# HydroControl VFS

## Roestvaststalen strangregelafsluiter
## PN 16/PN 25, DN 65...300

Roestvaststalen strangregelafsluiter voor statische hydraulische inregeling van leidingnetwerken in gesloten verwarmings- en koelwatersystemen. De afsluiter beschikt over een meetfunctie via de klepzitting. Alle onderdelen die in contact komen met het medium zijn gemaakt van roestvaststaal. De afsluiter is leverbaar in twee verschillende materiaalsoorten.

### Eigenschappen

- Stroomregeling
- Afsluitbare en verzegelbare voorinstelling
- Barrière
- Aansluiting voor flowmeting

### Kenmerken

+ Alle onderdelen die in contact komen met het medium zijn gemaakt van roestvaststaal (behalve de afdichtingen)
+ Verkrijgbaar in roestvaststaal CF8 of CF8M (equivalent aan 1.4308 / SAE 304 of 1.4408 / SAE 316)
+ Verkrijgbaar tot DN 300 met flenzen volgens EN 1092-1, PN 16 of PN 25

Wijzigingen voorbehouden • Alle rechten voorbehouden

# Productinformatie

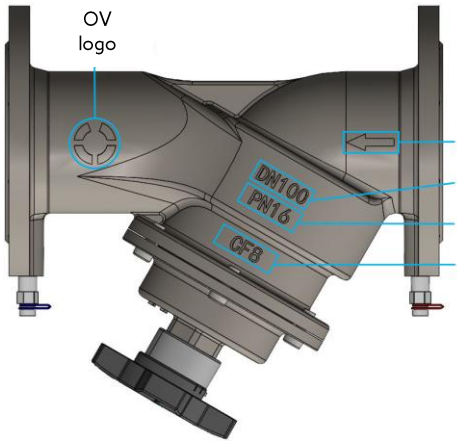
## Technische gegevens

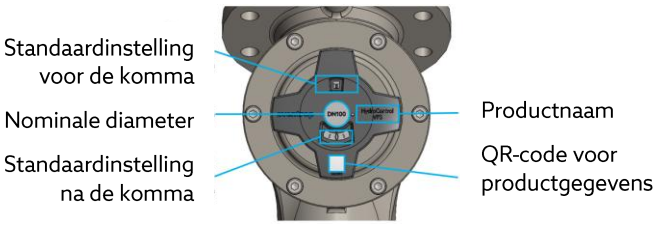
| | |
|---|---|
| **Nominale diameters** | DN 65...300 |
| **Varianten** | met flenzen volgens EN 1092-1 / PN 16 / rvs CF8<br>met flenzen volgens EN 1092-1 / PN 16 / rvs CF8M<br>met flenzen volgens EN 1092-1 / PN 25 / rvs CF8<br>met flenzen volgens EN 1092-1 / PN 25 / rvs CF8M |
| **Bedrijfstemperatuur** | -10...+95 °C |
| **Werkdruk** | PN 16 of PN 25 |
| **Medium** | Verwarmings- en koelwater volgens VDI 2035 of ÖNORM 5195<br>Water-/glycolmengsels met max. 50% glycolgehalte |
| **Kvs-waarde** | 86...1276 |

## Materialen

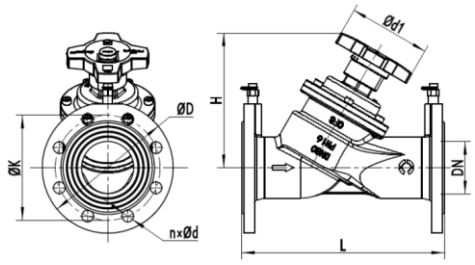
| Component | Materiaal |
|---|---|
| Handwielset met voorinstelling | Polyamide kunststof |
| Hoekige zittingbehuizing, kopstuk en regelkegel | **Artikelnr. 10635..:** rvs CF8<br>(komt overeen met materiaalnummer 1.4308, vergelijkbaar 1.4301 (A2), SAE 304)<br>**Artikelnr. 10636..:** rvs CF8M<br>(komt overeen met materiaalnummer 1.4408, vergelijkbaar 1.4401 (A4) SAE 316) |
| Spindel, behuizing meetventielen | **Artikelnr. 10635..:** rvs 304<br>(komt overeen met materiaalnummer 1.4301 (A2), SAE 304)<br>**Artikelnr. 10636..:** rvs 316<br>(komt overeen met materiaalnummer 1.4401 (A4) SAE 316) |
| Klepafdichtingen en zittingafdichtingen | EPDM |

## Labeling

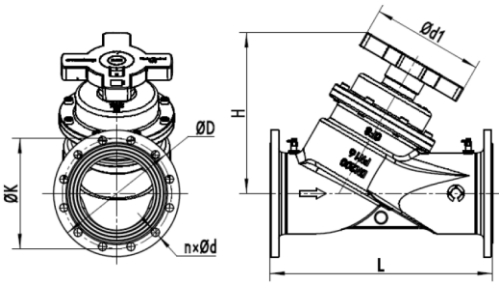


# Afmetingen




HydroControl VFS DN 65...150

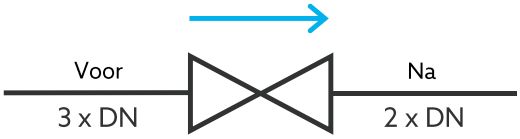


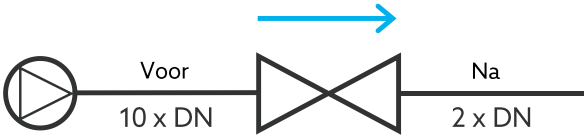

HydroControl VFS DN 200...300

| | | | | PN 16 | | | | PN 25 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | L [mm] | H [mm] | Ød1 [mm] | ØD [mm] | ØK [mm] | n x Ød [mm] | Gewicht [kg] | ØD [mm] | ØK [mm] | n x Ød [mm] | Gewicht [kg] |
| **65** | 290 | 195 | 125 | 185 | 145 | 4 x 18 | 14 | 185 | 145 | 8 x 18 | 14 |
| **80** | 310 | 206 | 125 | 200 | 160 | 8 x 18 | 17 | 200 | 160 | 8 x 18 | 17 |
| **100** | 350 | 237 | 125 | 220 | 180 | 8 x 18 | 25 | 235 | 190 | 8 x 22 | 27 |
| **125** | 400 | 244 | 125 | 250 | 210 | 8 x 18 | 33 | 270 | 220 | 8 x 26 | 35 |
| **150** | 480 | 281 | 125 | 285 | 240 | 8 x 22 | 49 | 300 | 250 | 8 x 26 | 50 |
| **200** | 600 | 421 | 300 | 340 | 295 | 12 x 22 | 87 | 360 | 310 | 12 x 26 | 90 |
| **250** | 730 | 460 | 300 | 405 | 355 | 12 x 26 | 136 | 425 | 370 | 12 x 30 | 142 |
| **300** | 850 | 500 | 300 | 460 | 410 | 12 x 26 | 178 | 485 | 430 | 16 x 30 | 185 |

# Installatie

Inbouwlengte voor en na de appendage.




# Artikelnummers

| | | Roestvaststaal CF8 (1.4308) | | Roestvaststaal CF8M (1.4408) | |
|---|---|---|---|---|---|
| Nonminale diameter | Kvs-waarde | Art.nr. PN 16 | Art.nr. PN 25 | Art.nr. PN 16 | Art.nr. PN 25 |
| **DN 65** | 86,2 | 1063551 | 1063581 | 1063651 | 1063681 |
| **DN 80** | 138,4 | 1063552 | 1063582 | 1063652 | 1063682 |
| **DN 100** | 205,2 | 1063553 | 1063583 | 1063653 | 1063683 |
| **DN 125** | 314,0 | 1063554 | 1063584 | 1063654 | 1063684 |
| **DN 150** | 405,8 | 1063555 | 1063585 | 1063655 | 1063685 |
| **DN 200** | 795,1 | 1063556 | 1063586 | 1063656 | 1063686 |
| **DN 250** | 1087,8 | 1063557 | 1063587 | 1063657 | 1063687 |
| **DN 300** | 1276,2 | 1063558 | 1063588 | 1063658 | 1063688 |

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# Verklaring

## Kv-waarde

| V | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 | DN 200 | DN 250 | DN 300 |
|---|---|---|---|---|---|---|---|---|
| **1,0** | **4,6** | **6,6** | **4,8** | **17,0** | **18,0** | **57,7** | **70,4** | **60,3** |
| **1,1** | 5,00 | 7,30 | 5,60 | 18,80 | 20,50 | 63,00 | 78,20 | 68,50 |
| **1,2** | 5,10 | 7,90 | 6,50 | 20,00 | 22,80 | 68,00 | 86,40 | 77,70 |
| **1,3** | 5,40 | 8,50 | 7,40 | 21,50 | 25,20 | 73,50 | 94,40 | 87,70 |
| **1,4** | 5,60 | 9,30 | 8,30 | 23,00 | 27,80 | 77,80 | 103,60 | 97,70 |
| **1,5** | 5,80 | 9,90 | 9,40 | 24,50 | 30,20 | 82,80 | 112,00 | 107,70 |
| **1,6** | 6,00 | 10,40 | 10,60 | 25,70 | 32,70 | 88,20 | 120,80 | 118,20 |
| **1,7** | 6,30 | 11,30 | 11,80 | 27,60 | 35,10 | 94,20 | 129,80 | 129,60 |
| **1,8** | 6,80 | 11,90 | 13,00 | 29,10 | 38,10 | 99,90 | 138,80 | 139,60 |
| **1,9** | 7,20 | 12,60 | 14,20 | 31,00 | 40,50 | 105,80 | 147,60 | 149,60 |
| **2,0** | **7,8** | **13,5** | **15,6** | **32,8** | **43,4** | **113,2** | **156,3** | **159,6** |
| **2,1** | 8,50 | 14,20 | 17,10 | 34,90 | 46,20 | 121,10 | 164,80 | 168,80 |
| **2,2** | 9,20 | 14,90 | 18,70 | 36,90 | 49,50 | 129,60 | 173,80 | 178,40 |
| **2,3** | 10,00 | 15,80 | 20,30 | 39,00 | 52,60 | 137,50 | 182,40 | 188,00 |
| **2,4** | 11,00 | 16,30 | 21,90 | 41,00 | 56,10 | 146,00 | 191,00 | 197,70 |
| **2,5** | 11,90 | 17,30 | 23,60 | 43,50 | 59,80 | 155,10 | 200,00 | 207,60 |
| **2,6** | 13,00 | 17,90 | 25,40 | 45,80 | 62,80 | 165,00 | 208,80 | 216,80 |
| **2,7** | 14,00 | 18,90 | 27,40 | 48,50 | 66,10 | 175,00 | 217,60 | 225,60 |
| **2,8** | 15,20 | 20,20 | 29,30 | 51,30 | 69,80 | 185,20 | 225,90 | 233,80 |
| **2,9** | 16,60 | 21,40 | 31,30 | 54,00 | 72,60 | 196,40 | 233,90 | 242,00 |
| **3,0** | **18,0** | **23,4** | **33,2** | **57,1** | **75,8** | **207,9** | **241,9** | **249,5** |
| **3,1** | 19,60 | 25,70 | 35,30 | 60,30 | 78,80 | 220,00 | 249,80 | 256,20 |
| **3,2** | 21,20 | 27,80 | 37,40 | 64,00 | 81,60 | 233,10 | 256,60 | 262,60 |
| **3,3** | 23,10 | 30,20 | 39,50 | 68,00 | 84,40 | 245,60 | 263,40 | 268,20 |
| **3,4** | 25,20 | 33,20 | 41,70 | 72,00 | 86,80 | 260,00 | 269,60 | 273,90 |
| **3,5** | 27,10 | 35,80 | 44,00 | 76,00 | 89,20 | 274,50 | 275,90 | 278,80 |
| **3,6** | 29,20 | 38,60 | 46,60 | 80,00 | 92,20 | 288,80 | 282,20 | 283,60 |
| **3,7** | 31,20 | 41,90 | 49,00 | 84,50 | 94,50 | 302,80 | 289,20 | 288,00 |
| **3,8** | 33,30 | 45,20 | 51,80 | 89,00 | 97,10 | 317,40 | 296,00 | 293,60 |
| **3,9** | 35,50 | 48,30 | 54,70 | 93,30 | 99,60 | 330,80 | 303,80 | 299,80 |
| **4,0** | **37,4** | **51,3** | **57,7** | **97,8** | **102,6** | **344,4** | **311,3** | **305,4** |
| **4,1** | 39,50 | 54,50 | 61,30 | 102,60 | 105,30 | 358,80 | 319,90 | 312,00 |
| **4,2** | 41,70 | 57,60 | 65,20 | 107,00 | 108,20 | 372,50 | 329,40 | 317,40 |
| **4,3** | 43,90 | 60,90 | 69,20 | 112,00 | 110,80 | 386,00 | 338,40 | 322,80 |
| **4,4** | 46,00 | 64,40 | 73,20 | 116,60 | 113,80 | 400,50 | 348,00 | 328,00 |
| **4,5** | 48,00 | 67,80 | 77,60 | 121,80 | 116,20 | 414,10 | 358,20 | 334,00 |
| **4,6** | 50,10 | 70,90 | 82,00 | 126,90 | 119,20 | 427,20 | 368,40 | 340,90 |
| **4,7** | 52,20 | 74,30 | 86,00 | 131,90 | 122,50 | 441,20 | 378,20 | 348,00 |
| **4,8** | 54,20 | 77,70 | 90,20 | 136,80 | 125,40 | 453,80 | 388,40 | 356,30 |
| **4,9** | 56,00 | 80,60 | 94,90 | 141,80 | 129,10 | 465,50 | 399,40 | 365,80 |
| **5,0** | **57,6** | **83,3** | **99,0** | **147,1** | **132,5** | **476,5** | **409,0** | **377,5** |

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| V | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 | DN 200 | DN 250 | DN 300 |
|---|---|---|---|---|---|---|---|---|
| **5,1** | 59,10 | 85,90 | 103,10 | 152,20 | 136,10 | 487,50 | 423,20 | 390,50 |
| **5,2** | 60,50 | 88,20 | 107,40 | 158,00 | 140,20 | 496,80 | 437,90 | 406,00 |
| **5,3** | 61,80 | 90,60 | 111,50 | 163,20 | 144,80 | 505,50 | 452,60 | 422,80 |
| **5,4** | 63,00 | 93,10 | 115,60 | 168,90 | 149,10 | 514,80 | 467,40 | 440,80 |
| **5,5** | 64,00 | 95,10 | 119,80 | 174,80 | 153,60 | 522,80 | 482,60 | 459,80 |
| **5,6** | 65,00 | 97,10 | 123,70 | 180,00 | 158,00 | 530,80 | 497,20 | 479,60 |
| **5,7** | 66,00 | 98,80 | 127,60 | 185,50 | 162,50 | 538,40 | 511,50 | 499,20 |
| **5,8** | 67,00 | 100,60 | 131,50 | 191,10 | 167,20 | 545,20 | 525,40 | 518,20 |
| **5,9** | 67,90 | 102,10 | 135,40 | 195,80 | 171,80 | 552,50 | 539,60 | 537,00 |
| **6,0** | **68,8** | **103,8** | **139,2** | **200,6** | **176,7** | **560,1** | **554,2** | **555,9** |
| **6,1** | 69,60 | 105,00 | 142,70 | 204,90 | 181,30 | 566,80 | 567,80 | 568,80 |
| **6,2** | 70,50 | 106,10 | 146,30 | 209,10 | 186,60 | 574,00 | 581,00 | 583,80 |
| **6,3** | 71,20 | 106,90 | 149,80 | 213,00 | 191,80 | 578,80 | 595,30 | 597,60 |
| **6,4** | 71,90 | 107,80 | 153,20 | 216,90 | 197,40 | 585,00 | 609,00 | 611,60 |
| **6,5** | 72,70 | 108,20 | 156,50 | 220,50 | 202,50 | 590,50 | 622,60 | 625,80 |
| **6,6** | 73,20 | 108,60 | 159,50 | 224,00 | 207,80 | 596,20 | 635,50 | 639,60 |
| **6,7** | 73,90 | 109,30 | 162,50 | 227,80 | 213,40 | 602,50 | 648,60 | 654,00 |
| **6,8** | 74,50 | 110,00 | 165,50 | 231,10 | 217,90 | 608,20 | 660,80 | 666,50 |
| **6,9** | 75,10 | 110,70 | 168,20 | 234,80 | 223,00 | 615,00 | 672,40 | 678,80 |
| **7,0** | **75,7** | **111,9** | **170,6** | **238,0** | **227,7** | **622,1** | **683,1** | **691,2** |
| **7,1** | 76,30 | 113,20 | 172,20 | 241,20 | 232,40 | 630,00 | 691,80 | 702,30 |
| **7,2** | 77,00 | 114,20 | 173,30 | 244,50 | 236,00 | 638,80 | 699,20 | 712,40 |
| **7,3** | 77,50 | 115,80 | 174,20 | 248,00 | 240,00 | 646,80 | 704,80 | 722,10 |
| **7,4** | 78,00 | 116,90 | 175,00 | 251,00 | 244,00 | 656,20 | 710,60 | 731,40 |
| **7,5** | 78,60 | 118,60 | 176,00 | 253,70 | 247,50 | 665,50 | 715,40 | 740,00 |
| **7,6** | 79,20 | 120,20 | 177,00 | 256,80 | 251,00 | 674,60 | 721,00 | 749,60 |
| **7,7** | 79,70 | 121,80 | 177,50 | 260,20 | 254,90 | 683,80 | 727,40 | 758,40 |
| **7,8** | 80,20 | 123,20 | 178,40 | 263,80 | 258,80 | 692,00 | 734,80 | 768,30 |
| **7,9** | 80,70 | 124,80 | 179,20 | 267,30 | 262,80 | 700,50 | 745,00 | 778,80 |
| **8,0** | **81,2** | **126,0** | **180,7** | **270,7** | **266,9** | **707,4** | **758,0** | **790,4** |
| **8,1** | 81,80 | 127,40 | 182,50 | 274,80 | 271,70 | 714,50 | 773,20 | 802,40 |
| **8,2** | 82,20 | 128,60 | 184,80 | 279,00 | 276,20 | 720,00 | 795,00 | 816,20 |
| **8,3** | 82,80 | 129,80 | 187,00 | 283,00 | 281,50 | 726,10 | 817,00 | 829,80 |
| **8,4** | 83,20 | 131,00 | 189,70 | 287,60 | 286,30 | 732,50 | 841,00 | 843,80 |
| **8,5** | 83,70 | 132,20 | 192,00 | 291,90 | 291,70 | 737,50 | 867,00 | 858,80 |
| **8,6** | 84,20 | 133,70 | 194,50 | 296,20 | 296,70 | 743,00 | 895,00 | 873,80 |
| **8,7** | 84,70 | 134,80 | 197,20 | 300,50 | 302,30 | 747,50 | 919,00 | 888,60 |
| **8,8** | 85,20 | 136,00 | 199,90 | 305,00 | 306,80 | 752,00 | 939,00 | 903,80 |
| **8,9** | 85,70 | 137,20 | 202,40 | 309,50 | 312,10 | 756,50 | 959,00 | 918,20 |
| **9,0** | **86,2** | **138,4** | **205,2** | **314,0** | **316,7** | **761,2** | **973,7** | **933,3** |
| **9,1** | | | | | 321,00 | 765,20 | 981,00 | 943,60 |
| **9,2** | | | | | 325,50 | 769,50 | 984,70 | 953,60 |
| **9,3** | | | | | 330,00 | 772,50 | 989,00 | 963,60 |
| **9,4** | | | | | 334,70 | 776,00 | 990,60 | 972,80 |
| **9,5** | | | | | 338,80 | 779,60 | 990,80 | 983,40 |
| **9,6** | | | | | 342,80 | 782,50 | 991,20 | 992,80 |
| **9,7** | | | | | 346,60 | 785,30 | 991,80 | 1003,40 |

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| V | DN 65 | DN 80 | DN 100 | DN 125 | DN 150 | DN 200 | DN 250 | DN 300 |
|---|---|---|---|---|---|---|---|---|
| **9,8** | | | | | 350,30 | 788,80 | 992,60 | 1014,00 |
| **9,9** | | | | | 354,40 | 792,30 | 993,00 | 1024,80 |
| **10,0** | | | | | **357,5** | **795,1** | **994,0** | **1036,6** |
| **10,1** | | | | | 360,50 | | 995,60 | 1048,50 |
| **10,2** | | | | | 364,00 | | 996,80 | 1061,80 |
| **10,3** | | | | | 366,50 | | 997,60 | 1076,20 |
| **10,4** | | | | | 369,40 | | 998,20 | 1090,40 |
| **10,5** | | | | | 371,80 | | 999,80 | 1104,60 |
| **10,6** | | | | | 374,50 | | 1000,00 | 1118,60 |
| **10,7** | | | | | 376,50 | | 1001,60 | 1132,80 |
| **10,8** | | | | | 379,10 | | 1003,80 | 1145,80 |
| **10,9** | | | | | 381,40 | | 1006,80 | 1157,80 |
| **11,0** | | | | | **383,6** | | **1010,9** | **1168,7** |
| **11,1** | | | | | 385,80 | | 1016,20 | 1177,80 |
| **11,2** | | | | | 388,40 | | 1022,40 | 1186,20 |
| **11,3** | | | | | 390,50 | | 1029,60 | 1193,60 |
| **11,4** | | | | | 392,70 | | 1037,60 | 1199,80 |
| **11,5** | | | | | 394,90 | | 1044,80 | 1206,00 |
| **11,6** | | | | | 396,90 | | 1053,90 | 1211,70 |
| **11,7** | | | | | 399,50 | | 1062,80 | 1216,60 |
| **11,8** | | | | | 401,40 | | 1071,80 | 1221,80 |
| **11,9** | | | | | 403,60 | | 1079,80 | 1226,80 |
| **12,0** | | | | | **405,8** | | **1087,8** | **1232,2** |
| **12,1** | | | | | | | | 1237,70 |
| **12,2** | | | | | | | | 1242,20 |
| **12,3** | | | | | | | | 1247,00 |
| **12,4** | | | | | | | | 1251,60 |
| **12,5** | | | | | | | | 1255,50 |
| **12,6** | | | | | | | | 1259,70 |
| **12,7** | | | | | | | | 1264,00 |
| **12,8** | | | | | | | | 1267,80 |
| **12,9** | | | | | | | | 1271,80 |
| **13,0** | | | | | | | | **1276,2** |

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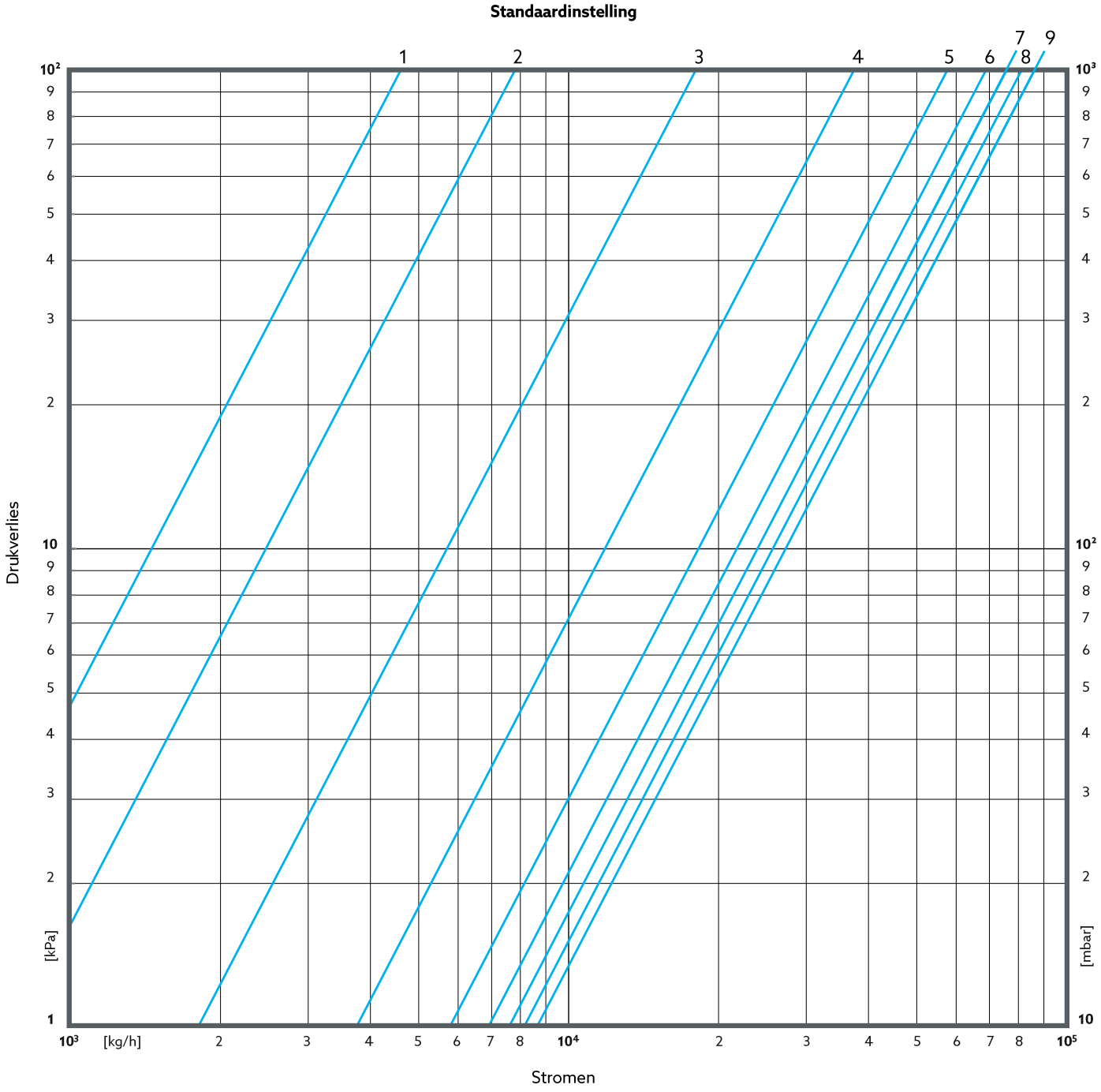
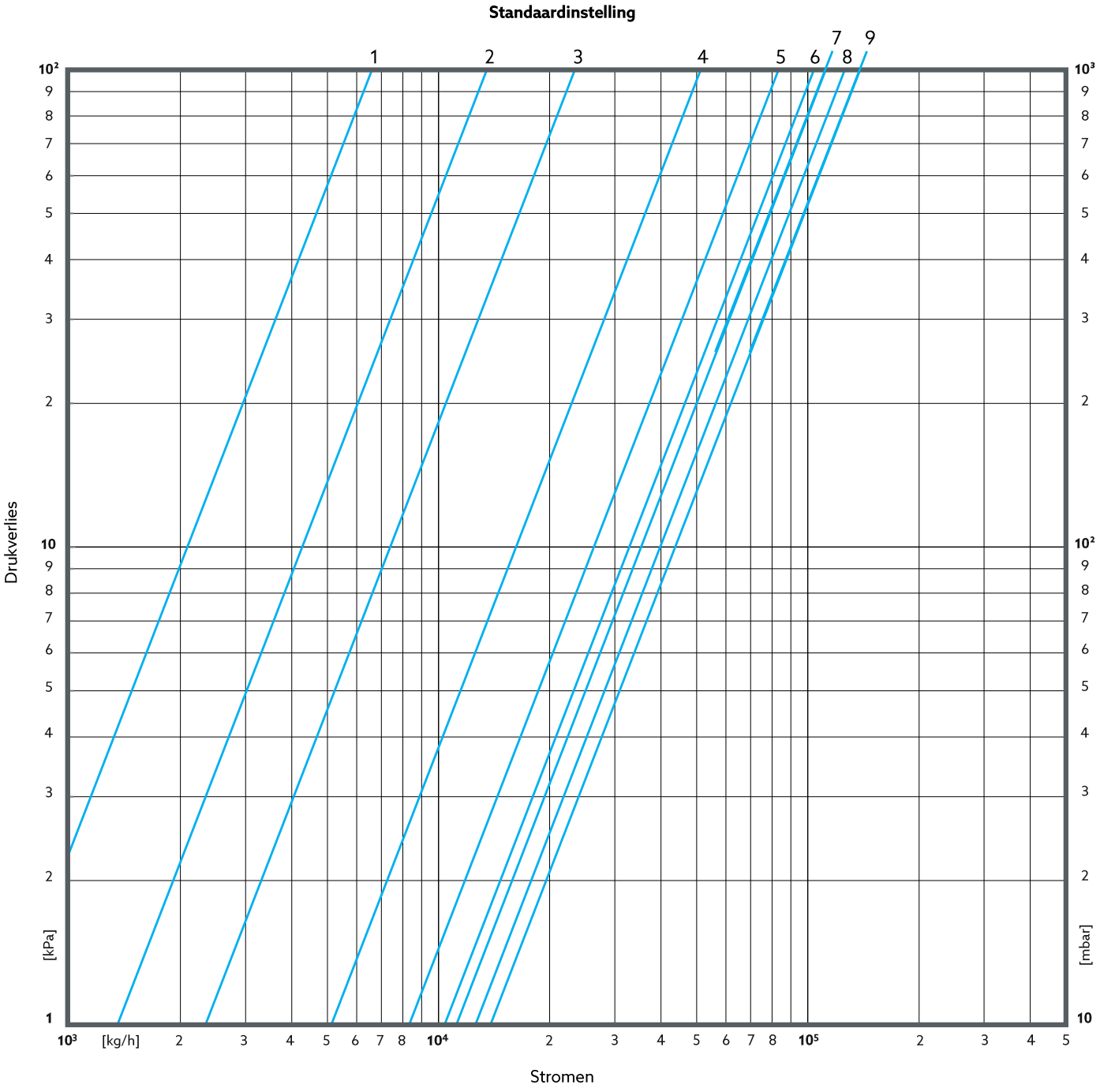
# Stroomdiagrammen

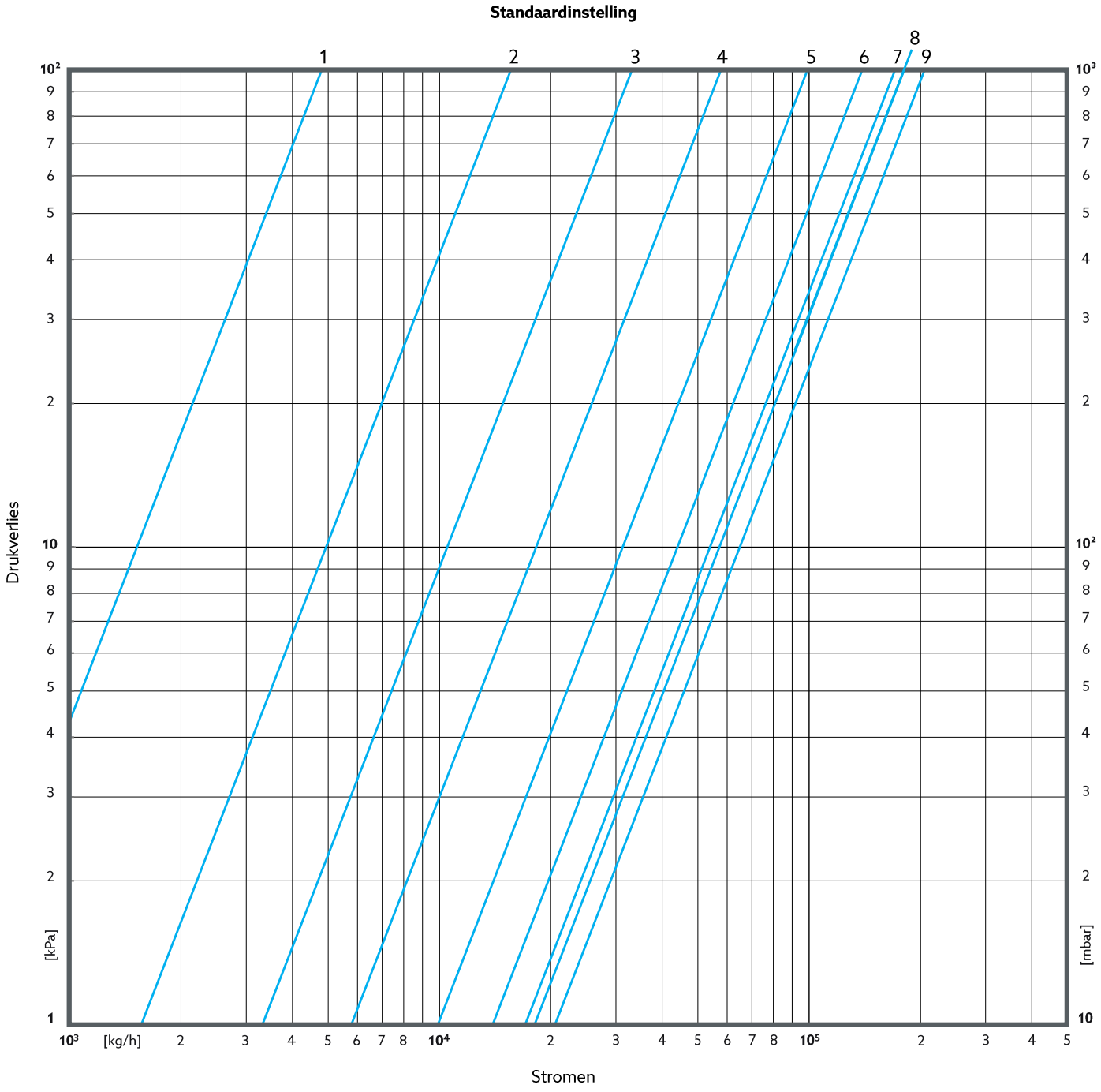
## DN 65



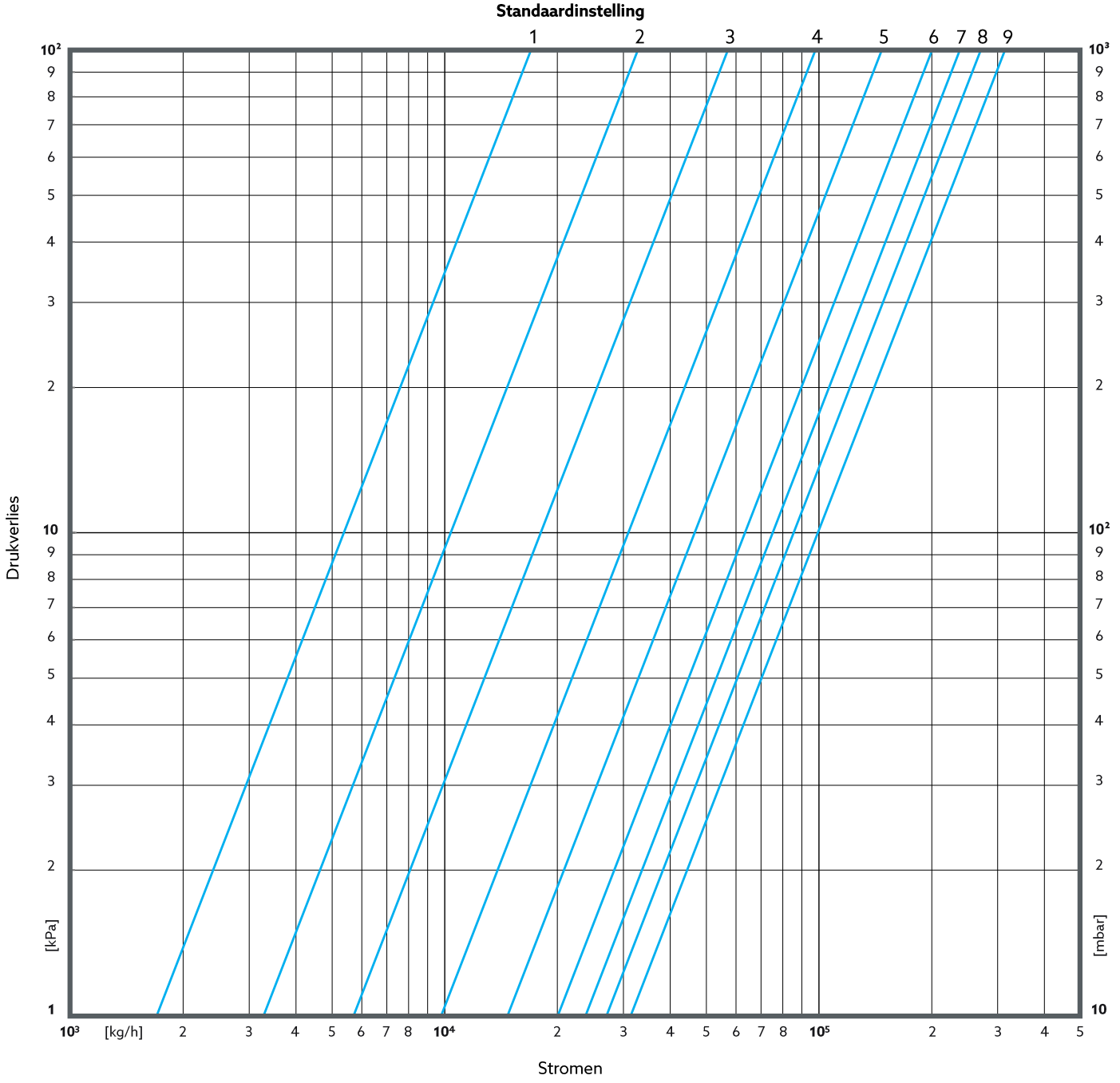
## DN 80


Standaardinstelling
1
2
3
4
5
6
7
8
9
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen

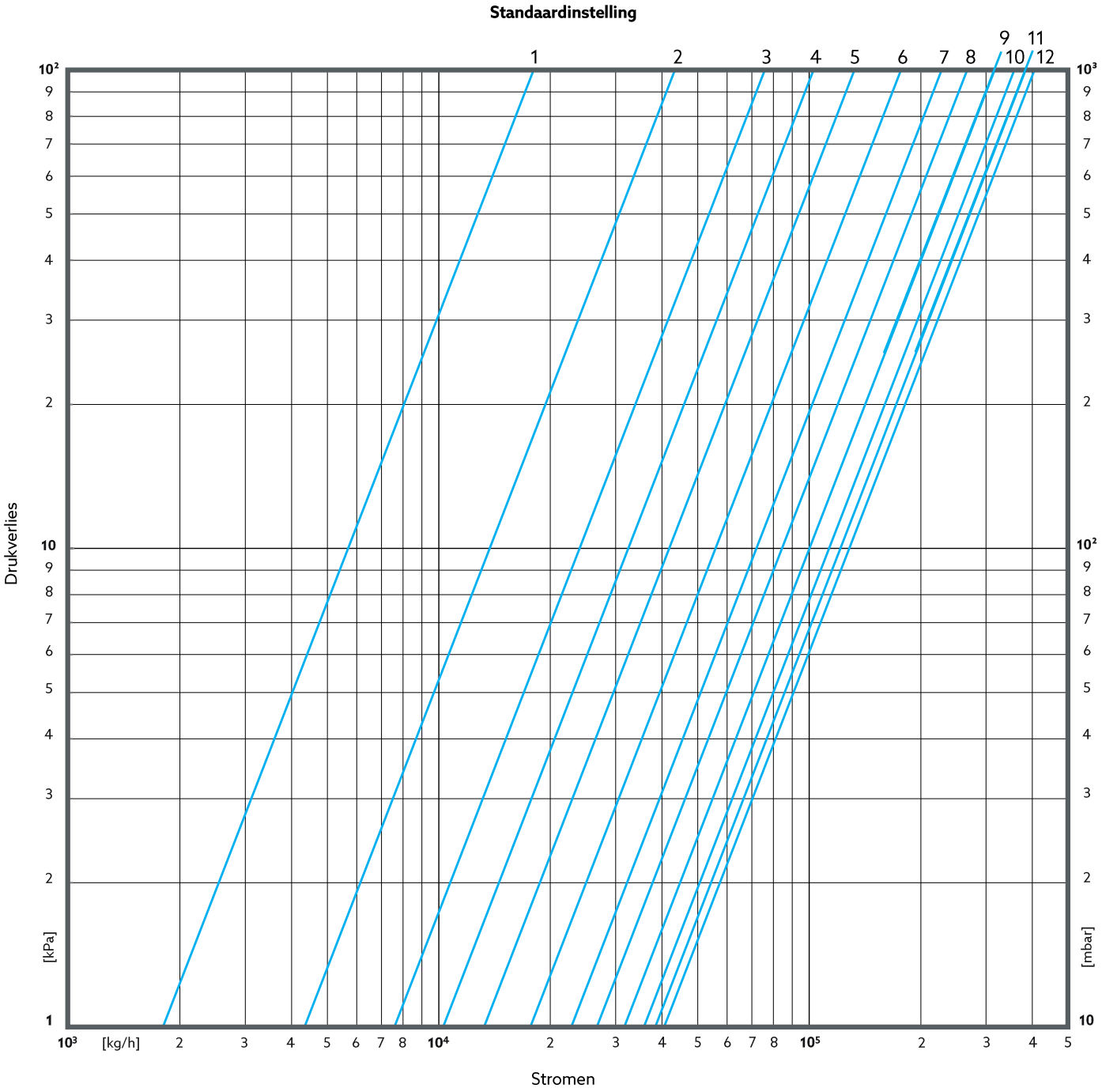
## DN 100


Standaardinstelling
1
2
3
4
5
6
7
8
9
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen

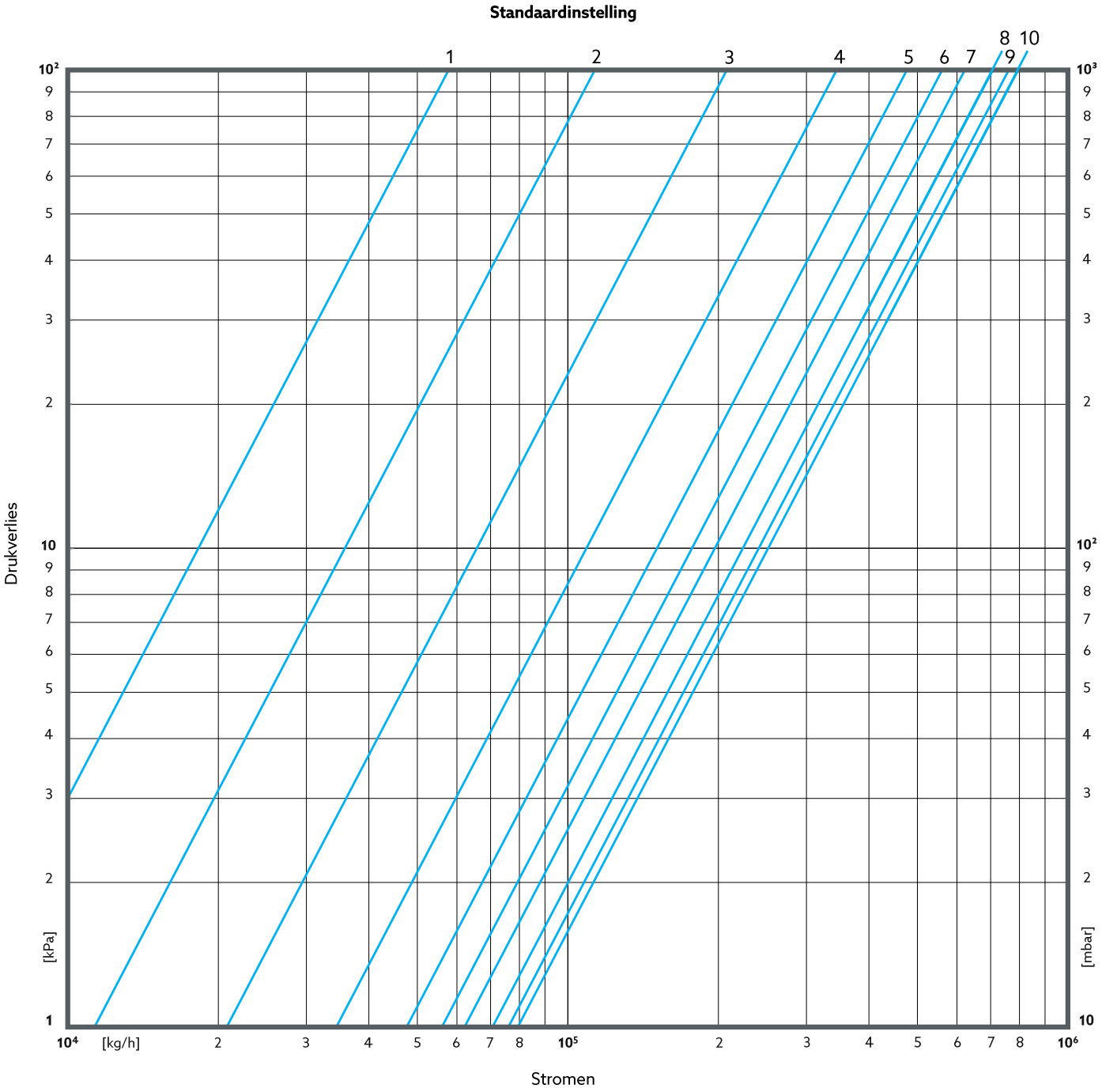
## DN 125


Standaardinstelling
1
2
3
4
5
6
7
8
9
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen

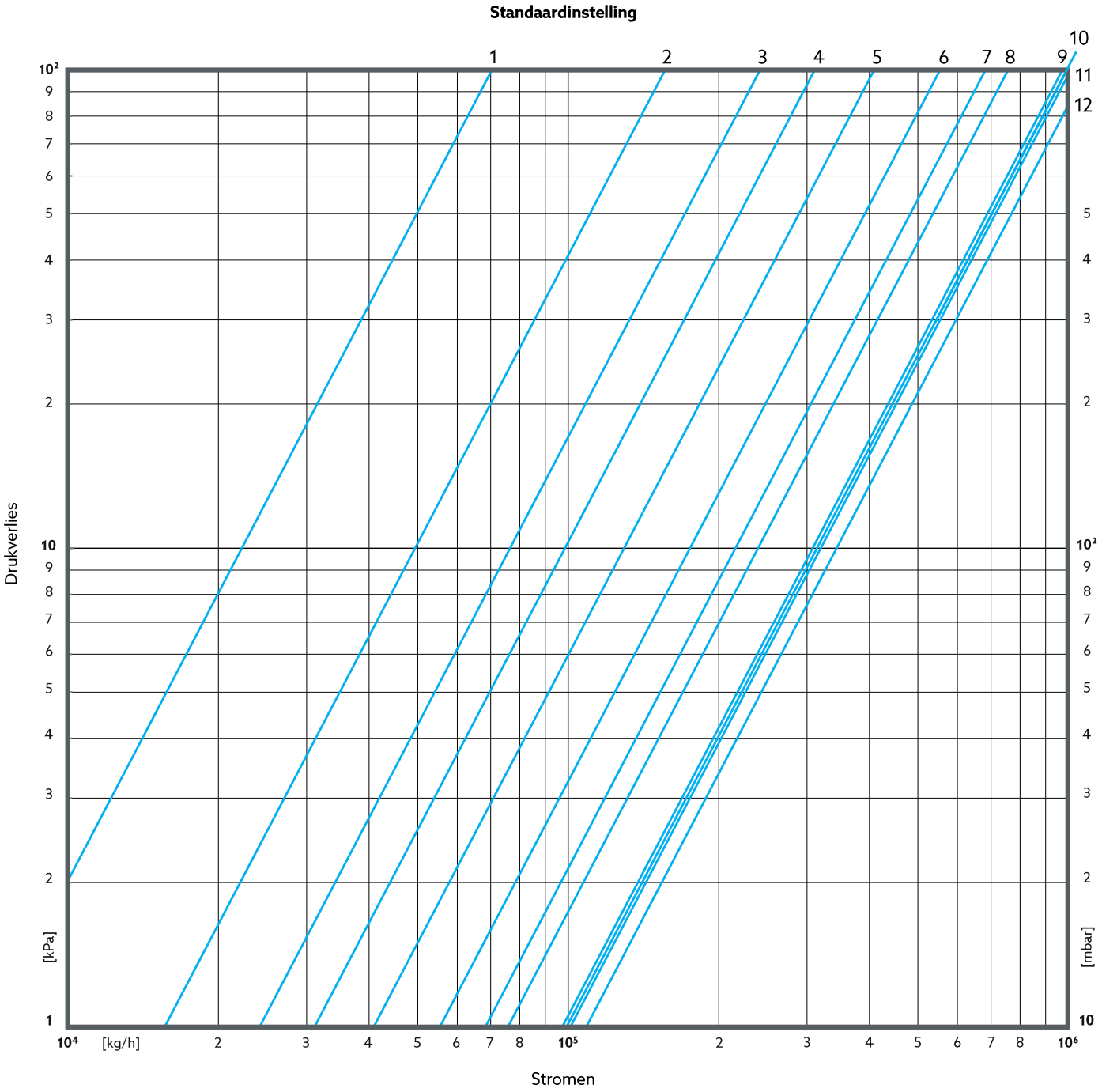
## DN 150


Standaardinstelling
1
2
3
4
5
6
7
8
9
10
11
12
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen

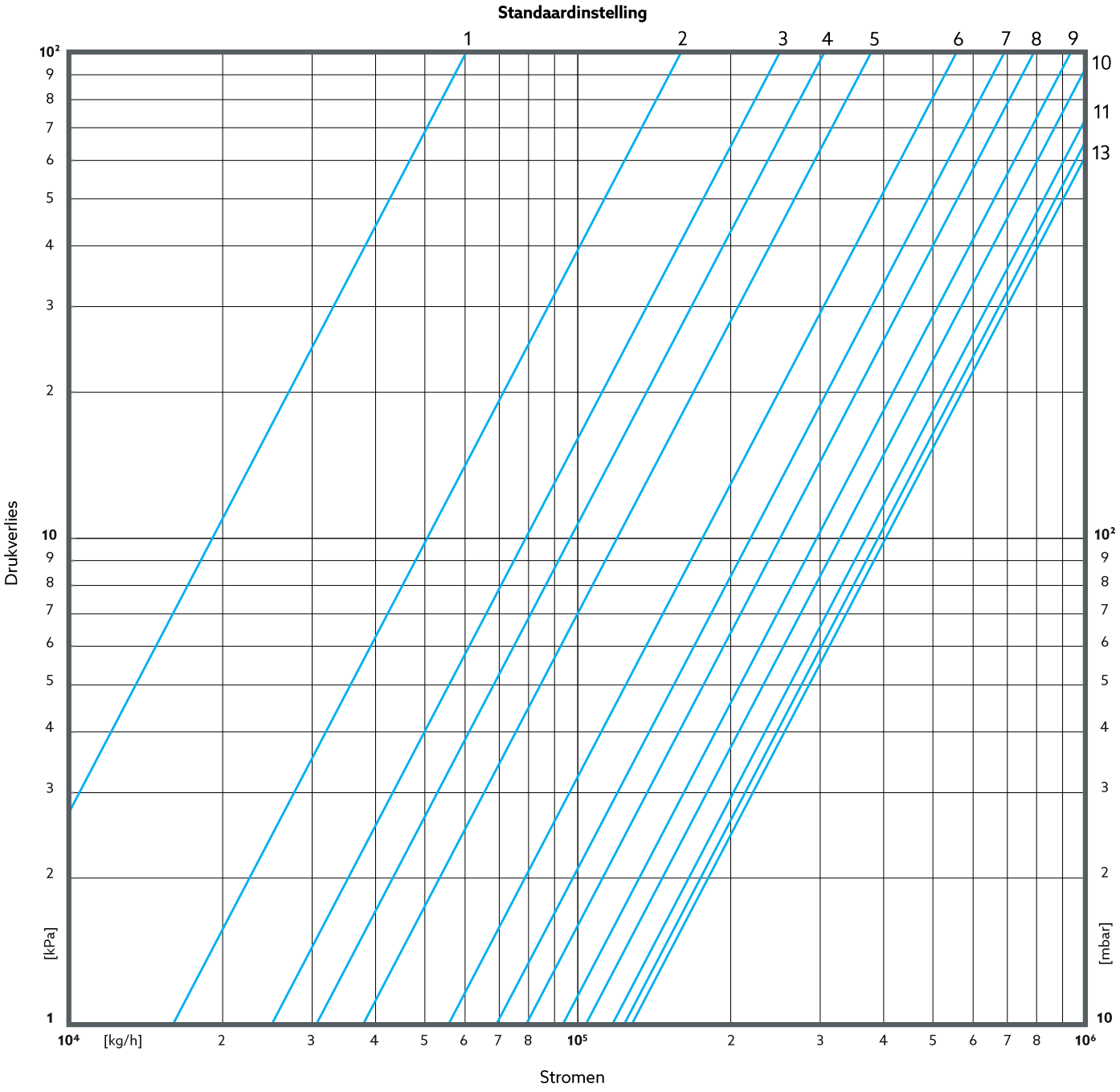
## DN 200


Standaardinstelling
1
2
3
4
5
6
7
8
9
10
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen
10²
10³
10⁴
10⁵
10⁶

## DN 250


Standaardinstelling
1
2
3
4
5
6
7
8
9
10
11
12
Drukverlies
[kPa]
[mbar]
[kg/h]
Stromen

## DN 300

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