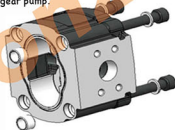
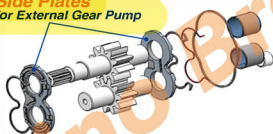


Pump used side plates play a crucial role in the operation of hydraulic gear pumps. Their combination of strength, durability, and anti-friction properties make them an indispensable component, contributing to the overall efficiency and lifespan of the pump. It is essential to source these components from a reliable supplier to ensure the optimal performance of your hydraulic gear pump.

Side Plates for External Gear Pump



Side Plate for external gear pump is a type of bearing that is commonly used in hydraulic gear pumps. These plates are available in three types of metals - Bimetal, Bronze Alloyed, and Aluminium.

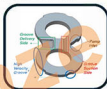


Bi-metal Side Plate

← Bimetal side plates are designed to withstand high impact loads, making them suitable for use in hydraulic gear pumps, which are often subject to intense forces.

Sinobronze side plates' designed and produced by sintered bronze alloys on steel backing, which made the plates that is both strong and has excellent anti-friction properties.

SB's bimetallic side plates are commonly employed in gear pumps and motors due to their robust nature and superior mechanical properties.



Their low carbon steel matrix ensures the outer diameter's processing accuracy, eliminating the need for screw fixation after product installation. An interference fit can prevent any outer circle phenomena.

The bearings can meet varying operational requirements through changes to the chemical composition of the inner surface alloy layer. This can accommodate different load pressures, operating temperatures, and sliding speeds. In addition, the production of the friction surface can incorporate various oil grooves and oil holes, meeting different refueling methods' requirements and preventing shaft bite phenomena.

Sinobronze® Bimetal Alloys Display									
SB Standard Code		SB-702	SB-703	SB-705	SB-707	SB-709	SB-711	SB-713	SB-715
B&B Code / DIN Code		S&E-702	S&E-703	S&E-705	S&E-707	S&E-709	S&E-711	S&E-713	S&E-715
SB Code		CuPb20Zn	CuPb20Zn	CuPb20Zn	CuPb20Zn	CuPb20Zn	CuPb20Zn	CuPb20Zn	CuPb20Zn
Bearing Material		Low Carbon Steel (S157 / S45C)							
Chemicals (%)	Cu	Balance	Balance	Balance	Balance	Balance	Balance	Balance	0.7-1.3
	Pb	9.0-11.0	10.0-12.0	8.0-10.0	8.0	8.0	8.0	8.0	8.0
	Sn	9.0-11.0	10.0-12.0	8.0-10.0	8.0-10.0	8.0-10.0	8.0-10.0	8.0-10.0	8.0-10.0
	Zn	0.5	0.5	0.5-1.0	0.5	0.5	0.5	0.5	0.5
	P	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Fe	0.5	0.7	0.4	0.5	0.6	0.6	0.7	0.7
	Ni	0.5	0.3	0.3	0.5	0.5	0.5	0.5	0.5
Performance Data	Oil	—	—	—	—	—	—	—	Balance
	Oil	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Sliding	*****	*****	*****	*****	*****	*****	*****	*****
	Wear Resistance	*****	*****	*****	*****	*****	*****	*****	*****
	Hardness	*****	*****	*****	*****	*****	*****	*****	*****
	Anti-Static	*****	*****	*****	*****	*****	*****	*****	*****
	Corrosion Resistance	*****	*****	*****	*****	*****	*****	*****	*****
Performance Data	High Temperature	*****	*****	*****	*****	*****	*****	*****	*****
	High Pressure	*****	*****	*****	*****	*****	*****	*****	*****
	High Speed	*****	*****	*****	*****	*****	*****	*****	*****
Environmental protection		+	+	+	+	+	+	+	+



SinoBronze also provide worldwide end users with bronze alloyed side plate and aluminium side plates.



Bronze Alloyed Side Plate



Aluminium Side Plate

In a hydraulic gear pump, SinoBronze side plates serve several crucial roles:

Efficiency: The main function of the bimetal side plate is to reduce friction in the gear pump, which helps maintain the pump's operational efficiency. The plate's bronze layer offers excellent anti-friction properties, ensuring that the gears in the pump can rotate smoothly and without unnecessary resistance.

Durability: The steel backing of the thrust plate provides strength and durability, allowing it to withstand the high pressures and forces commonly experienced in hydraulic systems.

Maintenance and lifespan: Thanks to their excellent wear resistance, bi-metal side plates can extend the lifespan of hydraulic gear pumps. By reducing friction and wear, these plates help prevent premature wear and tear, reducing the need for frequent maintenance and replacement of parts.

In conclusion, SinoBronze side plates play a crucial role in the operation of hydraulic gear pumps. Their combination of strength, durability, and anti-friction properties make them an indispensable component, contributing to the overall efficiency and lifespan of the pump. It is essential to source these components from a reliable supplier to ensure the optimal performance of your hydraulic gear pump.



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