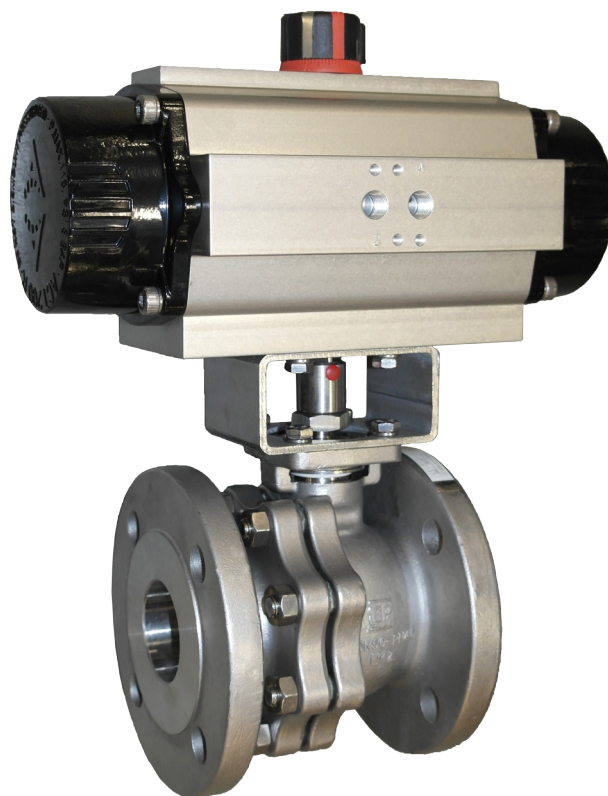
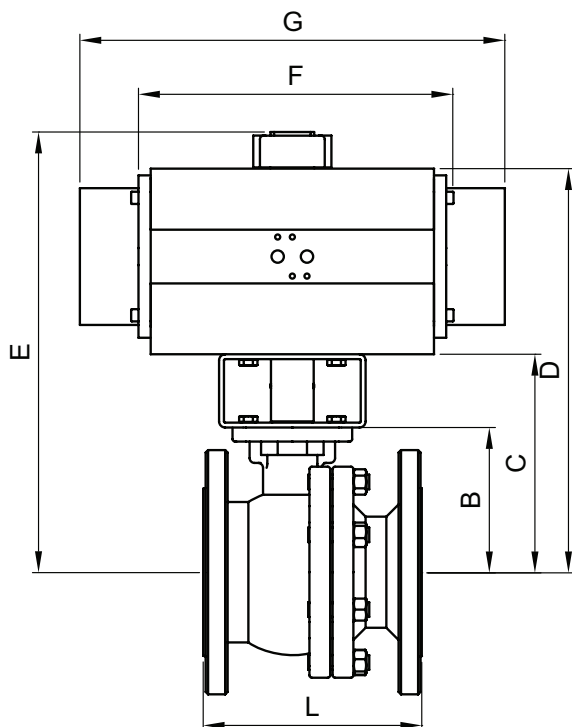


**FIGUUR:**
**ADA:** Pneumatische bediening, dubbelwerkend

**ASR:** Pneumatische bediening, enkelwerkend

**ASRO:** Pneumatische bediening, enkelwerkend, normaal open


| DN  | A   | L   | B   | ADA |     |     |     |     |      | ASR   |     |     |     |     |       |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|-----|-------|
|     |     |     |     | ADA | C   | D   | E   | F   | Kg   | ASR   | C   | D   | E   | G   | Kg    |
| 65  | 72  | 170 | 104 | 130 | 154 | 271 | 301 | 196 | 19,6 | 200   | 164 | 299 | 329 | 299 | 23,0  |
| 80  | 73  | 180 | 119 | 200 | 179 | 314 | 344 | 225 | 27,5 | 300   | 179 | 331 | 361 | 349 | 32,4  |
| 100 | 83  | 190 | 144 | 200 | 204 | 339 | 369 | 225 | 36,5 | 500   | 224 | 393 | 423 | 397 | 46,1  |
| 125 | 120 | 325 | 184 | 300 | 264 | 416 | 446 | 273 | 64,1 | 850   | 264 | 455 | 485 | 473 | 78,3  |
| 150 | 135 | 350 | 203 | 850 | 283 | 474 | 504 | 372 | 94,7 | 1.200 | 283 | 502 | 532 | 560 | 111,4 |

**AFMETINGEN:** (mm.)

De pneumatische bediening is berekend voor een stuurdruk van 6 bar, met een veiligheidsfactor van 30% en een maximale verschildruk van 40 bar.

**TOEBEHOREN:**

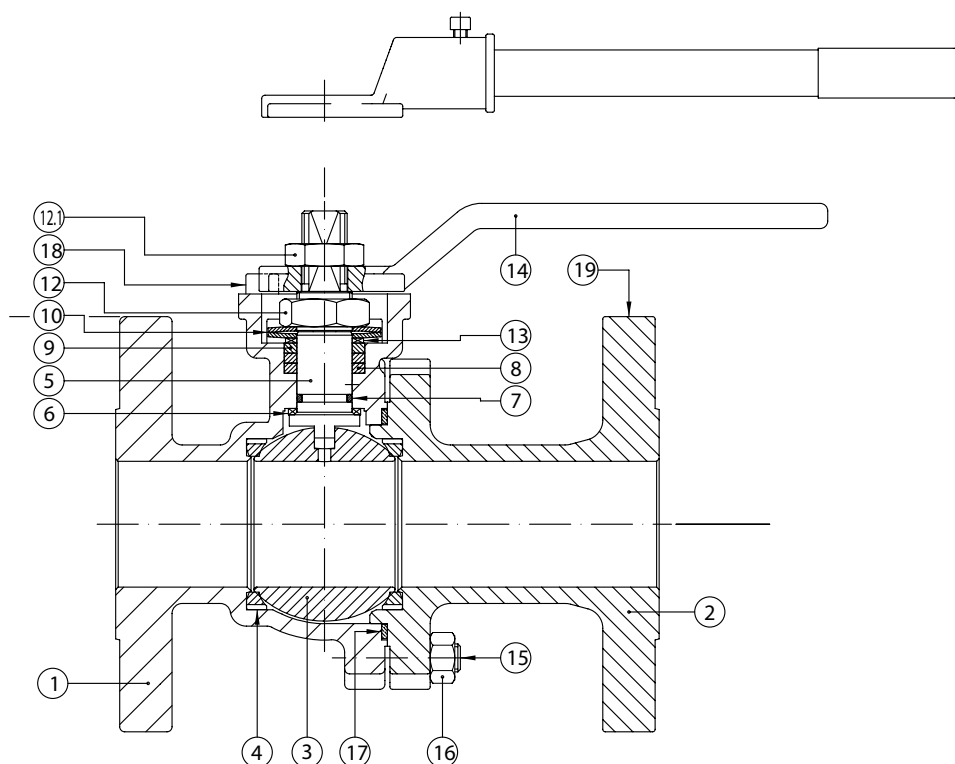
Magneetventielen, eindeloopschakelaars, noodhandbediening, pneumatische of elektro-pneumatische klepstandsteller.

**ALGEMENE KENMERKEN:**

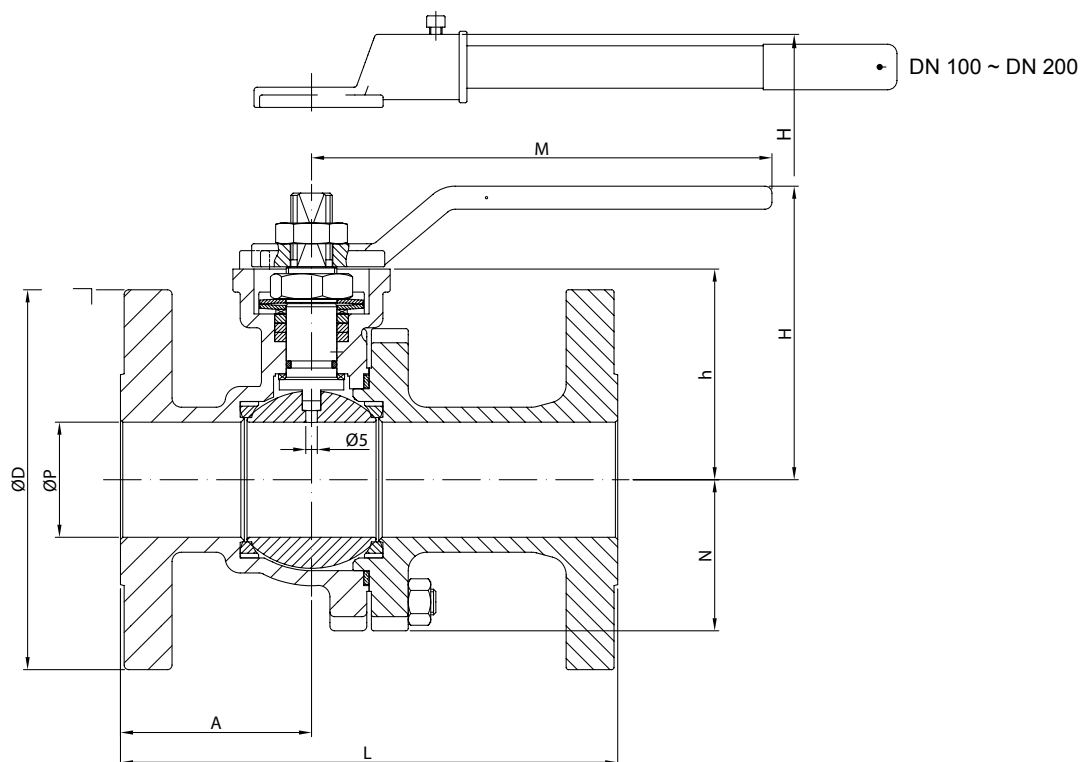
- Tweedelig huis - vlottende kogel - volle doorlaat - niet-uitdrukbaar spindel
- Anti-static device volgens BS 5351, ISO 7121 en NF E29-470
- Inbouwlengte volgens DIN 3202 F18
- Drukvereffeningsboring (standaard= 5 mm) in de bovenzijde van de kogel voorkomt overdruk in de ruimte tussen de kogel en het huis
- Alle afsluiters voldoen aan de fugitive emissions volgens ISO 15848 - 1:2006
- Fire safe volgens ISO 10497:2004
- Vastzetbare hendel



| ONTWERP                |                              |
|------------------------|------------------------------|
| Kogelkraan             | EN 1983, ISO 17292           |
| Huis                   | EN 12516                     |
| Laagdikte              | ISO 17292                    |
| Flenzen                | EN 1092-1                    |
| Inbouwlengte           | EN 558-1 Series 27           |
| Opbouwflens            | ISO 5211, DIN 3337, EN 15081 |
| Afwerking casting      | MSS SP 55                    |
| Markering              | EN 19, CE-PED                |
| TESTEN EN CERTIFICATEN |                              |
| Kwaliteit              | ISO 9001, CE-PED             |
| Fire Safe certificaten | ISO 10497: 2004              |
| Druktest               | ISO 17292, EN 12266          |
| Andere                 | ISO 14001, ATEX              |



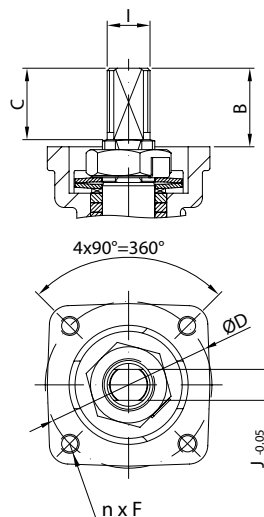
| Pos. | Omschrijving             | Materialen                            |               |
|------|--------------------------|---------------------------------------|---------------|
|      |                          | 254 AITFM                             | 254 IITFM     |
| 1    | Huis                     | 1.0619                                | 1.4408        |
| 2    | Aansluitflens            | 1.0619                                | 1.4408        |
| 3    | Kogel                    | A 351 Gr. CF8M (DN15~25 A 479 Tp.316) |               |
| 4    | Zitting                  | PTFE                                  |               |
| 5    | Spindel                  | A 479 Tp. 316                         |               |
| 6    | Glijring                 | PTFE + 25% glasvezel                  |               |
| 7    | O-ring                   | FKM                                   |               |
| 8    | Pakking                  | Gra iet                               |               |
| 9    | Pakkingdrukker           | AISI 303                              |               |
| 10   | Schotelveer              | Inconel - 718                         |               |
| 12   | Spindelmoer              | AISI 303                              |               |
| 12.1 | Moer                     | AISI 303                              |               |
| 13   | Rondel                   | PTFE + 25% glasvezel                  |               |
| 14   | Hendel                   | A 216 Gr. WCB                         |               |
| 15   | Bout                     | A 193 Gr. B7M                         | A 193 Gr. B8M |
| 16   | Moer                     | A 194 Gr. 2HM                         | A 194 Gr. 8M  |
| 17   | Spiraalgewonden dichting | AISI 316L + PTFE + grafiet            |               |
| 18   | Bout                     | A2                                    |               |
| 19   | Identificatieplaat       | Roestvast staal                       |               |

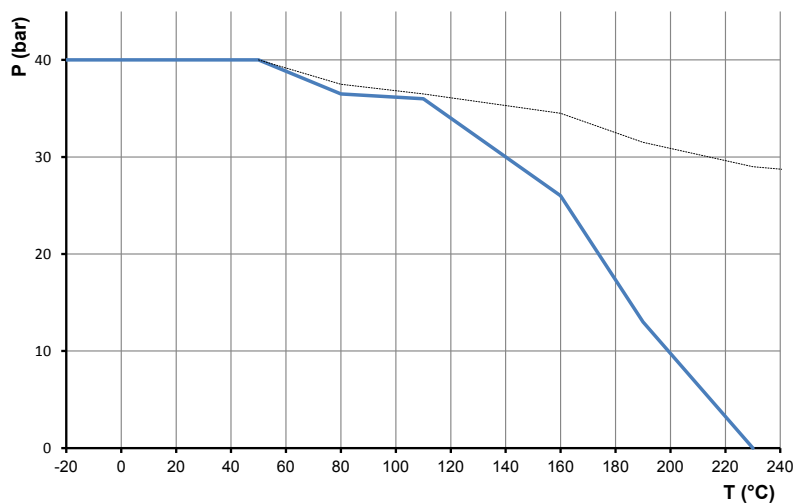
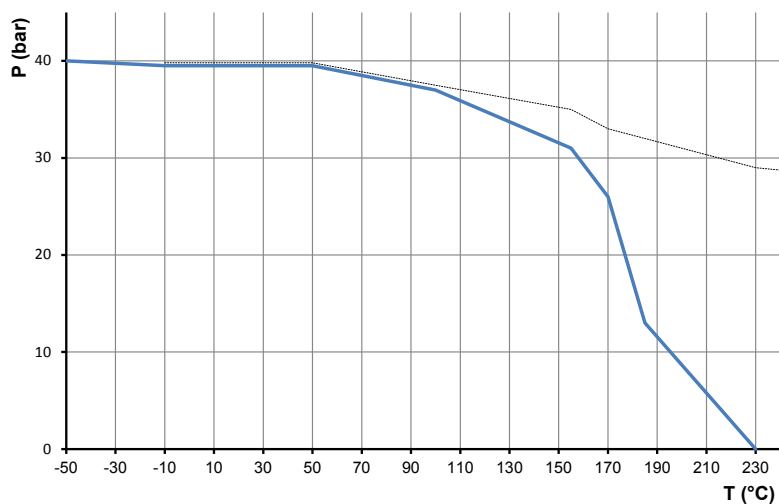

**AFMETINGEN:** (in mm)

| DN  | Ø P | L   | L1  | Ø Q | Ø R | n x Ø S | Ø T | X | Y  | h     | N   | H     | M   | Kg   |
|-----|-----|-----|-----|-----|-----|---------|-----|---|----|-------|-----|-------|-----|------|
| 65  | 65  | 170 | 72  | 122 | 145 | 8 x 18  | 185 | 2 | 20 | 104,0 | 78  | 140,0 | 350 | 14,8 |
| 80  | 78  | 180 | 73  | 138 | 160 | 8 x 18  | 200 | 2 | 22 | 118,5 | 87  | 190,0 | 450 | 20,6 |
| 100 | 100 | 190 | 83  | 158 | 190 | 8 x 22  | 235 | 2 | 22 | 144,0 | 108 | 192,5 | 466 | 29,2 |
| 125 | 125 | 325 | 120 | 188 | 220 | 8 x 26  | 270 | 2 | 24 | 184,0 | 134 | 240,0 | 775 | 53,6 |
| 150 | 151 | 350 | 135 | 212 | 250 | 8 x 26  | 300 | 2 | 26 | 203,0 | 152 | 259,0 | 775 | 74,7 |

**OPBOUWFLENS:** (in mm)

| DN  | ISO | B  | C    | Ø D | n x F   | I   | J  |
|-----|-----|----|------|-----|---------|-----|----|
| 65  | F07 | 34 | 33,0 | 70  | 4 x M8  | M22 | 15 |
| 80  | F10 | 34 | 33,0 | 102 | 4 x M10 | M22 | 15 |
| 100 | F10 | 45 | 43,5 | 102 | 4 x M10 | M28 | 19 |
| 125 | F12 | 56 | 54,5 | 125 | 4 x M12 | M36 | 24 |
| 150 | F12 | 56 | 54,5 | 125 | 4 x M12 | M36 | 24 |



**DRUK-TEMPERATUURDIAGRAMMA:**
**AIT**

**IIT**

**DRAAIMOMENT:** (in Nm)

| DN  | PN 40        |
|-----|--------------|
|     | Verschildruk |
|     | 40 bar       |
| 65  | 74           |
| 80  | 118          |
| 100 | 136          |
| 125 | 204          |
| 150 | 408          |

**Kv-WAARDE:** (in m³/h)

| DN  | Kv-waarde |
|-----|-----------|
| 65  | 550       |
| 80  | 1.000     |
| 100 | 1.650     |
| 125 | 3.000     |
| 150 | 4.200     |

### ALGEMENE KENMERKEN:

- Rack & pinion pneumaat
- Verdraaiing  $90^\circ \pm 5^\circ$
- Slagbegrenzerregeling  $\pm 5^\circ$
- Werktemperatuur:  $-30^\circ\text{C} \sim 100^\circ\text{C}$
- Stuurdruk: 3 ~ 8 bar
- Koppeling volgens ISO 5211 en DIN 3337 (achthoekige insert)
- Opbouw van magneetventielen volgens Namur Std.
- Opbouw van naderingschakelaars volgens Namur

### FIGUUR:

**ADA:** dubbelwerkend

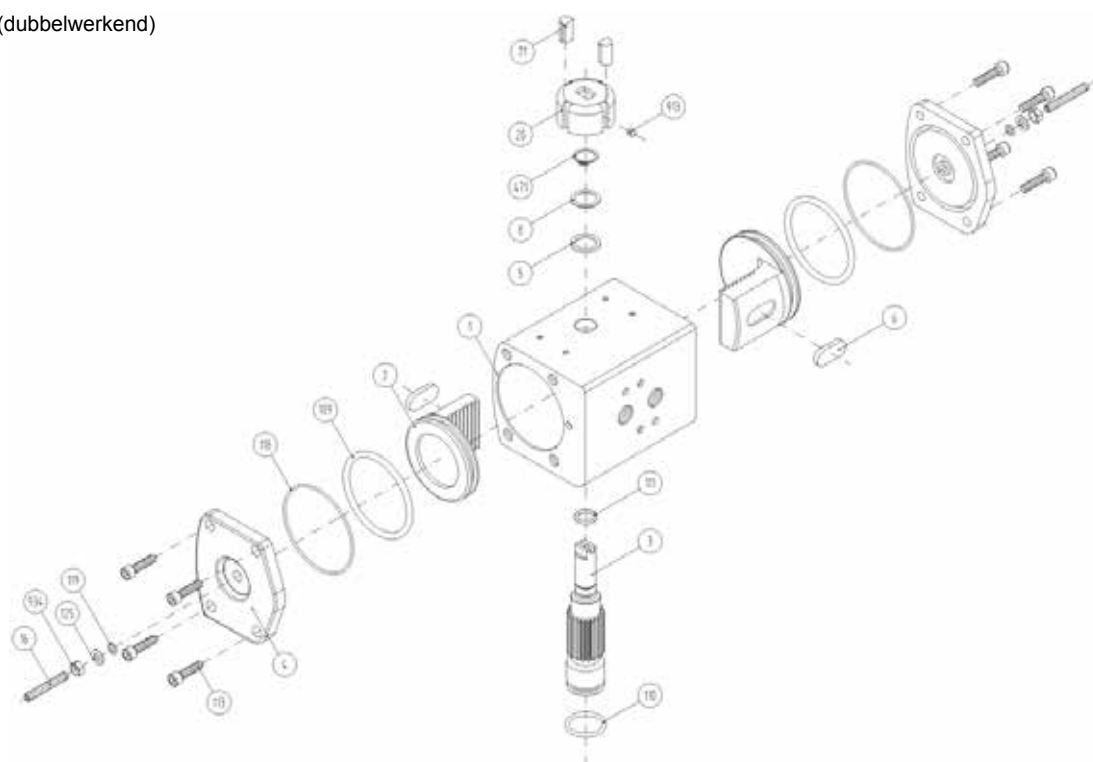
**ASR:** enkelwerkend, normaal gesloten

**ASRO:** enkelwerkend, normaal open



| ONTWERP                     |                                |
|-----------------------------|--------------------------------|
| Opbouw van magneetventielen | NAMUR Std.                     |
| Opbouw van toebehoren       | NAMUR VDI, NAMUR VDE 3845 Std. |
| Aansluiting                 | ISO 5211, DIN 3337             |
| TESTEN EN CERTIFICATEN      |                                |
| Veiligheid                  | ATEX II 2 GD, SIL3             |
| Kwaliteit                   | CE/PED, ISO9001                |

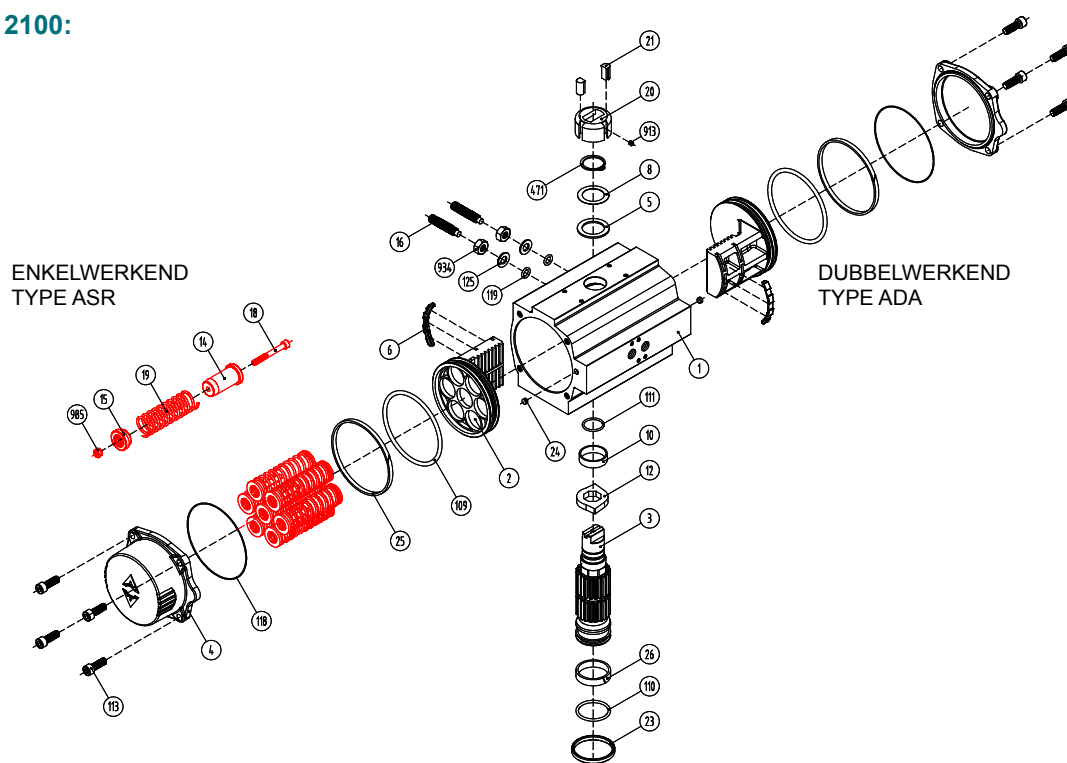
**TYPE 10:** (dubbelwerkend)



#### MATERIALEN:

| Item | Omschrijving        | Materiaal                   | Item | Omschrijving     | Materiaal      |
|------|---------------------|-----------------------------|------|------------------|----------------|
| 1    | Huis                | Aluminium hard geanodiseerd | 109  | O-Ring           | NBR            |
| 2    | Zuiger              | Aluminium                   | 110  | O-Ring           | NBR            |
| 3    | As                  | Vernikkeld staal            | 111  | O-Ring           | NBR            |
| 4    | Eindkap             | Aluminium Epoxy gecoat      | 113  | Bout             | Roestvrijstaal |
| 5    | Veerrondel          | Polyamide PA 6.6            | 118  | O-Ring           | NBR            |
| 6    | Geleidingsring      | Polyamide PA 6.6 + 30% G.F. | 119  | O-Ring           | NBR            |
| 8    | Veerrondel          | Roestvrijstaal              | 125  | Rondel           | Roestvrijstaal |
| 16   | Instelbout          | Roestvrijstaal              | 913  | Bout             | Roestvrijstaal |
| 20   | Visuele standmelder | Polyamide                   | 471  | Externe circlips | Roestvrijstaal |
| 21   | Nok                 | Polyamide                   | 934  | Moer             | Roestvrijstaal |

### TYPE 20 - 2100:



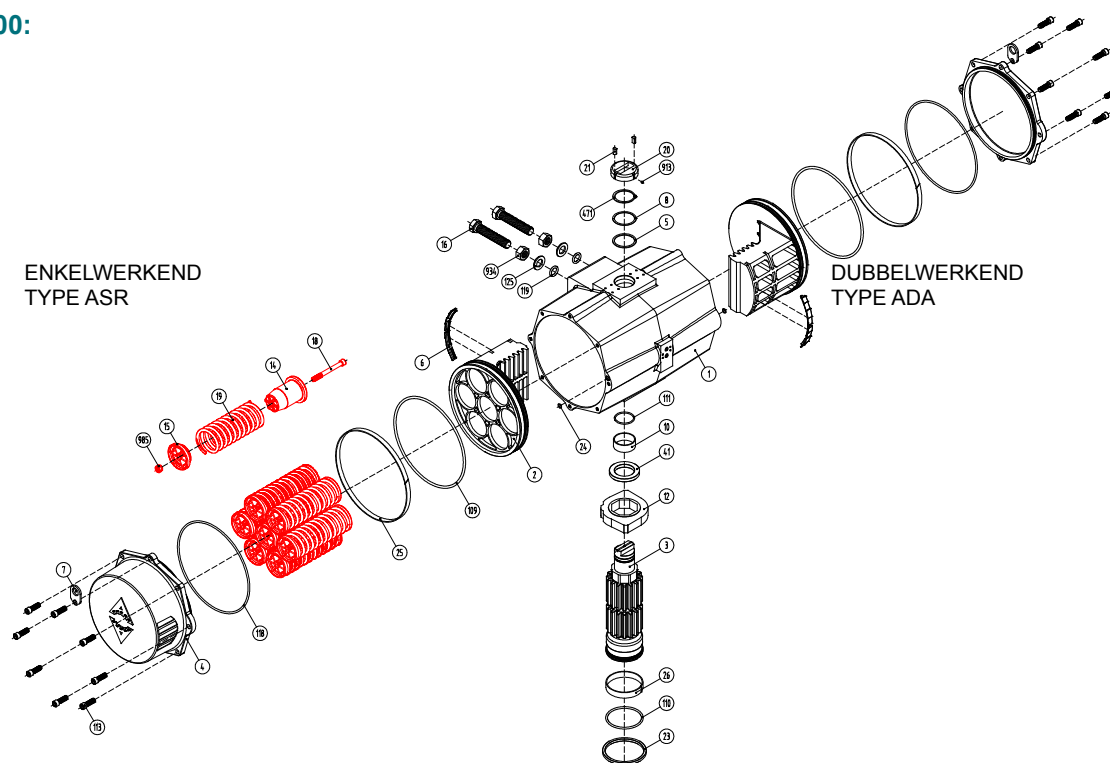
### MATERIALEN:

| Item | Omschrijving        | Materiaal                   |
|------|---------------------|-----------------------------|
| 1    | Huis                | Aluminium hard geanodiseerd |
| 2    | Zuiger              | Aluminium                   |
| 3    | As                  | Vernikkeld staal            |
| 4    | Eindkap             | Aluminium Epoxy gecoat      |
| 5    | Veerrondel          | Polyamide PA 6.6            |
| 6    | Geleidingsring      | Polyamide PA 6.6 + 30% G.F. |
| 8    | Veerrondel          | Roestvrijstaal              |
| 10   | Lagerring           | Hostalen RCH 1000           |
| 12   | Stop                | ASTM A 105                  |
| 14   | (*) Veerbout        | Polyamide PA 6.6            |
| 15   | (*) Veerbout        | Polyamide PA 6.6            |
| 16   | Instelbout          | Roestvrijstaal              |
| 18   | (*) Bout            | Roestvrijstaal              |
| 19   | (*) Veer            | DIN 2076 -D-5.6             |
| 20   | Visuele standmelder | Polyamide                   |
| 21   | Nok                 | Polyamide                   |

| Item | Omschrijving     | Materiaal         |
|------|------------------|-------------------|
| 23   | Centreerring     | Vernikkeld staal  |
| 24   | Stop             | NBR               |
| 25   | Geleidingsring   | Resin             |
| 26   | Lagerring        | Hostalen RCH 1000 |
| 109  | O-Ring           | NBR               |
| 110  | O-Ring           | NBR               |
| 111  | O-Ring           | NBR               |
| 113  | Bout             | Roestvrijstaal    |
| 118  | O-Ring           | NBR               |
| 119  | O-Ring           | NBR               |
| 125  | Rondel           | Roestvrijstaal    |
| 913  | Bout             | Roestvrijstaal    |
| 471  | Externe circlips | Roestvrijstaal    |
| 934  | Moer             | Roestvrijstaal    |
| 985  | (*) Moer         | Roestvrijstaal    |
|      |                  |                   |

\* Enkel voor ASR

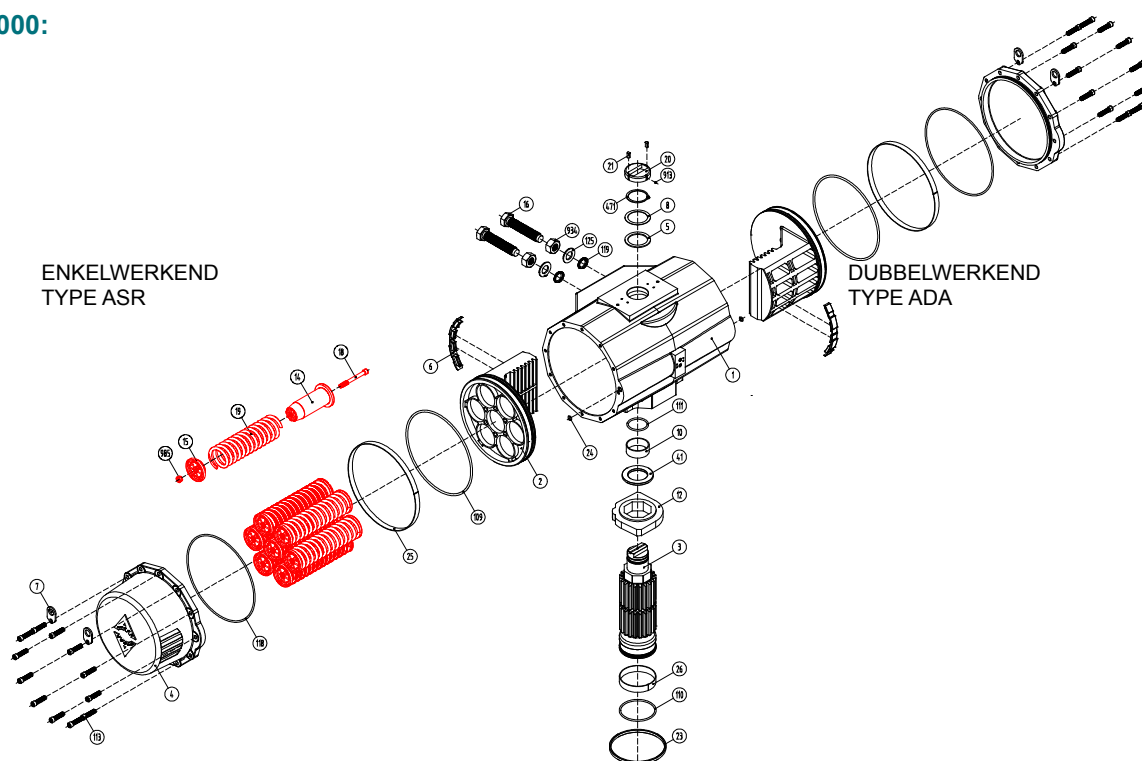
\*\* Voor type 20: Polyamide PA 6.6 + 30% G.F.

**TYPE 2500:**

**MATERIALEN:**

| Item | Omschrijving        | Materiaal                   | Item | Omschrijving     | Materiaal         |
|------|---------------------|-----------------------------|------|------------------|-------------------|
| 1    | Huis                | Aluminium hard geanodiseerd | 23   | Centreerring     | Vernikkeld staal  |
| 2    | Zuiger              | Aluminium                   | 24   | Stop             | NBR               |
| 3    | As                  | Vernikkeld staal            | 25   | Geleidingsring   | Resin             |
| 4    | Eindkap             | Aluminium Epoxy gecoat      | 26   | Lagerring        | Hostalen RCH 1000 |
| 5    | Veerrondel          | Polyamide PA 6.6            | 109  | O-Ring           | NBR               |
| 6    | Geleidingsring      | Polyamide PA 6.6 + 30% G.F. | 110  | O-Ring           | NBR               |
| 8    | Veerrondel          | Roestvrijstaal              | 111  | O-Ring           | NBR               |
| 10   | Lagerring           | Hostalen RCH 1000           | 113  | Bout             | Roestvrijstaal    |
| 12   | Stop                | ASTM A 105                  | 118  | O-Ring           | NBR               |
| 14   | (*) Veerbout        | Polyamide PA 6.6            | 119  | O-Ring           | NBR               |
| 15   | (*) Veerbout        | Polyamide PA 6.6            | 125  | Rondel           | Roestvrijstaal    |
| 16   | Instelbout          | Roestvrijstaal              | 913  | Bout             | Roestvrijstaal    |
| 18   | (*) Bout            | Roestvrijstaal              | 471  | Externe circlips | Roestvrijstaal    |
| 19   | (*) Veer            | DIN 2076 -D-5.6             | 934  | Moer             | Roestvrijstaal    |
| 20   | Visuele standmelder | Polyamide                   | 985  | (*) Moer         | Roestvrijstaal    |
| 21   | Nok                 | Polyamide                   |      |                  |                   |

\* Enkel voor ASR

\*\* Voor type 20: Polyamide PA 6.6 + 30% G.F.

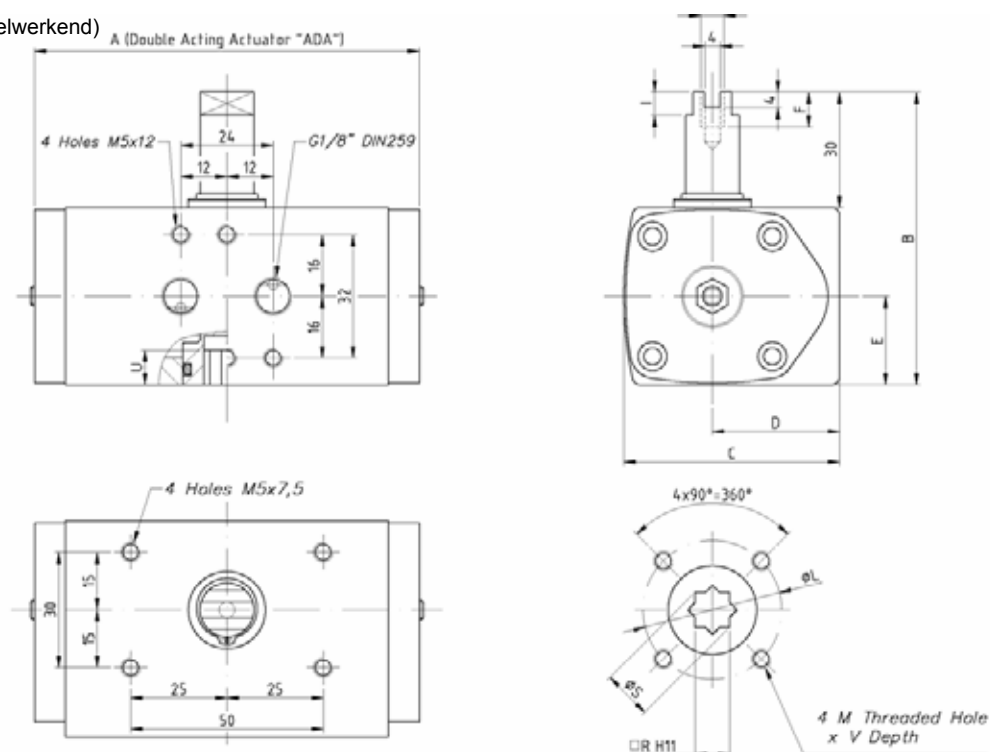
**TYPE 4000:**

**MATERIALEN:**

| Item | Omschrijving        | Materiaal                   | Item | Omschrijving     | Materiaal         |
|------|---------------------|-----------------------------|------|------------------|-------------------|
| 1    | Huis                | Aluminium hard geanodiseerd | 23   | Centreerring     | Vernikkeld staal  |
| 2    | Zuiger              | Aluminium                   | 24   | Stop             | NBR               |
| 3    | As                  | Vernikkeld staal            | 25   | Geleidingsring   | Resin             |
| 4    | Eindkap             | Aluminium Epoxy gecoat      | 26   | Lagerring        | Hostalen RCH 1000 |
| 5    | Veerrondel          | Polyamide PA 6.6            | 109  | O-Ring           | NBR               |
| 6    | Geleidingsring      | Polyamide PA 6.6 + 30% G.F. | 110  | O-Ring           | NBR               |
| 8    | Veerrondel          | Roestvrijstaal              | 111  | O-Ring           | NBR               |
| 10   | Lagerring           | Hostalen RCH 1000           | 113  | Bout             | Roestvrijstaal    |
| 12   | Stop                | ASTM A 105                  | 118  | O-Ring           | NBR               |
| 14   | (*) Veerbout        | Polyamide PA 6.6            | 119  | O-Ring           | NBR               |
| 15   | (*) Veerbout        | Polyamide PA 6.6            | 125  | Rondel           | Roestvrijstaal    |
| 16   | Instelbout          | Roestvrijstaal              | 913  | Bout             | Roestvrijstaal    |
| 18   | (*) Bout            | Roestvrijstaal              | 471  | Externe circlips | Roestvrijstaal    |
| 19   | (*) Veer            | DIN 2076 -D-5.6             | 934  | Moer             | Roestvrijstaal    |
| 20   | Visuele standmelder | Polyamide                   | 985  | (*) Moer         | Roestvrijstaal    |
| 21   | Nok                 | Polyamide                   |      |                  |                   |

\* Enkel voor ASR

\*\* Voor type 20: Polyamide PA 6.6 + 30% G.F.

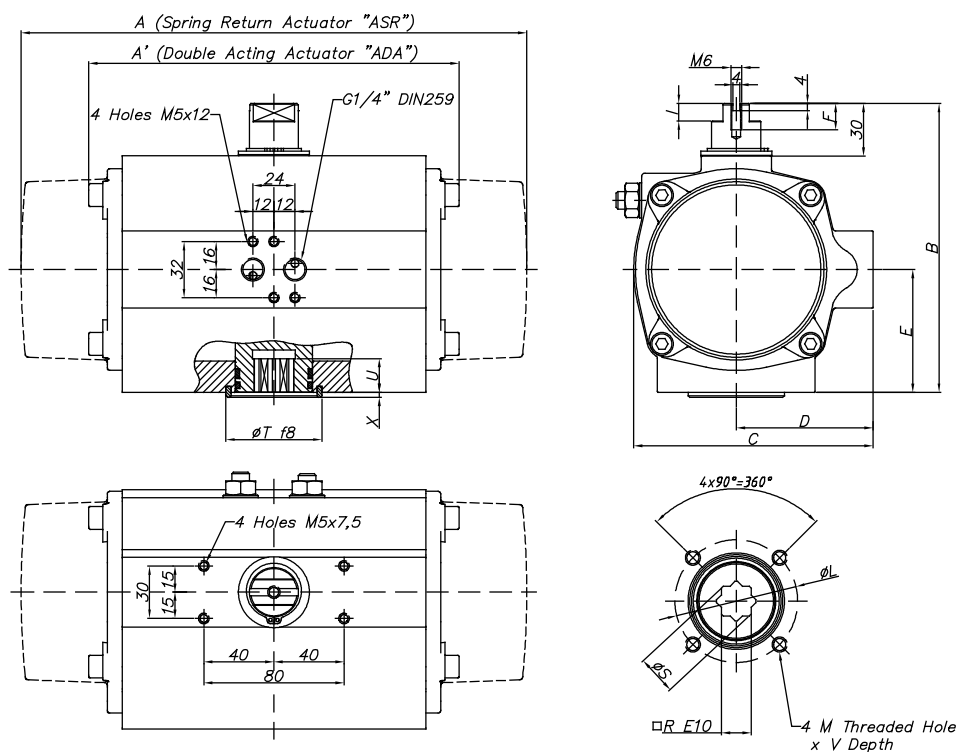
### TYPE 10: (dubbelwerkend)



### AFMETINGEN: (mm)

| TYPE | A   | B  | C  | D  | E  | F | I | R | ØS   | ISO 5211 | ØL | M x V | U  |
|------|-----|----|----|----|----|---|---|---|------|----------|----|-------|----|
| 10   | 100 | 76 | 56 | 33 | 23 | 9 | 6 | 9 | 12,5 | F03      | 36 | M5x8  | 10 |

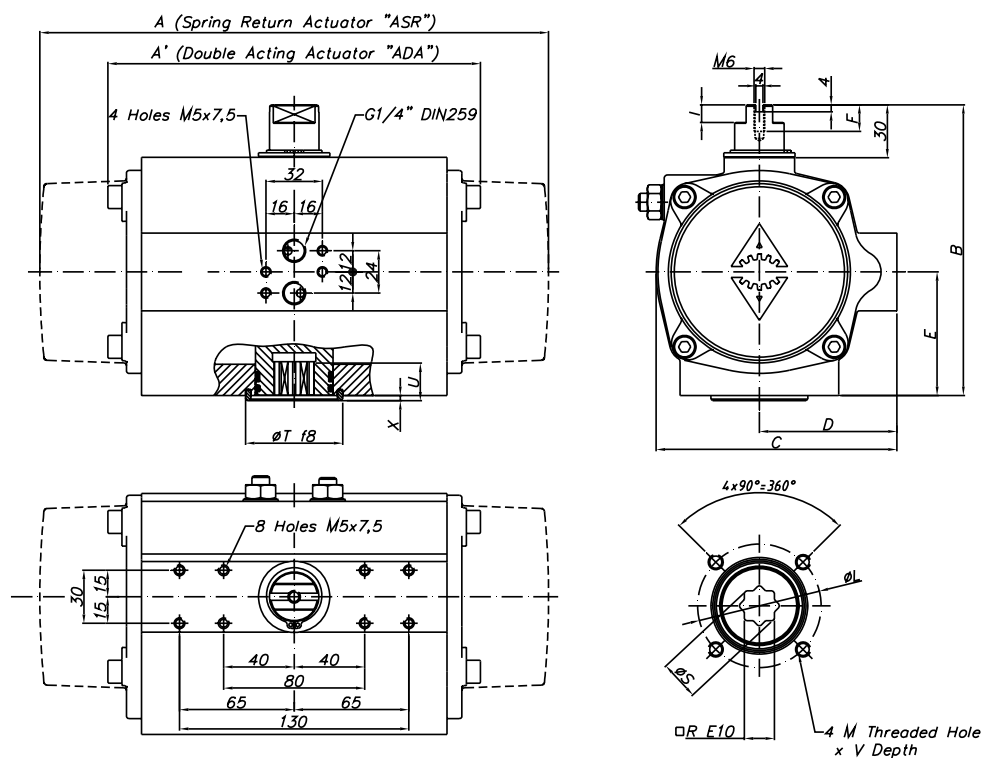
### TYPE 20-1750:



### AFMETINGEN: (mm)

| TYPE   | A     | A'  | B   | C     | D   | E   | F  | I  | R  | ØS   | ISO 5211 | ØL/ ØL1 | M x V  | ØT  | X | U  |
|--------|-------|-----|-----|-------|-----|-----|----|----|----|------|----------|---------|--------|-----|---|----|
| C20    | 163,0 | 145 | 96  | 76,0  | 48  | 34  | 9  | 6  | 14 | 18,1 | F04      | 42      | M5x10  | 35  | 3 | 12 |
| 20F05  | 163,0 | 145 | 96  | 76,0  | 48  | 34  | 9  | 6  | 14 | 18,1 | F05      | 50      | M6x10  | 35  | 3 | 12 |
| 20VK09 | 163,0 | 145 | 96  | 76,0  | 48  | 34  | 9  | 6  | 9  | 12,5 | F03      | 36      | M5x8   | 25  | 2 | 10 |
|        |       |     |     |       |     |     |    |    |    |      | F05      | 50      | M6x10  |     |   |    |
| 40     | 195,0 | 158 | 115 | 91,0  | 56  | 45  | 9  | 6  | 14 | 18,1 | F04      | 42      | M5x10  | 35  | 3 | 12 |
| 40F05  | 195,0 | 158 | 115 | 91,0  | 56  | 45  | 9  | 6  | 14 | 18,1 | F05      | 50      | M6x10  | 35  | 3 | 12 |
| 80     | 217,0 | 177 | 137 | 111,0 | 66  | 55  | 12 | 8  | 17 | 22,5 | F05      | 50      | M6x10  | 55  | 3 | 19 |
|        |       |     |     |       |     |     |    |    |    |      | F07      | 70      | M8x16  |     |   |    |
| 130    | 258,0 | 196 | 147 | 122,0 | 71  | 60  | 15 | 8  | 17 | 22,5 | F05      | 50      | M6x10  | 55  | 3 | 22 |
|        |       |     |     |       |     |     |    |    |    |      | F07      | 70      | M8x16  |     |   |    |
| 200    | 299,0 | 225 | 165 | 135,5 | 78  | 70  | 15 | 10 | 17 | 22,5 | F07      | 70      | M8x16  | 55  | 3 | 23 |
|        |       |     |     |       |     |     |    |    |    |      | F10      | 102     | M10x16 |     |   |    |
| 300    | 348,5 | 273 | 182 | 152,5 | 86  | 80  | 16 | 12 | 22 | 28,5 | F07      | 70      | M8x16  | 70  | 3 | 24 |
|        |       |     |     |       |     |     |    |    |    |      | F10      | 102     | M10x16 |     |   |    |
| 500    | 397,0 | 304 | 199 | 173,0 | 96  | 85  | 17 | 15 | 22 | 28,5 | F10      | 102     | M10x16 | 70  | 3 | 32 |
| 850    | 473,0 | 372 | 221 | 191,5 | 106 | 98  | 15 | 15 | 27 | 36,5 | F10      | 102     | M10x17 | 85  | 3 | 39 |
|        |       |     |     |       |     |     |    |    |    |      | F12      | 125     | M12x20 |     |   |    |
| 1200   | 560,0 | 439 | 249 | 212,5 | 116 | 114 | 16 | 15 | 36 | 48,5 | F10      | 102     | M10x17 | 100 | 4 | 48 |
|        |       |     |     |       |     |     |    |    |    |      | F14      | 140     | M16x26 |     |   |    |
| 1750   | 601,0 | 461 | 280 | 242,5 | 131 | 130 | 16 | 15 | 36 | 48,5 | F14      | 140     | M16x26 | 100 | 4 | 50 |

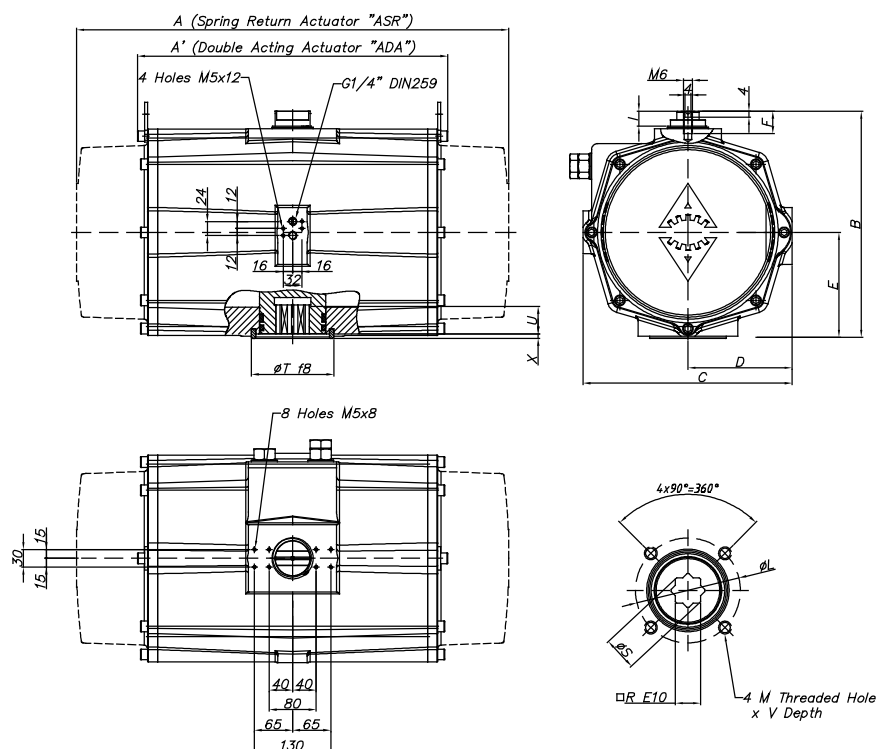
### TYPE 2100:



### AFMETINGEN: (mm)

| TYPE  | A     | A'  | B   | C     | D   | E   | F  | I  | R  | ØS   | ISO 5211 | ØL/ ØL1 | M x V  | ØT  | X | U  |
|-------|-------|-----|-----|-------|-----|-----|----|----|----|------|----------|---------|--------|-----|---|----|
| C2100 | 702,0 | 510 | 313 | 276,5 | 148 | 147 | 16 | 15 | 46 | 65,1 | F16      | 165     | M20x29 | 130 | 4 | 50 |

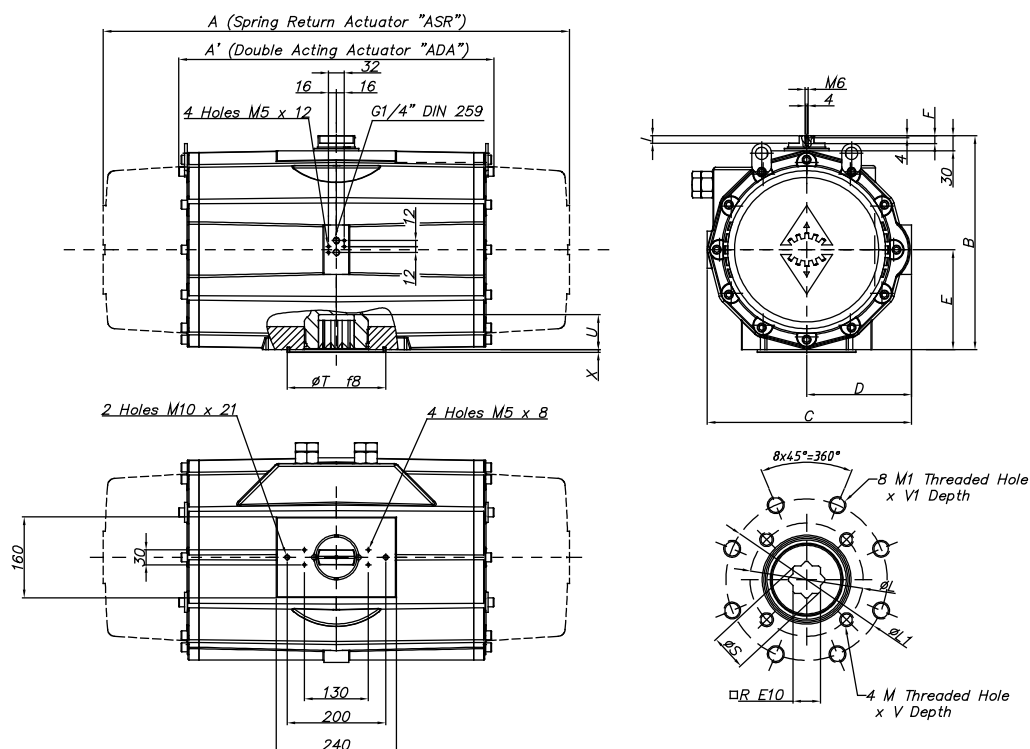
### TYPE 2500:



### AFMETINGEN: (mm)

| TYPE  | A     | A'  | B   | C     | D     | E     | F  | I  | R  | ØS   | ISO 5211 | ØL/ ØL1 | M x V  | ØT  | X | U  |
|-------|-------|-----|-----|-------|-------|-------|----|----|----|------|----------|---------|--------|-----|---|----|
| C2500 | 738,0 | 518 | 383 | 356,0 | 177,5 | 176,5 | 16 | 15 | 46 | 60,2 | F16      | 165     | M20x29 | 130 | 4 | 58 |

### TYPE 4000:



### AFMETINGEN: (mm)

| TYPE  | A     | A'  | B   | C     | D   | E   | F  | I  | R  | ØS   | ISO 5211 | ØL  | M x V  | ØT  | X | U  |
|-------|-------|-----|-----|-------|-----|-----|----|----|----|------|----------|-----|--------|-----|---|----|
| C4000 | 940,0 | 630 | 434 | 415,0 | 213 | 201 | 16 | 15 | 55 | 72,5 | F16      | 165 | M20x30 | 200 | 4 | 60 |
|       |       |     |     |       |     |     |    |    |    |      | F25      | 254 | M16x30 |     |   |    |

| TYPE | Draaimoment voor dubbelwerkende pneumatische bediening in Nm |     |         |     |       |     |         |     |       |     |         |     |       |     |         |     |       |     |       | Kg |       |
|------|--------------------------------------------------------------|-----|---------|-----|-------|-----|---------|-----|-------|-----|---------|-----|-------|-----|---------|-----|-------|-----|-------|----|-------|
|      | 3 bar                                                        |     | 3,5 bar |     | 4 bar |     | 4,5 bar |     | 5 bar |     | 5,5 bar |     | 6 bar |     | 6,5 bar |     | 7 bar |     | 8 bar |    |       |
|      | 0°                                                           | 90° | 0°      | 90° | 0°    | 90° | 0°      | 90° | 0°    | 90° | 0°      | 90° | 0°    | 90° | 0°      | 90° | 0°    | 90° | 0°    |    | 90°   |
| 10   | 6                                                            |     | 8       |     | 9     |     | 10      |     | 11    |     | 11,5    |     | 12    |     | 12      |     | 13    |     | 14    |    | 0,6   |
| 20   | 9,7                                                          |     | 11,4    |     | 13    |     | 14,6    |     | 16,2  |     | 17,8    |     | 19,5  |     | 21,1    |     | 23    |     | 26    |    | 1,4   |
| 40   | 20,3                                                         |     | 23,7    |     | 27,1  |     | 30,5    |     | 33,9  |     | 37,3    |     | 41    |     | 44      |     | 47    |     | 54    |    | 2,1   |
| 80   | 38,5                                                         |     | 44,9    |     | 51,3  |     | 57,7    |     | 64,1  |     | 70,5    |     | 77    |     | 83      |     | 90    |     | 103   |    | 3,0   |
| 130  | 59,1                                                         |     | 68,9    |     | 78,7  |     | 88,6    |     | 98,4  |     | 108,3   |     | 118   |     | 128     |     | 138   |     | 157   |    | 3,8   |
| 200  | 88                                                           |     | 102     |     | 117   |     | 131     |     | 146   |     | 161     |     | 175   |     | 190     |     | 205   |     | 234   |    | 5,6   |
| 300  | 145                                                          |     | 170     |     | 194   |     | 218     |     | 242   |     | 267     |     | 291   |     | 315     |     | 339   |     | 388   |    | 8,5   |
| 500  | 217                                                          |     | 253     |     | 289   |     | 325     |     | 361   |     | 397     |     | 433   |     | 469     |     | 505   |     | 577   |    | 11,2  |
| 850  | 359                                                          |     | 419     |     | 479   |     | 538     |     | 598   |     | 658     |     | 718   |     | 778     |     | 837   |     | 957   |    | 16,9  |
| 1200 | 519                                                          |     | 606     |     | 692   |     | 779     |     | 865   |     | 952     |     | 1038  |     | 1125    |     | 1211  |     | 1384  |    | 25,8  |
| 1750 | 707                                                          |     | 824     |     | 942   |     | 1060    |     | 1178  |     | 1295    |     | 1413  |     | 1531    |     | 1649  |     | 1884  |    | 32,5  |
| 2100 | 1086                                                         |     | 1267    |     | 1448  |     | 1629    |     | 1810  |     | 1991    |     | 2172  |     | 2353    |     | 2534  |     | 2896  |    | 49,0  |
| 2500 | 1730                                                         |     | 2019    |     | 2307  |     | 2596    |     | 2884  |     | 3172    |     | 3461  |     | 3749    |     | 4038  |     | 4614  |    | 69,6  |
| 4000 | 2408                                                         |     | 2809    |     | 3210  |     | 3612    |     | 4013  |     | 4414    |     | 4816  |     | 5217    |     | 5618  |     | 6421  |    | 129,4 |

| TYPE | Veren-<br>pakket | Draaimoment voor enkelwerkende pneumatische bediening in Nm |     |         |     |       |     |         |     |       |     |         |     |           |     |         |     |       |     |       |     | Veerslag |       | Kg   |
|------|------------------|-------------------------------------------------------------|-----|---------|-----|-------|-----|---------|-----|-------|-----|---------|-----|-----------|-----|---------|-----|-------|-----|-------|-----|----------|-------|------|
|      |                  | 3 bar                                                       |     | 3,5 bar |     | 4 bar |     | 4,5 bar |     | 5 bar |     | 5,5 bar |     | 6 bar (A) |     | 6,5 bar |     | 7 bar |     | 8 bar |     |          |       |      |
|      |                  | 0°                                                          | 90° | 0°      | 90° | 0°    | 90° | 0°      | 90° | 0°    | 90° | 0°      | 90° | 0°        | 90° | 0°      | 90° | 0°    | 90° | 0°    | 90° | EINDE    | START |      |
| 20   | S04              |                                                             |     | 8       | 5   | 9     | 7   | 11      | 8   | 13    | 10  | 14      | 12  | 16        | 13  | 17      | 15  | 19    | 17  | 22    | 20  | 4        | 7     | 1,5  |
|      | S06              |                                                             |     |         |     |       |     |         |     | 11    | 7   | 12      | 9   | 14        | 10  | 15      | 12  | 17    | 13  | 20    | 17  | 7        | 11    | 1,5  |
|      | S08 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 10      | 5   | 12        | 7   | 14      | 9   | 15    | 10  | 18    | 14  | 9        | 15    | 1,6  |
| 40   | S04              | 16                                                          | 14  | 20      | 17  | 23    | 20  | 26      | 24  | 30    | 27  | 33      | 30  | 37        | 34  | 40      | 37  | 43    | 41  | 50    | 47  | 5        | 8     | 2,2  |
|      | S06              | 14                                                          | 10  | 18      | 14  | 21    | 17  | 24      | 20  | 28    | 24  | 31      | 27  | 34        | 30  | 38      | 34  | 41    | 37  | 48    | 44  | 7        | 12    | 2,2  |
|      | S08              |                                                             |     | 15      | 10  | 19    | 14  | 22      | 17  | 26    | 20  | 29      | 24  | 32        | 27  | 36      | 30  | 39    | 34  | 46    | 41  | 10       | 16    | 2,2  |
|      | S10              |                                                             |     |         |     |       |     | 20      | 14  | 24    | 17  | 27      | 20  | 30        | 24  | 34      | 27  | 37    | 30  | 44    | 37  | 12       | 20    | 2,3  |
|      | S12              |                                                             |     |         |     |       |     |         |     | 21    | 13  | 25      | 17  | 28        | 20  | 32      | 24  | 35    | 27  | 42    | 34  | 15       | 24    | 2,3  |
|      | S14 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 23      | 13  | 26        | 17  | 30      | 20  | 33    | 24  | 40    | 30  | 17       | 28    | 2,3  |
| 80   | S04              | 31                                                          | 27  | 38      | 34  | 44    | 40  | 50      | 46  | 57    | 53  | 63      | 59  | 70        | 66  | 76      | 72  | 82    | 78  | 95    | 91  | 9        | 13    | 3,3  |
|      | S06              | 27                                                          | 21  | 34      | 28  | 40    | 34  | 47      | 41  | 53    | 47  | 59      | 53  | 66        | 60  | 72      | 66  | 79    | 73  | 92    | 86  | 13       | 20    | 3,4  |
|      | S08              |                                                             |     |         |     | 37    | 29  | 43      | 35  | 49    | 41  | 56      | 48  | 62        | 54  | 69      | 61  | 75    | 67  | 88    | 80  | 17       | 27    | 3,4  |
|      | S10              |                                                             |     |         |     |       |     | 39      | 29  | 46    | 36  | 52      | 42  | 59        | 49  | 65      | 55  | 71    | 61  | 84    | 74  | 22       | 33    | 3,5  |
|      | S12              |                                                             |     |         |     |       |     |         |     | 42    | 30  | 48      | 36  | 55        | 43  | 61      | 49  | 68    | 56  | 81    | 69  | 26       | 40    | 3,6  |
|      | S14 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 45      | 31  | 51        | 37  | 58      | 44  | 64    | 50  | 77    | 63  | 30       | 47    | 3,7  |
| 130  | S06              | 43                                                          | 36  | 52      | 46  | 62    | 56  | 72      | 65  | 82    | 75  | 92      | 85  | 102       | 95  | 111     | 105 | 121   | 115 | 141   | 134 | 19       | 27    | 4,4  |
|      | S08              |                                                             |     | 47      | 38  | 57    | 48  | 67      | 58  | 76    | 68  | 86      | 77  | 96        | 87  | 106     | 97  | 116   | 107 | 135   | 127 | 26       | 36    | 4,5  |
|      | S10              |                                                             |     |         |     | 51    | 40  | 61      | 50  | 71    | 60  | 81      | 70  | 91        | 80  | 100     | 89  | 110   | 99  | 130   | 119 | 32       | 45    | 4,6  |
|      | S12              |                                                             |     |         |     |       |     | 56      | 42  | 65    | 52  | 75      | 62  | 85        | 72  | 95      | 82  | 105   | 92  | 124   | 111 | 39       | 54    | 4,7  |
|      | S14 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 70      | 54  | 80        | 64  | 89      | 74  | 99    | 84  | 119   | 103 | 45       | 64    | 4,8  |
| 200  | S06              | 61                                                          | 49  | 76      | 63  | 90    | 78  | 105     | 92  | 119   | 107 | 134     | 122 | 149       | 136 | 163     | 151 | 178   | 166 | 207   | 195 | 31       | 46    | 6,5  |
|      | S08              |                                                             |     | 67      | 50  | 81    | 65  | 96      | 79  | 111   | 94  | 125     | 109 | 140       | 123 | 154     | 138 | 169   | 152 | 198   | 182 | 42       | 61    | 6,7  |
|      | S10              |                                                             |     |         |     | 72    | 52  | 87      | 66  | 102   | 81  | 116     | 96  | 131       | 110 | 146     | 125 | 160   | 139 | 189   | 169 | 52       | 77    | 6,9  |
|      | S12              |                                                             |     |         |     |       |     | 78      | 53  | 93    | 68  | 107     | 83  | 122       | 97  | 137     | 112 | 151   | 126 | 180   | 156 | 63       | 92    | 7,0  |
|      | S14 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 99      | 70  | 113       | 84  | 128     | 99  | 142   | 113 | 172   | 143 | 73       | 107   | 7,3  |
| 300  | S06              | 102                                                         | 75  | 126     | 99  | 151   | 123 | 175     | 148 | 199   | 172 | 223     | 196 | 247       | 220 | 272     | 245 | 296   | 269 | 344   | 317 | 51       | 83    | 9,7  |
|      | S08              |                                                             |     | 112     | 76  | 136   | 100 | 160     | 124 | 185   | 148 | 209     | 173 | 233       | 197 | 257     | 221 | 281   | 245 | 330   | 294 | 68       | 111   | 9,9  |
|      | S10              |                                                             |     |         |     | 122   | 76  | 146     | 101 | 170   | 125 | 194     | 149 | 219       | 173 | 243     | 198 | 267   | 222 | 315   | 270 | 85       | 138   | 10,2 |
|      | S12              |                                                             |     |         |     |       |     | 131     | 77  | 156   | 101 | 180     | 126 | 204       | 150 | 228     | 174 | 253   | 198 | 301   | 247 | 102      | 166   | 10,5 |
|      | S14 (A)          |                                                             |     |         |     |       |     |         |     |       |     | 165     | 102 | 190       | 126 | 214     | 151 | 238   | 175 | 287   | 223 | 119      | 193   | 10,8 |

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| TYPE | Max.<br>druk | Draaimoment voor enkelwerkende pneumatische bediening in Nm |      |         |      |       |      |         |      |       |      |         |      |           |      |         |      |       |      |       |      | Veerslag |       | Kg    |      |
|------|--------------|-------------------------------------------------------------|------|---------|------|-------|------|---------|------|-------|------|---------|------|-----------|------|---------|------|-------|------|-------|------|----------|-------|-------|------|
|      |              | 3 bar                                                       |      | 3,5 bar |      | 4 bar |      | 4,5 bar |      | 5 bar |      | 5,5 bar |      | 6 bar (A) |      | 6,5 bar |      | 7 bar |      | 8 bar |      |          |       |       |      |
|      |              | 0°                                                          | 90°  | 0°      | 90°  | 0°    | 90°  | 0°      | 90°  | 0°    | 90°  | 0°      | 90°  | 0°        | 90°  | 0°      | 90°  | 0°    | 90°  | 0°    | 90°  | EINDE    | START |       |      |
| 500  | S06          | 152                                                         | 119  | 188     | 155  | 224   | 191  | 260     | 227  | 296   | 263  | 333     | 299  | 369       | 335  | 405     | 371  | 441   | 407  | 513   | 480  | 76       | 115   | 13,3  |      |
|      | S08          | 131                                                         | 86   | 167     | 122  | 203   | 158  | 239     | 194  | 275   | 231  | 311     | 267  | 347       | 303  | 383     | 339  | 419   | 375  | 492   | 447  | 101      | 153   | 13,8  |      |
|      | S10          |                                                             |      |         |      | 181   | 126  | 217     | 162  | 254   | 198  | 290     | 234  | 326       | 270  | 362     | 306  | 398   | 342  | 470   | 414  | 126      | 192   | 14,4  |      |
|      | S12          |                                                             |      |         |      |       |      | 196     | 129  | 232   | 165  | 268     | 201  | 304       | 238  | 340     | 274  | 376   | 310  | 449   | 382  | 152      | 230   | 14,9  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      |       |      | 247     | 169  | 283       | 205  | 319     | 241  | 355   | 277  | 427   | 349  | 177      | 268   | 15,4  |      |
| 850  | S06          | 260                                                         | 209  | 320     | 269  | 380   | 328  | 440     | 388  | 500   | 448  | 559     | 508  | 619       | 568  | 679     | 627  | 739   | 687  | 858   | 807  | 116      | 177   | 19,7  |      |
|      | S08          | 227                                                         | 159  | 287     | 218  | 347   | 278  | 407     | 338  | 467   | 398  | 526     | 458  | 586       | 518  | 646     | 577  | 706   | 637  | 826   | 757  | 155      | 236   | 20,3  |      |
|      | S10          |                                                             |      | 254     | 168  | 314   | 228  | 374     | 288  | 434   | 348  | 494     | 408  | 553       | 467  | 613     | 527  | 673   | 587  | 793   | 707  | 193      | 295   | 20,9  |      |
|      | S12          |                                                             |      |         |      |       |      | 341     | 238  | 401   | 298  | 461     | 358  | 521       | 417  | 580     | 477  | 640   | 537  | 760   | 657  | 232      | 353   | 21,6  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      |       |      | 428     | 307  | 488       | 367  | 547     | 427  | 607   | 487  | 727   | 607  | 271      | 412   | 22,2  |      |
| 1200 | S06          | 373                                                         | 289  | 460     | 376  | 546   | 462  | 633     | 549  | 720   | 635  | 806     | 722  | 893       | 808  | 979     | 895  | 1066  | 981  | 1239  | 1154 | 171      | 271   | 30,1  |      |
|      | S08          | 325                                                         | 213  | 411     | 299  | 498   | 386  | 584     | 472  | 671   | 559  | 758     | 645  | 844       | 732  | 931     | 818  | 1017  | 905  | 1190  | 1078 | 229      | 361   | 31,1  |      |
|      | S10          | 276                                                         | 136  | 363     | 222  | 449   | 309  | 536     | 395  | 622   | 482  | 709     | 569  | 795       | 655  | 882     | 742  | 969   | 828  | 1142  | 1001 | 286      | 451   | 32,2  |      |
|      | S12          |                                                             |      |         |      | 401   | 232  | 487     | 319  | 574   | 405  | 660     | 492  | 747       | 578  | 833     | 665  | 920   | 751  | 1093  | 924  | 343      | 541   | 33,2  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      | 525   | 329  | 612     | 415  | 698       | 502  | 785     | 588  | 871   | 675  | 1044  | 848  | 400      | 631   | 34,3  |      |
| 1750 | S06          | 477                                                         | 349  | 595     | 466  | 712   | 584  | 830     | 702  | 948   | 820  | 1066    | 937  | 1183      | 1055 | 1301    | 1173 | 1419  | 1291 | 1654  | 1526 | 270      | 421   | 39,3  |      |
|      | S08          | 400                                                         | 229  | 518     | 347  | 636   | 465  | 754     | 582  | 871   | 700  | 989     | 818  | 1107      | 936  | 1225    | 1053 | 1342  | 1171 | 1578  | 1407 | 360      | 562   | 41,0  |      |
|      | S10          |                                                             |      | 441     | 228  | 559   | 345  | 677     | 463  | 795   | 581  | 912     | 699  | 1030      | 816  | 1148    | 934  | 1266  | 1052 | 1501  | 1287 | 451      | 702   | 42,7  |      |
|      | S12          |                                                             |      |         |      |       |      | 600     | 344  | 718   | 461  | 836     | 579  | 954       | 697  | 1071    | 815  | 1189  | 933  | 1425  | 1168 | 541      | 843   | 44,4  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      | 642   | 342  | 759     | 460  | 877       | 578  | 995     | 695  | 1113  | 813  | 1348  | 1049 | 631      | 983   | 46,0  |      |
| 2100 | S06          | 702                                                         | 509  | 883     | 690  | 1064  | 871  | 1245    | 1052 | 1426  | 1233 | 1607    | 1414 | 1788      | 1595 | 1969    | 1776 | 2150  | 1957 | 2512  | 2319 | 384      | 577   | 60,0  |      |
|      | S08          | 574                                                         | 316  | 755     | 497  | 936   | 678  | 1117    | 859  | 1298  | 1040 | 1479    | 1221 | 1660      | 1402 | 1841    | 1583 | 2022  | 1764 | 2384  | 2126 | 512      | 770   | 62,0  |      |
|      | S10          |                                                             |      | 627     | 305  | 808   | 486  | 989     | 667  | 1170  | 848  | 1351    | 1029 | 1532      | 1210 | 1713    | 1391 | 1894  | 1572 | 2256  | 1934 | 640      | 962   | 64,0  |      |
|      | S12          |                                                             |      |         |      |       |      | 861     | 474  | 1042  | 655  | 1223    | 836  | 1404      | 1017 | 1585    | 1198 | 1766  | 1379 | 2128  | 1741 | 768      | 1154  | 66,0  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      | 914   | 463  | 1095    | 644  | 1276      | 825  | 1457    | 1006 | 1638  | 1187 | 2000  | 1549 | 896      | 1347  | 68,0  |      |
| 2500 | S06          | 1299                                                        | 1045 | 1587    | 1333 | 1876  | 1622 | 2164    | 1910 | 2453  | 2199 | 2741    | 2487 | 3029      | 2775 | 3318    | 3064 | 3606  | 3352 | 4183  | 3929 | 508      | 806   | 85,9  |      |
|      | S08          | 1155                                                        | 816  | 1444    | 1105 | 1732  | 1393 | 2020    | 1682 | 2309  | 1970 | 2597    | 2258 | 2886      | 2547 | 3174    | 2835 | 3462  | 3124 | 4039  | 3700 | 677      | 1075  | 89,4  |      |
|      | S10          |                                                             |      | 1300    | 876  | 1588  | 1165 | 1877    | 1453 | 2165  | 1742 | 2453    | 2030 | 2742      | 2318 | 3030    | 2607 | 3319  | 2895 | 3895  | 3472 | 846      | 1344  | 92,9  |      |
|      | S12          |                                                             |      |         |      | 1444  | 936  | 1733    | 1225 | 2021  | 1513 | 2310    | 1802 | 2598      | 2090 | 2886    | 2378 | 3175  | 2667 | 3752  | 3243 | 1015     | 1613  | 96,4  |      |
|      | S14 (A)      |                                                             |      |         |      |       |      | 1589    | 996  | 1877  | 1285 | 2166    | 1573 | 2454      | 1861 | 2742    | 2150 | 3031  | 2438 | 3608  | 3015 | 1184     | 1882  | 99,9  |      |
| 4000 | S06          | 1763                                                        | 1262 | 2165    | 1663 | 2566  | 2065 | 2967    | 2466 | 3369  | 2867 | 3770    | 3269 |           |      |         |      |       |      |       |      | 758      | 1348  | 158,7 |      |
|      | S08          | 1549                                                        | 880  | 1950    | 1282 | 2351  | 1683 | 2752    | 2084 | 3154  | 2485 | 3555    | 2887 | 3956      | 3288 | 4358    | 3689 | 4759  | 4091 | 5068  | 4399 | 1011     | 1797  | 164,7 |      |
|      | S10          |                                                             |      |         |      | 2136  | 1301 | 2538    | 1702 | 2939  | 2104 | 3340    | 2505 | 3742      | 2906 | 4143    | 3307 | 4544  | 3709 | 4853  | 4017 | 1264     | 2246  | 170,8 |      |
|      | S12          |                                                             |      |         |      |       |      | 2323    | 1320 | 2724  | 1722 | 3125    | 2123 | 3527      | 2524 | 3928    | 2926 | 4329  | 3327 | 4638  | 3636 | 1516     | 2696  | 176,9 |      |
|      | S14 (A)      |                                                             |      |         |      |       |      |         |      |       |      |         |      | 2911      | 1741 | 3312    | 2142 | 3713  | 2544 | 4115  | 2945 | 4423     | 3254  | 1769  | 3145 |

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| TYPE | Luchtvolume (l) |         | Tijd type ADA (s) |         | Tijd type ASR (s) |         |
|------|-----------------|---------|-------------------|---------|-------------------|---------|
|      | Openen          | Sluiten | Openen            | Sluiten | Openen            | Sluiten |
| 10   | 0,035           | 0,028   | 0,02              | 0,05    | -                 | -       |
| 20   | 0,13            | 0,09    | 0,04              | 0,09    | 0,12              | 0,18    |
| 40   | 0,27            | 0,23    | 0,08              | 0,08    | 0,20              | 0,29    |
| 80   | 0,64            | 0,47    | 0,11              | 0,10    | 0,27              | 0,40    |
| 130  | 0,77            | 0,76    | 0,15              | 0,15    | 0,32              | 0,50    |
| 200  | 1,19            | 1,2     | 0,18              | 0,22    | 0,50              | 0,60    |
| 300  | 1,96            | 1,73    | 0,30              | 0,40    | 0,70              | 0,85    |
| 500  | 2,95            | 2,74    | 0,40              | 0,50    | 0,90              | 1,10    |
| 850  | 4,7             | 3,86    | 0,80              | 0,90    | 2,20              | 2,60    |
| 1200 | 6,95            | 4,64    | 1,20              | 1,50    | 2,30              | 2,80    |
| 1750 | 9,8             | 9,3     | 1,80              | 2,00    | 2,80              | 3,20    |
| 2100 | 11,6            | 10,2    | 2,30              | 2,60    | 3,30              | 3,70    |
| 2500 | 25              | 32      | 2,80              | 3,10    | 3,80              | 4,20    |
| 4000 | 33,2            | 27,5    | 3,00              | 3,50    | 4,30              | 5,00    |

Zonder belasting, stuurdruk 6 bar, standaard verenpakket

Het luchtverbruik is het vrij luchtvolume bij 1 atm