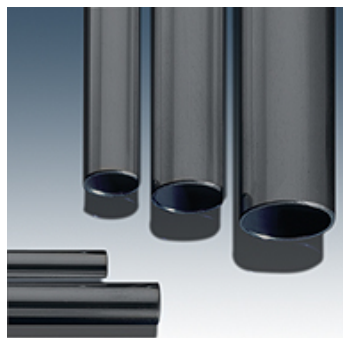


Karakteristike

| | |
|--------------------|----------------------------------|
| Izvedba | Precizna čelična cijev, metrička |
| Norma | DIN EN 10305- 4 |
| Materijal | Čelik ST 37.4 NBK (1.0255) |
| Površinska zaštita | fosfatirana i nauljena |
| 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 (nacrtno)

Slučaj opterećenja I: statički (do 100 °C)

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

Vrijednost čvrstoće: K 235 [N/mm²]

Koeficijent sigurnosti: S 1,5

Trajna otpornost na bubrenje: $\sigma_{Sch/D 225}$ [N/mm²]

Tolerancije: DIN 10305- 4

Artikli

| Naziv | Ø d2 (mm) | AD tolerancija +/- (mm) | Ø d1 (mm) | ID tolerancija +/- (mm) | S (mm) | Slučaj opterećenja I (bar) | Slučaj opterećenja III (bar) |
|------------|--------------|----------------------------|--------------|----------------------------|-----------|-------------------------------|---------------------------------|
| PR 60-8 | 60,0 | - | 44,0 | - | 8,00 | - | - |
| PR 18-4 | 18,0 | 0,08 | 10,0 | 0,15 | 4,00 | - | - |
| PR 04-0.5 | 4,0 | 0,08 | 3,0 | 0,15 | 0,50 | 210 | 189 |
| PR 04-0.75 | 4,0 | 0,08 | 2,5 | 0,15 | 0,75 | 405 | 345 |
| PR 04-1 | 4,0 | 0,08 | 2,0 | 0,15 | 1,00 | 602 | 484 |
| PR 05-0.75 | 5,0 | 0,08 | 3,5 | 0,15 | 0,75 | 325 | 282 |
| PR 05-1 | 5,0 | 0,08 | 3,0 | 0,15 | 1,00 | 482 | 400 |
| PR 06-0.75 | 6,0 | 0,08 | 4,5 | 0,12 | 0,75 | 286 | 251 |
| PR 06-1 | 6,0 | 0,08 | 4,0 | 0,12 | 1,00 | 416 | 352 |
| PR 06-1.5 | 6,0 | 0,08 | 3,0 | 0,15 | 1,50 | 663 | 524 |
| PR 06-2 | 6,0 | 0,08 | 2,0 | 0,15 | 2,00 | 924 | 683 |
| PR 06-2.25 | 6,0 | 0,08 | 1,5 | 0,15 | 2,25 | 1053 | 755 |
| PR 08-1 | 8,0 | 0,08 | 6,0 | 0,10 | 1,00 | 320 | 278 |
| PR 08-1.5 | 8,0 | 0,08 | 5,0 | 0,10 | 1,50 | 516 | 424 |
| PR 08-2 | 8,0 | 0,08 | 4,0 | 0,15 | 2,00 | 693 | 543 |
| PR 08-2.5 | 8,0 | 0,08 | 3,0 | 0,15 | 2,50 | 888 | 663 |
| PR 10-1 | 10,0 | 0,08 | 8,0 | 0,08 | 1,00 | 263 | 232 |
| PR 10-1.5 | 10,0 | 0,08 | 7,0 | 0,12 | 1,50 | 407 | 345 |
| PR 10-2 | 10,0 | 0,08 | 6,0 | 0,15 | 2,00 | 554 | 451 |
| PR 10-2.5 | 10,0 | 0,08 | 5,0 | 0,15 | 2,50 | 711 | 555 |
| PR 10-3 | 10,0 | 0,08 | 4,0 | 0,15 | 3,00 | 867 | 650 |
| PR 10-4 | 10,0 | 0,08 | 2,0 | 0,15 | 4,00 | 1178 | 820 |
| PR 12-1 | 12,0 | 0,08 | 10,0 | 0,08 | 1,00 | 219 | 196 |
| PR 12-1.5 | 12,0 | 0,08 | 9,0 | 0,10 | 1,50 | 344 | 297 |
| PR 12-2 | 12,0 | 0,08 | 8,0 | 0,12 | 2,00 | 469 | 391 |
| PR 12-2.5 | 12,0 | 0,08 | 7,0 | 0,15 | 2,50 | 592 | 477 |
| PR 12-3 | 12,0 | 0,08 | 6,0 | 0,15 | 3,00 | 723 | 562 |
| PR 12-4 | 12,0 | 0,08 | 4,0 | 0,15 | 4,00 | 984 | 717 |
| PR 14-1 | 14,0 | 0,08 | 12,0 | 0,08 | 1,00 | 187 | 169 |
| PR 14-1.5 | 14,0 | 0,08 | 11,0 | 0,08 | 1,50 | 299 | 262 |
| PR 14-2 | 14,0 | 0,08 | 10,0 | 0,10 | 2,00 | 407 | 345 |
| PR 14-2.5 | 14,0 | 0,08 | 9,0 | 0,12 | 2,50 | 514 | 423 |
| PR 14-3 | 14,0 | 0,08 | 8,0 | 0,15 | 3,00 | 619 | 495 |
| PR 14-3.5 | 14,0 | 0,08 | 7,0 | 0,15 | 3,50 | 731 | 568 |
| PR 15-1 | 15,0 | 0,08 | 13,0 | 0,08 | 1,00 | 175 | 159 |



PR (M)

Precizna čelična cijev, metrička, EN 10305-4, E235+N

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| Artikli | | | | | | | |
|-----------|--------------|----------------------------|--------------|----------------------------|-----------|-------------------------------|---------------------------------|
| Naziv | Ø d2 (mm) | AD tolerancija +/- (mm) | Ø d1 (mm) | ID tolerancija +/- (mm) | S (mm) | Slučaj opterećenja I (bar) | Slučaj opterećenja III (bar) |
| PR 15-1.5 | 15,0 | 0,08 | 12,0 | 0,08 | 1,50 | 279 | 246 |
| PR 15-2 | 15,0 | 0,08 | 11,0 | 0,10 | 2,00 | 380 | 324 |
| PR 15-2.5 | 15,0 | 0,08 | 10,0 | 0,12 | 2,50 | 480 | 398 |
| PR 15-3 | 15,0 | 0,08 | 9,0 | 0,15 | 3,00 | 578 | 467 |
| PR 16-1 | 16,0 | 0,08 | 14,0 | 0,08 | 1,00 | 164 | 149 |
| PR 16-1.5 | 16,0 | 0,08 | 13,0 | 0,08 | 1,50 | 262 | 231 |
| PR 16-2 | 16,0 | 0,08 | 12,0 | 0,15 | 2,00 | 346 | 298 |
| PR 16-2.5 | 16,0 | 0,08 | 11,0 | 0,12 | 2,50 | 450 | 377 |
| PR 16-3 | 16,0 | 0,08 | 10,0 | 0,15 | 3,00 | 542 | 442 |
| PR 16-4 | 16,0 | 0,08 | 8,0 | 0,15 | 4,00 | 738 | 572 |
| PR 17-2 | 17,0 | 0,08 | 13,0 | 0,15 | 2,00 | 325 | 281 |
| PR 18-1 | 18,0 | 0,08 | 16,0 | 0,08 | 1,00 | 146 | 133 |
| PR 18-1.5 | 18,0 | 0,08 | 15,0 | 0,08 | 1,50 | 233 | 207 |
| PR 18-2 | 18,0 | 0,08 | 14,0 | 0,08 | 2,00 | 320 | 278 |
| PR 18-2.5 | 18,0 | 0,08 | 13,0 | 0,15 | 2,50 | 395 | 335 |
| PR 18-3 | 18,0 | 0,08 | 12,0 | 0,15 | 3,00 | 482 | 400 |
| PR 20-1.5 | 20,0 | 0,08 | 17,0 | 0,08 | 1,50 | 209 | 188 |
| PR 20-2 | 20,0 | 0,08 | 16,0 | 0,08 | 2,00 | 288 | 252 |
| PR 20-2.5 | 20,0 | 0,08 | 15,0 | 0,15 | 2,50 | 355 | 305 |
| PR 20-3 | 20,0 | 0,08 | 14,0 | 0,15 | 3,00 | 433 | 364 |
| PR 20-3.5 | 20,0 | 0,08 | 13,0 | 0,15 | 3,50 | 512 | 421 |
| PR 20-4 | 20,0 | 0,08 | 12,0 | 0,15 | 4,00 | 590 | 475 |
| PR 22-1 | 22,0 | 0,08 | 20,0 | 0,08 | 1,00 | 119 | 109 |
| PR 22-1.5 | 22,0 | 0,08 | 19,0 | 0,08 | 1,50 | 190 | 172 |
| PR 22-2 | 22,0 | 0,08 | 18,0 | 0,08 | 2,00 | 262 | 231 |
| PR 22-2.5 | 22,0 | 0,08 | 17,0 | 0,08 | 2,50 | 333 | 288 |
| PR 22-3 | 22,0 | 0,08 | 16,0 | 0,15 | 3,00 | 394 | 335 |
| PR 25-1 | 25,0 | 0,08 | 23,0 | 0,08 | 1,00 | 105 | 97 |
| PR 25-1.5 | 25,0 | 0,08 | 20,0 | 0,08 | 1,50 | 167 | 152 |
| PR 25-2 | 25,0 | 0,08 | 21,0 | 0,08 | 2,00 | 230 | 205 |
| PR 25-2.5 | 25,0 | 0,08 | 20,0 | 0,08 | 2,50 | 293 | 256 |
| PR 25-3 | 25,0 | 0,08 | 19,0 | 0,15 | 3,00 | 347 | 299 |
| PR 25-3.5 | 25,0 | 0,08 | 18,0 | 0,15 | 3,50 | 409 | 347 |
| PR 25-4 | 25,0 | 0,08 | 17,0 | 0,15 | 4,00 | 472 | 393 |
| PR 25-4.5 | 25,0 | 0,08 | 16,0 | 0,15 | 4,50 | 535 | 437 |
| PR 25-5 | 25,0 | 0,08 | 15,0 | 0,15 | 5,00 | 597 | 480 |
| PR 28-1 | 28,0 | 0,08 | 26,0 | 0,08 | 1,00 | 93 | 87 |
| PR 28-1.5 | 28,0 | 0,08 | 25,0 | 0,08 | 1,50 | 149 | 136 |
| PR 28-2 | 28,0 | 0,08 | 24,0 | 0,08 | 2,00 | 205 | 184 |
| PR 28-2.5 | 28,0 | 0,08 | 23,0 | 0,08 | 2,50 | 261 | 231 |
| PR 28-3 | 28,0 | 0,08 | 20,0 | 0,15 | 3,00 | 309 | 270 |
| PR 28-3.5 | 28,0 | - | 21,0 | - | 3,50 | - | - |
| PR 28-4 | 28,0 | 0,08 | 20,0 | 0,15 | 4,00 | 421 | 355 |
| PR 28-4.5 | 28,0 | 0,08 | 19,0 | 0,15 | 4,50 | 477 | 396 |
| PR 28-5 | 28,0 | 0,08 | 18,0 | 0,15 | 5,00 | 533 | 436 |
| PR 30-1.5 | 30,0 | 0,08 | 27,0 | 0,08 | 1,50 | 139 | 128 |
| PR 30-2 | 30,0 | 0,08 | 26,0 | 0,08 | 2,00 | 192 | 173 |
| PR 30-2.5 | 30,0 | 0,08 | 25,0 | 0,08 | 2,50 | 244 | 217 |
| PR 30-3 | 30,0 | 0,08 | 24,0 | 0,15 | 3,00 | 289 | 253 |
| PR 30-4 | 30,0 | 0,08 | 20,0 | 0,15 | 4,00 | 393 | 334 |
| PR 30-5 | 30,0 | 0,08 | 20,0 | 0,15 | 5,00 | 498 | 411 |
| PR 30-6 | 30,0 | 0,15 | 18,0 | 0,15 | 6,00 | 595 | 478 |
| PR 32-1.5 | 32,0 | 0,08 | 29,0 | 0,08 | 1,50 | 131 | 120 |
| PR 32-2.5 | 32,0 | - | 27,0 | - | 2,50 | - | - |
| PR 32-4 | 32,0 | - | 24,0 | - | 4,00 | - | - |
| PR 35-2 | 35,0 | 0,15 | 31,0 | 0,15 | 2,00 | 152 | 138 |
| PR 35-2.5 | 35,0 | 0,15 | 30,0 | 0,15 | 2,50 | 196 | 177 |
| PR 35-3 | 35,0 | 0,15 | 29,0 | 0,15 | 3,00 | 241 | 214 |
| PR 35-4 | 35,0 | 0,15 | 27,0 | 0,15 | 4,00 | 331 | 286 |
| PR 35-5 | 35,0 | 0,15 | 25,0 | 0,15 | 5,00 | 420 | 355 |
| PR 35-6 | 35,0 | 0,15 | 23,0 | 0,15 | 6,00 | 510 | 420 |
| PR 38-2.5 | 38,0 | 0,15 | 33,0 | 0,15 | 2,50 | 181 | 163 |
| PR 38-3 | 38,0 | 0,15 | 32,0 | 0,15 | 3,00 | 222 | 198 |



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

17.04.2026

HANSA-FLEX AG

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PR (M)

Precizna čelična cijev, metrička, EN 10305-4, E235+N



| Artikli | | | | | | | |
|----------|--------------|----------------------------|--------------|----------------------------|-----------|-------------------------------|---------------------------------|
| Naziv | Ø d2 (mm) | AD tolerancija +/- (mm) | Ø d1 (mm) | ID tolerancija +/- (mm) | S (mm) | Slučaj opterećenja I (bar) | Slučaj opterećenja III (bar) |
| PR 38-4 | 38,0 | 0,15 | 30,0 | 0,15 | 4,00 | 305 | 266 |
| PR 38-5 | 38,0 | 0,15 | 28,0 | 0,15 | 5,00 | 387 | 330 |
| PR 38-6 | 38,0 | 0,15 | 26,0 | 0,15 | 6,00 | 469 | 391 |
| PR 38-7 | 38,0 | 0,15 | 24,0 | 0,15 | 7,00 | 552 | 449 |
| PR 40-6 | 40,0 | - | 28,0 | - | 6,00 | - | - |
| PR 42-2 | 42,0 | 0,20 | 38,0 | 0,20 | 2,00 | 119 | 109 |
| PR 42-3 | 42,0 | 0,20 | 36,0 | 0,20 | 3,00 | 193 | 174 |
| PR 42-4 | 42,0 | 0,20 | 34,0 | 0,20 | 4,00 | 268 | 236 |
| PR 42-5 | 42,0 | 0,20 | 32,0 | 0,20 | 5,00 | 343 | 296 |
| PR 45-5 | 45,0 | 0,20 | 35,0 | 0,20 | 5,00 | 320 | 278 |
| PR 50-4 | 50,0 | 0,20 | 42,0 | 0,20 | 4,00 | 225 | 201 |
| PR 50-5 | 50,0 | 0,20 | 40,0 | 0,20 | 5,00 | 288 | 252 |
| PR 50-6 | 50,0 | 0,20 | 38,0 | 0,20 | 6,00 | 350 | 302 |
| PR 60-3 | 60,0 | 0,25 | 54,0 | 0,25 | 3,00 | 130 | 119 |
| PR 60-4 | 60,0 | 0,25 | 52,0 | 0,25 | 4,00 | 182 | 165 |
| PR 60-6 | 60,0 | - | 48,0 | - | 6,00 | - | - |
| PR 60-10 | 60,0 | 0,25 | 40,0 | 0,25 | 10,00 | 496 | 410 |
| PR 65-8 | 65,0 | 0,30 | 49,0 | 0,30 | 8,00 | 356 | 306 |
| PR 80-10 | 80,0 | 0,35 | 60,0 | 0,35 | 10,00 | 364 | 312 |