



**18282—88**

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**Plain bearings. Terms and definitions**

**18282—88**

**0023**

**01.01,89**

23.002—78.

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1. Plain bearing

2.

Steadily loaded bearing

3.

Dynamically loaded plain  
bearing

4.

Plain journal bearing Journal  
bearing

5

Plain thrust bearing Thrust  
bearing

6.

Thrust journal bearing

7.

Hydrodynamic gas bearing

8.

Hydrostatic gas bearing

9.

Hydrodynamic bearing

10.

Squeeze oil film bearing

11.

**Hydrostatic bearing**

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-12.

**Hybrid bearing**

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13.

**Solid-film bearing**

14.

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**Unlubricated bearing**

15.

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**Self-lubricated bearing**

16.

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**Porous bearing**

17.

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**Porous self-lubricating bearing**

18.

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**Circular cylindrical bearing**

19.

( . 1)

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**Non-circular cylindrical bearing**

20.

( . 2)

, -

**Lobed bearing**

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21.

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( . 3)

**Pad journal bearing**

22.

( . 4)

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**Pad thrust bearing**

23.

( . 5)

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**Tilting bearing**

24.

**Tilting-pad journal bearing**

( . 6) ( )

25.

**Tilting-pad thrust bearing**

( . 7)

26.

**Floating bush bearing**

27.

**Multilayer bearing**

28.

**Monometallic bearing**

29.

**Pedestal plain bearing**

30.

**Pedestal plain bearing**

31.

**Flanged plain bearing**

32.

**Plain half bearing**  
**Half bearing**

180°

33.

**Thin walled half bearing**

34.

**Thick walled half bearing**

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35.

**Bearing back**

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36.

**Plain bearing bush**  
**Bearing bush**  
**Bush**

( )

37.

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**Wrapped bearing bush**

38.

, ( )

**Solid half bearing**

39.

, ( )

**Multilayer bearing liner**  
**Multilayer liner**

40.

, ( )

**Flanged half bearing**

41.

, ( .8)

**Bearing backing**  
**Backing**

( )

42.

( )

( )

**Bearing anti-friction layer**  
**Anti-friction layer**  
**Lining**

( .9)

43.

**Bearing running-in layer**  
**Running-in layer**

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( , 9)

44.		,	
		( . 10)	
	Thrust washer		
45.		,	
	Thrust half-washer	( . 10)	
46.		,	
	( . 6)	,	
	Pad		
47.		,	
	Journal pad	( . 6)	
48.		,	
	Thrust pad	( . 5)	,
49.		,	
	( . 12)		
	Journal		
50.		,	
	,		
	Thrust collar pivot		
51.		,	
	Oil ring	,	
52.		,	
	Plain bearing housing		
53.		,	
	Plain bearing gasket		
	Bearing gasket		
54.		,	
	Plain bearing housing cover		
	plate		
	Cover plate		
55.		,	
	Bearing flange		
56.		,	
	Earing bare	,	
57.		,	

**Bearing insulation****58.****Oil ring slot****59.****Oil feed opening****Oil discharge opening****Plain bearing housing bore****62.****Oil hole****63.****Oil outer groove****64.****Oil groove****65.****Longitudinal groove****66.****Circumferential groove****67.****Helical groove****68.****Open groove****69.****Stopped off groove****70.****Gutterway****71.****Oil pocket**

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72.

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( . 20)**Locating fixture**

73-

- |  
( . 21)**Plain journal bearing inside  
diameter**

74. ( )

**Half bearing width**

75.

**Diametral plain journal be-  
ring clearance**  
**Journal bearing clearance**  
**Clearance**

76.

( . 1)

**Radial clearance of a circular  
cylindrical bearing**

77.

( . 2)

**Radial clearance of a multi-  
shaped bearing**

78.

**Relative clearance of a be-  
ring**

79.

( . 21)

**Half-bearing wall thickness**

80.

( . 22)

**Bearing material layer thick-  
ness**

81.

( . 5)

**Pad length**

82.

**Pad width**

( . 23)

( . 4)

83.

**Pad thickness**

( . 23)

( . 4)

84.

**Bore relief**

( . 24)

85.

**Nip****Crush**

( .

25)

86.

TM<sub>»</sub>

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**Inclination**

( . 26)

87.

**Free spread**

( . 27)

88.

**Housing width**

89.

**Housing length**

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90.

**Housing height**

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91.

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**Housing face**

92.

**Cooling fins**

,

93.

**Joint face**

94.

**Centre height of a pedestal  
plain bearing**

. I

95.		. 28
	Journal diameter	
96.		. 28
	Shaft diameter	
97.		. 28
	Collar diameter	
	Thrust collar diameter	
98.		. 28
	Shoulder of the shaft	
99.		. 28
	Distance between shoulders	
100.	-	,
	Anti-friction material	,
	Bearing material	,
101.	-	,
	A'hdiiayer bearing material	
102.	-	,
	Backing material	,
103.	-	,
	Compound material	,
104.	-	,
	Sintered bearing material	
	Sintered material	
105.	-	,
	Adhesion ability	
106.	-	,
	Friction compatibility	
107.	-	,
	Conformability	

**108.**

**Running-in ability**

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-  
-

**109.**

**Embeddability**

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-  
-

**110.**

**Wear resistance**

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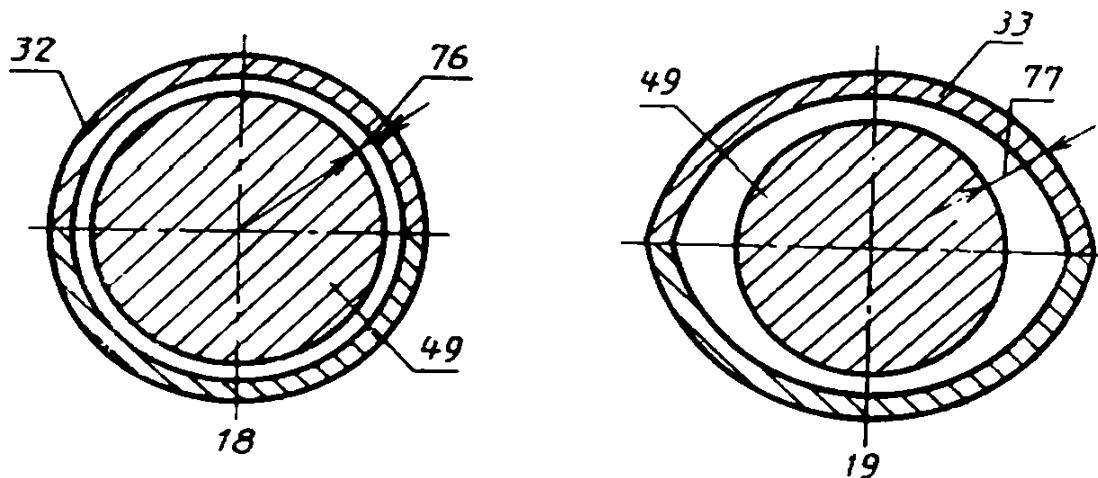
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**111.**

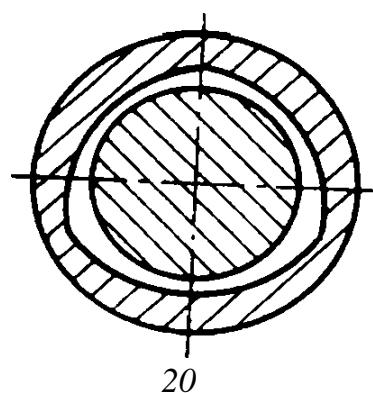
**Relative wear resistance**

**112.**

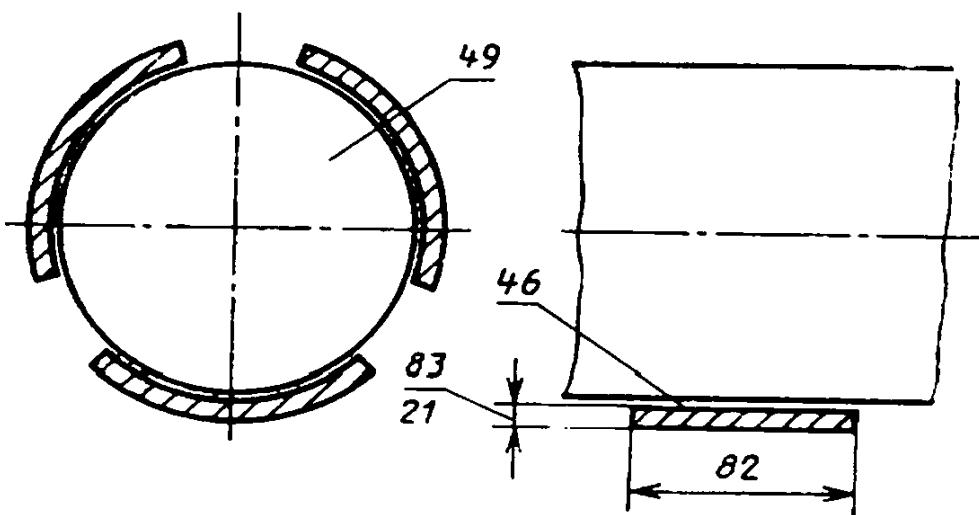
**Temperature stability**

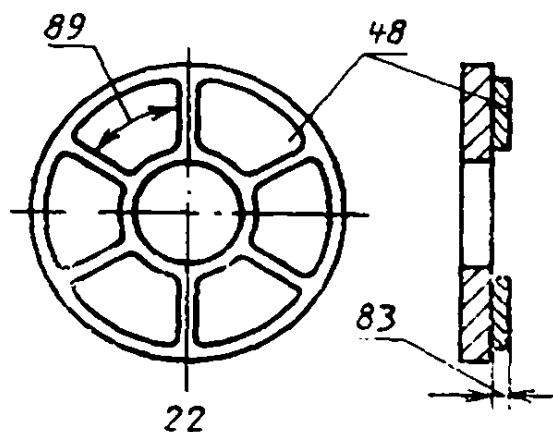


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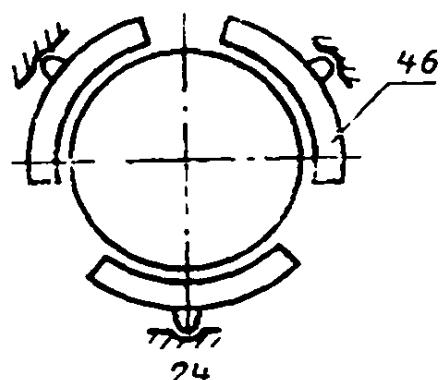


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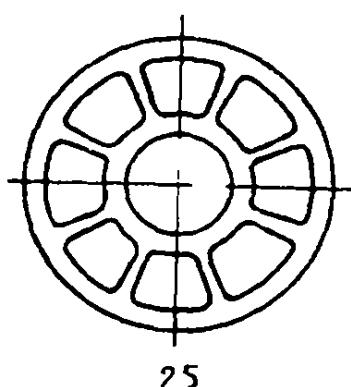




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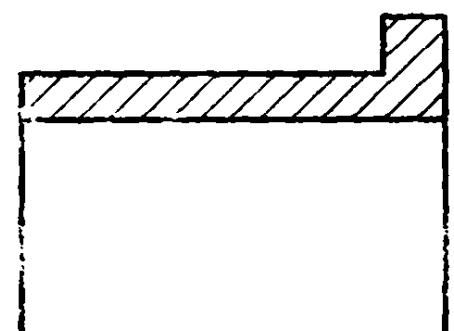


Черт. 6



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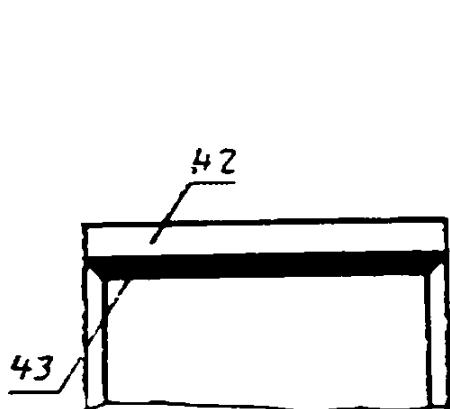
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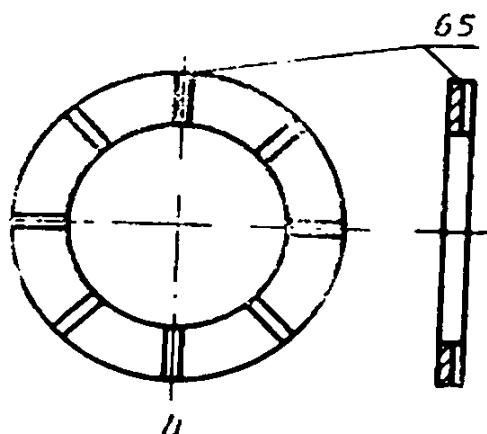
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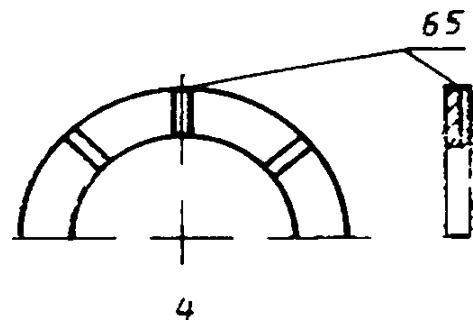
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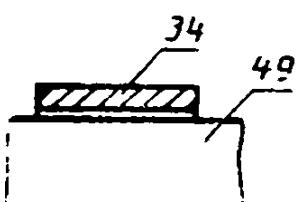
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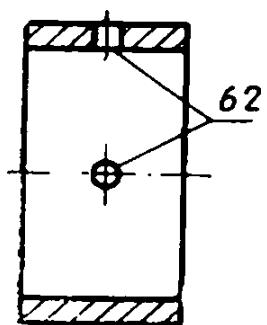
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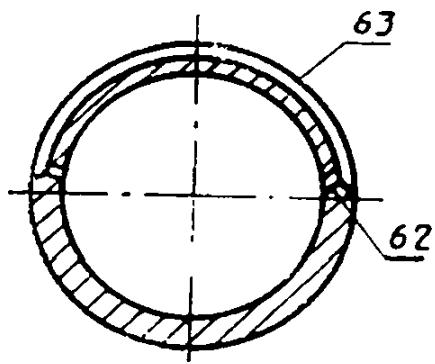
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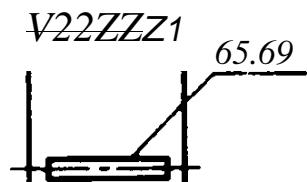
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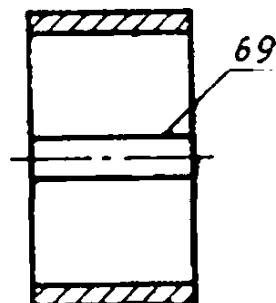
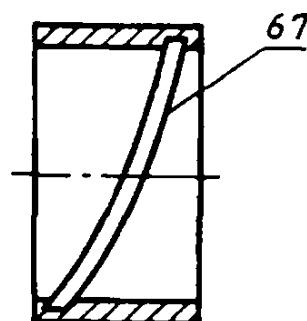
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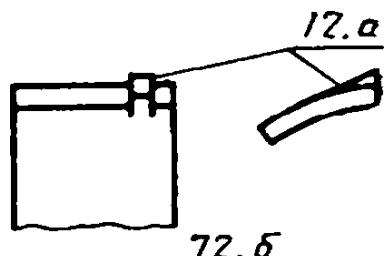
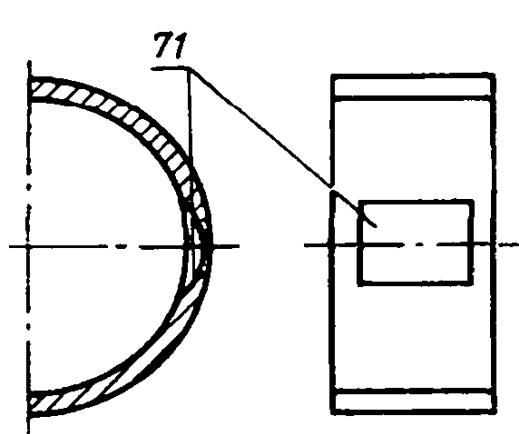
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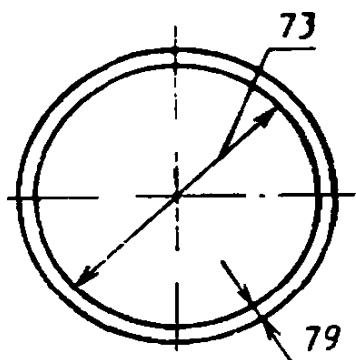
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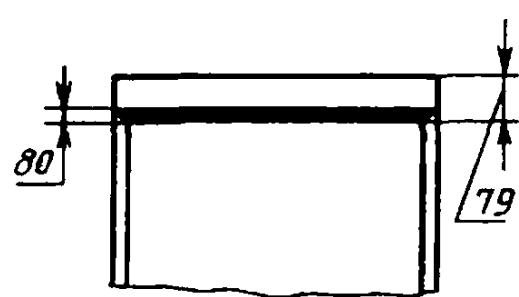
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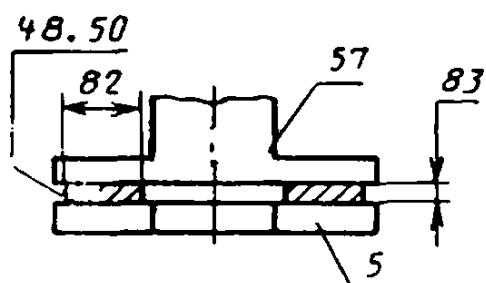
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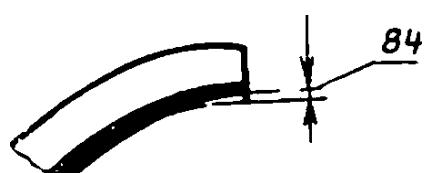
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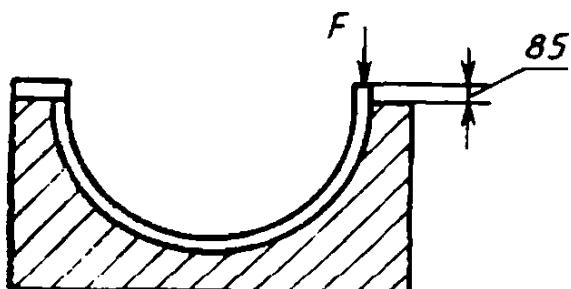
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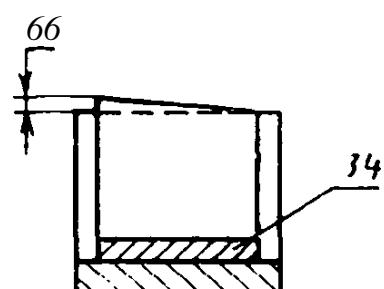
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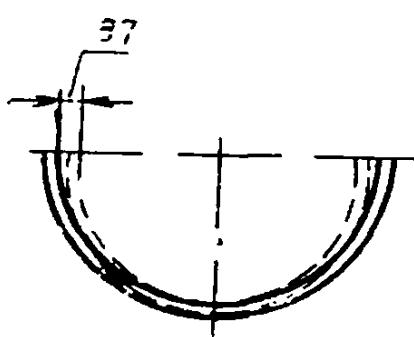
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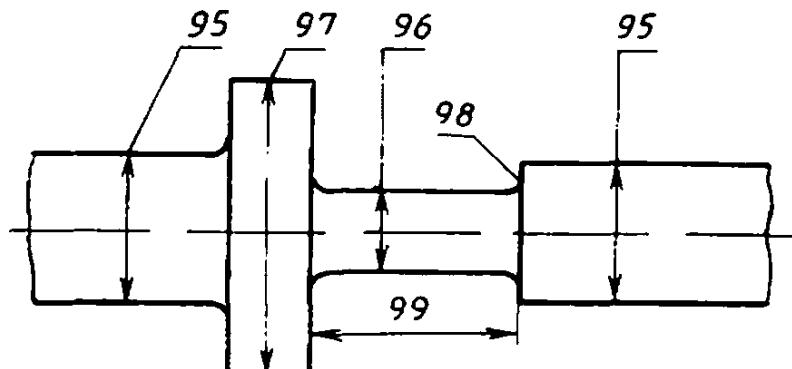
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**42**

**43**

**42**

**106**

**109**

**105**

**105**

**112**

**83**

**80**

**79**

**63**

**65**

**72**

**49**

**49**

**74**

**74**

**89**

**82**

**57**

**72**

Adhesion ability	105
Anti-friction layer	42
Anti-friction material	100
Backing	41
Backing material	102
Bearing anti-friction layer	42
Bearing back	«35
Bearing backing	41
Bearing base	56
Bearing bush	36
Bearing flange	55
Bearing gasket	53
Bearing insulation	57
Bearing material	100
Bearing material layer thickness	80
Bearing running-in layer	43
Bore relief	84
Bush	36
Centre height of a pedestal plain bearing	94
Circular cylindrical bearing	18
Circumferential groove	66
Clearance	75
Collar diameter	97
Compound material	103
Conformability	107
Cooling fins	92
Cover plate	54
Crush	85
Diametral plain journal bearing clearance	75
Distance between shoulders	99
Dynamically loaded plain bearing	3
Embeddability	109
Flanged half bearing	40
Flanged plain bearing	31
Floating bush bearing	26
Free spread	87
Friction compatibility	106
Gutterway	70
Half bearing	32
Half bearing wall thickness	79
Half bearing width	74
Helical groove	67
Housing face	91
Housing height	90
Housing length	89
Housing width	88
Hybrid bearing	12
Hydrodynamic bearing	9
Hydrodynamic gas bearing	7

<b>Hydrostatic bearing</b>	<b>11</b>
<b>Hydrostatic gas bearing</b>	<b>3</b>
<b>Inclination</b>	<b>86</b>
<b>Joint face</b>	<b>93</b>
<b>Journal</b>	<b>49</b>
<b>Journal bearing</b>	<b>4</b>
<b>Journal bearing clearance</b>	<b>75</b>
<b>Journal diameter</b>	<b>95</b>
<b>Journal pad</b>	<b>47</b>
<b>Lining</b>	<b>42</b>
<b>Lobed bearing</b>	<b>20</b>
<b>Locating fixture</b>	<b>72</b>
<b>Longitudinal groove</b>	<b>65</b>
<b>Monometallic bearing</b>	<b>88</b>
<b>Multilayer bearing</b>	<b>27</b>
<b>Multilayer bearing liner</b>	<b>39</b>
<b>Multilayer bearing material</b>	<b>101</b>
<b>Multilayer liner</b>	<b>39</b>
<b>Nip</b>	<b>85</b>
<b>Non-circular cylindrical bearing</b>	<b>19</b>
<b>Oil discharge opening</b>	<b>60</b>
<b>Oil feed opening</b>	<b>59</b>
<b>Oil groove</b>	<b>64</b>
<b>Oil hole</b>	<b>62</b>
<b>Oil outer groove</b>	<b>63</b>
<b>Oil pocket</b>	<b>71</b>
<b>Oil ring</b>	<b>51</b>
<b>Oil ring slot</b>	<b>58</b>
<b>Open groove</b>	<b>68</b>
<b>Pad</b>	<b>46</b>
<b>Pad journal bearing</b>	<b>21</b>
<b>Pad length</b>	<b>81</b>
<b>Pad thickness</b>	<b>83</b>
<b>Pad thrust bearing</b>	<b>22</b>
<b>Pad width</b>	<b>82</b>
<b>Pedestal plain bearing</b>	<b>29. 30</b>
<b>Plain bearing</b>	<b>1</b>
<b>Plain bearing bush</b>	<b>36</b>
<b>Plain bearing gasket</b>	
<b>Plain bearing housing</b>	<b>52</b>
<b>Plain bearing housing bore</b>	<b>61</b>
<b>Plain bearing housing cover plate</b>	<b>54</b>
<b>Plain half bearing</b>	<b>36</b>
<b>Plain journal bearing</b>	<b>4</b>
<b>Plain journal bearing inside diameter</b>	<b>73</b>
<b>Plain thrust bearing</b>	<b>5</b>
<b>Porous bearing</b>	<b>16</b>
<b>Porous self-lubricating bearing</b>	<b>17</b>
<b>Radial clearance of a circular cylindrical bearing</b>	<b>76</b>
<b>Radial clearance of a multishaped bearing</b>	<b>77</b>
<b>Relative clearance of a bearing</b>	<b>78</b>
<b>Relative wear resistance</b>	<b>111</b>

Running-in ability	108
Running-in layer	43
Self-lubricated bearing	15
Shaft diameter	96
Shoulder of the shaft	98
Sintered bearing material	104
Sintered material	104
Solid-film bearing	13
Solid half bearing	38
Squeeze oil bearing	10
Steadily loaded bearing	2
Stopped off groove	69
Temperature stability	112
Thick walled half bearing	34
Thin walled half bearing	33
Thrust bearing	5
Thrust collar diameter	97
Thrust collar pivot	50
Thrust half-washer	45
Thrust journal bearing	6
Thrust pad	48
Thrust washer	44
Tilting bearing	23
Tilting-pad journal bearing	24
Tilting-pad thrust bearing	25
Unlubricated bearing	14
Wear resistance	
Wrapped bearing bush	37

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