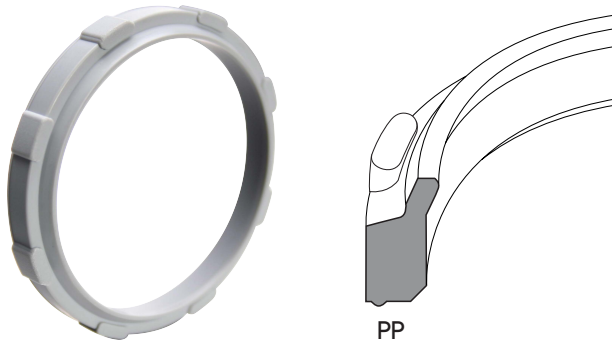


## Cushion Seals

PP

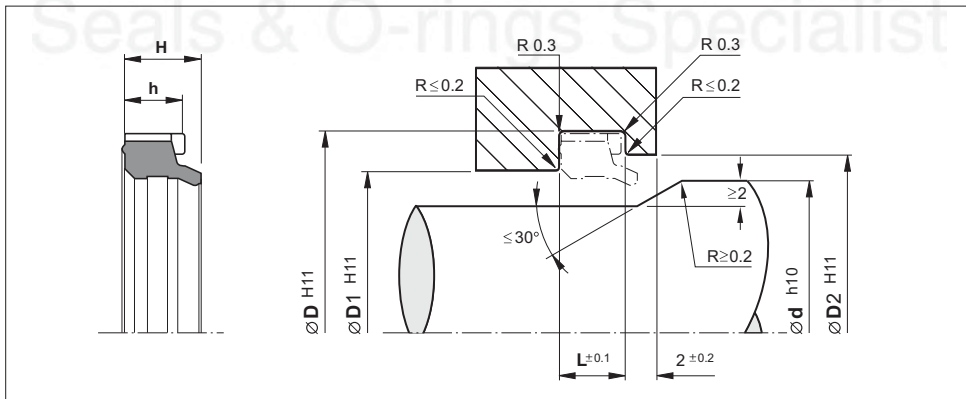
(Metric Size)



| Material | Pressure (Bar) | Temp. (°C) | Speed (m/s) |
|----------|----------------|------------|-------------|
| PU       | 16             | -35<br>+80 | 1           |
| NBR      | 16             | -20<br>+80 | 1           |

- As the seal functions as a check valve, no separate valve is necessary.
- High cushioning consistency due to automatic centering.
- Increased reliability due to two independent sealing systems.
- Easy manual snap assembly.

### Installation Recommendation



### Surface roughness

Ra

Rt

Sliding surface

≤ 0.3 µm

≤ 4 µm

Surface of housing

≤ 1.8 µm

≤ 10 µm

Sides of housing

≤ 3.0 µm

≤ 16 µm

## Cushion Seals - PP

(Metric Size)

| Cushion Dia. | Groove Dimensions |      |      |      | Seal Step Height | Seal Height | Reference (For order processing) | Reference (For order processing) |
|--------------|-------------------|------|------|------|------------------|-------------|----------------------------------|----------------------------------|
| d            | D                 | D1   | D2   | L    | h                | H           |                                  |                                  |
| 4.5          | 8.0               | 5.0  | 6.5  | 3.1  | 2.6              | 3.5         | PP0408 N                         |                                  |
| 5.0          | 9.0               | 5.5  | 7.0  | 3.7  | 3.2              | 4.1         | PP0509 N                         |                                  |
| 6.0          | 10.0              | 6.5  | 8.0  | 3.7  | 3.2              | 4.1         | PP0610 N                         |                                  |
| 7.8          | 11.6              | 8.5  | 10.0 | 3.3  | 2.8              | 3.5         |                                  | PP0711 P                         |
| 8.0          | 11.6              | 8.5  | 10.0 | 3.3  | 2.8              | 3.5         | PP0811 N                         | PP0811 P                         |
| 9.5          | 15.0              | 10.0 | 12.0 | 4.5  | 3.7              | 4.6         | PP0915 N                         | PP0915 P                         |
| 10.0         | 18.0              | 10.5 | 13.0 | 7.0  | 6.3              | 7.8         | PP1018 N                         |                                  |
| 10.0         | 18.0              | 10.5 | 15.0 | 7.0  | 6.3              | 7.8         |                                  | PP1018 P                         |
| 12.0         | 18.0              | 13.0 | 15.5 | 4.8  | 4.1              | 5.0         | PP1218 N                         | PP1218 P                         |
| 12.0         | 20.0              | 13.0 | 17.0 | 7.0  | 6.3              | 7.8         | PP1220 N                         |                                  |
| 14.0         | 22.0              | 15.0 | 19.0 | 7.0  | 6.3              | 7.8         | PP1422 N                         | PP1422 P                         |
| 16.0         | 22.0              | 17.0 | 19.5 | 5.2  | 4.5              | 5.5         | PP1622 N                         | PP1622 P                         |
| 16.0         | 24.0              | 17.0 | 21.0 | 7.0  | 6.3              | 7.8         | PP1624 N                         | PP1624 P                         |
| 18.0         | 26.0              | 19.0 | 23.0 | 7.0  | 6.3              | 7.8         | PP1826 N                         | PP1826 P                         |
| 20.0         | 28.0              | 21.0 | 24.0 | 7.0  | 6.3              | 7.8         | PP2028 N                         | PP2028 P                         |
| 22.0         | 30.0              | 23.0 | 26.0 | 7.0  | 6.3              | 7.8         | PP2230 N                         | PP2230 P                         |
| 25.0         | 33.0              | 26.0 | 29.0 | 7.0  | 6.3              | 7.8         | PP2533 N                         | PP2533 P                         |
| 28.0         | 36.0              | 29.0 | 32.0 | 7.0  | 6.3              | 7.8         | PP2836 N                         | PP2836 P                         |
| 30.0         | 40.0              | 31.5 | 35.0 | 7.0  | 6.2              | 7.8         | PP3040 N                         |                                  |
| 30.0         | 40.0              | 31.5 | 35.0 | 7.0  | 6.3              | 7.8         |                                  | PP3040 P                         |
| 32.0         | 42.0              | 33.5 | 37.0 | 7.0  | 6.2              | 7.8         | PP3242 N                         | PP3242 P                         |
| 36.0         | 46.0              | 37.5 | 41.0 | 7.0  | 6.2              | 7.8         | PP3646 N                         | PP3646 P                         |
| 40.0         | 50.0              | 41.5 | 45.0 | 7.0  | 6.2              | 7.8         | PP4050 N                         | PP4050 P                         |
| 50.0         | 60.0              | 51.5 | 55.0 | 7.0  | 6.2              | 7.8         | PP5060 N                         | PP5060 P                         |
| 50.0         | 67.0              | 53.0 | 58.0 | 12.5 | 11.0             | 11.0        | PP5067 N                         |                                  |
| 57.0         | 74.0              | 60.0 | 65.0 | 12.5 | 11.0             | 11.0        | PP5774 N                         | PP5774 P                         |
| 70.0         | 87.0              | 73.0 | 78.0 | 12.5 | 11.0             | 11.0        | PP7087 N                         |                                  |
| 78.0         | 95.0              | 81.0 | 86.0 | 12.5 | 11.0             | 11.0        | PP7895 N                         | PP7895 P                         |