

# PR V4 (M)

Precizna čelična cijev, metrička, 1.4571

**HANSA FLEX**

## Karakteristike

Izvedba Precizna čelična cijev, metrička

Materijal Oplemenjeni čelik 1.4571

Duljina cijevi 6 metara



## Napomena

Navedeni tlakovi odnose se na ravnu cijev.

Kod savijene cijevi potrebno je izračunati odgovarajuće debljine stijenki u skladu s DIN EN 13480-4.

## Dodatne informacije

Izračun prema DIN 2413 (nacrt)

Slučaj opterećenja I: statički (do 100 °C)

Slučaj opterećenja III: dinamički (do 200°C) Vibracijska širina = P bar

Vrijednost čvrstoće: K 234 [N/mm<sup>2</sup>]

Koeficijent sigurnosti: S 1,5

Trajna otpornost na bubrenje:  $\sigma_{Sch/D}$  190 [N/mm<sup>2</sup>]

Tolerancije: DIN 10305-4

Granica rastezanja prema 10216-5 Rp 1,0 do 50°C

## Artikli

| Naziv        | Ø d2<br>(mm) | AD tolerancija +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | ID tolerancija +/-<br>(mm) | Slučaj opterećenja I<br>(bar) | Slučaj opterećenja 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 V4   | 16,0         | -                          | 14,0         | 1,00      | -                          | -                             | -                               |
| PR 16-1.5 V4 | 16,0         | 0,08                       | 13,0         | 1,50      | 0,08                       | 261                           | 195                             |



Usprkos pažljivoj provjeri ne mogu se isključiti pogreške i zbog toga ne preuzimamo odgovornost za sadržane podatke.

03.05.2026

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# PR V4 (M)

Precizna čelična cijev, metrička, 1.4571

**HANSA FLEX**

| Artikli       |              |                            |              |           |                            |                               |                                 |
|---------------|--------------|----------------------------|--------------|-----------|----------------------------|-------------------------------|---------------------------------|
| Naziv         | Ø d2<br>(mm) | AD tolerancija +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | ID tolerancija +/-<br>(mm) | Slučaj opterećenja I<br>(bar) | Slučaj opterećenja 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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| Artikli        |              |                            |              |           |                            |                               |                                 |
|----------------|--------------|----------------------------|--------------|-----------|----------------------------|-------------------------------|---------------------------------|
| Naziv          | Ø d2<br>(mm) | AD tolerancija +/-<br>(mm) | Ø d1<br>(mm) | S<br>(mm) | ID tolerancija +/-<br>(mm) | Slučaj opterećenja I<br>(bar) | Slučaj opterećenja 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      | -                          | -                             | -                               |