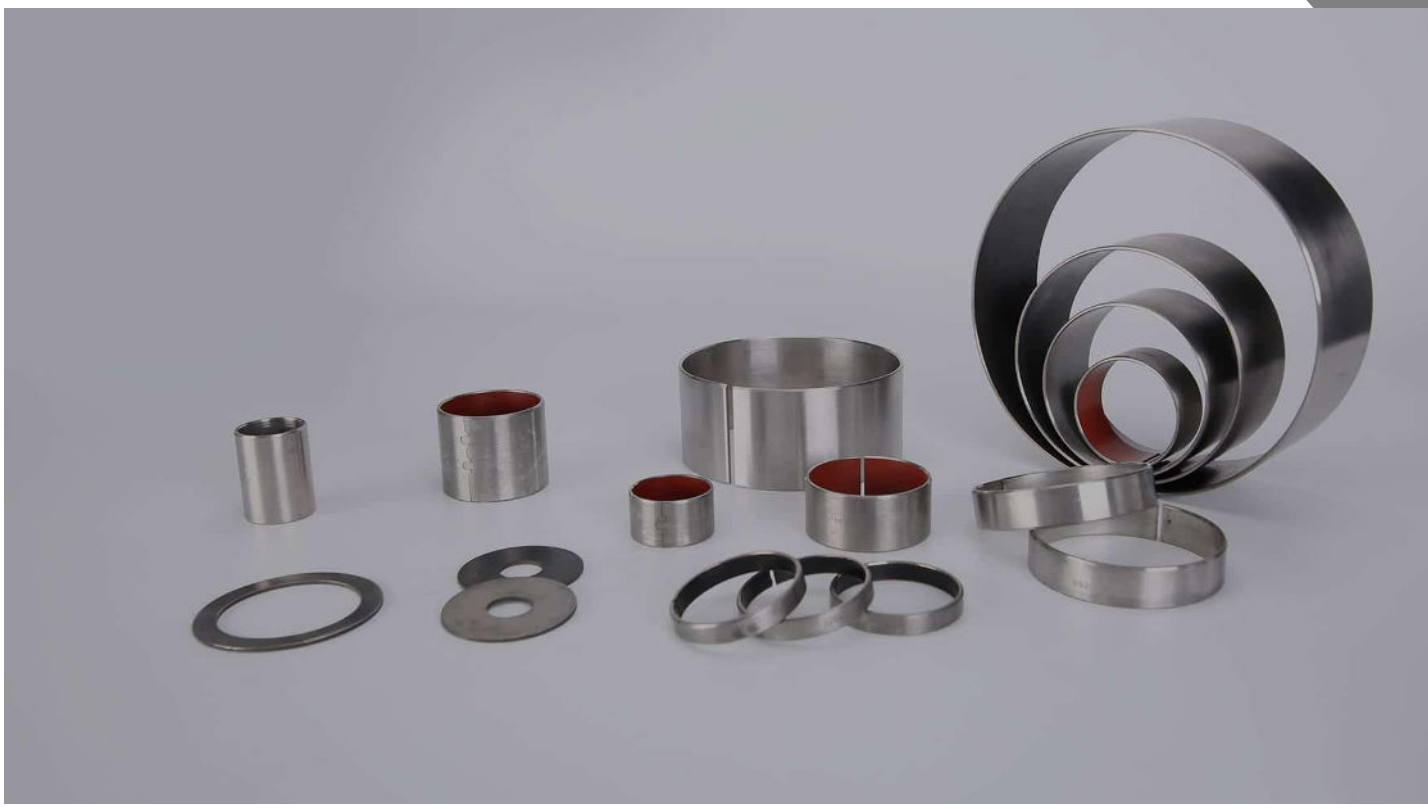


PLAIN BUSHES CATALOG

PLAIN BEARINGS TYPE

Technical Supplier

VIIPLUS specializes in technical products, which we have categorized into five main groups:
Plain Bearing Materials: Including bronze bushings and other specialized alloys.
Custom Machined Bronze Parts: We manufacture precision-engineered bronze components tailored to your needs. Discover the benefits and diverse applications of these parts across various industries, where they enhance durability and performance.
Plain Bearings and Components: Such as slide blocks, slide plates, cylindrical bearings, flange bearings, and high-tensile brass CuZn25Al5Mn4Fe3 bearing bushings with graphite plugs.
Custom-Sized Components: Offering custom-sized flange bearings and slide plates to meet specific requirements.
High-Performance Alloys: Including CW307G / CuAl10Ni5Fe4 and CuSn7Zn4Pb7, designed for demanding applications.
With millions of products in our portfolio, we ensure fast production and delivery times to meet your needs efficiently.

PTFE bearings
High load capacity and maintenance-free

Custom Bearings

POM bearings
Minimal maintenance under severe operating conditions

Maintenance-free bearings with lubricating plugs
Self-lubricating maintenance-free plain bearings for heavy-duty conditions

Wrapped bronze bearings
Long service intervals under severe operating conditions

Solid bronze bearings
Good in severe and contaminated conditions

The complete plain bearings

PLAIN BEARING BUSHES

In addition to plain bearings, we also offer a wide selection of bronze rings, slide blocks, wear plates, plain bearing components, and flange bearings.

Plain Bearings Type & Guide

	BRONZE BEARINGS	PTFE BEARINGS		
	BRONZE	STEEL	BRONZE	STAINLESS STEEL
Self-lubricating	Very good	Excellent	Excellent	Excellent
Maintenance-free	Very good	Excellent	Excellent	Excellent
Dirty environments	Good	Unsuitable	Unsuitable	Unsuitable
Corrosion-resistant	Good	Good	Very Good	Excellent
High temperature	Unsuitable	Excellent	Excellent	Excellent
High load	Unsuitable	Very Good	Very Good	Very Good
Shock loads/vibrations	Good	Good	Unsuitable	Good
High sliding velocity	Excellent	Very Good	Very Good	Very Good
Low friction	Very good	Excellent	Excellent	Excellent
Poor shaft surface finish	Unsuitable	Unsuitable	Unsuitable	Unsuitable
Small operating clearance	Good	Excellent	Excellent	Excellent
Insensitive to misalignment	Good	Unsuitable	Unsuitable	Unsuitable
Standard range				

Plain Bearing Type

	POM BEARINGS	WRAPPED BRONZE BEARINGS	SOLID BRONZE BEARINGS	MAINTENANCE-FREE BEARINGS WITH LUBRICATING PLUGS
Self-lubricating	Very Good	Unsuitable	Unsuitable	Very Good
Maintenance-free	Very Good	Good	Unsuitable	Excellent
Dirty environments	Good	Excellent	Very Good	Good
Corrosion-resistant	Good	Very Good	Very Good	Very Good
High temperature	Good	Very Good	Very Good	Excellent
High load	Excellent	Good	Good	Excellent
Shock loads/vibrations	Good	Very Good	Very Good	Excellent
High sliding velocity	Very Good	Good	Unsuitable	Unsuitable
Low friction	Excellent	Unsuitable	Unsuitable	Good
Poor shaft surface finish	Good	Good	Very Good	Good
Small operating clearance	Very Good	Good	Unsuitable	Good
Insensitive to misalignment	Good	Good	Very Good	Very Good
Standard range				

TOLERANCE TABLE

Tolerance	d	D	L	D1	B	Ds	Dp	Di	Da
E7/r7	E7	r7	h13	js13	h13	H7	s5	F7	h8
E8/r8	E8	r8	h13	js13	h13	H7	s5	F7	h8
G7/s7	G7	s7	js13	-	-	H7	s5	H7	f7
G8/s8	G8	s8	js13	js13	js14	H8	s5	H8	f7
F7/s7	F7	s7	js13	-	-	H7	m6	H7	f7
F8/s8	F8	s8	js13	js13	js13	H8	m6	H8	f7

d = Inside dimension | D = Outside dimension | L = Length | D1 = Flange diameter | B = Flange thickness | Ds = Bearing housing | Dp = PRess arbor | Di = End tolerance | Da = Shaft

PTFE Bearings

HIGH LOAD AND MAINTENANCE-FREE

PTFE bearings are perfect for applications with high loads and moderate speeds, offering the benefit of being maintenance-free.
These bearings are manufactured in compliance with the ISO 3547 standard.

PROPERTIES

	PTFE (Steel Backed)	PTFE (Bronze Backed)	PTFE (Stainless Steel)
Max. load (Dry/stat), N/mm^2	140 / 250	140 / 140	140 / 250
Max. sliding speed m/s dry	2,0	2,0	2,0
Max. sliding speed m/s hydrodynamic	>2,0	>2,0	>2,0
Max. PV value N/mm^2 x m/s	1,8	1,8	1,8
Temperature range, °C	-200 / +280	-200 / +280	-200 / +280
Shaft tolerance	f7 - h8	f7 - h8	f7 - h8
Housing tolerance	H7	H7	H7
Shaft roughness	Ra ≤ 0,4	Ra ≤ 0,4	Ra ≤ 0,4
Shaft hardness	HB > 200	HB > 200	HB > 200

MATERIALS

PTFE bearings typically feature a steel or bronze backing, with an optional stainless steel backing available upon request. A sintered bronze layer is applied to the backing, which is then coated with a PTFE layer self-lubricating, lead-free sliding surface.

The bronze intermediate layer enhances heat dissipation and provides a strong bond between the backing and the sliding surface. For added protection, the steel backing is coated with a layer of tin to prevent corrosion.

ADVANTAGES

- Self-lubricating
- Maintenance-free
- High load capacity
- Low friction coefficient
- Minimal bearing play
- Operating temperature up to 250°C

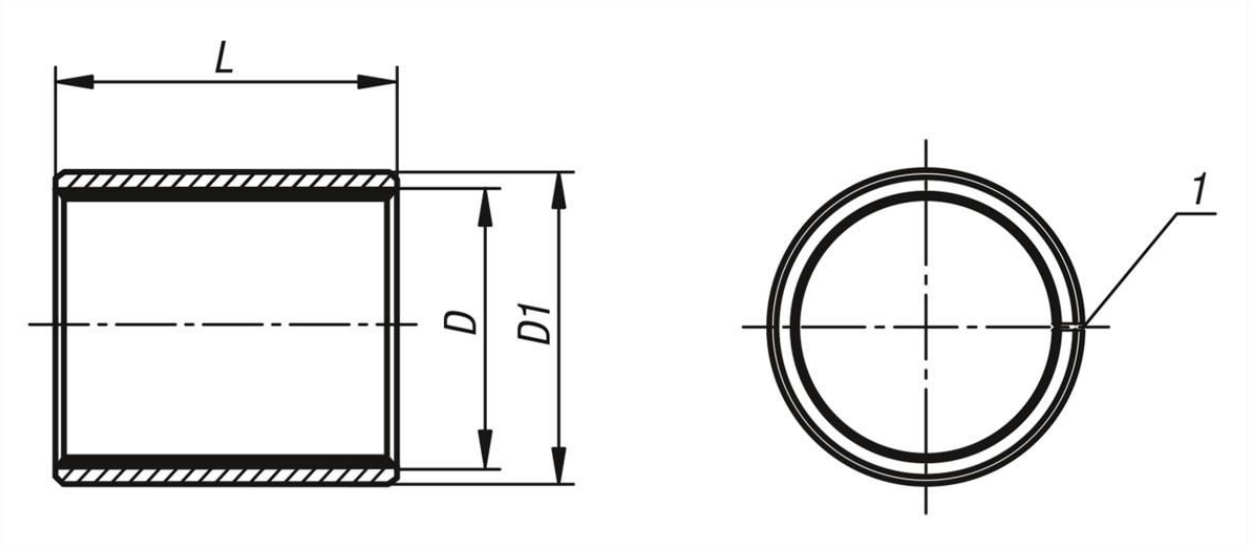
Maintenance-free plain bearings

Plain Bushes
Plain bushes are designed for use in rotary, oscillating, and linear motion applications, whether with short or long stroke lengths.

For maintenance-free, polymer composite plain bearings featuring PTFE as the sliding material, lubrication is not required throughout the bearing's lifespan, thanks to the PTFE acting as a dry lubricant.

Low-maintenance polymer composite plain bearings with POM as the sliding material come with initial lubrication at the start of operation. The sliding layer, equipped with lubrication pockets, typically ensures that this initial lubrication is sufficient for most applications.

Plain Bearings Cylindrical



1. SPLIT PLAIN BEARINGS

Butt joint

MATERIAL
Base material, steel.
Intermediate layer sintered bronze.
Bearing surface PTFE.
VERSION
Steel tin-plated.
NOTE
Maintenance-free rolled composite steel plain bearings particularly suitable for dry running. Also highly suitable for lubricated applications (oil lubrication). Very low wear and friction, no stick-slip effect. Suitable for rotary and oscillating movements, high chemical resistance, low water absorption.

ASSEMBLY
The use of a suitable press mandrel is recommended to avoid damaging the bearing surface. The butt joint must be opposite the load zone. The bearing has an interference fit after installation. Gluing is possible but not required.
TOLERANCES
Housing:
Recommended tolerance H7.
Surface finish Ra 0.8 to 1.6.
Chamfer (press-in side 0.8 to 1.2 x 15°).
Shaft:
Recommended tolerance h8 to f7. For applications at a low speed and small loads drawn shafts with h9 can also be used.

DRAWING REFERENCE 1) Butt joint

PTFE bearings

LUBRICATION

During the initial run-in period, a portion of the run-in layer, which consists of the PTFE mixture, is transferred to the counter material. As this process occurs, the bearing surface typically adopts a gray/green color. The characteristic low friction and wear properties are fully achieved once the run-in period is complete.

Adding oil or other non-corrosive fluids can further improve the bearing's performance.

APPLICATIONS

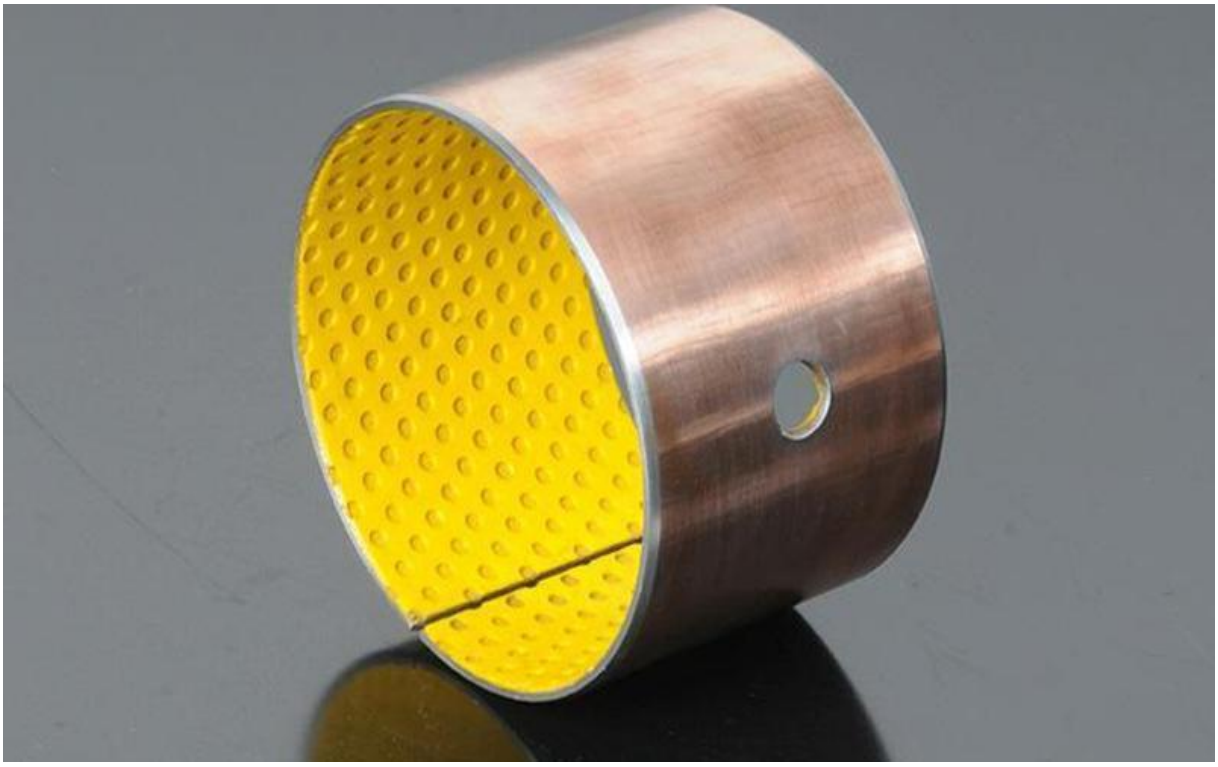
- Elevators
- Hydraulics
- Textile machinery
- Butterfly valves
- Consumer electronics

POM bearings

MINIMAL MAINTENANCE UNDER SERVE OPERATING CONDITIONS

POM bearings are specifically designed for low-lubrication applications, allowing them to operate efficiently for extended periods with minimal lubrication.

POM bearings are produced according to ISO 3547.



PROPERTIES

	POM BUSHES
Max. load (Dyn/stat), N/mm^2	140 / 250
Max. sliding speed m/s dry	2,5
Max. PV value N/mm^2 x m/s	2,8
Temperature range, °C	-40 / +130
Shaft tolerance	f7 - h8
Housing tolerance	H7
Shaft roughness	Ra ≤ 0,4
Shaft hardness	> 200 HB

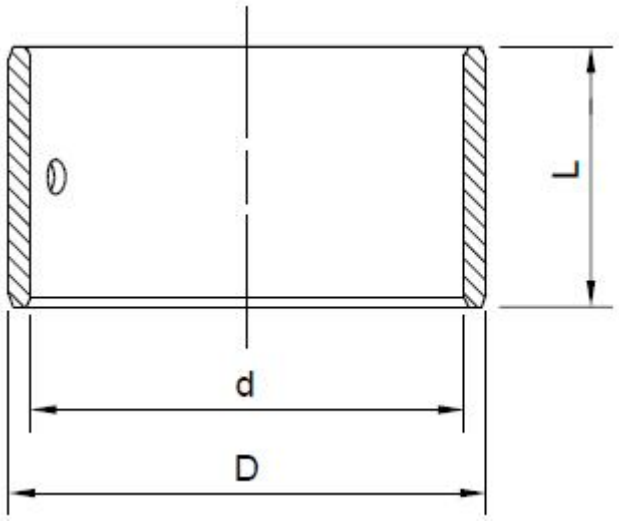
MATERIALS

POM bearings feature a steel backing with a sintered bronze layer applied on Plain Bearings. A POM Plain Bearings layer is then added to the bronze. The bronze intermediate layer facilitates efficient heat dissipation and creates a strong bond between the steel backing and the sliding surface.

To prevent corrosion, the steel backing is coated with either a copper or tin layer, while the POM Plain Bearings layer includes grease pockets to retain lubricant.

ADVANTAGES

- Minimal maintenance
- High sliding velocity
- High load
- Low coefficient
- Minimal bearing play



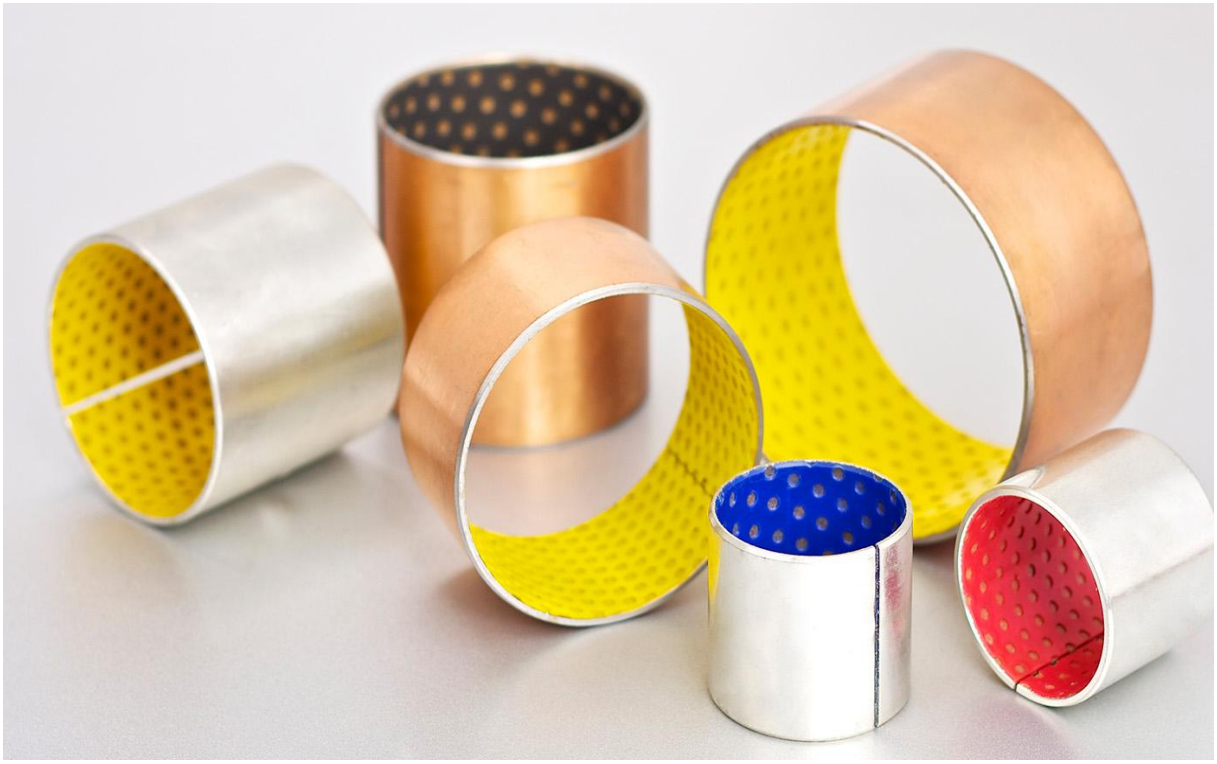
POM bearings, POM BUSHING Dimensions

LUBRICATION

We recommend lubricating POM bearings with grease, especially in environments with temperatures above 50°C, where the grease should contain an antioxidant. Greases with POM additives or high amounts of graphite or MoS2 are generally not recommended.

Oil lubrication is only advisable for applications where the oil temperature does not exceed 70°C.

Plain Bearing Type



APPLICATIONS

- Hydraulic applications
- Elevators
- Transportation
- Mechanical engineering
- Construction machinery

Wrapped bronze bearings

LONG SERVICE INTERVALS UNDER SEVERE OPERATING CONDITIONS

Wrapped bronze bearings are perfect for applications with high levels of contamination. Their sliding surface is designed with diamond-shaped pockets or holes to hold lubrication. These pockets should be filled with grease during installation.

PTFE bearings are well-suited for high-load, moderate-speed applications and are maintenance-free.

Both types of bearings are manufactured in compliance with ISO 3547.

PROPERTIES

	CUSN8 BRONZE BEARING	CUSN8 LUBRICATING HOLES BEARING
Max. load (Dyn/stat), N/mm^2	40 / 120	140 / 250
Max. sliding speed m/s	2,0	2,0
Max. PV value N/mm^2 x m/s	2,8	2,8
Temperature range, °C	-100 / +200	-100 / +200
Shaft tolerance	e7 - f8 - h6	e7 - f8 - h6
Housing tolerance	H7	H7
Shaft roughness	Ra ≤ 0,8	Ra ≤ 0,8
Shaft hardness	> 200 HB	> 200 HB

MATERIALS

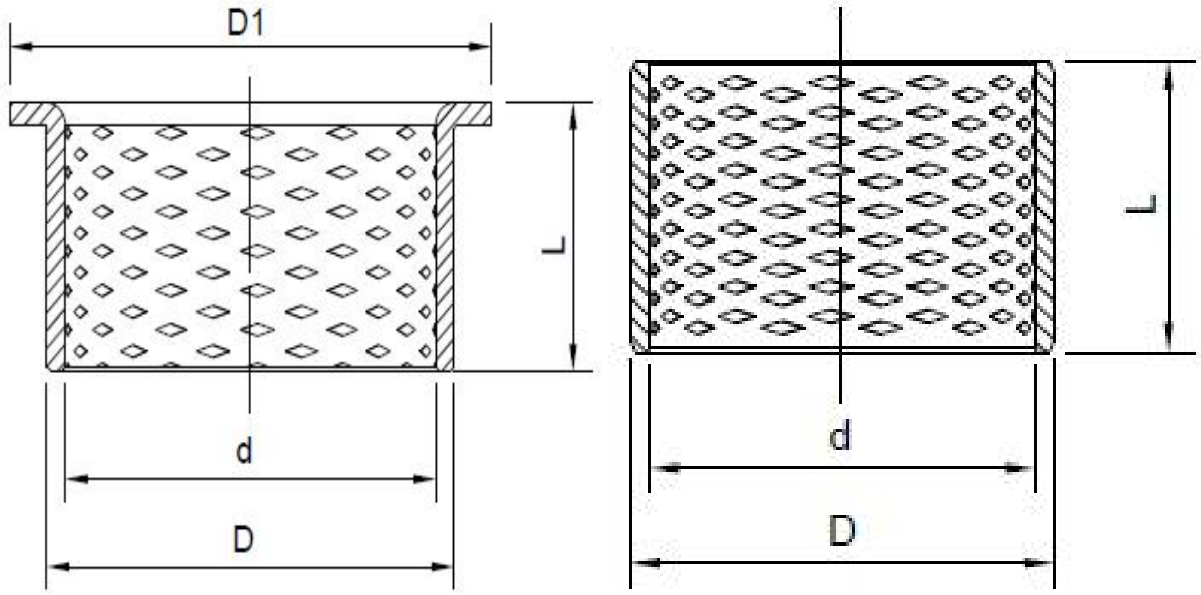
Wrapped bronze bearings are made entirely from phosphor bronze CuSn8, known for its high purity with minimal impurities.

These plain bearings are produced from strips, which are then wrapped and calibrated to their final shape.

ADVANTAGES

- Extended service intervals
- Resistant to impurities
- Ideal for corrosive environments
- Capable of handling impact loads and vibrations at low speeds
- Effective heat dissipation

SPLIT TYPE BEARING



Wrapped bronze bearings Lubrication pockets

LUBRICATION

Wrapped bronze bearings should be lubricated with grease or oil during installation. Using a high-quality lubricant is crucial, as it forms a film between the bearing and the shaft, reducing friction and wear.

For applications with heavy contamination, we recommend sealing the bearing to protect both the bearing and the lubricant.

Rolled flange bearings with lubrication pockets are also available. These lubrication pockets enable the bearing to retain lubricant more effectively, ensuring continuous lubrication even in difficult conditions. Additionally, the rolled flange design provides enhanced stability and support, making these bearings ideal for applications requiring high radial and axial loads.

Plain Bearing Type

APPLICATIONS

- Agricultural vehicles
- Lifting equipment
- Offshore applications
- Excavators

Solid bronze bearings

GOOD IN SEVERE AND CONTAMINATED CONDITIONS

Solid bronze bearings are well-suited for demanding applications in tough environments, making them ideal for a wide range of uses.

PROPERTIES

	Bronze Bearing
Max. load (Dyn/stat), N/mm^2	25 / 45
Max. sliding speed m/s dry	0,5
Max. PV value N/mm^2 x m/s	2,8
Temperature range, °C	+250 (depending on the type of lubricant)
Shaft tolerance	e7 - e8
Housing tolerance	H7
Shaft roughness	Ra ≤ 1,0
Shaft hardness	> 165 HB

Plain Bearing Type

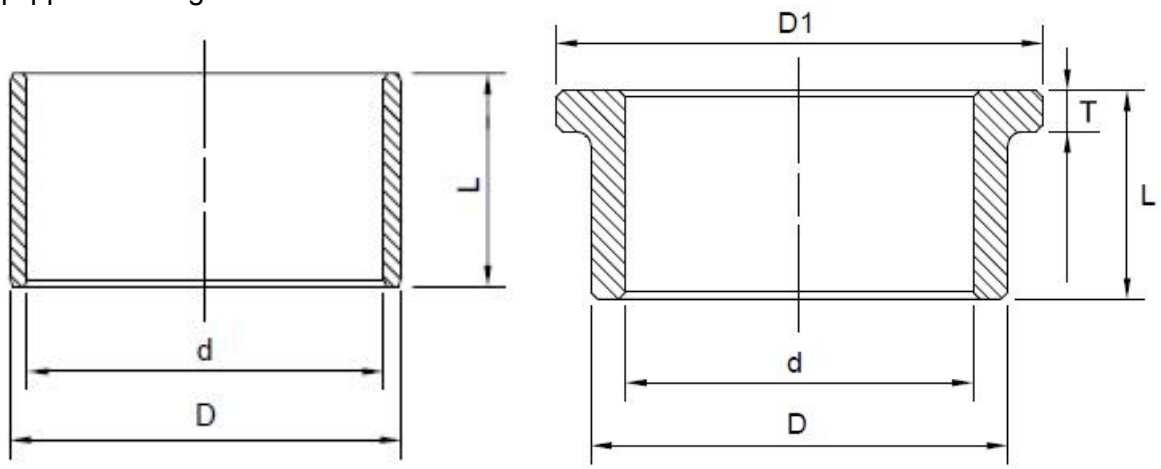
MATERIALS

Solid bronze bearings are crafted from CuSn7Zn4Pb7 continuously cast bronze, which is 85% copper and offers excellent sliding properties. All surfaces of these plain bearings are precision-machined.

In addition to the standard material, several other alloys are available, with the most common being CuAl10Ni, CuSn10, and CuSn12.

ADVANTAGES

- Resistant to impurities
- Ideal for corrosive environments
- Capable of handling impact loads and vibrations at low speeds
- Equipped with a groove to retain lubricant



Solid bronze bearings

LUBRICATION

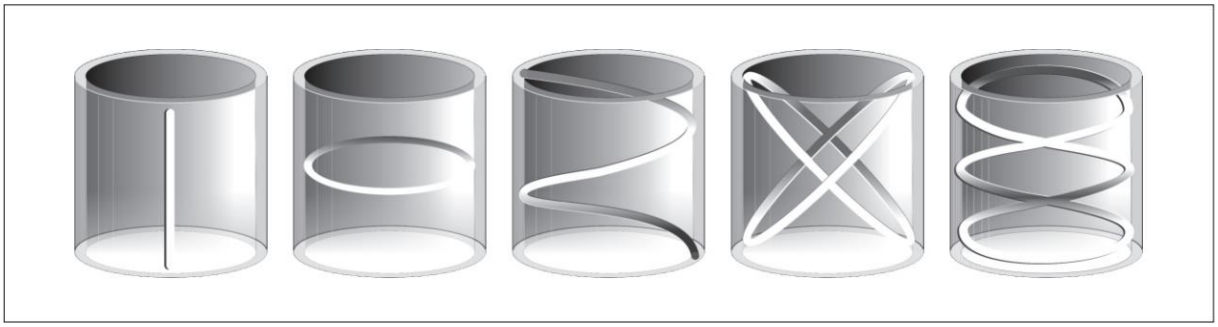
Solid bronze bearings are typically lubricated with grease, though oil may be used for specialized applications. A high-quality lubricant helps reduce friction and wear by forming a protective film between the bearing and the shaft. For applications with heavy contamination, we recommend sealing the bearing to protect both the bearing and the lubricant.

All solid bearings that possess an internal diameter measuring 14 millimeters or larger are equipped with a special axial lubrication groove.

APPLICATIONS

- Offshore applications
- Dredging industry
- Mechanical engineering
- Elevators

LUBRICATION GROOVE OPTIONS



Maintenance-free bearings with lubricating plugs

SELF-LUBRICATING MAINTENANCE-FREE BEARINGS FOR HEAVY DUTIES

Maintenance-free bearings with lubricating plugs are ideal for heavy loads, high temperatures, vibrations, and corrosive environments.

When these plain bearings are constructed using the specific alloy known as CuAl10Ni, along with the integration of specialized lubricating plugs, they become suitable for utilization in environments involving saltwater applications.

PROPERTIES

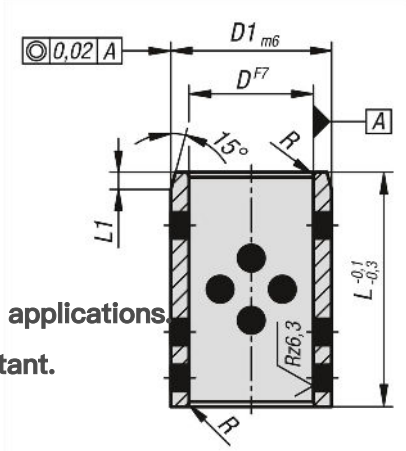
	GRAPHITE BEARINGS
Max. load (Dynamic/Static), N/mm²	100 / 250
Max. sliding speed m/s dry	0,25
Max. PV value N/mm² x m/s	3,34
Temperature range, °C	+300 (depending on material)
Shaft tolerance	e7 - f7 - h6
Housing tolerance	H7
Shaft roughness	Ra ≤ 1,0
Shaft hardness	> 200 HB

MATERIALS

The maintenance-free bearings with lubricating plugs are made from CuZn25Al5, a brass alloy composed of copper and zinc, known for its high static load capacity. The bearings feature a pattern of lubricating plugs.
In addition to CuZn25Al5, several other alloys are also suitable for both the bearings and the lubricating plugs.

ADVANTAGES

- Suitable for corrosive environments
- High load
- Maintenance-free
- Suitable for impact loads and vibrations
- Suitable for high temperatures



Description

Material: Bronze with graphite inserts.

Version: Self–lubricating.

Hardness: 190–220 HB.

Note: **The guide bushings are suitable for both radial and axial applications.**

These bearing elements are maintenance–free and wear–resistant.

The graphite inserts provide lifelong lubrication.

Application: Ideal for travel speeds < 0.5 m/s. (Additional lubrication is recommended for extreme loads or higher travel speeds).

Temperature Range:Temporary temperature peaks up to approximately 200°C.

Tolerances: The bore for the bearings should meet ISO tolerance H7.

Tolerances of h6 to h7 are recommended for the shaft.

Maintenance-free bearings with lubricating plugs

LUBRICATION BEARINGS

Maintenance-free bearings with lubricating plugs come standard with fixed lubricating plugs.

Additional lubrication is recommended for applications with very low or very high speeds.

APPLICATIONS

- Flood/lock gates
- Offshore applications
- Iron and steel industry
- Furnace construction
- Mold making

LUBRICATING PLUGS BEARINGS

Other plain bearings

Other types of plain bearings designed for a wide range of conditions and applications.

Although less common, these plain bearings are equally vital for specialized applications, particularly those requiring operation under dynamic or challenging conditions.

When standard solutions fall short—whether for demanding environments in the food industry, precision bearing requirements, or extreme operating conditions—VIIPLUS steps in to provide the ideal plain bearings tailored to your specific
needs.

Shapes & forms

• Spherical Plain Bearings
• Slide Blocks
• Plain Bushings
• Steel Bearings
• Wrapped Plain Bearings
• Woven Bearings
• High-Grade Bronze/Aluminum Alloy Bearings – These bearings are crafted from premium materials, encompassing a diverse range of types such as cylindrical bearings, plain bearings, and flanged bearings. Specifically, they include the CuSn7Zn4Pb7 alloy, known for its exceptional durability and wear resistance, making it ideal for applications requiring high performance and reliability. Additionally, these bearings feature thrust washers and sliding plates made from the robust CuAl10Ni5Fe4 alloy, which is renowned for its strength and corrosion resistance. Furthermore, the selection includes Nickel-Aluminium Bronze Bearings, which combine the excellent properties of both nickel and aluminium to provide superior performance in demanding environments. These bearings are meticulously engineered to withstand heavy loads, resist corrosion, and ensure smooth and reliable operation in various industrial applications.

Custom size plain bearings

CUSTOM PLAIN BEARINGS

The demand for plain bearings with non-standard specifications is on the rise. At VIIPLUS, we collaborate closely with our customers to find the perfect solutions. This commitment enables us to offer plain bearings in a diverse range of materials, sizes, tolerances, and designs to meet unique requirements.

VIIPLUS is increasingly providing customized plain bearings to a growing clientele. These include specialized options such as cast bronze, graphite bronze bearing bushes, slide plates with MoS2 coatings, and plain bearings crafted from various high-performance alloys. Whatever your needs, we deliver tailored solutions to ensure optimal performance.

PALIN BEARING TYPE

- • Spherical Plain Bearings
- • Plain Bearings with Special Grooves
- • Plain Bearings with Recesses
- • Plain Bearings with Non-Standard Tolerances
- Continuous Standard, with variations depending on material type and the inclusion of lubricating plugs.

Plain Bearing Type

	POM PLAIN BEARINGS	WRAPPED BRONZE BEARINGS	TURNED BRONZE BEARINGS	MAINTENANCE-FREE BEARINGS WITH LUBRICATING PLUGS
Temperature range, °C	-40 / +130	-100 / +200	-40 / +250	+300[*3]
Coefficient of friction	0,05 - 0,20	0,08 - 0,25	0,08 - 0,15	0,03 - 0,16
Dynamic loading N/mm^2	140	40	25	100
Static loading N/mm^2	250	120	45	250
Max. speed m/s	2,5	2,5	0,5	0,25
Shaft tolerance	f7 - h8	e7 - f8 - h6	e7 - f8	e7 - f7 - h6
Housing tolerance	H7	H7	H7	H7
Shaft roughness Ra	≤ 0,4	≤ 0,8	≤ 1,0	≤ 1,0
Shaft hardness HB	> 200	> 200	> 165	> 200
Shaft hardness long service HB	> 350	> 350	> 350	> 350
PV N/mm^2 x m/s	2,8	2,8	2,8	3,34
Compressive strength N/mm^2	380	250	250	480

WRAPPED PLAIN BEARINGS

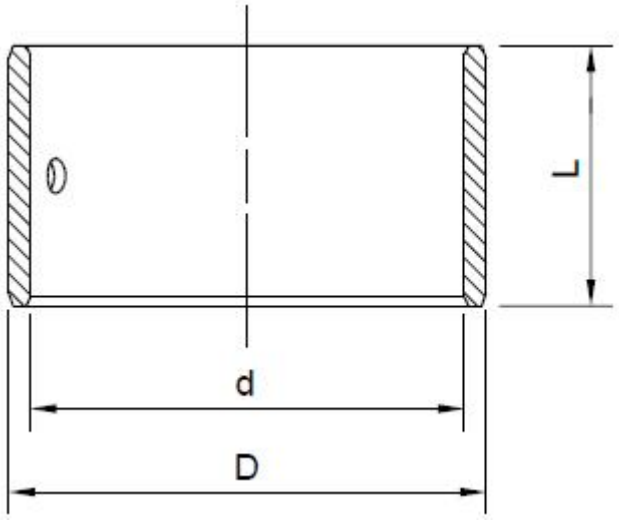
The bearings are pressed into place with a press arbor. When the bearing is pressed in, the bore becomes smaller.

PTFE bearings Size chart

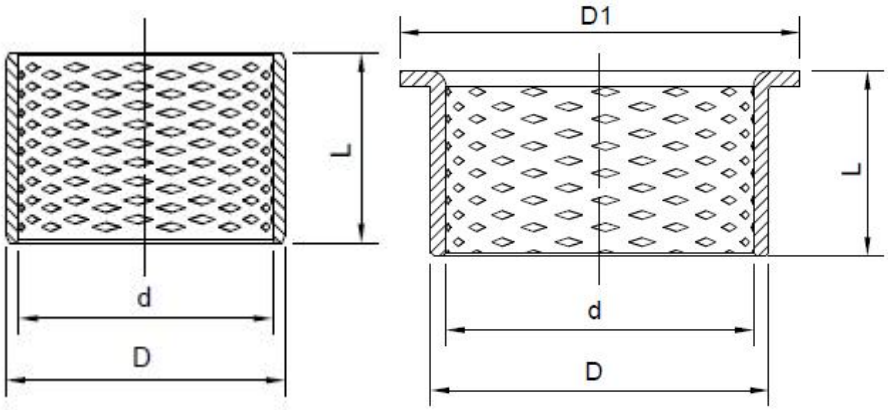
PTFE steel bearings	PTFE bronze bearings
PTFE Stainless Steel bearings	PTFE steel flange bearings
PTFE steel thrust washers	PTFE steel flange thrust washers
PTFE steel strips	

POM bearings Size chart

POM bearings	POM strips
POM sliding plates	



Wrapped Bronze Bearings Size Chart

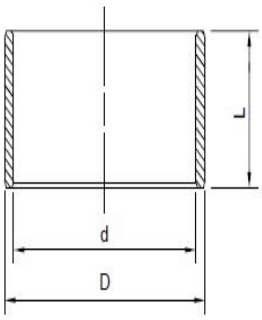


Wrapped bronze bearings

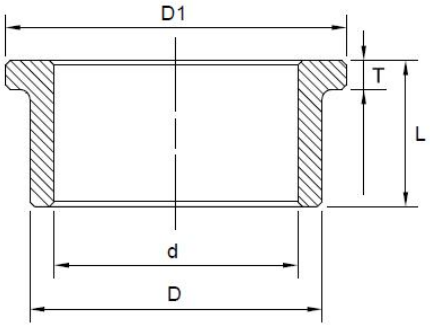
Wrapped bronze flange bearings

Solid bronze bearings Size chart

Solid bronze bearings



Solid bronze flange bearings



Maintenance-Free bearings with lubricating plugs

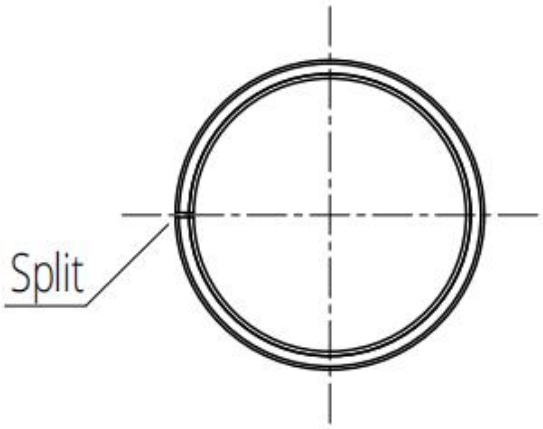
Maintenance-free bearings with lubricating plugs

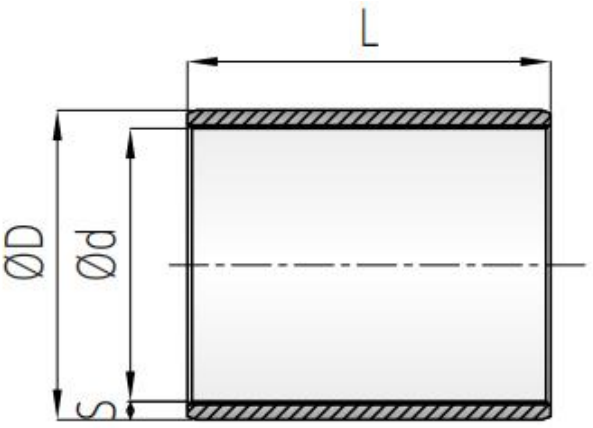
Maintenance-free thrust washers with lubricating plugs

Maintenance-free flange bearings with lubricating plugs

PTFE bearings size chart

Plain Bearing Type





STEEL BACKING

Article number	d	D	Length
PTFE BUSHES	2	3,5	3 | 5
PTFE BUSHES	3	4,5	3 | 4 | 5 | 6
PTFE BUSHES	4	5,5	3 | 4 | 6 | 10
PTFE BUSHES	5	7	4 | 5 | 6 | 8 | 10
PTFE BUSHES	6	8	4 | 5 | 6 | 8 | 10
PTFE BUSHES	7	9	5 | 7 | 10
PTFE BUSHES	8	10	5 | 6 | 8 | 10 | 12 | 15 | 18
PTFE BUSHES	10	12	6 | 8 | 10 | 12 | 15 | 20
PTFE BUSHES	12	14	6 | 8 | 10 | 12 | 15 | 20 | 25
PTFE BUSHES	13	15	10 | 15 | 20
PTFE BUSHES	14	16	10 | 12 | 15 | 20 | 25
PTFE BUSHES	15	17	10 | 12 | 15 | 20 | 25
PTFE BUSHES	16	18	10 | 12 | 15 | 20 | 25
PTFE BUSHES	17	19	12 | 15 | 20
PTFE BUSHES	18	20	10 | 15 | 20 | 25
PTFE BUSHES	20	23	10 | 15 | 20 | 25 | 30

Article number	d	D	Length
PTFE BUSHES	22	25	11 | 15 | 20 | 25 | 30
PTFE BUSHES	24	27	15 | 20 | 25 | 30
PTFE BUSHES	25	28	12 | 15 | 20 | 25 | 30 | 40 | 50
PTFE BUSHES	26	30	20 | 30
PTFE BUSHES	28	32	15 | 20 | 25 | 30
PTFE BUSHES	30	34	10 | 15 | 20 | 25 | 30 | 40
PTFE BUSHES	32	36	20 | 30 | 40
PTFE BUSHES	35	39	15 | 20 | 30 | 35 | 40 | 45 | 50
PTFE BUSHES	37	41	20
PTFE BUSHES	38	42	25
PTFE BUSHES	40	44	20 | 25 | 30 | 40 | 45 | 50
PTFE BUSHES	42	46	20
PTFE BUSHES	45	50	20 | 30 | 40 | 45 | 50
PTFE BUSHES	50	55	20 | 25 | 30 | 40 | 50 | 60
PTFE BUSHES	55	60	20 | 25 | 30 | 35 | 40 | 50 | 55 | 60
PTFE BUSHES	60	65	20 | 30 | 40 | 50 | 60 | 70

d = inside diameter | D = outside diameter | Length = total length

PTFE bearings size chart

STEEL BACKED BUSHNG

Article number	d	D	Length
PTFE BUSHES	65	70	30 | 40 | 50 | 60 | 70
PTFE BUSHES	70	75	40 | 50 | 60 | 70
PTFE BUSHES	75	80	40 | 50 | 60 | 70 | 80
PTFE BUSHES	80	85	40 | 60 | 80 | 100
PTFE BUSHES	85	90	40 | 60 | 100
PTFE BUSHES	90	95	40 | 50 | 60 | 80 | 90 | 100
PTFE BUSHES	95	100	60 | 80 | 100
PTFE BUSHES	100	105	30 | 40 | 50 | 60 | 70 | 80 | 100 | 115
PTFE BUSHES	105	110	60 | 80 | 100 | 115
PTFE BUSHES	110	115	60 | 80 | 100 | 115
PTFE BUSHES	115	120	50 | 60 | 70 | 115
PTFE BUSHES	120	125	50 | 60 | 100
PTFE BUSHES	125	130	60 | 80 | 100
PTFE BUSHES	130	135	60 | 80 | 100
PTFE BUSHES	135	140	60 | 80 | 100
PTFE BUSHES	140	145	60 | 80 | 100
PTFE BUSHES	145	150	60 | 100
PTFE BUSHES	150	155	60 | 100
PTFE BUSHES	155	160	60 | 100
PTFE BUSHES	160	165	60 | 100
PTFE BUSHES	165	170	60 | 100
PTFE BUSHES	170	175	60 | 100
PTFE BUSHES	175	180	60 | 100
PTFE BUSHES	180	185	60 | 80 | 100

Article number	d	D	Length
PTFE BUSHES	185	190	60 | 100
PTFE BUSHES	190	195	60 | 100
PTFE BUSHES	195	200	60 | 100
PTFE BUSHES	200	205	60 | 100
PTFE BUSHES	205	210	60 | 100
PTFE BUSHES	210	215	60 | 100
PTFE BUSHES	215	220	60 | 100
PTFE BUSHES	220	225	60 | 100
PTFE BUSHES	225	230	60 | 100
PTFE BUSHES	230	235	60 | 100
PTFE BUSHES	235	240	60 | 110
PTFE BUSHES	240	245	60 | 100
PTFE BUSHES	245	250	60 | 100
PTFE BUSHES	250	255	60 | 100
PTFE BUSHES	255	260	60 | 100
PTFE BUSHES	260	265	60 | 100
PTFE BUSHES	265	270	60 | 100
PTFE BUSHES	270	275	60 | 100
PTFE BUSHES	275	280	60 | 100
PTFE BUSHES	280	285	60 | 100
PTFE BUSHES	285	290	60 | 100
PTFE BUSHES	290	295	60 | 100
PTFE BUSHES	295	300	60 | 100
PTFE BUSHES	300	305	60 | 100

d = inside diameter | D = outside diameter | Length = total length

PTFE bearings size chart

BRONZE BACKED BUSHING

Article number	d	D	Length
PTFE BUSHES	2	3,5	3
PTFE BUSHES	3	4,5	2
PTFE BUSHES	4	5,5	4 | 6
PTFE BUSHES	5	7	5 | 8 | 10
PTFE BUSHES	6	8	6 | 8 | 10
PTFE BUSHES	8	10	8 | 10 | 12
PTFE BUSHES	10	12	5 | 8 | 10 | 12 | 15 | 20
PTFE BUSHES	12	14	8 | 10 | 12 | 15 | 20 | 25
PTFE BUSHES	13	15	10 | 20
PTFE BUSHES	14	16	12 | 15 | 20 | 25
PTFE BUSHES	15	17	10 | 15 | 20 | 25
PTFE BUSHES	16	18	10 | 12 | 15 | 20 | 25
PTFE BUSHES	17	19	15 | 20
PTFE BUSHES	18	20	15 | 20 | 25
PTFE BUSHES	20	23	10 | 15 | 20 | 25 | 30
PTFE BUSHES	22	25	20 | 25 | 30
PTFE BUSHES	24	27	15 | 20 | 30
PTFE BUSHES	25	28	15 | 20 | 25 | 30 | 50

Article number	d	D	Length
PTFE BUSHES	28	32	20 | 25 | 30
PTFE BUSHES	30	34	20 | 25 | 30 | 40
PTFE BUSHES	32	36	20 | 30
PTFE BUSHES	35	39	20 | 25 | 30 | 35 | 40
PTFE BUSHES	40	44	30 | 40 | 50
PTFE BUSHES	45	50	20 | 30 | 40 | 45 | 50
PTFE BUSHES	50	55	20 | 30 | 40 | 50 | 60
PTFE BUSHES	55	60	20 | 25 | 30 | 40 | 50 | 60
PTFE BUSHES	60	65	30 | 40 | 50 | 60
PTFE BUSHES	65	70	30 | 50 | 60
PTFE BUSHES	70	75	40 | 50 | 60 | 70
PTFE BUSHES	75	80	40 | 50 | 60 | 80
PTFE BUSHES	80	85	60 | 100
PTFE BUSHES	85	90	60 | 100
PTFE BUSHES	90	95	60 | 100
PTFE BUSHES	95	100	60 | 100
PTFE BUSHES	100	105	60 | 115

d = inside diameter | D = outside diameter | Length = total length

PTFE bearings size chart

STAINLESS STEEL BACKING

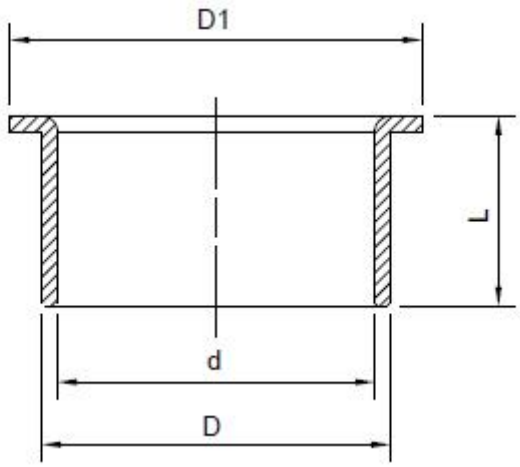
Article number	d	D	Length
PTFE plain bearings	10	12	10 | 12 | 15 | 20
PTFE plain bearings	12	14	10 | 15 | 20
PTFE plain bearings	14	16	15 | 20 | 25
PTFE plain bearings	15	17	10 | 15 | 20
PTFE plain bearings	16	18	10 | 15 | 20 | 25
PTFE plain bearings	17	19	15
PTFE plain bearings	18	20	15 | 20 | 25
PTFE plain bearings	20	23	10 | 15 | 20 | 25 | 30
PTFE plain bearings	22	25	20 | 25 | 30
PTFE plain bearings	24	27	20 | 25 | 30
PTFE plain bearings	25	28	20 | 25 | 30 | 40

Article number	d	D	Length
PTFE plain bearings	28	32	20 | 25 | 30 | 40
PTFE plain bearings	30	34	20 | 25 | 30 | 40
PTFE plain bearings	32	36	20 | 30 | 40
PTFE plain bearings	35	39	20 | 25 | 30 | 40 | 50
PTFE plain bearings	40	44	20 | 25 | 30 | 40 | 50
PTFE plain bearings	45	50	30 | 40 | 50
PTFE plain bearings	50	55	30 | 40 | 50 | 60
PTFE plain bearings	55	60	30 | 40 | 50 | 60
PTFE plain bearings	60	65	40 | 50 | 60
PTFE plain bearings	75	80	40 | 50 | 70
PTFE plain bearings	80	85	40 | 60 | 80

d = inside diameter | D = outside diameter | Length = total length

PTFE flange bearings size chart

Self lubricating flange bearing with PTFE sliding layer.



STEEL BACKING

Article number	d	D	D1	S2	Length
PTFE flange bearings	3	4,5	7	0,75	4
PTFE flange bearings	4	5,5	9	0,75	4
PTFE flange bearings	5	7	10	1	5
PTFE flange bearings	6	8	12	1	4 | 7 | 8
PTFE flange bearings	8	10	15	1	5,5 | 7,5 | 9,5
PTFE flange bearings	10	12	18	1	7 | 9 | 12 | 17
PTFE flange bearings	12	14	20	1	7 | 9 | 12 | 17
PTFE flange bearings	14	16	22	1	12 | 17
PTFE flange bearings	15	17	23	1	9 | 12 | 17
PTFE flange bearings	16	18	24	1	12 | 17
PTFE flange bearings	18	20	26	1	12 | 17 | 22
PTFE flange bearings	20	23	30	1,5	11,5 | 16,5 | 21,5
PTFE flange bearings	25	28	35	1,5	11,5 | 16,5 | 21,5
PTFE flange bearings	30	34	42	2	16 | 26
PTFE flange bearings	35	39	47	2	16 | 26
PTFE flange bearings	40	44	53	2	16 | 26
PTFE flange bearings	45	50	58	2,5	16 | 26 | 40
PTFE flange bearings	50	55	65	2,5	20 | 40
PTFE flange bearings	55	60	70	2,5	30 | 40
PTFE flange bearings	60	65	75	2,5	30 | 40

d = inside diameter | D = outside diameter | D1 = flange diameter | S2 = flange thickness | Length = total length

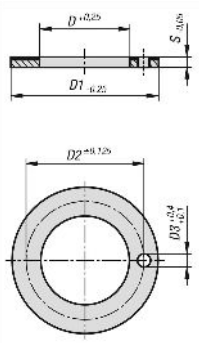
PTFE thrust washers size chart

MATERIAL

Base material, steel.
Intermediate layer sintered bronze.
Bearing surface PTFE.

VERSION

Steel tin-plated.



STEEL BACKING

Article number	D	D1	S	D3	S2	S2
STEEL PTFE THRUST WASHER08	10	20	1,50			
STEEL PTFE THRUST WASHER10	12	24	1,50	1,75	18,00	0,95 / 1,20
STEEL PTFE THRUST WASHER12	14	26	1,50	2,25	20,00	0,95 / 1,20
STEEL PTFE THRUST WASHER14	16	30	1,50	2,25	22,00	0,95 / 1,20
STEEL PTFE THRUST WASHER16	18	32	1,50	2,25	25,00	0,95 / 1,20
STEEL PTFE THRUST WASHER18	20	36	1,50	3,25	28,00	0,95 / 1,20
STEEL PTFE THRUST WASHER20	22	38	1,50	3,25	30,00	0,95 / 1,20
STEEL PTFE THRUST WASHER22	24	42	1,50	3,25	33,00	0,95 / 1,20
STEEL PTFE THRUST WASHER24	26	44	1,50	3,25	35,00	0,95 / 1,20
STEEL PTFE THRUST WASHER25	28	48	1,50	4,25	38,00	0,95 / 1,20
STEEL PTFE THRUST WASHER30	32	54	1,50	4,25	43,00	0,95 / 1,20
STEEL PTFE THRUST WASHER35	38	62	1,50	4,25	50,00	0,95 / 1,20
STEEL PTFE THRUST WASHER40	42	66	1,50	4,25	54,00	0,95 / 1,20
STEEL PTFE THRUST WASHER45	48	74	2,00	4,25	61,00	1,45 / 1,70
STEEL PTFE THRUST WASHER50	52	78	2,00	4,25	65,00	1,45 / 1,70
STEEL PTFE THRUST WASHER60	62	90	2,00	4,25	76,00	1,45 / 1,70

D = inside diameter | D1 = outside diameter | S = thickness | D3 = locking hole | d2 = perforation circle | S2 = fitting depth

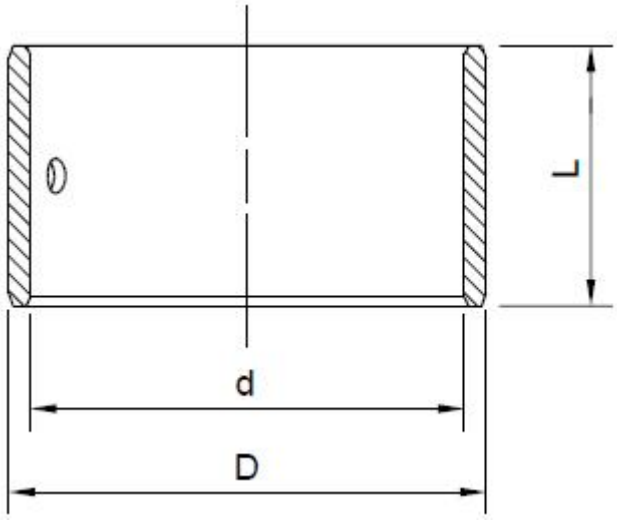
PTFE strips size chart

STEEL BACKING

Article number	L	B	B1	S3
STEEL PTFE STRIPS 500 x 200 x 0,75	500	200	190	0,72 (± 0,02)
STEEL PTFE STRIPS 500 x 200 x 1,00	500	200	190	0,99 (± 0,02)
STEEL PTFE STRIPS 500 x 254 x 1,50	500	254	240	1,50 (± 0,02)
STEEL PTFE STRIPS 500 x 254 x 2,00	500	254	240	1,98 (± 0,02)
STEEL PTFE STRIPS 500 x 254 x 2,50	500	254	240	2,48 (± 0,02)
STEEL PTFE STRIPS 500 x 254 x 3,00	500	254	240	3,04 (± 0,02)

L = length | B = width | B1 = usable width | S3= thickness

POM bearings size chart



BEARINGS

Article number	d	D	Length
POM BEARING	8	10	8 | 10 | 12
POM BEARING	10	12	10 | 12 | 15 | 20
POM BEARING	12	14	10 | 12 | 15 | 20
POM BEARING	14	16	15 | 20 | 25
POM BEARING	15	17	15 | 20 | 25
POM BEARING	16	18	15 | 20 | 25
POM BEARING	18	20	15 | 20 | 25
POM BEARING	20	23	10 | 15 | 20 | 25 | 30
POM BEARING	22	25	15 | 20 | 25 | 30
POM BEARING	24	27	15 | 20 | 25 | 30
POM BEARING	25	28	15 | 20 | 25 | 30
POM BEARING	28	32	20 | 25 | 30
POM BEARING	30	34	20 | 25 | 30 | 40
POM BEARING	32	36	20 | 25 | 30 | 40
POM BEARING	35	39	20 | 25 | 30 | 35 | 40 | 50
POM BEARING	37	41	20

Article number	d	D	Length
POM BEARING	40	44	20 | 30 | 40 | 50
POM BEARING	45	50	20 | 30 | 40 | 45 | 50
POM BEARING	50	55	20 | 30 | 40 | 50 | 60
POM BEARING	55	60	20 | 30 | 40 | 50 | 60
POM BEARING	60	65	30 | 40 | 50 | 60 | 70
POM BEARING	65	70	30 | 40 | 50 | 60 | 70
POM BEARING	70	75	40 | 50 | 60 | 65 | 70 | 80
POM BEARING	75	80	40 | 50 | 60 | 80
POM BEARING	80	85	40 | 50 | 60 | 80 | 100
POM BEARING	85	90	40 | 60 | 80 | 100
POM BEARING	95	100	60 | 100
POM BEARING	100	105	50 | 60 | 70 | 95 | 115
POM BEARING	105	110	60 | 80 | 100 | 115
POM BEARING	110	115	60 | 110
POM BEARING	115	120	70
POM BEARING	120	125	60 | 100

d = inside diameter | D = outside diameter | Length = total length

POM bearings size chart

BEARINGS

Article number	d	D	Length
POM BEARING	125	130	60 | 100
POM BEARING	130	135	60 | 100
POM BEARING	135	140	60 | 100
POM BEARING	140	145	60 | 100
POM BEARING	145	150	60 | 100
POM BEARING	150	155	60 | 100
POM BEARING	160	165	60 | 100
POM BEARING	165	170	60 | 100
POM BEARING	170	175	60 | 100
POM BEARING	180	185	60 | 100

Article number	d	D	Length
POM BEARING	190	195	60 | 100
POM BEARING	200	205	60 | 100
POM BEARING	220	225	60 | 100
POM BEARING	225	230	60 | 100
POM BEARING	240	245	60 | 100
POM BEARING	250	255	60 | 100
POM BEARING	260	265	60 | 100
POM BEARING	280	285	60 | 100
POM BEARING	300	305	60 | 100

d = inside diameter | D = outside diameter | Length = total length

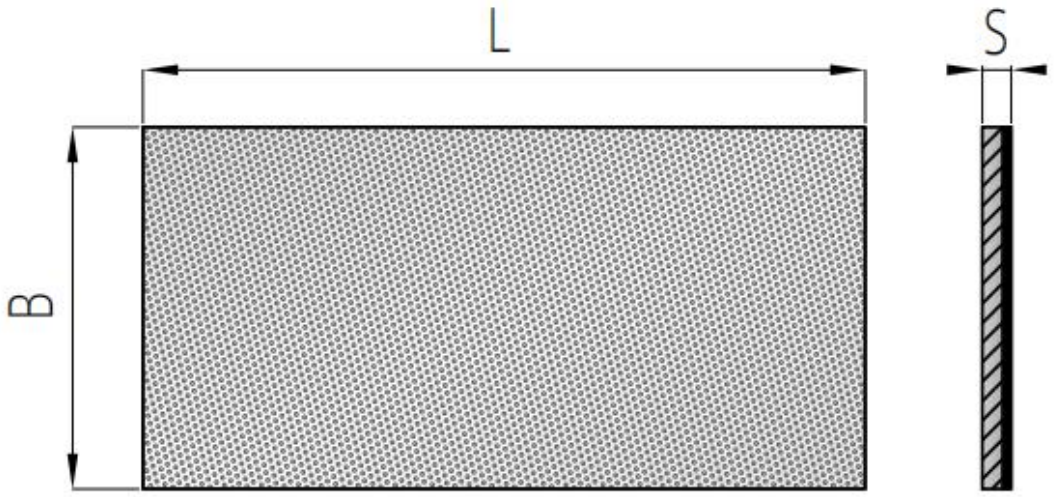
POM WASHER SIZE CHART

PLAIN BEARING POM STRIPS

Article number	d	D	D1	S2		Length
POM WASHER 08	10	20	1,535			
POM WASHER 10	12	24	1,535	1,75	18,00	0,95 / 1,20
POM WASHER 12	14	26	1,535	2,25	20,00	0,95 / 1,20
POM WASHER 14	16	30	1,535	2,25	22,00	0,95 / 1,20
POM WASHER 16	18	32	1,535	2,25	25,00	0,95 / 1,20
POM WASHER 18	20	36	1,535	3,25	28,00	0,95 / 1,20
POM WASHER 20	22	38	1,535	3,25	30,00	0,95 / 1,20
POM WASHER 22	24	42	1,535	3,25	33,00	0,95 / 1,20
POM WASHER 24	26	44	1,535	3,25	35,00	0,95 / 1,20
POM WASHER 25	28	48	1,535	4,25	38,00	0,95 / 1,20
POM WASHER 30	32	54	1,535	4,25	43,00	0,95 / 1,20
POM WASHER 35	38	62	1,535	4,25	50,00	0,95 / 1,20
POM WASHER 40	42	66	1,535	4,25	54,00	0,95 / 1,20
POM WASHER 45	48	74	2,555	4,25	61,00	1,45 / 1,70
POM WASHER 50	52	78	2,555	4,25	65,00	1,45 / 1,70
POM WASHER 60	62	90	2,555	4,25	76,00	1,45 / 1,70

d = inside diameter | D = outside diameter | S = thickness | d2 = perforation circle | d3 = locking hole | S2 = fitting depth

POM sliding plates size chart

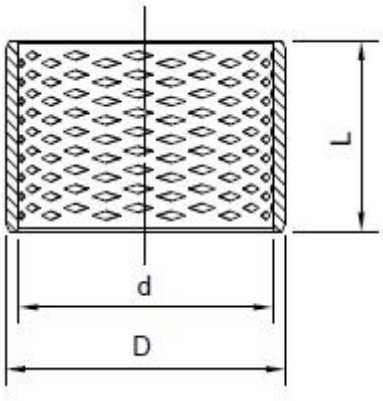


SLIDING PLATES

Article number	L	B	B1	S
Slide Plate 500 x 160 x 1,00	500	160	150	1,05 (± 0,02)
Slide Plate 500 x 200 x 1,50	500	200	190	1,54 (± 0,02)
Slide Plate 500 x 200 x 2,00	500	200	190	2,03 (± 0,02)
Slide Plate 500 x 200 x 2,50	500	200	190	2,55 (± 0,02)
Slide Plate 500 x 254 x 2,50	500	254	240	2,48 (± 0,02)

L = length | B = width | S = thickness

Wrapped bronze bearings size chart



BEARINGS

Article number	d	D	Length
Wrapped Bronze Plain Bearing 010.Graphite Plugs	10	12	8 | 10 | 15 | 20
Wrapped Bronze Plain Bearing 012.Graphite Plugs	12	14	8 | 10 | 12 | 15 | 20
Wrapped Bronze Plain Bearing 014.Graphite Plugs	14	16	10 | 15 | 20 | 25
Wrapped Bronze Plain Bearing 015.Graphite Plugs	15	17	10 | 15 | 20 | 25
Wrapped Bronze Plain Bearing 016.Graphite Plugs	16	18	10 | 15 | 20 | 25
Wrapped Bronze Plain Bearing 017.Graphite Plugs	17	19	15 | 20
Wrapped Bronze Plain Bearing 018.Graphite Plugs	18	20	10 | 15 | 20 | 25
Wrapped Bronze Plain Bearing 020.Graphite Plugs	20	23	10 | 15 | 20 | 25 | 30
Wrapped Bronze Plain Bearing 022.Graphite Plugs	22	25	8 | 10 | 15 | 20 | 25 | 30 | 40
Wrapped Bronze Plain Bearing 024.Graphite Plugs	24	27	15 | 20 | 25 | 30
Wrapped Bronze Plain Bearing 025.Graphite Plugs	25	28	15 | 20 | 25 | 30 | 50
Wrapped Bronze Plain Bearing 028.Graphite Plugs	28	32	15 | 20 | 25 | 30
Wrapped Bronze Plain Bearing 030.Graphite Plugs	30	34	15 | 20 | 25 | 30 | 35 | 40
Wrapped Bronze Plain Bearing 032.Graphite Plugs	32	36	15 | 20 | 25 | 30 | 35 | 40 | 50
Wrapped Bronze Plain Bearing 035.Graphite Plugs	35	39	15 | 20 | 25 | 30 | 35 | 40 | 50
Wrapped Bronze Plain Bearing 040.Graphite Plugs	40	44	20 | 25 | 30 | 35 | 40 | 50 | 60

Article number	d	D	Length
Wrapped Bronze Plain Bearing 045.Graphite Plugs	45	50	25 | 30 | 35 | 40 | 50 | 60
Wrapped Bronze Plain Bearing 050.Graphite Plugs	50	55	25 | 30 | 35 | 40 | 50 | 60
Wrapped Bronze Plain Bearing 055.Graphite Plugs	55	60	25 | 30 | 35 | 40 | 50 | 60
Wrapped Bronze Plain Bearing 060.Graphite Plugs	60	65	30 | 35 | 40 | 50 | 60 | 70
Wrapped Bronze Plain Bearing 065.Graphite Plugs	65	70	30 | 35 | 40 | 50 | 60 | 70
Wrapped Bronze Plain Bearing 070.Graphite Plugs	70	75	35 | 40 | 50 | 60 | 70 | 80
Wrapped Bronze Plain Bearing 075.Graphite Plugs	75	80	35 | 40 | 50 | 60 | 70 | 80
Wrapped Bronze Plain Bearing 080.Graphite Plugs	80	85	40 | 60 | 80
Wrapped Bronze Plain Bearing 085.Graphite Plugs	85	90	40 | 60 | 80
Wrapped Bronze Plain Bearing 090.Graphite Plugs	90	95	40 | 50 | 60 | 80 | 90 | 100
Wrapped Bronze Plain Bearing 095.Graphite Plugs	95	100	40 | 60 | 80 | 100
Wrapped Bronze Plain Bearing 100.Graphite Plugs	100	105	40 | 60 | 80 | 100
Wrapped Bronze Plain Bearing 105.Graphite Plugs	105	110	60 | 100
Wrapped Bronze Plain Bearing 110.Graphite Plugs	110	115	60 | 100
Wrapped Bronze Plain Bearing 115.Graphite Plugs	115	120	60 | 100
Wrapped Bronze Plain Bearing 120.Graphite Plugs	120	125	60 | 100

d = inside diameter | D = outside diameter | Length = total length

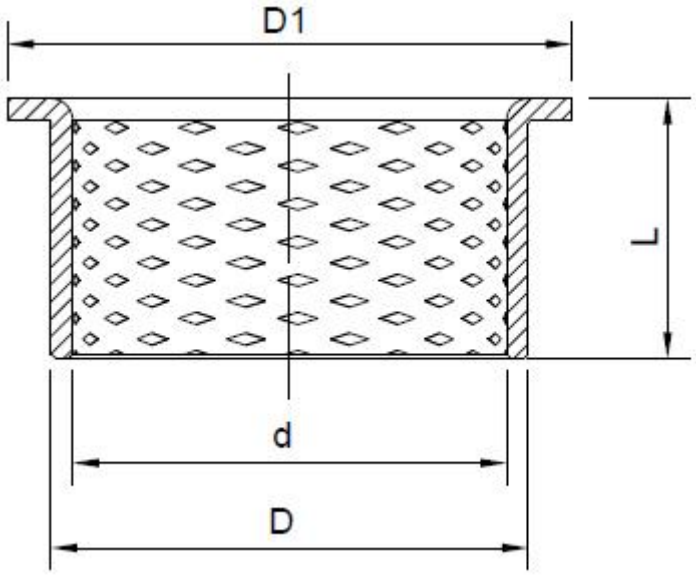
Wrapped bronze bearings size chart

BEARINGS

Article number	d	D	Length
Wrapped Bronze Plain Bearing 125.Graphite Plugs	125	130	60 | 100
Wrapped Bronze Plain Bearing 130.Graphite Plugs	130	135	60 | 100
Wrapped Bronze Plain Bearing 135.Graphite Plugs	135	140	60 | 100
Wrapped Bronze Plain Bearing 140.Graphite Plugs	140	145	60 | 100
Wrapped Bronze Plain Bearing 145.Graphite Plugs	145	150	60 | 100
Wrapped Bronze Plain Bearing 150.Graphite Plugs	150	155	60 | 80 | 100
Wrapped Bronze Plain Bearing 155.Graphite Plugs	155	160	60 | 100
Wrapped Bronze Plain Bearing 160.Graphite Plugs	160	165	60 | 100
Wrapped Bronze Plain Bearing 165.Graphite Plugs	165	170	60 | 100
Wrapped Bronze Plain Bearing 170.Graphite Plugs	170	175	60 | 100
Wrapped Bronze Plain Bearing 175.Graphite Plugs	175	180	60 | 100
Wrapped Bronze Plain Bearing 180.Graphite Plugs	180	185	60 | 100
Wrapped Bronze Plain Bearing 185.Graphite Plugs	185	190	60 | 100
Wrapped Bronze Plain Bearing 190.Graphite Plugs	190	195	60 | 100
Wrapped Bronze Plain Bearing 195.Graphite Plugs	195	200	60 | 100

Article number	d	D	Length
Wrapped Bronze Plain Bearing 200.Graphite Plugs	200	205	60 | 100
Wrapped Bronze Plain Bearing 205.Graphite Plugs	205	210	60 | 100
Wrapped Bronze Plain Bearing 210.Graphite Plugs	210	215	60 | 100
Wrapped Bronze Plain Bearing 215.Graphite Plugs	215	220	60 | 100
Wrapped Bronze Plain Bearing 220.Graphite Plugs	220	225	60 | 100
Wrapped Bronze Plain Bearing 225.Graphite Plugs	225	230	60 | 100
Wrapped Bronze Plain Bearing 230.Graphite Plugs	230	235	60 | 100
Wrapped Bronze Plain Bearing 240.Graphite Plugs	240	245	60 | 100
Wrapped Bronze Plain Bearing 250.Graphite Plugs	250	255	60 | 100
Wrapped Bronze Plain Bearing 260.Graphite Plugs	260	265	60 | 100
Wrapped Bronze Plain Bearing 270.Graphite Plugs	270	275	60 | 100
Wrapped Bronze Plain Bearing 280.Graphite Plugs	280	285	60 | 100
Wrapped Bronze Plain Bearing 290.Graphite Plugs	290	295	60 | 100
Wrapped Bronze Plain Bearing 300.Graphite Plugs	300	305	60 | 100

Wrapped bronze flanged bearings size chart



FLANGED BEARINGS

Article number	d	D	D1	T	Length
Wrapped Bronze Flange Bearing 025.Graphite Plugs	25	28	35	1,5	15 | 25
Wrapped Bronze Flange Bearing 030.Graphite Plugs	30	34	45	2	20 | 30
Wrapped Bronze Flange Bearing 035.Graphite Plugs	35	39	50	2	20 | 30 | 35
Wrapped Bronze Flange Bearing 040.Graphite Plugs	40	44	55	2	25 | 30 | 40
Wrapped Bronze Flange Bearing 045.Graphite Plugs	45	50	60	2,5	25 | 30 | 40 | 45 | 50
Wrapped Bronze Flange Bearing 050.Graphite Plugs	50	55	65	2,5	25 | 30 | 40 | 50
Wrapped Bronze Flange Bearing 055.Graphite Plugs	55	60	70	2,5	30 | 50
Wrapped Bronze Flange Bearing 060.Graphite Plugs	60	65	75	2,5	30 | 50 | 60
Wrapped Bronze Flange Bearing 065.Graphite Plugs	65	70	80	2,5	30 | 50 | 60
Wrapped Bronze Flange Bearing 070.Graphite Plugs	70	75	85	2,5	40 | 60 | 70
Wrapped Bronze Flange Bearing 075.Graphite Plugs	75	80	90	2,5	40 | 60 | 70
Wrapped Bronze Flange Bearing 080.Graphite Plugs	80	85	100	2,5	40 | 50 | 80
Wrapped Bronze Flange Bearing 090.Graphite Plugs	90	95	110	2,5	50 | 90
Wrapped Bronze Flange Bearing 095.Graphite Plugs	95	100	115	2,5	50 | 90
Wrapped Bronze Flange Bearing 100.Graphite Plugs	100	105	120	2,5	50 | 90
Wrapped Bronze Flange Bearing 110.Graphite Plugs	110	115	130	2,5	50 | 90
Wrapped Bronze Flange Bearing 120.Graphite Plugs	120	125	140	2,5	50 | 90

d = inside diameter | D = outside diameter | D1 = flange diameter |T = flange thickness | Length =total length

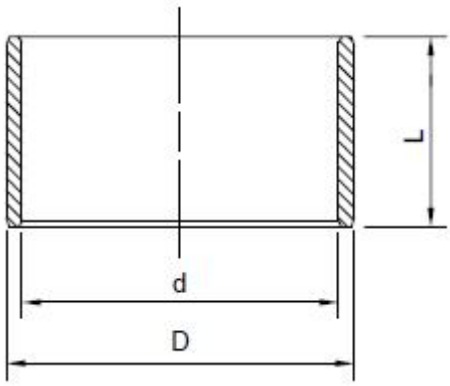
Wrapped bronze flanged bearings size chart

FLANGED BEARINGS

Article number	d	D	D1	T	Length
Wrapped Bronze Flange Bearing 130.Graphite Plugs	130	135	155	2,5	60 | 90
Wrapped Bronze Flange Bearing 140.Graphite Plugs	140	145	165	2,5	60 | 90
Wrapped Bronze Flange Bearing 150.Graphite Plugs	150	155	180	2,5	60 | 90
Wrapped Bronze Flange Bearing 160.Graphite Plugs	160	165	190	2,5	60 | 90
Wrapped Bronze Flange Bearing 170.Graphite Plugs	170	175	200	2,5	60 | 90
Wrapped Bronze Flange Bearing 180.Graphite Plugs	180	185	215	2,5	60 | 90
Wrapped Bronze Flange Bearing 190.Graphite Plugs	190	195	225	2,5	60 | 90
Wrapped Bronze Flange Bearing 200.Graphite Plugs	200	205	235	2,5	60 | 90
Wrapped Bronze Flange Bearing 225.Graphite Plugs	225	230	260	2,5	60 | 90
Wrapped Bronze Flange Bearing 250.Graphite Plugs	250	255	290	2,5	60 | 90
Wrapped Bronze Flange Bearing 265.Graphite Plugs	265	270	305	2,5	60 | 90
Wrapped Bronze Flange Bearing 285.Graphite Plugs	285	290	325	2,5	60 | 90
Wrapped Bronze Flange Bearing 300.Graphite Plugs	300	305	340	2,5	60 | 90

d = inside diameter | D = outside diameter | D1 = flange diameter | T = flange thickness | Length =total length

Solid bronze bearings size chart



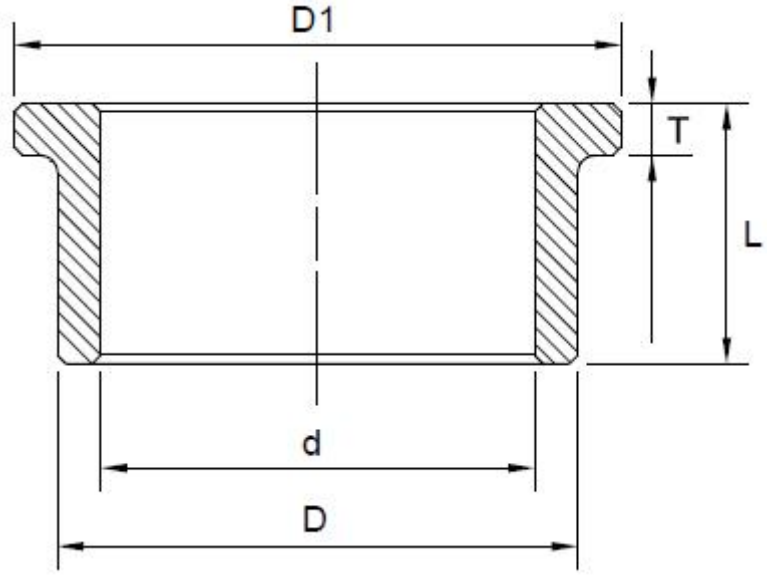
SOLID BRONZE BEARINGS

Article number	d	D	Length
Solid Bronze Bearing 005/010 X Graphite Plugs	5	10	6 | 8 | 10
Solid Bronze Bearing 006/013 X Graphite Plugs	6	13	6 | 8 | 12
Solid Bronze Bearing 007/012 X Graphite Plugs	7	12	8 | 10 | 12
Solid Bronze Bearing 008/014 X Graphite Plugs	8	14	8 | 12 | 16
Solid Bronze Bearing 010/016 X Graphite Plugs	10	16	10 | 16 | 20
Solid Bronze Bearing 012/018 X Graphite Plugs	12	18	12 | 16 | 25
Solid Bronze Bearing 014/020 X Graphite Plugs	14	20	12 | 20 | 30
Solid Bronze Bearing 015/022 X Graphite Plugs	15	22	16 | 20 | 30
Solid Bronze Bearing 016/022 X Graphite Plugs	16	22	16 | 20 | 30
Solid Bronze Bearing 017/025 X Graphite Plugs	17	25	16 | 20 | 30
Solid Bronze Bearing 018/025 X Graphite Plugs	18	25	16 | 20 | 30
Solid Bronze Bearing 020/028 X Graphite Plugs	20	28	20 | 30 | 40
Solid Bronze Bearing 022/032 X Graphite Plugs	22	32	20 | 30 | 40
Solid Bronze Bearing 025/035 X Graphite Plugs	25	35	25 | 35 | 5
Solid Bronze Bearing 028/040 X Graphite Plugs	28	40	25 | 50
Solid Bronze Bearing 030/040 X Graphite Plugs	30	40	30 | 45 | 60
Solid Bronze Bearing 035/045 X Graphite Plugs	35	45	35 | 50 | 70
Solid Bronze Bearing 040/050 X Graphite Plugs	40	50	40 | 60 | 80
Solid Bronze Bearing 045/055 X Graphite Plugs	45	55	45 | 60 | 80
Solid Bronze Bearing 050/060 X Graphite Plugs	50	60	50 | 70 | 100
Solid Bronze Bearing 055/070 X Graphite Plugs	55	70	50 | 70 | 100

Article number	d	D	Length
Solid Bronze Bearing 060/075 X Graphite Plugs	60	75	60 | 90 | 120
Solid Bronze Bearing 065/080 X Graphite Plugs	65	80	60 | 90 | 120
Solid Bronze Bearing 070/085 X Graphite Plugs	70	85	60 | 90 | 120
Solid Bronze Bearing 075/090 X Graphite Plugs	75	90	70 | 100 | 140
Solid Bronze Bearing 080/095 X Graphite Plugs	80	95	70 | 100 | 140
Solid Bronze Bearing 085/100 X Graphite Plugs	85	100	70 | 100 | 140
Solid Bronze Bearing 090/110 X Graphite Plugs	90	110	80 | 120 | 160
Solid Bronze Bearing 095/115 X Graphite Plugs	95	115	80 | 120 | 160
Solid Bronze Bearing 100/120 X Graphite Plugs	100	120	80 | 120 | 160
Solid Bronze Bearing 110/130 X Graphite Plugs	110	130	80 | 140 | 200
Solid Bronze Bearing 120/140 X Graphite Plugs	120	140	80 | 140 | 200
Solid Bronze Bearing 130/150 X Graphite Plugs	130	150	90 | 140 | 200
Solid Bronze Bearing 140/160 X Graphite Plugs	140	160	90 | 160 | 200
Solid Bronze Bearing 150/170 X Graphite Plugs	150	170	100 | 160
Solid Bronze Bearing 160/180 X Graphite Plugs	160	180	100 | 160
Solid Bronze Bearing 170/190 X Graphite Plugs	170	190	100 | 160
Solid Bronze Bearing 180/200 X Graphite Plugs	180	200	100
Solid Bronze Bearing 190/210 X Graphite Plugs	190	210	120
Solid Bronze Bearing 200/220 X Graphite Plugs	200	220	120
Solid Bronze Bearing 210/230 X Graphite Plugs	210	230	120

d = inside diameter | D = outside diameter | Length = total length

Solid flange bronze bearings size chart



FLANGED BEARINGS

Article number	d	D	D1	T	L
Flanged Bearing 005/010 X Graphite Plugs - 012 X 02	5	10	12	2	6
Flanged Bearing 006/012 X Graphite Plugs - 014 X 02	6	12	14	2	6
Flanged Bearing 008/014 X Graphite Plugs - 018 X 03	8	14	18	3	8
Flanged Bearing 010/016 X Graphite Plugs - 020 X 03	10	16	20	3	8 | 10
Flanged Bearing 012/018 X Graphite Plugs - 022 X 03	12	18	22	3	10 | 12
Flanged Bearing 014/020 X Graphite Plugs - 025 X 03	14	20	25	3	10 | 12
Flanged Bearing 015/022 X Graphite Plugs - 028 X 03	15	22	28	3	12 | 16
Flanged Bearing 016/022 X Graphite Plugs - 028 X 04	16	22	28	4	12 | 16
Flanged Bearing 018/025 X Graphite Plugs - 032 X 04	18	25	32	4	12 | 16
Flanged Bearing 020/028 X Graphite Plugs - 035 X 04	20	28	35	4	16 | 20
Flanged Bearing 022/032 X Graphite Plugs - 040 X 05	22	32	40	5	16 | 20
Flanged Bearing 025/035 X Graphite Plugs - 045 X 05	25	35	45	5	16 | 25
Flanged Bearing 028/040 X Graphite Plugs - 050 X 05	28	40	50	5	16 | 25
Flanged Bearing 030/040 X Graphite Plugs - 050 X 05	30	40	50	5	20 | 30
Flanged Bearing 035/045 X Graphite Plugs - 055 X 05	35	45	55	5	20 | 35
Flanged Bearing 040/050 X Graphite Plugs - 060 X 06	40	50	60	6	25 | 40
Flanged Bearing 045/055 X Graphite Plugs - 065 X 06	45	55	65	6	30 | 45
Flanged Bearing 050/060 X Graphite Plugs - 070 X 06	50	60	70	6	30 | 50
Flanged Bearing 055/070 X Graphite Plugs - 080 X 08	55	70	80	8	30 | 50
Flanged Bearing 060/075 X Graphite Plugs - 085 X 08	60	75	85	8	35 | 60
Flanged Bearing 065/080 X Graphite Plugs - 090 X 08	65	80	90	8	35 | 60

d = inside diameter | D = outside diameter | D1 = flange diameter | T = flange thickness | L = total length

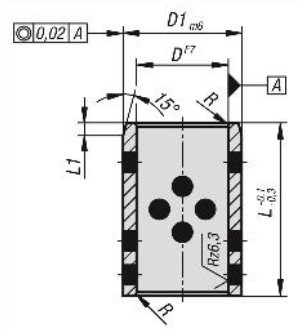
Solid Flange bronze bearings size chart

FLANGED BEARINGS

Article number	d	D	D1	B	Length
Flanged Bearing 070/085 X Graphite Plugs - 095 X 08	70	85	95	8	35 | 60
Flanged Bearing 075/090 X Graphite Plugs - 100 X 08	75	90	100	8	40 | 70
Flanged Bearing 080/095 X Graphite Plugs - 105 X 08	80	95	105	8	40 | 70
Flanged Bearing 085/100 X Graphite Plugs - 110 X 08	85	100	110	8	40 | 70
Flanged Bearing 090/110 X Graphite Plugs - 120 X 08	90	110	120	8	50 | 80
Flanged Bearing 095/115 X Graphite Plugs - 125 X 08	95	115	125	8	50 | 80
Flanged Bearing 100/120 X Graphite Plugs - 130 X 08	100	120	130	8	50 | 80
Flanged Bearing 105/125 X Graphite Plugs - 135 X 08	105	125	135	8	50 | 80
Flanged Bearing 110/130 X Graphite Plugs - 140 X 08	110	130	140	8	50 | 80
Flanged Bearing 120/140 X Graphite Plugs - 150 X 08	120	140	150	8	50 | 80
Flanged Bearing 130/150 X Graphite Plugs - 165 X 10	130	150	165	10	60 | 90
Flanged Bearing 140/160 X Graphite Plugs - 175 X 10	140	160	175	10	60 | 90
Flanged Bearing 150/170 X Graphite Plugs - 185 X 10	150	170	185	10	70 | 100
Flanged Bearing 160/180 X Graphite Plugs - 195 X 10	160	180	195	10	70 | 100
Flanged Bearing 170/190 X Graphite Plugs - 205 X 10	170	190	205	10	70 | 100
Flanged Bearing 180/200 X Graphite Plugs - 215 X 10	180	200	215	10	100
Flanged Bearing 190/210 X Graphite Plugs - 225 X 10	190	210	225	10	120
Flanged Bearing 200/220 X Graphite Plugs - 235 X 10	200	220	235	10	120

d = inside diameter | D = outside diameter | D1 = flange diameter | B = flange thickness | Length = total length

Maintenance-free plain bearings with lubricating plugs size chart



BEARINGS

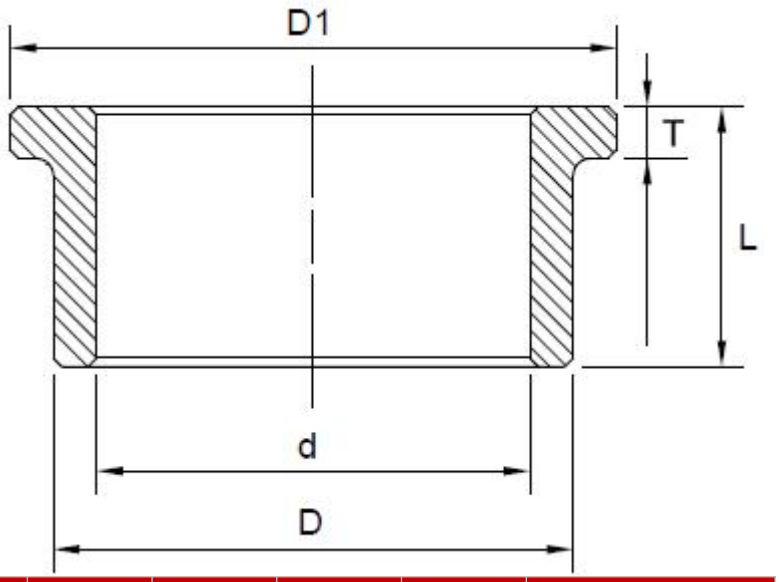
Article number	D	D1	Length
Plain Bearings 008/012 X Graphite Plugs	8	12	8 | 10 | 12 | 15
Plain Bearings 010/014 X Graphite Plugs	10	14	8 | 10 | 12 | 15 | 20
Plain Bearings 012/018 X Graphite Plugs	12	18	10 | 12 | 15 | 16 | 20 | 25 | 30
Plain Bearings 013/019 X Graphite Plugs	13	19	10 | 15 | 16
Plain Bearings 014/020 X Graphite Plugs	14	20	10 | 12 | 15 | 20 | 25 | 30
Plain Bearings 015/021 X Graphite Plugs	15	21	10 | 12 | 15 | 16 | 20 | 25 | 30
Plain Bearings 016/022 X Graphite Plugs	16	22	10 | 12 | 15 | 16 | 20 | 25 | 30 | 35 | 40
Plain Bearings 018/024 X Graphite Plugs	18	24	12 | 15 | 16 | 20 | 25 | 30 | 35 | 40
Plain Bearings 020/028 X Graphite Plugs	20	28	10 | 12 | 15 | 16 | 20 | 25 | 30 | 35 | 40 | 50
Plain Bearings 020/030 X Graphite Plugs	20	30	16 | 20 | 25 | 30 | 35 | 40
Plain Bearings 022/032 X Graphite Plugs	22	32	12 | 15 | 20 | 25
Plain Bearings 025/033 X Graphite Plugs	25	33	12 | 15 | 16 | 20 | 25 | 30 | 35 | 40 | 50 | 60
Plain Bearings 025/035 X Graphite Plugs	25	35	16 | 20 | 25 | 30 | 35 | 40 | 45 | 50
Plain Bearings 030/038 X Graphite Plugs	30	38	15 | 20 | 25 | 30 | 35 | 40 | 50 | 60
Plain Bearings 030/040 X Graphite Plugs	30	40	20 | 25 | 30 | 35 | 40 | 45 | 50 | 60
Plain Bearings 035/044 X Graphite Plugs	35	44	30 | 35 | 40 | 50 | 60
Plain Bearings 035/045 X Graphite Plugs	35	45	20 | 25 | 30 | 35 | 40 | 50 | 60
Plain Bearings 040/050 X Graphite Plugs	40	50	20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80
Plain Bearings			

Article number	D	D1	Length
Plain Bearings 050/060 X Graphite Plugs	50	60	30 | 35 | 40 | 50 | 60 | 70 | 80
Plain Bearings 050/062 X Graphite Plugs	50	62	30 | 35 | 40 | 50 | 60 | 70
Plain Bearings 050/065 X Graphite Plugs	50	65	30 | 40 | 50 | 60 | 70 | 80 | 100
Plain Bearings 055/070 X Graphite Plugs	55	70	40 | 50 | 60 | 70
Plain Bearings 060/074 X Graphite Plugs	60	74	30 | 35 | 40 | 50 | 60 | 70 | 80
Plain Bearings 060/075 X Graphite Plugs	60	75	30 | 35 | 40 | 50 | 60 | 70 | 80 | 100
Plain Bearings 065/080 X Graphite Plugs	65	80	50 | 60 | 70 | 80
Plain Bearings 070/085 X Graphite Plugs	70	85	35 | 40 | 50 | 60 | 70 | 80 | 100
Plain Bearings 070/090 X Graphite Plugs	70	90	50 | 60 | 70 | 80
Plain Bearings 075/090 X Graphite Plugs	75	90	60 | 70 | 80 | 100
Plain Bearings 075/095 X Graphite Plugs	75	95	60 | 70 | 80 | 100
Plain Bearings 080/096 X Graphite Plugs	80	96	40 | 50 | 60 | 70 | 80 | 100 | 120
Plain Bearings 080/100 X Graphite Plugs	80	100	40 | 50 | 60 | 70 | 80 | 100 | 120 | 140
Plain Bearings 090/110 X Graphite Plugs	90	110	50 | 60 | 70 | 80 | 100 | 120
Plain Bearings 100/120 X Graphite Plugs	100	120	60 | 70 | 80 | 100 | 120 | 140
Plain Bearings 110/130 X Graphite Plugs	110	130	80 | 100 | 120
Plain Bearings 120/140 X Graphite Plugs	120	140	80 | 100 | 120 | 140
Plain Bearings 125/145 X Graphite Plugs	125	145	100 | 120
Plain Bearings 130/150 X Graphite Plugs	130	150	100 | 130
Plain Bearings 140/160 X Graphite Plugs	140	160	100 | 140
Plain Bearings 150/170 X Graphite Plugs	150	170	100 | 150
Plain Bearings 160/180 X Graphite Plugs	160	180	100 | 150

d = inside diameter | D = outside diameter | Length = total length

Maintenance-Free Flange Bearings with Lubricating Plugs Size Chart

FLANGED BEARINGS



Article number	d	D	D1	T	Length
Flange Bearings 010/014 X Graphite Plugs - 022 X 02	10	14	22	2	10 | 15 | 20
Flange Bearings 012/018 X Graphite Plugs - 025 X 03	12	18	25	3	10 | 15 | 20
Flange Bearings 014/020 X Graphite Plugs - 027 X 03	14	20	27	3	15 | 20
Flange Bearings 015/021 X Graphite Plugs - 028 X 03	15	21	28	3	10 | 15 | 20 | 25 | 30
Flange Bearings 016/022 X Graphite Plugs - 029 X 03	16	22	29	3	15 | 20 | 25 | 30
Flange Bearings 020/030 X Graphite Plugs - 040 X 05	20	30	40	5	15 | 20 | 25 | 30 | 40
Flange Bearings 025/035 X Graphite Plugs - 045 X 05	25	35	45	5	15 | 20 | 25 | 30 | 40
Flange Bearings 030/040 X Graphite Plugs - 050 X 05	30	40	50	5	20 | 25 | 30 | 35 | 40 | 50
Flange Bearings 035/045 X Graphite Plugs - 060 X 05	35	45	60	5	20 | 30 | 40 | 50
Flange Bearings 040/050 X Graphite Plugs - 065 X 05	40	50	65	5	20 | 30 | 40 | 50
Flange Bearings 045/055 X Graphite Plugs - 070 X 05	45	55	70	5	30 | 40 | 50 | 60
Flange Bearings 050/060 X Graphite Plugs - 075 X 05	50	60	75	5	30 | 40 | 50 | 60
Flange Bearings 055/065 X Graphite Plugs - 080 X 05	55	65	80	5	40 | 60
Flange Bearings 060/075 X Graphite Plugs - 090 X 08	60	75	90	7,5	40 | 50 | 60 | 80
Flange Bearings 070/085 X Graphite Plugs - 105 X 08	70	85	105	7,5	50 | 80
Flange Bearings 075/090 X Graphite Plugs - 110 X 08	75	90	110	7,5	60
Flange Bearings 080/100 X Graphite Plugs - 120 X 10	80	100	120	10	60 | 70 | 80 | 100
Flange Bearings 090/110 X Graphite Plugs - 130 X 10	90	110	130	10	60 | 80
Flange Bearings 100/120 X Graphite Plugs - 150 X 10	100	120	150	10	50 | 80 | 100
Flange Bearings 120/140 X Graphite Plugs - 170 X 10	120	140	170	10	80 | 100
Flange Bearings 065/080 X Graphite Plugs - 090 X 08	65	80	90	8	35 | 60

d = inside diameter | D = outside diameter | D1 = flange diameter | T = flange thickness | Length = total length

Maintenance-free thrust washers with lubricating plugs size chart

THRUST WASHERS

Article number	d	D	B	W	Quantity	d2	Countersunk screw DIN 7991
Thrust Washer 010.2/030 X 03	10.2	30	3	20	2	3,5	M3
Thrust Washer 012.2/040 X 03	12.2	40	3	28	2	3,5	M3
Thrust Washer 013.2/040 X 03	13.2	40	3	28	2	3,5	M3
Thrust Washer 014.2/040 X 03	14.2	40	3	28	2	3,5	M3
Thrust Washer 015.2/050 X 03	15.2	50	3	35	2	3,5	M3
Thrust Washer 016.2/050 X 03	16.2	50	3	35	2	3,5	M3
Thrust Washer 018.2/050 X 03	18.2	50	3	35	2	3,5	M3
Thrust Washer 020.2/050 X 05	20.2	50	5	35	2	6	M5
Thrust Washer 025.2/055 X 05	25.2	55	5	40	2	6	M5
Thrust Washer 030.2/060 X 05	30.2	60	5	45	2	6	M5
Thrust Washer 035.2/070 X 05	35.2	70	5	50	2	6	M5
Thrust Washer 040.2/080 X 07	40.2	80	7	60	2	7	M6
Thrust Washer 045.2/090 X 07	45.2	90	7	70	2	7	M6
Thrust Washer 050.3/100 X 08	50.3	100	8	75	4	7	M6
Thrust Washer 055.3/110 X 08	55.3	110	8	85	4	7	M6
Thrust Washer 060.3/120 X 08	60.3	120	8	90	4	9	M8
Thrust Washer 065.3/125 X 08	65.3	125	8	95	4	9	M8
Thrust Washer 070.3/130 X 10	70.3	130	10	100	4	9	M8
Thrust Washer 075.3/140 X 10	75.3	140	10	110	4	9	M8
Thrust Washer 080.3/150 X 10	80.3	150	10	120	4	9	M8
Thrust Washer 090.5/170 X 10	90.5	170	10	140	4	11	M10
Thrust Washer 100.5/190 X 10	100.5	190	10	160	4	11	M10
Thrust Washer 120.5/200 X 10	120.5	200	10	175	4	11	M10

d = inside diameter | D = outside diameter | B = thickness | W = perforation circle | d2 = locking hole