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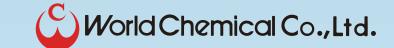


series series

High efficient & big magnet drive pump CHEMIFREE



GT series



"High efficient / performance big magnet drive pump" transfers various chemical liquid or waste water. *Only GT series is possible to be used for

* Only GT series is possible to be used for slurry/sludge.

⟨Use⟩

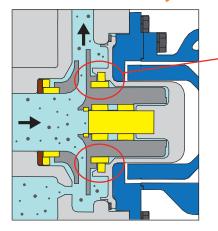
- 1 To circulate or spray liquid for print wiring board or LC.
- 2 To transfer liquid to a chemical tank.
- 3 To transfer liquid with slurry/sludge. (Only GT sereis)
- (4) To transfer various liquid.



⟨Feature⟩

Resistant to slurry/sludge! (Impeller wearing system)





Impeller wearing

The size of permeable slurry to the rear casing by the impeller wearing is only less than 0.127 mm!

The abrasion of the shaft and bearing is prevented at a maximum!

Sludge transfer assessment test

A mechanical seal pump user, who replaces the mechanical seal once a week for sludge, could use the pump for nine months



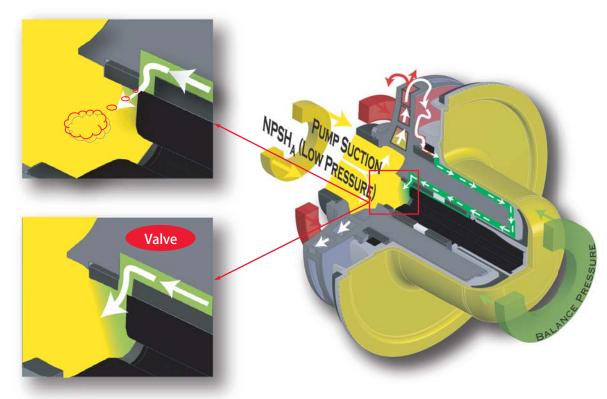


Carbon slurry The impeller was abraded severely by slurry.

The damage of the impeller magnet can is almost nothing for the wearing.

• High efficiency, Energy saving! (Thrust balance system)





- Long life of sliding parts
- High efficiency for the motor load reduction

When the impeller moves to the suction side at the start of pump, the ditch (valve) on the bearing is opened and abrasion is reduced to keep the balance of positive/negative pressure constant.

Chemical-resistant improvement (Impeller can/Double capsule system)





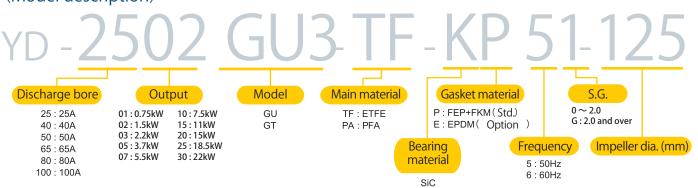
Suitable for pervious liquid The double structure of the impeller magnet can prevents corrosion and expansion of the inner magnet by liquid penetration.

The inner magnet is firstly lined by stainless steel and then secondly by corrosive-resistant plastic.

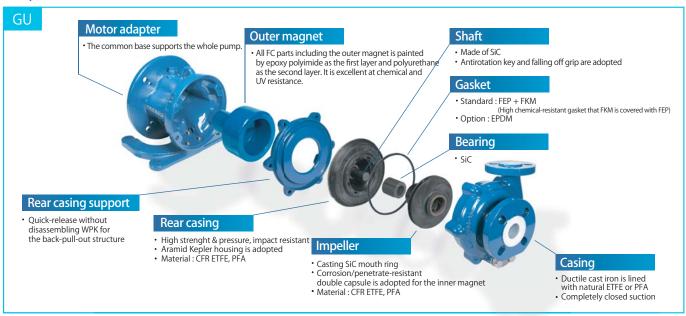
GU/GTseries

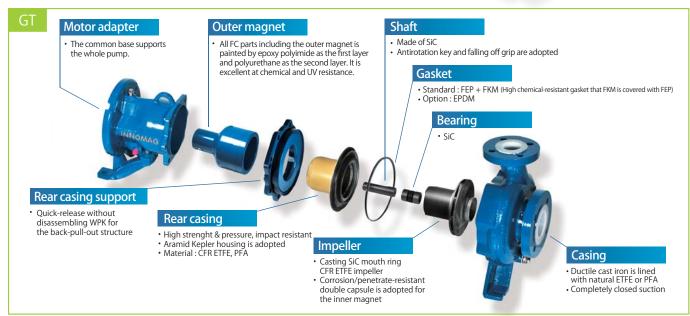






⟨Exploded view⟩





Impeller







The product is list controlled by Japanese government. When exporting, should be permitted by Minister of Economy, Trade and Industry on the basis of Export Trade Control Order

⟨Standard specification⟩

ETFE PFA

(S.G.1.0)

Madal	Bore (mm)		put	50Hz	60Hz	Weight
Model				Max. head - Max. capacity	Max. head - Max. capacity	(kg)
	Suc.	Dis.	(kW)	(m) — (L/min)	(m) — (L/min)	
YD-2501GU3	40	25	0.75	15.9 - 2 80	15—280	43.5
YD-2502GU3			1.5	19.6 — 310	17.2 — 300	49.5
YD-2503GU3			2.2	27.5 — 370	26.5-360	54
YD-2505GU3			3.7	32-390	40.8 — 440	66
YD-4001GU3	50	40	0.75	13.0 — 330	17.0 — 370	48.5
YD-4002GU3			1.5	22.6 — 480	22.9-430	54.5
YD-4003GU3			2.2	27.0 - 5 30	27.9—480	59
YD-4005GU3			3.7	33.1—550	36-580	71
YD-4007GU3			5.5		48.8-660	94
YD-4010GU3			7.5		40.0 -000	98
YD-5005GU3	65	50	3.7	26.7 — 800	25.2-790	77
YD-5007GU3			5.5	31.1—850	36.4-930	100
YD-5010GU3			7.5		46-1030	104

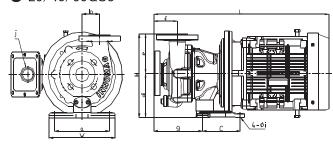
GT FTFF

G EIFE						(S.G.1.0
Model	Rore	(mm)	Out	50Hz	60Hz	Weight
	DOIE	Bore (mm)		Max. head - Max. capacity	Max. head - Max. capacity	
	Suc.	Dis.	(kW)	(m) — (L/min)	(m) - (L/min)	(kg)
YD-4005GT3	50	40	3.7	34.2-520	31.9-510	86
YD-4007GT3			5.5	- 38.5 — 550	47—610	109
YD-4010GT3			7.5		56.7—660	113
YD-5005GT3	65	50	3.7	24.5 — 800	25.4—790	89
YD-5007GT3			5.5	37.1—920	36.4-930	112
YD-5010GT3			7.5		45.6—1020	116
YD-4107GT3		40	5.5	38.2-480	38.6 — 490	135
YD-4110GT3			7.5	52.1—550	48.7—540	139
YD-4115GT3	50		11	64.5—610	64.3-620	174
YD-4120GT3			15		85.6—700	185
YD-4125GT3			18.5		94.6 — 740	196
YD-5107GT3		50	5.5	32-590	36.8-500	140
YD-5110GT3			7.5	42.5—780	40.4 — 780	144
YD-5115GT3	65		11	57.6—880	54.6—880	179
YD-5120GT3			15	62.8-930	71.2—990	190
YD-5125GT3			18.5		79.5—1040	203
YD-6507GT3-N		65	5.5	30-1100	35.4—860	130
YD-6510GT3-N			7.5	36.8—1210	38.5—1240	134
YD-6515GT3-N	80		11	43-1270	50.6—1420	165
YD-6520GT3-N			15		59.5 — 1500	176
YD-6525GT3-N			18.5		63.3-1530	189
YD-8007GT3	100	80	5.5	25.8 1900	_	199
YD-8010GT3			7.5	33-2000	_	203
YD-8015GT3			11	40.8-2190	41.3-2310	238
YD-8020GT3			15	49.5—2390	52.4 2430	249
YD-8025GT3			18.5	53.1—2480	60.4 2530	262
YD-8030GT3			22	59.9 — 2650	67.7 — 2630	345
YD-10015GT3		125	11	18-4310	21.5—2720	308
YD-10020GT3			15	23.9 — 4750	21.5—4600	319
YD-10025GT3	150		18.5	25.1—4870	26.5-5030	332
YD-10030GT3			22		32.2-5340	415
YD-10040GT3			30		36.8-5840	455

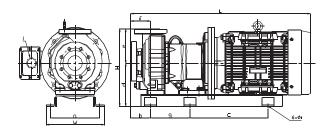


⟨Outeline⟩

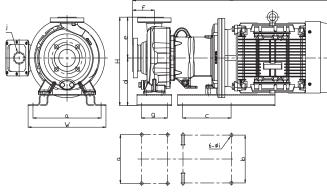
• 25/40/50GU3



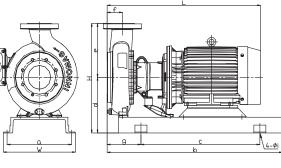
● 65GT3-N



• 40/41/50/51GT3



● 80/100GT3



(Dimention)

Bore (mm) Output Model Н φi g Dis (kW) Suc. YD-2501GU3 485 0.75 522 YD-2502GU3 1.5 254 114 203 59 140 140 80 174 14 25 245 40 551 YD-2503GU3 2.2 295 580 155 YD-2505GU3 3.7 PF3/4 YD-4001GU3 0.75 487 YD-4002GU3 1.5 524.5 YD-4003GU3 2.2 50 40 245 295 553.5 203 65 140 155 140 87 181 14 3.7 587 YD-4005GU3 5.5/7.5 647.5 PF1 1/2 YD-4007/4010GU3 3.7 PF3/4 YD-5005GU3 580 65 50 245 315 203 140 155 160 80 174 5.5/7.5 640.5 PF1 1/2 YD-5007/5010GU3 YD-4005GT3 3.7 625 PF3/4 40 360 370 315 311 224 160 80 120 50 210 15 YD-4007/4010GT3 5.5/7.5 673.5 PF1 1/2 YD-5005GT3 3.7 625 PF3/4 50 315 65 360 370 311 224 210 160 80 120 15 673.5 PF1 1/2 YD-5007/5010GT3 5.5/7.5 YD-4107/4110GT3 5.5/7.5 741.5 YD-4115/4120GT3 11/15 50 40 360 390 315 311 224 210 180 80 120 15 PF1 1/2 895 YD-4125GT3 18.5 YD-5107/5010GT3 5.5/7.5 761.5 YD-5115/5020GT3 11/15 65 50 360 390 311 224 210 180 100 120 15 315 915 18.5 YD-5125GT3 YD-6507/6510GT3-N 5.5/7.5 764.5 65 375 102 400 165 102 200 15 PF1 1/2 YD-6515/6520GT3-N 11/15 80 296 210 248 918 YD-6525GT3-N 18.5

764.5

918

918

943.5

943.5

1021.5

430

430

505

697

480

480

830

930

1167

540

600

792

280

354

225

343

PF1 1/2

PF1 1/2

PF1 1/2

PF3

PF1 1/2

PF1 1/2

PF3

PF3

170

225

100

102

Installation / piping precaution YD-GU / GT series

1) Installation precaution

- ① If large amount of air enters during operation, it cause damage for pumping failure.
- Set the height from the pump suciton to liquid leve in a tank 50 cm and more.
- Do not pipe up and down that the air stays in the suciton pipe.
- Install the suction pipe on the up 1/100 and more grade tot the pump.
- Use the suction pipe whose bore is bigger than the pump's one. If different, use the reducer and pipe the top horizontally.
- 2 Install the strainer at the suction inlet to prevent dirt and foreign objects. However, clean th strainer periodically not to be clogged and minimize the loss resistance.
- ③ In the event of the followings, it is recommended to install check valves on the rising piping at the discharge side to prevent water hammer. Moreover, install the bypass for air release underneath.
- When th discharge pipe is long or the head is 10 m and more.
- Whne the end of the discharge pip is 9 m and more higher than the liquid level in the suction tank.
- When two and more pumps are used in parallel.
- 4 Install any bending or expansion joints on the pipes not to leak liquid by the pump deformation, because the pipes are expanded by the heat depending on the liquid temperature.
- 5 The main parts inside of the pump are made of plastic, so be carefully not have an impact.

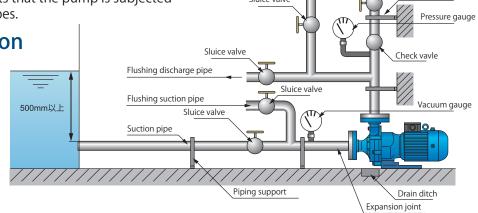
2) No uneven and over tightening of the pump flange

- ① Make the pipe and pump flange level and be careful not to tighten bolts too much.
- ② When piping, fit the bolt positin of the pump and pipe flange directly. If not, it may damage the pump casing.

3) No piping load

(1) Get the pipe load completely with a piping support.

If the liquid temparature is high (40 degrees and more), install any bending or expansion joints that the pump is subjected to a load by heat expanded pipes.
 Example of installation



Discharge pipe

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YD-8007/8010GT3

YD-8015/8020GT3

YD-8025GT3

YD-8030GT3

YD-10015GT3

YD-10020GT3

YD-10040GT3

YD-10025/10030GT3

7.5

11/15

18.5

22

11

15

18.5/22

30

100

150

80

125