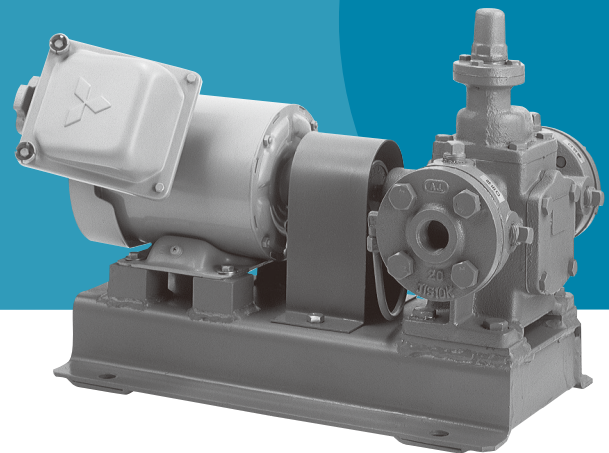


Oil pumps

GPLII/GPMII

TERAL

50Hz/60Hz



TERAL INC.

Applications

- For transfer of various fuel oils
- For lubrication of various machines
- For transfer of various viscous solutions

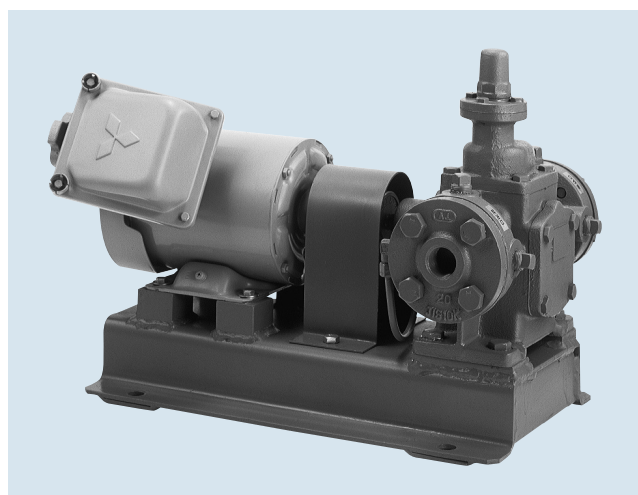
Features

- ① As the gear is a one-point continuous contact and segmental gear, no liquid is trapped and neither high pressure nor high vacuum is generated, resulting in no noise or vibration.
- ② The bearing requires no lubrication because of a two-point support structure of a needle bearing and an internal plain bearing and forced self-lubrication.
- ③ As a mechanical seal is used for the shaft seal part, no liquid leak or air suction occurs.
- ④ As the pump has a built-in safety valve, abnormal pressure does not rise.

Description of types

② GPLII - 25 VT

- ① Model ③ Nominal suction/discharge diameter (25mm)
 ② Head type L: Low head ④ Internal code
 M: High head



* Please note that the paint color, etc. of the actual unit may partially differ from the photo.

Standard specifications/Special specifications

— : Not available

Pumping liquid *1	Liquid quality	Kerosene, light oil, heavy oil A	
	Viscosity	1.2 - 20mm ² /s	
	Liquid temperature	0 - 80°C	
Total suction head (In case of 20°C)		— 5m	
Allowable positive pressure		0.10MPa	
Specifications		Standard specifications	Special specifications
Structure	Impeller	Gear	—
	Shaft seal	Mechanical seal	—
	Bearing	Needle bearing	—
Material	Impeller	S45C	—
	Shaft	S45C	—
	Casing	FC200	—
Motor	Efficiency	Standard efficiency (equivalent to IE1)	—
	Starting method	Direct-on-Line start	—
	Type	Safety increased explosion-proof outdoor type *2	Totally enclosed fan-cooled type Flameproof enclosures
	Power source	3-phase, 200/200/220V 50/60/60Hz	3-phase, 400/400/440V 50/60/60Hz
	Synchronous rotation speed	1500min ⁻¹ /1800min ⁻¹	—
Piping connection		Screwed type: 15mm Flange type, JIS10K standard: 20-50mm	—
Painting	Paint color	Munsell 5BG4/1 approximate color	Specified color for outer surface
	Painting type	TERAL standard painting	Salt-resistant paint Heavy-duty salt-resistant paint

* Please note that in case of special specifications, the assembly drawing, etc., may differ from the standard drawing.

*1 Please contact us for heavy oil B/C, turbine oil, and special purpose lubricating oil, etc.

*2 The motor is designed for both outdoor and indoor use.

Standard accessories

Common base	1	Coupling	1 set
Safety valve	1	Coupling guard	1
Companion flange (20mm or more)	2 sets		

*Standard accessories are included in the product components.

Special accessories

Sluice valve, check valve	Vibration isolation joint
Pressure gauge, compound gauge	Anchor bolt
Strainer (Y-shaped, single, double)	

Specification table

● GPLII

Bore diameter mm	Type	Output kW	1500min ⁻¹ (50Hz)		1800min ⁻¹ (60Hz)	
			Discharge pressure MPa	Discharge rate L/min	Discharge pressure MPa	Discharge rate L/min
20(¾)	GPL II -20VT	0.4	0.3	29	0.3	35
25(1)	GPL II -25VT	0.75	0.3	46	0.3	55
32(1¼)	GPL II -32VT	1.5	0.3	67	0.3	80
40(1½)	GPL II -40VT	2.2	0.3	105	0.3	125
50(2)	GPL II -50VT	3.7	0.3	155	0.3	185

Note) The guaranteed viscosity for power and capacity is 3 - 5mm²/s

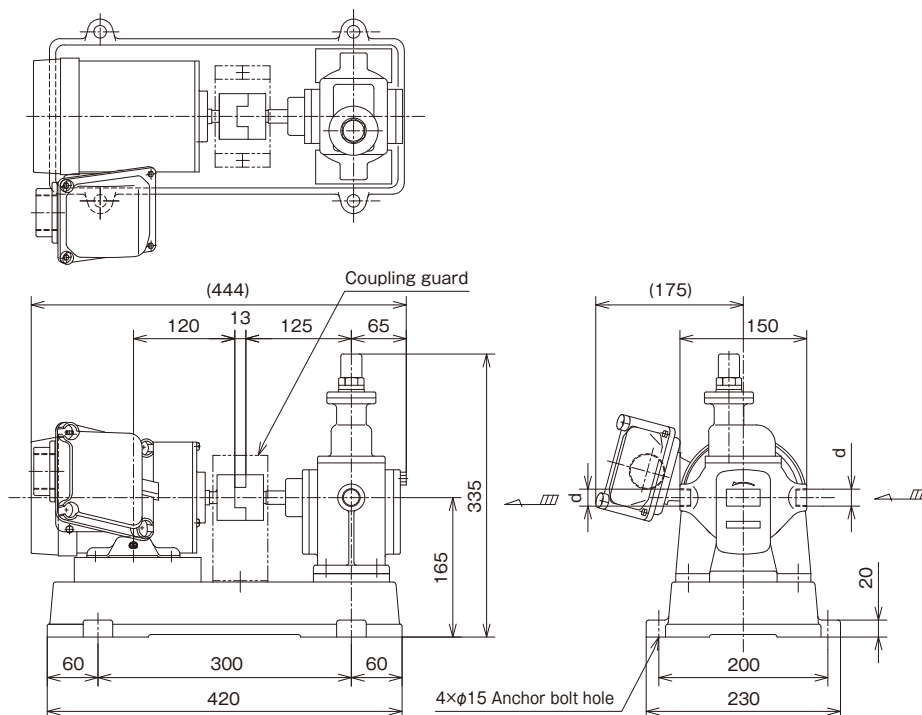
● GPMII

Bore diameter mm	Type	Output kW	1500min ⁻¹ (50Hz)		1800min ⁻¹ (60Hz)	
			Discharge pressure MPa	Discharge rate L/min	Discharge pressure MPa	Discharge rate L/min
15(½)	GPM II -15VT	0.4	0.4~0.5	14	0.4~0.5	17
20(¾)	GPM II -20VT	0.75	0.4~0.5	26	0.4~0.5	32
25(1)	GPM II -25VT	1.5	0.4~0.5	42	0.4~0.5	50
32(1¼)	GPM II -32VT	2.2	0.4~0.5	63	0.4~0.5	75
40(1½)	GPM II -40VT	3.7	0.4~0.5	100	0.4~0.5	120
50(2)	GPM II -50VT	5.5	0.4~0.5	150	0.4~0.5	180

Note) The guaranteed viscosity for power and capacity is 3 - 5mm²/s

Assembly drawing

●Nominal diameter 15mm



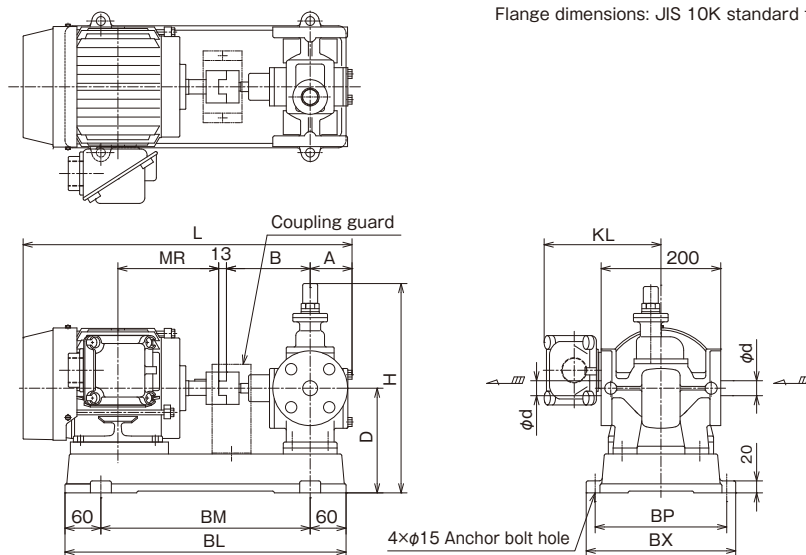
Dimensions

Nominal diameter d	Type	Output kW	Approx. mass kg
Rc $\frac{1}{2}$	GPMII-15VT	0.4	31

Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

Assembly drawing

●Nominal diameter 20 - 25mm



Flange dimensions: JIS 10K standard type or equivalent

Dimensions

(Unit: mm)

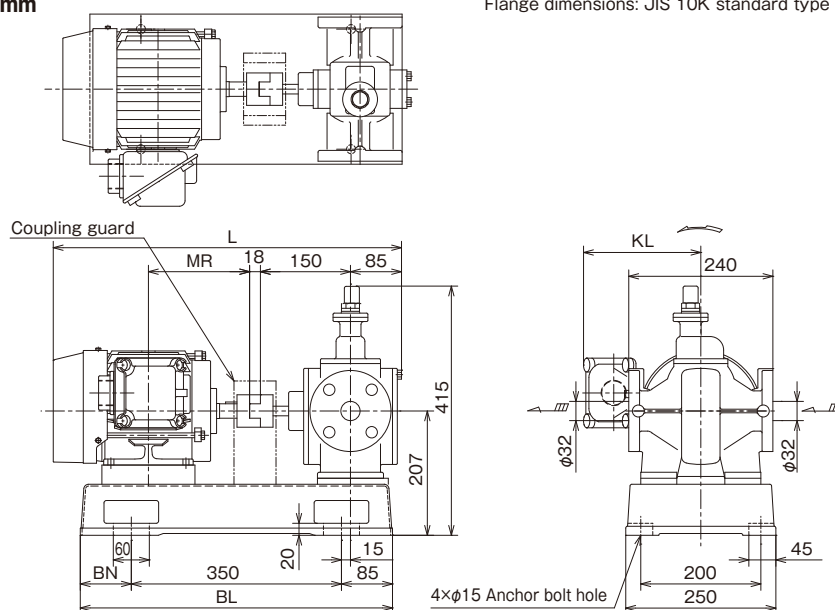
Nominal diameter d	Type	Output kW	A	B	D	H	L	KL	MR	BL	BM	BP	BX	Approx. mass kg
20	GPLII-20VT	0.4	65	125	165	335	444	175	120	420	300	200	230	33
	GPMII-20VT	0.75	65	125	165	335	476	181	140	420	300	200	230	40
25	GPLII-25VT	0.75	70	140	175	350	496	181	140	470	350	220	250	44
	GPMII-25VT	1.5	70	140	175	350	550	195	169	470	350	220	250	52

Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

Assembly drawing

●Nominal diameter 32mm

Flange dimensions: JIS 10K standard type or equivalent



Dimensions

(Unit: mm)

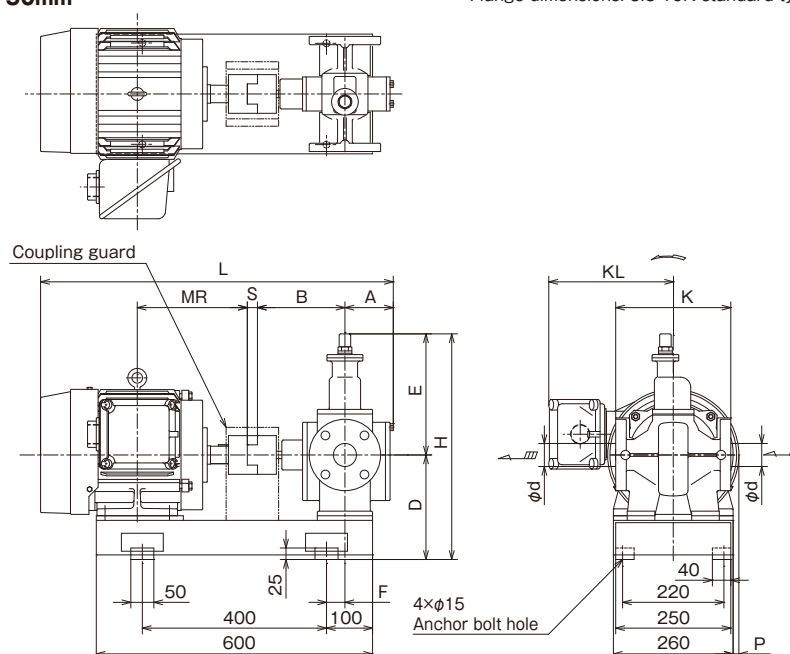
Type	Output kW	L	KL	MR	BL	BN	Approx. mass kg
GPLII-32VT	1.5	580	195	169	520	85	59
GPMII-32VT	2.2	619	210	193	535	100	66

Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

Assembly drawing

●Nominal diameter 40 - 50mm

Flange dimensions: JIS 10K standard type or equivalent



Dimensions

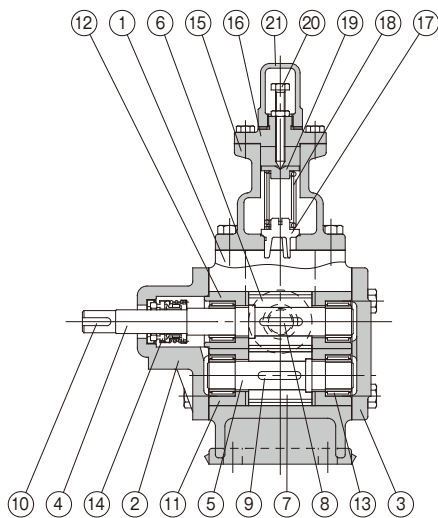
(Unit: mm)

Nominal diameter d	Type	Output kW	A	B	D	E	F	H	K	L	P	S	KL	MR	Approx. mass kg
40	GPLII-40VT	2.2	85	160	207	228	35	435	240	629	—	18	210	193	78
	GPMII-40VT	3.7	85	160	207	228	35	435	240	646	—	18	227	200	92
50	GPLII-50VT	3.7	105	190	227	273	30	500	250	700	—	22	227	200	102
	GPMII-50VT	5.5	105	190	227	273	40	500	250	766	12.5	22	271	239	124

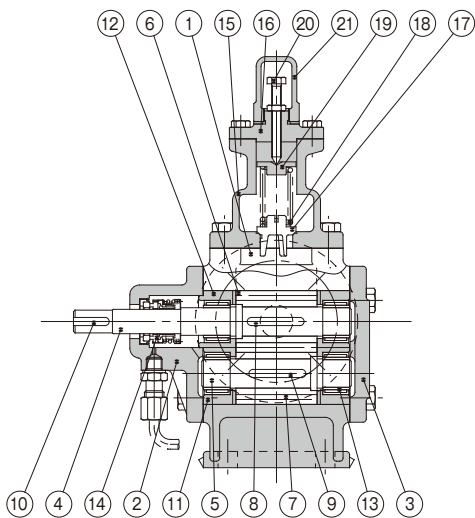
Note) Total length dimension, approximate mass and terminal box position may be slightly different depending on motor manufacturer.

■ Example of sectional drawing

● Nominal diameter 15mm



● Nominal diameter 20 - 25mm



■ Parts list

No.	Part name	Qty	Material
1	Casing	1	FC200
2	Gland case	1	FC200
3	Side cover	1	FC200
4	Main drive shaft	1	S45C
5	Driven shaft	1	S45C
6	Main drive gear	1	S45C
7	Driven gear	1	S45C
8	Key	1	S50C
9	Key	1	S50C
10	Key	1	S50C
11	Housing	3	CAC603

Note) The materials in the table above may be equivalents.

No.	Part name	Qty	Material
12	Housing	1	CAC603
13	Needle bearing	4	SUJ2
14	Mechanical seal	1	Ceramic vs Carbon
15	Relief valve body	1	FC200
16	Relief valve cover	1	FC200
17	Relief valve	1	CAC403
18	Relief valve spring	1	SWPA
19	Spring retainer	1	SS400
20	Adjusting screw	1	SS400
21	Cap	1	FC200

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TERAL INC.

Head Office 230, Moriwake, Miyuki-cyo, Fukuyama-city, Hiroshima, 720-0003, Japan
Tel.+81-84-955-1111 Fax.+81-84-955-5777
www.teral.net

Teral Asia Limited

Room 1001,10/F, Olympia Plaza, 255 King's Road, North Point, Hong Kong
Tel.+852-2571-0935 Fax.+852-2571-0619

TERAL THAI CO.,LTD.

150 Moo 16 Udomsoraryuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel.+66-3535-2148-9 Fax.+66-3535-2150

TERAL TRADING & SERVICE CO.,LTD.

150 Moo 16 Udomsoraryuth Rd., T.Bangkrasan, A.Bangpa-In, Ayutthaya 13160 Thailand
Tel.+66-3535-2145-7 Fax.+66-3535-8549

PT.Teral Indonesia Pumps and Fans

Sinpasa Commercial Blok SB No 001
Jl. Boulevar Selatan Summarecon Bekasi
RT.003/RW.005, Kel. Marga Mulya, Kec. Bekasi Utara, Kota Bekasi, Jawa Barat 17142
TEL:+62-21-8949-4116

Teral Vietnam Limited Liability Company

9th Floor, LADECO Building, No. 266 Doi Can Street, Lieu Giai Ward, Ba Dinh District, Hanoi City, Vietnam
Tel.+84-24-393-52-790 Fax.+84-24-393-52-289

Teral General Machine (Shanghai) Co.,Ltd.

No.285, Yuan Qu Road(N), Bei Qiao, Min Hang District, Shanghai 201109, China
Tel.+86-21-6490-9128 Fax.+86-21-6490-9126

Teral Middle East F.Z.C.

1806-002, 18th floor, BB1, Mazaya Business Avenue, JLT, Dubai, UAE. PO Box 414781
Tel.+971-4369 9039

Teral Pumps & Fans North America Ltd.

Suite # 197, 800-15355 24 Ave Surrey, B.C., CANADA V4A 2H9
Tel.+1-604-839-1008

Teral Philippines Inc.

Roof Deck 3, Vernida 1 Building, 120 Amorsolo St., Legaspi Village, Makati City
Tel.+63 2 7717-9314