

# FD C4400

## Flat seal

### Properties

|                          |  |
|--------------------------|--|
| <b>Design</b>            | Universal high-pressure seal for a wide range of sectors   |
| <b>Construction type</b> | ultra high-performance standard  |
| <b>Approval</b>          | DIN-DVGW approval, BAM-, HTB approved, KTW recommended, WRC approval   |
| <b>Media</b>             | Oil<br>Water<br>Steam<br>Gases<br>Saline solutions<br>Fuels<br>Alcohols<br>organic and inorganic acids<br>hydrocarbons<br>Lubricants<br>Refrigerants |
| <b>Material</b>          | aramid fibres, bonded with NBR   |
| <b>Application</b>       | food processing<br>drinking water supply<br>Chemical industry  |



### Note

Tolerances:<br>  
longitudinal dimension according to DIN 7715 - Part 5 P2,<br>  
thickness according to DIN 7715 - Part 5 P3,<br>  
surface seals according to DIN 2690 are only standardized to PN 40 bar

### Description

Technical values for 2 mm thickness:<br>  
- compressibility ASTM F36 A = 11%<br>  
- resilience ASTM F36 A = 55 %<br>  
- creep resistance under load DIN 52913 = 25 MPA (50 MPA, 16 h / 300 °C)<br>  
- creep resistance under load BS 7531 = 23 MPA<br>  
- Thinning at 23 °C = 10 %<br>  
- Thinning at 300 °C = 22 %<br>  
- leak tightness according to DIN 3535/6 = 0.2 ml/min<br>  
- anti-corrosion aptitude (chloride content soluble) = 150 ppm<br>  
- Thickness change according to ASTM F 146 (oil JRM 903: 5 h / 23 °C) = 3 %<br>  
- Thickness change according to ASTM F 146 (fuel B: 5 h / 23 °C) = 5 %<br>  
- density = 1.6 g/cm<sup>3</sup>

### Item

| Identification       | D<br>(mm) | d<br>(mm) | S<br>(mm) |
|----------------------|-----------|-----------|-----------|
| FD 15-11-1 C4400     | 15,0      | 11,00     | 1,00      |
| FD 41-33.2-2 C4400   | 41,0      | 33,20     | 3,00      |
| FD 55-41-1.5 C4400   | 55,0      | 41,00     | 1,50      |
| FD 60-20-3 C4400     | 60,0      | 20,00     | 3,00      |
| FD 70-45-3 C4400     | 70,0      | 45,00     | 3,00      |
| FD 82-66-1 C4400     | 82,0      | 66,00     | 3,00      |
| FD 85-70-0.5 C4400   | 85,0      | 70,00     | 0,50      |
| FD 90-40-3 C4400     | 90,0      | 40,00     | 3,00      |
| FD 100-50-3 C4400    | 100,0     | 50,00     | 3,00      |
| FD 105-65-3 C4400    | 105,0     | 65,00     | 3,00      |
| FD 110-75-2 C4400    | 110,0     | 75,00     | 2,00      |
| FD 110-85-3 C4400    | 110,0     | 85,00     | 3,00      |
| FD 140-121-1.5 C44   | 140,0     | 121,00    | 1,50      |
| FD 140-121-1.5 C4400 | 140,0     | 121,00    | 1,50      |
| FD 190-125-3 C4400   | 190,0     | 125,00    | 3,00      |
| FD 220-150-3 C4400   | 220,0     | 150,00    | 3,00      |
| FD 270-200-3 C4400   | 270,0     | 200,00    | 3,00      |
| FD 280-162-2 C4400   | 280,0     | 162,00    | 2,00      |
| FD 310-295-0.5 C44   | 310,0     | 295,00    | 0,50      |
| FD 310-295-0.5 C4400 | 310,0     | 295,00    | 0,50      |
| FD 320-250-3 C4400   | 320,0     | 250,00    | 3,00      |



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|----------------------|-----------|-----------|-----------|
| FD 380-300-3 C4400   | 380,0     | 300,00    | 3,00      |
| FD 380-325-2 C4400   | 380,0     | 325,00    | 3,00      |
| FD 485-400-3 C4400   | 485,0     | 400,00    | 3,00      |
| FD 540-490-3 C4400   | 540,0     | 490,00    | 3,00      |
| FD 570-500-3 C4400   | 570,0     | 500,00    | 3,00      |
| FD 590-500-3 C4400   | 590,0     | 500,00    | 3,00      |
| FD 680-600-3 C4400   | 680,0     | 600,00    | 3,00      |
| FD 800-670-3 C4400   | 800,0     | 670,00    | 3,00      |
| FD 1080-1010-3 C44   | 1080,0    | 1010,00   | 3,00      |
| FD 1080-1010-3 C4400 | 1080,0    | 1010,00   | 3,00      |