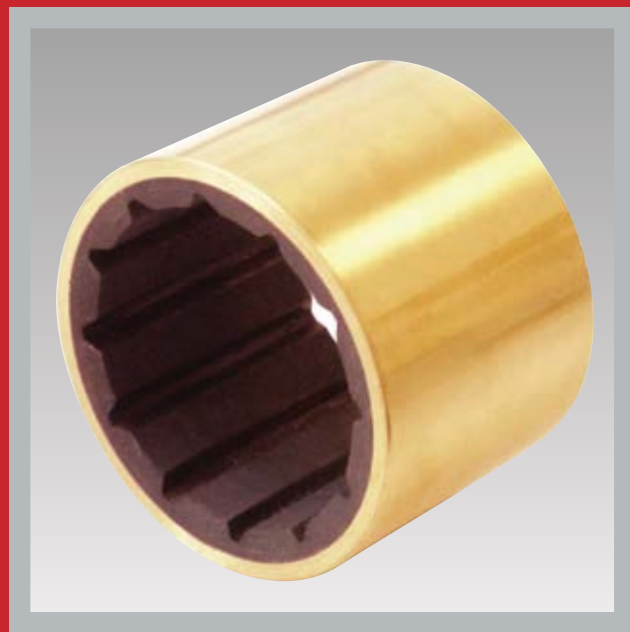


# FLO-MAS<sup>®</sup>



RUBBER LINED BEARING, WATER LUBRICATED



# FLO-MAS®

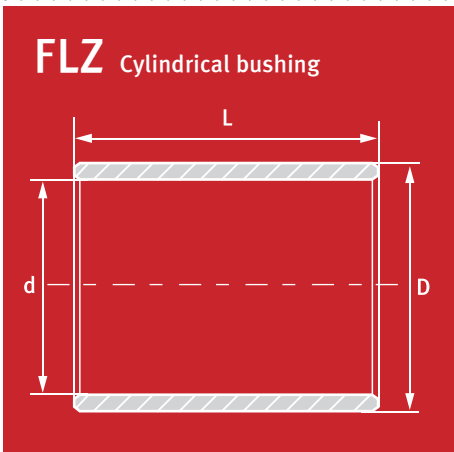
Rubber lined bearing • Water lubricated • Metallic and non-metallic bearing shell • Various bearing Lining

We produce all special designs at short notice!

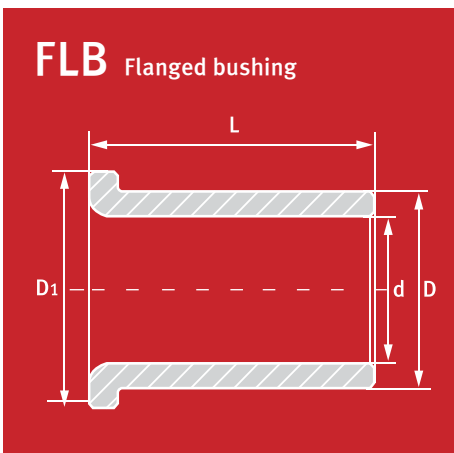
FLZ Cylindrical bushing  
FLB Flanged bushing

| PROPERTIES                       |   | Suitable for water lubricated applications like pumps and propeller shafts.                                      |                      |                      |
|----------------------------------|---|--|----------------------|----------------------|
| MATERIALS                        |   |  |                      |                      |
| Bearing Shell                    | Non-ferrous   | Alloy  | BS 1400              | ISO / DIN            |
|                                  |   | Aluminium Bronze   | AB2                  | CuAl10Ni / 1714      |
|                                  |   | Phosphor Bronze  | PB1                  | CuSn10P / 1705       |
|                                  |   | Phosphor Bronze  | PB2                  | CuSn12P              |
|                                  |   | Leaded Gun Metal   | LG2                  | CuSn5ZnPb / 1705-RG5 |
|                                  |   | Leaded Gun Metal   | SAE660               | CuSn7ZnPb / 1705-RG7 |
|                                  | Naval Brass   | BS2781 CZ112   | CuZn38Zn1            |                      |
|                                  | Ferrous   | Austenitic - 316   | 316S18               | W.Nr. - 1.4401       |
|                                  |   | Austenitic - 316L  | 316S14               | W.Nr. - 1.4404       |
|                                  |   | Austenitic - 317   | 317S17               | W.Nr. - 1.4449       |
|                                  |   | Martenitic 410   | 410S21               | W.Nr. - 1.4024       |
|                                  |   | Duplex-wrought (Zeron 25)  | UNS S31803           | W.Nr. - 1.4462       |
|                                  |   | Super Duplex - wrought (Zeron 100)   | UNS S32760           | W.Nr. - 1.4501       |
|                                  | Super Duplex - cast   | UNS J93380   | W.Nr. - 1.4508       |                      |
| Non-metallic                     | COM-KU®/D (Fibre reinforced polyester)  |  |                      |                      |
|                                  | Phenolic (paper based)  |  |                      |                      |
| Bearing Lining                   | Material  | Major Properties   |                      |                      |
|                                  | Polyurethane  | Very tough and high strength material with excellent abrasion resistant properties. Ideal for dirty environment. |                      |                      |
|                                  | Nitrile Rubber (NBR)  | Lower strength than Polyurethane, yet resistant against oil, low water swell, very good heat resistant.          |                      |                      |
|                                  | On request special produced elastomers like Butyl, Ethylene Propylene (EPDM0), Fluoroelastomers (Viton) | For special demand of applications, i.e. high temperature, low temperature, chemical resistance, etc.            |                      |                      |
| MATERIAL PROPERTIES              |   | Polyurethane   | Nitrile Rubber (NBR) |                      |
| Specific load capacity dynamic   | ≤ 4 [N/mm <sup>2</sup> ]  | ≤ 4 [N/mm <sup>2</sup> ]   |                      |                      |
| Sliding speed                    | ≤ 35 [m/s]  | ≤ 35 [m/s]   |                      |                      |
| Hardness (IRHD)                  | 90  | 70   |                      |                      |
| Tensile Strength (MPa)           | 31  | 11   |                      |                      |
| Modulus @ 100% (MPa)             | 7.6   | 3.7  |                      |                      |
| Elongation at Break (%)          | 450   | 250  |                      |                      |
| Tear Strenght (MPa)              | 42  | 22   |                      |                      |
| Compression Set (22hrs @ 70 °C)  | 27  | 20   |                      |                      |
| TOLERANCE DETAILS                |   | Specified by the customer  |                      |                      |
| Housing - Ø                      | Specified by the customer   |  |                      |                      |
| Bushing-Inner - Ø after mounting | Specified by the customer   |  |                      |                      |
| Shaft tolerance                  | Specified by the customer   |  |                      |                      |
| SHAFT MATERIAL                   |   | Various stainless steel grades suitable for the application and medium   |                      |                      |
| MAINTENANCE                      |   | FLO-MAS® needs water lubrication!  |                      |                      |

We are able to produce bearings with an integral cast flange, as required to customer specifications. Additional features such as water inlet holes, lips, internal and external steps and milled slots are possible.



| FL              | Z                              | 50                       | 70                       | 50               |
|-----------------|--------------------------------|--------------------------|--------------------------|------------------|
| Type (FLO-MAS®) | Geometry (Cylindrical bushing) | Inner diameter 50 mm (d) | Outer diameter 70 mm (D) | Length 50 mm (L) |



| FL              | B                          | 50                       | 70                       | 50               |
|-----------------|----------------------------|--------------------------|--------------------------|------------------|
| Type (FLO-MAS®) | Geometry (Flanged bushing) | Inner diameter 50 mm (d) | Outer diameter 70 mm (D) | Length 50 mm (L) |

**All sizes and measurements are produced to customer's specification.**