

PRODUCT SPECIFICATIONS

MODEL: SGY

CIRCULAR ARC GEAR PUMP



FEATURE

- It is used in hydraulic system to deliver non-corrosiveness lubrication oil at temperature below 80°C or equivalent liquid without solid particles and fibers and with the viscosity of 5~1500cSt. Stainless steel material pump can be used to transfer food oil and corrosive liquid.

STURCTURE

- The gears of SGY series gear pump adopt a new double-arc sinusoidal tooth profile with international advanced technology. Compared with the involute gear, the most prominent advantage is that the tooth profile has no relative sliding during the gear meshing process, so the tooth surface has no wear, balance operation, no liquid trapping, low noise, long service life and high efficiency. SGY series gear pump are mainly composed of gears, shaft, pump casing, cover, bearing sleeves, shaft seals and other components.
- The pump is designed with pressure differential type safety valve for protection against overload. The full return flow pressure of safety valve is 1.5 times higher than the rated discharge pressure of the pump. It can also be adjusted within the allowance of exhausting

pressure range in actual practice. But please note that safety valve can't be working as pressure reducing valve for long time. You may install pressure reducing valve separately on pipelines needed.

- The pump shaft end seal is designed in two forms: one is a mechanical seal and the other is a packing seal, which can be selected by the user according to the requirements of use.

APPLICATION

- In the transfer oil system can be used for transmission, booster pump;
- In the fuel oil system can be used as a transport, pressure, jet fuel pump;
- In all industrial fields, all can be used as lubricating oil pump.



SGY SERIES CIRCULAR ARC GEAR PUMP PERFORMANCE DATA

Model	Flow Capacity		Discharge Pressure	Suction Vacuum	Efficiency	Port Size	Speed	Motor	
	m ³ /h	l/min	Mpa	m	%	mm	r/min	(kW)	Model
SGY0.6/0.6	0.6	10	0.6	3	32	Ø25	910	0.75	Y90S-6
SGY1.0/0.6	1	16.7	0.6	3	32	Ø25	1390	0.75	Y80L2-4
SGY1.6/0.6	1.6	26.7	0.6	3	42	Ø32	910	0.75	Y90S-6
SGY2.5/0.6	2.5	42	0.6	3	42	Ø32	1400	1.1	Y90S-4
SGY3.3/0.6	3.3	55	0.6	3	60	Ø40	940	1.5	Y100L-6
SGY4/0.6	4	66	0.6	3	60	Ø50	940	1.5	Y100L-6
SGY5/0.6	5	83.3	0.6	3	60	Ø40	1420	2.2	Y100L-4
SGY6/0.6	6	100	0.6	3	60	Ø50	1420	2.2	Y100L-4
SGY8/0.6	8	133	0.6	3	60	Ø65	960	3	Y132S-6
SGY10/0.6	10	167	0.6	5	60	Ø65	960	4	Y132M-6
SGY12/0.6	12	200	0.6	5	61	Ø65	1440	5.5	Y132S-4
SGY15/0.6	15	250	0.6	5	61	Ø65	1440	5.5	Y132S-4
SGY20/0.6	20	333	0.6	5	68	Ø80	970	7.5	Y160M-6
SGY25/0.6	25	420	0.6	5	69	Ø100	970	11	Y160L-6
SGY30/0.6	30	500	0.6	5	70	Ø100	970	11	Y160L-6
SGY40/0.6	40	660	0.6	5	72	Ø125	970	15	Y180L-6
SGY50/0.6	50	833	0.6	5	72	Ø125	970	22	Y200L-6

MODEL SELECTION:

MODEL SELECTION TABLE										
SGR	*	*	*	*	*	*	*	*	*	
MODEL		Follow above Performance Data table								
CONNECTION SIZE		Follow above Performance Data table								
PRESSURE		Follow above Performance data table								
BODY MATERIAL	C1		Cast Iron HT200							
	C2		Cast Iron 450							
INTERNAL GEAR MATERIAL	G1		CARBON STEEL							
	G2		Special material							
SEAL TYPE	M		Mechanical							
	P		Glands packings							
FILTER	F		With Filter							
	N		Without Filter							
DRIVE TYPE	D		Direct Coupled							
	G		Geared Reducer							
MOTOR	S		Standard IE3, Non Explosion Proof							
	E		Explosions proof IE3							

Contact Us

Business Hours

📞 Weekdays: 8.30AM to 5.30PM

Weekends: Closed

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