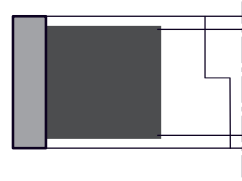


### PISTON SEAL

### PS088



### Features:

Piston seal profile PS088 consists of two piece seal set for sealing pistons with one seal ring and one NBR square/rectangular energizer ring.

### Composition:

PS088 is a combination of split glass filled polyamide seal ring along with NBR square energizer ring.

| SEAL COMBINATION | SEAL RING COMPOUND | SQUARE ENERGIZER | TEMP. RANGE  | WORKING PRESSURE (Max.) | SURFACE SPEED (Max.) |
|------------------|--------------------|------------------|--------------|-------------------------|----------------------|
| PS088-01         | PA09               | NB04             | -20 to 100°C | 500 Bar                 | 1.5 m/s              |
|                  |                    |                  |              |                         |                      |

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

### Properties:

- High abrasion resistance
- Low wear and high extrusion resistance
- Wide fluid application range
- Resistance against cold flow
- Minimum installation space required

### Application:

- Mobile Hydraulics
- Machine tools
- Material Handling Equipments

### 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       |



SEALS FOR HYDRAULICS & PNEUMATICS

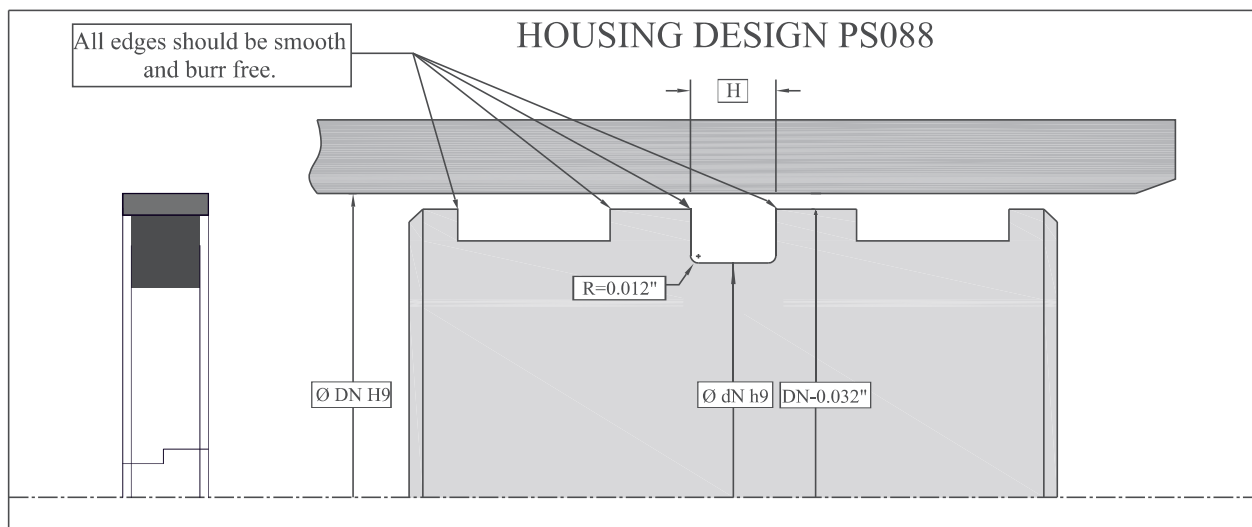
### **Installation :**

PS088 piston seals can be fitted on single-piece pistons. First insert the rubber Square Ring into the housing carefully to avoid twisting of Ring. The split polyamide ring is then carefully placed on the piston above the Square Ring.

### **Ordering format :**

Please Follow ROYAL order code to place your order.

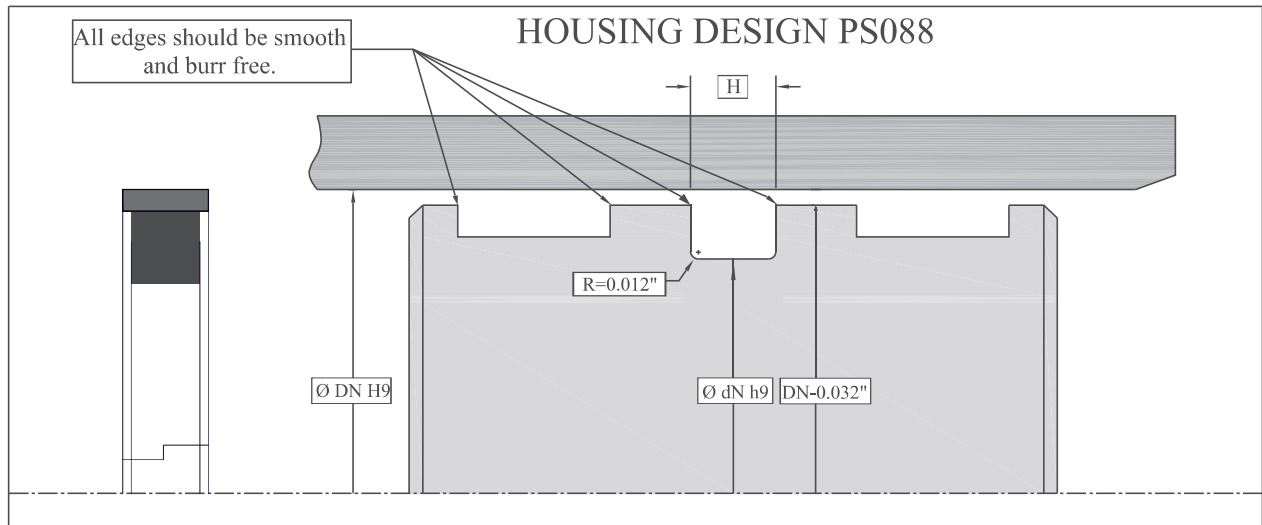
Example - for Imperial Size 2.000"X 1.462"X 0.282" - order code is **PS088-I-01-02.000 X 01.462 X 0.282**



### ROYAL STANDARD SIZE LIST

#### IMPERIAL SIZES

| DN<br>(H9) | dN<br>(h9) | H<br>(+0.008") |  | ORDER CODE                         |
|------------|------------|----------------|--|------------------------------------|
| 2.000      | 1.462      | 0.282          |  | PS088-I-01-02.000 X 01.462 X 0.282 |
| 2.000      | 1.408      | 0.312          |  | PS088-I-01-02.000 X 01.408 X 0.312 |
| 2.250      | 1.712      | 0.282          |  | PS088-I-01-02.250 X 01.712 X 0.282 |
| 2.500      | 1.962      | 0.282          |  | PS088-I-01-02.500 X 01.962 X 0.282 |
| 2.500      | 1.908      | 0.312          |  | PS088-I-01-02.500 X 01.908 X 0.312 |
| 2.750      | 2.212      | 0.282          |  | PS088-I-01-02.750 X 02.212 X 0.282 |
| 3.000      | 2.442      | 0.282          |  | PS088-I-01-03.000 X 02.442 X 0.282 |
| 3.000      | 2.408      | 0.312          |  | PS088-I-01-03.000 X 02.408 X 0.312 |
| 3.250      | 2.692      | 0.281          |  | PS088-I-01-03.250 X 02.692 X 0.281 |
| 3.500      | 2.942      | 0.282          |  | PS088-I-01-03.500 X 02.942 X 0.282 |
| 3.500      | 2.908      | 0.312          |  | PS088-I-01-03.500 X 02.908 X 0.312 |
| 3.525      | 2.942      | 0.281          |  | PS088-I-01-03.525 X 02.942 X 0.281 |
| 3.750      | 3.192      | 0.282          |  | PS088-I-01-03.750 X 03.192 X 0.282 |
| 4.000      | 3.442      | 0.282          |  | PS088-I-01-04.000 X 03.442 X 0.282 |
| 4.000      | 3.408      | 0.312          |  | PS088-I-01-04.000 X 03.408 X 0.312 |
| 4.500      | 3.942      | 0.282          |  | PS088-I-01-04.500 X 03.942 X 0.282 |
| 4.500      | 3.908      | 0.312          |  | PS088-I-01-04.500 X 03.908 X 0.312 |
| 4.750      | 4.192      | 0.282          |  | PS088-I-01-04.750 X 04.192 X 0.282 |
| 5.000      | 4.442      | 0.282          |  | PS088-I-01-05.000 X 04.442 X 0.282 |
| 5.000      | 4.240      | 0.377          |  | PS088-I-01-05.000 X 04.240 X 0.377 |
| 5.250      | 4.490      | 0.377          |  | PS088-I-01-05.250 X 04.490 X 0.377 |
| 5.500      | 4.740      | 0.377          |  | PS088-I-01-05.500 X 04.740 X 0.377 |
| 6.000      | 5.240      | 0.377          |  | PS088-I-01-06.000 X 05.240 X 0.377 |
| 6.500      | 5.740      | 0.377          |  | PS088-I-01-06.500 X 05.740 X 0.377 |
| 7.000      | 6.240      | 0.377          |  | PS088-I-01-07.000 X 06.240 X 0.377 |
| 7.500      | 6.740      | 0.377          |  | PS088-I-01-07.500 X 06.740 X 0.377 |
| 8.000      | 7.240      | 0.377          |  | PS088-I-01-08.000 X 07.240 X 0.377 |
| 8.500      | 7.740      | 0.377          |  | PS088-I-01-08.500 X 07.740 X 0.377 |
| 8.500      | 7.624      | 0.377          |  | PS088-I-01-08.500 X 07.624 X 0.377 |



## ROYAL STANDARD SIZE LIST

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