

Product Range

**Type 546**  
**Manual and Actuated**  
**Ball Valves**  
**DN10 to DN100**



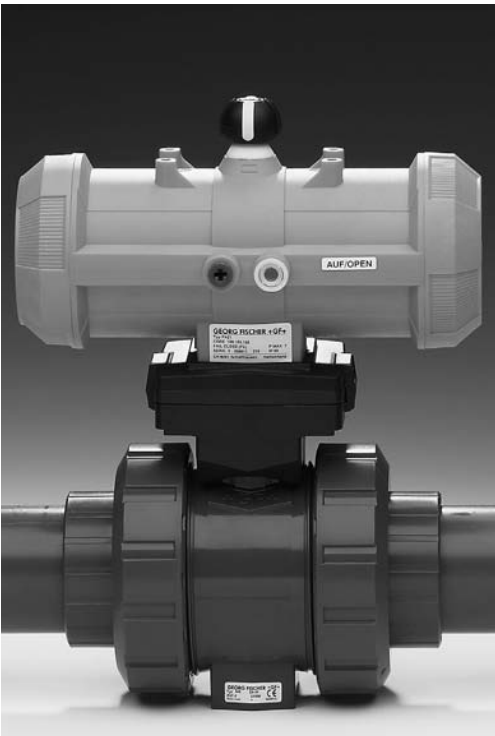
**GEORG FISCHER**  
PIPING SYSTEMS

# Copiable

## GF ball valve type 546 with pneumatic actuator

**It's so easy to configure the type 546:**  
 With the configurator, you have a choice of new pneumatic actuators PA11 and PA21 in 2 optimized sizes including a large range of accessories.

**We supply what you put together.**



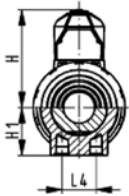
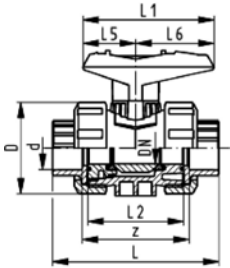
|                                      |                              |   |  |
|--------------------------------------|------------------------------|---|--|
| <b>Pneumatic actuators PA11/PA21</b> |                              |   |  |
| P01                                  | Fail safe to close PA11/PA21 |   |  |
| P02                                  | Fail safe to open PA11/21    |   |  |
| P03                                  | Double acting PA11/21        |   |  |
| P30                                  | Fail safe to close PA30/90   |   |  |
| P31                                  | Fail safe to open PA30/90    |   |  |
| P32                                  | Double acting PA30/90        |   |  |
| <b>Manual override</b>               |                              |   |  |
| Q01                                  | without manual override      |   |  |
| Q02                                  | with manual override         |   |  |
| <b>Stroke limiter</b>                |                              |   |  |
| R01                                  | without stroke limiter       |   |  |
| R02                                  | with stroke limiter          |   |  |
| P                                    | Q                            | R |  |

# Ball valves

## SYGEF® standard Ball valve type 546 PVDF With fusion sockets metric



DN10/15 - 50



### Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Without mounting inserts

### Option:

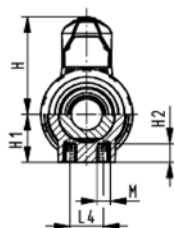
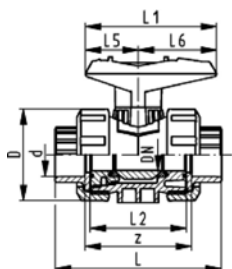
- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 16 | 71                                         | <b>175 546 011</b> | 0.195 |  |
| 20        | 15         | 16 | 185                                        | <b>175 546 012</b> | 0.200 |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 013</b> | 0.300 |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 014</b> | 0.440 |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 015</b> | 0.760 |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 016</b> | 1.060 |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 017</b> | 2.055 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | z<br>[mm] |  |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|--|
| 16        | 50        | 57        | 27         | 93        | 77         | 56         | 25         | 32         | 45         | 67        |  |
| 20        | 50        | 57        | 27         | 95        | 77         | 56         | 25         | 32         | 45         | 66        |  |
| 25        | 58        | 67        | 30         | 109       | 97         | 65         | 25         | 39         | 58         | 77        |  |
| 32        | 68        | 73        | 36         | 119       | 97         | 71         | 25         | 39         | 58         | 83        |  |
| 40        | 84        | 90        | 44         | 135       | 128        | 85         | 45         | 54         | 74         | 99        |  |
| 50        | 97        | 97        | 51         | 147       | 128        | 89         | 45         | 54         | 74         | 105       |  |
| 63        | 124       | 116       | 64         | 168       | 152        | 101        | 45         | 66         | 87         | 117       |  |



DN10/15 - 50



## SYGEF® standard Ball valve type 546 PVDF With mounting inserts With fusion sockets metric

### Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts

### Option:

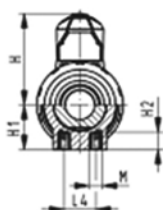
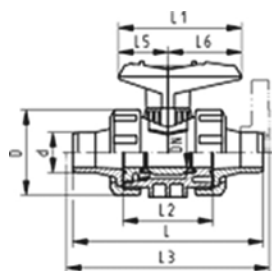
- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |
|-----------|------------|----|--------------------------------------------|--------------------|-------|
| 16        | 10         | 16 | 71                                         | <b>175 546 411</b> | 0.195 |
| 20        | 15         | 16 | 185                                        | <b>175 546 412</b> | 0.200 |
| 25        | 20         | 16 | 350                                        | <b>175 546 413</b> | 0.300 |
| 32        | 25         | 16 | 700                                        | <b>175 546 414</b> | 0.440 |
| 40        | 32         | 16 | 1000                                       | <b>175 546 415</b> | 0.760 |
| 50        | 40         | 16 | 1600                                       | <b>175 546 416</b> | 1.060 |
| 63        | 50         | 16 | 3100                                       | <b>175 546 417</b> | 2.055 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|
| 16        | 50        | 79        | 27         | 12         | 93        | 77         | 56         | 25         | 32         | 45         | M6 | 67        |
| 20        | 50        | 57        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | M6 | 66        |
| 25        | 58        | 67        | 30         | 12         | 109       | 97         | 65         | 25         | 39         | 58         | M6 | 77        |
| 32        | 68        | 73        | 36         | 12         | 119       | 97         | 71         | 25         | 39         | 58         | M6 | 83        |
| 40        | 84        | 90        | 44         | 15         | 135       | 128        | 85         | 45         | 54         | 74         | M8 | 99        |
| 50        | 97        | 97        | 51         | 15         | 147       | 128        | 89         | 45         | 54         | 74         | M8 | 105       |
| 63        | 124       | 116       | 64         | 15         | 168       | 152        | 101        | 45         | 66         | 87         | M8 | 117       |



DN10/15 - 50



## SYGEF® standard

### Ball valve type 546 PVDF

### With mounting inserts

### With socket fusion spigots metric

#### Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts

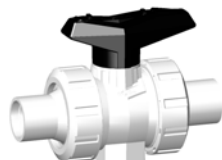
#### Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

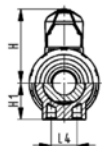
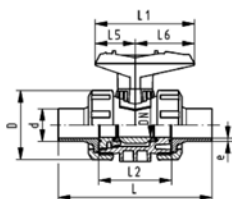
| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|
| 16        | 10         | 16 | 71                                         | <b>175 546 051</b> | 0.200 |  |  |  |  |  |  |  |  |
| 20        | 15         | 16 | 185                                        | <b>175 546 052</b> | 0.205 |  |  |  |  |  |  |  |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 053</b> | 0.310 |  |  |  |  |  |  |  |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 054</b> | 0.460 |  |  |  |  |  |  |  |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 055</b> | 0.780 |  |  |  |  |  |  |  |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 056</b> | 1.110 |  |  |  |  |  |  |  |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 057</b> | 2.150 |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  |  |  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|----|--|--|
| 16        | 50        | 57        | 27         | 12         | 110       | 77         | 56         |            | 25         | 32         | 45         | M6 |  |  |
| 20        | 50        | 57        | 27         | 12         | 120       | 77         | 56         | 130        | 25         | 32         | 45         | M6 |  |  |
| 25        | 58        | 67        | 30         | 12         | 139       | 97         | 65         | 150        | 25         | 39         | 58         | M6 |  |  |
| 32        | 68        | 73        | 36         | 12         | 150       | 97         | 71         | 160        | 25         | 39         | 58         | M6 |  |  |
| 40        | 84        | 90        | 44         | 15         | 170       | 128        | 85         | 180        | 45         | 54         | 74         | M8 |  |  |
| 50        | 97        | 97        | 51         | 15         | 190       | 128        | 89         | 200        | 45         | 54         | 74         | M8 |  |  |
| 63        | 124       | 116       | 64         | 15         | 220       | 152        | 101        | 230        | 45         | 66         | 87         | M8 |  |  |



DN10/15 - 50



## SYGEF® standard Ball valve type 546 PVDF With butt fusion spigots metric

### Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Without mounting inserts

### Option:

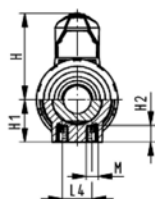
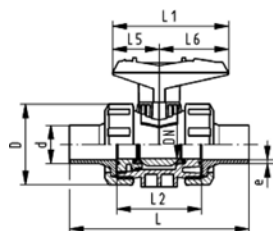
- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 20        | 15         | 16 | 185                                        | <b>175 546 092</b> | 0.205 |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 093</b> | 0.310 |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 094</b> | 0.460 |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 095</b> | 0.780 |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 096</b> | 1.110 |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 097</b> | 2.150 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | e<br>[mm] |  |
|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|--|
| 20        | 50        | 57        | 27         | 130       | 77         | 56         | 25         | 32         | 45         | 1,9       |  |
| 25        | 58        | 67        | 30         | 143       | 97         | 65         | 25         | 39         | 58         | 1,9       |  |
| 32        | 68        | 73        | 36         | 150       | 97         | 71         | 25         | 39         | 58         | 2,4       |  |
| 40        | 84        | 90        | 44         | 171       | 128        | 85         | 45         | 54         | 74         | 2,4       |  |
| 50        | 97        | 97        | 51         | 191       | 128        | 89         | 45         | 54         | 74         | 3         |  |
| 63        | 124       | 116       | 64         | 220       | 152        | 101        | 45         | 66         | 87         | 3         |  |



DN10/15 - 50



# SYGEF® standard Ball valve type 546 PVDF With mounting inserts With butt fusion spigots metric

## Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts

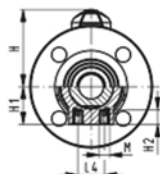
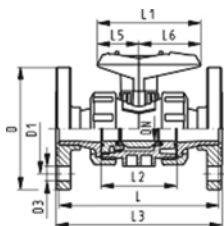
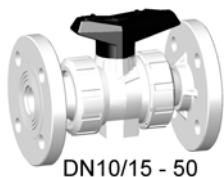
## Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|
| 20        | 15         | 16 | 185                                        | <b>175 546 272</b> | 0.205 |  |  |  |  |  |  |  |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 273</b> | 0.310 |  |  |  |  |  |  |  |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 274</b> | 0.460 |  |  |  |  |  |  |  |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 275</b> | 0.780 |  |  |  |  |  |  |  |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 276</b> | 1.110 |  |  |  |  |  |  |  |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 277</b> | 2.150 |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | e<br>[mm] |  |  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|--|--|
| 20        | 50        | 57        | 27         | 12         | 130       | 77         | 56         | 25         | 32         | 45         | M6 | 1,9       |  |  |
| 25        | 58        | 67        | 30         | 12         | 143       | 97         | 65         | 25         | 39         | 58         | M6 | 1,9       |  |  |
| 32        | 68        | 73        | 36         | 12         | 150       | 97         | 71         | 25         | 39         | 58         | M6 | 2,4       |  |  |
| 40        | 84        | 90        | 44         | 15         | 171       | 128        | 85         | 45         | 54         | 74         | M8 | 2,4       |  |  |
| 50        | 97        | 97        | 51         | 15         | 191       | 128        | 89         | 45         | 54         | 74         | M8 | 3         |  |  |
| 63        | 124       | 116       | 64         | 15         | 220       | 152        | 101        | 45         | 66         | 87         | M8 | 3         |  |  |



# SYGEF® standard Ball valve type 546 PVDF With mounting inserts With fixed flanges PVDF serrated metric

## Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Overall length EN 558-1

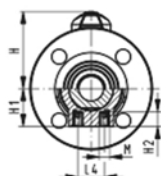
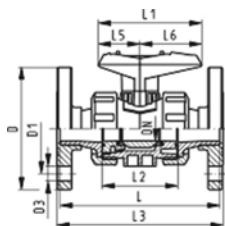
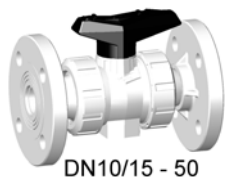
## Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 20        | 15         | 16 | 185                                        | <b>175 546 192</b> | 0.470 |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 193</b> | 0.650 |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 194</b> | 0.940 |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 195</b> | 1.570 |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 196</b> | 2.070 |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 197</b> | 3.490 |  |

| d<br>[mm] | D<br>[mm] | D1<br>[mm] | D3<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  |  |
|-----------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|----|--|
| 20        | 93        | 65         | 14         | 57        | 27         | 12         | 120       | 77         | 56         | 130        | 25         | 32         | 45         | M6 |  |
| 25        | 103       | 75         | 14         | 67        | 30         | 12         | 140       | 97         | 65         | 150        | 25         | 39         | 58         | M6 |  |
| 32        | 115       | 85         | 14         | 73        | 36         | 12         | 150       | 97         | 71         | 160        | 25         | 39         | 58         | M6 |  |
| 40        | 137       | 100        | 18         | 90        | 44         | 15         | 170       | 128        | 85         | 180        | 45         | 54         | 74         | M8 |  |
| 50        | 147       | 110        | 18         | 97        | 51         | 15         | 190       | 128        | 89         | 200        | 45         | 54         | 74         | M8 |  |
| 63        | 162       | 125        | 18         | 116       | 64         | 15         | 220       | 152        | 101        | 230        | 45         | 66         | 87         | M8 |  |





# SYGEF® standard Ball valve type 546 PVDF With mounting inserts With fixed flanges PVDF serrated ANSI

## Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Overall length EN 558-1

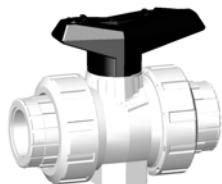
## Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

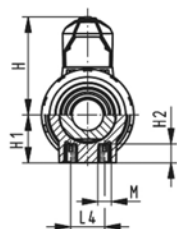
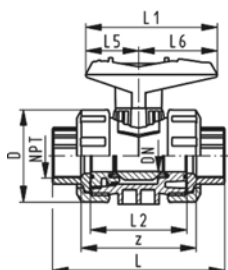
| Inch | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |  |  |  |  |  |  |  |  |  |
|------|------------|----|--------------------------------------------|--------------------|--|--|--|--|--|--|--|--|--|--|
| ½    | 15         | 16 | 185                                        | <b>175 546 592</b> |  |  |  |  |  |  |  |  |  |  |
| ¾    | 20         | 16 | 350                                        | <b>175 546 593</b> |  |  |  |  |  |  |  |  |  |  |
| 1    | 25         | 16 | 700                                        | <b>175 546 594</b> |  |  |  |  |  |  |  |  |  |  |
| 1 ¼  | 32         | 16 | 1000                                       | <b>175 546 595</b> |  |  |  |  |  |  |  |  |  |  |
| 1 ½  | 40         | 16 | 1600                                       | <b>175 546 596</b> |  |  |  |  |  |  |  |  |  |  |
| 2    | 50         | 16 | 3100                                       | <b>175 546 597</b> |  |  |  |  |  |  |  |  |  |  |

| Inch | D<br>[mm] | D1<br>[mm] | D3<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  |  |
|------|-----------|------------|------------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|----|--|
| ½    | 93        | 65         | 14         | 57        | 27         | 12         | 120       | 77         | 56         | 130        | 25         | 32         | 45         | M6 |  |
| ¾    | 103       | 75         | 14         | 67        | 30         | 12         | 140       | 97         | 65         | 150        | 25         | 39         | 58         | M6 |  |
| 1    | 115       | 85         | 14         | 73        | 36         | 12         | 150       | 97         | 71         | 160        | 25         | 39         | 58         | M6 |  |
| 1 ¼  | 137       | 100        | 18         | 90        | 44         | 15         | 170       | 128        | 85         | 180        | 45         | 54         | 74         | M8 |  |
| 1 ½  | 147       | 110        | 18         | 97        | 51         | 15         | 190       | 128        | 89         | 200        | 45         | 54         | 74         | M8 |  |
| 2    | 162       | 125        | 18         | 116       | 64         | 15         | 220       | 152        | 101        | 230        | 45         | 66         | 87         | M8 |  |



DN10/15 - 50



## SYGEF® standard Ball valve type 546 PVDF With mounting inserts With threaded sockets NPT

### Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts

### Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

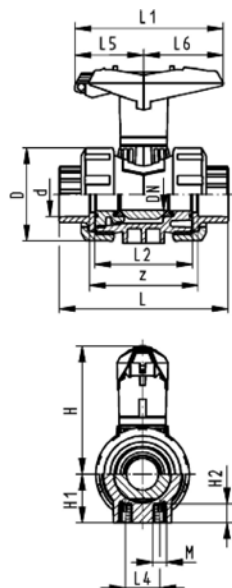
| NPT<br>[inch] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |
|---------------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|
| 3/8           | 10         | 10 | 71                                         | <b>175 546 331</b> | 0.205 |  |  |  |  |  |  |  |  |
| 1/2           | 15         | 10 | 185                                        | <b>175 546 332</b> | 0.220 |  |  |  |  |  |  |  |  |
| 3/4           | 20         | 10 | 350                                        | <b>175 546 333</b> | 0.325 |  |  |  |  |  |  |  |  |
| 1             | 25         | 10 | 700                                        | <b>175 546 334</b> | 0.490 |  |  |  |  |  |  |  |  |
| 1 1/4         | 32         | 10 | 1000                                       | <b>175 546 335</b> | 0.820 |  |  |  |  |  |  |  |  |
| 1 1/2         | 40         | 10 | 1600                                       | <b>175 546 336</b> | 1.135 |  |  |  |  |  |  |  |  |
| 2             | 50         | 10 | 3100                                       | <b>175 546 337</b> | 2.150 |  |  |  |  |  |  |  |  |

| NPT<br>[inch] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | z<br>[mm] |  |  |
|---------------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|--|--|
| 3/8           | 50        | 57        | 27         | 12         | 96        | 77         | 56         | 25         | 32         | 45         | M6 | 69        |  |  |
| 1/2           | 50        | 57        | 27         | 12         | 99        | 77         | 56         | 25         | 32         | 45         | M6 | 64        |  |  |
| 3/4           | 58        | 67        | 30         | 12         | 111       | 97         | 65         | 25         | 39         | 58         | M6 | 76        |  |  |
| 1             | 68        | 73        | 36         | 12         | 127       | 97         | 71         | 25         | 39         | 58         | M6 | 83        |  |  |
| 1 1/4         | 84        | 90        | 44         | 15         | 146       | 128        | 85         | 45         | 54         | 74         | M8 | 101       |  |  |
| 1 1/2         | 97        | 97        | 51         | 15         | 157       | 128        | 89         | 45         | 54         | 74         | M8 | 111       |  |  |
| 2             | 124       | 116       | 64         | 15         | 183       | 152        | 101        | 45         | 66         | 87         | M8 | 135       |  |  |



DN10/15 - 50



# SYGEF® standard Ball valve type 546 PVDF With lockable handle With fusion sockets metric

## Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Lockable hand lever with ratchet settings

## Option:

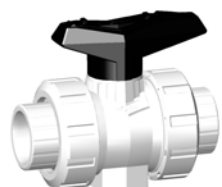
- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 16 | 71                                         | <b>175 546 431</b> | 0.205 |  |
| 20        | 15         | 16 | 185                                        | <b>175 546 432</b> | 0.210 |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 433</b> | 0.315 |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 434</b> | 0.455 |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 435</b> | 0.785 |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 436</b> | 1.085 |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 437</b> | 2.085 |  |

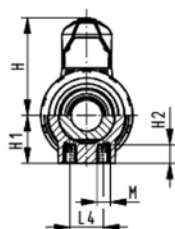
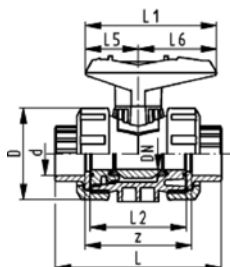
| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|--|
| 16        | 50        | 79        | 27         | 12         | 93        | 77         | 56         | 25         | 32         | 45         | M6 | 67        |  |
| 20        | 50        | 79        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | M6 | 66        |  |
| 25        | 58        | 88        | 30         | 12         | 109       | 97         | 65         | 25         | 39         | 58         | M6 | 77        |  |
| 32        | 68        | 94        | 36         | 12         | 119       | 97         | 71         | 25         | 39         | 58         | M6 | 83        |  |
| 40        | 84        | 113       | 44         | 15         | 135       | 128        | 85         | 45         | 54         | 74         | M8 | 99        |  |
| 50        | 97        | 119       | 51         | 15         | 147       | 128        | 89         | 45         | 54         | 74         | M8 | 105       |  |
| 63        | 124       | 141       | 64         | 15         | 168       | 152        | 101        | 45         | 66         | 87         | M8 | 117       |  |

# Ball valves silicon free/paint compatible

## SYGEF® standard silicone free Ball valve type 546 SF With fusion sockets metric



DN10/15 - 50



### Model:

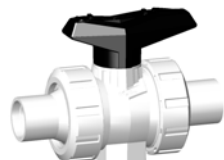
- Silicon-free / paint-compatible
- Ball seals PVDF
- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Integrated stainless steel mounting inserts

### Option:

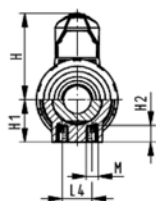
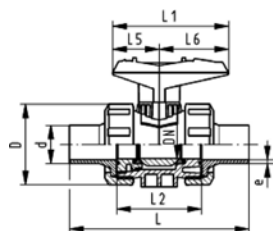
- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 16 | 71                                         | <b>175 546 691</b> | 0.195 |  |
| 20        | 15         | 16 | 185                                        | <b>175 546 692</b> | 0.200 |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 693</b> | 0.300 |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 694</b> | 0.440 |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 695</b> | 0.760 |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 696</b> | 1.060 |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 697</b> | 2.055 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|--|
| 16        | 50        | 79        | 27         | 12         | 93        | 77         | 56         | 25         | 32         | 45         | M6 | 67        |  |
| 20        | 50        | 57        | 27         | 12         | 95        | 77         | 56         | 25         | 32         | 45         | M6 | 66        |  |
| 25        | 58        | 67        | 30         | 12         | 109       | 97         | 65         | 25         | 39         | 58         | M6 | 77        |  |
| 32        | 68        | 73        | 36         | 12         | 119       | 97         | 71         | 25         | 39         | 58         | M6 | 83        |  |
| 40        | 84        | 90        | 44         | 15         | 135       | 128        | 85         | 45         | 54         | 74         | M8 | 99        |  |
| 50        | 97        | 97        | 51         | 15         | 147       | 128        | 89         | 45         | 54         | 74         | M8 | 105       |  |
| 63        | 124       | 116       | 64         | 15         | 168       | 152        | 101        | 45         | 66         | 87         | M8 | 117       |  |



DN10/15 - 50



## SYGEF® standard silicone free Ball valve type 546 SF With butt fusion spigots IR-Plus metric

### Model:

- Silicon-free / paint-compatible
- Ball seals PVDF
- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Integrated stainless steel mounting inserts

### Option:

- Individual configuration of the valve (see form)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|
| 20        | 15         | 16 | 185                                        | <b>175 546 752</b> | 0.205 |  |  |  |  |  |  |  |  |
| 25        | 20         | 16 | 350                                        | <b>175 546 753</b> | 0.310 |  |  |  |  |  |  |  |  |
| 32        | 25         | 16 | 700                                        | <b>175 546 754</b> | 0.460 |  |  |  |  |  |  |  |  |
| 40        | 32         | 16 | 1000                                       | <b>175 546 755</b> | 0.780 |  |  |  |  |  |  |  |  |
| 50        | 40         | 16 | 1600                                       | <b>175 546 756</b> | 1.110 |  |  |  |  |  |  |  |  |
| 63        | 50         | 16 | 3100                                       | <b>175 546 757</b> | 2.150 |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | M  | e<br>[mm] |  |  |
|-----------|-----------|-----------|------------|------------|-----------|------------|------------|------------|------------|------------|----|-----------|--|--|
| 20        | 50        | 57        | 27         | 12         | 130       | 77         | 56         | 25         | 32         | 45         | M6 | 1,9       |  |  |
| 25        | 58        | 67        | 30         | 12         | 143       | 97         | 65         | 25         | 39         | 58         | M6 | 1,9       |  |  |
| 32        | 68        | 73        | 36         | 12         | 150       | 97         | 71         | 25         | 39         | 58         | M6 | 2,4       |  |  |
| 40        | 84        | 90        | 44         | 15         | 171       | 128        | 85         | 45         | 54         | 74         | M8 | 2,4       |  |  |
| 50        | 97        | 97        | 51         | 15         | 191       | 128        | 89         | 45         | 54         | 74         | M8 | 3         |  |  |
| 63        | 124       | 116       | 64         | 15         | 220       | 152        | 101        | 45         | 66         | 87         | M8 | 3         |  |  |

# Copiable

## Configurator +GF+ Ball Valve Type 546 PVDF

### Ball valve

A01 Ball valve 546

### Material

B15 PVDF

### Dimension

C05 d 16 DN 10 3/8"  
C06 d 20 DN 15 1/2"  
C07 d 25 DN 20 3/4"  
C08 d 32 DN 25 1"  
C09 d 40 DN 32 1 1/4"  
C10 d 50 DN 40 1 1/2"  
C11 d 63 DN 50 2"

### Version

D01 standard, PTFE ball seal  
D02 oil-free, PTFE ball seal (only with specific connecting parts)  
D04 silicon-free, PVDF ball seal (only with specific connecting parts)

### Seals

E01 EPDM seals  
E02 FPM seals

### Threaded inserts

F01 without threaded inserts  
F02 with threaded inserts

### Connecting parts

G50 PVDF Fusion socket metric  
G51 PVDF Socket fusion spigot metric  
G52 PVDF Butt fusion spigot IR Plus® metric  
G53 PVDF Threaded socket NPT  
G64 Fixed flange PVDF serrated metric

### Multi-functional module

I01 No multi-functional module  
I02 Empty module  
I03 Module with 2 limit switches Ag, Ni  
I04 Module with 2 limit switches Au  
I05 Module with 2 inductive switches Namur  
I06 Module with 2 inductive switches PNP  
I07 Module with 2 inductive switches NPN

### Handle

K01 Standard handle red  
K02 Standard handle black  
K11 Multi-functional handle red

### Mounting plate

L01 without mounting plate  
L02 with mounting plate

|     |     |   |   |   |   |   |   |   |   |   |
|-----|-----|---|---|---|---|---|---|---|---|---|
| A01 | B15 | C | D | E | F | G | G | I | K | L |
|-----|-----|---|---|---|---|---|---|---|---|---|

left

right

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we put together a selection menu for you (the maximum working pressure of the whole valve is determined by the maximum permissible nominal pressure of the connecting part).

**We supply what you put together.**

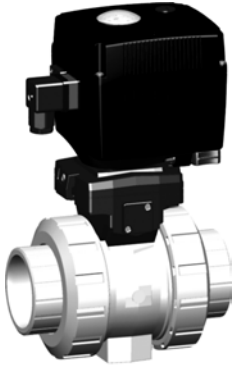
# Ball valves electric

**SYGEF® standard**

**Ball valve type 107 100-230V**

**With manual emergency override**

**With fusion sockets metric**



DN10/15 - 50

## Model:

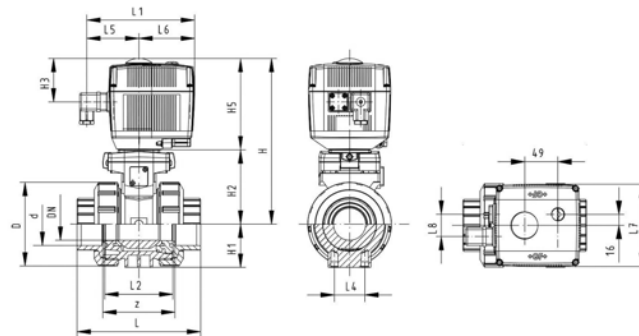
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

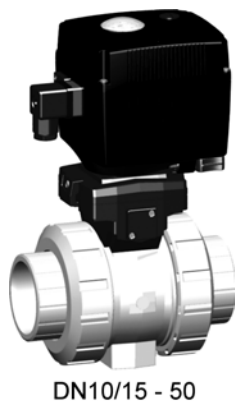
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |
|-----------|------------|----|--------------------------------------------|--------------------|-------|
| 16        | 10         | 10 | 70                                         | <b>199 107 802</b> | 2.100 |
| 20        | 15         | 10 | 185                                        | <b>199 107 803</b> | 2.100 |
| 25        | 20         | 10 | 350                                        | <b>199 107 804</b> | 2.200 |
| 32        | 25         | 10 | 700                                        | <b>199 107 805</b> | 2.300 |
| 40        | 32         | 10 | 1000                                       | <b>199 107 806</b> | 2.600 |
| 50        | 40         | 10 | 1600                                       | <b>199 107 807</b> | 3.000 |
| 63        | 50         | 10 | 3100                                       | <b>199 107 808</b> | 3.800 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 200       | 27         | 64         | 64         | 137        | 92        | 161        | 56         | 25         | 79         | 83         | 122        | 67         | 64        |
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 95        | 161        | 56         | 25         | 79         | 83         | 122        | 67         | 64        |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 110       | 161        | 65         | 25         | 79         | 83         | 122        | 67         | 72        |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 123       | 161        | 71         | 25         | 79         | 83         | 122        | 67         | 79        |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 146       | 161        | 85         | 45         | 79         | 83         | 122        | 67         | 94        |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 157       | 161        | 89         | 45         | 79         | 83         | 122        | 67         | 95        |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 183       | 161        | 101        | 45         | 79         | 83         | 122        | 67         | 107       |





DN10/15 - 50

# SYGEF® standard Ball valve type 107 24V With manual emergency override With fusion sockets metric

## Model:

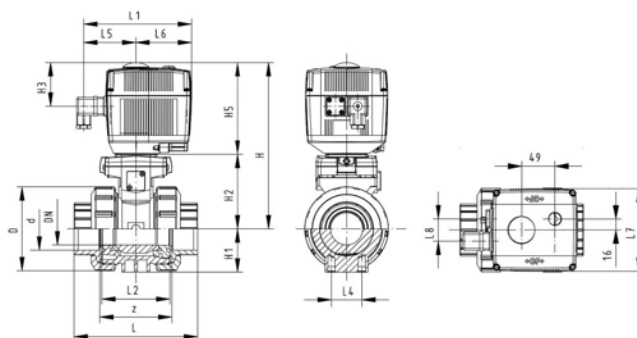
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

## Option:

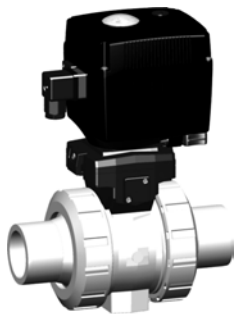
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                         | <b>199 107 822</b> | 2.100 |  |
| 20        | 15         | 10 | 185                                        | <b>199 107 823</b> | 2.100 |  |
| 25        | 20         | 10 | 350                                        | <b>199 107 824</b> | 2.200 |  |
| 32        | 25         | 10 | 700                                        | <b>199 107 825</b> | 2.300 |  |
| 40        | 32         | 10 | 1000                                       | <b>199 107 826</b> | 2.600 |  |
| 50        | 40         | 10 | 1600                                       | <b>199 107 827</b> | 3.000 |  |
| 63        | 50         | 10 | 3100                                       | <b>199 107 828</b> | 3.800 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|--|
| 16        | 50        | 200       | 27         | 64         | 64         | 137        | 92        | 161        | 56         | 25         | 79         | 83         | 122        | 67         | 64        |  |
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 95        | 161        | 56         | 25         | 79         | 83         | 122        | 67         | 64        |  |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 110       | 161        | 65         | 25         | 79         | 83         | 122        | 67         | 72        |  |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 123       | 161        | 71         | 25         | 79         | 83         | 122        | 67         | 79        |  |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 146       | 161        | 85         | 45         | 79         | 83         | 122        | 67         | 94        |  |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 157       | 161        | 89         | 45         | 79         | 83         | 122        | 67         | 95        |  |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 183       | 161        | 101        | 45         | 79         | 83         | 122        | 67         | 107       |  |







DN10/15 - 50

# SYGEF® standard Ball valve type 107 100-230V With manual emergency override With fusion spigots metric

## Model:

- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

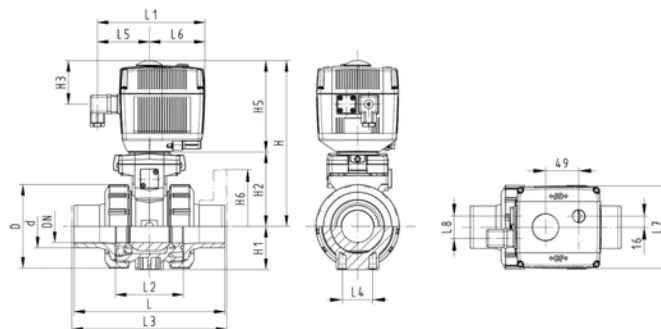
## Option:

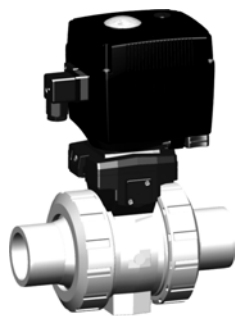
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                | <b>199 107 812</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                               | <b>199 107 813</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                               | <b>199 107 814</b> | 2.200 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                               | <b>199 107 815</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                              | <b>199 107 816</b> | 2.600 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                              | <b>199 107 817</b> | 3.000 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                              | <b>199 107 818</b> | 3.800 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 200       | 27         | 64         | 64         | 137        | 114       | 161        | 56         | 0          | 25         | 79         | 83         | 122        | 67         |
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 124       | 161        | 56         | 130        | 25         | 79         | 83         | 122        | 67         |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 144       | 161        | 65         | 150        | 25         | 79         | 83         | 122        | 67         |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 154       | 161        | 71         | 160        | 25         | 79         | 83         | 122        | 67         |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 174       | 161        | 85         | 180        | 45         | 79         | 83         | 122        | 67         |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 194       | 161        | 89         | 200        | 45         | 79         | 83         | 122        | 67         |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 224       | 161        | 101        | 230        | 45         | 79         | 83         | 122        | 67         |





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## SYGEF® standard

### Ball valve type 107 24V

### With manual emergency override

### With fusion spigots metric

#### Model:

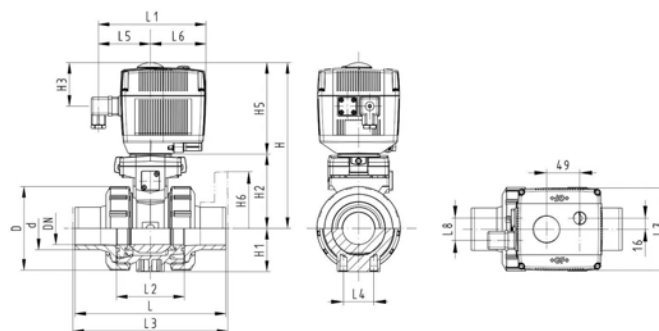
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

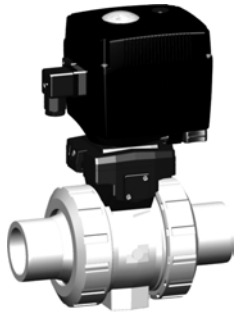
#### Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                         | <b>199 107 832</b> | 2.100 |  |
| 20        | 15         | 10 | 185                                        | <b>199 107 833</b> | 2.100 |  |
| 25        | 20         | 10 | 350                                        | <b>199 107 834</b> | 2.200 |  |
| 32        | 25         | 10 | 700                                        | <b>199 107 835</b> | 2.300 |  |
| 40        | 32         | 10 | 1000                                       | <b>199 107 836</b> | 2.600 |  |
| 50        | 40         | 10 | 1600                                       | <b>199 107 837</b> | 3.000 |  |
| 63        | 50         | 10 | 3100                                       | <b>199 107 838</b> | 3.800 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| 16        | 50        | 200       | 27         | 64         | 64         | 137        | 114       | 161        | 56         | 0          | 25         | 79         | 83         | 122        | 67         |  |
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 124       | 161        | 56         | 130        | 25         | 79         | 83         | 122        | 67         |  |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 144       | 161        | 65         | 150        | 25         | 79         | 83         | 122        | 67         |  |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 154       | 161        | 71         | 160        | 25         | 79         | 83         | 122        | 67         |  |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 174       | 161        | 85         | 180        | 45         | 79         | 83         | 122        | 67         |  |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 194       | 161        | 89         | 200        | 45         | 79         | 83         | 122        | 67         |  |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 224       | 161        | 101        | 230        | 45         | 79         | 83         | 122        | 67         |  |





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# SYGEF® standard Ball valve type 107 100-230V With manual emergency override With butt fusion spigots metric

## Model:

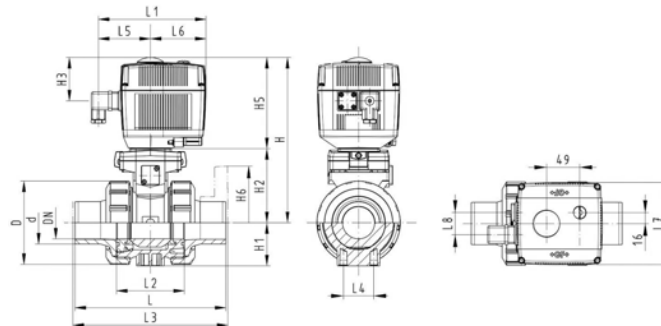
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

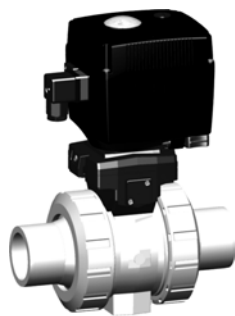
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 107 423</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 107 424</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 107 425</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 107 426</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 107 427</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 107 428</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 130       | 161        | 56         | 25         | 79         | 83         | 122        | 67         |  |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 143       | 161        | 65         | 25         | 79         | 83         | 122        | 67         |  |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 150       | 161        | 71         | 25         | 79         | 83         | 122        | 67         |  |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 171       | 161        | 85         | 45         | 79         | 83         | 122        | 67         |  |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 191       | 161        | 89         | 45         | 79         | 83         | 122        | 67         |  |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 220       | 161        | 101        | 45         | 79         | 83         | 122        | 67         |  |





DN10/15 - 50

# SYGEF® standard Ball valve type 107 24V With manual emergency override With butt fusion spigots metric

## Model:

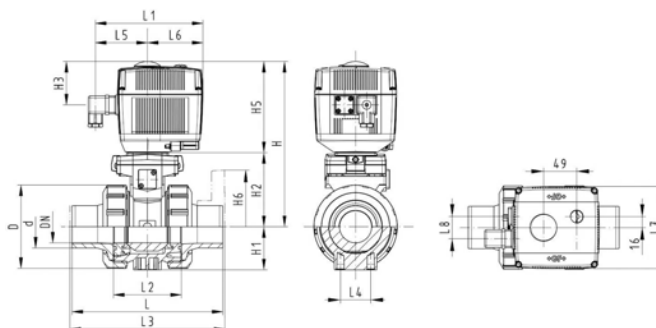
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

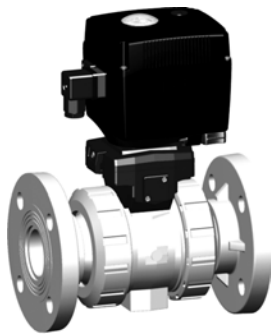
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 107 433</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 107 434</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 107 435</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 107 436</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 107 437</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 107 438</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 200       | 27         | 64         | 64         | 137        | 130       | 161        | 56         | 25         | 79         | 83         | 122        | 67         |  |
| 25        | 58        | 209       | 30         | 73         | 64         | 137        | 143       | 161        | 65         | 25         | 79         | 83         | 122        | 67         |  |
| 32        | 68        | 209       | 36         | 73         | 64         | 137        | 150       | 161        | 71         | 25         | 79         | 83         | 122        | 67         |  |
| 40        | 84        | 220       | 44         | 84         | 64         | 137        | 171       | 161        | 85         | 45         | 79         | 83         | 122        | 67         |  |
| 50        | 97        | 220       | 51         | 84         | 64         | 137        | 191       | 161        | 89         | 45         | 79         | 83         | 122        | 67         |  |
| 63        | 124       | 243       | 64         | 106        | 64         | 137        | 220       | 161        | 101        | 45         | 79         | 83         | 122        | 67         |  |





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# SYGEF® standard Ball valve type 107 100-230V With manual emergency override With fixed flanges PVDF serrated metric

## Model:

- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

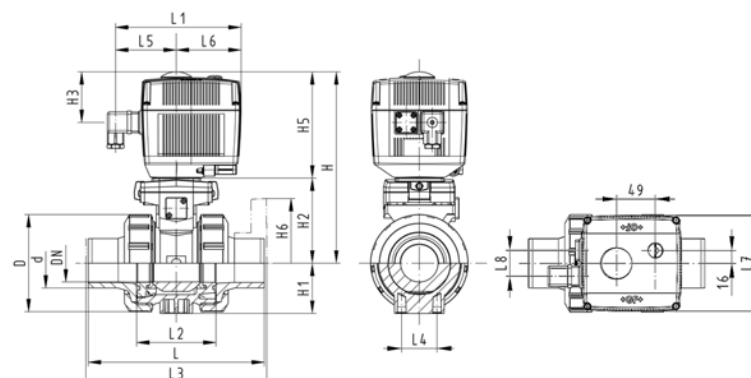
## Option:

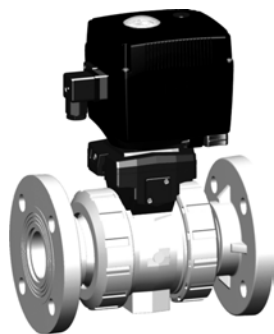
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 107 843</b> | 2.300 |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 107 844</b> | 2.500 |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 107 845</b> | 2.700 |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 107 846</b> | 3.200 |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 107 847</b> | 3.700 |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 107 848</b> | 4.800 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 201       | 27         | 64         | 65         | 138        | 48         | 124       | 160        | 56         | 130        | 25         | 77         | 83         | 122        |
| 25        | 58        | 210       | 30         | 73         | 65         | 138        | 53         | 144       | 160        | 65         | 150        | 25         | 77         | 83         | 122        |
| 32        | 68        | 210       | 36         | 73         | 65         | 138        | 58         | 154       | 160        | 71         | 160        | 25         | 77         | 83         | 122        |
| 40        | 84        | 221       | 44         | 84         | 65         | 138        | 70         | 174       | 160        | 85         | 180        | 45         | 77         | 83         | 122        |
| 50        | 97        | 221       | 51         | 84         | 65         | 138        | 75         | 194       | 160        | 89         | 200        | 45         | 77         | 83         | 122        |
| 63        | 124       | 244       | 64         | 106        | 65         | 138        | 83         | 224       | 160        | 101        | 230        | 45         | 77         | 83         | 122        |

| d<br>[mm] | L8<br>[mm] |
|-----------|------------|
| 20        | 33         |
| 25        | 33         |
| 32        | 33         |
| 40        | 33         |
| 50        | 33         |
| 63        | 33         |





DN10/15 - 50

# SYGEF® standard Ball valve type 107 24V With manual emergency override With fixed flanges PVDF serrated metric

## Model:

- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

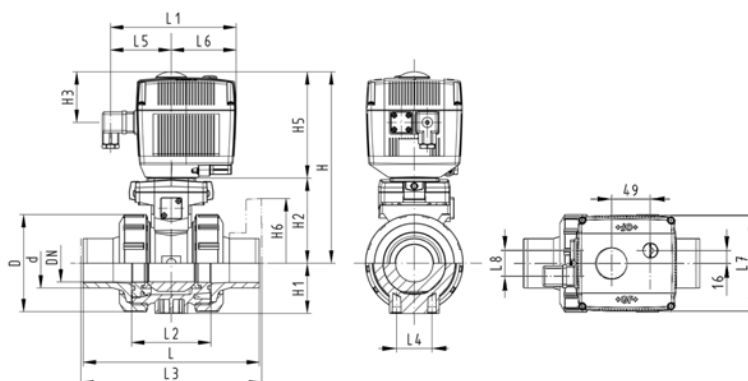
## Option:

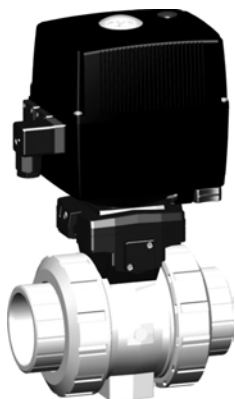
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 107 853</b> | 2.300 |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 107 854</b> | 2.500 |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 107 855</b> | 2.700 |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 107 856</b> | 3.200 |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 107 857</b> | 3.700 |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 107 858</b> | 4.800 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 201       | 27         | 64         | 65         | 138        | 48         | 124       | 160        | 56         | 130        | 25         | 77         | 83         | 122        |
| 25        | 58        | 210       | 30         | 73         | 65         | 138        | 53         | 144       | 160        | 65         | 150        | 25         | 77         | 83         | 122        |
| 32        | 68        | 210       | 36         | 73         | 65         | 138        | 58         | 154       | 160        | 71         | 160        | 25         | 77         | 83         | 122        |
| 40        | 84        | 221       | 44         | 84         | 65         | 138        | 70         | 174       | 160        | 85         | 180        | 45         | 77         | 83         | 122        |
| 50        | 97        | 221       | 51         | 84         | 65         | 138        | 75         | 194       | 160        | 89         | 200        | 45         | 77         | 83         | 122        |
| 63        | 124       | 244       | 64         | 106        | 65         | 138        | 83         | 224       | 160        | 101        | 230        | 45         | 77         | 83         | 122        |

| d<br>[mm] | L8<br>[mm] |
|-----------|------------|
| 20        | 33         |
| 25        | 33         |
| 32        | 33         |
| 40        | 33         |
| 50        | 33         |
| 63        | 33         |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 100-230V With manual emergency override With fusion sockets metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

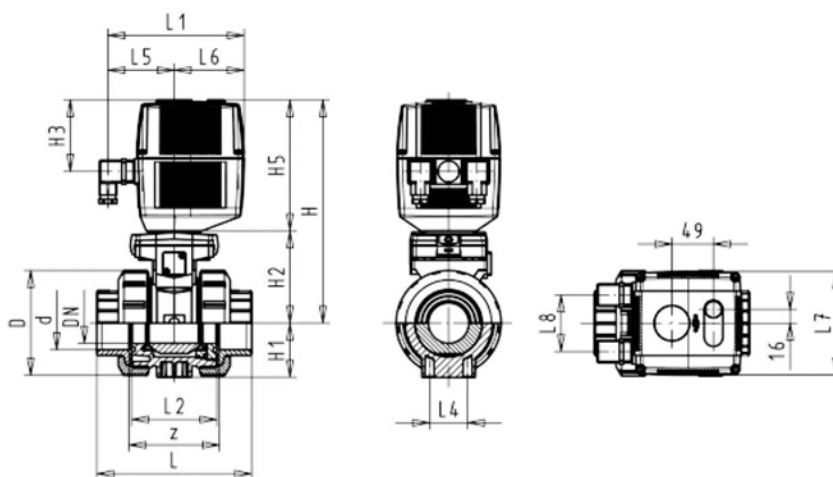
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 132 012</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 132 013</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 014</b> | 2.200 |  |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 015</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 016</b> | 2.600 |  |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 017</b> | 3.000 |  |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 018</b> | 3.800 |  |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 231       | 27         | 64         | 94         | 167        | 92        | 180        | 56         | 25         | 97         | 83         | 122        | 66         | 64        |
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 95        | 180        | 56         | 25         | 97         | 83         | 122        | 66         | 64        |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 110       | 180        | 65         | 25         | 97         | 83         | 122        | 66         | 72        |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 123       | 180        | 71         | 25         | 97         | 83         | 122        | 66         | 79        |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 146       | 180        | 85         | 45         | 97         | 83         | 122        | 66         | 94        |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 157       | 180        | 89         | 45         | 97         | 83         | 122        | 66         | 95        |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 183       | 180        | 101        | 45         | 97         | 83         | 122        | 66         | 107       |





# SYGEF® standard Ball valve type 132 24V With manual emergency override With fusion sockets metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

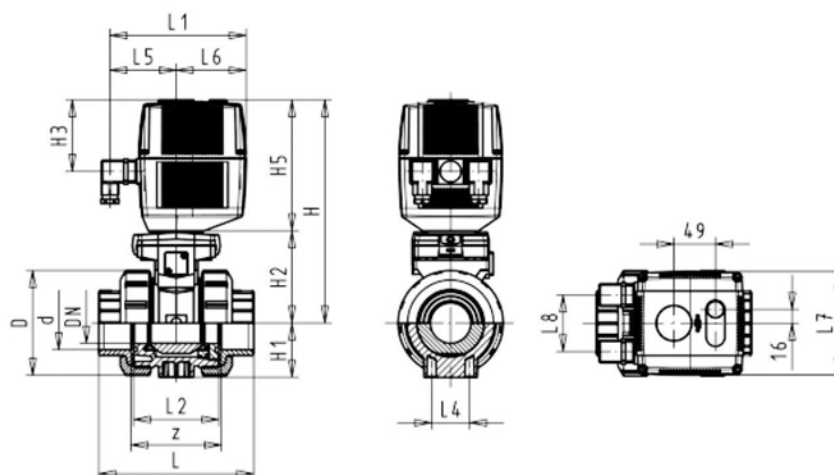
## Option:

- Individual configuration of the valve (see form)

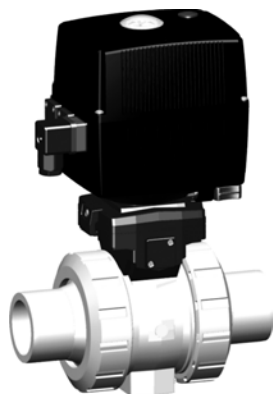
| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 132 052</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 132 053</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 054</b> | 2.200 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 055</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 056</b> | 2.600 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 057</b> | 3.000 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 058</b> | 3.800 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 231       | 27         | 64         | 94         | 167        | 92        | 180        | 56         | 25         | 97         | 83         | 122        | 66         | 64        |
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 95        | 180        | 56         | 25         | 97         | 83         | 122        | 66         | 64        |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 110       | 180        | 65         | 25         | 97         | 83         | 122        | 66         | 72        |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 123       | 180        | 71         | 25         | 97         | 83         | 122        | 66         | 79        |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 146       | 180        | 85         | 45         | 97         | 83         | 122        | 66         | 94        |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 157       | 180        | 89         | 45         | 97         | 83         | 122        | 66         | 95        |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 183       | 180        | 101        | 45         | 97         | 83         | 122        | 66         | 107       |







DN10/15 - 50

## SYGEF® standard

### Ball valve type 132 100-230V

### With manual emergency override

### With fusion spigots metric

#### Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

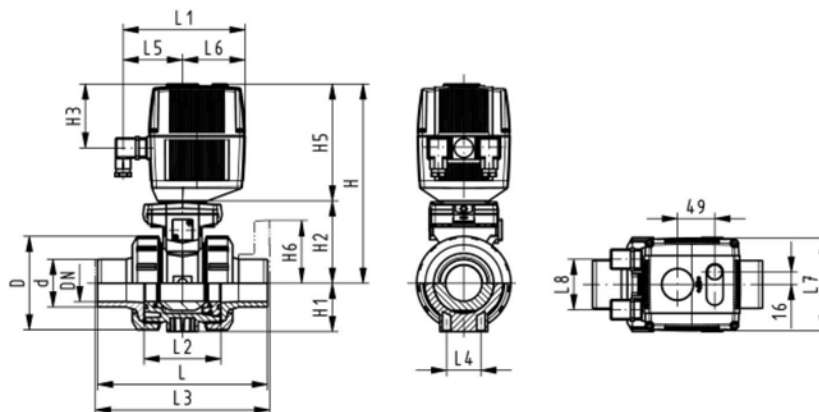
#### Option:

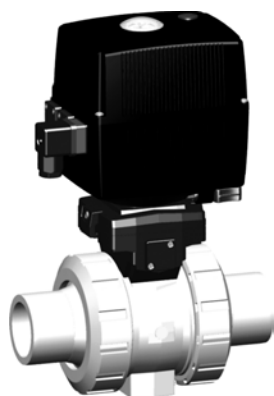
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 132 032</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 132 033</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 034</b> | 2.200 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 035</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 036</b> | 2.600 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 037</b> | 3.000 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 038</b> | 3.800 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 231       | 27         | 64         | 94         | 167        | 114       | 180        | 56         | 130        | 25         | 97         | 83         | 122        | 66         |
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 124       | 180        | 56         | 130        | 25         | 97         | 83         | 122        | 66         |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 144       | 180        | 65         | 150        | 25         | 97         | 83         | 122        | 66         |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 154       | 180        | 71         | 160        | 25         | 97         | 83         | 122        | 66         |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 174       | 180        | 85         | 180        | 45         | 97         | 83         | 122        | 66         |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 194       | 180        | 89         | 200        | 45         | 97         | 83         | 122        | 66         |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 224       | 180        | 101        | 230        | 45         | 97         | 83         | 122        | 66         |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 24V With manual emergency override With fusion spigots metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

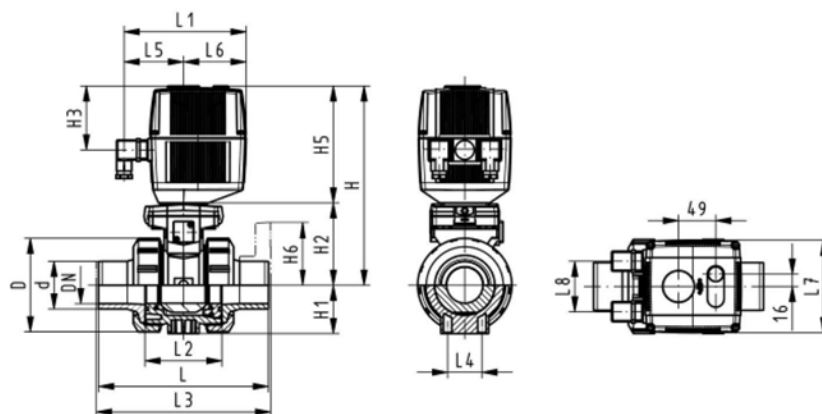
## Option:

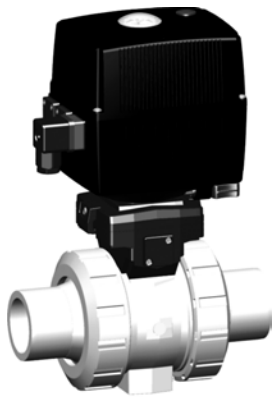
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 132 072</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 132 073</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 074</b> | 2.200 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 075</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 076</b> | 2.600 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 077</b> | 3.000 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 078</b> | 3.800 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 231       | 27         | 64         | 94         | 167        | 114       | 180        | 56         | 130        | 25         | 97         | 83         | 122        | 66         |
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 124       | 180        | 56         | 130        | 25         | 97         | 83         | 122        | 66         |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 144       | 180        | 65         | 150        | 25         | 97         | 83         | 122        | 66         |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 154       | 180        | 71         | 160        | 25         | 97         | 83         | 122        | 66         |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 174       | 180        | 85         | 180        | 45         | 97         | 83         | 122        | 66         |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 194       | 180        | 89         | 200        | 45         | 97         | 83         | 122        | 66         |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 224       | 180        | 101        | 230        | 45         | 97         | 83         | 122        | 66         |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 100-230V With manual emergency override With butt fusion spigots metric

## Model:

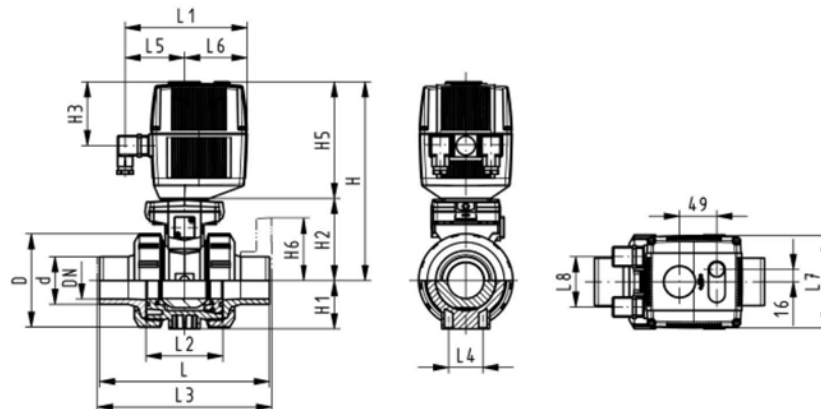
- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

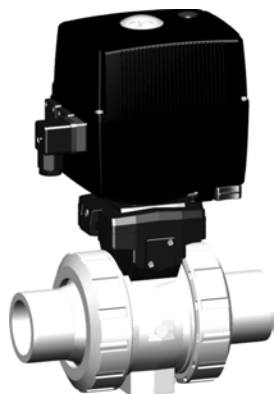
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 132 113</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 114</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 115</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 116</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 117</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 118</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 130       | 180        | 56         | 25         | 97         | 83         | 122        | 66         |  |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 143       | 180        | 65         | 25         | 97         | 83         | 122        | 66         |  |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 150       | 180        | 71         | 25         | 97         | 83         | 122        | 66         |  |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 171       | 180        | 85         | 45         | 97         | 83         | 122        | 66         |  |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 191       | 180        | 89         | 45         | 97         | 83         | 122        | 66         |  |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 220       | 180        | 101        | 45         | 97         | 83         | 122        | 66         |  |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 24V With manual emergency override With butt fusion spigots metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

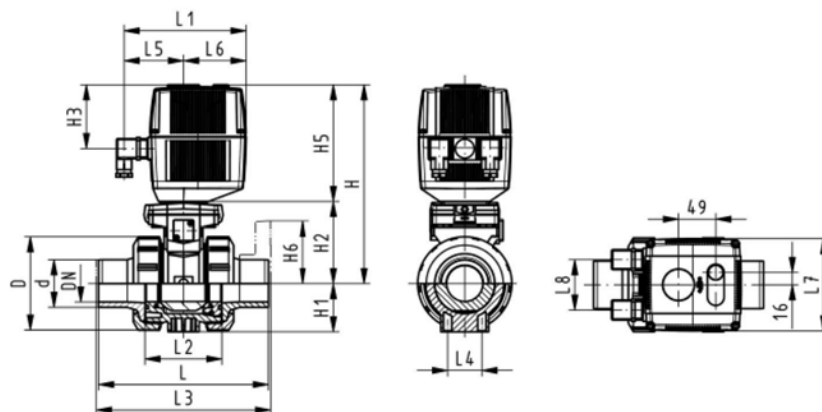
## Option:

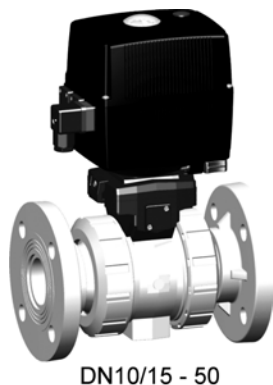
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | 10 | 185                                        | <b>199 132 153</b> |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 132 154</b> |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 132 155</b> |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 132 156</b> |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 132 157</b> |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 132 158</b> |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | L8<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 130       | 180        | 56         | 25         | 97         | 83         | 122        | 66         |  |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 143       | 180        | 65         | 25         | 97         | 83         | 122        | 66         |  |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 150       | 180        | 71         | 25         | 97         | 83         | 122        | 66         |  |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 171       | 180        | 85         | 45         | 97         | 83         | 122        | 66         |  |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 191       | 180        | 89         | 45         | 97         | 83         | 122        | 66         |  |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 220       | 180        | 101        | 45         | 97         | 83         | 122        | 66         |  |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 100-230V With manual emergency override With fixed flanges PVDF serrated metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

## Option:

- Individual configuration of the valve (see form)

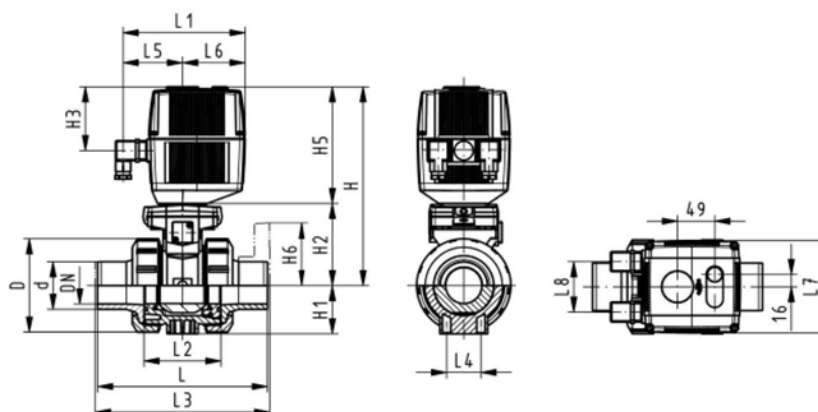
| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 132 083</b> | 2.300 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 132 084</b> | 2.500 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 132 085</b> | 2.700 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 132 086</b> | 3.200 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 132 087</b> | 3.700 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 132 088</b> | 4.800 |  |  |  |  |  |  |  |  |  |  |

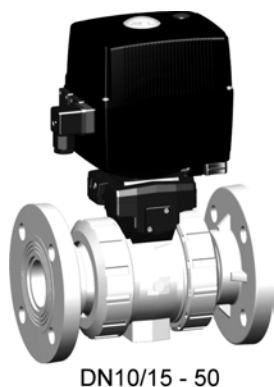
  

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 48         | 124       | 180        | 56         | 130        | 25         | 98         | 83         | 122        |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 53         | 144       | 180        | 65         | 150        | 25         | 97         | 83         | 122        |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 58         | 154       | 180        | 71         | 160        | 25         | 97         | 83         | 122        |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 70         | 174       | 180        | 85         | 180        | 45         | 97         | 83         | 122        |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 75         | 194       | 180        | 89         | 200        | 45         | 98         | 83         | 122        |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 83         | 224       | 180        | 101        | 230        | 45         | 97         | 83         | 122        |

| d<br>[mm] | L8<br>[mm] |
|-----------|------------|
| 20        | 66         |
| 25        | 66         |
| 32        | 66         |
| 40        | 66         |
| 50        | 66         |
| 63        | 66         |





DN10/15 - 50

# SYGEF® standard Ball valve type 132 24V With manual emergency override With fixed flanges PVDF serrated metric

## Model:

- Assignment of actuators EA21 (DN10/15-50), EA31 (DN65-100 if available)
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

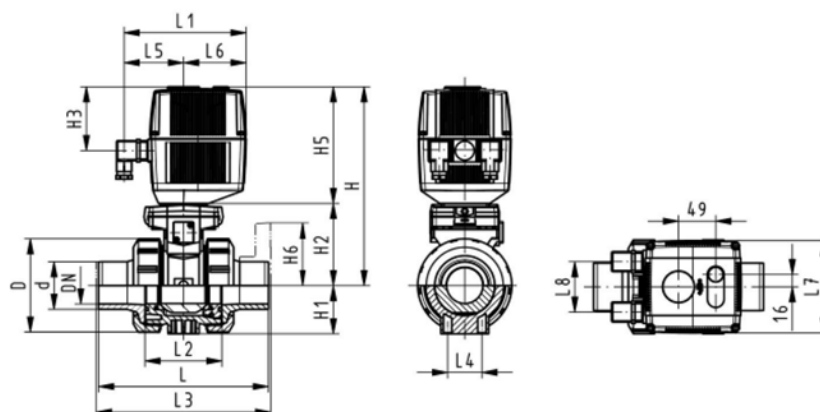
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 132 093</b> | 2.300 |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 132 094</b> | 2.500 |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 132 095</b> | 2.700 |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 132 096</b> | 3.200 |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 132 097</b> | 3.700 |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 132 098</b> | 4.800 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 231       | 27         | 64         | 94         | 167        | 48         | 124       | 180        | 56         | 130        | 25         | 98         | 83         | 122        |
| 25        | 58        | 240       | 30         | 73         | 94         | 167        | 53         | 144       | 180        | 65         | 150        | 25         | 97         | 83         | 122        |
| 32        | 68        | 240       | 36         | 73         | 94         | 167        | 58         | 154       | 180        | 71         | 160        | 25         | 97         | 83         | 122        |
| 40        | 84        | 251       | 44         | 84         | 94         | 167        | 70         | 174       | 180        | 85         | 180        | 45         | 97         | 83         | 122        |
| 50        | 97        | 251       | 51         | 84         | 94         | 167        | 75         | 194       | 180        | 89         | 200        | 45         | 98         | 83         | 122        |
| 63        | 124       | 273       | 64         | 106        | 94         | 167        | 83         | 224       | 180        | 101        | 230        | 45         | 97         | 83         | 122        |

| d<br>[mm] | L8<br>[mm] |
|-----------|------------|
| 20        | 66         |
| 25        | 66         |
| 32        | 66         |
| 40        | 66         |
| 50        | 66         |
| 63        | 66         |



# Copiable

## Configurator +GF+ Ball Valve Type 546 PVDF

### Ball valve

A01 Ball valve 546

### Material

B15 PVDF

### Dimension

C05 d 16 DN 10 3/8"  
C06 d 20 DN 15 1/2"  
C07 d 25 DN 20 3/4"  
C08 d 32 DN 25 1"  
C09 d 40 DN 32 1 1/4"  
C10 d 50 DN 40 1 1/2"  
C11 d 63 DN 50 2"

### Version

D01 standard, PTFE ball seal  
D02 oil-free, PTFE ball seal (only with specific connecting parts)  
D04 silicon-free, PVDF ball seal (only with specific connecting parts)

### Seals

E01 EPDM seals  
E02 FPM seals

### Threaded inserts

F01 without threaded inserts  
F02 with threaded inserts

### Connecting parts

G50 PVDF Fusion socket metric  
G51 PVDF Socket fusion spigot metric  
G52 PVDF Butt fusion spigot IR Plus® metric  
G53 PVDF Threaded socket NPT  
G64 Fixed flange PVDF serrated metric

### Multi-functional module

I01 No multi-functional module  
I02 Empty module  
I03 Module with 2 limit switches Ag, Ni  
I04 Module with 2 limit switches Au  
I05 Module with 2 inductive switches Namur  
I06 Module with 2 inductive switches PNP  
I07 Module with 2 inductive switches NPN

### Handle

K01 Standard handle red  
K02 Standard handle black  
K11 Multi-functional handle red

### Mounting plate

L01 without mounting plate  
L02 with mounting plate

|     |     |   |   |   |   |   |   |   |   |   |
|-----|-----|---|---|---|---|---|---|---|---|---|
| A01 | B15 | C | D | E | F | G | G | I | K | L |
|-----|-----|---|---|---|---|---|---|---|---|---|

left

right

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we put together a selection menu for you (the maximum working pressure of the whole valve is determined by the maximum permissible nominal pressure of the connecting part).

**We supply what you put together.**

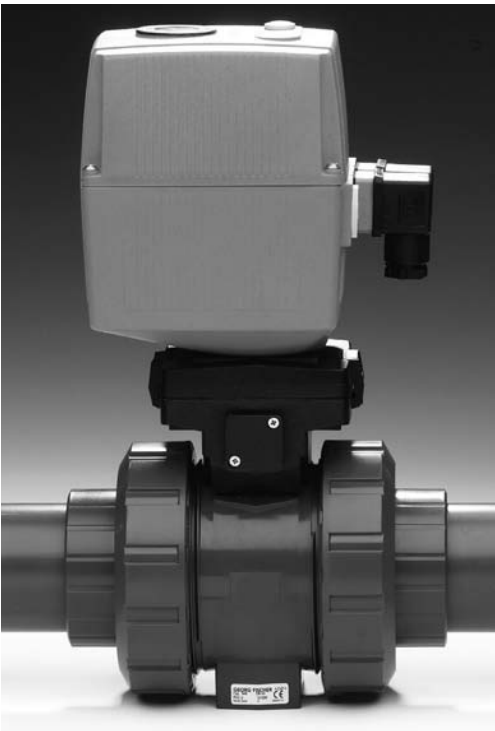
# Copiable

## GF ball valve type 546 with electric Actuator

### It's easy to actuate the type 546:

With the configurator, you have a choice of new electric actuators, the EA11 for standard applications and the EA21 with modular design and accessories, for practically and type of operation.

**We supply what you put together.**



|                           |                                                      |   |   |   |   |   |   |   |
|---------------------------|------------------------------------------------------|---|---|---|---|---|---|---|
| Electric Actuator EA11    |                                                      |   |   |   |   |   |   |   |
| T01                       | EA11 24 V                                            |   |   |   |   |   |   |   |
| T02                       | EA11 100–230 V                                       |   |   |   |   |   |   |   |
| Accessories EA11          |                                                      |   |   |   |   |   |   |   |
| U01                       | No accessories                                       |   |   |   |   |   |   |   |
| U02                       | 2 limit switches Ag, Ni                              |   |   |   |   |   |   |   |
| U03                       | Heating element                                      |   |   |   |   |   |   |   |
| U04                       | Fail-safe return                                     |   |   |   |   |   |   |   |
| U05                       | 2 limit switches Ag, Ni normally open                |   |   |   |   |   |   |   |
| Electric Actuator EA21/31 |                                                      |   |   |   |   |   |   |   |
| T03                       | EA21/31 24 V                                         |   |   |   |   |   |   |   |
| T04                       | EA21/31 100–230 V                                    |   |   |   |   |   |   |   |
| Accessories EA21          |                                                      |   |   |   |   |   |   |   |
| W01                       | No accessories                                       |   |   |   |   |   |   |   |
| W02                       | Heating element                                      |   |   |   |   |   |   |   |
| W03                       | Cycle time module                                    |   |   |   |   |   |   |   |
| W04                       | Cycle time monitoring                                |   |   |   |   |   |   |   |
| W05                       | Cycles monitoring                                    |   |   |   |   |   |   |   |
| W06                       | Motor current monitoring                             |   |   |   |   |   |   |   |
| W07                       | 2 limit switches Ag, Ni                              |   |   |   |   |   |   |   |
| W08                       | 2 limit switches Gold                                |   |   |   |   |   |   |   |
| W09                       | 2 limit switches NPN                                 |   |   |   |   |   |   |   |
| W10                       | 2 limit switches PNP                                 |   |   |   |   |   |   |   |
| W11                       | Positioner                                           |   |   |   |   |   |   |   |
| W12                       | Electric position indicator                          |   |   |   |   |   |   |   |
| W14                       | Fail-safe return unit                                |   |   |   |   |   |   |   |
| W15                       | Switch intermediate position                         |   |   |   |   |   |   |   |
| W27                       | 2 limit switches Ag, Ni normally open with connector |   |   |   |   |   |   |   |
| W31                       | Positioner PE25 with galv. separation                |   |   |   |   |   |   |   |
|                           |                                                      |   |   |   |   |   |   |   |
| T                         | U                                                    | T | W | W | W | W | W | W |



# Ball valves pneumatic

**SYGEF® standard**

**Ball valve type 232**

**Function FC (Fail safe to close)**

**With manual override**

**With fusion Sockets metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

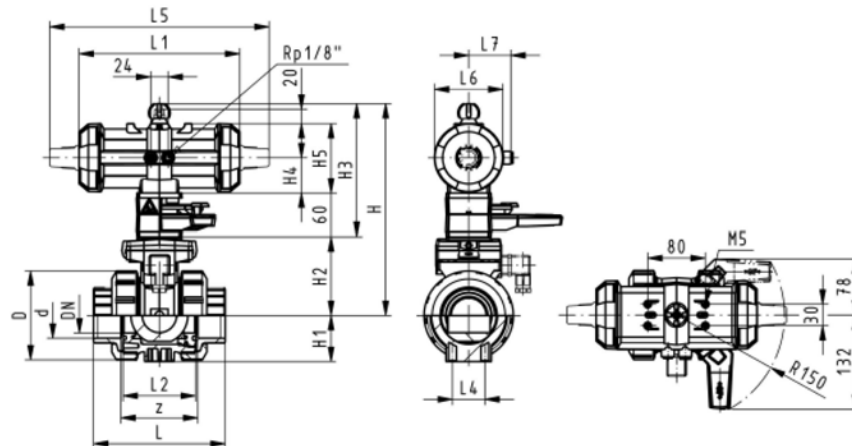
- Individual configuration of the valve (see form)



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| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |
|-----------|------------|----|-----------------------------------|--------------------|-------|
| 16        | 10         | 10 | 70                                | <b>199 232 012</b> | 1.500 |
| 20        | 15         | 10 | 185                               | <b>199 232 013</b> | 1.500 |
| 25        | 20         | 10 | 350                               | <b>199 232 014</b> | 1.600 |
| 32        | 25         | 10 | 700                               | <b>199 232 015</b> | 1.700 |
| 40        | 32         | 10 | 1000                              | <b>199 232 016</b> | 2.800 |
| 50        | 40         | 10 | 1600                              | <b>199 232 017</b> | 3.100 |
| 63        | 50         | 10 | 3100                              | <b>199 232 018</b> | 4.000 |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**With manual override**  
**With fusion sockets metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

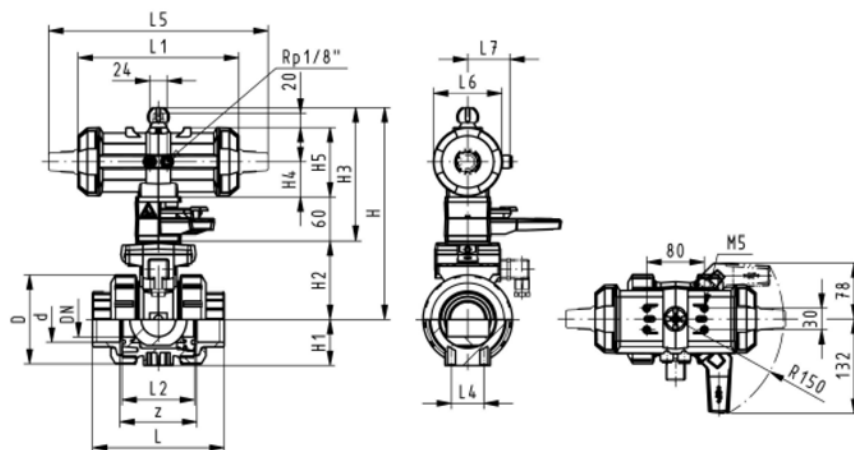
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 052</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 053</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 054</b> | 1.600 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 055</b> | 1.700 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 056</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 057</b> | 3.100 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 058</b> | 4.000 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function DA (Double acting)**  
**With manual override**  
**With fusion sockets metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

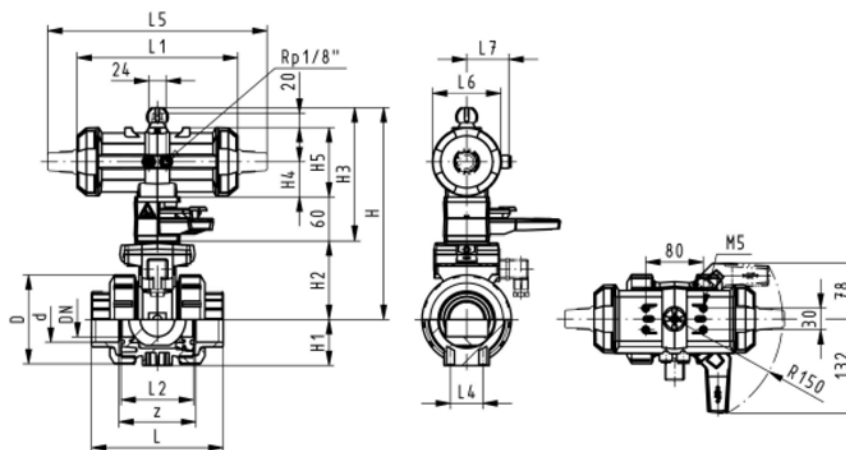
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 092</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 093</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 094</b> | 1.600 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 095</b> | 1.700 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 096</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 097</b> | 3.100 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 098</b> | 4.000 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**With manual override**  
**With fusion spigots metric**

**Model:**

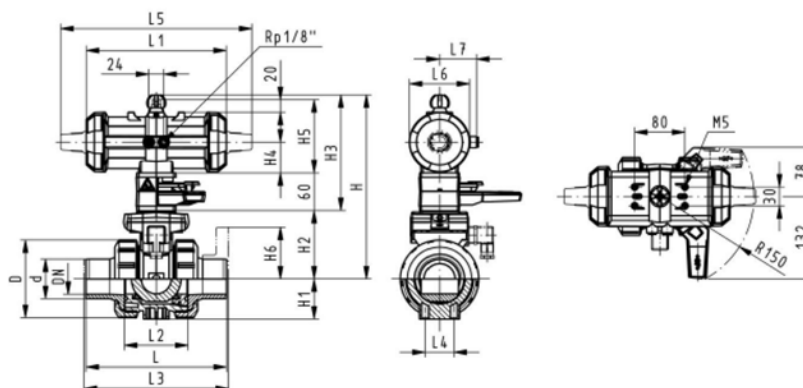
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 032</b> | 1.500 |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 033</b> | 1.500 |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 034</b> | 1.600 |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 035</b> | 1.700 |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 036</b> | 2.800 |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 037</b> | 3.100 |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 038</b> | 4.000 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**With manual override**  
**With fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

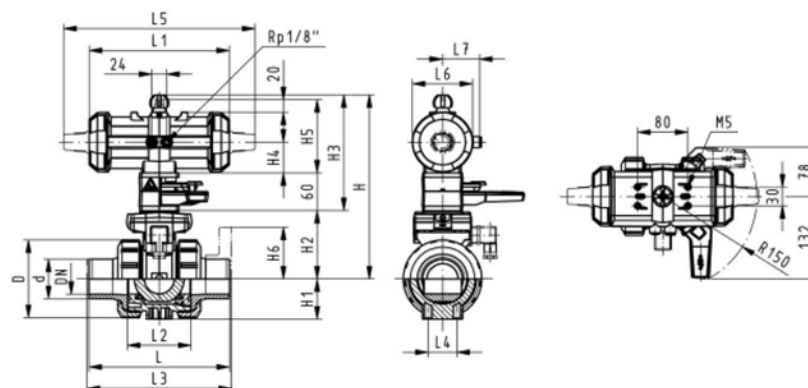
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 072</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 073</b> | 1.500 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 074</b> | 1.600 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 075</b> | 1.700 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 076</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 077</b> | 3.100 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 078</b> | 4.000 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |





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# **SYGEF® standard** **Ball valve type 232** **Function DA (Double acting)** **With manual override** **With fusion spigots metric**

## **Model:**

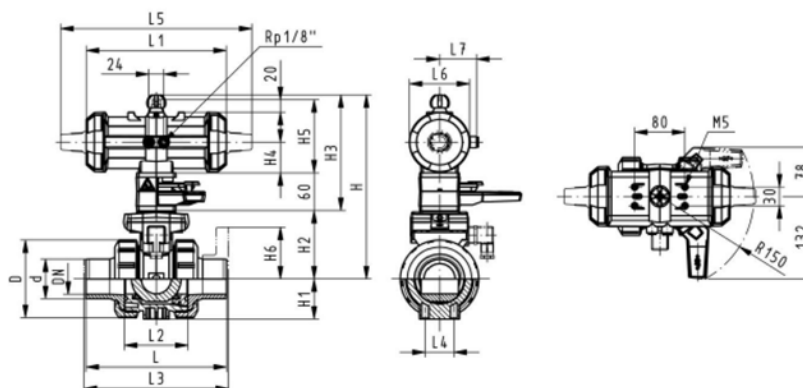
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

## **Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|-----------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                | <b>199 232 112</b> | 1.500 |  |
| 20        | 15         | 10 | 185                               | <b>199 232 113</b> | 1.500 |  |
| 25        | 20         | 10 | 350                               | <b>199 232 114</b> | 1.600 |  |
| 32        | 25         | 10 | 700                               | <b>199 232 115</b> | 1.700 |  |
| 40        | 32         | 10 | 1000                              | <b>199 232 116</b> | 2.800 |  |
| 50        | 40         | 10 | 1600                              | <b>199 232 117</b> | 3.100 |  |
| 63        | 50         | 10 | 3100                              | <b>199 232 118</b> | 4.000 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 16        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 92        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 95        | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 110       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 123       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 146       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 157       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 183       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**With manual override**  
**With butt fusion spigots metric**

**Model:**

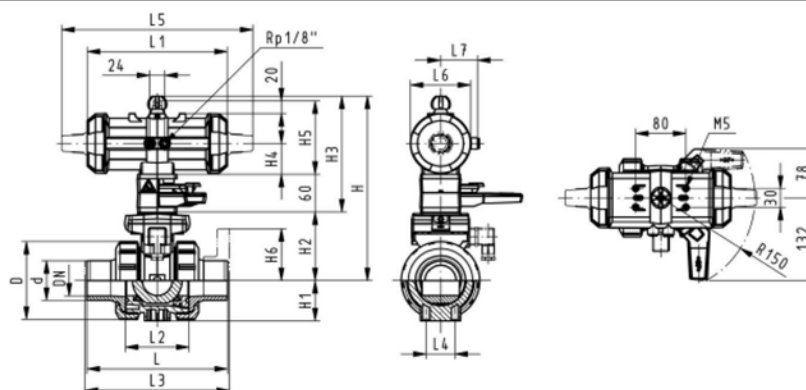
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 713</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 714</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 715</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 716</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 717</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 718</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |





DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**With manual override**  
**With butt fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

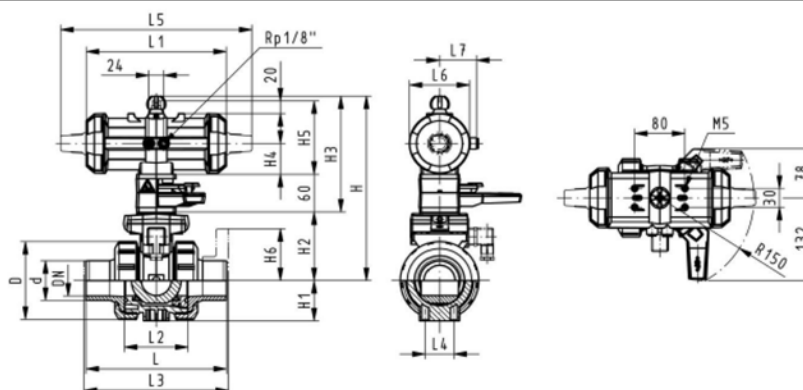
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 753</b> |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 754</b> |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 755</b> |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 756</b> |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 757</b> |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 758</b> |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |







DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function DA (Double acting)**  
**With manual override**  
**With butt fusion spigots metric**

**Model:**

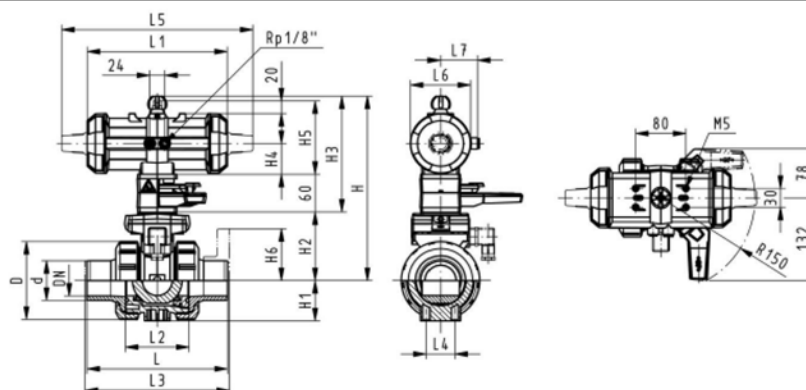
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

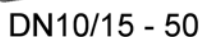
**Option:**

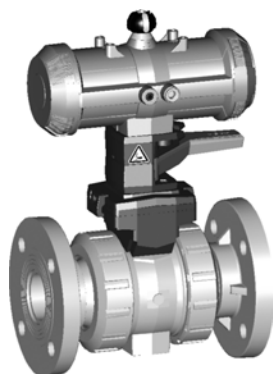
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 793</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 794</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 795</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 796</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 797</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 798</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |







DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**With manual override**  
**With fixed flanges PVDF serrated metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

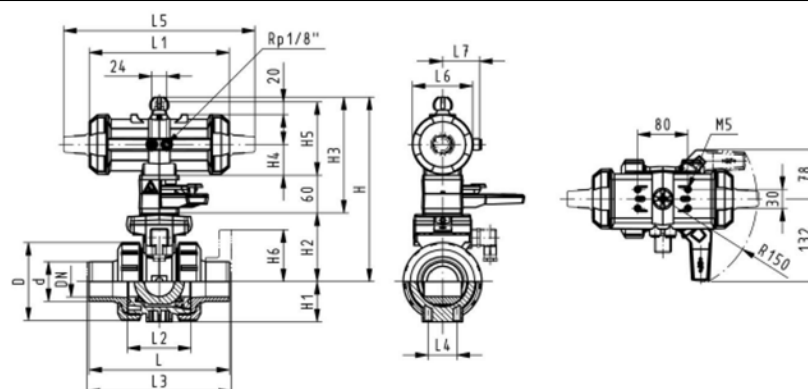
| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 232 023</b> | 1.700 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 232 024</b> | 1.900 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 232 025</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 232 026</b> | 3.400 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 232 027</b> | 3.900 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 232 028</b> | 5.000 |  |  |  |  |  |  |  |  |  |  |

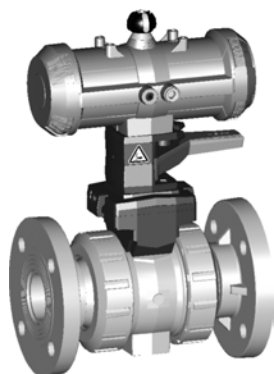
  

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 48         | 124       | 194        | 56         | 130        | 25         | 261        | 76         |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 53         | 144       | 194        | 65         | 150        | 25         | 261        | 76         |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 58         | 154       | 194        | 71         | 160        | 25         | 261        | 76         |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 70         | 174       | 224        | 85         | 180        | 45         | 305        | 95         |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 75         | 194       | 224        | 89         | 200        | 45         | 305        | 95         |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 83         | 224       | 224        | 101        | 230        | 45         | 305        | 95         |

| d<br>[mm] | L7<br>[mm] |
|-----------|------------|
| 20        | 48         |
| 25        | 48         |
| 32        | 48         |
| 40        | 59         |
| 50        | 59         |
| 63        | 59         |





DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function DA (Double acting)**  
**With manual override**  
**With fixed flanges PVDF serrated metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

**Option:**

- Individual configuration of the valve (see form)

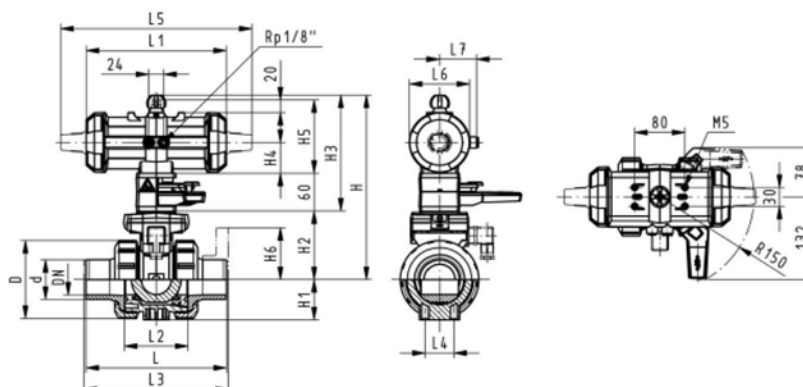
| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 232 043</b> | 1.700 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 232 044</b> | 1.900 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 232 045</b> | 2.100 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 232 046</b> | 3.400 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 232 047</b> | 3.900 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 232 048</b> | 5.000 |  |  |  |  |  |  |  |  |  |  |

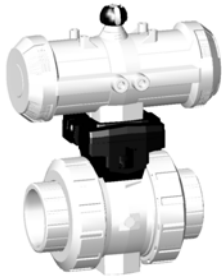
  

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H3<br>[mm] | H4<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 230       | 27         | 62         | 168        | 40         | 97         | 48         | 124       | 194        | 56         | 130        | 25         | 261        | 76         |
| 25        | 58        | 239       | 30         | 71         | 168        | 40         | 97         | 53         | 144       | 194        | 65         | 150        | 25         | 261        | 76         |
| 32        | 68        | 239       | 36         | 71         | 168        | 40         | 97         | 58         | 154       | 194        | 71         | 160        | 25         | 261        | 76         |
| 40        | 84        | 271       | 44         | 84         | 187        | 51         | 115        | 70         | 174       | 224        | 85         | 180        | 45         | 305        | 95         |
| 50        | 97        | 271       | 51         | 84         | 187        | 51         | 115        | 75         | 194       | 224        | 89         | 200        | 45         | 305        | 95         |
| 63        | 124       | 293       | 64         | 106        | 187        | 51         | 115        | 83         | 224       | 224        | 101        | 230        | 45         | 305        | 95         |

| d<br>[mm] | L7<br>[mm] |
|-----------|------------|
| 20        | 48         |
| 25        | 48         |
| 32        | 48         |
| 40        | 59         |
| 50        | 59         |
| 63        | 59         |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**Without manual override**  
**With fusion sockets metric**

**Model:**

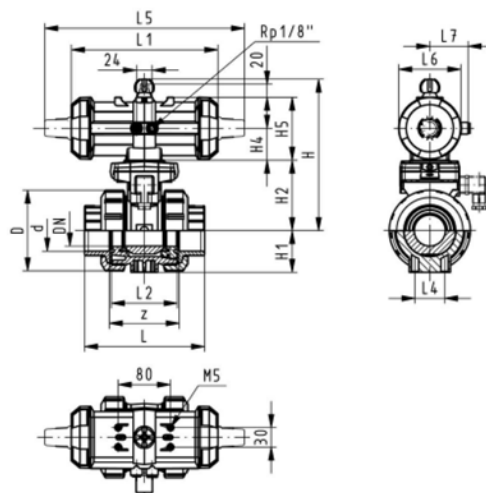
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 132</b> | 1.200 |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 133</b> | 1.200 |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 134</b> | 1.300 |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 135</b> | 1.400 |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 136</b> | 2.500 |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 137</b> | 2.800 |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 138</b> | 3.700 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |  |





DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**Without manual override**  
**With fusion sockets metric**

**Model:**

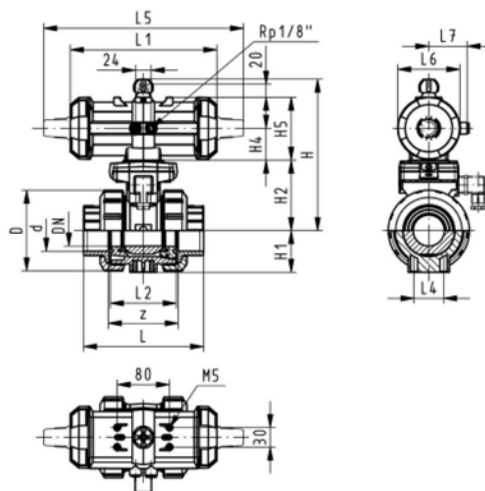
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 172</b> | 1.200 |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 173</b> | 1.200 |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 174</b> | 1.300 |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 175</b> | 1.400 |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 176</b> | 2.500 |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 177</b> | 2.800 |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 178</b> | 3.700 |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |  |





DN10/15 - 50

**SYGEF® standard**  
**Ball valve type 232**  
**Function DA (Double acting)**  
**Without manual override**  
**With fusion sockets metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

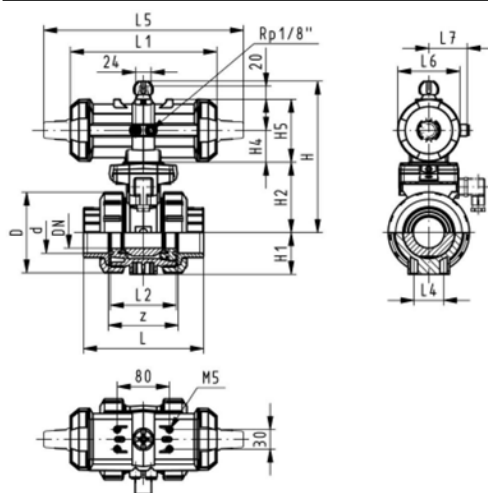
**Option:**

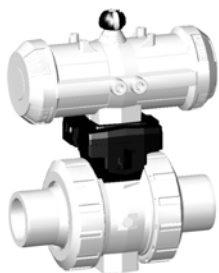
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 212</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 213</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 214</b> | 1.300 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 215</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 216</b> | 2.500 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 217</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 218</b> | 3.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] | z<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|-----------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 92        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 95        | 194        | 56         | 25         | 261        | 76         | 48         | 64        |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 110       | 194        | 65         | 25         | 261        | 76         | 48         | 72        |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 123       | 194        | 71         | 25         | 261        | 76         | 48         | 79        |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 146       | 224        | 85         | 45         | 305        | 95         | 59         | 94        |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 157       | 224        | 89         | 45         | 305        | 95         | 59         | 95        |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 183       | 224        | 101        | 45         | 305        | 95         | 59         | 107       |  |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**Without manual override**  
**With fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

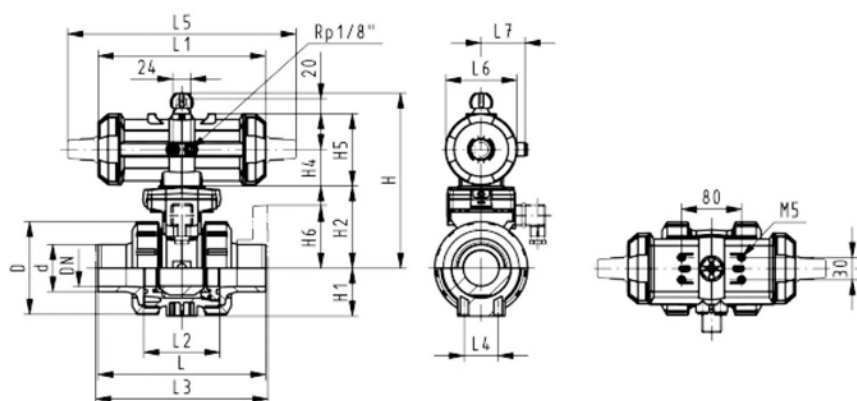
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 152</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 153</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 154</b> | 1.300 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 155</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 156</b> | 2.500 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 157</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 158</b> | 3.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 114       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 124       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 144       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 154       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 174       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 194       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 224       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |  |







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**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**Without manual override**  
**With fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

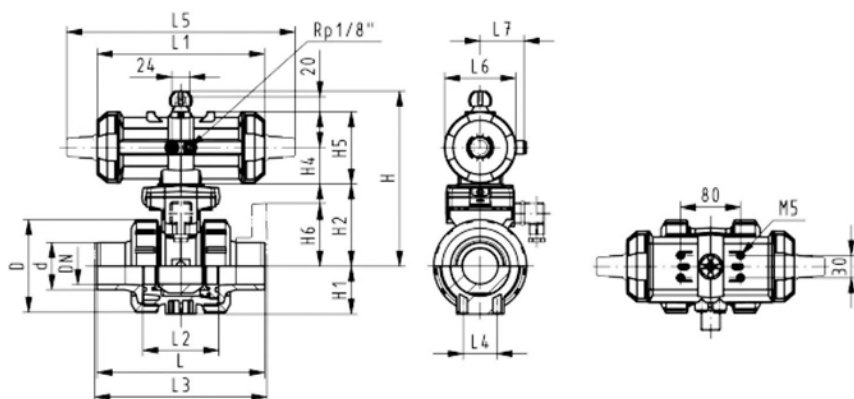
**Option:**

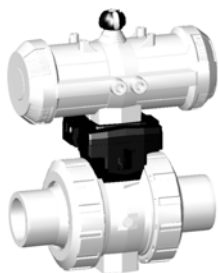
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 192</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 193</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 194</b> | 1.300 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 195</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 196</b> | 2.500 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 197</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 198</b> | 3.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 114       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 124       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 144       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 154       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 174       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 194       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 224       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |  |





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# SYGEF® standard Ball valve type 232 Function DA (Double acting) Without manual override With fusion spigots metric

## Model:

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

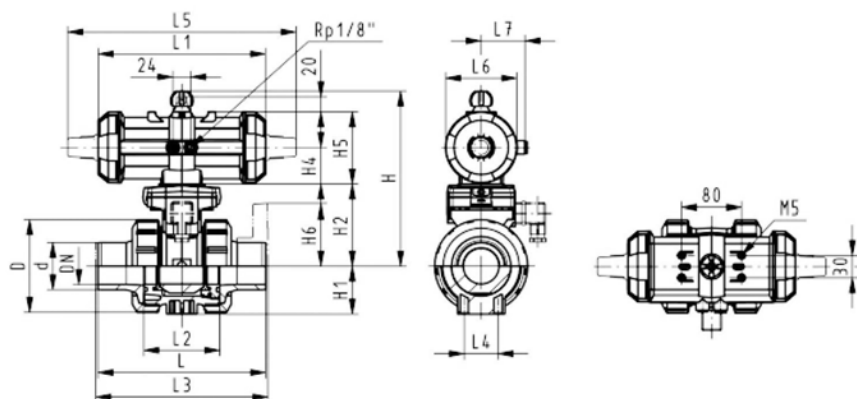
## Option:

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|----|--------------------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 16        | 10         | 10 | 70                                         | <b>199 232 232</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 20        | 15         | 10 | 185                                        | <b>199 232 233</b> | 1.200 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 234</b> | 1.300 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 235</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 236</b> | 2.500 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 237</b> | 2.800 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 238</b> | 3.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|--|
| 16        | 50        | 167       | 27         | 62         | 40         | 97         | 114       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 124       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 144       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 154       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 174       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 194       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 224       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |  |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**Without manual override**  
**With butt fusion spigots metric**

**Model:**

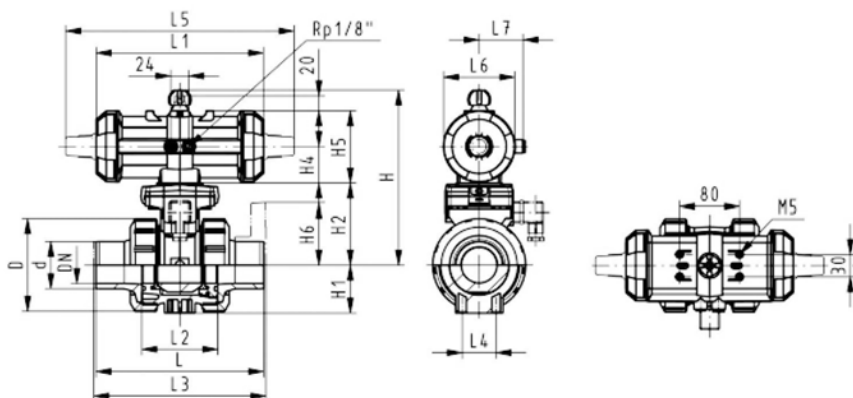
- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

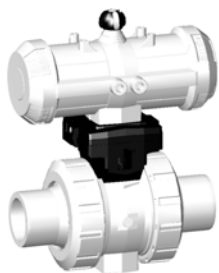
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 833</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 834</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 835</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 836</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 837</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 838</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**Without manual override**  
**With butt fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

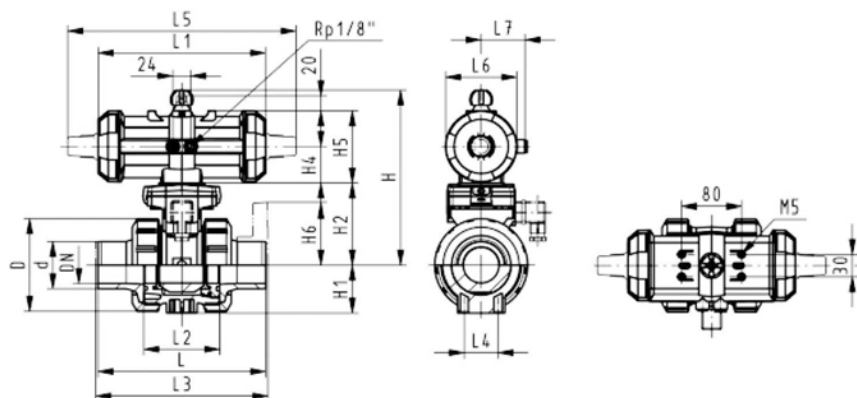
**Option:**

- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 873</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 874</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 875</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 876</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 877</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 878</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function DA (Double acting)**  
**Without manual override**  
**With butt fusion spigots metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

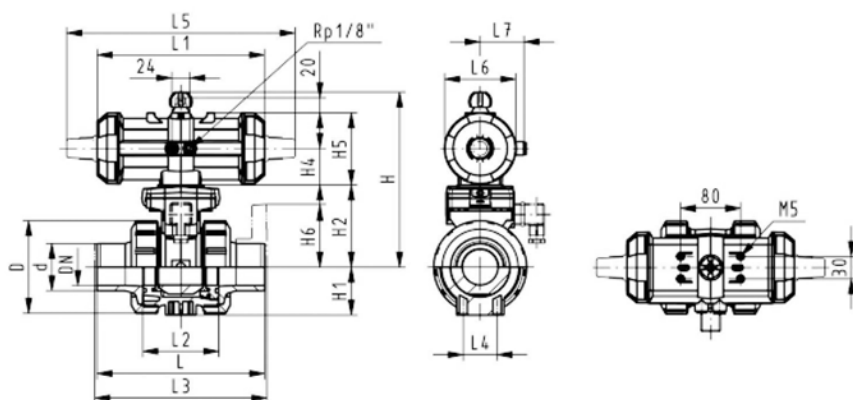
**Option:**

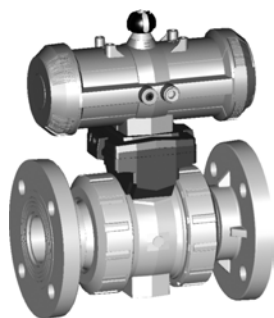
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | PN | kv-value<br>( $\Delta p=1$ bar)<br>[l/min] | FPM<br>Code        |  |
|-----------|------------|----|--------------------------------------------|--------------------|--|
| 20        | 15         | 10 | 185                                        | <b>199 232 913</b> |  |
| 25        | 20         | 10 | 350                                        | <b>199 232 914</b> |  |
| 32        | 25         | 10 | 700                                        | <b>199 232 915</b> |  |
| 40        | 32         | 10 | 1000                                       | <b>199 232 916</b> |  |
| 50        | 40         | 10 | 1600                                       | <b>199 232 917</b> |  |
| 63        | 50         | 10 | 3100                                       | <b>199 232 918</b> |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |  |
|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|--|
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 130       | 194        | 56         | 25         | 261        | 76         | 48         |  |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 130       | 194        | 65         | 25         | 261        | 76         | 48         |  |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 130       | 194        | 71         | 25         | 261        | 76         | 48         |  |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 130       | 224        | 85         | 45         | 305        | 95         | 59         |  |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 130       | 224        | 89         | 45         | 305        | 95         | 59         |  |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 130       | 224        | 101        | 45         | 305        | 95         | 59         |  |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FC (Fail safe to close)**  
**Without manual override**  
**With fixed flanges PVDF serrated metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

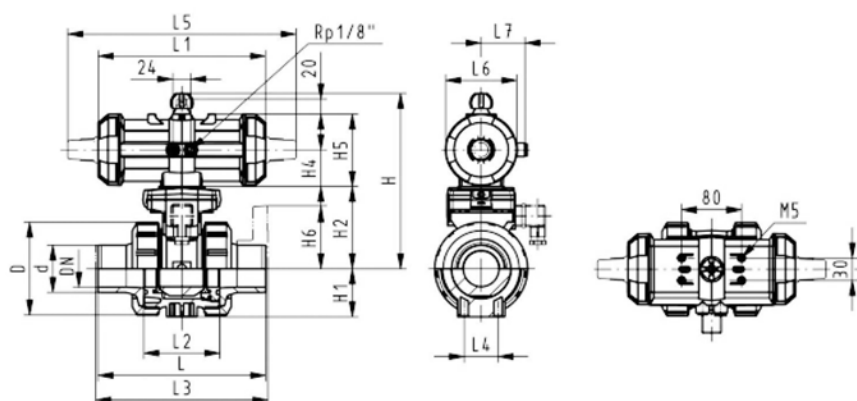
**Option:**

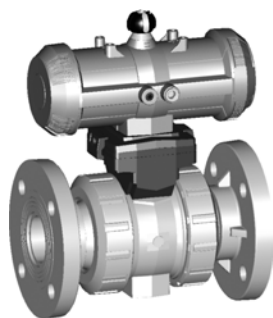
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 232 063</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 232 064</b> | 1.600 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 232 065</b> | 1.800 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 232 066</b> | 3.100 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 232 067</b> | 3.600 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 232 068</b> | 4.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 48         | 124       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 53         | 144       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 58         | 154       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 70         | 174       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 75         | 194       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 83         | 224       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |





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**SYGEF® standard**  
**Ball valve type 232**  
**Function FO (Fail safe to open)**  
**Without manual override**  
**With fixed flanges PVDF serrated metric**

**Model:**

- Built on with pneumatic actuator PA11/21
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558-1
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

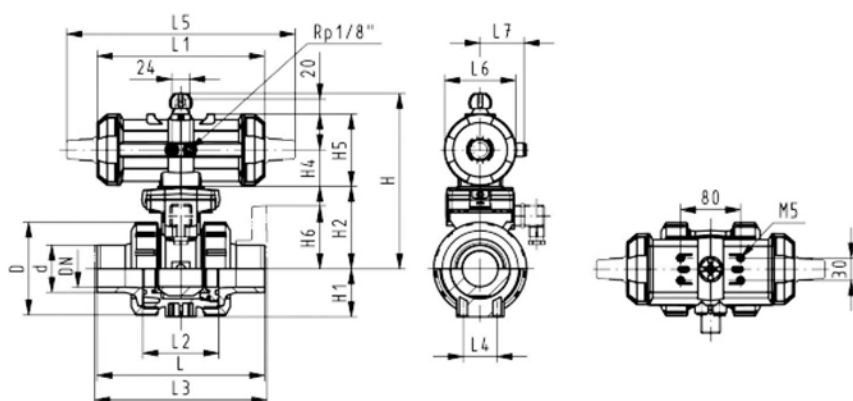
**Option:**

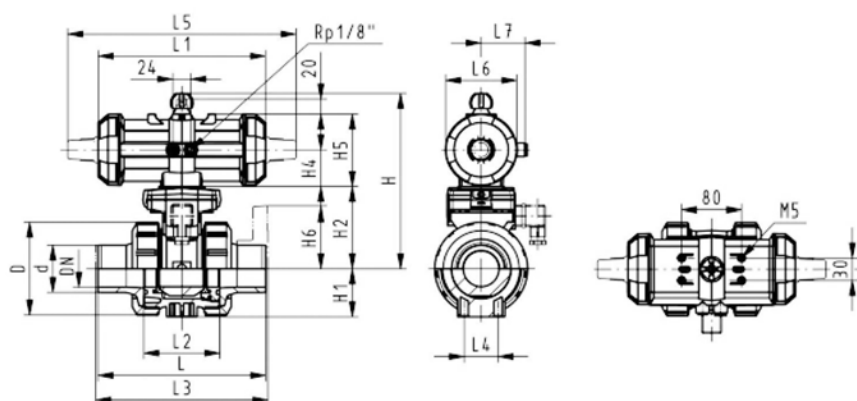
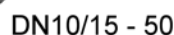
- Individual configuration of the valve (see form)

| d<br>[mm] | DN<br>[mm] | Inch | PN | kv-value<br>(Δp=1 bar)<br>[l/min] | FPM<br>Code        | kg    |  |  |  |  |  |  |  |  |  |  |
|-----------|------------|------|----|-----------------------------------|--------------------|-------|--|--|--|--|--|--|--|--|--|--|
| 20        | 15         | ½    | 10 | 185                               | <b>199 232 083</b> | 1.400 |  |  |  |  |  |  |  |  |  |  |
| 25        | 20         | ¾    | 10 | 350                               | <b>199 232 084</b> | 1.600 |  |  |  |  |  |  |  |  |  |  |
| 32        | 25         | 1    | 10 | 700                               | <b>199 232 085</b> | 1.800 |  |  |  |  |  |  |  |  |  |  |
| 40        | 32         | 1 ¼  | 10 | 1000                              | <b>199 232 086</b> | 3.100 |  |  |  |  |  |  |  |  |  |  |
| 50        | 40         | 1 ½  | 10 | 1600                              | <b>199 232 087</b> | 3.600 |  |  |  |  |  |  |  |  |  |  |
| 63        | 50         | 2    | 10 | 3100                              | <b>199 232 088</b> | 4.700 |  |  |  |  |  |  |  |  |  |  |

| d<br>[mm] | D<br>[mm] | H<br>[mm] | H1<br>[mm] | H2<br>[mm] | H4<br>[mm] | H5<br>[mm] | H6<br>[mm] | L<br>[mm] | L1<br>[mm] | L2<br>[mm] | L3<br>[mm] | L4<br>[mm] | L5<br>[mm] | L6<br>[mm] | L7<br>[mm] |
|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 20        | 50        | 167       | 27         | 62         | 40         | 97         | 48         | 124       | 194        | 56         | 130        | 25         | 261        | 76         | 48         |
| 25        | 58        | 176       | 30         | 71         | 40         | 97         | 53         | 144       | 194        | 65         | 150        | 25         | 261        | 76         | 48         |
| 32        | 68        | 176       | 36         | 71         | 40         | 97         | 58         | 154       | 194        | 71         | 160        | 25         | 261        | 76         | 48         |
| 40        | 84        | 210       | 44         | 84         | 51         | 115        | 70         | 174       | 224        | 85         | 180        | 45         | 305        | 95         | 59         |
| 50        | 97        | 210       | 51         | 84         | 51         | 115        | 75         | 194       | 224        | 89         | 200        | 45         | 305        | 95         | 59         |
| 63        | 124       | 232       | 64         | 106        | 51         | 115        | 83         | 224       | 224        | 101        | 230        | 45         | 305        | 95         | 59         |







# Copiable

## Configurator +GF+ Ball Valve Type 546 PVDF

### Ball valve

A01 Ball valve 546

### Material

B15 PVDF

### Dimension

C05 d 16 DN 10 3/8"  
C06 d 20 DN 15 1/2"  
C07 d 25 DN 20 3/4"  
C08 d 32 DN 25 1"  
C09 d 40 DN 32 1 1/4"  
C10 d 50 DN 40 1 1/2"  
C11 d 63 DN 50 2"

### Version

D01 standard, PTFE ball seal  
D02 oil-free, PTFE ball seal (only with specific connecting parts)  
D04 silicon-free, PVDF ball seal (only with specific connecting parts)

### Seals

E01 EPDM seals  
E02 FPM seals

### Threaded inserts

F01 without threaded inserts  
F02 with threaded inserts

### Connecting parts

G50 PVDF Fusion socket metric  
G51 PVDF Socket fusion spigot metric  
G52 PVDF Butt fusion spigot IR Plus® metric  
G53 PVDF Threaded socket NPT  
G64 Fixed flange PVDF serrated metric

### Multi-functional module

I01 No multi-functional module  
I02 Empty module  
I03 Module with 2 limit switches Ag, Ni  
I04 Module with 2 limit switches Au  
I05 Module with 2 inductive switches Namur  
I06 Module with 2 inductive switches PNP  
I07 Module with 2 inductive switches NPN

### Handle

K01 Standard handle red  
K02 Standard handle black  
K11 Multi-functional handle red

### Mounting plate

L01 without mounting plate  
L02 with mounting plate

You will find a large selection of different versions in our range of products. New system elements also provide you with new opportunities for use. In order for us to supply exactly the ball valve you need for your application, we put together a selection menu for you (the maximum working pressure of the whole valve is determined by the maximum permissible nominal pressure of the connecting part).

**We supply what you put together.**

|     |     |   |   |   |   |   |   |   |   |   |
|-----|-----|---|---|---|---|---|---|---|---|---|
| A01 | B15 | C | D | E | F | G | G | I | K | L |
|-----|-----|---|---|---|---|---|---|---|---|---|

left

right

# Copiable

## GF ball valve type 546 with pneumatic actuator

**It's so easy to configure the type 546:**  
 With the configurator, you have a choice of new pneumatic actuators PA11 and PA21 in 2 optimized sizes including a large range of accessories.

**We supply what you put together.**



|                                      |                              |   |  |
|--------------------------------------|------------------------------|---|--|
| <b>Pneumatic actuators PA11/PA21</b> |                              |   |  |
| P01                                  | Fail safe to close PA11/PA21 |   |  |
| P02                                  | Fail safe to open PA11/21    |   |  |
| P03                                  | Double acting PA11/21        |   |  |
| P30                                  | Fail safe to close PA30/90   |   |  |
| P31                                  | Fail safe to open PA30/90    |   |  |
| P32                                  | Double acting PA30/90        |   |  |
| <b>Manual override</b>               |                              |   |  |
| Q01                                  | without manual override      |   |  |
| Q02                                  | with manual override         |   |  |
| <b>Stroke limiter</b>                |                              |   |  |
| R01                                  | without stroke limiter       |   |  |
| R02                                  | with stroke limiter          |   |  |
| P                                    | Q                            | R |  |