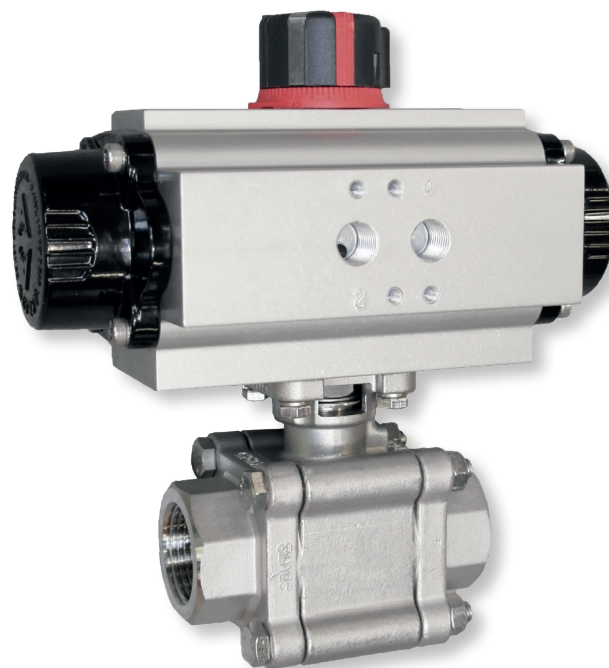
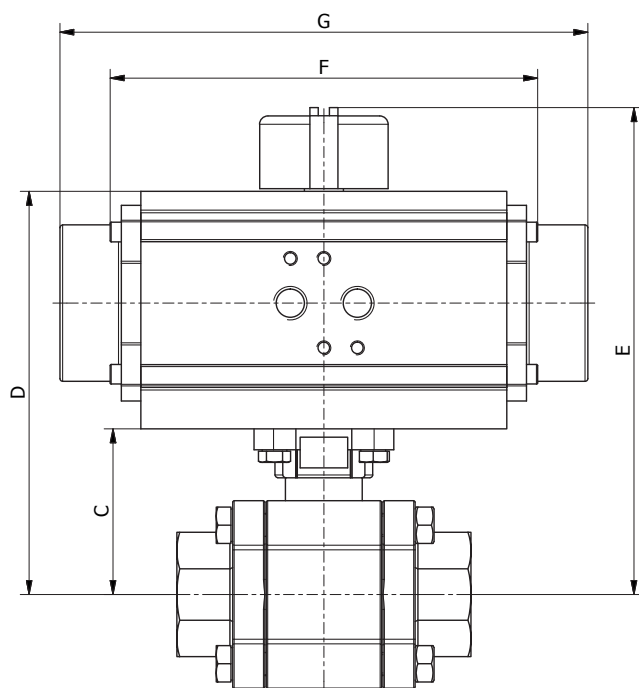


FIGUUR:
AD: Pneumatische bediening, dubbelwerkend

AS: Pneumatische bediening, enkelwerkend

AFMETINGEN: (mm)

| Ø | DN | C | AD | | | | | AS | | | | |
|--------|-----|-------|-----|-------|-------|-----|------|-----|-------|-------|-------|------|
| | | | AD | D | E | F | Kg | AS | D | E | G | Kg |
| 1/4" | 8 | 42,6 | 10 | 88,6 | 118,6 | 100 | 2,1 | 20 | 108,6 | 138,6 | 163,0 | 2,2 |
| 3/8" | 10 | 42,6 | 10 | 88,6 | 118,6 | 100 | 2,1 | 20 | 108,6 | 138,6 | 163,0 | 2,2 |
| 1/2" | 15 | 42,6 | 10 | 88,6 | 118,6 | 100 | 2,1 | 20 | 108,6 | 138,6 | 163,0 | 2,2 |
| 3/4" | 20 | 46,9 | 10 | 92,9 | 122,9 | 100 | 2,5 | 20 | 112,9 | 142,9 | 163,0 | 3,3 |
| 1" | 25 | 59,3 | 20 | 125,3 | 155,3 | 145 | 3,0 | 40 | 144,3 | 174,3 | 195,0 | 4,0 |
| 1 1/4" | 32 | 62,6 | 40 | 147,6 | 177,6 | 158 | 4,6 | 40 | 147,6 | 177,6 | 195,0 | 6,2 |
| 1 1/2" | 40 | 79,0 | 80 | 186,0 | 216,0 | 177 | 7,0 | 80 | 186,0 | 216,0 | 217,0 | 8,9 |
| 2" | 50 | 87,7 | 80 | 194,7 | 224,7 | 177 | 9,7 | 80 | 194,7 | 224,7 | 217,0 | 13,7 |
| 2 1/2" | 65 | 108,7 | 80 | 215,7 | 245,7 | 177 | 14,7 | 200 | 243,7 | 273,7 | 299,0 | 22,1 |
| 3" | 80 | 117,7 | 200 | 252,7 | 282,7 | 225 | 21,6 | 300 | 269,7 | 299,7 | 348,5 | 29,1 |
| 4" | 100 | 133,7 | 200 | 268,7 | 298,7 | 225 | 31,2 | 300 | 285,7 | 315,7 | 348,5 | 44,2 |

De pneumatische bediening is berekend voor een stuurdruk van 6 bar, met een veiligheidsfactor van 30% en een verschildruk van 0 bar. Voor standaard bedrijfsomstandigheden.

TOEBEHOREN:

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

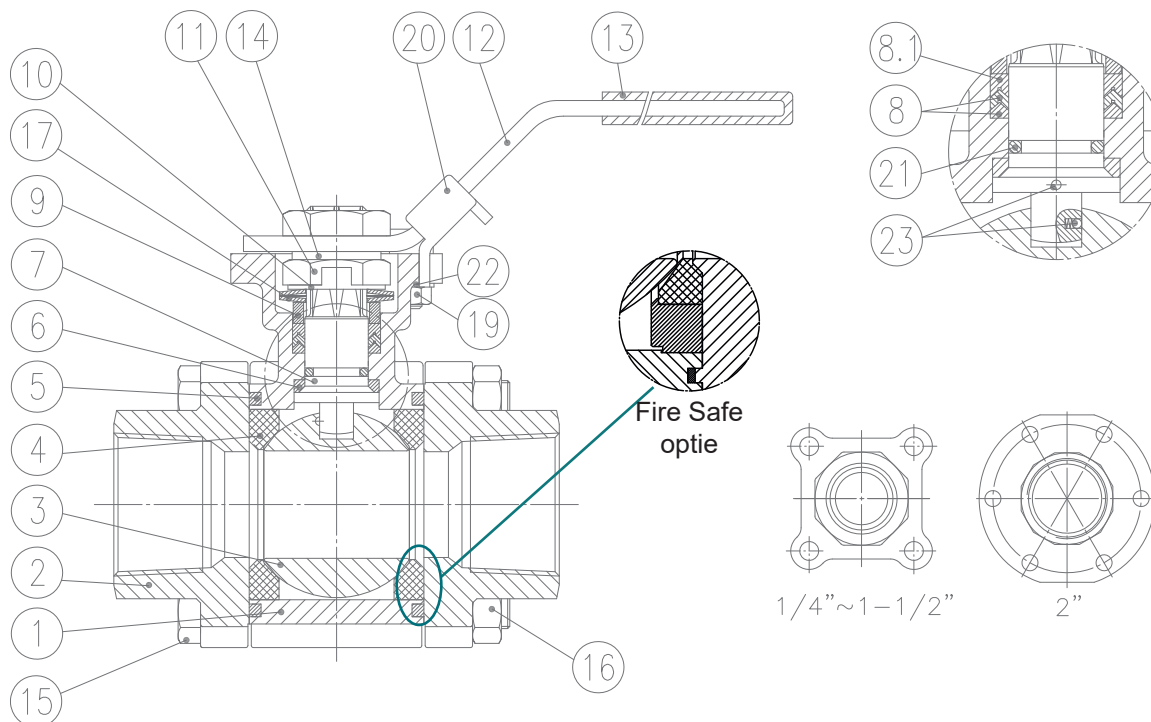
ALGEMENE KENMERKEN:

- 3-delige kogelkraan in roestvrijstaal, volle doorlaat 1/4" (DN 8) - 4" (DN 100)
- Locking device
- Rechtstreekse opbouw volgens ISO 5211
- Niet-uitdrukbare spindel en antistatisch met o-ring
- Kogel met drukvereffeningsboring
- V-ring Chevron pakking
- Fire safe versie op aanvraag (Huisafdichtingen en spindelpakkingen in grafiet), type FS
- Druk: 1/4" - 1" 2000 psi, 138 bar
- 1 1/4" - 2" 1500 psi, 103 bar
- 2 1/2" - 4" 1000 psi, 69 bar



| ONTWERP | |
|------------------------|--|
| Kogelkraan | ISO 5752, NACE MR-0175 |
| Volgens | ANSI B16.34, ANSI B16.25, ANSI B1.20, API 6D |
| Opbouwflens | ISO 5211 |
| Markering | ISO 5209, EN 19 |
| TESTEN EN CERTIFICATEN | |
| Kwaliteit | ISO 9001 |
| Materiaal certificaten | EN 10204-3.1 |
| Druktest | API 598, BS6755 part 1 |

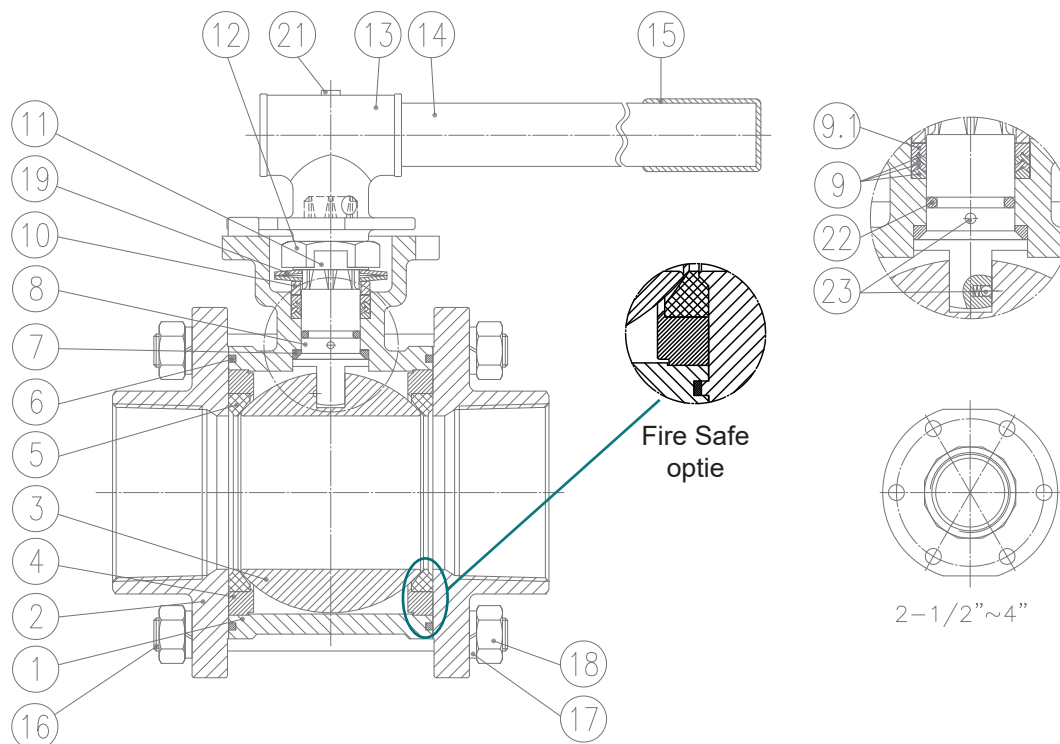
1/4" ~ 2":



| Pos. | Omschrijving | Materialen |
|------|--------------------|---|
| 1 | Huis | ASTM A351 Gr. CF8M |
| 2 | Aansluitflens | ASTM A351 Gr. CF8M (CF3M voor SW en BW) |
| 3 | Kogel | Roestvast staal AISI 316 (1/4" & 3/8" CF8M) |
| 4 | Zitting | RPTFE |
| 5 | Huisafdichting | PTFE* |
| 6 | Drukkring | RPTFE |
| 7 | Spindel | Roestvast staal AISI 316 |
| 8 | Pakking | PTFE** |
| 8.1 | Pakking | 25% G.F. + PTFE* |
| 9 | Pakkingring | Roestvast staal AISI 304 |
| 10 | Borgplaat | Roestvast staal AISI 304 |
| 11 | Spindelmoer | Roestvast staal AISI 304 |
| 12 | Hendel | Roestvast staal AISI 304 |
| 13 | Bescherming | Vinyl |
| 14 | Rondel | Roestvast staal AISI 304 |
| 15 | Bout | Roestvast staal AISI 304 |
| 16 | Moer | Roestvast staal AISI 304 |
| 17 | Schotelveer | Roestvast staal AISI 301 |
| 18 | Stop | Roestvast staal AISI 304 |
| 19 | Rondel | Roestvast staal AISI 304 |
| 20 | Locking device | Roestvast staal AISI 304 |
| 21 | O-ring | Viton |
| 22 | Rondel | Roestvast staal AISI 304 |
| 23 | Anti-static device | Roestvast staal AISI 316 |

* Grafiet voor Fire Safe versie

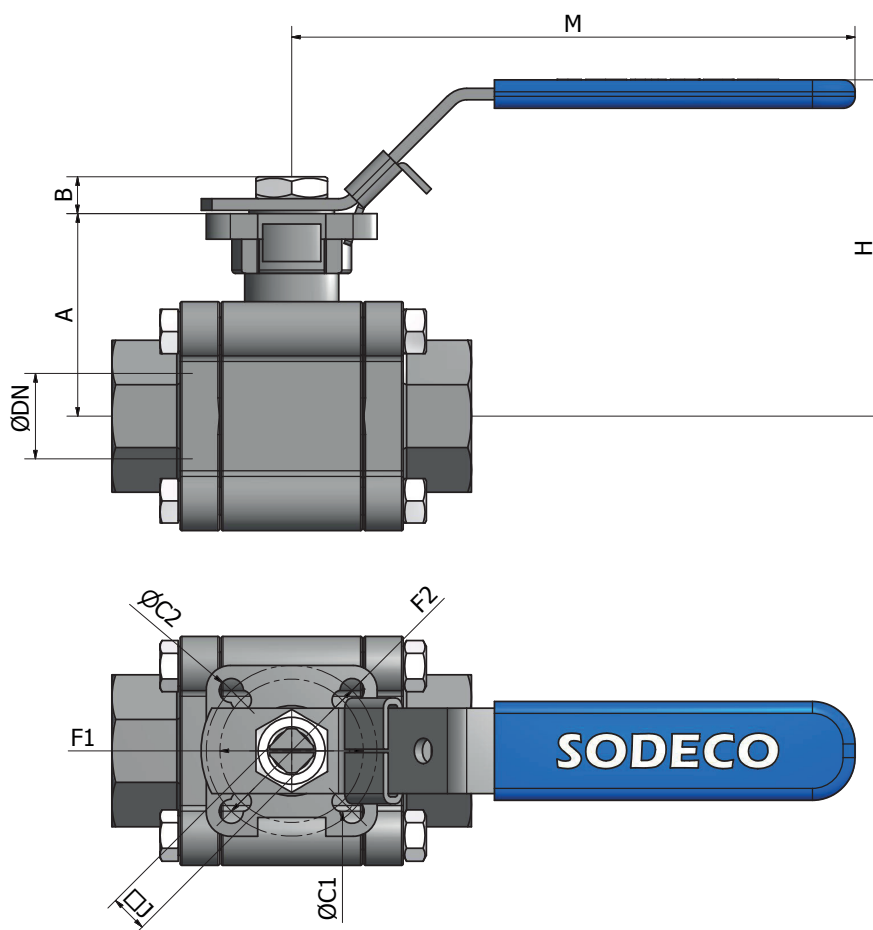
** PTFE + 25GF voor Fire Safe versie

2 1/2" ~ 4":


| Pos. | Omschrijving | Materialen |
|------|--------------------|---|
| 1 | Huis | ASTM A351 Gr. CF8M |
| 2 | Aansluitflens | ASTM A351 Gr. CF8M (CF3M voor SW en BW) |
| 3 | Kogel | Roestvast staal CF8M |
| 4 | Zitting | ASTM A351 Gr. CF8M |
| 5 | Zitting | RPTFE |
| 6 | Huisafdichting | PTFE* |
| 7 | Drukkring | RPTFE |
| 8 | Spindel | Roestvast staal AISI 316 |
| 9 | Pakking | PTFE** |
| 9.1 | Pakking | RPTFE* |
| 10 | Pakkingring | Roestvast staal AISI 304 |
| 11 | Borgplaat | Roestvast staal AISI 304 |
| 12 | Spindelmoer | Roestvast staal AISI 304 |
| 13 | Hendel-A | Roestvast staal AISI 304 |
| 14 | Hendel-B | Roestvast staal AISI 304 |
| 15 | Bescherming | Vinyl |
| 16 | Bout | Roestvast staal AISI 304 |
| 17 | Rondel | Roestvast staal AISI 304 |
| 18 | Moer | Roestvast staal AISI 304 |
| 19 | Schotelveer | Roestvast staal AISI 301 |
| 20 | Stop | Roestvast staal AISI 304 |
| 21 | Schroef | Roestvast staal AISI 304 |
| 22 | O-ring | Viton |
| 23 | Anti-static device | Roestvast staal AISI 316 |

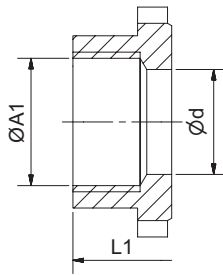
* Grafiet voor Fire Safe versie

** PTFE + 25GF voor Fire Safe versie

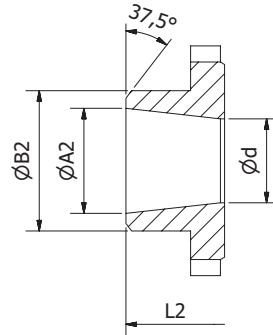

AFMETINGEN: (mm)

| Ø | DN | A | B | H | M | F1 | ØC1 | F2 | ØC2 | □J | Kg |
|--------|-----|-------|------|-------|-----|----|------|-----|-----|----|------|
| 1/4" | 8 | 42,6 | 7,6 | 77,0 | 139 | 36 | 6,0 | 42 | 6 | 9 | 0,8 |
| 3/8" | 10 | 42,6 | 7,6 | 77,0 | 139 | 36 | 6,0 | 42 | 6 | 9 | 0,9 |
| 1/2" | 15 | 42,6 | 7,6 | 77,0 | 139 | 36 | 6,0 | 42 | 6 | 9 | 0,9 |
| 3/4" | 20 | 46,9 | 8,6 | 82,0 | 139 | 36 | 6,0 | 42 | 6 | 9 | 1,3 |
| 1" | 25 | 59,3 | 10,4 | 98,5 | 165 | 42 | 6,0 | 50 | 7 | 11 | 2,0 |
| 1 1/4" | 32 | 62,6 | 10,4 | 102,0 | 165 | 42 | 6,0 | 50 | 7 | 11 | 2,8 |
| 1 1/2" | 40 | 79,0 | 13,4 | 128,0 | 215 | 50 | 7,5 | 70 | 9 | 14 | 4,2 |
| 2" | 50 | 87,7 | 13,4 | 137,0 | 215 | 50 | 7,5 | 70 | 9 | 14 | 6,9 |
| 2 1/2" | 65 | 108,7 | 16,8 | 167,0 | 300 | 70 | 10,0 | 102 | 12 | 17 | 12,0 |
| 3" | 80 | 117,7 | 17,8 | 176,0 | 370 | 70 | 10,0 | 102 | 12 | 17 | 16,2 |
| 4" | 100 | 133,7 | 16,8 | 192,0 | 370 | 70 | 10,0 | 102 | 12 | 17 | 25,8 |

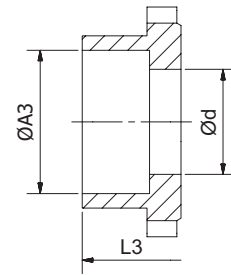
BSP/NPT



BW Sch. 40

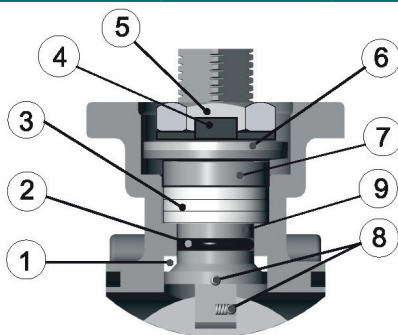


SW



AFMETINGEN: (mm)

| ØA1 | Ød | L1 | ØA2 | ØB2 | L2 | ØA3 | L3 |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 1/4" | 11,5 | 75,0 | 9,2 | 13,7 | 75,0 | 14,3 | 75,0 |
| 3/8" | 12,6 | 75,0 | 12,5 | 17,5 | 75,0 | 17,6 | 75,0 |
| 1/2" | 15,0 | 72,5 | 15,8 | 21,7 | 75,0 | 21,9 | 72,5 |
| 3/4" | 20,0 | 85,4 | 21,0 | 27,2 | 90,0 | 27,3 | 85,4 |
| 1" | 25,0 | 105,3 | 26,6 | 34,0 | 110,0 | 33,9 | 105,3 |
| 1 1/4" | 32,0 | 111,0 | 35,1 | 42,7 | 115,0 | 42,8 | 111,0 |
| 1 1/2" | 38,0 | 127,3 | 40,9 | 48,6 | 130,0 | 48,9 | 127,3 |
| 2" | 50,0 | 142,8 | 52,5 | 60,5 | 142,8 | 61,3 | 142,8 |
| 2 1/2" | 65,0 | 185,0 | 65,0 | 73,0 | 185,0 | 76,9 | 185,0 |
| 3" | 80,0 | 205,0 | 80,0 | 89,0 | 205,0 | 90,0 | 205,0 |
| 4" | 100,0 | 240,0 | 102,0 | 114,0 | 240,0 | 115,5 | 240,0 |



1. Konisch aseinde met asafdichting

Eerste afdichting tegen lekken via de asafdichting
De 45° helling van de as trekt de asafdichting
gelijkmatic aan en voorkomt lekkage tijdens openen en
sluiten.

2. O-ring spindelpakking

Tweede afdichting tegen lekken.
Versterkt de spindelafdichting en behoudt spindeluit-
lijning, waardoor de levensduur wordt verlengd.

3. V-ring as afdichting

Derde afdichting tegen lekken via de asafdichting.
Meerdere lagen bestaande uit V-ringen zetten zijdelings
uit wanneer ze aangetrokken worden en voorkomen op
die wijze mogelijke lekkages.

4. Borgzadel

Zorgt ervoor dat de asmoer niet kan loskomen tijdens
de werking.

5. Asmoer

Drukt de asafdichting samen en voorkomt lekken.

6. Veerrondsels

Drukken de asafdichting aan en compenseren door
ontspannen de slijtage van de asafdichtingsringen.

7. Pakkingdrukker

Roestvrijstaal, verdeelt gelijkmatig de kracht over de
asafdichting.

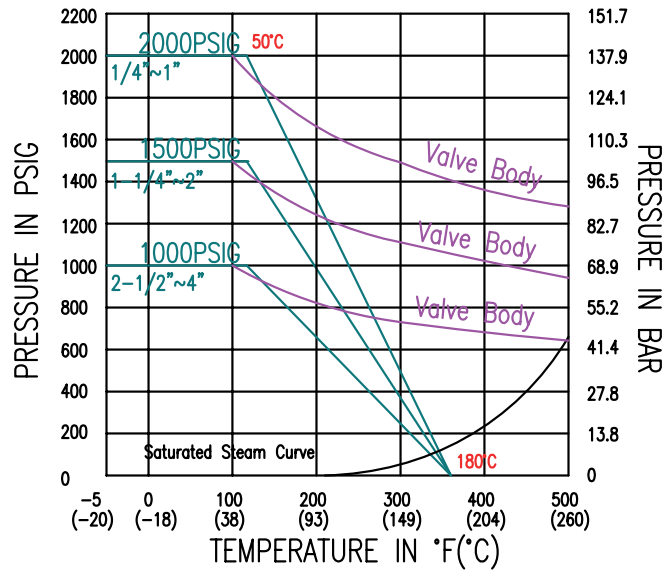
8. Anti-static device

As naar kogel verbinding en
as naar het huis verbinding.

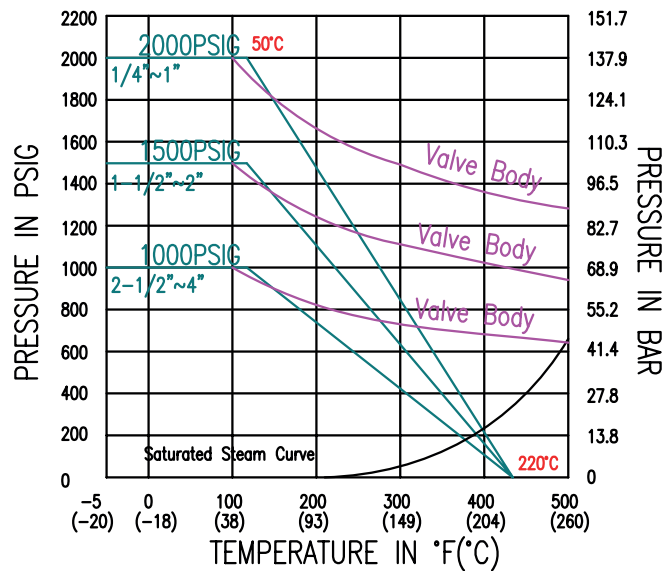
9. Fijn gepolijste spindel

Vermindert de wrijving en het werken van de afdichting.

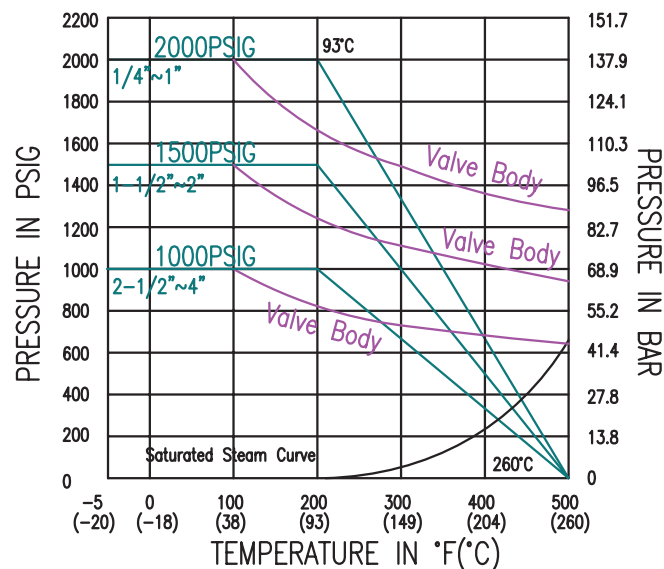
DRUK-/TEMPERATUURDIAGRAMMA PTFE/RPTFE:



DRUK-/TEMPERATUURDIAGRAMMA STANSIT:



DRUK-/TEMPERATUURDIAGRAMMA PEEK:



Kv-WAARDEN:

| Ø | T (Nm) | | | Kv (m³/h) |
|--------|--------------|---------|------|-----------|
| | PTFE - RPTFE | STANSIT | PEEK | |
| 1/4" | 8 | 9 | 13 | 7 |
| 3/8" | 8 | 9 | 13 | 7 |
| 1/2" | 8 | 9 | 17 | 13 |
| 3/4" | 9 | 12 | 22 | 29 |
| 1" | 14 | 17 | 34 | 48 |
| 1 1/4" | 22 | 26 | 43 | 73 |
| 1 1/2" | 30 | 35 | 60 | 108 |
| 2" | 31 | 36 | 68 | 216 |
| 2 1/2" | 61 | 68 | 306 | 277 |
| 3" | 82 | 88 | 325 | 501 |
| 4" | 114 | 114 | 930 | 882 |

Draaimomenten voor 0 bar verschilddruk, met 30 % veiligheid

| TYPE | | AANSL. | ISO 5211 | MATERIALEN | | | Fire safe | DN |
|------|---|--------|----------|------------|-------|---------|-----------|-----|
| | | | | HUIS | KOGEL | ZITTING | | |
| 3 | 9 | 3 | BA | I | I | T | FS | 025 |



= vast

AANSLUITING

| | |
|---|---|
| 1 | BSP volgens DIN 2999 / ISO 228-1 |
| 2 | BW schedule 40, ANSI B16.25 & DIN 3239 deel 1 |
| 3 | SW volgens ANSI B16.11 & DN 3239 deel 2 |
| 4 | NPT volgens ASME B1.20.1 |

ZITTING

| | |
|---|----------------|
| T | PTFE |
| S | Stansit |
| R | Versterkt PTFE |
| P | PEEK |

FIRE SAFE

| | |
|----|----------------------|
| - | Standaard uitvoering |
| FS | Fire safe |

ALGEMENE KENMERKEN:

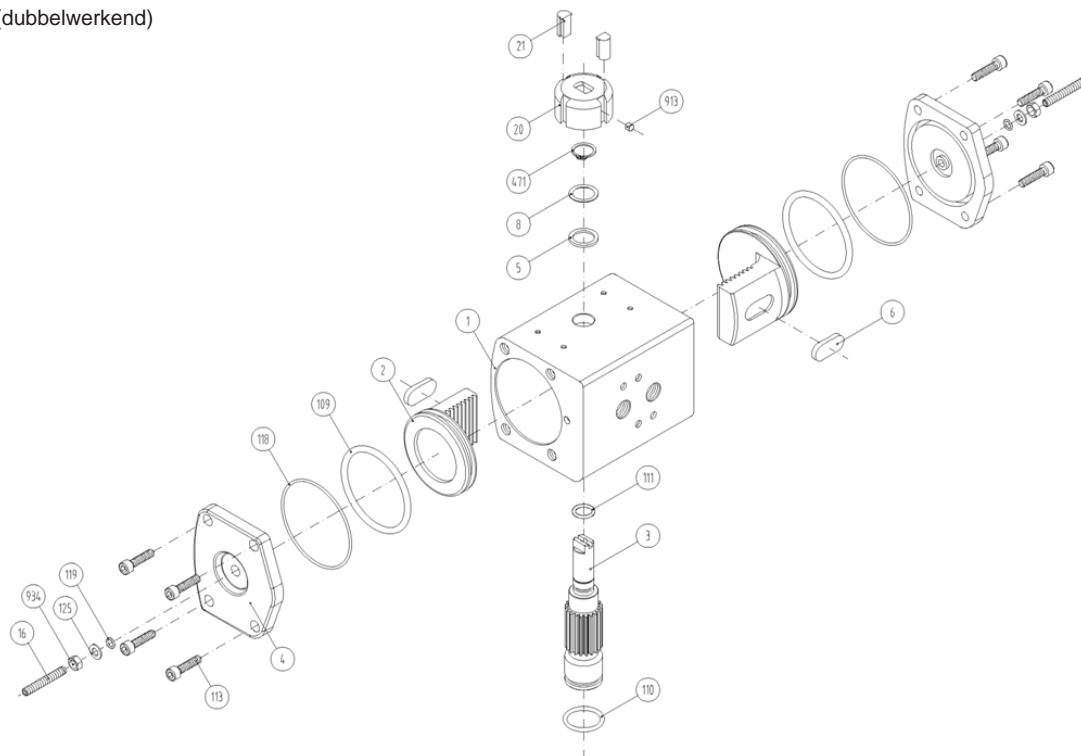
- Rack & pinion pneumaat
- Verdraaiing 90° ±5°
- Slagbegrenzerregeling ±5°
- Werktemperatuur: -30 °C ~ 100 °C
- Stuurdruk: 3 ~ 8 bar
- Koppeling volgens ISO 5211 en DIN 3337 (achthoekige insert)
- Opbouw van magneetventielen volgens Namur Std.
- Opbouw van naderingschakelaars volgens Namur

FIGUUR:
ADA: dubbelwerkend

ASR: enkelwerkend, normaal gesloten

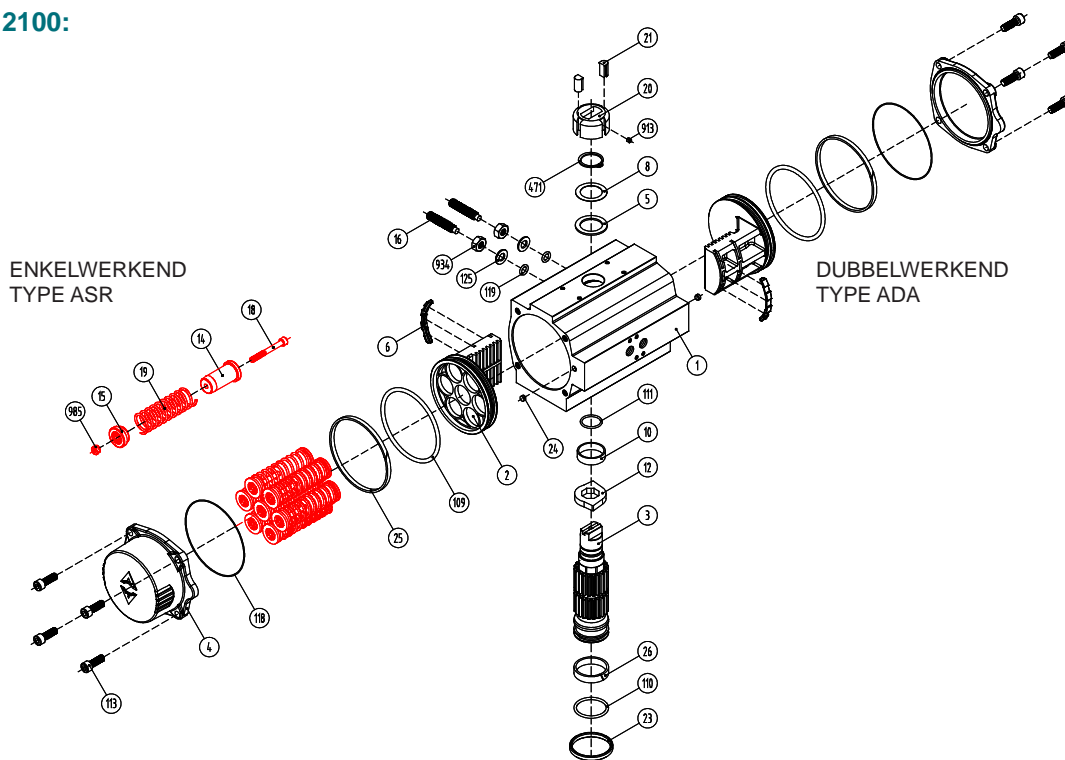
ASRO: enkelwerkend, normaal open


| 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 |
|------|---------------------|-----------------------------|
| 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 |
| 16 | Instelbout | Roestvrijstaal |
| 20 | Visuele standmelder | Polyamide |
| 21 | Nok | Polyamide |

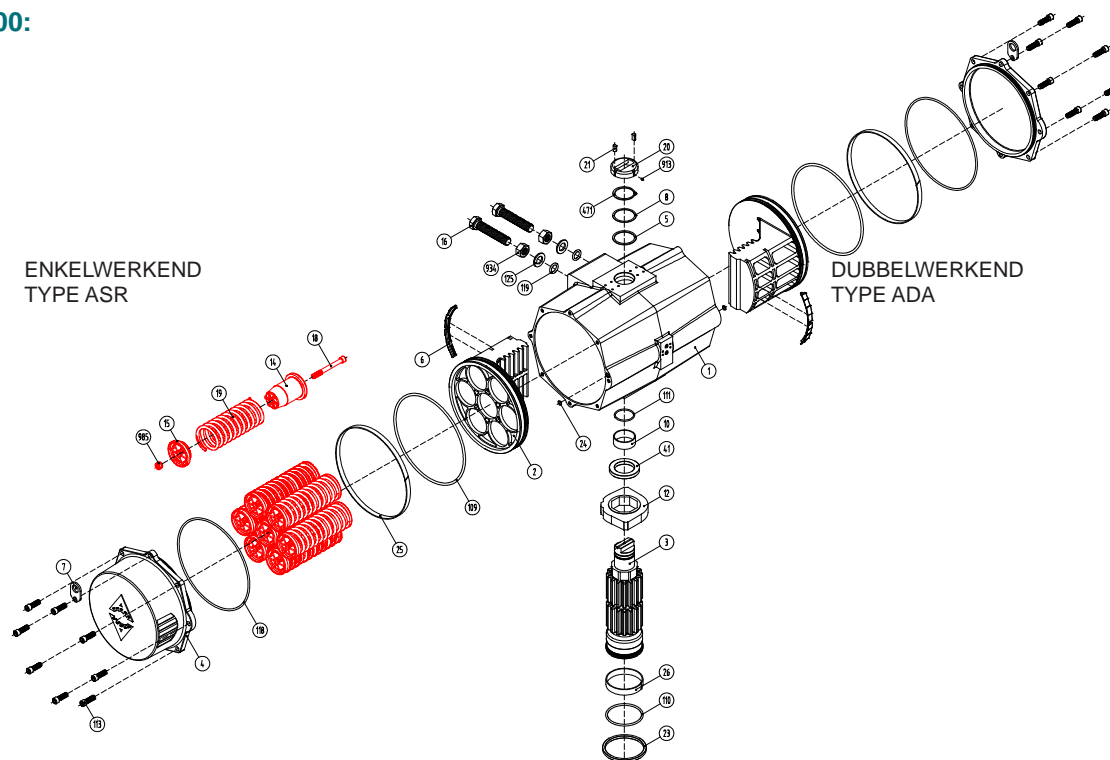
| Item | Omschrijving | Materiaal |
|------|------------------|----------------|
| 109 | O-Ring | NBR |
| 110 | O-Ring | NBR |
| 111 | O-Ring | NBR |
| 113 | Bout | Roestvrijstaal |
| 118 | O-Ring | NBR |
| 119 | O-Ring | NBR |
| 125 | Rondel | Roestvrijstaal |
| 913 | Bout | Roestvrijstaal |
| 471 | Externe circlips | Roestvrijstaal |
| 934 | Moer | Roestvrijstaal |

TYPE 20 - 2100:

MATERIALEN:

| Item | Omschrijving | Materiaal | Item | Omschrijving | Materiaal |
|------|---------------------|---|------|------------------|------------------|
| 1 | Huis | Aluminium hard geanodiseerd | 21 | Nok | Polyamide |
| 2 | Zuiger | Aluminium | 23 | Centreerring | Vernikkeld staal |
| 3 | As | Vernikkeld staal | 24 | Stop | NBR |
| 4 | Eindkap | Aluminium Epoxy gecoat | 25 | Geleidingsring | Resin |
| 5 | Veerrondel | Polyamide PA 6.6 | 26 | Lagerring | PTFE + 25% GF |
| 6 | Geleidingsring | Polyamide PA 6.6 + 30% G.F. | 109 | O-Ring | NBR |
| 8 | Veerrondel | Roestvrijstaal | 110 | O-Ring | NBR |
| 10 | Lagerring | PTFE + 25% GF (brons: type 500 ~ 2100) | 111 | O-Ring | NBR |
| 12 | Stop | ASTM A 105 | 113 | Bout | Roestvrijstaal |
| 14 | (*) Veerbout | Polyamide PA 6.6 | 118 | O-Ring | NBR |
| 15 | (*) Veerbout | Polyamide PA 6.6 | 119 | O-Ring | NBR |
| 16 | Instelbout | Roestvrijstaal | 125 | Rondel | Roestvrijstaal |
| 18 | (*) Bout | Roestvrijstaal | 913 | Bout | Roestvrijstaal |
| 19 | (*) Veer | DIN 2076 -D-5.6 | 471 | Externe circlips | Roestvrijstaal |
| 20 | Visuele standmelder | Polyamide | 934 | Moer | Roestvrijstaal |
| | | | 985 | (*) Moer | Roestvrijstaal |

* Enkel voor ASR

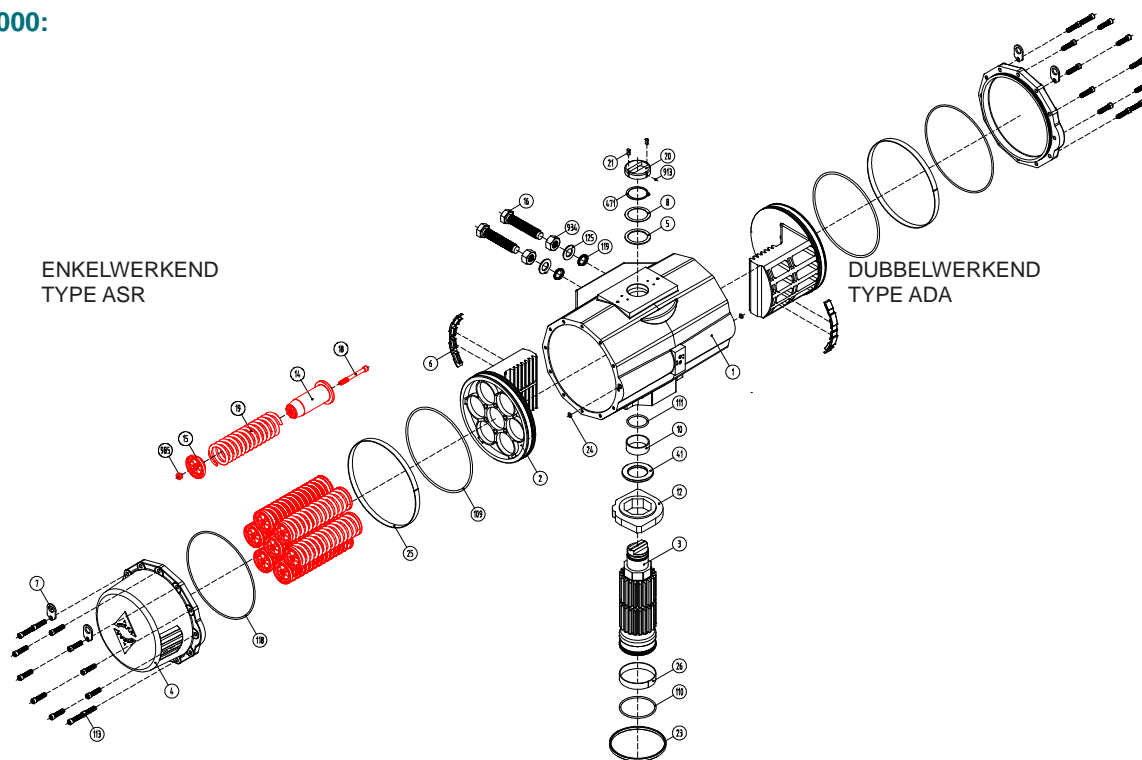
** Voor type 20: Polyamide PA 6.6 + 30% G.F.

TYPE 2500:

MATERIALEN:

| Item | Omschrijving | Materiaal | Item | Omschrijving | Materiaal |
|------|---------------------|---|------|------------------|------------------|
| 1 | Huis | Aluminium hard geanodiseerd | 21 | Nok | Polyamide |
| 2 | Zuiger | Aluminium | 23 | Centreerring | Vernikkeld staal |
| 3 | As | Vernikkeld staal | 24 | Stop | NBR |
| 4 | Eindkap | Aluminium Epoxy gecoat | 25 | Geleidingsring | Resin |
| 5 | Veerrondel | Polyamide PA 6.6 | 26 | Lagerring | PTFE + 25% GF |
| 6 | Geleidingsring | Polyamide PA 6.6 + 30% G.F. | 109 | O-Ring | NBR |
| 8 | Veerrondel | Roestvrijstaal | 110 | O-Ring | NBR |
| 10 | Lagerring | PTFE + 25% GF (brons: type 500 ~ 2100) | 111 | O-Ring | NBR |
| 12 | Stop | ASTM A 105 | 113 | Bout | Roestvrijstaal |
| 14 | (*) Veerbout | Polyamide PA 6.6 | 118 | O-Ring | NBR |
| 15 | (*) Veerbout | Polyamide PA 6.6 | 119 | O-Ring | NBR |
| 16 | Instelbout | Roestvrijstaal | 125 | Rondel | Roestvrijstaal |
| 18 | (*) Bout | Roestvrijstaal | 913 | Bout | Roestvrijstaal |
| 19 | (*) Veer | DIN 2076 -D-5.6 | 471 | Externe circlips | Roestvrijstaal |
| 20 | Visuele standmelder | Polyamide | 934 | Moer | Roestvrijstaal |
| | | | 985 | (*) Moer | Roestvrijstaal |

* Enkel voor ASR

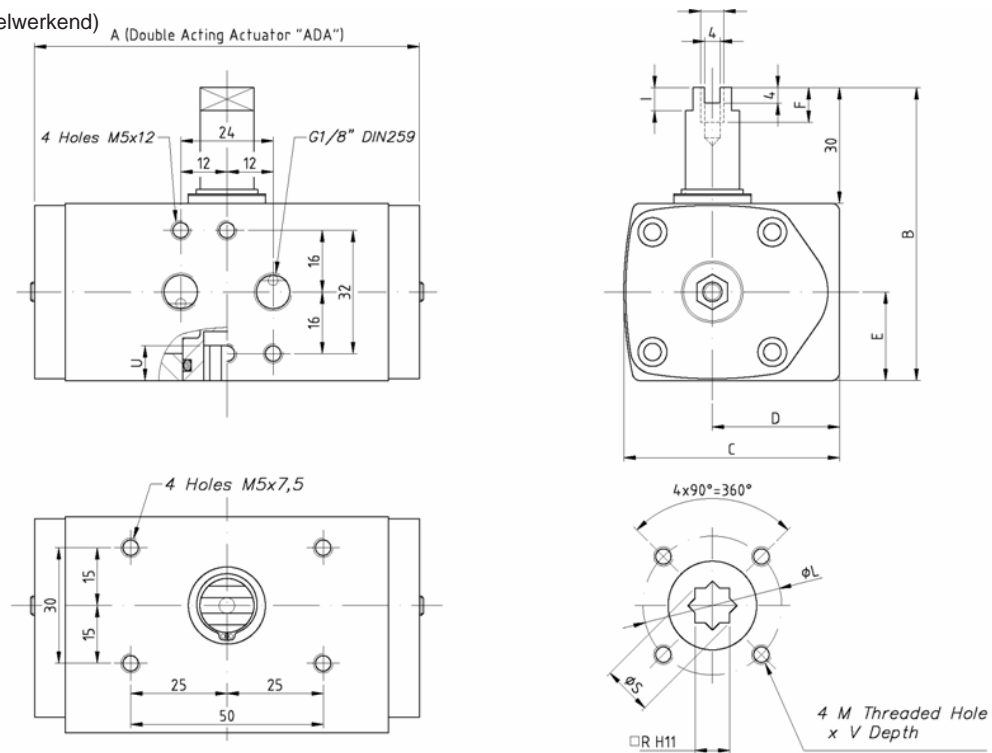
** Voor type 20: Polyamide PA 6.6 + 30% G.F.

TYPE 4000:

MATERIALEN:

| Item | Omschrijving | Materiaal | Item | Omschrijving | Materiaal |
|------|---------------------|---|------|------------------|------------------|
| 1 | Huis | Aluminium hard geanodiseerd | 21 | Nok | Polyamide |
| 2 | Zuiger | Aluminium | 23 | Centreerring | Vernikkeld staal |
| 3 | As | Vernikkeld staal | 24 | Stop | NBR |
| 4 | Eindkap | Aluminium Epoxy gecoat | 25 | Geleidingsring | Resin |
| 5 | Veerrondel | Polyamide PA 6.6 | 26 | Lagerring | PTFE + 25% GF |
| 6 | Geleidingsring | Polyamide PA 6.6 + 30% G.F. | 109 | O-Ring | NBR |
| 8 | Veerrondel | Roestvrijstaal | 110 | O-Ring | NBR |
| 10 | Lagerring | PTFE + 25% GF (brons: type 500 ~ 2100) | 111 | O-Ring | NBR |
| 12 | Stop | ASTM A 105 | 113 | Bout | Roestvrijstaal |
| 14 | (*) Veerbout | Polyamide PA 6.6 | 118 | O-Ring | NBR |
| 15 | (*) Veerbout | Polyamide PA 6.6 | 119 | O-Ring | NBR |
| 16 | Instelbout | Roestvrijstaal | 125 | Rondel | Roestvrijstaal |
| 18 | (*) Bout | Roestvrijstaal | 913 | Bout | Roestvrijstaal |
| 19 | (*) Veer | DIN 2076 -D-5.6 | 471 | Externe circlips | Roestvrijstaal |
| 20 | Visuele standmelder | Polyamide | 934 | Moer | Roestvrijstaal |
| | | | 985 | (*) Moer | Roestvrijstaal |

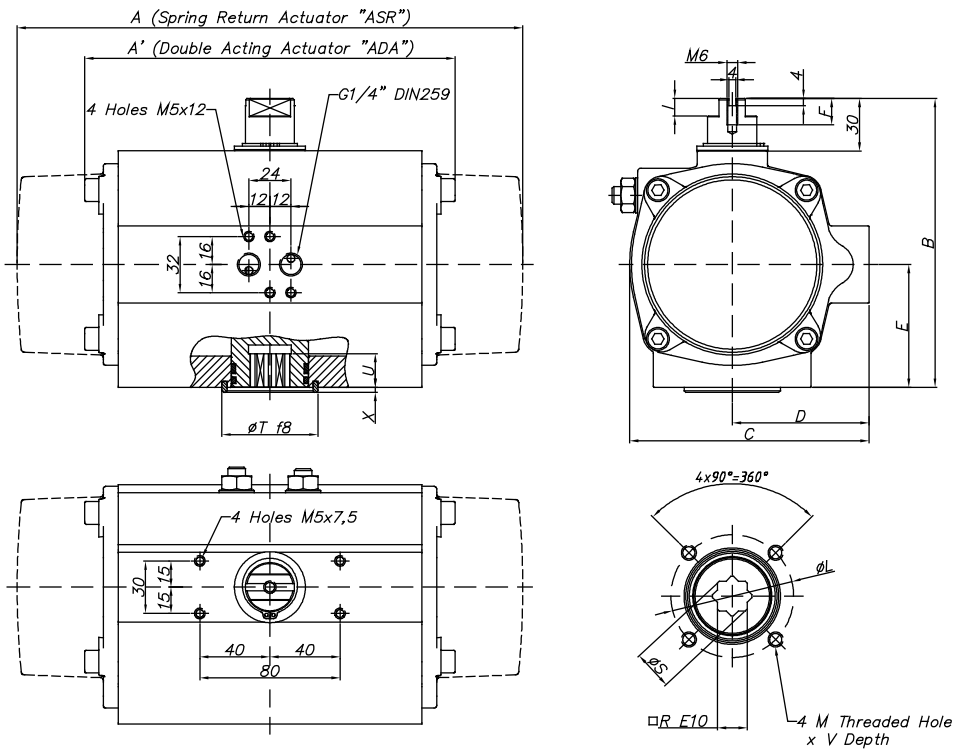
* Enkel voor ASR

** 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:

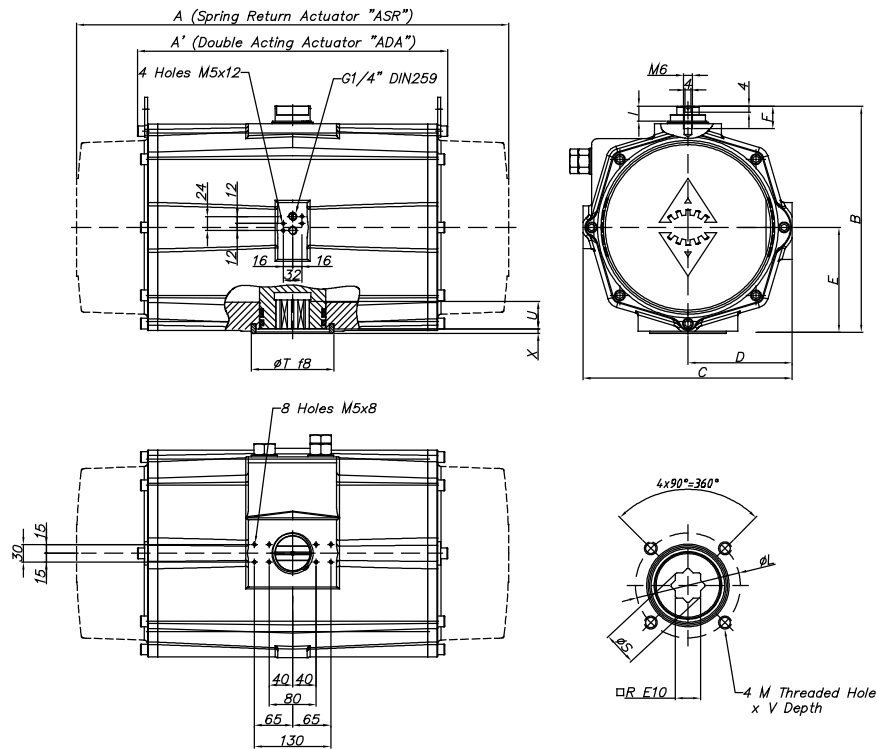


AFMETINGEN: (mm)

| 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 |

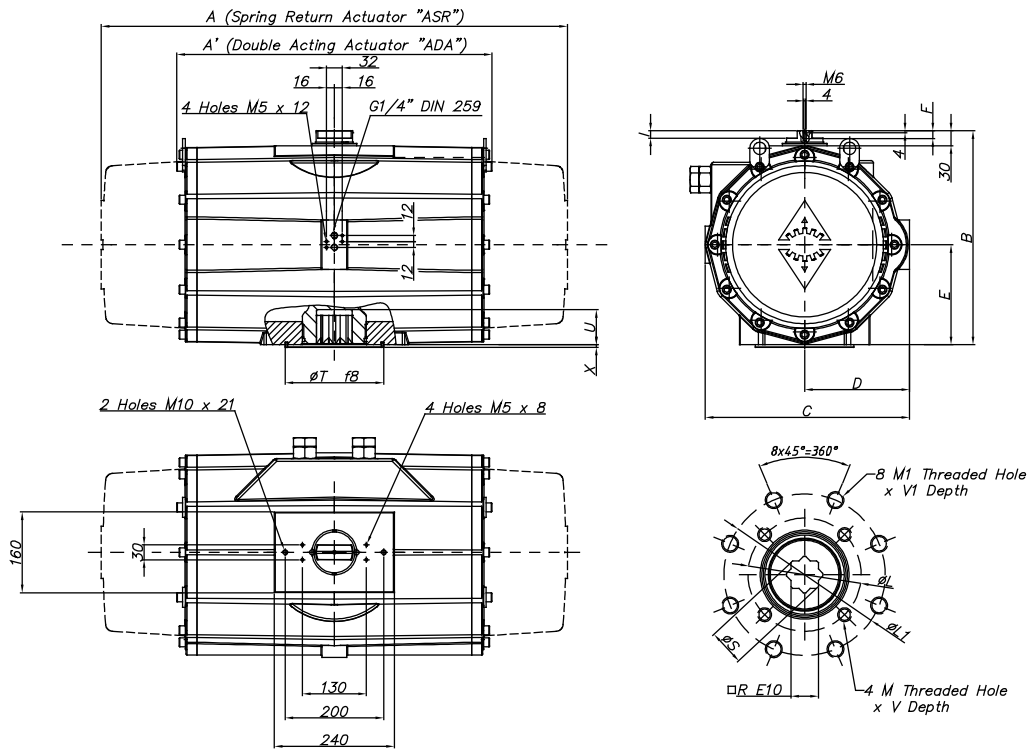
Wijzigingen voorbehouden

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 | Verenpakket | 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 | | | EINDE | START |
| | | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | | | |
| 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 (A) | | | | | | | | | 11 | 7 | 12 | 9 | 14 | 10 | 15 | 12 | 17 | 13 | 20 | 17 | 7 | 11 | 1,5 |
| | S08 | | | | | | | | | | | 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 |

(A) Standaard

| TYPE | Max. 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 | | EINDE | START | |
| | | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | 0° | 90° | | | |
| 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 | 182,9 |

(A) Standaard

| 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