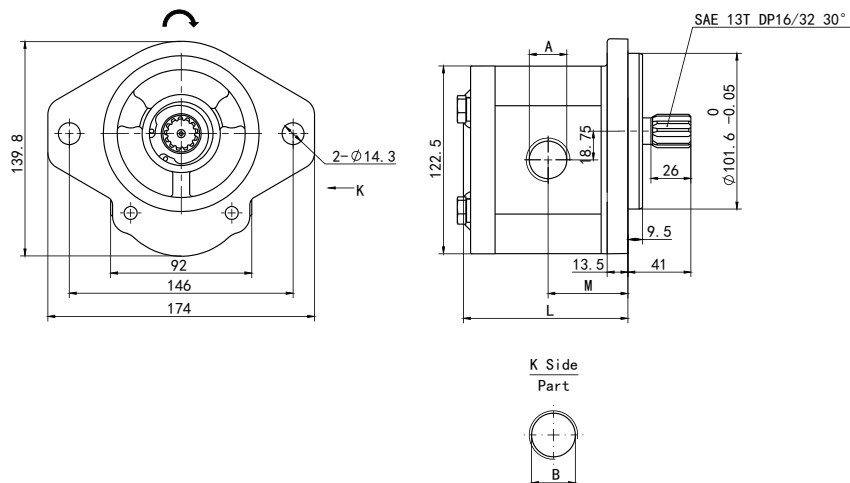
### Code Instruction

**CBN** - **G 3** **\*\***-**R H L** -**\***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Direction of rotation                R: CW    L: CCW
- ⑥ Axial extension form                H: SAE 13 tooth spline key
- ⑦ Oil port form                         L: thread G3/4
- ⑧ Oil port position                     side inlet side outlet



### Outline Dimensions



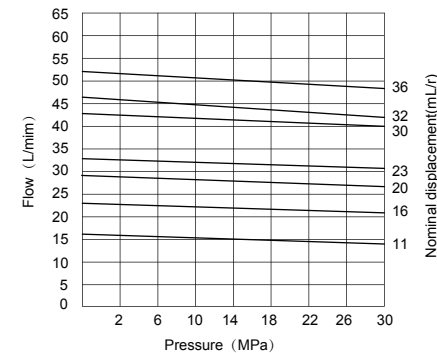
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	A	B
		Rating	Maximum	Minimum	Maximum					
CBN-G311	11	25	30	600	4000	92	104.1	48.5	G3/4-14	G1/2-14
CBN-G316	16	25	30	600	3500	92	111.3	52.1	G3/4-14	G1/2-14
CBN-G320	20	25	30	600	3000	92	117.1	55	G3/4-14	G1/2-14
CBN-G323	23	25	30	600	3000	92	121.5	57.2	G1-11	G3/4-14
CBN-G330	30	23	26	600	3000	92	131.6	62.3	G1-11	G3/4-14
CBN-G332	32	23	26	600	2600	92	134.1	63.6	G1-11	G3/4-14
CBN-G336	36	20	25	600	2750	92	140.3	66.7	G1-11	G3/4-14

### Characteristic curve

Flow pressure characteristics:

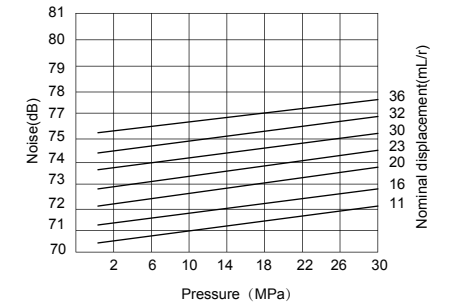
Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55℃



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>3</sup>/s t=55℃



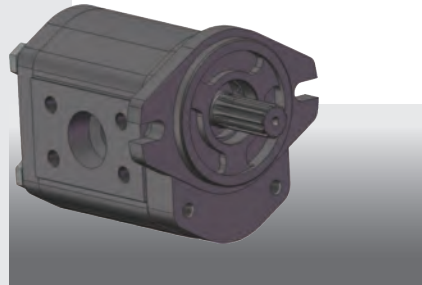
## CBN4 Series

Gear pump is composed of pump body, shaft sleeve, gear, front cover, rear cover and other main parts, using cast iron shell, pump cover and floating shaft cover for the automatic axial compensation. With the characteristics of small size, light weight, simple structure, reliable work, convenient installation, use and maintenance, this product is mainly used in various construction machinery, agricultural machinery and other hydraulic systems.

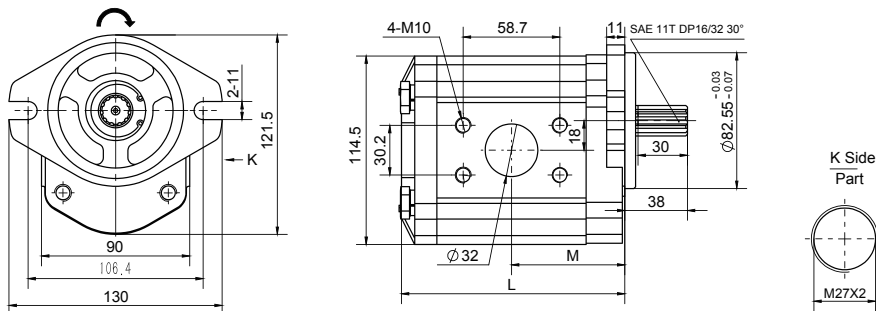
### Code Instruction

**CBN - G 4 \*\* - R H F - \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product code
- ② Pressure rating                      G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation            R: CW    L: CCW
- ⑥ Axial extension form                H: SAE 11 tooth spline key
- ⑦ Oil port form                          F: flange type
- ⑧ Oil port position                      side inlet side outlet



### Outline Dimensions



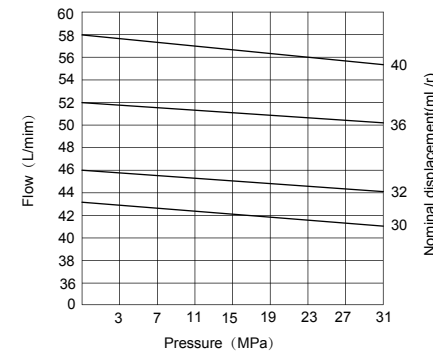
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)
		Rating	Maximum	Minimum	Maximum			
CBN-G430	30	25	31	600	3000	92	104.1	48.5
CBN-G432	32	25	31	600	3000	92	111.3	52.1
CBN-G436	36	25	31	600	3000	92	117.1	55
CBN-G440	40	25	31	600	3000	92	121.5	57.2

### Characteristic curve

Flow pressure characteristics:

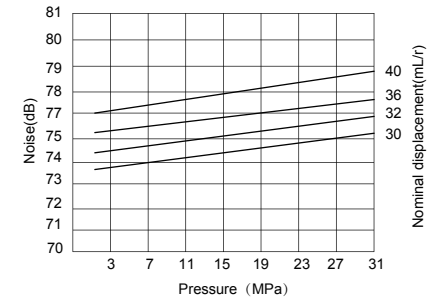
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 °C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 °C



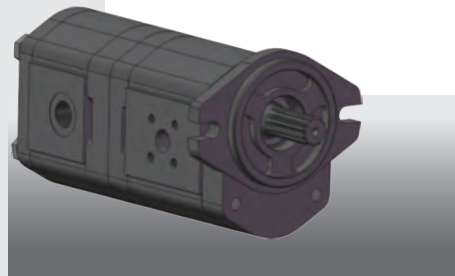
## 2CBN4 Module Series

The duplex gear pump is mainly composed of two gear pumps in parallel composition. The gear pump is composed of the pump body, shaft sleeve, gear, front cover, rear cover and other main parts. The cast iron shell, pump cover and floating shaft sleeve are used for the axial automatic compensation. With the characteristics of small volume, light weight, low noise, reliable work, convenient installation, use, maintenance and so on, it is mainly used in a variety of hydraulic machinery, construction machinery, agricultural machinery and other hydraulic systems.

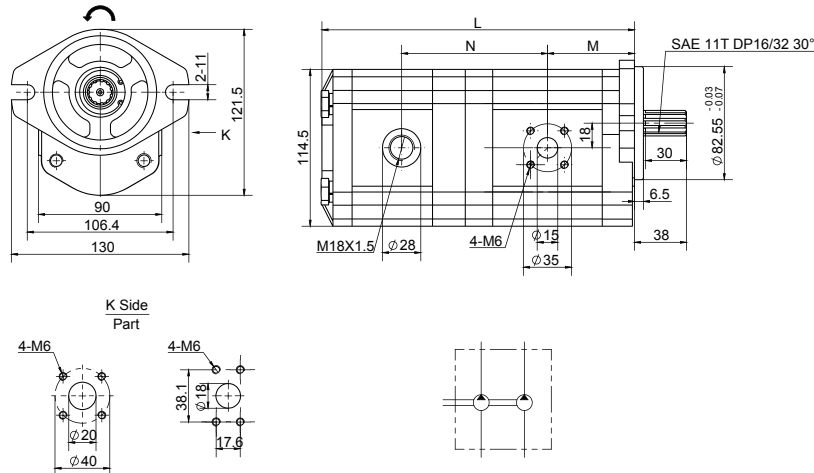
### Code Instruction

**2CBN - G 4 \*\* - L H F - \***  
①            ② ③ ④    ⑤ ⑥ ⑦    ⑧

- ① Product code
- ② Pressure rating                    G: 25MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation        R: CW    L: CCW
- ⑥ Axial extension form         H: SAE 11 tooth spline key
- ⑦ Oil port form                    F: flange type
- ⑧ Oil port position                side inlet side outlet



### Outline Dimensions



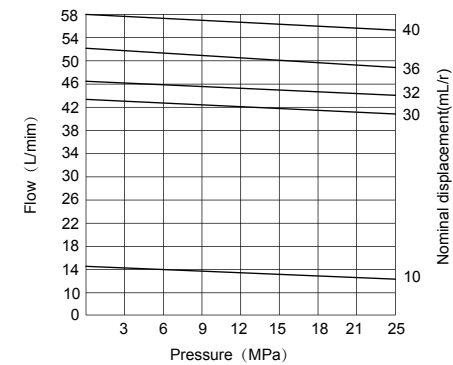
### Performance Parameter

Code	Nominal displacement (mL/r)		Pressure (MPa) Maximum	Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)	N (mm)
	Front pump	Rear pump		Minimum	Maximum				
2CBN-G430/G410	30	10	25	600	3000	91	228.2	63.5	106.5
2CBN-G432/G410	32	10	25	600	3000	91	230.3	64.6	107.6
2CBN-G436/G410	36	10	25	600	3000	91	234.6	66.7	109.7
2CBN-G440/G410	40	10	25	600	3000	91	238.9	68.9	111.9

### Characteristic curve

Flow pressure characteristics:

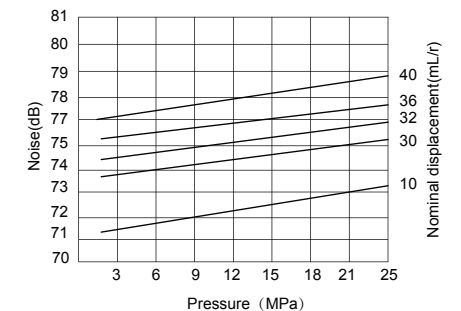
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C





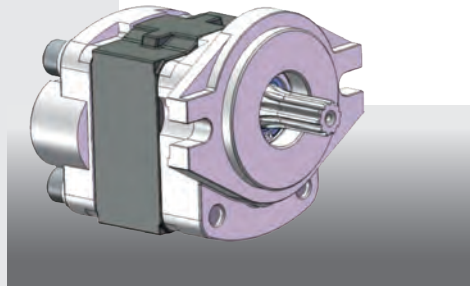
## CBGF Series

Low noise gear pump mainly consists of pump body, floating side plate, gear, front cover, back cover and other major parts, gears are designed with no side gap structure, floating side plate for axial automatic compensation. With low noise, high efficiency and reliable work, it is used in the hydraulic system of internal combustion forklift, electric forklift and construction machinery.

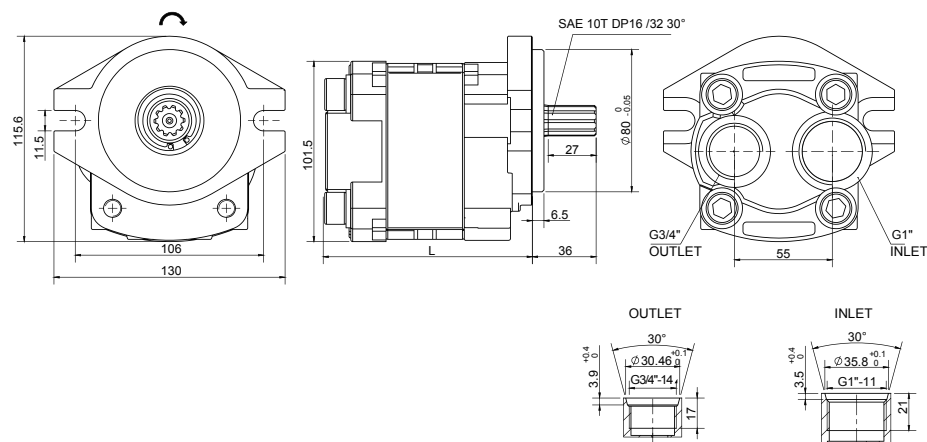
### Code Instruction

**CBGF - G 2 \*\* - R H L - \***  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Product Code
- ② Pressure Rating                      G: 20MPa
- ③ Appearance number
- ④ Nominal displacement
- ⑤ Directional of rotation            R: CW    L: CCW
- ⑥ Axial extension form                H: SAE 10 tooth spline key
- ⑦ Oil port form                          L: thread G1
- ⑧ Oil port position                      rear inlet rear outlet



### Outline Dimensions



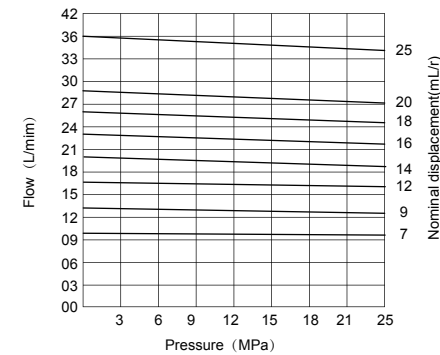
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)
		Rating	Maximum	Minimum	Maximum		
CBGF-G2070	7	20	25	600	3000	92	97.3
CBGF-G2090	9	20	25	600	3000	92	98.9
CBGF-G2110	11	20	25	600	3000	92	102.2
CBGF-G2120	12	20	25	600	3000	92	103.5
CBGF-G2140	14	20	25	600	3000	92	105.9
CBGF-G2160	16	20	25	600	3000	92	108.4
CBGF-G2180	18	20	25	600	3000	92	110.9
CBGF-G2190	19	20	25	600	3000	92	112.1
CBGF-G2200	20	20	25	600	3000	92	113.4
CBGF-G2230	23	20	25	600	3000	92	117.1
CBGF-G2250	25	20	25	600	3000	92	119.6

### Characteristic curve

Flow pressure characteristics:

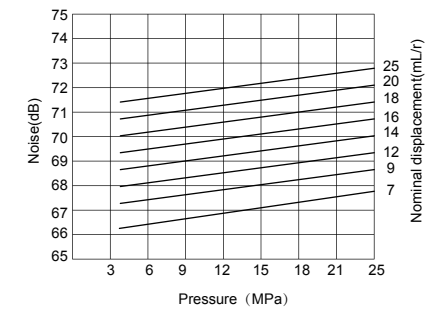
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C







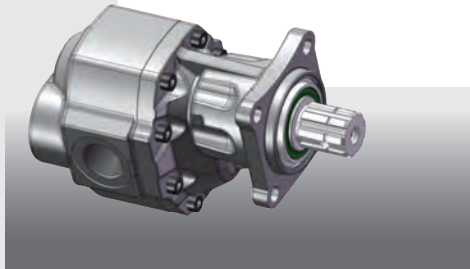
## CBC Series

Gear pump is a two-way gear pump structure with positive and negative rotation of the main shaft. The pump body, front cover and rear cover are made of high strength wear-resistant cast iron material, mainly composed of the pump body, front cover, back cover, floating side plate, gear, seals and connecting shaft and other main parts. The floating side plate is used for axial automatic compensation. Because of the front cover with bearing and connecting shaft structure, can make the pump bear radial force, and reduce the noise of the pump. With high pressure impact resistance, anti-disturbance, anti-pollution ability, suitable for construction machinery, heavy load hydraulic system.

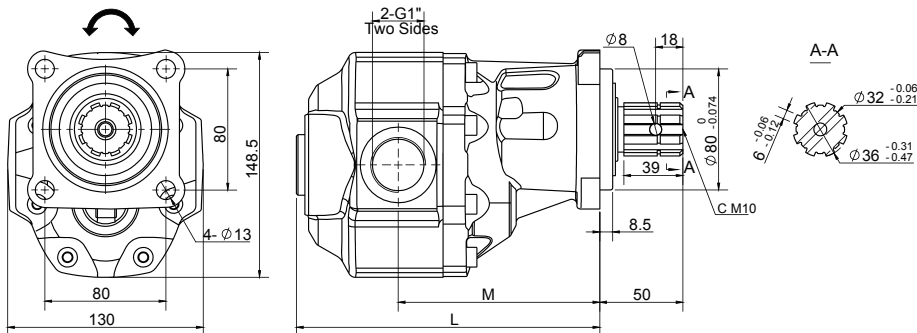
### Code Instruction

CBC - G 51-S H F L  
① ② ③ ④ ⑤ ⑥ ⑦

- ① Product Code
- ② Pressure Rating                      G: 25MPa
- ③ Normal displacement:
- ④ Direction of rotation                S: bi-direction
- ⑤ Axial extension form                H: rectangular spline
- ⑥ Mounting form                        F: Square flange
- ⑦ Oil port form                         L: G1



### Outline Dimensions



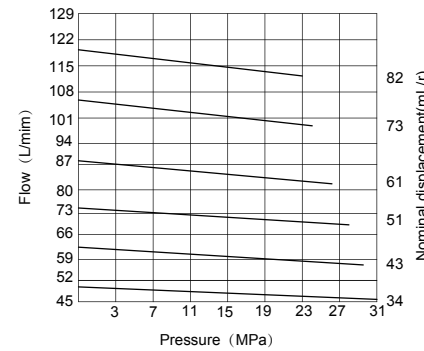
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L (mm)	M (mm)
		Rating	Maximum	Minimum	Maximum			
CBC-G82	82	20	23	300	3500	92	219	146.5
CBC-G73	73	21	24	300	3500	92	214	141.5
CBC-G61	61	23	26	300	3500	92	206	138.5
CBC-G51	51	25	28	300	3500	92	200	132.5
CBC-G43	43	27	30	300	3500	92	195	127.5
CBC-G34	34	28	31	300	4200	92	189	130.5

### Characteristic curve

Flow pressure characteristics:

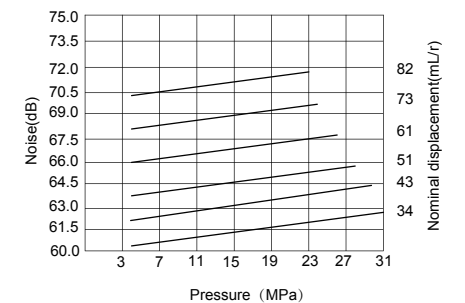
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



## CBIS1 Series

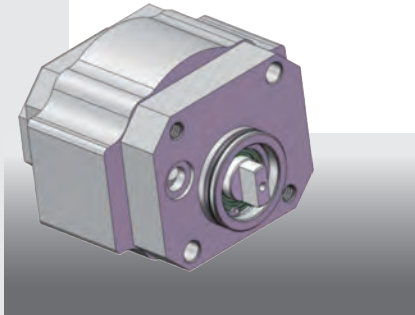
The internal gear pump consists of pump body, inner gear ring, gear shaft, front cover, rear cover, flow distribution plate, crescent plate, sealing rod and other parts. It is designed for axial and radial pressure compensation. With the characteristics of high working pressure, wide speed range, low noise, small volume, light weight, reliable work, mainly suitable for all kinds of hydraulic machinery, construction machinery and other hydraulic systems.

### Code Instruction

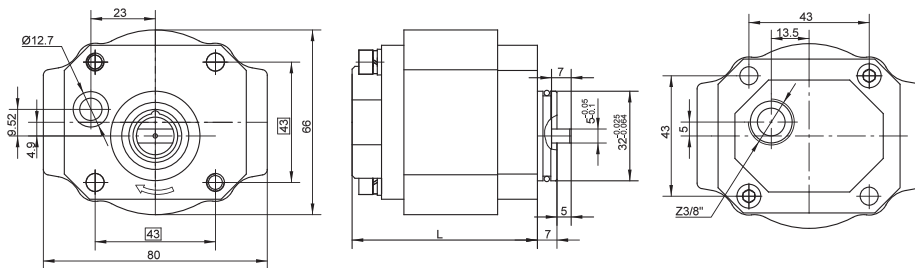
**CBIS1** - **F** **\*\*\***-**R** **B** **L**-**\***

①            ②    ③    ④   ⑤   ⑥   ⑦

- ① Product code
- ② Pressure rating                      F: 20MPa
- ③ Nominal displacement
- ④ Direction of rotation                R: CW    L: CCW
- ⑤ Axial extension form                B: Oblate Key
- ⑥ Oil port form                         L: thread Z3/8
- ⑦ Oil port position                      A: rear inlet, front outlet  
    B: side inlet, side outlet



### Outline Dimensions



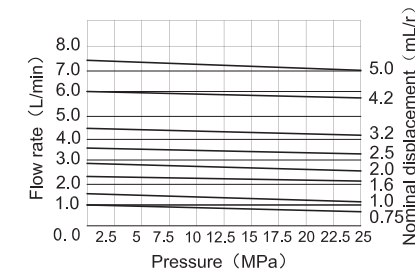
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L
		Rating	Maximum	Minimum	Maximum		
CBIS1-F075	0.75	20	25	200	4000	93	53.8
CBIS1-F100	1.0						55
CBIS1-F160	1.6						58
CBIS1-F200	2.0						60
CBIS1-F250	2.5						62.5
CBIS1-F320	3.2						66
CBIS1-F420	4.2						71

### Characteristic curve

Flow pressure characteristics:

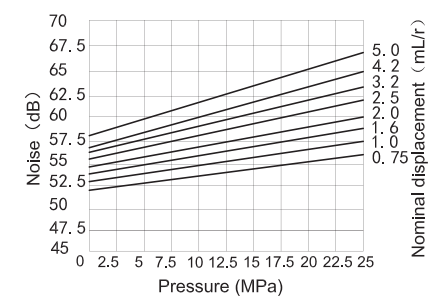
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C





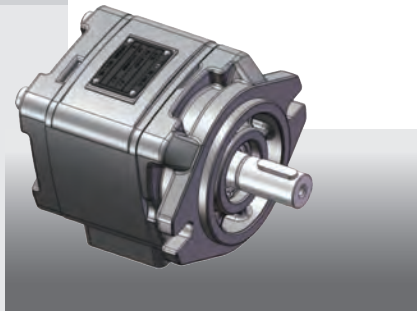
## VG0 Series

Internal gear pump is composed of pump body, inner gear ring, gear shaft, front cover, rear cover, valve plate, crescent plate, sealing rod and other parts. The front and rear cover and pump body are of high strength cast iron structure and are designed with axial and radial pressure compensation. It has the characteristics of high working pressure, wide speed range, low noise and reliable operation. It is mainly used in the hydraulic system of bending machine, die casting machine and other machinery.

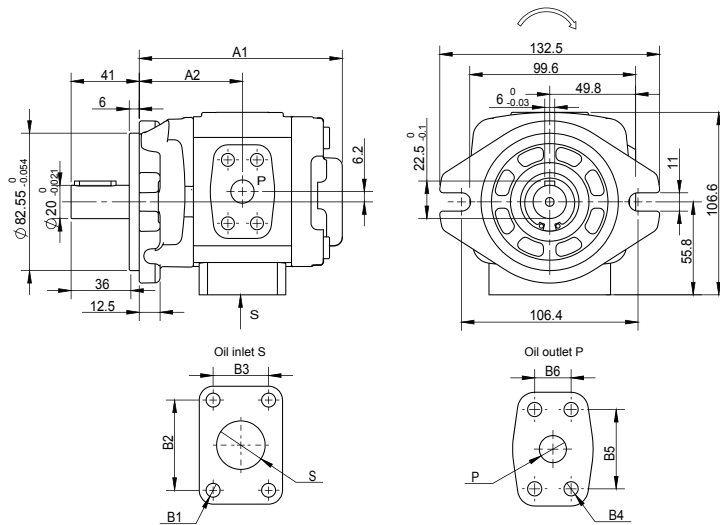
### Code Instruction

**VG0 - G \*\* - R P F**  
① ② ③ ④ ⑤ ⑥

- ① Production code
- ② Pressure Rating: G: 31.5MPa
- ③ Nominal displacement
- ④ Direction of rotation R: CW L:CCW
- ⑤ Axial extension form P: flat key F: flange type
- ⑥ Oil port type:



### Outline Dimensions



### Performance Parameter

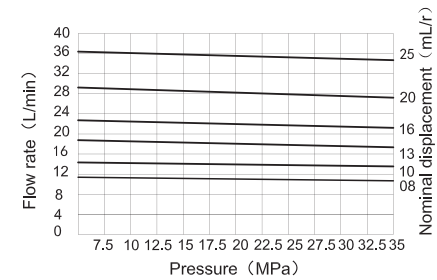
Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
		Rating	Maximum	Minimum	Maximum			
VG0-G08	8	31.5	35	200	3000	92	54	106
VG0-G10	10	31.5	35	200	3000	92	56	110
VG0-G13	13	31.5	35	200	3000	92	59.5	116
VG0-G16	16	31.5	35	200	3000	92	62	122
VG0-G20	20	25	30	200	3000	92	65.5	130
VG0-G25	25	25	30	200	3000	92	71.5	140

Code	Nominal displacement (mL/r)	S	B1	B2	B3	P	B4	B5	B6
VG0-G08	8	Φ19	M10*15	47.6	22.6	Φ13	M8*13	38.1	17.5
VG0-G10	10			52.4	26.2				
VG0-G13	13								
VG0-G16	16								
VG0-G20	20	Φ26	58.7	30.2	Φ18	M10*15	47.6	22.2	
VG0-G25	25	Φ28			Φ19				

### Characteristic curve

Flow pressure characteristics:

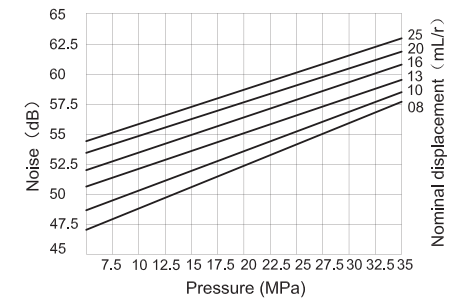
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



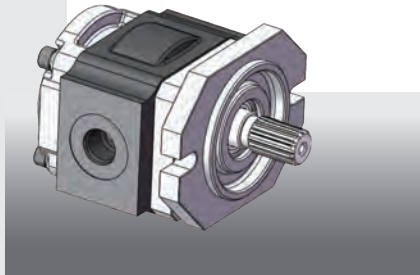
## VG0B Series

The internal gear pump consists of pump body, inner gear ring, gear shaft, front cover, back cover, flow distribution disc, crescent plate, sealing rod and other components. The front and rear covers are made of aluminum alloy and the pump body is made of high-strength cast iron structure with axial and radial pressure compensation design. With high working pressure, wide speed range, low noise, reliable work, etc., it is mainly used in the hydraulic system of new energy vehicles and various construction machinery.

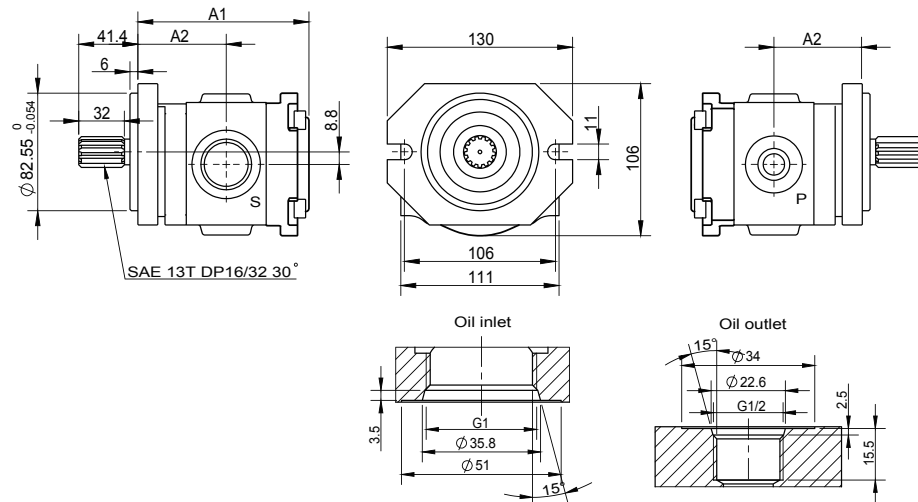
### Code Instruction

**VG0B - F \*\* - R P L2**  
① ② ③ ④ ⑤ ⑥

- ① Production code
- ② Pressure rating F: 21MPa
- ③ Nominal displacement
- ④ Direction of rotation R: CW L: CCW
- ⑤ Axial extension form P: Flat key H1: SAE spline key 13 tooth H2: SAE spline key 10 tooth
- ⑥ Oil port form L1: inlet and outlet thread 24x1.5 & 22x1.5 L2: inlet and outlet thread G1 & G1/2



### Outline Dimensions



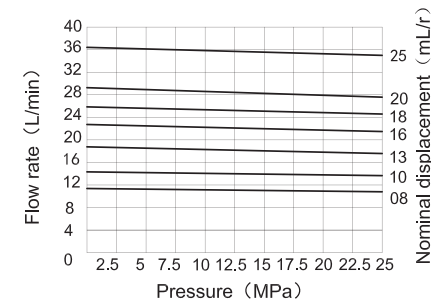
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
		Rating	Maximum	Minimum	Maximum			
VG0B-G08	8	21	25	200	3000	92	52	100
VG0B-G10	10	21	25	200	3000	92	54	104
VG0B-G13	13	21	25	200	3000	92	57	110
VG0B-G16	16	21	25	200	3000	92	60	116
VG0B-G18	18	21	25	200	3000	92	62	120
VG0B-G20	20	21	25	200	3000	92	64	124
VG0B-G25	25	21	25	200	3000	92	69	134

### Characteristic curve

Flow pressure characteristics:

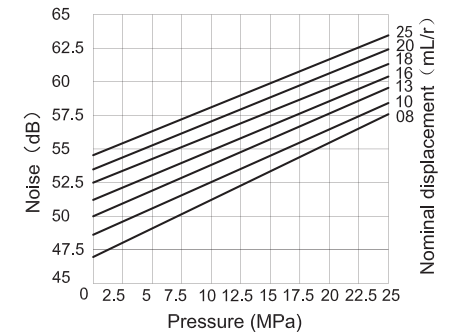
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



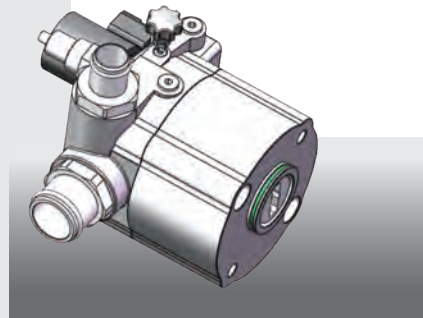
## VG0L Series

The internal gear pump consists of pump body (front cover), inner gear ring, gear shaft, functional back cover, flow distribution disc, crescent plate, sealing bar and other parts, with axial and radial pressure compensation design. The gear pump body is integrated with the functional block and has a combination of relief valve, solenoid valve, check valve, shut-off valve and other hair, which can save a lot of space for customers to use. With high working pressure, wide range of speed, low noise, reliable work and other characteristics, mainly used in battery forklifts, internal combustion forklifts, various hydraulic machinery, construction machinery and other hydraulic systems.

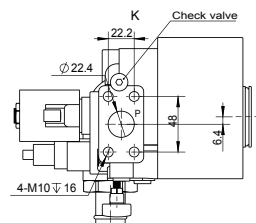
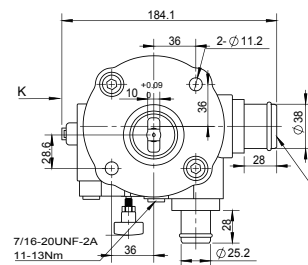
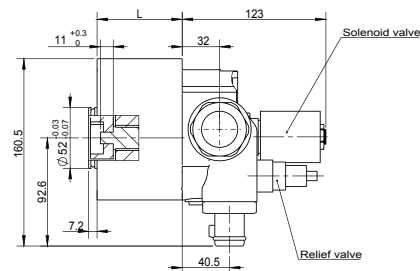
### Code Instruction

VG0L - E \*\* - R B F  
① ② ③ ④ ⑤ ⑥

- ① Production code
- ② Pressure rating E: 16 Mpa
- ③ Nominal displacement
- ④ Direction of rotation R: CW L: CCW
- ⑤ Axial extension form B: Oblate key
- ⑥ Oil port form F: flange type



### Outline Dimensions



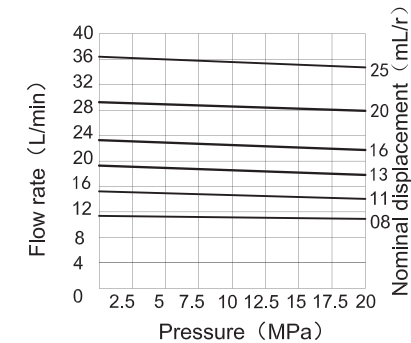
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	L
		Rating	Maximum	Minimum	Maximum		
VG0L-G08	08	16	20	200	3000	92	74
VG0L-G11	11	16	20	200	3000	92	80
VG0L-G13	13	16	20	200	3000	92	84
VG0L-G16	16	16	20	200	3000	92	90
VG0L-G20	20	16	20	200	3000	92	98
VG0L-G25	25	16	20	200	3000	92	108

### Characteristic curve

Flow pressure characteristics:

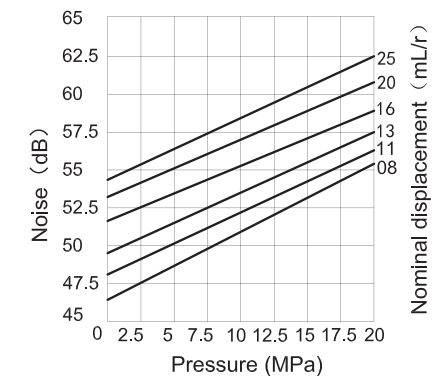
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



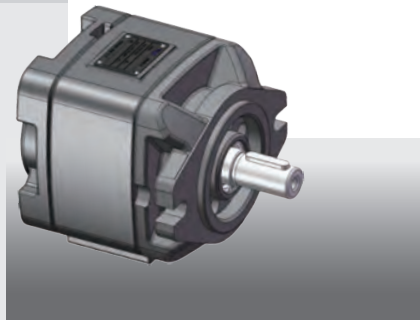
## VG1 Series

Internal gear pump is composed of pump body, inner gear ring, gear shaft, front cover, rear cover, valve plate, crescent plate, sealing rod and other parts. The front and rear cover and pump body are of high strength cast iron structure and are designed with axial and radial pressure compensation. It has the characteristics of high working pressure, wide speed range, low noise and reliable operation. It is mainly used in the hydraulic system of injection molding machine, die casting machine and other machinery.

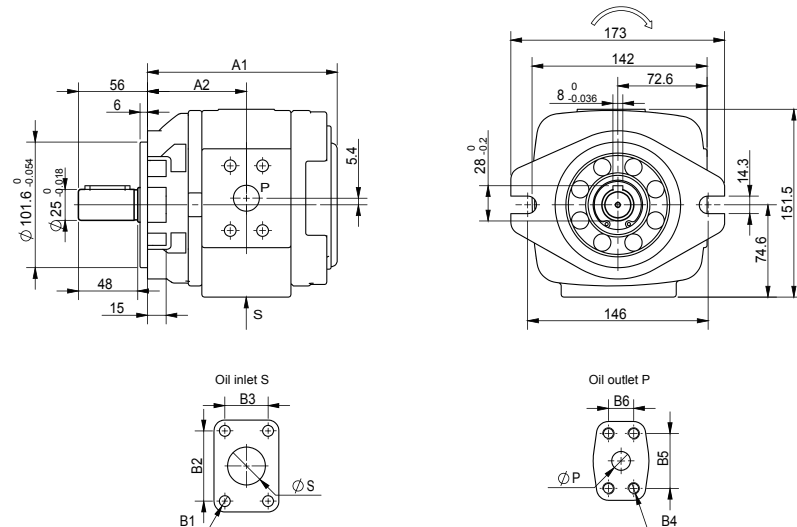
### Code Instruction

**VG1 - G \*\* - R P F**  
① ② ③ ④ ⑤ ⑥

- ① Product code
- ② Pressure rating      G: 31.5 MPa
- ③ Nominal displacement
- ④ Directional of rotation    R: CW    L: CCW
- ⑤ Axial extension form      P: flat key
- ⑥ Oil port type:              F: flange type



### Outline Dimensions



### Performance Parameter

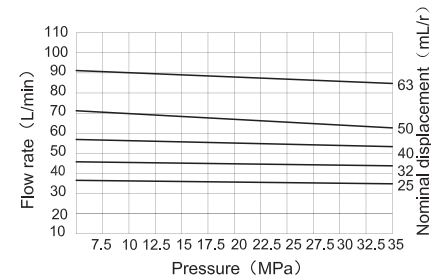
Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
		Rating	Maximum	Minimum	Maximum			
VG1-G25	25	31.5	35	200	3000	92	73	139
VG1-G32	32	31.5	35	200	3000	92	76	146
VG1-G40	40	31.5	35	200	3000	92	80	153
VG1-G50	50	31.5	35	200	3000	92	85	163
VG1-G63	63	31.5	35	200	3000	92	92	177

Code	Nominal displacement (mL/r)	S	B1	B2	B3	P	B4	B5	B6
VG1-G25	25	Φ32	M10*17	58.7	30.2	Φ18	M10*17	47.6	22.2
VG1-G32	32								
VG1-G40	40								
VG1-G50	50								
VG1-G63	63					Φ20		52.4	26.2

### Characteristic curve

Flow pressure characteristics:

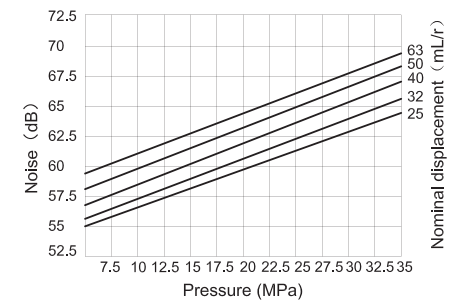
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55°C



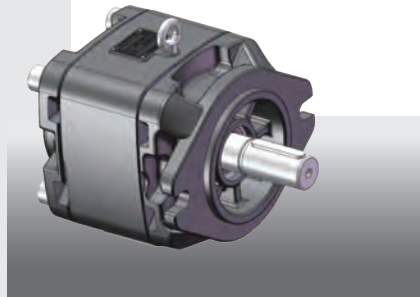
## VG2 Series

Internal gear pump is composed of pump body, inner gear ring, gear shaft, front cover, rear cover, valve plate, crescent plate, sealing rod and other parts. The front and rear cover and pump body are of high strength cast iron structure and are designed with axial and radial pressure compensation. It has the characteristics of high working pressure, wide speed range, low noise and reliable operation. It is mainly used in the hydraulic system of injection molding machine, die casting machine and other machinery.

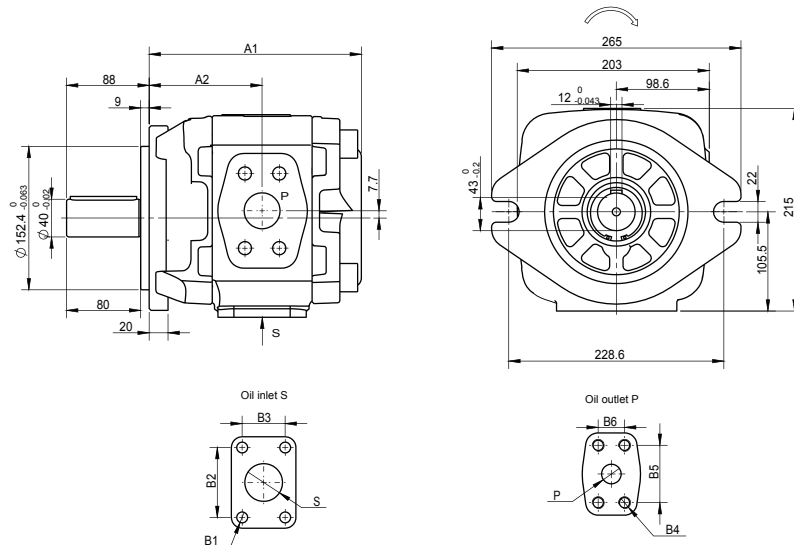
### Code Instruction

**VG2 - G \*\*\*-R P F**  
① ② ③ ④ ⑤ ⑥

- ① Product Code
- ② Pressure rating           G: 31.5 MPa
- ③ Nominal displacement
- ④ Directional of rotation   R: CW L:CCW
- ⑤ Axial extension form     P: flat key
- ⑥ Oil port type             F: flange type



### Outline Dimensions



### Performance Parameter

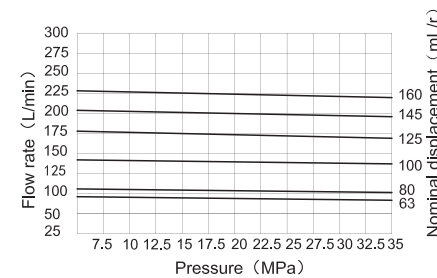
Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
		Rating	Maximum	Minimum	Maximum			
VG2-G063	63	31.5	35	200	3000	92	105.5	196
VG2-G080	80	31.5	35	200	3000	92	109	204
VG2-G100	100	31.5	35	200	3000	92	114	216
VG2-G125	125	31.5	35	200	3000	92	120	225
VG2-G145	145	31.5	35	200	3000	92	124.5	235.5
VG2-G160	160	31.5	35	200	3000	92	129	243

Code	Nominal displacement (mL/r)	S	B1	B2	B3	P	B4	B5	B6
VG2-G063	63	Φ40	M12*20	69.9	35.7	Φ23	M10*17	52.4	26.2
VG2-G080	80	Φ51		77.8	42.9	Φ32	M12*20	69.9	35.7
VG2-G100	100			M16*25	88.9	50.8	Φ38	M16*25	79.4
VG2-G125	125	Φ63.5	106.4		61.9				
VG2-G145	145					Φ76			
VG2-G160	160								

### Characteristic curve

Flow pressure characteristics:

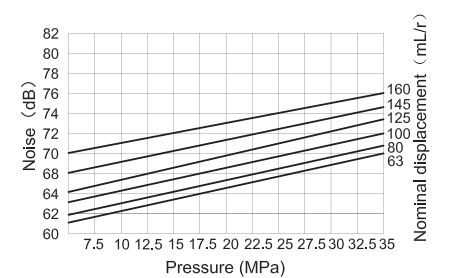
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55℃



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55℃



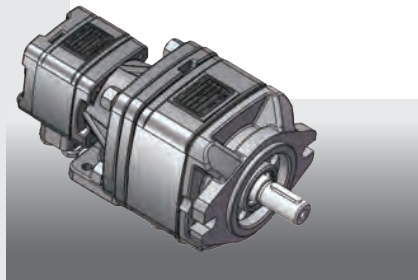
## VG10 Series

The internal meshing duplex gear pump consists of pump body, inner gear ring, gear shaft, spline coupling, front cover, intermediate, back cover, flow distribution plate, crescent plate, sealing bar and other components. It adopts floating spline coupling type structure, and the rotating shaft is connected in series to play the role of front and rear self-centering. Internal axial and radial pressure compensation design, with high working pressure, wide speed range, low noise, reliable work and other characteristics. The combination is flexible and convenient, and the front and rear displacements of the same series can be combined at will. The rear pump can be rotated 180°, which can flexibly change the position of the inlet and outlet oil direction. Share a drive, greatly reducing the cost of equipment. Reduce installation space. Mainly used in the hydraulic system of injection molding machine, die-casting machine and other machinery.

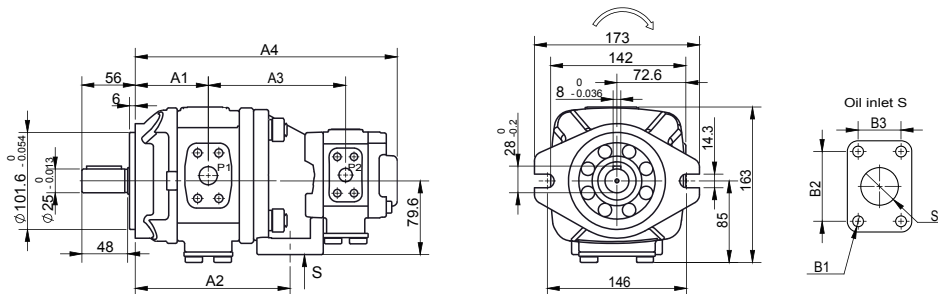
### Code Instruction

**VG10 - G \*\*-\*\*- R P F**  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Product Code
- ② Pressure rating                    G: 31.5 MPa
- ③ Front pump rate
- ④ Rear pump rate
- ⑤ Direction of rotation            R: CW L: CCW
- ⑥ Axial extension form            P: flat key
- ⑦ Oil port type                      F: flange type



### Outline Dimensions



### Performance Parameter

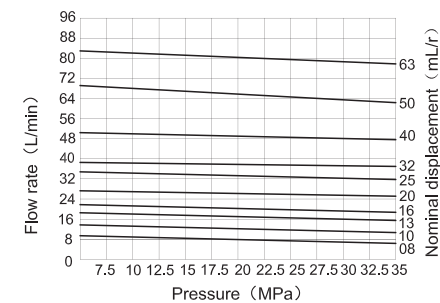
Front Code	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
	Rating	Maximum	Minimum	Maximum			
VG10-G25-*	31.5	35	200	3000	92	73	153
VG10-G32-*	31.5	35	200	3000	92	76	160
VG10-G40-*	31.5	35	200	3000	92	80	167
VG10-G50-*	31.5	35	200	3000	92	85	177
VG10-G63-*	31.5	35	200	3000	92	92	191

Front Code	Rear Code												S	B1	B2	B3
	8		10		13		16		20		25					
	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4				
VG10-G25-*	73	264	140	268	143	275	146	280	150	288	154	296	51	M12*20	69.9	35.7
VG10-G32-*	76	271	144	275	147	282	150	287	154	295	158	303				
VG10-G40-*	80	278	147	282	150	289	153	294	157	302	161	310				
VG10-G50-*	85	288	152	292	155	299	158	304	162	312	166	320				
VG10-G63-*	92	302	159	306	162	313	165	318	169	326	173	334				

### Characteristic curve

Flow pressure characteristics:

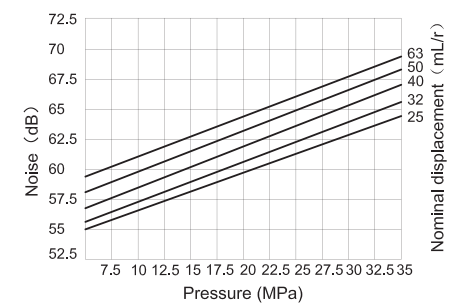
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



## VG21 Series

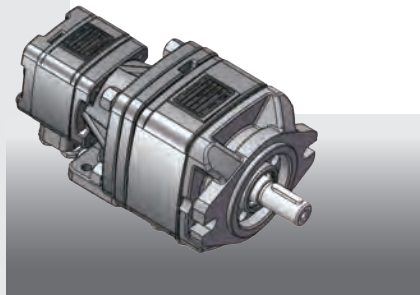
The internal meshing duplex gear pump consists of pump body, inner gear ring, gear shaft, spline coupling, front cover, intermediate, back cover, flow distribution plate, crescent plate, sealing bar and other components. It adopts floating spline coupling type structure, and the rotating shaft is connected in series to play the role of front and rear self-centering. Internal axial and radial pressure compensation design, with high working pressure, wide speed range, low noise, reliable work and other characteristics. The combination is flexible and convenient, and the front and rear displacements of the same series can be combined at will. The rear pump can be rotated 180°, which can flexibly change the position of the inlet and outlet oil direction. Share a drive, greatly reducing the cost of equipment. Reduce installation space. Mainly used in the hydraulic system of injection molding machine, die-casting machine and other machinery.

### Code Instruction

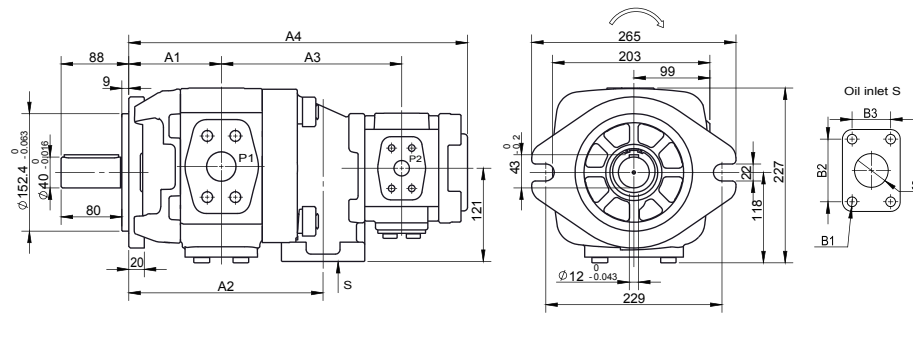
**VG21 - G \*\*-\*R P F**

① ② ③ ④ ⑤ ⑥ ⑦

- ① Product Code
- ② Pressure rating                      G: 31.5 MPa
- ③ Front pump rate
- ④ Rear pump rate
- ⑤ Direction of rotation              R: CW    L: CCW
- ⑥ Axial extension form              P: flat key
- ⑦ Oil port type                         F: flange type



### Outline Dimensions



### Performance Parameter

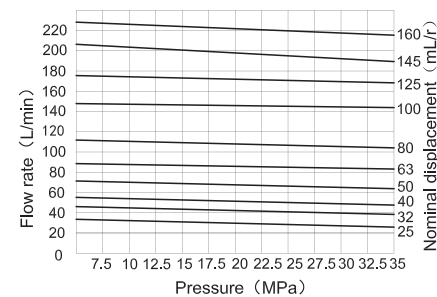
Front Code	Pressure (MPa)		Speed (r/min)		Volumetric efficiency (≥%)	A2	A1
	Rating	Maximum	Minimum	Maximum			
VG21-G063-*	31.5	35	200	3000	92	105	223
VG21-G080-*	31.5	35	200	3000	92	109	231
VG21-G100-*	31.5	35	200	3000	92	114	240
VG21-G125-*	31.5	35	200	3000	92	120	252
VG21-G145-*	31.5	35	200	3000	92	124.5	261
VG21-G160-*	31.5	35	200	3000	92	129	270

Front Code	Rear Code										S	B1	B2	B3
	25		32		40		50		63					
	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4				
VG21-G063-*	200	372	204	379	207	386	212	396	219	410	76	M16*25	106.4	61.9
VG21-G080-*	204	380	208	387	211	394	216	404	223	418				
VG21-G100-*	209	389	212	396	216	403	221	413	228	427				
VG21-G125-*	215	401	218	408	222	415	227	425	234	439				
VG21-G145-*	220	410	223	417	227	424	232	434	239	448				
VG21-G160-*	224	419	227	426	231	433	236	443	243	457				

### Characteristic curve

Flow pressure characteristics:

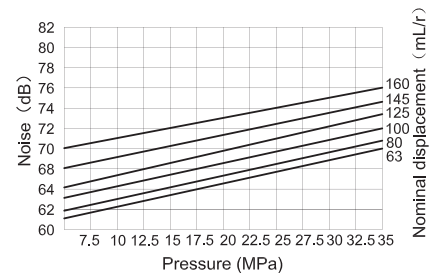
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



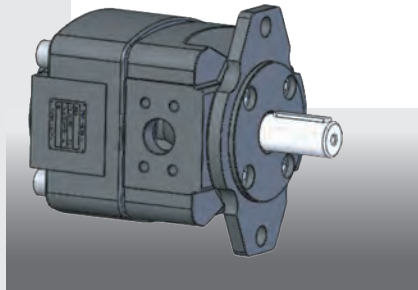
## VG2D Series

The internal four quadrant gear pump consists of pump body, inner gear ring, gear shaft, front cover, back cover, flow distribution disc, crescent plate, seal bar and other components. The front and rear covers and pump body are constructed of high-strength cast iron and designed with axial and radial pressure compensation. The VG2D series drive unit can be used in open or closed loop hydraulic circuits, either as a pump or as a motor. The unit is used as a pump when the load rises, and reverses as a motor when the load falls, allowing for energy recovery. It is mainly used in hydraulic systems for injection molding machines, hydraulic presses, scrap compactors, die casting machines, and other machinery.

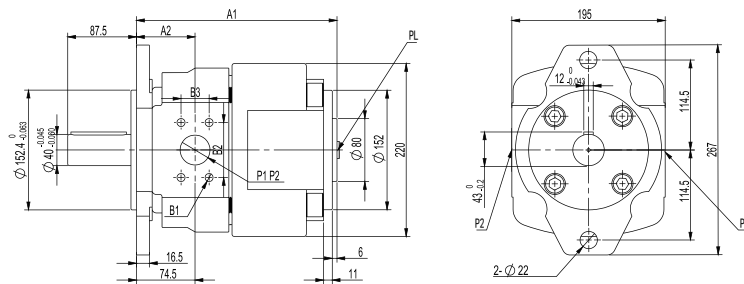
### Code Instruction

**VG2D - F \*\* - S P F**  
① ② ③ ④ ⑤ ⑥

- ① Product Code
- ② Pressure rating F: 21MPa
- ③ Nominal displacement
- ④ Direction of rotation S: Bi-directional
- ⑤ Axial extension form P: flat key
- ⑥ Oil port type: F: flange type



### Outline Dimensions



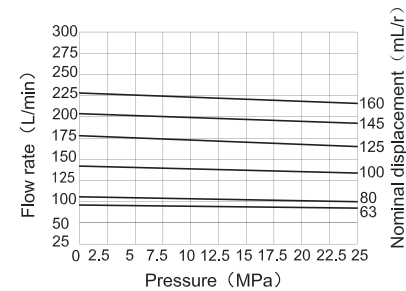
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)		Speed (r/min)		A2	A1	P1P2	B1	B2	B3	PL
		Rating	Maximum	pump	motor							
VG2D-G063	63	21	25	2250	4000	105.5	196	Φ47	M12*20	69.9	35.7	G3/8"
VG2D-G080	80	21	25	2250	4000	109	204					
VG2D-G100	100	21	25	2050	4000	114	216					
VG2D-G125	125	21	25	1800	4000	120	225					
VG2D-G145	145	21	25	1600	3500	124.5	235.5					
VG2D-G160	160	21	25	1600	3500	129	243	Φ56	M16*25	106.4	61.9	G1/2"

### Characteristic curve

Flow pressure characteristics:

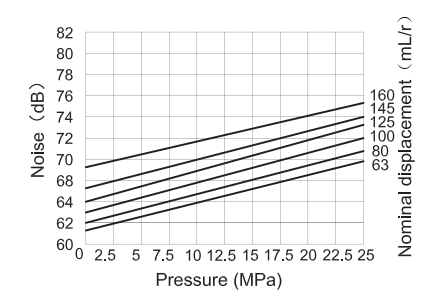
Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 C



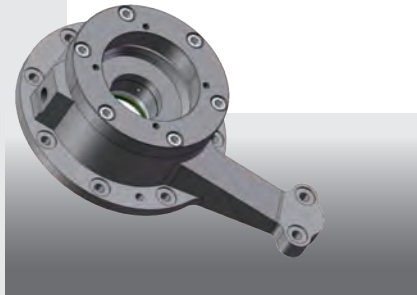
## CBIX Series

CBIX internal meshing lubrication gear pump is composed of bracket, shell, gear ring, gear, end cover and other components, with simple structure and reliable operation. Mainly used in engineering machinery, agricultural machinery, machine tool industry and other lubrication system transport oil.

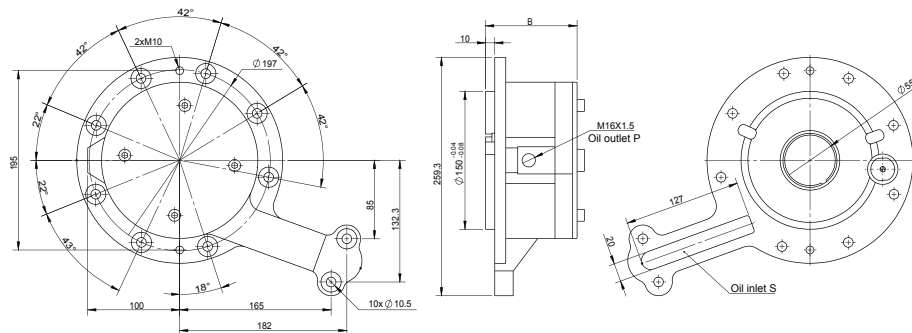
### Code Instruction

**CBIX** - **B** **\*\*** - **R** **P** **L**  
 ① ② ③ ④ ⑤ ⑥

- ① Product Code
- ② Pressure Rating                      B: 0.4 MPa
- ③ Nominal displacement
- ④ Directional of rotation              R: CW L: CCW
- ⑤ Axial extension form                P: flat key
- ⑥ Oil port type                         L: thread



### Outline Dimensions



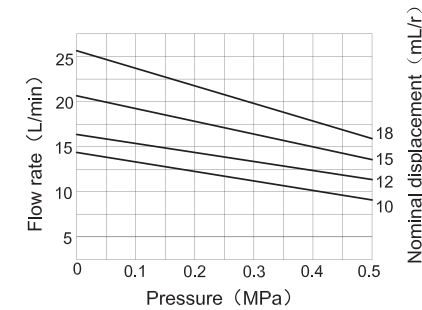
### Performance Parameter

Code	Nominal displacement (mL/r)	Pressure (MPa)	Speed (r/min)		B
			Minimum	Maximum	
CBIX-10	10	0.4	600	2600	88.1
CBIX-12	12				90.7
CBIX-15	15				94.5
CBIX-18	18				98.3

### Characteristic curve

Flow pressure characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 °C



### Noise curve

Pressure noise characteristics:

Test condition: n=1450r/min V=46mm<sup>2</sup>/s t=55 °C

