

SYGEF Plus
Diaphragm valve DIASTAR TenPlus
FC (Fail safe to close)
With butt fusion spigots metric

Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

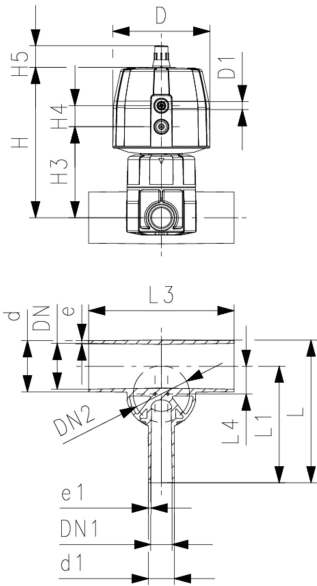
Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

Working Pressure: **both sides**

* Available on request

*O-ring material: FKM white

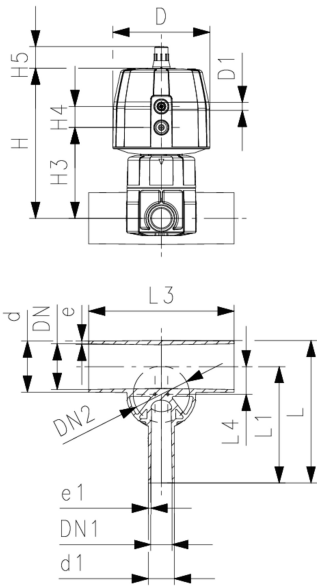


| d (mm) | d1 (mm) | DN (mm) | DN1 (mm) | Size (inch) | PN (bar) | kv-value ($\Delta p=1$ bar) (l/min) | Valve Size d (mm) | PTFE/EPDM Code | SP | Weight (kg) |
|-----------|------------|------------|-------------|----------------|-------------|--|-------------------------|--------------------|----|----------------|
| 20 | 20 | 15 | 15 | 1/2 | 10 | 57 | 20 | 181 689 301 | 1 | 1.112 |
| 25 | 20 | 20 | 15 | 3/4 | 10 | 89 | 25 | 181 689 303 | 1 | 1.230 |
| 25 | 25 | 20 | 20 | 3/4 | 10 | 118 | 25 | 181 689 304 | 1 | 1.233 |
| 32 | 20 | 25 | 15 | 1 | 10 | 80 | 25 | 181 689 307 | 1 | 1.283 |
| 32 | 25 | 25 | 20 | 1 | 10 | 105 | 25 | 181 689 308 | 1 | 1.287 |
| 32 | 32 | 25 | 25 | 1 | 10 | 231 | 32 | 181 689 309 | 1 | 2.391 |
| 40 | 20 | 32 | 15 | 1 1/4 | 10 | 85 | 32 | 181 689 312 | 1 | 2.117 |
| 40 | 25 | 32 | 20 | 1 1/4 | 10 | 119 | 32 | 181 689 313 | 1 | 2.121 |
| 40 | 32 | 32 | 25 | 1 1/4 | 10 | 153 | 32 | 181 689 314 | 1 | 2.139 |
| 40 | 40 | 32 | 32 | 1 1/4 | 10 | 187 | 32 | 181 689 315 | 1 | 2.168 |
| 50 | 20 | 40 | 15 | 1 1/2 | 10 | 86 | 25 | 181 689 318 | 1 | 1.402 |
| 50 | 25 | 40 | 20 | 1 1/2 | 10 | 160 | 32 | 181 689 319 | 1 | 2.207 |
| 50 | 32 | 40 | 25 | 1 1/2 | 10 | 206 | 32 | 181 689 320 | 1 | 2.212 |
| 50 | 40 | 40 | 32 | 1 1/2 | 10 | 524 | 63 | 181 689 321 | 1 | 6.022 |
| 50 | 50 | 40 | 40 | 1 1/2 | 10 | 667 | 63 | 181 689 322 | 1 | 6.032 |
| 63 | 20 | 50 | 15 | 2 | 10 | 84 | 25 | 181 689 325 | 1 | 1.479 |
| 63 | 25 | 50 | 20 | 2 | 10 | 150 | 32 | 181 689 326 | 1 | 2.292 |
| 63 | 32 | 50 | 25 | 2 | 10 | 184 | 32 | 181 689 327 | 1 | 2.298 |
| 63 | 40 | 50 | 32 | 2 | 10 | 471 | 63 | 181 689 328 | 1 | 6.199 |
| 63 | 50 | 50 | 40 | 2 | 10 | 610 | 63 | 181 689 329 | 1 | 6.264 |
| 63 | 63 | 50 | 50 | 2 | 10 | 747 | 63 | 181 689 330 | 1 | 6.277 |
| 90 | 20 | 80 | 15 | 3 | 10 | 82 | 32 | 181 689 341 | 1 | 2.577 |
| 90 | 25 | 80 | 20 | 3 | 10 | 103 | 32 | 181 689 342 | 1 | 2.584 |
| 90 | 32 | 80 | 25 | 3 | 10 | 129 | 32 | 181 689 343 | 1 | 2.600 |
| 90 | 50 | 80 | 40 | 3 | 10 | 623 | 63 | 181 689 345 | 1 | 6.717 |
| 90 | 63 | 80 | 50 | 3 | 10 | 696 | 63 | 181 689 346 | 1 | 6.745 |
| 110 | 20 | 100 | 15 | 4 | 10 | 78 | 32 | 181 689 351 | 1 | 2.847 |
| 110 | 25 | 100 | 20 | 4 | 10 | 103 | 32 | 181 689 352 | 1 | 2.853 |
| 110 | 32 | 100 | 25 | 4 | 10 | 131 | 32 | 181 689 353 | 1 | 2.870 |
| 110 | 50 | 100 | 40 | 4 | 10 | 604 | 63 | 181 689 355 | 1 | 7.133 |
| 110 | 63 | 100 | 50 | 4 | 10 | 661 | 63 | 181 689 356 | 1 | 7.163 |

| d (mm) | PTFE/FKM Code | SP | Weight (kg) |
|-----------|--------------------|----|----------------|
| 20 | 181 689 501 | 1 | 1.112 |
| 25 | 181 689 503 | 1 | 1.230 |
| 25 | 181 689 504 | 1 | 1.233 |
| 32 | 181 689 507 | 1 | 1.283 |
| 32 | 181 689 508 | 1 | 1.287 |
| 32 | 181 689 509 | 1 | 2.063 |
| 40 | 181 689 512 | 1 | 2.117 |

Data sheet

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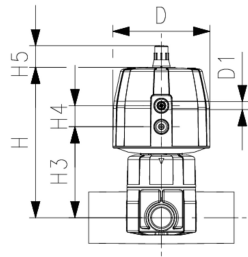


| d (mm) | PTFE/FKM Code | SP | Weight (kg) |
|-----------|------------------|----|----------------|
| 40 | 181 689 513 | 1 | 2.121 |
| 40 | 181 689 514 | 1 | 2.139 |
| 40 | 181 689 515 | 1 | 2.168 |
| 50 | 181 689 518 | 1 | 1.402 |
| 50 | 181 689 519 | 1 | 2.207 |
| 50 | 181 689 520 | 1 | 2.212 |
| 50 | 181 689 521 | 1 | 6.022 |
| 50 | 181 689 522 | 1 | 6.032 |
| 63 | 181 689 525 | 1 | 1.479 |
| 63 | 181 689 526 | 1 | 2.292 |
| 63 | 181 689 527 | 1 | 2.298 |
| 63 | 181 689 528 | 1 | 6.199 |
| 63 | 181 689 529 | 1 | 6.264 |
| 63 | 181 689 530 | 1 | 6.277 |
| 90 | 181 689 541 | 1 | 2.577 |
| 90 | 181 689 542 | 1 | 2.584 |
| 90 | 181 689 543 | 1 | 2.600 |
| 90 | 181 689 545 | 1 | 6.717 |
| 90 | 181 689 546 | 1 | 6.745 |
| 110 | 181 689 551 | 1 | 2.847 |
| 110 | 181 689 552 | 1 | 2.853 |
| 110 | 181 689 553 | 1 | 2.870 |
| 110 | 181 689 555 | 1 | 7.133 |
| 110 | 181 689 556 | 1 | 7.163 |

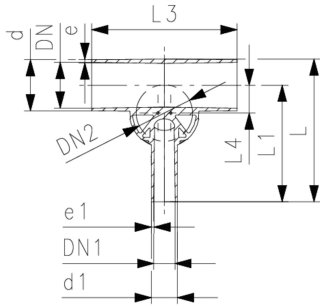
| d (mm) | D (mm) | D1 (inch) | H (mm) | H3 (mm) | H4 (mm) | H5 (mm) | L (mm) | L1 (mm) | L3 (mm) | L4 (mm) | e (mm) | Lift = Hx (mm) | DN2 (mm) | e1 (mm) |
|-----------|-----------|--------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|----------------------|-------------|------------|
| 20 | 96 | 3/8 | 130 | 71 | 25 | 16 | 117 | 96 | 162 | 12 | 1.9 | 7 | 15 | 2 |
| 25 | 96 | 3/8 | 131 | 72 | 25 | 16 | 133 | 108 | 162 | 16 | 1.9 | 10 | 20 | 2 |
| 25 | 96 | 3/8 | 131 | 72 | 25 | 16 | 133 | 108 | 162 | 16 | 1.9 | 10 | 20 | 2 |
| 32 | 96 | 3/8 | 135 | 76 | 25 | 16 | 142 | 120 | 162 | 19 | 2.4 | 10 | 20 | 2 |
| 32 | 96 | 3/8 | 135 | 76 | 25 | 16 | 142 | 120 | 162 | 19 | 2.4 | 10 | 20 | 2 |
| 32 | 120 | 1/2 | 167 | 93 | 26 | 26 | 145 | 120 | 160 | 19 | 2.4 | 13 | 25 | 2 |
| 40 | 120 | 1/2 | 175 | 101 | 26 | 26 | 149 | 128 | 180 | 23 | 2.4 | 13 | 25 | 2 |
| 40 | 120 | 1/2 | 175 | 101 | 26 | 26 | 149 | 128 | 180 | 23 | 2.4 | 13 | 25 | 2 |
| 40 | 120 | 1/2 | 175 | 101 | 26 | 26 | 149 | 128 | 180 | 23 | 2.4 | 13 | 25 | 2 |
| 40 | 120 | 1/2 | 175 | 101 | 26 | 26 | 174 | 153 | 180 | 23 | 2.4 | 13 | 25 | 2 |
| 50 | 96 | 3/8 | 148 | 90 | 25 | 16 | 160 | 134 | 180 | 27 | 3.0 | 10 | 20 | 2 |
| 50 | 120 | 1/2 | 180 | 106 | 26 | 26 | 160 | 134 | 180 | 28 | 3.0 | 13 | 25 | 2 |
| 50 | 120 | 1/2 | 180 | 106 | 26 | 26 | 160 | 134 | 180 | 28 | 3.0 | 13 | 25 | 2 |
| 50 | 180 | 3/4 | 249 | 135 | 37 | 26 | 209 | 169 | 209 | 33 | 3.0 | 23 | 50 | 2 |
| 50 | 180 | 3/4 | 249 | 135 | 37 | 26 | 209 | 169 | 209 | 33 | 3.0 | 23 | 50 | 3 |
| 63 | 96 | 3/8 | 155 | 96 | 25 | 16 | 177 | 144 | 180 | 33 | 3.0 | 10 | 20 | 2 |
| 63 | 120 | 1/2 | 187 | 113 | 26 | 26 | 177 | 144 | 180 | 35 | 3.0 | 13 | 25 | 2 |
| 63 | 120 | 1/2 | 187 | 113 | 26 | 26 | 177 | 144 | 180 | 35 | 3.0 | 13 | 25 | 2 |
| 63 | 180 | 3/4 | 255 | 141 | 37 | 26 | 225 | 192 | 220 | 39 | 3.0 | 23 | 50 | 2 |
| 63 | 180 | 3/4 | 255 | 141 | 37 | 26 | 225 | 192 | 220 | 39 | 3.0 | 23 | 50 | 3 |
| 63 | 180 | 3/4 | 255 | 141 | 37 | 26 | 225 | 192 | 220 | 39 | 3.0 | 23 | 50 | 3 |
| 90 | 120 | 1/2 | 200 | 126 | 26 | 26 | 205 | 159 | 190 | 47 | 4.3 | 13 | 25 | 2 |
| 90 | 120 | 1/2 | 200 | 126 | 26 | 26 | 205 | 159 | 190 | 47 | 4.3 | 13 | 25 | 2 |
| 90 | 180 | 3/4 | 269 | 155 | 37 | 26 | 254 | 207 | 250 | 51 | 4.3 | 23 | 50 | 3 |
| 90 | 180 | 3/4 | 269 | 155 | 37 | 26 | 254 | 207 | 250 | 51 | 4.3 | 23 | 50 | 3 |
| 110 | 120 | 1/2 | 209 | 135 | 26 | 26 | 227 | 171 | 190 | 56 | 5.3 | 13 | 25 | 2 |

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| d (mm) | D (mm) | D1 (inch) | H (mm) | H3 (mm) | H4 (mm) | H5 (mm) | L (mm) | L1 (mm) | L3 (mm) | L4 (mm) | e (mm) | Lift = Hx (mm) | DN2 (mm) | e1 (mm) |
|-----------|-----------|--------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|----------------------|-------------|------------|
| 110 | 120 | 1/2 | 209 | 135 | 26 | 26 | 227 | 171 | 190 | 56 | 5.3 | 13 | 25 | 2 |
| 110 | 120 | 1/2 | 209 | 135 | 26 | 26 | 227 | 171 | 190 | 56 | 5.3 | 13 | 25 | 2 |
| 110 | 180 | 1/2 | 279 | 165 | 37 | 26 | 276 | 219 | 250 | 60 | 5.3 | 23 | 50 | 3 |
| 110 | 180 | 1/2 | 279 | 165 | 37 | 26 | 276 | 219 | 250 | 60 | 5.3 | 23 | 50 | 3 |



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Georg Fischer Piping Systems Ltd, Postfach, CH-8201 Schaffhausen/Switzerland Phone +41 -(0)52-631 1111 e-mail: info.ps@georgfischer.com Internet: <http://www.gfps.com>