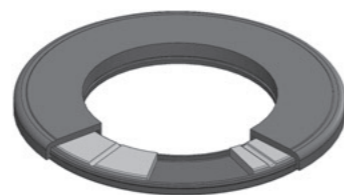


Oiles PS Bearings Plastic sliding bearing units



Feature

- Low coefficient of friction. Maintains smooth operating conditions.
- Features low torque variations when starting and stopping and prevents stick slips.
- Has unit structure that slides inside the bearing. Wear of the bearing and the wear characteristics are not affected by the material or surface conditions of the mating parts.
- Demonstrates superior sliding performance in intermittent and sliding operations.
- The whole bearing unit is made of plastic. Small, lightweight, and superior corrosion resistance.
- The standard products are available in various sizes.

Service range

Standard product

Part No.	Service range			Service temperature range °C
	Allowable max. load W N {kgf}	Allowable max. revolution N s ⁻¹ {rpm}	Allowable max. WN value N · s ⁻¹ {kgf · rpm}	
PST-163605	11,700 {1,194}	4.00 {240}	1,470 { 9,000}	-40~+80
PST-204205	16,600 {1,694}	3.50 {210}	1,630 { 9,980}	
PST-254705	19,600 {2,000}	3.00 {180}	1,790 {10,959}	
PST-305205	22,500 {2,296}	2.50 {150}	1,790 {10,959}	
PST-406805	41,100 {4,194}	2.00 {120}	2,450 {15,000}	
PST-507805	49,000 {5,000}	1.50 { 90}	2,450 {15,000}	

(Notes) ※The WN values are the products of the loads and revolutions in operation.

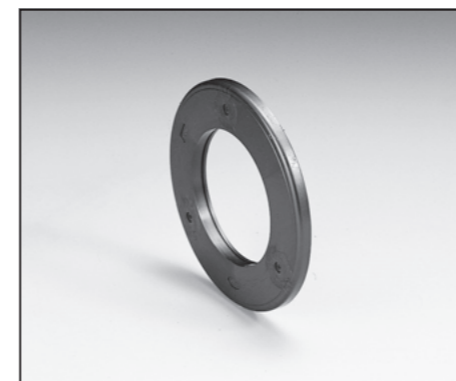
※In oscillating motion, the revolution N found using the conversion expression below must be not more than the allowable maximum revolution.

※Contact us for loads in the radial direction.

$$\text{Revolution } N = (\theta \div 180) \times n$$

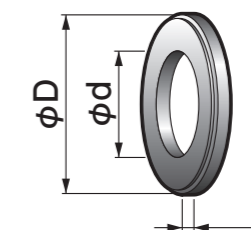
N: revolution s⁻¹ {rpm}
 θ: oscillation angle °
 n: oscillation cycle speed s⁻¹ {cpm}

PST Oiles PS Bearings



Specify Part No. by required I.D., O.D., and thickness.
(e.g.) I.D. is 25mm, O.D. is 47mm, and thickness is 5mm.

PST - 254705
Part No.



Part No.	I.D.		O.D.	Thickness	
	φd	Tolerance	φD	T	Tolerance
PST-163605	16	+0.18 0	36	5	±0.5
PST-204205	20	+0.21 0	42	5	±0.5
PST-254705	25	+0.21 0	47	5	±0.5
PST-305205	30	+0.21 0	52	5	±0.5
PST-406805	40	+0.25 0	68	5	±0.5
PST-507805	50	+0.25 0	78	5	±0.5

▲ The dimensional tolerances are the values measured at +25°C.

Test data

Thrust oscillation test (Loading test)

<Testing conditions>

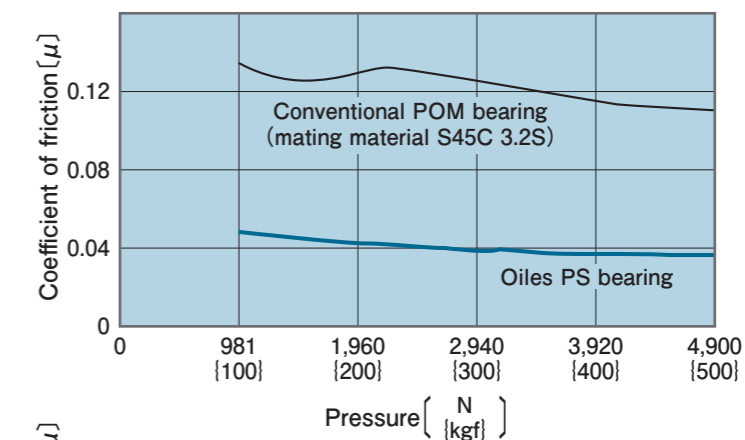
Test sample : PST-204205

Rotational frequency : 1s⁻¹

Oscillating cycle : 60cpm

Oscillating angle : ±40°

Ambient temperature : 23°C



Thrust oscillation test (Temperature dependence)

<Testing conditions>

Test sample : PST-204205

Rotational frequency : 1s⁻¹

Oscillating cycle : 60cpm

Thrust load : 2,450N {250kgf}

Oscillating angle : ±40°

