

Product Range

Check valves
Type 561 and Type 562



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PVC-U metric

Cone check valves

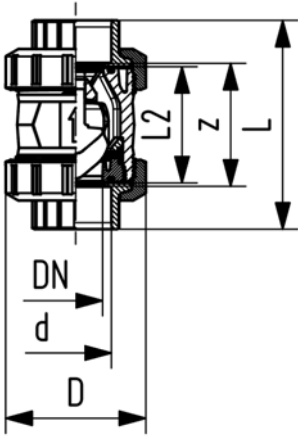
Check valve type 561 PVC-U With solvent cement sockets metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|--------|---------|----|--------------------------------------|-------------|-------------|--------|--------|---------|--------|--------------|
| 16 | 10 | 16 | 190 | 161 561 001 | 161 561 011 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 161 561 002 | 161 561 012 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 161 561 003 | 161 561 013 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 161 561 004 | 161 561 014 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 161 561 005 | 161 561 015 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 561 006 | 161 561 016 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 561 007 | 161 561 017 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 161 561 008 | 161 561 018 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 561 009 | 161 561 019 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 161 561 010 | 161 561 020 | 238 | 301 | 164 | 174 | 4 |

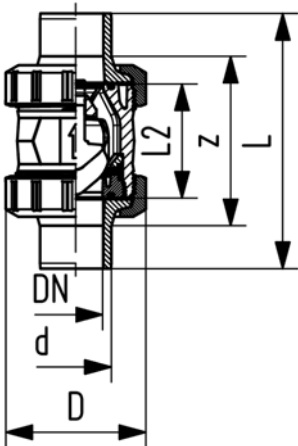
Check valve type 561 PVC-U With solvent cement spigots metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|--------|---------|----|--------------------------------------|-------------|-------------|--------|--------|---------|--------------|
| 16 | 10 | 16 | 190 | 161 561 041 | 161 561 051 | 50 | 114 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 161 561 042 | 161 561 052 | 50 | 124 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 161 561 043 | 161 561 053 | 58 | 144 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 161 561 044 | 161 561 054 | 68 | 154 | 71 | 1 |
| 40 | 32 | 16 | 850 | 161 561 045 | 161 561 055 | 84 | 174 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 561 046 | 161 561 056 | 97 | 194 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 561 047 | 161 561 057 | 124 | 224 | 101 | 2 |
| 75 | 65 | 16 | 2950 | 161 561 048 | 161 561 058 | 166 | 284 | 136 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 561 049 | 161 561 059 | 200 | 300 | 141 | 3 |
| 110 | 100 | 16 | 4150 | 161 561 050 | 161 561 060 | 238 | 340 | 164 | 4 |

PVC-U metric

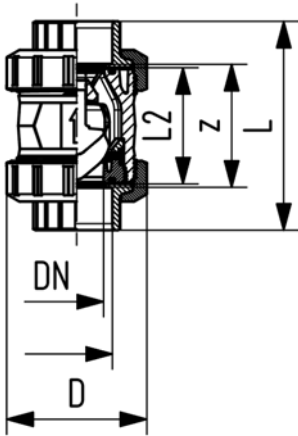
Check valve type 561 PVC-U With threaded sockets Rp



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 161 561 021 | 161 561 031 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 161 561 022 | 161 561 032 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 161 561 023 | 161 561 033 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 161 561 024 | 161 561 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 161 561 025 | 161 561 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 161 561 026 | 161 561 036 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 161 561 027 | 161 561 037 | 124 | 177 | 101 | 121 |
| 2 1/2 | 65 | 10 | 2950 | 161 561 028 | 161 561 038 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 161 561 029 | 161 561 039 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 161 561 030 | 161 561 040 | 238 | 301 | 164 | 174 |

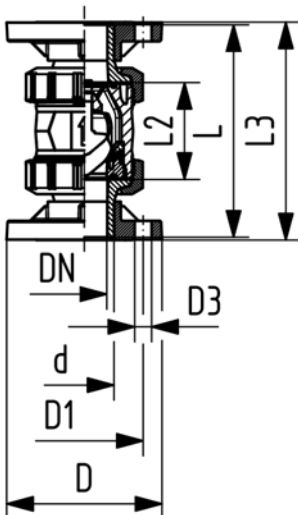
Check valve type 561 PVC-U With fixed flanges metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code |
|-----------|------------|----|--|--------------|-------------|
| 20 | 15 | 16 | 180 | 161 561 082 | 161 561 092 |
| 25 | 20 | 16 | 380 | 161 561 083 | 161 561 093 |
| 32 | 25 | 16 | 460 | 161 561 084 | 161 561 094 |
| 40 | 32 | 16 | 850 | 161 561 085 | 161 561 095 |
| 50 | 40 | 16 | 1080 | 161 561 086 | 161 561 096 |
| 63 | 50 | 16 | 1670 | 161 561 087 | 161 561 097 |

| d [mm] | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 95 | 65 | 14 | 124 | 56 | 130 | 1/2 |
| 25 | 105 | 75 | 14 | 144 | 65 | 150 | 3/4 |
| 32 | 115 | 85 | 14 | 154 | 71 | 160 | 1 |
| 40 | 140 | 100 | 18 | 174 | 85 | 180 | 1 1/4 |
| 50 | 150 | 110 | 18 | 194 | 89 | 200 | 1 1/2 |
| 63 | 165 | 125 | 18 | 224 | 101 | 230 | 2 |

PVC-U metric

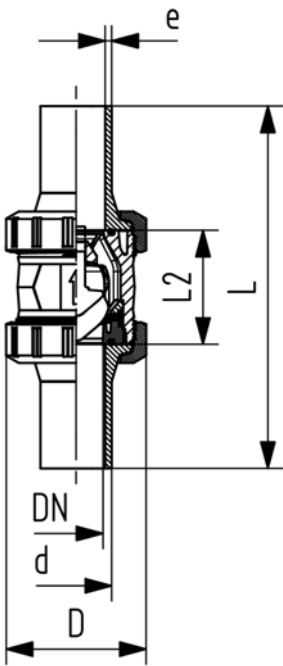
Check valve type 561 PVC-U With butt fusion spigots long PE100 SDR11 metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 16 | 180 | 161 561 142 | 50 | 193 | 56 | 2.3 | ½ |
| 25 | 20 | 16 | 380 | 161 561 143 | 58 | 216 | 65 | 2.3 | ¾ |
| 32 | 25 | 16 | 460 | 161 561 144 | 68 | 223 | 71 | 3.0 | 1 |
| 40 | 32 | 16 | 850 | 161 561 145 | 84 | 249 | 85 | 3.7 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 161 561 146 | 97 | 271 | 89 | 4.6 | 1 ½ |
| 63 | 50 | 16 | 1670 | 161 561 147 | 124 | 321 | 101 | 5.8 | 2 |

PVC-U metric

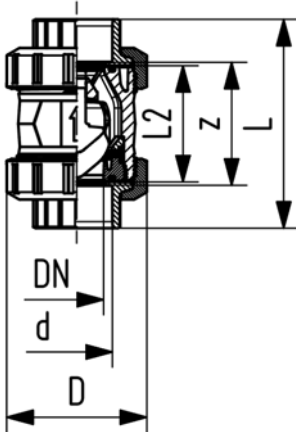
Check valve type 562 PVC-U With solvent cement sockets metric



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 161 562 001 | 161 562 011 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 161 562 002 | 161 562 012 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 161 562 003 | 161 562 013 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 161 562 004 | 161 562 014 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 161 562 005 | 161 562 015 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 562 006 | 161 562 016 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 562 007 | 161 562 017 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 161 562 008 | 161 562 018 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 562 009 | 161 562 019 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 161 562 010 | 161 562 020 | 238 | 301 | 164 | 174 | 4 |

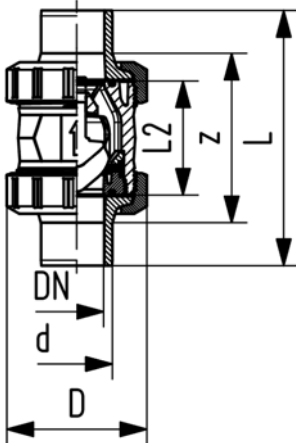
Check valve type 562 PVC-U With solvent cement spigots metric



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

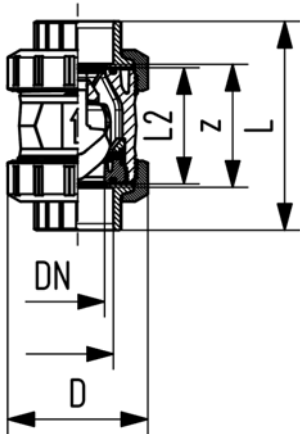
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 16 | 190 | 161 562 041 | 161 562 051 | 50 | 114 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 161 562 042 | 161 562 052 | 50 | 124 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 161 562 043 | 161 562 053 | 58 | 144 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 161 562 044 | 161 562 054 | 68 | 154 | 71 | 1 |
| 40 | 32 | 16 | 850 | 161 562 045 | 161 562 055 | 84 | 174 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 562 046 | 161 562 056 | 97 | 194 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 562 047 | 161 562 057 | 124 | 224 | 101 | 2 |
| 75 | 65 | 16 | 2950 | 161 562 048 | 161 562 058 | 166 | 284 | 136 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 562 049 | 161 562 059 | 200 | 300 | 141 | 3 |
| 110 | 100 | 16 | 4150 | 161 562 050 | 161 562 060 | 238 | 340 | 164 | 4 |

PVC-U metric

Check valve type 562 PVC-U With threaded sockets Rp



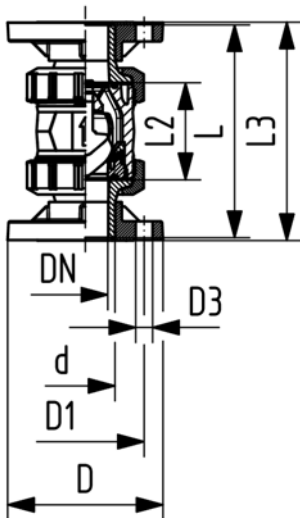
Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 161 562 021 | 161 562 031 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 161 562 022 | 161 562 032 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 161 562 023 | 161 562 033 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 161 562 024 | 161 562 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 161 562 025 | 161 562 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 161 562 026 | 161 562 036 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 161 562 027 | 161 562 037 | 124 | 177 | 101 | 121 |
| 2 1/2 | 65 | 10 | 2950 | 161 562 028 | 161 562 038 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 161 562 029 | 161 562 039 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 161 562 030 | 161 562 040 | 238 | 301 | 164 | 174 |

Check valve type 562 PVC-U With fixed flanges metric



Model:

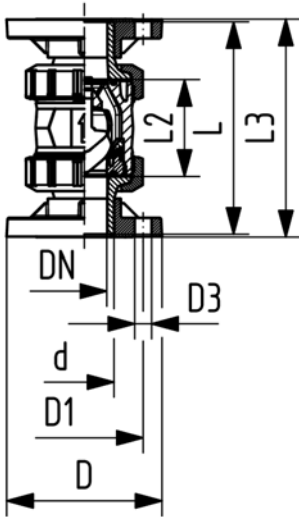
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code |
|-----------|------------|----|--|--------------|-------------|
| 20 | 15 | 16 | 180 | 161 562 082 | 161 562 092 |
| 25 | 20 | 16 | 380 | 161 562 083 | 161 562 093 |
| 32 | 25 | 16 | 460 | 161 562 084 | 161 562 094 |
| 40 | 32 | 16 | 850 | 161 562 085 | 161 562 095 |
| 50 | 40 | 16 | 1080 | 161 562 086 | 161 562 096 |
| 63 | 50 | 16 | 1670 | 161 562 087 | 161 562 097 |

table continued next page

PVC-U metric



| d [mm] | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 95 | 65 | 14 | 124 | 56 | 130 | ½ |
| 25 | 105 | 75 | 14 | 144 | 65 | 150 | ¾ |
| 32 | 115 | 85 | 14 | 154 | 71 | 160 | 1 |
| 40 | 140 | 100 | 18 | 174 | 85 | 180 | 1 ¼ |
| 50 | 150 | 110 | 18 | 194 | 89 | 200 | 1 ½ |
| 63 | 165 | 125 | 18 | 224 | 101 | 230 | 2 |



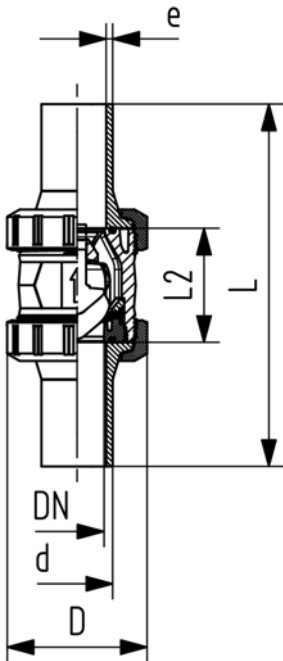
Check valve type 562 PVC-U With butt fusion spigots long PE100 SDR11 metric



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 16 | 180 | 161 562 142 | 50 | 193 | 56 | 2.3 | ½ |
| 25 | 20 | 16 | 380 | 161 562 143 | 58 | 216 | 65 | 2.3 | ¾ |
| 32 | 25 | 16 | 460 | 161 562 144 | 68 | 223 | 71 | 3.0 | 1 |
| 40 | 32 | 16 | 850 | 161 562 145 | 84 | 249 | 85 | 3.7 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 161 562 146 | 97 | 271 | 89 | 4.6 | 1 ½ |
| 63 | 50 | 16 | 1670 | 161 562 147 | 124 | 321 | 101 | 5.8 | 2 |

PVC-U metric silicone free Paintcompatible and oil free Cone check valves

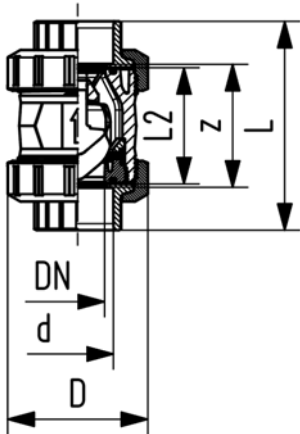
Check valve type 561 PVC-U SF With solvent cement sockets metric



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 161 561 201 | 161 561 211 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 161 561 202 | 161 561 212 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 161 561 203 | 161 561 213 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 161 561 204 | 161 561 214 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 161 561 205 | 161 561 215 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 561 206 | 161 561 216 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 561 207 | 161 561 217 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 161 561 208 | 161 561 218 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 561 209 | 161 561 219 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 161 561 210 | 161 561 220 | 238 | 301 | 164 | 174 | 4 |

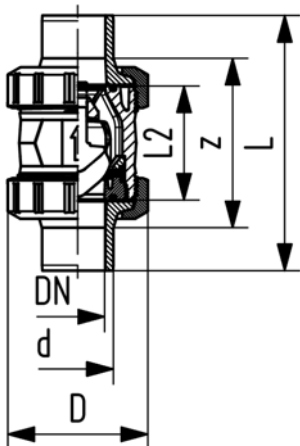
Check valve type 561 PVC-U SF With solvent cement spigots metric



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

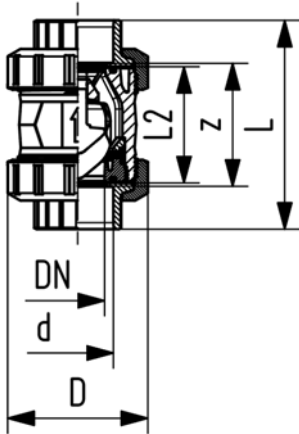
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 16 | 190 | 161 561 221 | 161 561 231 | 50 | 114 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 161 561 222 | 161 561 232 | 50 | 124 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 161 561 223 | 161 561 233 | 58 | 144 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 161 561 224 | 161 561 234 | 68 | 154 | 71 | 1 |
| 40 | 32 | 16 | 850 | 161 561 225 | 161 561 235 | 84 | 174 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 561 226 | 161 561 236 | 97 | 194 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 561 227 | 161 561 237 | 124 | 224 | 101 | 2 |
| 75 | 65 | 16 | 2950 | 161 561 228 | 161 561 238 | 166 | 284 | 136 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 561 229 | 161 561 239 | 200 | 300 | 141 | 3 |
| 110 | 100 | 16 | 4150 | 161 561 230 | 161 561 240 | 238 | 340 | 164 | 4 |

PVC-U metric silicone free

Paintcompatible and oil free Check valve type 562 PVC-U SF With solvent cement sockets metric



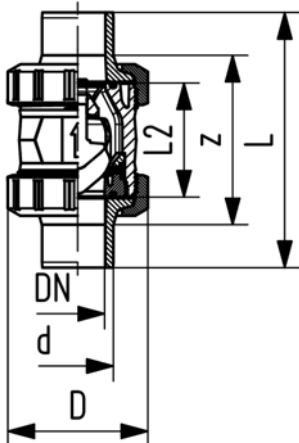
Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 161 562 201 | 161 562 211 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 161 562 202 | 161 562 212 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 161 562 203 | 161 562 213 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 161 562 204 | 161 562 214 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 161 562 205 | 161 562 215 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 562 206 | 161 562 216 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 562 207 | 161 562 217 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 161 562 208 | 161 562 218 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 562 209 | 161 562 219 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 161 562 210 | 161 562 220 | 238 | 301 | 164 | 174 | 4 |

Check valve type 562 PVC-U SF With solvent cement spigots metric



Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 16 | 190 | 161 562 221 | 161 562 231 | 50 | 114 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 161 562 222 | 161 562 232 | 50 | 124 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 161 562 223 | 161 562 233 | 58 | 144 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 161 562 224 | 161 562 234 | 68 | 154 | 71 | 1 |
| 40 | 32 | 16 | 850 | 161 562 225 | 161 562 235 | 84 | 174 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 161 562 226 | 161 562 236 | 97 | 194 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 161 562 227 | 161 562 237 | 124 | 224 | 101 | 2 |
| 75 | 65 | 16 | 2950 | 161 562 228 | 161 562 238 | 166 | 284 | 136 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 161 562 229 | 161 562 239 | 200 | 300 | 141 | 3 |
| 110 | 100 | 16 | 4150 | 161 562 230 | 161 562 240 | 238 | 340 | 164 | 4 |

PVC-U Inch BS

Cone check valves

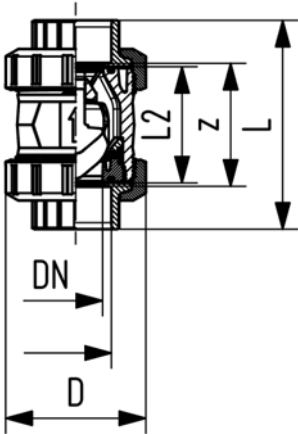
Check valve type 561 PVC-U With solvent cement sockets Inch BS



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|-------------|-------------|--------|--------|---------|--------|
| 3/8 | 10 | 16 | 190 | 161 561 061 | 161 561 071 | 50 | 92 | 56 | 60 |
| 1/2 | 15 | 16 | 180 | 161 561 062 | 161 561 072 | 50 | 95 | 56 | 60 |
| 3/4 | 20 | 16 | 380 | 161 561 063 | 161 561 073 | 58 | 110 | 65 | 69 |
| 1 | 25 | 16 | 460 | 161 561 064 | 161 561 074 | 68 | 123 | 71 | 75 |
| 1 1/4 | 32 | 16 | 850 | 161 561 065 | 161 561 075 | 84 | 146 | 85 | 89 |
| 1 1/2 | 40 | 16 | 1080 | 161 561 066 | 161 561 076 | 97 | 157 | 89 | 97 |
| 2 | 50 | 16 | 1670 | 161 561 067 | 161 561 077 | 124 | 183 | 101 | 110 |
| 2 1/2 | 65 | 16 | 2950 | 161 561 068 | 161 561 078 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 561 069 | 161 561 079 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 561 070 | 161 561 080 | 238 | 301 | 164 | 174 |

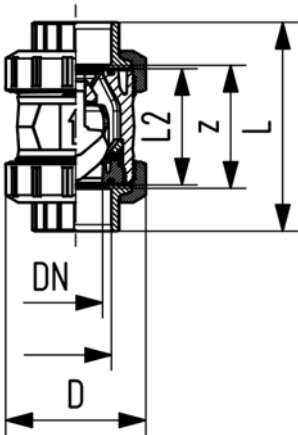
Check valve type 562 PVC-U With solvent cement sockets Inch BS



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|-------------|-------------|--------|--------|---------|--------|
| 3/8 | 10 | 16 | 190 | 161 562 061 | 161 562 071 | 50 | 92 | 56 | 60 |
| 1/2 | 15 | 16 | 180 | 161 562 062 | 161 562 072 | 50 | 95 | 56 | 60 |
| 3/4 | 20 | 16 | 380 | 161 562 063 | 161 562 073 | 58 | 110 | 65 | 69 |
| 1 | 25 | 16 | 460 | 161 562 064 | 161 562 074 | 68 | 123 | 71 | 75 |
| 1 1/4 | 32 | 16 | 850 | 161 562 065 | 161 562 075 | 84 | 146 | 85 | 89 |
| 1 1/2 | 40 | 16 | 1080 | 161 562 066 | 161 562 076 | 97 | 157 | 89 | 97 |
| 2 | 50 | 16 | 1670 | 161 562 067 | 161 562 077 | 124 | 183 | 101 | 110 |
| 2 1/2 | 65 | 16 | 2950 | 161 562 068 | 161 562 078 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 562 069 | 161 562 079 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 562 070 | 161 562 080 | 238 | 301 | 164 | 174 |

PVC-U ASTM/ANSI

Cone check valves

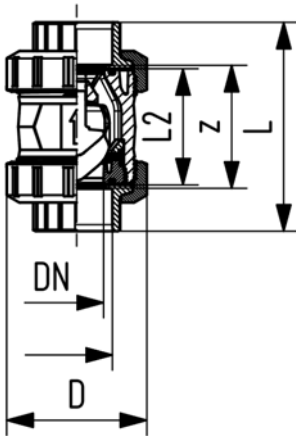
Check valve type 561 PVC-U With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 161 561 101 | 161 561 111 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 161 561 102 | 161 561 112 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 161 561 103 | 161 561 113 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 161 561 104 | 161 561 114 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 161 561 105 | 161 561 115 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 161 561 106 | 161 561 116 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 161 561 107 | 161 561 117 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 161 561 108 | 161 561 118 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 561 109 | 161 561 119 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 561 110 | 161 561 120 | 238 | 301 | 164 | 174 |

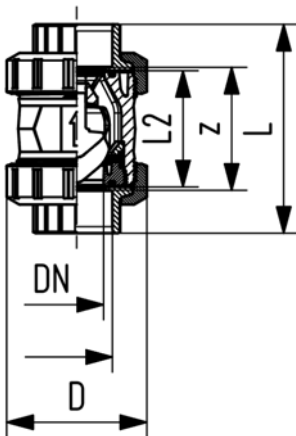
Check valve type 562 PVC-U With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 161 562 101 | 161 562 111 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 161 562 102 | 161 562 112 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 161 562 103 | 161 562 113 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 161 562 104 | 161 562 114 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 161 562 105 | 161 562 115 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 161 562 106 | 161 562 116 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 161 562 107 | 161 562 117 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 161 562 108 | 161 562 118 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 562 109 | 161 562 119 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 562 110 | 161 562 120 | 238 | 301 | 164 | 174 |

PVC-U ASTM/ANSI/BS

Silicone free/paintcompatible Cone check valves

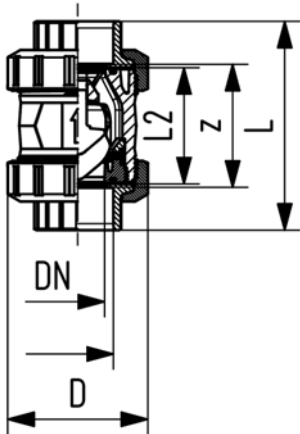
Check valve type 561 PVC-U SF With solvent cement sockets Inch ASTM



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 161 561 241 | 161 561 251 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 161 561 242 | 161 561 252 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 161 561 243 | 161 561 253 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 161 561 244 | 161 561 254 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 161 561 245 | 161 561 255 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 161 561 246 | 161 561 256 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 161 561 247 | 161 561 257 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 161 561 248 | 161 561 258 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 561 249 | 161 561 259 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 561 250 | 161 561 260 | 238 | 301 | 164 | 174 |

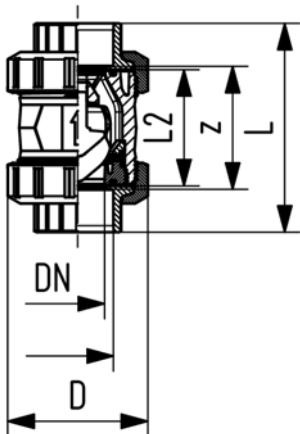
Check valve type 562 PVC-U SF With solvent cement sockets Inch ASTM



Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 161 562 241 | 161 562 251 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 161 562 242 | 161 562 252 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 161 562 243 | 161 562 253 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 161 562 244 | 161 562 254 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 161 562 245 | 161 562 255 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 161 562 246 | 161 562 256 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 161 562 247 | 161 562 257 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 161 562 248 | 161 562 258 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 562 249 | 161 562 259 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 562 250 | 161 562 260 | 238 | 301 | 164 | 174 |

PVC-U JIS

Cone check valves

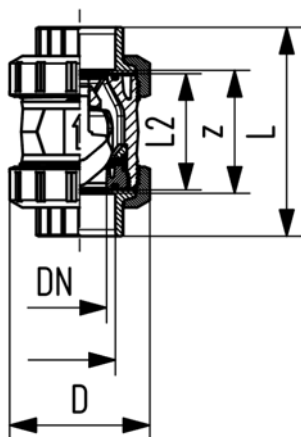
Check valve type 561 PVC-U With solvent cement sockets JIS



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|------------|----|--|--------------|-----------|-----------|------------|-----------|
| 1/2 | 15 | 16 | 180 | 161 561 302 | 50 | 95 | 56 | 64 |
| 3/4 | 20 | 16 | 380 | 161 561 303 | 58 | 110 | 65 | 72 |
| 1 | 25 | 16 | 460 | 161 561 304 | 68 | 123 | 71 | 79 |
| 1 1/4 | 32 | 16 | 850 | 161 561 305 | 84 | 146 | 85 | 94 |
| 1 1/2 | 40 | 16 | 1080 | 161 561 306 | 97 | 157 | 89 | 95 |
| 2 | 50 | 16 | 1670 | 161 561 307 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 161 561 308 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 561 309 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 561 310 | 238 | 301 | 164 | 174 |

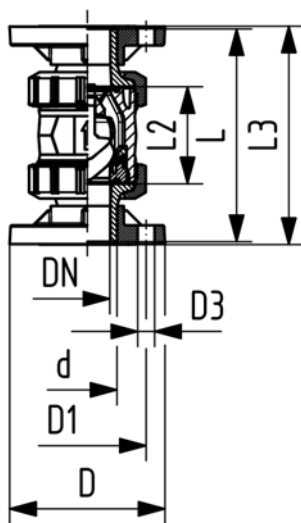
Check valve type 561 PVC-U With fixed flanges JIS



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] |
|-------|------------|----|--|--------------|-----------|------------|------------|-----------|------------|------------|
| 3/4 | 20 | 16 | 380 | 161 561 323 | 100 | 75 | 15 | 170 | 65 | 172 |
| 1 | 25 | 16 | 460 | 161 561 324 | 130 | 90 | 19 | 190 | 71 | 187 |
| 1 1/4 | 32 | 16 | 850 | 161 561 325 | 140 | 100 | 19 | 190 | 85 | 190 |
| 1 1/2 | 40 | 16 | 1080 | 161 561 326 | 140 | 105 | 19 | 210 | 89 | 212 |
| 2 | 50 | 16 | 1670 | 161 561 327 | 160 | 120 | 19 | 240 | 101 | 234 |

PVC-U JIS

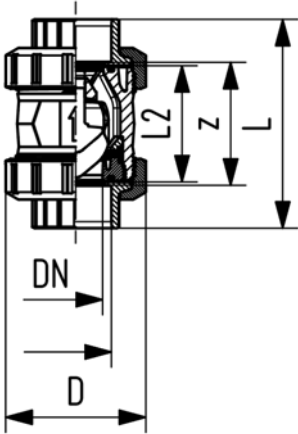
Check valve type 562 PVC-U With solvent cement sockets JIS



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|------|------------|----|--|--------------------|-----------|-----------|------------|-----------|
| ½ | 15 | 16 | 180 | 161 562 302 | 50 | 95 | 56 | 64 |
| ¾ | 20 | 16 | 380 | 161 562 303 | 58 | 110 | 65 | 72 |
| 1 | 25 | 16 | 460 | 161 562 304 | 68 | 123 | 71 | 79 |
| 1 ¼ | 32 | 16 | 850 | 161 562 305 | 84 | 146 | 85 | 94 |
| 1 ½ | 40 | 16 | 1080 | 161 562 306 | 97 | 157 | 89 | 95 |
| 2 | 50 | 16 | 1670 | 161 562 307 | 124 | 183 | 101 | 107 |
| 2 ½ | 65 | 16 | 2950 | 161 562 308 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 161 562 309 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 161 562 310 | 238 | 301 | 164 | 174 |

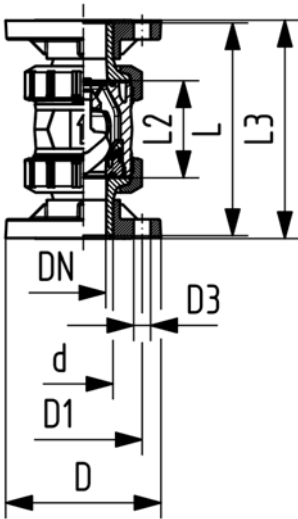
Check valve type 562 PVC-U With fixed flanges JIS



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] |
|------|------------|----|--|--------------------|-----------|------------|------------|-----------|------------|------------|
| ¾ | 20 | 16 | 380 | 161 562 323 | 100 | 75 | 15 | 170 | 65 | 172 |
| 1 | 25 | 16 | 460 | 161 562 324 | 130 | 90 | 19 | 190 | 71 | 187 |
| 1 ¼ | 32 | 16 | 850 | 161 562 325 | 140 | 100 | 19 | 190 | 85 | 190 |
| 1 ½ | 40 | 16 | 1080 | 161 562 326 | 140 | 105 | 19 | 210 | 89 | 212 |
| 2 | 50 | 16 | 1670 | 161 562 327 | 160 | 120 | 19 | 240 | 101 | 234 |

PVC-C metric

Cone check valves

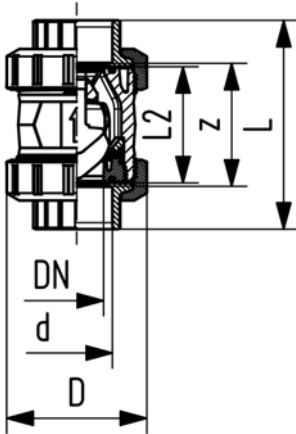
Check valve type 561 PVC-C With solvent cement sockets metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 163 561 001 | 163 561 011 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 163 561 002 | 163 561 012 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 163 561 003 | 163 561 013 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 163 561 004 | 163 561 014 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 163 561 005 | 163 561 015 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 163 561 006 | 163 561 016 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 163 561 007 | 163 561 017 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 163 561 008 | 163 561 018 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 163 561 009 | 163 561 019 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 163 561 010 | 163 561 020 | 238 | 301 | 164 | 174 | 4 |

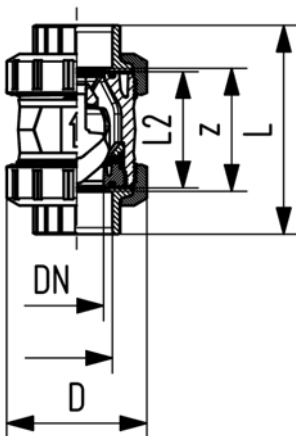
Check valve type 561 PVC-C With threaded sockets Rp



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 163 561 021 | 163 561 031 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 163 561 022 | 163 561 032 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 163 561 023 | 163 561 033 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 163 561 024 | 163 561 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 163 561 025 | 163 561 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 163 561 026 | 163 561 036 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 163 561 027 | 163 561 037 | 124 | 177 | 101 | 121 |
| 2 1/2 | 65 | 10 | 2950 | 163 561 028 | 163 561 038 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 163 561 029 | 163 561 039 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 163 561 030 | 163 561 040 | 238 | 301 | 164 | 174 |

PVC-C metric

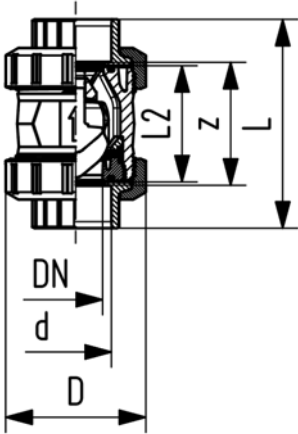
Check valve type 562 PVC-C With solvent cement sockets metric



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 163 562 001 | 163 562 011 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 163 562 002 | 163 562 012 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 163 562 003 | 163 562 013 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 163 562 004 | 163 562 014 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 163 562 005 | 163 562 015 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 163 562 006 | 163 562 016 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 163 562 007 | 163 562 017 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 163 562 008 | 163 562 018 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 163 562 009 | 163 562 019 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 163 562 010 | 163 562 020 | 238 | 301 | 164 | 174 | 4 |

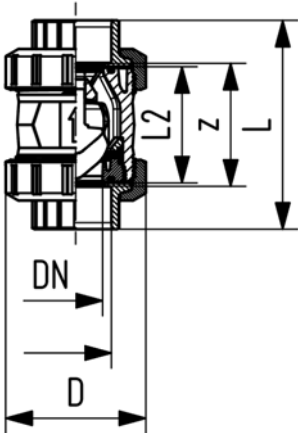
Check valve type 562 PVC-C With threaded sockets Rp



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 163 562 021 | 163 562 031 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 163 562 022 | 163 562 032 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 163 562 023 | 163 562 033 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 163 562 024 | 163 562 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 163 562 025 | 163 562 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 163 562 026 | 163 562 036 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 163 562 027 | 163 562 037 | 124 | 177 | 101 | 121 |
| 2 1/2 | 65 | 10 | 2950 | 163 562 028 | 163 562 038 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 163 562 029 | 163 562 039 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 163 562 030 | 163 562 040 | 238 | 301 | 164 | 174 |

PVC-C metric silicone free/paintcompatible

Cone check valves

Check valve type 561 PVC-C SF

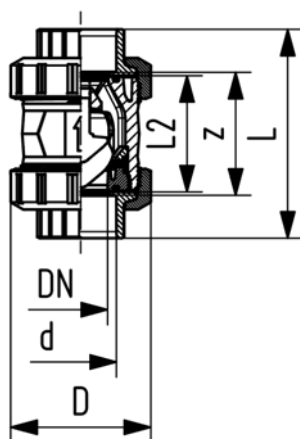
With solvent cement sockets metric



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 163 561 201 | 163 561 211 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 163 561 202 | 163 561 212 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 163 561 203 | 163 561 213 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 163 561 204 | 163 561 214 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 163 561 205 | 163 561 215 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 163 561 206 | 163 561 216 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 163 561 207 | 163 561 217 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 163 561 208 | 163 561 218 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 163 561 209 | 163 561 219 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 163 561 210 | 163 561 220 | 238 | 301 | 164 | 174 | 4 |

Check valve type 562 PVC-C SF

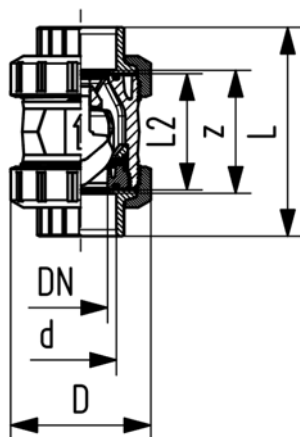
With solvent cement sockets metric



Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 163 562 201 | 163 562 211 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 16 | 180 | 163 562 202 | 163 562 212 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 16 | 380 | 163 562 203 | 163 562 213 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 16 | 460 | 163 562 204 | 163 562 214 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 16 | 850 | 163 562 205 | 163 562 215 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 163 562 206 | 163 562 216 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 163 562 207 | 163 562 217 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 16 | 2950 | 163 562 208 | 163 562 218 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 16 | 3600 | 163 562 209 | 163 562 219 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 16 | 4150 | 163 562 210 | 163 562 220 | 238 | 301 | 164 | 174 | 4 |

PVC-C ASTM/ANSI/BS

Cone check valves

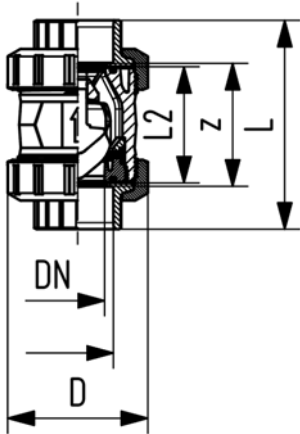
Check valve type 561 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 163 561 101 | 163 561 111 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 163 561 102 | 163 561 112 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 163 561 103 | 163 561 113 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 163 561 104 | 163 561 114 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 163 561 105 | 163 561 115 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 163 561 106 | 163 561 116 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 163 561 107 | 163 561 117 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 163 561 108 | 163 561 118 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 163 561 109 | 163 561 119 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 163 561 110 | 163 561 120 | 238 | 301 | 164 | 174 |

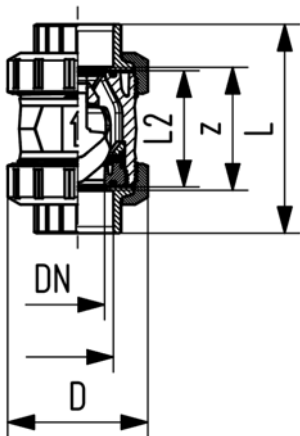
Check valve type 562 PVC-C With solvent cement sockets Inch ASTM Inclusive 2 threaded valve ends NPT



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 16 | 190 | 163 562 101 | 163 562 111 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 163 562 102 | 163 562 112 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 163 562 103 | 163 562 113 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 163 562 104 | 163 562 114 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 163 562 105 | 163 562 115 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 163 562 106 | 163 562 116 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 163 562 107 | 163 562 117 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 163 562 108 | 163 562 118 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 163 562 109 | 163 562 119 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 163 562 110 | 163 562 120 | 238 | 301 | 164 | 174 |

PVC-C ASTM/ANSI silicone free

Paint compatible Cone check valves

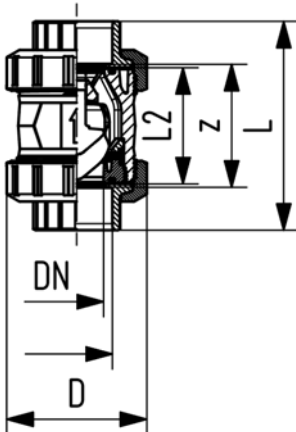
Check valve type 561 PVC-C SF With solvent cement sockets Inch ASTM



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|--------------------|--------------------|--------|--------|---------|--------|
| 3/8 | 10 | 16 | 190 | 163 561 241 | 163 561 251 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 163 561 242 | 163 561 252 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 163 561 243 | 163 561 253 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 163 561 244 | 163 561 254 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 163 561 245 | 163 561 255 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 163 561 246 | 163 561 256 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 163 561 247 | 163 561 257 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 163 561 248 | 163 561 258 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 163 561 249 | 163 561 259 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 163 561 250 | 163 561 260 | 238 | 301 | 164 | 174 |

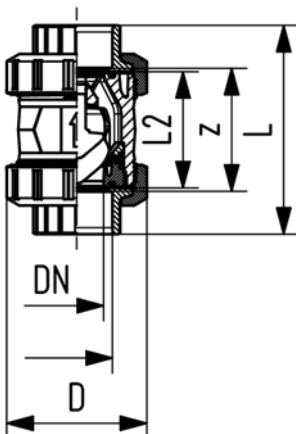
Check valve type 562 PVC-C SF With solvent cement sockets Inch ASTM



Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|--------------------|--------------------|--------|--------|---------|--------|
| 3/8 | 10 | 16 | 190 | 163 562 241 | 163 562 251 | 50 | 105 | 56 | 67 |
| 1/2 | 15 | 16 | 180 | 163 562 242 | 163 562 252 | 50 | 105 | 56 | 61 |
| 3/4 | 20 | 16 | 380 | 163 562 243 | 163 562 253 | 58 | 121 | 65 | 70 |
| 1 | 25 | 16 | 460 | 163 562 244 | 163 562 254 | 68 | 133 | 71 | 76 |
| 1 1/4 | 32 | 16 | 850 | 163 562 245 | 163 562 255 | 84 | 154 | 85 | 90 |
| 1 1/2 | 40 | 16 | 1080 | 163 562 246 | 163 562 256 | 97 | 164 | 89 | 94 |
| 2 | 50 | 16 | 1670 | 163 562 247 | 163 562 257 | 124 | 183 | 101 | 107 |
| 2 1/2 | 65 | 16 | 2950 | 163 562 248 | 163 562 258 | 166 | 233 | 136 | 144 |
| 3 | 80 | 16 | 3600 | 163 562 249 | 163 562 259 | 200 | 254 | 141 | 151 |
| 4 | 100 | 16 | 4150 | 163 562 250 | 163 562 260 | 238 | 301 | 164 | 174 |

ABS metric

Cone check valves

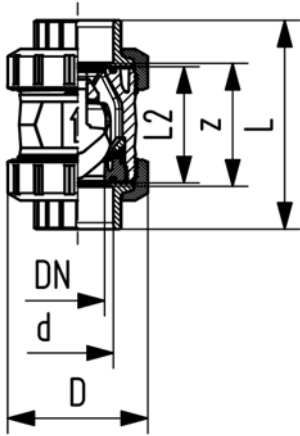
Check valve type 561 ABS With solvent cement sockets metric



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|--------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------|--------------|
| 16 | 10 | 10 | 190 | 169 561 001 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 10 | 180 | 169 561 002 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 10 | 380 | 169 561 003 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 10 | 460 | 169 561 004 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 10 | 850 | 169 561 005 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 169 561 006 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 169 561 007 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 10 | 2950 | 169 561 008 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 169 561 009 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 10 | 4150 | 169 561 010 | 238 | 301 | 164 | 174 | 4 |

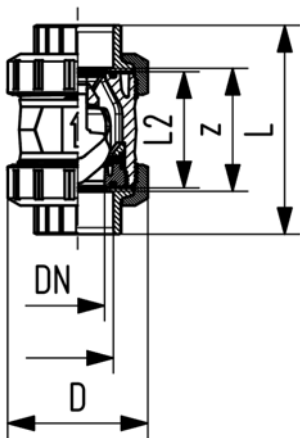
Check valve type 561 ABS With threaded sockets Rp



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-----------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------|
| 3/8 | 10 | 10 | 190 | 169 561 021 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 169 561 022 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 169 561 023 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 169 561 024 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 169 561 025 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 169 561 026 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 169 561 027 | 124 | 177 | 101 | 121 |

ABS metric

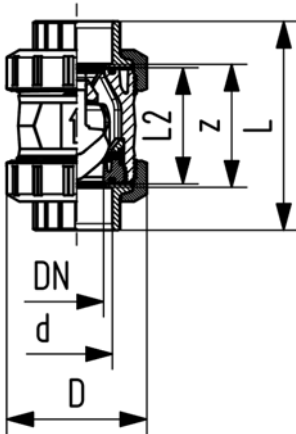
Check valve type 562 ABS With solvent cement sockets metric



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 169 562 001 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 10 | 180 | 169 562 002 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 10 | 380 | 169 562 003 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 10 | 460 | 169 562 004 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 10 | 850 | 169 562 005 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 169 562 006 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 169 562 007 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 10 | 2950 | 169 562 008 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 169 562 009 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 10 | 4150 | 169 562 010 | 238 | 301 | 164 | 174 | 4 |

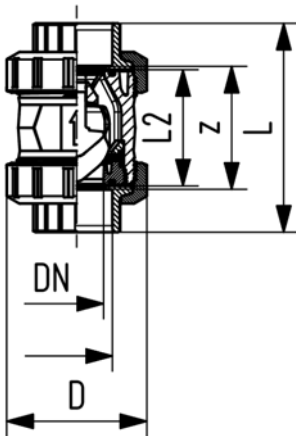
Check valve type 562 ABS With threaded sockets Rp



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 169 562 021 | 50 | 95 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 169 562 022 | 50 | 100 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 169 562 023 | 58 | 114 | 65 | 78 |
| 1 | 25 | 10 | 460 | 169 562 024 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 169 562 025 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 169 562 026 | 97 | 152 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 169 562 027 | 124 | 177 | 101 | 121 |

ABS silicone free/paint compatible

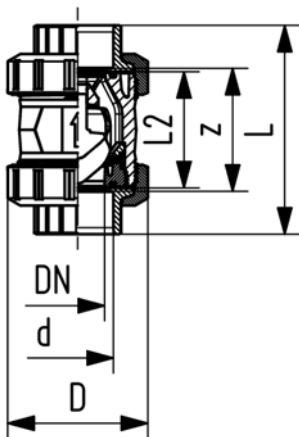
Cone check valves

Check valve type 561 ABS SF With solvent cement sockets metric



Model:

- Silicone free / paint-compatible
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



Available from 2nd quarter 2011

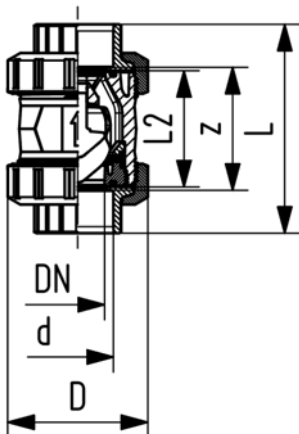
| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 169 561 201 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 10 | 180 | 169 561 202 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 10 | 380 | 169 561 203 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 10 | 460 | 169 561 204 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 10 | 850 | 169 561 205 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 169 561 206 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 169 561 207 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 10 | 2950 | 169 561 208 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 169 561 209 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 10 | 4150 | 169 561 210 | 238 | 301 | 164 | 174 | 4 |

Check valve type 562 ABS SF With solvent cement sockets metric



Model:

- Silicone free / paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 169 562 201 | 50 | 92 | 56 | 64 | 3/8 |
| 20 | 15 | 10 | 180 | 169 562 202 | 50 | 95 | 56 | 64 | 1/2 |
| 25 | 20 | 10 | 380 | 169 562 203 | 58 | 110 | 65 | 72 | 3/4 |
| 32 | 25 | 10 | 460 | 169 562 204 | 68 | 123 | 71 | 79 | 1 |
| 40 | 32 | 10 | 850 | 169 562 205 | 84 | 146 | 85 | 94 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 169 562 206 | 97 | 157 | 89 | 95 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 169 562 207 | 124 | 183 | 101 | 107 | 2 |
| 75 | 65 | 10 | 2950 | 169 562 208 | 166 | 233 | 136 | 144 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 169 562 209 | 200 | 254 | 141 | 151 | 3 |
| 110 | 100 | 10 | 4150 | 169 562 210 | 238 | 301 | 164 | 174 | 4 |

ABS Inch BS

Cone check valves

Check valve type 561 ABS

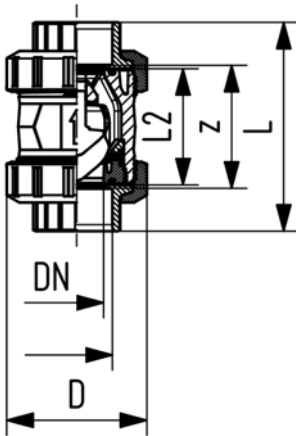
With solvent cement sockets Inch BS



Model:

- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------|
| 3/8 | 10 | 10 | 190 | 169 561 061 | 50 | 92 | 56 | 60 |
| 1/2 | 15 | 10 | 180 | 169 561 062 | 50 | 95 | 56 | 60 |
| 3/4 | 20 | 10 | 380 | 169 561 063 | 58 | 110 | 65 | 69 |
| 1 | 25 | 10 | 460 | 169 561 064 | 68 | 123 | 71 | 75 |
| 1 1/4 | 32 | 10 | 850 | 169 561 065 | 84 | 146 | 85 | 89 |
| 1 1/2 | 40 | 10 | 1080 | 169 561 066 | 97 | 157 | 89 | 97 |
| 2 | 50 | 10 | 1670 | 169 561 067 | 124 | 183 | 101 | 110 |
| 2 1/2 | 65 | 10 | 2950 | 169 561 068 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 169 561 069 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 169 561 070 | 238 | 301 | 164 | 174 |

Check valve type 562 ABS

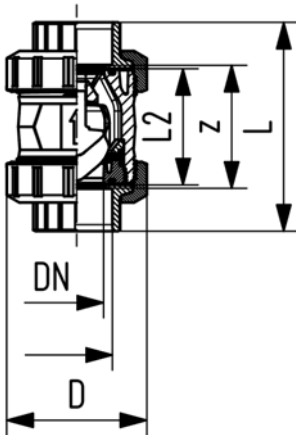
With solvent cement sockets Inch BS



Model:

- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| Inch | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|-------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------|
| 3/8 | 10 | 10 | 190 | 169 562 061 | 50 | 92 | 56 | 60 |
| 1/2 | 15 | 10 | 180 | 169 562 062 | 50 | 95 | 56 | 60 |
| 3/4 | 20 | 10 | 380 | 169 562 063 | 58 | 110 | 65 | 69 |
| 1 | 25 | 10 | 460 | 169 562 064 | 68 | 123 | 71 | 75 |
| 1 1/4 | 32 | 10 | 850 | 169 562 065 | 84 | 146 | 85 | 89 |
| 1 1/2 | 40 | 10 | 1080 | 169 562 066 | 97 | 157 | 89 | 97 |
| 2 | 50 | 10 | 1670 | 169 562 067 | 124 | 183 | 101 | 110 |
| 2 1/2 | 65 | 10 | 2950 | 169 562 068 | 166 | 233 | 136 | 144 |
| 3 | 80 | 10 | 3600 | 169 562 069 | 200 | 254 | 141 | 151 |
| 4 | 100 | 10 | 4150 | 169 562 070 | 238 | 301 | 164 | 174 |

PROGEF Standard metric

Cone check valves

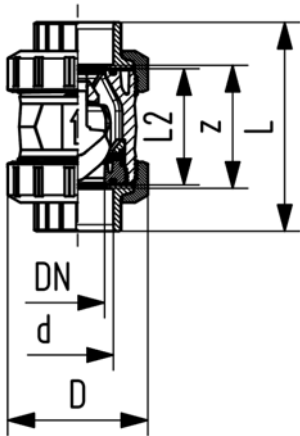
PROGEF Standard Check valve type 561 With fusion sockets metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 167 561 001 | 167 561 011 | 50 | 93 | 56 | 67 | 3/8 |
| 20 | 15 | 10 | 180 | 167 561 002 | 167 561 012 | 50 | 95 | 56 | 66 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 003 | 167 561 013 | 58 | 109 | 65 | 77 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 004 | 167 561 014 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 10 | 850 | 167 561 005 | 167 561 015 | 84 | 135 | 85 | 99 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 006 | 167 561 016 | 97 | 147 | 89 | 105 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 007 | 167 561 017 | 124 | 168 | 101 | 117 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 008 | 167 561 018 | 166 | 233 | 136 | 167 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 009 | 167 561 019 | 200 | 254 | 141 | 180 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 010 | 167 561 020 | 238 | 301 | 164 | 215 | 4 |

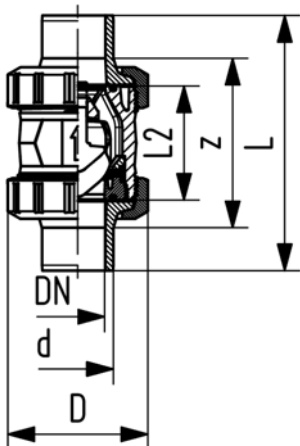
PROGEF Standard Check valve type 561 With socket fusion spigots metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 10 | 190 | 167 561 041 | 167 561 051 | 50 | 110 | 56 | 3/8 |
| 20 | 15 | 10 | 180 | 167 561 042 | 167 561 052 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 043 | 167 561 053 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 044 | 167 561 054 | 68 | 150 | 71 | 1 |
| 40 | 32 | 10 | 850 | 167 561 045 | 167 561 055 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 046 | 167 561 056 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 047 | 167 561 057 | 124 | 220 | 101 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 048 | 167 561 058 | 166 | 280 | 136 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 049 | 167 561 059 | 200 | 296 | 141 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 050 | 167 561 060 | 238 | 336 | 164 | 4 |

PROGEF Standard metric

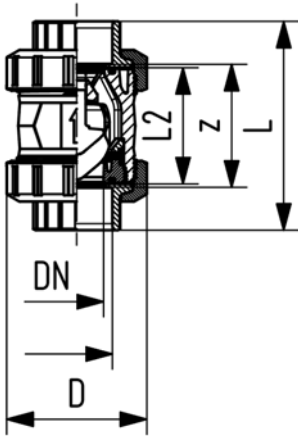
PROGEF Standard Check valve type 561 With threaded sockets reinforced Rp



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 167 561 021 | 167 561 031 | 50 | 96 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 167 561 022 | 167 561 032 | 50 | 99 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 167 561 023 | 167 561 033 | 58 | 111 | 65 | 78 |
| 1 | 25 | 10 | 460 | 167 561 024 | 167 561 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 167 561 025 | 167 561 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 167 561 026 | 167 561 036 | 97 | 157 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 167 561 027 | 167 561 037 | 124 | 183 | 101 | 121 |

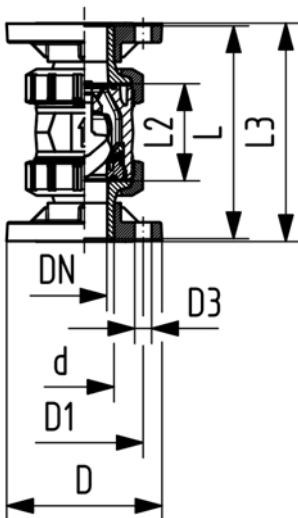
PROGEF Standard Check valve type 561 With fixed flanges metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Available from 2nd quarter 2011

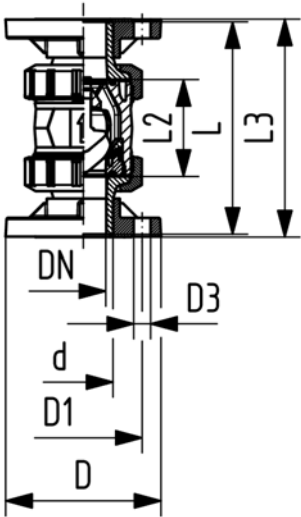


| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code |
|-----------|------------|----|--|--------------|-------------|
| 20 | 15 | 10 | 180 | 167 561 182 | 167 561 192 |
| 25 | 20 | 10 | 380 | 167 561 183 | 167 561 193 |
| 32 | 25 | 10 | 460 | 167 561 184 | 167 561 194 |
| 40 | 32 | 10 | 850 | 167 561 185 | 167 561 195 |
| 50 | 40 | 10 | 1080 | 167 561 186 | 167 561 196 |
| 63 | 50 | 10 | 1670 | 167 561 187 | 167 561 197 |

| d [mm] | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 95 | 65 | 14 | 120 | 56 | 130 | 1/2 |
| 25 | 105 | 75 | 14 | 140 | 65 | 150 | 3/4 |
| 32 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |

table continued next page

PROGEF Standard metric



| d [mm] | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 40 | 140 | 100 | 18 | 170 | 85 | 180 | 1 ¼ |
| 50 | 150 | 110 | 18 | 190 | 89 | 200 | 1 ½ |
| 63 | 165 | 125 | 18 | 220 | 101 | 230 | 2 |



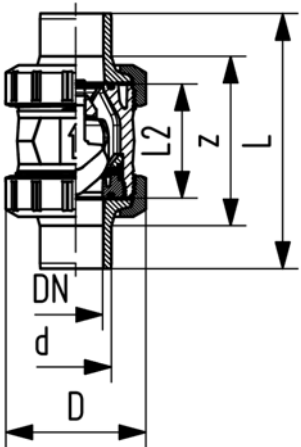
PROGEF Standard Check valve type 561 With butt fusion spigots SDR17,6 metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

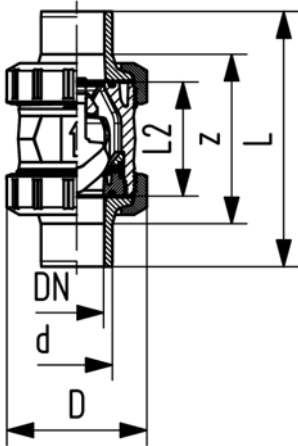
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 50 | 40 | 10 | 1080 | 167 561 066 | 167 561 076 | 97 | 191 | 89 | 2.9 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 561 067 | 167 561 077 | 124 | 220 | 101 | 3.6 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 068 | 167 561 078 | 166 | 266 | 136 | 4.7 | 2 ½ |
| 90 | 80 | 10 | 3600 | 167 561 069 | 167 561 079 | 200 | 264 | 141 | 5.5 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 070 | 167 561 080 | 238 | 301 | 164 | 6.8 | 4 |

PROGEF Standard metric

PROGEF Standard Check valve type 561 With butt fusion spigots IR-Plus SDR11 metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 10 | 180 | 167 561 082 | 167 561 092 | 50 | 130 | 56 | 1.9 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 083 | 167 561 093 | 58 | 143 | 65 | 2.3 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 084 | 167 561 094 | 68 | 150 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 561 085 | 167 561 095 | 84 | 171 | 85 | 3.7 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 086 | 167 561 096 | 97 | 191 | 89 | 4.6 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 087 | 167 561 097 | 124 | 220 | 101 | 5.8 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 088 | 167 561 098 | 166 | 266 | 136 | 8.2 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 089 | 167 561 099 | 200 | 264 | 141 | 9.9 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 090 | 167 561 100 | 238 | 301 | 164 | 12.0 | 4 |

PROGEF Standard metric

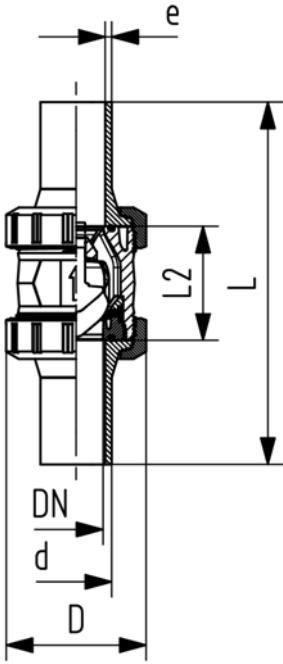
PROGEF Standard Check valve type 561 With butt fusion spigots long PE100 SDR11 metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 10 | 180 | 167 561 282 | 167 561 292 | 50 | 193 | 56 | 2.3 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 283 | 167 561 293 | 58 | 216 | 65 | 2.3 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 284 | 167 561 294 | 68 | 223 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 561 285 | 167 561 295 | 84 | 249 | 85 | 3.7 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 286 | 167 561 296 | 97 | 271 | 89 | 4.6 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 287 | 167 561 297 | 124 | 321 | 101 | 5.8 | 2 |

PROGEF Standard metric

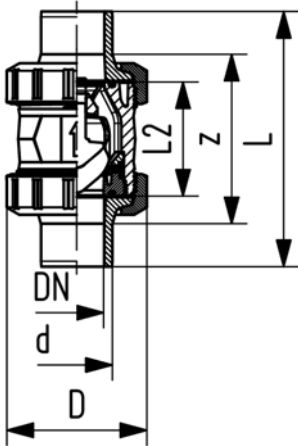
PROGEF Standard Check valve type 561 With butt fusion spigots PE100 SDR17,6 metric



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 50 | 40 | 10 | 1080 | 167 561 266 | 167 561 276 | 97 | 191 | 89 | 2.9 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 561 267 | 167 561 277 | 124 | 220 | 101 | 3.6 | 2 |

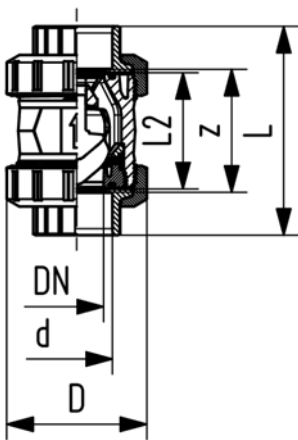
PROGEF Standard Check valve type 562 With fusion sockets metric



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

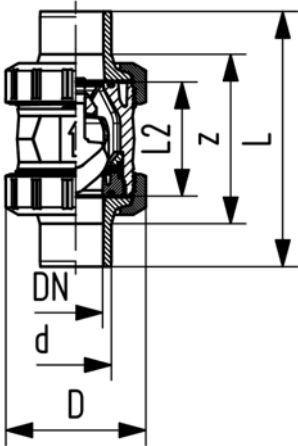
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 167 562 001 | 167 562 011 | 50 | 93 | 56 | 67 | ¾ |
| 20 | 15 | 10 | 180 | 167 562 002 | 167 562 012 | 50 | 95 | 56 | 66 | ½ |
| 25 | 20 | 10 | 380 | 167 562 003 | 167 562 013 | 58 | 109 | 65 | 77 | ¾ |
| 32 | 25 | 10 | 460 | 167 562 004 | 167 562 014 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 10 | 850 | 167 562 005 | 167 562 015 | 84 | 135 | 85 | 99 | 1 ¼ |
| 50 | 40 | 10 | 1080 | 167 562 006 | 167 562 016 | 97 | 147 | 89 | 105 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 562 007 | 167 562 017 | 124 | 168 | 101 | 117 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 008 | 167 562 018 | 166 | 233 | 136 | 167 | 2 ½ |
| 90 | 80 | 10 | 3600 | 167 562 009 | 167 562 019 | 200 | 254 | 141 | 180 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 010 | 167 562 020 | 238 | 301 | 164 | 215 | 4 |

PROGEF Standard metric

PROGEF Standard Check valve type 562 With socket fusion spigots metric



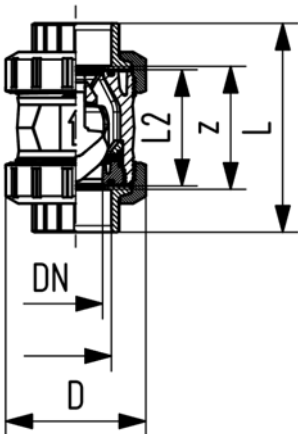
Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 10 | 190 | 167 562 041 | 167 562 051 | 50 | 110 | 56 | 3/8 |
| 20 | 15 | 10 | 180 | 167 562 042 | 167 562 052 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 10 | 380 | 167 562 043 | 167 562 053 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 10 | 460 | 167 562 044 | 167 562 054 | 68 | 150 | 71 | 1 |
| 40 | 32 | 10 | 850 | 167 562 045 | 167 562 055 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 562 046 | 167 562 056 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 562 047 | 167 562 057 | 124 | 220 | 101 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 048 | 167 562 058 | 166 | 280 | 136 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 562 049 | 167 562 059 | 200 | 296 | 141 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 050 | 167 562 060 | 238 | 336 | 164 | 4 |

PROGEF Standard Check valve type 562 With threaded sockets reinforced Rp



Model:

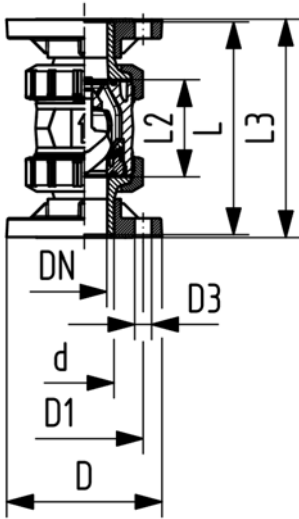
- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011

| Rp [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|--------------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 167 562 021 | 167 562 031 | 50 | 96 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 167 562 022 | 167 562 032 | 50 | 99 | 56 | 67 |
| 3/4 | 20 | 10 | 380 | 167 562 023 | 167 562 033 | 58 | 111 | 65 | 78 |
| 1 | 25 | 10 | 460 | 167 562 024 | 167 562 034 | 68 | 127 | 71 | 85 |
| 1 1/4 | 32 | 10 | 850 | 167 562 025 | 167 562 035 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 167 562 026 | 167 562 036 | 97 | 157 | 89 | 106 |
| 2 | 50 | 10 | 1670 | 167 562 027 | 167 562 037 | 124 | 183 | 101 | 121 |

PROGEF Standard metric

PROGEF Standard Check valve type 562 With fixed flanges metric



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

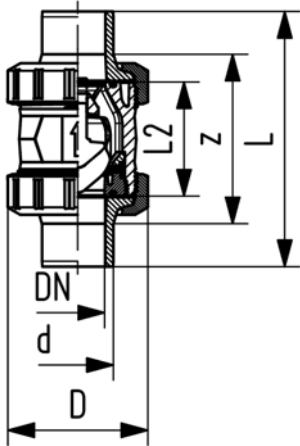
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code |
|-----------|------------|----|--|--------------------|--------------------|
| 20 | 15 | 10 | 180 | 167 562 182 | 167 562 192 |
| 25 | 20 | 10 | 380 | 167 562 183 | 167 562 193 |
| 32 | 25 | 10 | 460 | 167 562 184 | 167 562 194 |
| 40 | 32 | 10 | 850 | 167 562 185 | 167 562 195 |
| 50 | 40 | 10 | 1080 | 167 562 186 | 167 562 196 |
| 63 | 50 | 10 | 1670 | 167 562 187 | 167 562 197 |

| d [mm] | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 95 | 65 | 14 | 120 | 56 | 130 | 1/2 |
| 25 | 105 | 75 | 14 | 140 | 65 | 150 | 3/4 |
| 32 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |
| 40 | 140 | 100 | 18 | 170 | 85 | 180 | 1 1/4 |
| 50 | 150 | 110 | 18 | 190 | 89 | 200 | 1 1/2 |
| 63 | 165 | 125 | 18 | 220 | 101 | 230 | 2 |

PROGEF Standard metric

PROGEF Standard Check valve type 562 With butt fusion spigots SDR17,6 metric



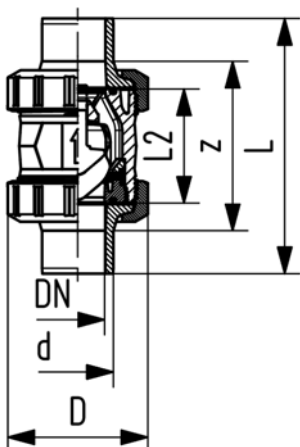
Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 50 | 40 | 10 | 1080 | 167 562 066 | 167 562 076 | 97 | 191 | 89 | 2.9 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 562 067 | 167 562 077 | 124 | 220 | 101 | 3.6 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 068 | 167 562 078 | 166 | 266 | 136 | 4.7 | 2 ½ |
| 90 | 80 | 10 | 3600 | 167 562 069 | 167 562 079 | 200 | 264 | 141 | 5.5 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 070 | 167 562 080 | 238 | 301 | 164 | 6.8 | 4 |

PROGEF Standard Check valve type 562 With butt fusion spigots IR-Plus SDR11 metric



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 10 | 180 | 167 562 082 | 167 562 092 | 50 | 130 | 56 | 1.9 | ¾ |
| 25 | 20 | 10 | 380 | 167 562 083 | 167 562 093 | 58 | 143 | 65 | 2.3 | ¾ |
| 32 | 25 | 10 | 460 | 167 562 084 | 167 562 094 | 68 | 150 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 562 085 | 167 562 095 | 84 | 171 | 85 | 3.7 | 1 ¼ |
| 50 | 40 | 10 | 1080 | 167 562 086 | 167 562 096 | 97 | 191 | 89 | 4.6 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 562 087 | 167 562 097 | 124 | 220 | 101 | 5.8 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 088 | 167 562 098 | 166 | 266 | 136 | 8.2 | 2 ½ |
| 90 | 80 | 10 | 3600 | 167 562 089 | 167 562 099 | 200 | 264 | 141 | 9.9 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 090 | 167 562 100 | 238 | 301 | 164 | 12.0 | 4 |

PROGEF Standard metric

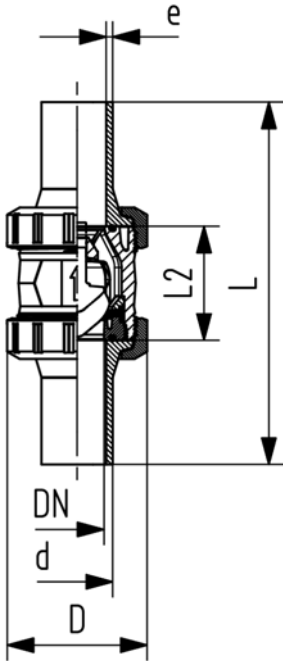
PROGEF Standard Check valve type 562 With butt fusion spigots long PE100 SDR11 metric



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 10 | 180 | 167 562 282 | 167 562 292 | 50 | 193 | 56 | 2.3 | 1/2 |
| 25 | 20 | 10 | 380 | 167 562 283 | 167 562 293 | 58 | 216 | 65 | 2.3 | 3/4 |
| 32 | 25 | 10 | 460 | 167 562 284 | 167 562 294 | 68 | 223 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 562 285 | 167 562 295 | 84 | 249 | 85 | 3.7 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 562 286 | 167 562 296 | 97 | 271 | 89 | 4.6 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 562 287 | 167 562 297 | 124 | 321 | 101 | 5.8 | 2 |

PROGEF Standard metric

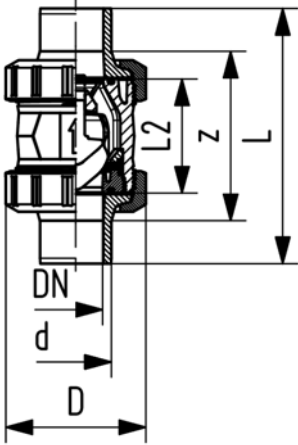
PROGEF Standard Check valve type 562 With butt fusion spigots PE100 SDR17,6 metric



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 50 | 40 | 10 | 1080 | 167 562 266 | 167 562 276 | 97 | 191 | 89 | 2.9 | 1 ½ |
| 63 | 50 | 10 | 1670 | 167 562 267 | 167 562 277 | 124 | 220 | 101 | 3.6 | 2 |

PROGEF Standard ASTM/ANSI

Cone check valves

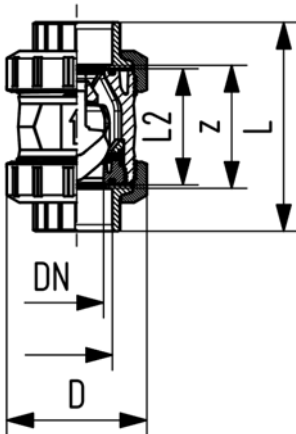
PROGEF Standard Check valve type 561 With threaded sockets reinforced NPT



Model:

- Material: PP-H
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 167 561 101 | 167 561 111 | 50 | 96 | 56 | 71 |
| 1/2 | 15 | 10 | 180 | 167 561 102 | 167 561 112 | 50 | 99 | 56 | 64 |
| 3/4 | 20 | 10 | 380 | 167 561 103 | 167 561 113 | 58 | 111 | 65 | 76 |
| 1 | 25 | 10 | 460 | 167 561 104 | 167 561 114 | 68 | 127 | 71 | 83 |
| 1 1/4 | 32 | 10 | 850 | 167 561 105 | 167 561 115 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 167 561 106 | 167 561 116 | 97 | 157 | 89 | 111 |
| 2 | 50 | 10 | 1670 | 167 561 107 | 167 561 117 | 124 | 183 | 101 | 134 |

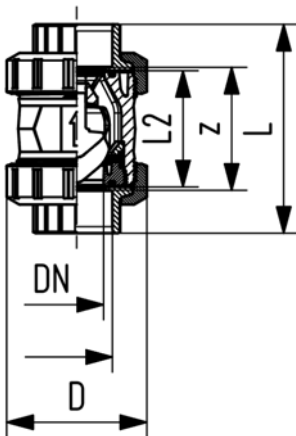
PROGEF Standard Check valve type 562 With threaded sockets reinforced NPT



Model:

- Material: PP-H
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Available from 2nd quarter 2011

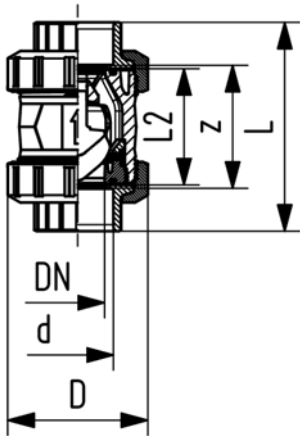


| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 167 562 101 | 167 562 111 | 50 | 96 | 56 | 71 |
| 1/2 | 15 | 10 | 180 | 167 562 102 | 167 562 112 | 50 | 99 | 56 | 64 |
| 3/4 | 20 | 10 | 380 | 167 562 103 | 167 562 113 | 58 | 111 | 65 | 76 |
| 1 | 25 | 10 | 460 | 167 562 104 | 167 562 114 | 68 | 127 | 71 | 83 |
| 1 1/4 | 32 | 10 | 850 | 167 562 105 | 167 562 115 | 84 | 146 | 85 | 100 |
| 1 1/2 | 40 | 10 | 1080 | 167 562 106 | 167 562 116 | 97 | 157 | 89 | 111 |
| 2 | 50 | 10 | 1670 | 167 562 107 | 167 562 117 | 124 | 183 | 101 | 134 |

PROGEF Plus metric/ASTM/ANSI/BS

Cone check valves

PROGEF Plus silicone free Check valve type 561 With fusion sockets metric



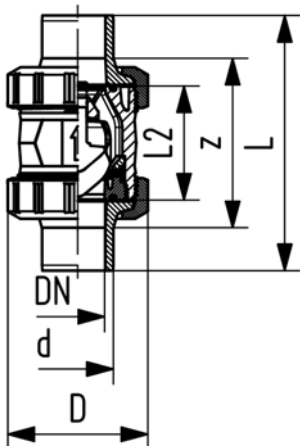
Model:

- Material: PP-H / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 10 | 190 | 167 561 201 | 167 561 211 | 50 | 93 | 56 | 67 | 3/8 |
| 20 | 15 | 10 | 180 | 167 561 202 | 167 561 212 | 50 | 95 | 56 | 66 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 203 | 167 561 213 | 58 | 109 | 65 | 77 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 204 | 167 561 214 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 10 | 850 | 167 561 205 | 167 561 215 | 84 | 135 | 85 | 99 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 206 | 167 561 216 | 97 | 147 | 89 | 105 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 207 | 167 561 217 | 124 | 168 | 101 | 117 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 208 | 167 561 218 | 166 | 233 | 136 | 167 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 209 | 167 561 219 | 200 | 254 | 141 | 180 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 210 | 167 561 220 | 238 | 301 | 164 | 215 | 4 |

PROGEF Plus silicone free Check valve type 561 With socket fusion spigots metric



Model:

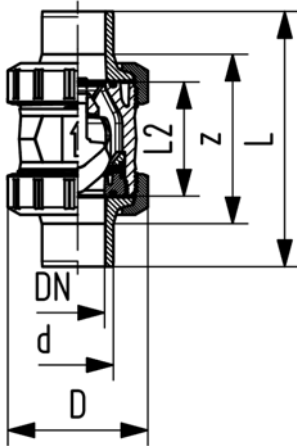
- Material: PP-H / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|------------|-----------------|
| 16 | 10 | 10 | 190 | 167 561 221 | 167 561 231 | 50 | 110 | 56 | | 3/8 |
| 20 | 15 | 10 | 180 | 167 561 222 | 167 561 232 | 50 | 120 | 56 | 130 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 223 | 167 561 233 | 58 | 139 | 65 | 150 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 224 | 167 561 234 | 68 | 150 | 71 | 160 | 1 |
| 40 | 32 | 10 | 850 | 167 561 225 | 167 561 235 | 84 | 170 | 85 | 180 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 226 | 167 561 236 | 97 | 190 | 89 | 200 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 227 | 167 561 237 | 124 | 220 | 101 | 230 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 228 | 167 561 238 | 166 | 280 | 136 | 290 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 229 | 167 561 239 | 200 | 296 | 141 | 310 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 230 | 167 561 240 | 238 | 336 | 164 | 350 | 4 |

PROGEF Plus metric/ASTM/ANSI/BS

PROGEF Plus silicone free Check valve type 561 With butt fusion spigots IR-Plus SDR11 metric



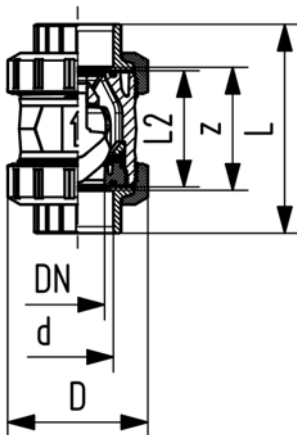
Model:

- Material: PP-H / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|--------|---------|----|--------------------------------------|--------------------|--------------------|--------|--------|---------|--------|--------------|
| 20 | 15 | 10 | 180 | 167 561 242 | 167 561 252 | 50 | 130 | 56 | 1.9 | 1/2 |
| 25 | 20 | 10 | 380 | 167 561 243 | 167 561 253 | 58 | 143 | 65 | 2.3 | 3/4 |
| 32 | 25 | 10 | 460 | 167 561 244 | 167 561 254 | 68 | 150 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 561 245 | 167 561 255 | 84 | 171 | 85 | 3.7 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 561 246 | 167 561 256 | 97 | 191 | 89 | 4.6 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 561 247 | 167 561 257 | 124 | 220 | 101 | 5.8 | 2 |
| 75 | 65 | 10 | 2950 | 167 561 248 | 167 561 258 | 166 | 266 | 136 | 8.2 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 561 249 | 167 561 259 | 200 | 264 | 141 | 9.9 | 3 |
| 110 | 100 | 10 | 4150 | 167 561 250 | 167 561 260 | 238 | 301 | 164 | 12.0 | 4 |

PROGEF Plus silicone free Check valve type 562 With fusion sockets metric



Model:

- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

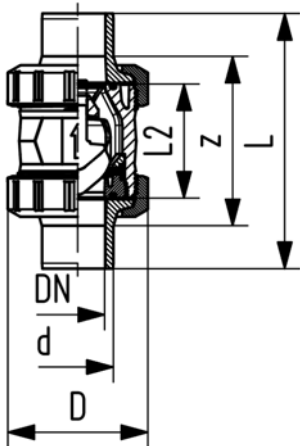
| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|--------|---------|----|--------------------------------------|--------------------|--------------------|--------|--------|---------|--------|--------------|
| 16 | 10 | 10 | 190 | 167 562 201 | 167 562 211 | 50 | 93 | 56 | 67 | 3/8 |
| 20 | 15 | 10 | 180 | 167 562 202 | 167 562 212 | 50 | 95 | 56 | 66 | 1/2 |
| 25 | 20 | 10 | 380 | 167 562 203 | 167 562 213 | 58 | 109 | 65 | 77 | 3/4 |
| 32 | 25 | 10 | 460 | 167 562 204 | 167 562 214 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 10 | 850 | 167 562 205 | 167 562 215 | 84 | 135 | 85 | 99 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 562 206 | 167 562 216 | 97 | 147 | 89 | 105 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 562 207 | 167 562 217 | 124 | 168 | 101 | 117 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 208 | 167 562 218 | 166 | 233 | 136 | 167 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 562 209 | 167 562 219 | 200 | 254 | 141 | 180 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 210 | 167 562 220 | 238 | 301 | 164 | 215 | 4 |

PROGEF Plus metric/ASTM/ANSI/BS

PROGEF Plus silicone free

Check valve type 562

With socket fusion spigots metric



Model:

- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

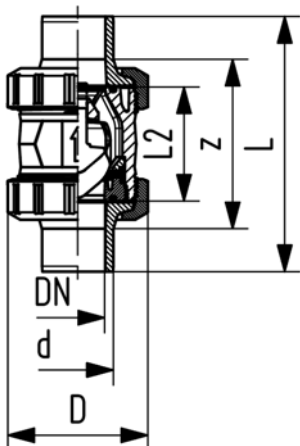
| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 10 | 190 | 167 562 221 | 167 562 231 | 50 | 110 | 56 | 3/8 |
| 20 | 15 | 10 | 180 | 167 562 222 | 167 562 232 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 10 | 380 | 167 562 223 | 167 562 233 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 10 | 460 | 167 562 224 | 167 562 234 | 68 | 150 | 71 | 1 |
| 40 | 32 | 10 | 850 | 167 562 225 | 167 562 235 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 562 226 | 167 562 236 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 562 227 | 167 562 237 | 124 | 220 | 101 | 2 |
| 75 | 65 | 10 | 2950 | 167 562 228 | 167 562 238 | 166 | 280 | 136 | 2 1/2 |
| 90 | 80 | 10 | 3600 | 167 562 229 | 167 562 239 | 200 | 296 | 141 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 230 | 167 562 240 | 238 | 336 | 164 | 4 |

PROGEF Plus silicone free

Check valve type 562

With butt fusion spigots IR-Plus

SDR11 metric



Model:

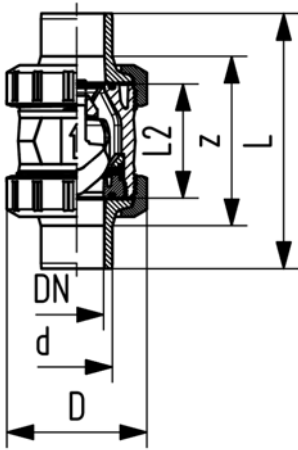
- Material: PP-H / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------|-------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 10 | 180 | 167 562 242 | 167 562 252 | 50 | 130 | 56 | 1.9 | 1/2 |
| 25 | 20 | 10 | 380 | 167 562 243 | 167 562 253 | 58 | 143 | 65 | 2.3 | 3/4 |
| 32 | 25 | 10 | 460 | 167 562 244 | 167 562 254 | 68 | 150 | 71 | 3.0 | 1 |
| 40 | 32 | 10 | 850 | 167 562 245 | 167 562 255 | 84 | 171 | 85 | 3.7 | 1 1/4 |
| 50 | 40 | 10 | 1080 | 167 562 246 | 167 562 256 | 97 | 191 | 89 | 4.6 | 1 1/2 |
| 63 | 50 | 10 | 1670 | 167 562 247 | 167 562 257 | 124 | 220 | 101 | 5.8 | 2 |

table continued next page

PROGEF Plus metric/ASTM/ANSI/BS



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | EPDM Code | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|--------------------|-----------|-----------|------------|-----------|-----------------|
| 75 | 65 | 10 | 2950 | 167 562 248 | 167 562 258 | 166 | 266 | 136 | 8.2 | 2 ½ |
| 90 | 80 | 10 | 3600 | 167 562 249 | 167 562 259 | 200 | 264 | 141 | 9.9 | 3 |
| 110 | 100 | 10 | 4150 | 167 562 250 | 167 562 260 | 238 | 301 | 164 | 12.0 | 4 |

SYGEF Standard metric/ASTM/ANSI

Cone check valves

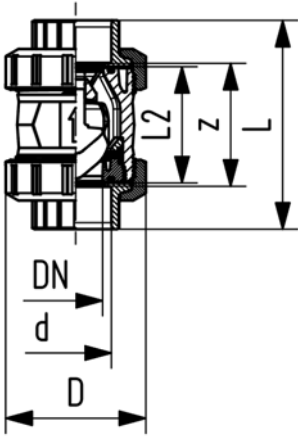
SYGEF Standard Check valve type 561 With fusion sockets metric



Model:

- Material: PVDF
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 175 561 011 | 50 | 93 | 56 | 67 | 3/8 |
| 20 | 15 | 16 | 180 | 175 561 012 | 50 | 95 | 56 | 66 | 1/2 |
| 25 | 20 | 16 | 380 | 175 561 013 | 58 | 109 | 65 | 77 | 3/4 |
| 32 | 25 | 16 | 460 | 175 561 014 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 16 | 850 | 175 561 015 | 84 | 135 | 85 | 99 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 561 016 | 97 | 147 | 89 | 105 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 561 017 | 124 | 168 | 101 | 117 | 2 |

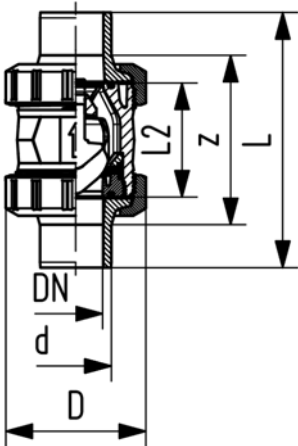
SYGEF Standard Check valve type 561 With socket fusion spigots metric



Model:

- Material: PVDF
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------------|
| 16 | 10 | 16 | 190 | 175 561 051 | 50 | 110 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 175 561 052 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 175 561 053 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 175 561 054 | 68 | 150 | 71 | 1 |
| 40 | 32 | 16 | 850 | 175 561 055 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 561 056 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 561 057 | 124 | 220 | 101 | 2 |

SYGEF Standard metric/ASTM/ANSI

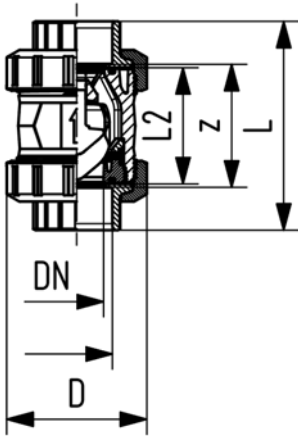
SYGEF Standard Check valve type 561 With threaded sockets NPT



Model:

- Material: PVDF
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|---------------|------------|----|--|--------------------|-----------|-----------|------------|-----------|
| 3/8 | 10 | 10 | 190 | 175 561 111 | 50 | 96 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 175 561 112 | 50 | 99 | 56 | 64 |
| 3/4 | 20 | 10 | 380 | 175 561 113 | 58 | 111 | 65 | 76 |
| 1 | 25 | 10 | 460 | 175 561 114 | 68 | 127 | 71 | 83 |
| 1 1/4 | 32 | 10 | 850 | 175 561 115 | 84 | 146 | 85 | 101 |
| 1 1/2 | 40 | 10 | 1080 | 175 561 116 | 97 | 157 | 89 | 111 |
| 2 | 50 | 10 | 1670 | 175 561 117 | 124 | 183 | 101 | 135 |

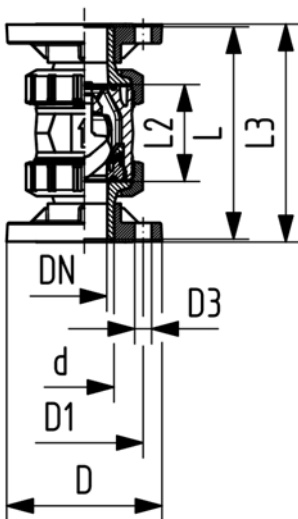
SYGEF Standard Check valve type 561 With fixed flanges metric



Model:

- Material: PVDF
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 15 | 16 | 180 | 175 561 192 | 93 | 65 | 14 | 120 | 56 | 130 | 1/2 |
| 25 | 20 | 16 | 380 | 175 561 193 | 103 | 75 | 14 | 140 | 65 | 150 | 3/4 |
| 32 | 25 | 16 | 460 | 175 561 194 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |
| 40 | 32 | 16 | 850 | 175 561 195 | 137 | 100 | 18 | 170 | 85 | 180 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 561 196 | 147 | 110 | 18 | 190 | 89 | 200 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 561 197 | 162 | 125 | 18 | 220 | 101 | 230 | 2 |

SYGEF Standard metric/ASTM/ANSI

SYGEF Standard

Check valve type 561

With butt fusion spigots IR-Plus metric

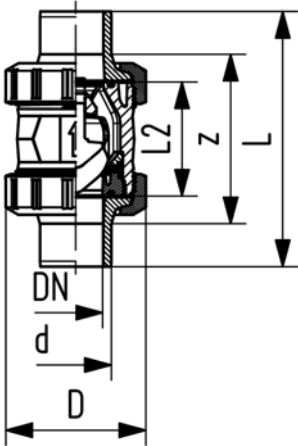


Model:

- Material: PVDF
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 16 | 180 | 175 561 092 | 50 | 130 | 56 | 1.9 | ½ |
| 25 | 20 | 16 | 380 | 175 561 093 | 58 | 143 | 65 | 1.9 | ¾ |
| 32 | 25 | 16 | 460 | 175 561 094 | 68 | 150 | 71 | 2.4 | 1 |
| 40 | 32 | 16 | 850 | 175 561 095 | 84 | 171 | 85 | 2.4 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 561 096 | 97 | 191 | 89 | 3.0 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 561 097 | 124 | 220 | 101 | 3.0 | 2 |

SYGEF Standard

Check valve type 562

With fusion sockets metric

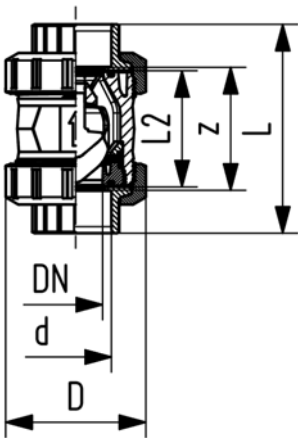


Model:

- Material: PVDF
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 175 562 011 | 50 | 93 | 56 | 67 | ¾ |
| 20 | 15 | 16 | 180 | 175 562 012 | 50 | 95 | 56 | 66 | ½ |
| 25 | 20 | 16 | 380 | 175 562 013 | 58 | 109 | 65 | 77 | ¾ |
| 32 | 25 | 16 | 460 | 175 562 014 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 16 | 850 | 175 562 015 | 84 | 135 | 85 | 99 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 562 016 | 97 | 147 | 89 | 105 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 562 017 | 124 | 168 | 101 | 117 | 2 |

SYGEF Standard metric/ASTM/ANSI

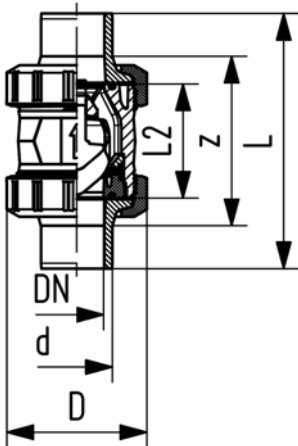
SYGEF Standard Check valve type 562 With socket fusion spigots metric



Model:

- Material: PVDF
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|--------|---------|----|--------------------------------------|-------------|--------|--------|---------|--------------|
| 16 | 10 | 16 | 190 | 175 562 051 | 50 | 110 | 56 | 3/8 |
| 20 | 15 | 16 | 180 | 175 562 052 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 175 562 053 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 175 562 054 | 68 | 150 | 71 | 1 |
| 40 | 32 | 16 | 850 | 175 562 055 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 562 056 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 562 057 | 124 | 220 | 101 | 2 |

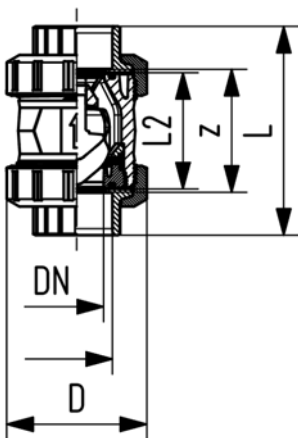
SYGEF Standard Check valve type 562 With threaded sockets NPT



Model:

- Material: PVDF
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

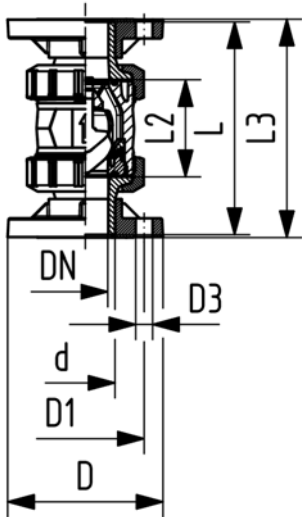
Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011



| NPT [inch] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] |
|------------|---------|----|--------------------------------------|-------------|--------|--------|---------|--------|
| 3/8 | 10 | 10 | 190 | 175 562 111 | 50 | 96 | 56 | 69 |
| 1/2 | 15 | 10 | 180 | 175 562 112 | 50 | 99 | 56 | 64 |
| 3/4 | 20 | 10 | 380 | 175 562 113 | 58 | 111 | 65 | 76 |
| 1 | 25 | 10 | 460 | 175 562 114 | 68 | 127 | 71 | 83 |
| 1 1/4 | 32 | 10 | 850 | 175 562 115 | 84 | 146 | 85 | 101 |
| 1 1/2 | 40 | 10 | 1080 | 175 562 116 | 97 | 157 | 89 | 111 |
| 2 | 50 | 10 | 1670 | 175 562 117 | 124 | 183 | 101 | 135 |

SYGEF Standard metric/ASTM/ANSI

SYGEF Standard Check valve type 562 With fixed flanges metric



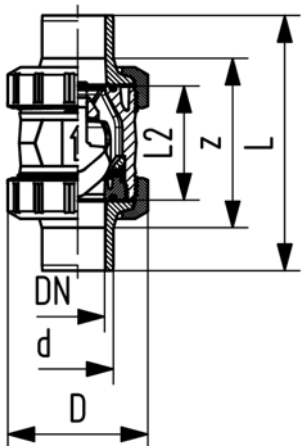
Model:

- Material: PVDF
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Installation length according to EN 558-1
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | D1 [mm] | D3 [mm] | L [mm] | L2 [mm] | L3 [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|------------|------------|-----------|------------|------------|-----------------|
| 20 | 15 | 16 | 180 | 175 562 192 | 93 | 65 | 14 | 120 | 56 | 130 | ½ |
| 25 | 20 | 16 | 380 | 175 562 193 | 103 | 75 | 14 | 140 | 65 | 150 | ¾ |
| 32 | 25 | 16 | 460 | 175 562 194 | 115 | 85 | 14 | 150 | 71 | 160 | 1 |
| 40 | 32 | 16 | 850 | 175 562 195 | 137 | 100 | 18 | 170 | 85 | 180 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 562 196 | 147 | 110 | 18 | 190 | 89 | 200 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 562 197 | 162 | 125 | 18 | 220 | 101 | 230 | 2 |

SYGEF Standard Check valve type 562 With butt fusion spigots IR-Plus metric



Model:

- Material: PVDF
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

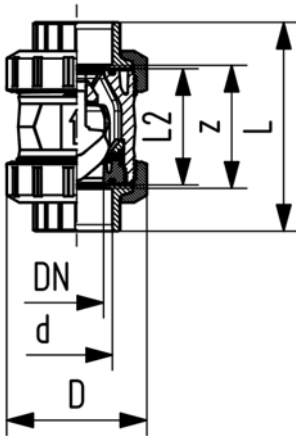
Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 16 | 180 | 175 562 092 | 50 | 130 | 56 | 1.9 | ½ |
| 25 | 20 | 16 | 380 | 175 562 093 | 58 | 143 | 65 | 1.9 | ¾ |
| 32 | 25 | 16 | 460 | 175 562 094 | 68 | 150 | 71 | 2.4 | 1 |
| 40 | 32 | 16 | 850 | 175 562 095 | 84 | 171 | 85 | 2.4 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 562 096 | 97 | 191 | 89 | 3.0 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 562 097 | 124 | 220 | 101 | 3.0 | 2 |

SYGEF Standard metric/ASTM/ANSI

Cone check valves silicone free

SYGEF Standard silicone free Check valve type 561 With fusion sockets metric



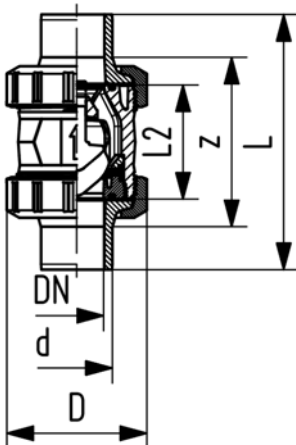
Model:

- Material: PVDF / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|--------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------|--------------|
| 16 | 10 | 16 | 190 | 175 561 211 | 50 | 93 | 56 | 67 | 3/8 |
| 20 | 15 | 16 | 180 | 175 561 212 | 50 | 95 | 56 | 66 | 1/2 |
| 25 | 20 | 16 | 380 | 175 561 213 | 58 | 109 | 65 | 77 | 3/4 |
| 32 | 25 | 16 | 460 | 175 561 214 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 16 | 850 | 175 561 215 | 84 | 135 | 85 | 99 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 561 216 | 97 | 147 | 89 | 105 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 561 217 | 124 | 168 | 101 | 117 | 2 |

SYGEF Standard silicone free Check valve type 561 With socket fusion spigots metric



Model:

- Material: PVDF / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|--------|---------|----|--------------------------------------|--------------------|--------|--------|---------|--------------|
| 20 | 15 | 16 | 180 | 175 561 232 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 175 561 233 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 175 561 234 | 68 | 150 | 71 | 1 |
| 40 | 32 | 16 | 850 | 175 561 235 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 561 236 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 561 237 | 124 | 220 | 101 | 2 |

SYGEF Standard metric/ASTM/ANSI

SYGEF Standard silicone free Check valve type 561 With butt fusion spigots IR-Plus metric

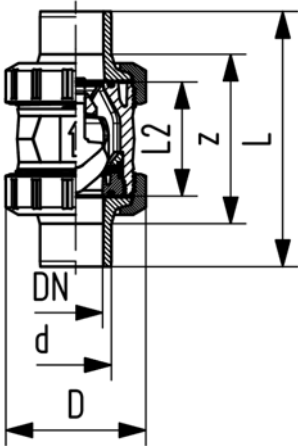


Model:

- Material: PVDF / silicone free cleaned
- Designed for easy installation and removal
- Sealing at a minimum water column of 2m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)

Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 20 | 15 | 16 | 180 | 175 561 272 | 50 | 130 | 56 | 1.9 | ½ |
| 25 | 20 | 16 | 380 | 175 561 273 | 58 | 143 | 65 | 1.9 | ¾ |
| 32 | 25 | 16 | 460 | 175 561 274 | 68 | 150 | 71 | 2.4 | 1 |
| 40 | 32 | 16 | 850 | 175 561 275 | 84 | 171 | 85 | 2.4 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 561 276 | 97 | 191 | 89 | 3.0 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 561 277 | 124 | 220 | 101 | 3.0 | 2 |

SYGEF Standard silicone free Check valve type 562 With fusion sockets metric

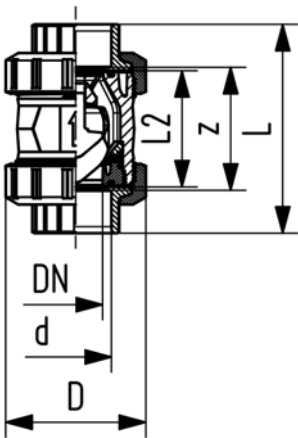


Model:

- Material: PVDF / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)

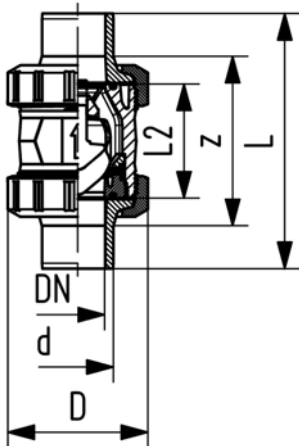
Available from 2nd quarter 2011



| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | z [mm] | closest inch |
|-----------|------------|----|--|--------------------|-----------|-----------|------------|-----------|-----------------|
| 16 | 10 | 16 | 190 | 175 562 211 | 50 | 93 | 56 | 67 | ¾ |
| 20 | 15 | 16 | 180 | 175 562 212 | 50 | 95 | 56 | 66 | ½ |
| 25 | 20 | 16 | 380 | 175 562 213 | 58 | 109 | 65 | 77 | ¾ |
| 32 | 25 | 16 | 460 | 175 562 214 | 68 | 119 | 71 | 83 | 1 |
| 40 | 32 | 16 | 850 | 175 562 215 | 84 | 135 | 85 | 99 | 1 ¼ |
| 50 | 40 | 16 | 1080 | 175 562 216 | 97 | 147 | 89 | 105 | 1 ½ |
| 63 | 50 | 16 | 1670 | 175 562 217 | 124 | 168 | 101 | 117 | 2 |

SYGEF Standard metric/ASTM/ANSI

SYGEF Standard silicone free Check valve type 562 With socket fusion spigots metric



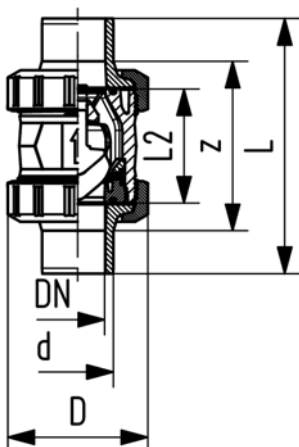
Model:

- Material: PVDF / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | closest inch |
|--------|---------|----|--------------------------------------|-------------|--------|--------|---------|--------------|
| 20 | 15 | 16 | 180 | 175 562 232 | 50 | 120 | 56 | 1/2 |
| 25 | 20 | 16 | 380 | 175 562 233 | 58 | 139 | 65 | 3/4 |
| 32 | 25 | 16 | 460 | 175 562 234 | 68 | 150 | 71 | 1 |
| 40 | 32 | 16 | 850 | 175 562 235 | 84 | 170 | 85 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 562 236 | 97 | 190 | 89 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 562 237 | 124 | 220 | 101 | 2 |

SYGEF Standard silicone free Check valve type 562 With butt fusion spigots IR-Plus metric



Model:

- Material: PVDF / silicone free cleaned
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Sealing at a minimum water column of 0.5m
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

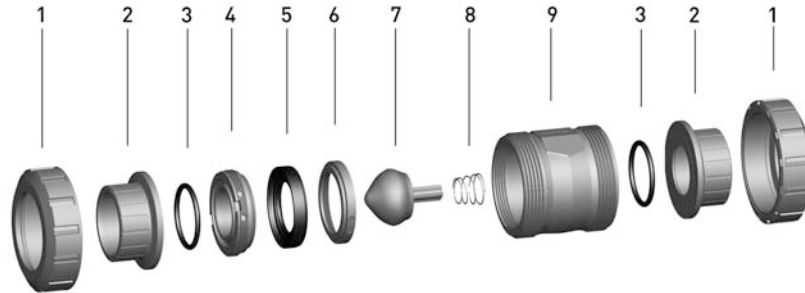
Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)
Available from 2nd quarter 2011

| d [mm] | DN [mm] | PN | kv-value ($\Delta p=1$ bar) [l/min] | FPM Code | D [mm] | L [mm] | L2 [mm] | e [mm] | closest inch |
|--------|---------|----|--------------------------------------|-------------|--------|--------|---------|--------|--------------|
| 20 | 15 | 16 | 180 | 175 562 272 | 50 | 130 | 56 | 1.9 | 1/2 |
| 25 | 20 | 16 | 380 | 175 562 273 | 58 | 143 | 65 | 1.9 | 3/4 |
| 32 | 25 | 16 | 460 | 175 562 274 | 68 | 150 | 71 | 2.4 | 1 |
| 40 | 32 | 16 | 850 | 175 562 275 | 84 | 171 | 85 | 2.4 | 1 1/4 |
| 50 | 40 | 16 | 1080 | 175 562 276 | 97 | 191 | 89 | 3.0 | 1 1/2 |
| 63 | 50 | 16 | 1670 | 175 562 277 | 124 | 220 | 101 | 3.0 | 2 |

Spare parts

Spare parts cone check valves

Spare parts cone check valve type 561/562



Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

| d [mm] | Inch | DN [mm] | PVC-U EPDM Code | PVC-U FPM Code | PVC-C EPDM Code | PVC-C FPM Code | ABS EPDM Code |
|--------|-------|---------|-----------------|----------------|-----------------|----------------|---------------|
| 16 | 3/8 | 10 | 161 485 201 | 161 485 211 | 163 485 201 | 163 485 211 | 169 485 201 |
| 20 | 1/2 | 15 | 161 485 201 | 161 485 211 | 163 485 201 | 163 485 211 | 169 485 201 |
| 25 | 3/4 | 20 | 161 485 202 | 161 485 212 | 163 485 202 | 163 485 212 | 169 485 202 |
| 32 | 1 | 25 | 161 485 203 | 161 485 213 | 163 485 203 | 163 485 213 | 169 485 203 |
| 40 | 1 1/4 | 32 | 161 485 204 | 161 485 214 | 163 485 204 | 163 485 214 | 169 485 204 |
| 50 | 1 1/2 | 40 | 161 485 205 | 161 485 215 | 163 485 205 | 163 485 215 | 169 485 205 |
| 63 | 2 | 50 | 161 485 206 | 161 485 216 | 163 485 206 | 163 485 216 | 169 485 206 |
| 75 | 2 1/2 | 65 | 161 485 207 | 161 485 217 | 163 485 207 | 163 485 217 | 169 485 207 |
| 90 | 3 | 80 | 161 485 208 | 161 485 218 | 163 485 208 | 163 485 218 | 169 485 208 |
| 110 | 4 | 100 | 161 485 209 | 161 485 219 | 163 485 209 | 163 485 219 | 169 485 209 |

| d [mm] | Inch | DN [mm] | PP-H EPDM Code | PP-H FPM Code | PVDF FPM Code |
|--------|-------|---------|----------------|---------------|---------------|
| 16 | 3/8 | 10 | 167 485 201 | 167 485 211 | 175 485 211 |
| 20 | 1/2 | 15 | 167 485 201 | 167 485 211 | 175 485 211 |
| 25 | 3/4 | 20 | 167 485 202 | 167 485 212 | 175 485 212 |
| 32 | 1 | 25 | 167 485 203 | 167 485 213 | 175 485 213 |
| 40 | 1 1/4 | 32 | 167 485 204 | 167 485 214 | 175 485 214 |
| 50 | 1 1/2 | 40 | 167 485 205 | 167 485 215 | 175 485 215 |
| 63 | 2 | 50 | 167 485 206 | 167 485 216 | 175 485 216 |
| 75 | 2 1/2 | 65 | 167 485 207 | 167 485 217 | 175 485 217 |
| 90 | 3 | 80 | 167 485 208 | 167 485 218 | 175 485 218 |
| 110 | 4 | 100 | 167 485 209 | 167 485 219 | 175 485 219 |



Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

| d [mm] | Inch | DN [mm] | PVC-U EPDM Code | PVC-U FPM Code | PVC-C EPDM Code | PVC-C FPM Code | ABS EPDM Code |
|--------|-------|---------|-----------------|----------------|-----------------|----------------|---------------|
| 16 | 3/8 | 10 | 161 485 221 | 161 485 231 | 163 485 221 | 163 485 231 | 169 485 221 |
| 20 | 1/2 | 15 | 161 485 221 | 161 485 231 | 163 485 221 | 163 485 231 | 169 485 221 |
| 25 | 3/4 | 20 | 161 485 222 | 161 485 232 | 163 485 222 | 163 485 232 | 169 485 222 |
| 32 | 1 | 25 | 161 485 223 | 161 485 233 | 163 485 223 | 163 485 233 | 169 485 223 |
| 40 | 1 1/4 | 32 | 161 485 224 | 161 485 234 | 163 485 224 | 163 485 234 | 169 485 224 |
| 50 | 1 1/2 | 40 | 161 485 225 | 161 485 235 | 163 485 225 | 163 485 235 | 169 485 225 |
| 63 | 2 | 50 | 161 485 226 | 161 485 236 | 163 485 226 | 163 485 236 | 169 485 226 |

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Spare parts

| d [mm] | Inch | DN [mm] | PVC-U EPDM Code | PVC-U FPM Code | PVC-C EPDM Code | PVC-C FPM Code | ABS EPDM Code |
|-----------|------|------------|--------------------|-------------------|--------------------|-------------------|------------------|
| 75 | 2 ½ | 65 | 161 485 227 | 161 485 237 | 163 485 227 | 163 485 237 | 169 485 227 |
| 90 | 3 | 80 | 161 485 228 | 161 485 238 | 163 485 228 | 163 485 238 | 169 485 228 |
| 110 | 4 | 100 | 161 485 229 | 161 485 239 | 163 485 229 | 163 485 239 | 169 485 229 |

| d [mm] | Inch | DN [mm] | PP-H EPDM Code | PP-H FPM Code | PVDF FPM Code |
|-----------|------|------------|-------------------|------------------|------------------|
| 16 | ¾ | 10 | 167 485 231 | 167 485 241 | 175 485 231 |
| 20 | ½ | 15 | 167 485 231 | 167 485 241 | 175 485 231 |
| 25 | ¾ | 20 | 167 485 232 | 167 485 242 | 175 485 232 |
| 32 | 1 | 25 | 167 485 233 | 167 485 243 | 175 485 233 |
| 40 | 1 ¼ | 32 | 167 485 234 | 167 485 244 | 175 485 234 |
| 50 | 1 ½ | 40 | 167 485 235 | 167 485 245 | 175 485 235 |
| 63 | 2 | 50 | 167 485 236 | 167 485 246 | 175 485 236 |
| 75 | 2 ½ | 65 | 167 485 237 | 167 485 247 | 175 485 237 |
| 90 | 3 | 80 | 167 485 238 | 167 485 248 | 175 485 238 |
| 110 | 4 | 100 | 167 485 239 | 167 485 249 | 175 485 239 |



Cone (7)

| d [mm] | Inch | DN [mm] | PVC-U Code | PVC-C Code | ABS Code | PP-H Code | PP-Talkum 20% Code |
|-----------|------|------------|---------------|---------------|-------------|--------------|-----------------------|
| 16 | ¾ | 10 | 161 491 151 | 163 482 151 | 169 482 151 | 167 485 151 | 167 485 351 |
| 20 | ½ | 15 | 161 491 151 | 163 482 151 | 169 482 151 | 167 485 151 | 167 485 351 |
| 25 | ¾ | 20 | 161 491 152 | 163 482 152 | 169 482 152 | 167 485 152 | 167 485 352 |
| 32 | 1 | 25 | 161 491 153 | 163 482 153 | 169 482 153 | 167 485 153 | 167 485 353 |
| 40 | 1 ¼ | 32 | 161 491 154 | 163 482 154 | 169 482 154 | 167 485 154 | 167 485 354 |
| 50 | 1 ½ | 40 | 161 491 155 | 163 482 155 | 169 482 155 | 167 485 155 | 167 485 355 |
| 63 | 2 | 50 | 161 491 156 | 163 482 156 | 169 482 156 | 167 485 156 | 167 485 356 |
| 75 | 2 ½ | 65 | 161 491 157 | 163 482 157 | 169 482 157 | 167 485 157 | 167 485 357 |
| 90 | 3 | 80 | 161 491 158 | 163 482 158 | 169 482 158 | 167 485 158 | 167 485 358 |
| 110 | 4 | 100 | 161 491 159 | 163 482 159 | 169 482 159 | 167 485 159 | 167 485 359 |

| d [mm] | Inch | DN [mm] | PVDF Code |
|-----------|------|------------|--------------|
| 16 | ¾ | 10 | 175 484 151 |
| 20 | ½ | 15 | 175 484 151 |
| 25 | ¾ | 20 | 175 484 152 |
| 32 | 1 | 25 | 175 484 153 |
| 40 | 1 ¼ | 32 | 175 484 154 |
| 50 | 1 ½ | 40 | 175 484 155 |
| 63 | 2 | 50 | 175 484 156 |
| 75 | 2 ½ | 65 | 175 484 157 |
| 90 | 3 | 80 | 175 484 158 |
| 110 | 4 | 100 | 175 484 159 |

Profile seal ring (5)

| d [mm] | Inch | DN [mm] | EPDM Code | FPM Code |
|-----------|------|------------|--------------|-------------|
| 16 | ¾ | 10 | 748 436 001 | 749 436 001 |
| 20 | ½ | 15 | 748 436 001 | 749 436 001 |
| 25 | ¾ | 20 | 748 436 002 | 749 436 002 |
| 32 | 1 | 25 | 748 436 003 | 749 436 003 |
| 40 | 1 ¼ | 32 | 748 436 004 | 749 436 004 |
| 50 | 1 ½ | 40 | 748 436 005 | 749 436 005 |
| 63 | 2 | 50 | 748 436 006 | 749 436 006 |
| 75 | 2 ½ | 65 | 748 436 007 | 749 436 007 |
| 90 | 3 | 80 | 748 436 008 | 749 436 008 |
| 110 | 4 | 100 | 748 436 009 | 749 436 009 |

Spare parts

Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)



| d [mm] | Inch | DN [mm] | EPDM Code | FPM Code |
|-----------|-------|------------|--------------|-------------|
| 16 | 3/8 | 10 | 161 485 240 | 161 485 250 |
| 20 | 1/2 | 15 | 161 485 241 | 161 485 251 |
| 25 | 3/4 | 20 | 161 485 242 | 161 485 252 |
| 32 | 1 | 25 | 161 485 243 | 161 485 253 |
| 40 | 1 1/4 | 32 | 161 485 244 | 161 485 254 |
| 50 | 1 1/2 | 40 | 161 485 245 | 161 485 255 |
| 63 | 2 | 50 | 161 485 246 | 161 485 256 |
| 75 | 2 1/2 | 65 | 161 485 247 | 161 485 257 |
| 90 | 3 | 80 | 161 485 248 | 161 485 258 |
| 110 | 4 | 100 | 161 485 249 | 161 485 259 |

Face seal (3)



| d [mm] | Inch | DN [mm] | EPDM Code | FPM Code |
|-----------|-------|------------|--------------|-------------|
| 16 | 3/8 | 10 | 748 410 059 | 749 410 059 |
| 20 | 1/2 | 15 | 748 410 059 | 749 410 059 |
| 25 | 3/4 | 20 | 748 410 106 | 749 410 106 |
| 32 | 1 | 25 | 748 410 151 | 749 410 151 |
| 40 | 1 1/4 | 32 | 748 410 062 | 749 410 062 |
| 50 | 1 1/2 | 40 | 748 410 003 | 749 410 003 |
| 63 | 2 | 50 | 748 410 231 | 749 410 231 |
| 75 | 2 1/2 | 65 | 748 410 119 | 749 410 119 |
| 90 | 3 | 80 | 748 410 023 | 749 410 023 |
| 110 | 4 | 100 | 748 410 254 | 749 410 254 |

Spring (8)

Model:

- Material: V2A, code: 1.4310
- Material: NIMONIC 90, code: 2.4632
- Material: NIMONIC 90, code: 2.4632, HALAR® coated



| d [mm] | Inch | DN [mm] | Stainless steel Code | NIMONIC 90 HALAR coated Code | NIMONIC 90 Code |
|-----------|-------|------------|-------------------------|------------------------------------|--------------------|
| 16 | 3/8 | 10 | 161 485 102 | 161 485 112 | 161 485 122 |
| 20 | 1/2 | 15 | 161 485 102 | 161 485 112 | 161 485 122 |
| 25 | 3/4 | 20 | 161 485 102 | 161 485 112 | 161 485 122 |
| 32 | 1 | 25 | 161 485 103 | 161 485 113 | 161 485 123 |
| 40 | 1 1/4 | 32 | 161 485 104 | 161 485 114 | 161 485 124 |
| 50 | 1 1/2 | 40 | 161 485 105 | 161 485 115 | 161 485 125 |
| 63 | 2 | 50 | 161 485 106 | 161 485 116 | 161 485 126 |
| 75 | 2 1/2 | 65 | 161 485 107 | 161 485 117 | 161 485 127 |
| 90 | 3 | 80 | 161 485 108 | 161 485 118 | 161 485 128 |
| 110 | 4 | 100 | 161 485 109 | 161 485 119 | 161 485 129 |

Handle for dismantling



DN10/15 - 50



| d [mm] | Inch | DN [mm] | red Code | black Code |
|-----------|-------|------------|-------------|---------------|
| 16 | 3/8 | 10 | 167 484 088 | 167 484 076 |
| 20 | 1/2 | 15 | 167 484 088 | 167 484 076 |
| 25 | 3/4 | 20 | 167 484 089 | 167 484 077 |
| 32 | 1 | 25 | 167 484 090 | 167 484 078 |
| 40 | 1 1/4 | 32 | 167 484 091 | 167 484 079 |
| 50 | 1 1/2 | 40 | 167 484 092 | 167 484 080 |
| 63 | 2 | 50 | 167 484 093 | 167 484 081 |

table continued next page

Spare parts

| d [mm] | Inch | DN [mm] | red Code | black Code | |
|------------------|-------------|-------------------|---------------------------|-----------------------------|--|
| 75 | 2 ½ | 65 | 167 484 094 | 167 484 082 | |
| 90 | 3 | 80 | 167 484 095 | 167 484 083 | |
| 110 | 4 | 100 | 167 484 096 | 167 484 084 | |

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| 161 485 102 | 52 | 161 485 248 | 52 | 161 561 048 | 4 |
| 161 485 103 | 52 | 161 485 249 | 52 | 161 561 049 | 4 |
| 161 485 104 | 52 | 161 485 250 | 52 | 161 561 050 | 4 |
| 161 485 105 | 52 | 161 485 251 | 52 | 161 561 051 | 4 |
| 161 485 106 | 52 | 161 485 252 | 52 | 161 561 052 | 4 |
| 161 485 107 | 52 | 161 485 253 | 52 | 161 561 053 | 4 |
| 161 485 108 | 52 | 161 485 254 | 52 | 161 561 054 | 4 |
| 161 485 109 | 52 | 161 485 255 | 52 | 161 561 055 | 4 |
| 161 485 112 | 52 | 161 485 256 | 52 | 161 561 056 | 4 |
| 161 485 113 | 52 | 161 485 257 | 52 | 161 561 057 | 4 |
| 161 485 114 | 52 | 161 485 258 | 52 | 161 561 058 | 4 |
| 161 485 115 | 52 | 161 485 259 | 52 | 161 561 059 | 4 |
| 161 485 116 | 52 | 161 491 151 | 51 | 161 561 060 | 4 |
| 161 485 117 | 52 | 161 491 152 | 51 | 161 561 061 | 12 |
| 161 485 118 | 52 | 161 491 153 | 51 | 161 561 062 | 12 |
| 161 485 119 | 52 | 161 491 154 | 51 | 161 561 063 | 12 |
| 161 485 122 | 52 | 161 491 155 | 51 | 161 561 064 | 12 |
| 161 485 123 | 52 | 161 491 156 | 51 | 161 561 065 | 12 |
| 161 485 124 | 52 | 161 491 157 | 51 | 161 561 066 | 12 |
| 161 485 125 | 52 | 161 491 158 | 51 | 161 561 067 | 12 |
| 161 485 126 | 52 | 161 491 159 | 51 | 161 561 068 | 12 |
| 161 485 127 | 52 | 161 561 001 | 4 | 161 561 069 | 12 |
| 161 485 128 | 52 | 161 561 002 | 4 | 161 561 070 | 12 |
| 161 485 129 | 52 | 161 561 003 | 4 | 161 561 071 | 12 |
| 161 485 201 | 50 | 161 561 004 | 4 | 161 561 072 | 12 |
| 161 485 202 | 50 | 161 561 005 | 4 | 161 561 073 | 12 |
| 161 485 203 | 50 | 161 561 006 | 4 | 161 561 074 | 12 |
| 161 485 204 | 50 | 161 561 007 | 4 | 161 561 075 | 12 |
| 161 485 205 | 50 | 161 561 008 | 4 | 161 561 076 | 12 |
| 161 485 206 | 50 | 161 561 009 | 4 | 161 561 077 | 12 |
| 161 485 207 | 50 | 161 561 010 | 4 | 161 561 078 | 12 |
| 161 485 208 | 50 | 161 561 011 | 4 | 161 561 079 | 12 |
| 161 485 209 | 50 | 161 561 012 | 4 | 161 561 080 | 12 |
| 161 485 211 | 50 | 161 561 013 | 4 | 161 561 082 | 5 |
| 161 485 212 | 50 | 161 561 014 | 4 | 161 561 083 | 5 |
| 161 485 213 | 50 | 161 561 015 | 4 | 161 561 084 | 5 |
| 161 485 214 | 50 | 161 561 016 | 4 | 161 561 085 | 5 |
| 161 485 215 | 50 | 161 561 017 | 4 | 161 561 086 | 5 |
| 161 485 216 | 50 | 161 561 018 | 4 | 161 561 087 | 5 |
| 161 485 217 | 50 | 161 561 019 | 4 | 161 561 092 | 5 |
| 161 485 218 | 50 | 161 561 020 | 4 | 161 561 093 | 5 |
| 161 485 219 | 50 | 161 561 021 | 5 | 161 561 094 | 5 |
| 161 485 221 | 50 | 161 561 022 | 5 | 161 561 095 | 5 |
| 161 485 222 | 50 | 161 561 023 | 5 | 161 561 096 | 5 |
| 161 485 223 | 50 | 161 561 024 | 5 | 161 561 097 | 5 |
| 161 485 224 | 50 | 161 561 025 | 5 | 161 561 101 | 13 |
| 161 485 225 | 50 | 161 561 026 | 5 | 161 561 102 | 13 |
| 161 485 226 | 50 | 161 561 027 | 5 | 161 561 103 | 13 |
| 161 485 227 | 51 | 161 561 028 | 5 | 161 561 104 | 13 |
| 161 485 228 | 51 | 161 561 029 | 5 | 161 561 105 | 13 |
| 161 485 229 | 51 | 161 561 030 | 5 | 161 561 106 | 13 |
| 161 485 231 | 50 | 161 561 031 | 5 | 161 561 107 | 13 |
| 161 485 232 | 50 | 161 561 032 | 5 | 161 561 108 | 13 |
| 161 485 233 | 50 | 161 561 033 | 5 | 161 561 109 | 13 |
| 161 485 234 | 50 | 161 561 034 | 5 | 161 561 110 | 13 |
| 161 485 235 | 50 | 161 561 035 | 5 | 161 561 111 | 13 |
| 161 485 236 | 50 | 161 561 036 | 5 | 161 561 112 | 13 |
| 161 485 237 | 51 | 161 561 037 | 5 | 161 561 113 | 13 |
| 161 485 238 | 51 | 161 561 038 | 5 | 161 561 114 | 13 |
| 161 485 239 | 51 | 161 561 039 | 5 | 161 561 115 | 13 |
| 161 485 240 | 52 | 161 561 040 | 5 | 161 561 116 | 13 |
| 161 485 241 | 52 | 161 561 041 | 4 | 161 561 117 | 13 |
| 161 485 242 | 52 | 161 561 042 | 4 | 161 561 118 | 13 |
| 161 485 243 | 52 | 161 561 043 | 4 | 161 561 119 | 13 |
| 161 485 244 | 52 | 161 561 044 | 4 | 161 561 120 | 13 |
| 161 485 245 | 52 | 161 561 045 | 4 | 161 561 142 | 6 |
| 161 485 246 | 52 | 161 561 046 | 4 | 161 561 143 | 6 |
| 161 485 247 | 52 | 161 561 047 | 4 | 161 561 144 | 6 |

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| 161 562 226 | 11 | 163 485 212 | 50 | 163 561 103 | 20 |
| 161 562 227 | 11 | 163 485 213 | 50 | 163 561 104 | 20 |
| 161 562 228 | 11 | 163 485 214 | 50 | 163 561 105 | 20 |
| 161 562 229 | 11 | 163 485 215 | 50 | 163 561 106 | 20 |
| 161 562 230 | 11 | 163 485 216 | 50 | 163 561 107 | 20 |
| 161 562 231 | 11 | 163 485 217 | 50 | 163 561 108 | 20 |
| 161 562 232 | 11 | 163 485 218 | 50 | 163 561 109 | 20 |
| 161 562 233 | 11 | 163 485 219 | 50 | 163 561 110 | 20 |
| 161 562 234 | 11 | 163 485 221 | 50 | 163 561 111 | 20 |
| 161 562 235 | 11 | 163 485 222 | 50 | 163 561 112 | 20 |
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| 161 562 237 | 11 | 163 485 224 | 50 | 163 561 114 | 20 |
| 161 562 238 | 11 | 163 485 225 | 50 | 163 561 115 | 20 |
| 161 562 239 | 11 | 163 485 226 | 50 | 163 561 116 | 20 |
| 161 562 240 | 11 | 163 485 227 | 51 | 163 561 117 | 20 |
| 161 562 241 | 14 | 163 485 228 | 51 | 163 561 118 | 20 |
| 161 562 242 | 14 | 163 485 229 | 51 | 163 561 119 | 20 |
| 161 562 243 | 14 | 163 485 231 | 50 | 163 561 120 | 20 |
| 161 562 244 | 14 | 163 485 232 | 50 | 163 561 201 | 19 |
| 161 562 245 | 14 | 163 485 233 | 50 | 163 561 202 | 19 |
| 161 562 246 | 14 | 163 485 234 | 50 | 163 561 203 | 19 |
| 161 562 247 | 14 | 163 485 235 | 50 | 163 561 204 | 19 |
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| 161 562 249 | 14 | 163 485 237 | 51 | 163 561 206 | 19 |
| 161 562 250 | 14 | 163 485 238 | 51 | 163 561 207 | 19 |
| 161 562 251 | 14 | 163 485 239 | 51 | 163 561 208 | 19 |
| 161 562 252 | 14 | 163 561 001 | 17 | 163 561 209 | 19 |
| 161 562 253 | 14 | 163 561 002 | 17 | 163 561 210 | 19 |
| 161 562 254 | 14 | 163 561 003 | 17 | 163 561 211 | 19 |
| 161 562 255 | 14 | 163 561 004 | 17 | 163 561 212 | 19 |
| 161 562 256 | 14 | 163 561 005 | 17 | 163 561 213 | 19 |
| 161 562 257 | 14 | 163 561 006 | 17 | 163 561 214 | 19 |
| 161 562 258 | 14 | 163 561 007 | 17 | 163 561 215 | 19 |
| 161 562 259 | 14 | 163 561 008 | 17 | 163 561 216 | 19 |
| 161 562 260 | 14 | 163 561 009 | 17 | 163 561 217 | 19 |
| 161 562 302 | 16 | 163 561 010 | 17 | 163 561 218 | 19 |
| 161 562 303 | 16 | 163 561 011 | 17 | 163 561 219 | 19 |
| 161 562 304 | 16 | 163 561 012 | 17 | 163 561 220 | 19 |
| 161 562 305 | 16 | 163 561 013 | 17 | 163 561 241 | 21 |
| 161 562 306 | 16 | 163 561 014 | 17 | 163 561 242 | 21 |
| 161 562 307 | 16 | 163 561 015 | 17 | 163 561 243 | 21 |
| 161 562 308 | 16 | 163 561 016 | 17 | 163 561 244 | 21 |
| 161 562 309 | 16 | 163 561 017 | 17 | 163 561 245 | 21 |
| 161 562 310 | 16 | 163 561 018 | 17 | 163 561 246 | 21 |
| 161 562 323 | 16 | 163 561 019 | 17 | 163 561 247 | 21 |
| 161 562 324 | 16 | 163 561 020 | 17 | 163 561 248 | 21 |
| 161 562 325 | 16 | 163 561 021 | 17 | 163 561 249 | 21 |
| 161 562 326 | 16 | 163 561 022 | 17 | 163 561 250 | 21 |
| 161 562 327 | 16 | 163 561 023 | 17 | 163 561 251 | 21 |
| 163 482 151 | 51 | 163 561 024 | 17 | 163 561 252 | 21 |
| 163 482 152 | 51 | 163 561 025 | 17 | 163 561 253 | 21 |
| 163 482 153 | 51 | 163 561 026 | 17 | 163 561 254 | 21 |

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| 163 562 003 | 18 |
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| 163 562 005 | 18 |
| 163 562 006 | 18 |
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| 163 562 109 | 20 |
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| 163 562 111 | 20 |
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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser. They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
 - a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
 - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads. Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith. Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the reform, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
 - c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met. The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved.

Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible. In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice. In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com. Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
 - the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, oversteering or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
 - Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages. This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case of unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

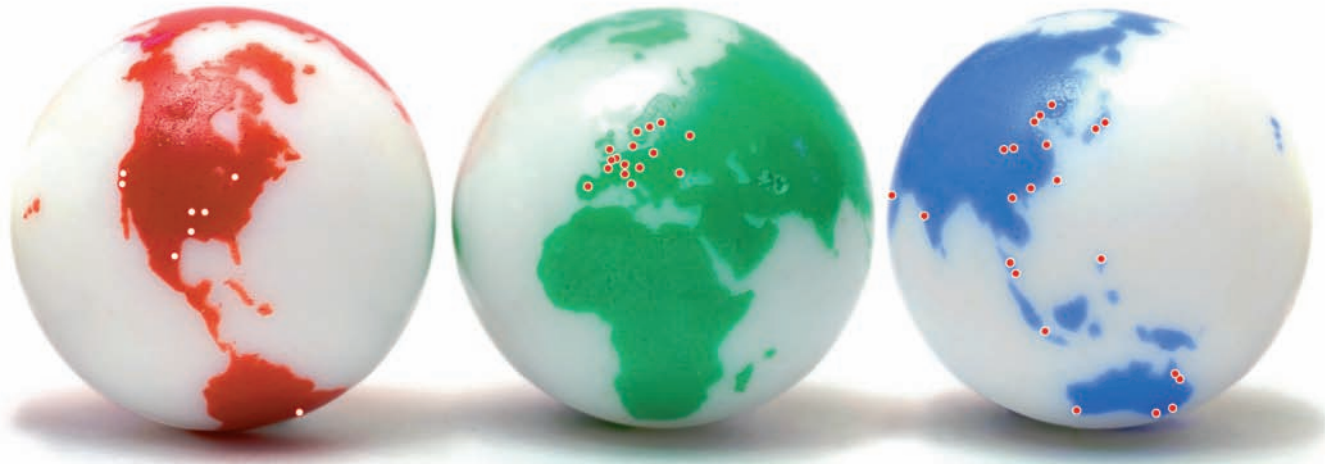
18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland. Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

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The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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