



## DUST SEAL

## DS033

### Features:

Wiper seal DS033 is a single acting rod wiper with metal casing for open housing.

### Composition:

SEAL COMBINATION	SEAL RING COMPOUND	METAL CASING	TEMP. RANGE	SURFACE SPEED (Max.)
DS033-01	PU38/PU18/PU01	MILD STEEL	-40 to 100°C	0.5 m/s
DS033-02	VT04	MILD STEEL	-25 to 200°C	0.5 m/s
DS033-03	NB01	MILD STEEL	-35 to 100°C	0.5 m/s

For compound detail please refer Royal seal compounds (section - III)

### Properties:

- Easy push fit installation
- Very good wiping action
- Wiper can be used for a broad temperature range
- No pressure build-up between seal and wiper

### Application:

- Presses, fork lift & material handling equipments
- Injection molding machines
- Standard cylinders

### Surface finish:

Roughness depth	R(max)	Ra
Sliding surface	≤ 2.5 μm	0.05-0.3 μm
Bottom of groove	≤ 6.3 μm	≤ 1.6 μm
Side of groove	≤ 15 μm	≤ 3μm

### Fitting:

Wiper seal DS033 are pressed in to open housings. Careful fitting is prerequisite for perfect functioning of the wiper seal.

### Ordering format:

Please mention ROYAL order code in your order.

Example: Size: 150.00 X 60.00 X 07.0/10.0

Material P.U. Order code is **DS033-M-01-050.00 X 060.00 X 07.0/10.0**

Material FPM, Order code is **DS033-M-02-050.00 X 060.00 X 07.0/10.0**

Material NBR, Order code is **DS033-M-03-050.00 X 060.00 X 07.0/10.0**

Please contact ROYAL at [info@royalcomposites.co.in](mailto:info@royalcomposites.co.in) / [info@royalseals.co.in](mailto:info@royalseals.co.in) if your required size is not mentioned in Royal standard size list

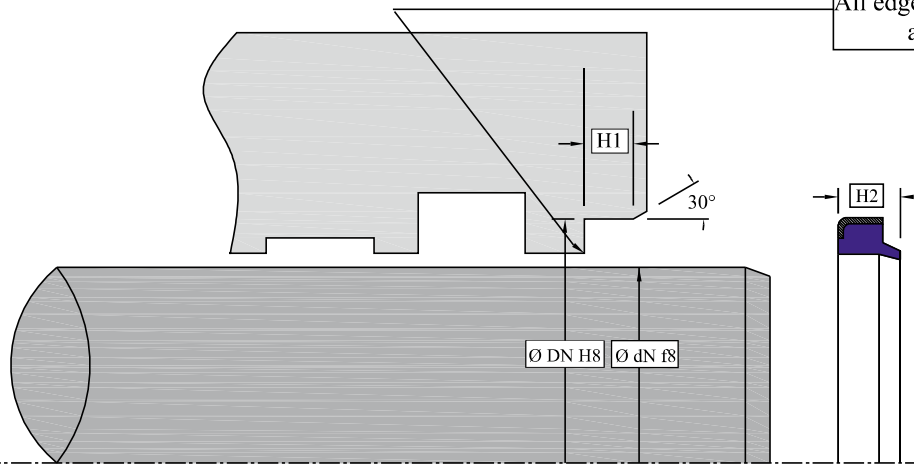


**ROYAL**

SEALS FOR HYDRAULICS & PNEUMATICS

**HOUSING DESIGN DS033**

All edges should be smooth and burr free.



**ROYAL STANDARD SIZE LIST**

ØdN (f8)	ØDN (H11)	H1 (+0.20)	H2	ORDER CODE
16.00	26.00	5.00	8.00	DS033-M-01-016.00 X 026.00 X 05.0/08.0
20.00	28.00	5.00	8.00	DS033-M-01-020.00 X 028.00 X 05.0/08.0
20.00	30.00	5.00	8.00	DS033-M-01-020.00 X 030.00 X 05.0/08.0
20.00	30.00	7.00	10.00	DS033-M-01-020.00 X 030.00 X 07.0/10.0
22.00	32.00	7.00	10.00	DS033-M-01-022.00 X 032.00 X 07.0/10.0
25.00	35.00	5.00	8.00	DS033-M-01-025.00 X 035.00 X 05.0/08.0
25.00	35.00	7.00	10.00	DS033-M-01-025.00 X 035.00 X 07.0/10.0
25.00	37.00	7.00	10.00	DS033-M-01-025.00 X 037.00 X 07.0/10.0
28.00	38.00	5.00	7.00	DS033-M-01-028.00 X 038.00 X 05.0/07.0
30.00	40.00	5.00	7.00	DS033-M-01-030.00 X 040.00 X 05.0/07.0
30.00	40.00	7.00	10.00	DS033-M-01-030.00 X 040.00 X 07.0/10.0
32.00	42.00	5.00	7.00	DS033-M-01-032.00 X 042.00 X 05.0/07.0
32.00	45.00	7.00	10.00	DS033-M-01-032.00 X 045.00 X 07.0/10.0
32.00	52.00	8.00	12.00	DS033-M-01-032.00 X 052.00 X 08.0/12.0
35.00	45.00	7.00	10.00	DS033-M-01-035.00 X 045.00 X 07.0/10.0
36.00	45.00	7.00	10.00	DS033-M-01-036.00 X 045.00 X 07.0/10.0
36.00	46.00	7.00	10.00	DS033-M-01-036.00 X 046.00 X 07.0/10.0
36.00	48.00	5.00	8.00	DS033-M-01-036.00 X 048.00 X 05.0/08.0
40.00	50.00	7.00	10.00	DS033-M-01-040.00 X 050.00 X 07.0/10.0
45.00	55.00	7.00	10.00	DS033-M-01-045.00 X 055.00 X 07.0/10.0
45.00	58.00	7.00	10.00	DS033-M-01-045.00 X 058.00 X 07.0/10.0
48.00	60.00	7.00	10.00	DS033-M-01-048.00 X 060.00 X 07.0/10.0
50.00	60.00	7.00	10.00	DS033-M-01-050.00 X 060.00 X 07.0/10.0
55.00	65.00	7.00	10.00	DS033-M-01-055.00 X 065.00 X 07.0/10.0
55.00	70.00	7.00	10.00	DS033-M-01-055.00 X 070.00 X 07.0/10.0
56.00	66.00	7.00	10.00	DS033-M-01-056.00 X 066.00 X 07.0/10.0
60.00	70.00	7.00	10.00	DS033-M-01-060.00 X 070.00 X 07.0/10.0
60.00	72.00	5.00	8.00	DS033-M-01-060.00 X 072.00 X 05.0/08.0
60.00	74.00	5.00	8.00	DS033-M-01-060.00 X 074.00 X 05.0/08.0
63.00	73.00	7.00	10.00	DS033-M-01-063.00 X 073.00 X 07.0/10.0
63.00	75.00	7.00	10.00	DS033-M-01-063.00 X 075.00 X 07.0/10.0

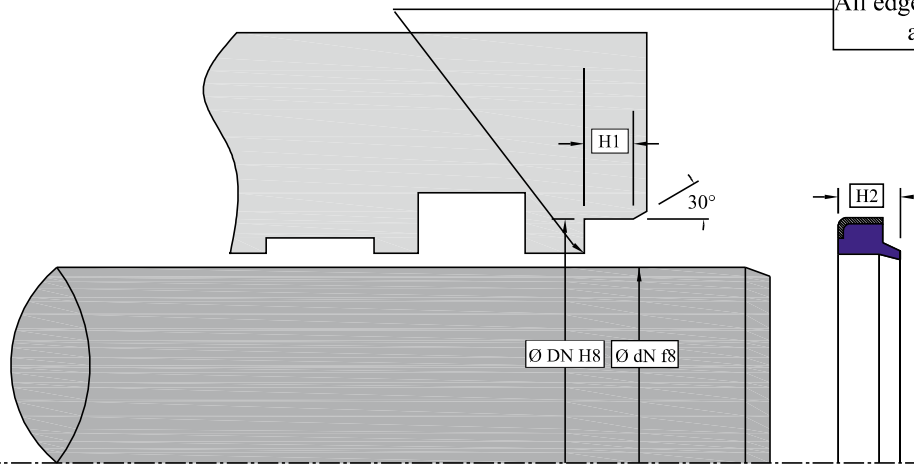


**ROYAL**

SEALS FOR HYDRAULICS & PNEUMATICS

**HOUSING DESIGN DS033**

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**ROYAL STANDARD SIZE LIST**

ØdN (f8)	ØDN (H11)	H1 (+0.20)	H2	ORDER CODE
70.00	80.00	7.00	10.00	DS033-M-01-070.00 X 080.00 X 07.0/10.0
72.00	84.00	5.00	8.00	DS033-M-01-072.00 X 084.00 X 05.0/08.0
75.00	83.00	7.00	10.00	DS033-M-01-075.00 X 083.00 X 07.0/10.0
75.00	85.00	7.00	10.00	DS033-M-01-075.00 X 085.00 X 07.0/10.0
80.00	90.00	7.00	10.00	DS033-M-01-080.00 X 090.00 X 07.0/10.0
85.00	95.00	7.00	10.00	DS033-M-01-085.00 X 095.00 X 07.0/10.0
90.00	100.00	7.00	10.00	DS033-M-01-090.00 X 100.00 X 07.0/10.0
90.00	102.00	7.00	10.00	DS033-M-01-090.00 X 102.00 X 07.0/10.0
93.00	105.00	5.00	8.00	DS033-M-01-093.00 X 105.00 X 05.0/08.0
95.00	105.00	7.00	10.00	DS033-M-01-095.00 X 105.00 X 07.0/10.0
100.00	110.00	7.00	10.00	DS033-M-01-100.00 X 110.00 X 07.0/10.0
105.00	115.00	7.00	10.00	DS033-M-01-105.00 X 115.00 X 07.0/10.0
105.00	117.00	5.00	8.00	DS033-M-01-105.00 X 117.00 X 05.0/08.0
105.00	121.00	8.00	11.00	DS033-M-01-105.00 X 121.00 X 08.0/11.0
110.00	120.00	7.00	10.00	DS033-M-01-110.00 X 120.00 X 07.0/10.0
120.00	130.00	7.00	10.00	DS033-M-01-120.00 X 130.00 X 07.0/10.0
125.00	140.00	9.00	12.00	DS033-M-01-125.00 X 140.00 X 09.0/12.0
130.00	145.00	9.00	12.00	DS033-M-01-130.00 X 145.00 X 09.0/12.0
140.00	155.00	9.00	12.00	DS033-M-01-140.00 X 155.00 X 09.0/12.0
150.00	165.00	9.00	12.00	DS033-M-01-150.00 X 165.00 X 09.0/12.0
160.00	175.00	9.00	12.00	DS033-M-01-160.00 X 175.00 X 09.0/12.0
170.00	185.00	10.00	14.00	DS033-M-01-170.00 X 185.00 X 10.0/14.0
180.00	195.00	10.00	14.00	DS033-M-01-180.00 X 195.00 X 10.0/14.0
190.00	202.00	9.00	12.00	DS033-M-01-190.00 X 202.00 X 09.0/12.0
200.00	220.00	12.00	16.00	DS033-M-01-200.00 X 220.00 X 12.0/16.0
200.00	225.00	12.00	18.00	DS033-M-01-200.00 X 225.00 X 12.0/18.0
240.00	260.00	12.00	16.00	DS033-M-01-240.00 X 260.00 X 12.0/16.0