



## 3G series Screw pump:



### Application

It applies to deliver clean and non-corrosive medium which has lubricating capability at temperature below  $\leq 150^{\circ}\text{C}$ , with the viscosity of 5-760cSt, The pump's working pressure normally range from 0.6MPa to 2.5MPa and flow capacity range from 0.6-123m<sup>3</sup>/h.

### Feature

- (1)Medium is delivered in axial direction continuously without agitation and pulsation.
- (2)Small vibration and low noise
- (3)High pressure and high efficiency
- (4)Simple structure, easy disassembly and assembly
- (5)Small volume and light weight
- (6)Slight wear and long life of the pump

Structure: The pumps are sealed generally by mechanical seal and driven by the motor through the claw coupling.

Material: The driving and driven screw 16MnCrS5,40Cr,45,38CrMoALA

Pump casing: HT200,QT450-10,ZCuSn10PI,ZG270-500

### Code explanation

3	G	S	L	100	×2	— 46
Screw number	Screw pump, G,GR,GW,GN	Double section Single section omit	Vertical installation, horizontal omit.	Diameter of drive screw (mm)	Pitch number	Pitch angle (degree)

Series	Main application	Performance scope	
		Capacity m3/h	Pre Mpa
3G	Lub oil visc3-20oE;temp $\leq 80^{\circ}\text{C}$	0.6-570	2.5
3GR	Heavy fuel ill visc3-50oE;temp $\leq 120^{\circ}\text{C}$	0.6-570	2.5
3GR	Light fuel oil visc1.2-5oE;temp $\leq 120^{\circ}\text{C}$	0.6-570	1.6
3GW	High temp fuel heated oil;temp $\leq 150^{\circ}\text{C}$	0.6-363	1.6
3GN	High visa oil 100oE;temp $\leq 80^{\circ}\text{C}$	0.6-636	2.5

Model	Pressure MPa	Capacity Q		Speed (r/min)	NPSH (rm)	Efficiency η %	Motor	
		m <sup>3</sup> /h	L/min				Power (kw)	Model
25×4-46	1.0	0.8	13	1450	4	62	0.75	Y802-4
	2.5	0.6	10			60.6	1.5	Y90L-4
	1.0	2.0	33	2900	4.5	59.4	1.5	Y90S-2
	2.5	1.6	26			69	3	Y100L-2
30×4-46	1.0	1.6	26	1450	4.5	63.5	1.1	Y90S-4
	2.5	1.2	20			61	2.2	Y100L1-4
	1.0	3.6	60	2900	5	60	2.2	Y90L-2
	2.5	3.2	53			69	4	Y112M-2
36×4-46	1.0	2.8	46	1450	4.5	66	2.2	Y100L1-4
	2.5	2.4	40			66.5	4	Y112M-4
	1.0	6.5	108	2900	5	60.5	4	Y112M-2
	2.5	6	100			72	7.5	Y132S2-2
42×4-46	1.0	4.8	80	1450	5	62	4	Y112M-4
	2.5	4.2	70			73	5.5	Y132S1-4
	1.0	10.5	175	2900	5.5	61	5.5	Y132S1-2
	2.5	10	166			72	15	Y160M2-2
45×4-46	1.0	6.3	106	1450	5	70	3	Y100L2-4
	2.5	5.9	99			74	7.5	Y132M-4
	1.0	13.5	225	2900	5.5	60	7.5	Y132S2-2
	2.5	13	217			75	15	Y160M2-2
60×4-46	1.0	15.5	255	1450	5	71.3	11	Y160M-4
	2.5	14.5	245			74	15	Y160L-4
	1.0	32	533	2900	5.5	63	18.5	Y160L-2
	2.5	31.5	525			77	37	Y200L2-2
70×2-46	0.6	24	400	1450	5	71	7.5	Y132M-4
	1.0	23.5	390			75	11	Y160M-4
	1.6	22.5	370			76	15	Y160L-4
70×4-46	1.0	24.5	408	1450	5	72.5	18.5	Y180M-4
	2.5	23.5	392			79	30	Y200L-4
80×2-46	0.6	36.5	608	1450	5	72	11	Y160M-4
	1.0	35	594			75.5	18.5	Y180M-4
	1.6	34.5	575			76.5	22	Y180L-4
80×4-46	1.0	37	617	1450	5.5	72	30	Y200L-4
	2.5	35	590			78.1	45	Y225M-4
100×2-46	0.6	72.5	1208	1450	5	73	22	Y180L-4
	1.0	71	1183			77	37	Y225S-4
	1.6	60.5	1158			79	45	Y225M-4
100×4-46	1.0	72.5	1208	1450	5.5	73	55	Y250M-4
	2.5	70	1165			78.5	75	Y280S-4
S100×3-27	0.6	72	1196	1450	6	62	22	Y180L-4
	1.6	70	1160			72	55	Y250M-4
	2.5	69	1145			74	75	Y280S-4
S120×3-27	0.8	123	2055	1450	6	74.5	55	Y250M-4
	1.5	120	2010			76	90	Y280M-4
	2.5	115	1920			78.5	132	Y315M-4

Note: electric motor normally adopted 380V, 3 Phase, 50 Hz, if any change pleased be informed.

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