

# PR V4 (M)

Presná oceľová rúrka, metrická, 1.4571

**HANSA FLEX**

## Vlastnosti

**Konštrukcia** Presná oceľová rúrka, metrická

**Materiál** Ušľachtilá oceľ 1.4571

**Dĺžka rúrky** 6 metrov



## Poznámka

Uvedené údaje tlaku sa vzťahujú na priamu rúru.

V prípade ohýbanej rúry sa príslušné hrúbky stien počítajú analogicky s DIN EN 13480-4.

## Dodatočné informácie

Výpočet je analogický DIN 2413 (Návrh)

Prípado zaťaženia I : Staticky (do 100 °C)

Prípado zaťaženia III : Dynamicky (do 200 °C), rozkmit = P bar

Parameter pevnosti: K 234 [N/mm<sup>2</sup>]

Koeficient bezpečnosti: S 1,5

Trvalá medza pevnosti:  $\sigma_{Sch/D}$  190 [N/mm<sup>2</sup>]

Tolerancie: DIN 10305-4

Medza klzu podľa DIN 10216-5 Rp 1,0 do 50°C

## Výrobok

| Označenie    | Ø d2<br>(mm) | Tolerancia AD +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | Tolerancia ID +/-<br>(mm) | Prípado zaťaženia I<br>(bar) | Prípado zaťaženia III<br>(bar) |
|--------------|--------------|---------------------------|--------------|-----------|---------------------------|------------------------------|--------------------------------|
| PR 34-2 V4   | 34,0         | -                         | 30,0         | 2,00      | -                         | -                            | -                              |
| PR 14-1 V4   | 14,0         | -                         | 12,0         | 1,00      | -                         | -                            | -                              |
| PR 04-0.5 V4 | 4,0          | -                         | 3,0          | 0,50      | -                         | -                            | -                              |
| PR 04-1 V4   | 4,0          | 0,08                      | 2,0          | 1,00      | 0,15                      | 600                          | 408                            |
| PR 05-0.5 V4 | 5,0          | -                         | 4,0          | 0,50      | -                         | -                            | -                              |
| PR 05-1 V4   | 5,0          | -                         | 3,0          | 1,00      | -                         | -                            | -                              |
| PR 06-0.5 V4 | 6,0          | 0,08                      | 5,0          | 0,50      | 0,15                      | -                            | -                              |
| PR 06-1 V4   | 6,0          | 0,08                      | 4,0          | 1,00      | 0,15                      | 400                          | 287                            |
| PR 06-1.5 V4 | 6,0          | 0,08                      | 3,0          | 1,50      | 0,15                      | 660                          | 442                            |
| PR 06-2 V4   | 6,0          | 0,08                      | 2,0          | 2,00      | 0,15                      | 915                          | 575                            |
| PR 08-1 V4   | 8,0          | 0,08                      | 6,0          | 1,00      | 0,15                      | 300                          | 222                            |
| PR 08-1.5 V4 | 8,0          | 0,08                      | 5,0          | 1,50      | 0,15                      | 495                          | 347                            |
| PR 08-2 V4   | 8,0          | 0,08                      | 4,0          | 2,00      | 0,15                      | 690                          | 458                            |
| PR 08-2.5 V4 | 8,0          | -                         | 3,0          | 2,50      | -                         | -                            | -                              |
| PR 10-0.5 V4 | 10,0         | 0,08                      | 9,0          | 0,50      | 0,08                      | 105                          | 81                             |
| PR 10-1 V4   | 10,0         | 0,08                      | 8,0          | 1,00      | 0,15                      | 240                          | 181                            |
| PR 10-1.2 V4 | 10,0         | -                         | 7,6          | 1,20      | -                         | -                            | -                              |
| PR 10-1.5 V4 | 10,0         | 0,08                      | 7,0          | 1,50      | 0,15                      | 396                          | 285                            |
| PR 10-2 V4   | 10,0         | 0,08                      | 6,0          | 2,00      | 0,15                      | 552                          | 380                            |
| PR 10-2.5 V4 | 10,0         | -                         | 5,0          | 2,50      | -                         | -                            | -                              |
| PR 12-1 V4   | 12,0         | 0,08                      | 10,0         | 1,00      | 0,15                      | 200                          | 152                            |
| PR 12-1.5 V4 | 12,0         | 0,08                      | 9,0          | 1,50      | 0,15                      | 330                          | 242                            |
| PR 12-2 V4   | 12,0         | 0,08                      | 8,0          | 2,00      | 0,15                      | 460                          | 325                            |
| PR 12-3 V4   | 12,0         | 0,08                      | 6,0          | 3,00      | 0,25                      | 694                          | 461                            |
| PR 13-1 V4   | 13,0         | -                         | 11,0         | 1,00      | -                         | -                            | -                              |
| PR 14-1.5 V4 | 14,0         | 0,08                      | 11,0         | 1,50      | 0,15                      | 283                          | 210                            |
| PR 14-2 V4   | 14,0         | 0,08                      | 10,0         | 2,00      | 0,15                      | 394                          | 284                            |
| PR 14-2.5 V4 | 14,0         | 0,08                      | 9,0          | 2,50      | 0,15                      | 505                          | 353                            |
| PR 14-3 V4   | 14,0         | -                         | 8,0          | 3,00      | -                         | -                            | -                              |
| PR 15-1 V4   | 15,0         | 0,08                      | 13,0         | 1,00      | 0,08                      | 174                          | 134                            |
| PR 15-1.5 V4 | 15,0         | 0,08                      | 12,0         | 1,50      | 0,15                      | 264                          | 197                            |
| PR 15-2 V4   | 15,0         | 0,08                      | 11,0         | 2,00      | 0,15                      | 368                          | 267                            |
| PR 16-1 V 4  | 16,0         | -                         | 14,0         | 1,00      | -                         | -                            | -                              |
| PR 16-1.5 V4 | 16,0         | 0,08                      | 13,0         | 1,50      | 0,08                      | 261                          | 195                            |



Napriek čo najstarostlivejšej kontrole nemôžeme vylúčiť chyby a nepreberáme žiadnu záruku za zahnuté údaje.

09.06.2026

HANSA-FLEX AG

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Presná oceľová rúrka, metrická, 1.4571

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## Výrobok

| Označenie     | Ø d2<br>(mm) | Tolerancia AD +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | Tolerancia ID +/-<br>(mm) | Prípud zaťaženia I<br>(bar) | Prípud zaťaženia III<br>(bar) |
|---------------|--------------|---------------------------|--------------|-----------|---------------------------|-----------------------------|-------------------------------|
| PR 16-2 V4    | 16,0         | 0,08                      | 12,0         | 2,00      | 0,15                      | 345                         | 252                           |
| PR 16-2.5 V4  | 16,0         | 0,08                      | 11,0         | 2,50      | 0,15                      | 442                         | 314                           |
| PR 16-3 V4    | 16,0         | 0,08                      | 10,0         | 3,00      | 0,15                      | 540                         | 373                           |
| PR 16-4 V4    | 16,0         | -                         | 8,0          | 4,00      | -                         | -                           | -                             |
| PR 18-1 V4    | 18,0         | 0,08                      | 16,0         | 1,00      | 0,08                      | 145                         | 112                           |
| PR 18-1.5 V4  | 18,0         | 0,08                      | 15,0         | 1,50      | 0,08                      | 232                         | 175                           |
| PR 18-2 V4    | 18,0         | 0,08                      | 14,0         | 2,00      | 0,08                      | 318                         | 234                           |
| PR 18-2.5 V4  | 18,0         | 0,08                      | 13,0         | 2,50      | 0,15                      | 393                         | 283                           |
| PR 18-3 V4    | 18,0         | -                         | 12,0         | 3,00      | -                         | -                           | -                             |
| PR 18-4 V4    | 18,0         | -                         | 10,0         | 4,00      | -                         | -                           | -                             |
| PR 20-1 V 4   | 20,0         | 0,08                      | 18,0         | 1,00      | -                         | -                           | -                             |
| PR 20-1.5 V 4 | 20,0         | 0,08                      | 17,0         | 1,50      | -                         | -                           | -                             |
| PR 20-2 V4    | 20,0         | 0,08                      | 16,0         | 2,00      | 0,08                      | 287                         | 213                           |
| PR 20-2.5 V4  | 20,0         | 0,08                      | 15,0         | 2,50      | 0,15                      | 354                         | 258                           |
| PR 20-3 V4    | 20,0         | 0,08                      | 14,0         | 3,00      | 0,15                      | 432                         | 308                           |
| PR 20-3.5 V4  | 20,0         | 0,08                      | 13,0         | 3,50      | 0,15                      | 510                         | 355                           |
| PR 20-4 V4    | 20,0         | -                         | 12,0         | 4,00      | -                         | -                           | -                             |
| PR 22-1 V 4   | 22,0         | 0,08                      | 20,0         | 1,00      | -                         | -                           | -                             |
| PR 22-1.5 V4  | 22,0         | 0,08                      | 19,0         | 1,50      | 0,08                      | 190                         | 145                           |
| PR 22-2 V4    | 22,0         | 0,08                      | 18,0         | 2,00      | 0,08                      | 260                         | 195                           |
| PR 22-2.5 V4  | 22,0         | 0,08                      | 17,0         | 2,50      | 0,15                      | 321                         | 236                           |
| PR 22-3 V4    | 22,0         | 0,08                      | 16,0         | 3,00      | 0,15                      | 392                         | 283                           |
| PR 22-4 V4    | 22,0         | -                         | 14,0         | 4,00      | -                         | -                           | -                             |
| PR 22-6 V4    | 22,0         | -                         | 10,0         | 6,00      | -                         | -                           | -                             |
| PR 23-1.5 V4  | 23,0         | -                         | 20,0         | 1,50      | -                         | -                           | -                             |
| PR 24-4 V4    | 24,0         | -                         | 16,0         | 4,00      | -                         | -                           | -                             |
| PR 25-1.5 V4  | 25,0         | 0,08                      | 22,0         | 1,50      | 0,08                      | 167                         | 128                           |
| PR 25-2 V4    | 25,0         | 0,08                      | 21,0         | 2,00      | 0,08                      | 229                         | 173                           |
| PR 25-2.5 V4  | 25,0         | 0,08                      | 20,0         | 2,50      | 0,08                      | 292                         | 216                           |
| PR 25-3 V4    | 25,0         | 0,08                      | 19,0         | 3,00      | 0,15                      | 345                         | 252                           |
| PR 25-4 V4    | 25,0         | -                         | 17,0         | 4,00      | -                         | -                           | -                             |
| PR 25-5 V4    | 25,0         | -                         | 15,0         | 5,00      | -                         | -                           | -                             |
| PR 25-6 V4    | 25,0         | -                         | 13,0         | 6,00      | -                         | -                           | -                             |
| PR 28-1 V4    | 28,0         | -                         | 26,0         | 1,00      | -                         | -                           | -                             |
| PR 28-1.5 V4  | 28,0         | 0,08                      | 25,0         | 1,50      | 0,08                      | 149                         | 115                           |
| PR 28-2 V4    | 28,0         | 0,08                      | 24,0         | 2,00      | 0,08                      | 205                         | 156                           |
| PR 28-2.5 V4  | 28,0         | 0,08                      | 23,0         | 2,50      | 0,08                      | 260                         | 195                           |
| PR 28-3 V4    | 28,0         | -                         | 22,0         | 3,00      | -                         | -                           | -                             |
| PR 28-4 V4    | 28,0         | -                         | 20,0         | 4,00      | -                         | -                           | -                             |
| PR 28-5 V4    | 28,0         | -                         | 18,0         | 5,00      | -                         | -                           | -                             |
| PR 30-2 V4    | 30,0         | 0,08                      | 26,0         | 2,00      | 0,08                      | 191                         | 146                           |
| PR 30-2.5 V4  | 30,0         | 0,08                      | 25,0         | 2,50      | 0,08                      | 243                         | 183                           |
| PR 30-3 V4    | 30,0         | 0,08                      | 24,0         | 3,00      | 0,15                      | 288                         | 214                           |
| PR 30-4 V4    | 30,0         | 0,08                      | 22,0         | 4,00      | 0,15                      | 392                         | 282                           |
| PR 30-5 V4    | 30,0         | 0,08                      | 20,0         | 5,00      | 0,15                      | 496                         | 347                           |
| PR 32-1.5 V4  | 32,0         | -                         | 29,0         | 1,50      | -                         | -                           | -                             |
| PR 32-2 V4    | 32,0         | -                         | 28,0         | 2,00      | -                         | -                           | -                             |
| PR 32-2.5 V4  | 32,0         | -                         | 27,0         | 2,50      | -                         | -                           | -                             |
| PR 32-4 V4    | 32,0         | -                         | 26,0         | 4,00      | -                         | -                           | -                             |
| PR 32-6 V4    | 32,0         | -                         | 20,0         | 6,00      | -                         | -                           | -                             |
| PR 35-1.5 V 4 | 35,0         | 0,08                      | 32,0         | 1,50      | 0,08                      | 119                         | 93                            |
| PR 35-2 V4    | 35,0         | 0,15                      | 31,0         | 2,00      | 0,15                      | 151                         | 117                           |
| PR 35-2.5 V4  | 35,0         | 0,15                      | 30,0         | 2,50      | 0,15                      | 196                         | 149                           |
| PR 35-3 V4    | 35,0         | -                         | 29,0         | 3,00      | -                         | -                           | -                             |
| PR 35-4 V4    | 35,0         | -                         | 27,0         | 4,00      | -                         | -                           | -                             |
| PR 35-5 V 4   | 35,0         | 0,15                      | 25,0         | 5,00      | 0,15                      | 418                         | 299                           |
| PR 38-1.5 V4  | 38,0         | -                         | 35,0         | 1,50      | -                         | -                           | -                             |
| PR 38-2 V4    | 38,0         | -                         | 34,0         | 2,00      | -                         | -                           | -                             |
| PR 38-2.6 V4  | 38,0         | -                         | 32,8         | 2,60      | -                         | -                           | -                             |
| PR 38-3 V4    | 38,0         | -                         | 32,0         | 3,00      | -                         | -                           | -                             |
| PR 38-4 V4    | 38,0         | 0,15                      | 30,0         | 4,00      | 0,15                      | 303                         | 224                           |
| PR 38-5 V4    | 38,0         | 0,15                      | 28,0         | 5,00      | 0,15                      | 385                         | 278                           |
| PR 38-6 V4    | 38,0         | -                         | 26,0         | 6,00      | -                         | -                           | -                             |



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## Výrobok

| Označenie      | Ø d2<br>(mm) | Tolerancia AD +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | Tolerancia ID +/-<br>(mm) | Prípad zaťaženia I<br>(bar) | Prípad zaťaženia III<br>(bar) |
|----------------|--------------|---------------------------|--------------|-----------|---------------------------|-----------------------------|-------------------------------|
| PR 40-2 V4     | 40,0         | -                         | 36,0         | 2,00      | -                         | -                           | -                             |
| PR 42-2 V4     | 42,0         | 0,20                      | 38,0         | 2,00      | 0,20                      | 118                         | 92                            |
| PR 42-3 V4     | 42,0         | 0,20                      | 36,0         | 3,00      | 0,20                      | 193                         | 147                           |
| PR 42-6 V4     | 42,0         | -                         | 30,0         | 6,00      | -                         | -                           | -                             |
| PR 43-1.5 V4   | 43,0         | -                         | 40,0         | 1,50      | -                         | -                           | -                             |
| PR 50-1.5 V4   | 50,0         | -                         | 47,0         | 1,50      | -                         | -                           | -                             |
| PR 50-2 V4     | 50,0         | -                         | 46,0         | 2,00      | -                         | -                           | -                             |
| PR 50-4 V4     | 50,0         | -                         | 42,0         | 4,00      | -                         | -                           | -                             |
| PR 50-5 V4     | 50,0         | -                         | 40,0         | 5,00      | -                         | -                           | -                             |
| PR 50-6 V4     | 50,0         | -                         | 38,0         | 6,00      | -                         | -                           | -                             |
| PR 54-2 V4     | 54,0         | -                         | 50,0         | 2,00      | -                         | -                           | -                             |
| PR 57-2 V4     | 57,0         | -                         | 53,0         | 2,00      | -                         | -                           | -                             |
| PR 63.5-1.5 V4 | 63,5         | -                         | 60,5         | 1,50      | -                         | -                           | -                             |
| PR 64-2 V4     | 64,0         | -                         | 60,0         | 2,00      | -                         | -                           | -                             |
| PR 70-1.5 V4   | 70,0         | -                         | 67,0         | 1,50      | -                         | -                           | -                             |
| PR 70-2 V4     | 70,0         | -                         | 66,0         | 2,00      | -                         | -                           | -                             |
| PR 70-5 V4     | 70,0         | -                         | 60,0         | 5,00      | -                         | -                           | -                             |
| PR 101.5-2 V4  | 101,5        | -                         | 97,5         | 2,00      | -                         | -                           | -                             |
| PR 108-3 V4    | 108,0        | -                         | 102,0        | 3,00      | -                         | -                           | -                             |
| PR 129-2 V4    | 129,0        | -                         | 125,0        | 2,00      | -                         | -                           | -                             |
| PR 133-4 V4    | 133,0        | -                         | 125,0        | 4,00      | -                         | -                           | -                             |
| PR 152-2 V4    | 152,0        | -                         | 148,0        | 2,00      | -                         | -                           | -                             |
| PR 159-4.5 V4  | 159,0        | -                         | 150,0        | 4,50      | -                         | -                           | -                             |