

BWG-bearings with or without flange are made of casted bronze material with special solid lubricant embedded.

The base metal is aimed for high loads and the solid lubricant makes it possible to use BWG-bearings without additional lubrication.

BWG-bearings show excellent performance without lubrication under conditions of low speeds and extreme high or low temperatures.

The lubrication reservoirs are dispersed in a special way over the bearing surface, therefore the whole bearing surface is lubricated when the movement occurs. These lubrication reservoirs cover about 25-30% of the sliding surface.

Technical data

Material:Bronze bearing with graphite.Yield point: $(R_{po.2})$ ca 450 N/mm²Tensile stranght: (R_m) ca 750 N/mm²Hardness:> 210 HB

Friction: 0,03-0,20μ

Temperature range: -100 / +300 °C

Max load	Movment	
150 N/mm²	Static	
90 N/mm²	Dynamic	

Tolerances:

Housing: Tolerance H7.

Cylindrical bearing: According to drawing or standard: Inside: F7, outside m6. (push fit)

Flanged bearing: According to drawing or standard: Inside: E7, outside r6.

Shaft: Recommended tolerances: d8, e7 or f7.

Lubrication: The BWG-bearing is designed to run without lubrication. but the bearings feature will improve with additional lubrication.

Benefits:

- Extremely high load capacity.
- May be used without additional lubrication.
- Excellent for constructions with low speeds and high loads.
- Suitable for reciprocating, oscillating or intermittent movement.
- Wide range of temperature.
- Good chemical resistance.
- · Excellent corrosion resistance.

Special:

- Thrust washers, plates, bars.
- Drawing details.
- Several alternative lubricant materials.
- Several alternative base materials.

Typical applications:

- Casting machines.
- · Steel rollers.
- Metallurgic industry.
- · Ships.
- Turbines.
- Ship cranes.

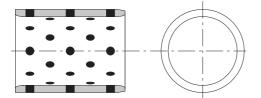
D&E Bearings

Data Sheet Slide Bearing • BWG

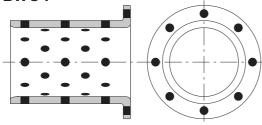
Material data						
	BWG	BWG-S1	BWG-S2	BWG-S3	BWG-S4	
Material Composition %						
Cu	62-68	85	80	88	80	
Sn		5		12	10	
Pb		5			10	
Zn	Rest	5				
Ni			5			
Al	5-7,5		10			
Fe	2-4		5			
Mn	2,5-5					
Properties						
Yield point N/mm ²	>350	>90	>260	>150	>100	
Tensile strenght N/mm ²	>750	>250	>500	>270	>210	
Permitted load N/mm ²	100	60	50	70	60	
Permitted speed m/min	15	10	20	10	10	
Density	8,0	8,8	7,6	8,8	8,9	
Hardness HB	>210	>70	>150	>95	>75	
Friction µ	0,03~0,20	0,03~0,18	0,03~0,20	0,03~0,18	0,03~0,20	
Temperature range	-100/+300°C	-100/+400°C	-100/400°C	-100/+400°C	-100/+400°C	

Solid Lubricants:	Properties	Applications
SL1 Graphite+add	Excellent resistance against chemicalattacks. Low friction. Temperature up to 400°C	Suitable for the most common applications above water.
SL4 PTFE+MOS2+CF	Low friciton. Works very well in water conditions. Temperature up to 300°C.	Suitable for applications which are in contact or under water. For example ships, dam gates, turbines, cranes

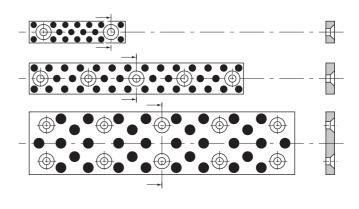
BWG



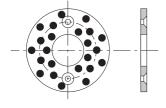
BWG-F



BWG-PLATE



BWG-WASHER



BWG-RAIL

