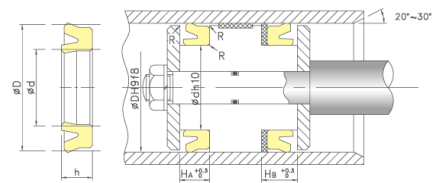


# Piston Seals

## HD-1 Type

Material : TPU / 8L95  
Hardness : 95 Shore A  
Adaptable Temp °C : -20°C ~ 100°C



$R \leq 0.3$   
Piston Ø D Surface Roughness: 0.4~3.2 µ mRmax (0.1~0.8 µ mRa)

| Type | Ø d  | Ø D  | h   | HA  |
|------|------|------|-----|-----|
| HD-1 | 5    | 15   | 8   | 9   |
|      | 6    | 15   | 8   | 9   |
|      | 8    | 14   | 4   | 5   |
|      | 10   | 16   | 4.5 | 5.5 |
|      | 11.2 | 19.2 | 5   | 6   |
|      | 14   | 22   | 5   | 6   |
|      | 17   | 25   | 4   | 5   |
|      | 17   | 25   | 10  | 11  |
|      | 19   | 34   | 8   | 9   |
|      | 20   | 30   | 5   | 6   |
|      | 23   | 31   | 5   | 6   |
|      | 25   | 32   | 5.8 | 6.5 |
|      | 25   | 40   | 12  | 13  |
|      | 26   | 32   | 5   | 6   |
|      | 27   | 35   | 5   | 6   |
|      | 29   | 37   | 5.5 | 6.5 |
|      | 30   | 40   | 6   | 7   |
|      | 30   | 40   | 6.5 | 7.5 |
|      | 30   | 40   | 8   | 9   |
|      | 30   | 45   | 6   | 7   |
|      | 30   | 45   | 12  | 13  |
|      | 33   | 45   | 9   | 10  |
|      | 35   | 45   | 6   | 7   |
|      | 35   | 45   | 8   | 9   |
|      | 35   | 48   | 10  | 11  |
|      | 35   | 50   | 9   | 10  |
|      | 35   | 50   | 12  | 13  |
|      | 35   | 55   | 12  | 13  |
|      | 36   | 46   | 7   | 8   |

| Type | Ø d  | Ø D  | h    | HA   |
|------|------|------|------|------|
| HD-1 | 37   | 45   | 6    | 7    |
|      | 40   | 50   | 6    | 7    |
|      | 40   | 50   | 6.5  | 7.5  |
|      | 40   | 50   | 8    | 9    |
|      | 40   | 50   | 9    | 10   |
|      | 40.8 | 50.8 | 7    | 8    |
|      | 45   | 55   | 6    | 7    |
|      | 45   | 56   | 7    | 8    |
|      | 45   | 60   | 10   | 11   |
|      | 45   | 65   | 12   | 13   |
|      | 46   | 56   | 6    | 7    |
|      | 48   | 63   | 9    | 10   |
|      | 48   | 63   | 10   | 11   |
|      | 48   | 63   | 11.5 | 12.5 |
|      | 50   | 60   | 5    | 6    |
|      | 50   | 60   | 6    | 7    |
|      | 50   | 60   | 7    | 8    |
|      | 50   | 63   | 14   | 15   |
|      | 50   | 65   | 9    | 10   |
|      | 50   | 70   | 9    | 10   |
|      | 50   | 70   | 12   | 13   |
|      | 53   | 63   | 6    | 7    |
|      | 53   | 63   | 6.5  | 7.5  |
|      | 53   | 65   | 14   | 15   |
|      | 55   | 70   | 9    | 10   |
|      | 55   | 70   | 10   | 11   |
|      | 55   | 70   | 12   | 13   |
|      | 55   | 75   | 12   | 13   |
|      | 58   | 72   | 12   | 13   |

## Piston Seals

| Type | Ø d | Ø D | h    | HA   |
|------|-----|-----|------|------|
| HD-1 | 60  | 70  | 6    | 7    |
|      | 60  | 70  | 8    | 9    |
|      | 60  | 70  | 12   | 13   |
|      | 60  | 75  | 13   | 14   |
|      | 61  | 71  | 6    | 7    |
|      | 64  | 80  | 12   | 13   |
|      | 65  | 75  | 6    | 7    |
|      | 65  | 80  | 10   | 11   |
|      | 70  | 80  | 6    | 7    |
|      | 70  | 80  | 8    | 9    |
|      | 70  | 86  | 12   | 13   |
|      | 71  | 80  | 6.5  | 7.5  |
|      | 73  | 85  | 14   | 15   |
|      | 75  | 88  | 9.5  | 10.5 |
|      | 75  | 90  | 9    | 10   |
|      | 75  | 90  | 10   | 11   |
|      | 75  | 100 | 18   | 19   |
|      | 78  | 90  | 14   | 15   |
|      | 80  | 90  | 6    | 7    |
|      | 80  | 95  | 9    | 10   |
|      | 80  | 100 | 14.5 | 15.5 |
|      | 83  | 95  | 14   | 15   |
|      | 85  | 100 | 9    | 10   |
|      | 85  | 100 | 9.5  | 10.5 |
|      | 89  | 105 | 18   | 19   |
|      | 90  | 105 | 9    | 10   |
|      | 94  | 110 | 18   | 19   |
|      | 95  | 110 | 9    | 10   |
|      | 98  | 110 | 14   | 15   |
|      | 100 | 115 | 9    | 10   |
|      | 100 | 120 | 12   | 13   |
|      | 100 | 120 | 13   | 14   |
|      | 100 | 130 | 12   | 13   |
|      | 104 | 120 | 18   | 19   |
|      | 105 | 120 | 9    | 10   |
|      | 106 | 120 | 8.5  | 9.5  |

| Type | Ø d | Ø D | h    | HA   |
|------|-----|-----|------|------|
| HD-1 | 108 | 120 | 14   | 15   |
|      | 109 | 125 | 18   | 19   |
|      | 110 | 120 | 6    | 7    |
|      | 110 | 125 | 9    | 10   |
|      | 110 | 125 | 10   | 11   |
|      | 110 | 130 | 12   | 13   |
|      | 112 | 125 | 9    | 10   |
|      | 115 | 130 | 9    | 10   |
|      | 118 | 133 | 9    | 10   |
|      | 120 | 130 | 13.5 | 14.5 |
|      | 120 | 140 | 13   | 14   |
|      | 124 | 140 | 18   | 19   |
|      | 125 | 140 | 9    | 10   |
|      | 128 | 140 | 14   | 15   |
|      | 130 | 150 | 15   | 16   |
|      | 135 | 150 | 9    | 10   |
|      | 135 | 160 | 19   | 20   |
|      | 140 | 150 | 7    | 8    |
|      | 140 | 160 | 13   | 14   |
|      | 145 | 160 | 9    | 10   |
|      | 148 | 160 | 15.5 | 16.5 |
|      | 150 | 160 | 12.5 | 13.5 |
|      | 150 | 170 | 15   | 16   |
|      | 154 | 170 | 18   | 19   |
|      | 155 | 170 | 9    | 10   |
|      | 165 | 180 | 9    | 10   |
|      | 174 | 190 | 18   | 19   |
|      | 175 | 190 | 9    | 10   |
|      | 175 | 200 | 18.2 | 19.2 |
|      | 190 | 210 | 12   | 13   |
|      | 195 | 220 | 16   | 17   |
|      | 200 | 220 | 12   | 13   |
|      | 204 | 220 | 18   | 19   |
|      | 215 | 240 | 16   | 17   |
|      | 220 | 240 | 12   | 13   |
|      | 225 | 250 | 19   | 20   |

Piston Seals

| Type | Ø d | Ø D | h    | HA   |
|------|-----|-----|------|------|
| HD-1 | 230 | 250 | 12   | 13   |
|      | 230 | 250 | 12.5 | 13.5 |
|      | 230 | 255 | 22   | 23   |
|      | 234 | 250 | 18   | 19   |
|      | 270 | 300 | 19   | 20   |
|      | 270 | 300 | 24   | 25   |
|      | 284 | 300 | 18   | 19   |
|      | 290 | 320 | 19   | 20   |
|      | 300 | 330 | 19   | 20   |
|      | 370 | 400 | 22   | 23   |
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|      |     |     |      |      |

| Type | Ø d | Ø D | h | HA |
|------|-----|-----|---|----|
| HD-1 |     |     |   |    |
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## Piston Seals

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