



- Piston rod secured against rotation by means of guide rods and yoke plate
- Profile slots for proximity sensors
- Extensive range of accessories

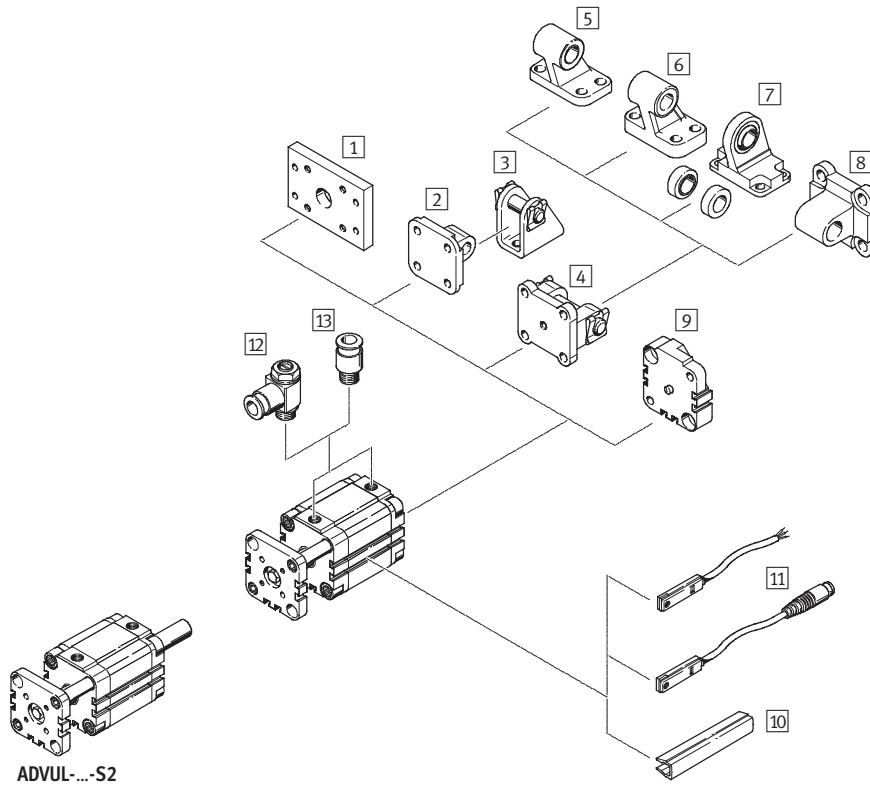
Specified types in accordance with ATEX directive for potentially explosive atmospheres

➔ [www.festo.com/en/ex](http://www.festo.com/en/ex)

# Compact cylinders ADVUL

Peripherals overview

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| Mounting attachments and accessories |                                    |                                                                                               |    |                 |
|--------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------|----|-----------------|
|                                      | Brief description                  | ADVUL                                                                                         |    | → Page/Internet |
|                                      |                                    |                                                                                               | S2 |                 |
| 1                                    | Flange mounting FUA                | For end caps                                                                                  | ■  | 11              |
| 2                                    | Swivel flange SUA for Ø 12 ... 25  | For end caps                                                                                  | ■  | 12              |
| 3                                    | Clevis foot LBN                    | –                                                                                             | ■  | 14              |
| 4                                    | Swivel flange SUA for Ø 32 ... 100 | For end caps                                                                                  | ■  | 12              |
| 5                                    | Clevis foot LN                     | –                                                                                             | ■  | 14              |
| 6                                    | Clevis foot LNG                    | –                                                                                             | ■  | 14              |
| 7                                    | Clevis foot LSN                    | With spherical bearing                                                                        | ■  | 14              |
| 8                                    | Swivel flange SNCL                 | –                                                                                             | ■  | 14              |
| 9                                    | Adapter kit DPVU                   | For connecting two cylinders with identical piston diameter to form a multi-position cylinder | ■  | 13              |
| 10                                   | Slot cover ABP-5-S                 | To protect the sensor cable and keep dirt out of the sensor slots                             | ■  | 15              |
| 11                                   | Proximity sensor SME/SMT-8         | Can be integrated in the cylinder profile barrel                                              | ■  | 15              |
| 12                                   | One-way flow control valve GRLA    | To regulate speed                                                                             | ■  | 14              |
| 13                                   | Push-in fitting QS                 | For connecting compressed air tubing with standard external diameters                         | ■  | quick star      |

# Compact cylinders ADVUL

Type codes

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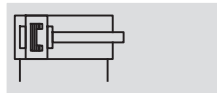
|                         |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
|-------------------------|----------------------------------------------------------------------------------|-------|---|----|---|----|---|---|---|---|---|----|
|                         |                                                                                  | ADVUL | – | 50 | – | 80 | – | P | – | A | – | S2 |
| <b>Type</b>             |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| Double-acting           |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| ADVUL                   | Compact cylinder, secured against rotation by means of guide rods and yoke plate |       |   |    |   |    |   |   |   |   |   |    |
| <b>Piston Ø [mm]</b>    |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| <b>Stroke [mm]</b>      |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| <b>Cushioning</b>       |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| P                       | Flexible cushioning rings/plates at both ends                                    |       |   |    |   |    |   |   |   |   |   |    |
| <b>Position sensing</b> |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| A                       | For proximity sensing                                                            |       |   |    |   |    |   |   |   |   |   |    |
| <b>Variant</b>          |                                                                                  |       |   |    |   |    |   |   |   |   |   |    |
| S2                      | Through piston rod                                                               |       |   |    |   |    |   |   |   |   |   |    |
| S6                      | Heat-resistant seals up to 120 °C                                                |       |   |    |   |    |   |   |   |   |   |    |

# Compact cylinders ADVUL

Technical data

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## Function



- N- Diameter  
12 ... 100 mm
- T- Stroke length  
1 ... 400 mm

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Spare\\_parts\\_service](http://www.festo.com/en/Spare_parts_service)

Wearing parts kits, see  
→ 10

## Variants



S2



S6



ADVUL-...-P-A



ADVUL-...-P-A-S2

| General technical data |                                                     |    |    |    |      |      |      |      |      |      |
|------------------------|-----------------------------------------------------|----|----|----|------|------|------|------|------|------|
| Piston Ø               | 12                                                  | 16 | 20 | 25 | 32   | 40   | 50   | 63   | 80   | 100  |
| Pneumatic connection   | M5                                                  | M5 | M5 | M5 | G1/8 | G1/8 | G1/8 | G1/8 | G1/8 | G1/4 |
| Operating medium       | Filtered compressed air, lubricated or unlubricated |    |    |    |      |      |      |      |      |      |
| Constructional design  | Piston                                              |    |    |    |      |      |      |      |      |      |
|                        | Piston rod                                          |    |    |    |      |      |      |      |      |      |
|                        | Cylinder barrel                                     |    |    |    |      |      |      |      |      |      |
| Cushioning             | Flexible cushioning rings/plates at both ends       |    |    |    |      |      |      |      |      |      |
| Position sensing       | For proximity sensing                               |    |    |    |      |      |      |      |      |      |
| Type of mounting       | Via through-holes                                   |    |    |    |      |      |      |      |      |      |
|                        | With female thread                                  |    |    |    |      |      |      |      |      |      |
|                        | Via accessories                                     |    |    |    |      |      |      |      |      |      |
| Mounting position      | Any                                                 |    |    |    |      |      |      |      |      |      |

| Operating pressure [bar] |            |    |    |            |            |    |    |    |    |     |
|--------------------------|------------|----|----|------------|------------|----|----|----|----|-----|
| Piston Ø                 | 12         | 16 | 20 | 25         | 32         | 40 | 50 | 63 | 80 | 100 |
| Piston rod at one end    | 1.5 ... 10 |    |    | 1.0 ... 10 |            |    |    |    |    |     |
| Through piston rod S2    | 1.5 ... 10 |    |    |            | 1.0 ... 10 |    |    |    |    |     |

| Ambient conditions                           |               |            |
|----------------------------------------------|---------------|------------|
| Compact cylinder                             | Basic version | S6         |
| Ambient temperature <sup>1)</sup> [°C]       | -20 ... +80   | 0 ... +120 |
| Corrosion resistance class CRC <sup>2)</sup> | 2             | 2          |

1) Note operating range of proximity sensors

2) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents

# Compact cylinders ADVUL

Technical data

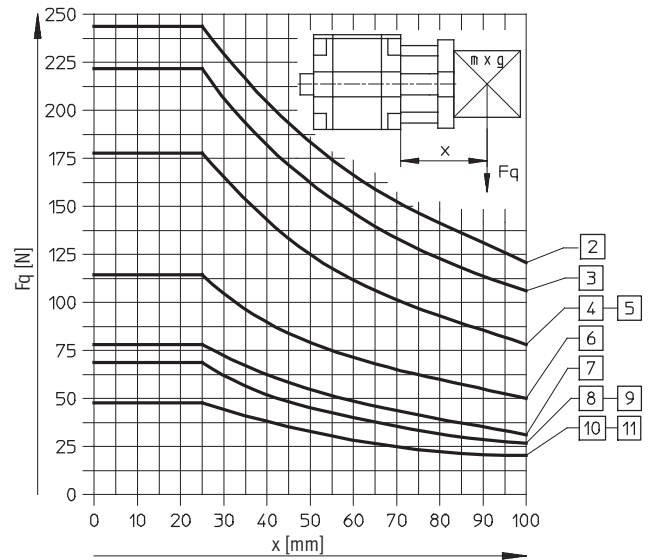
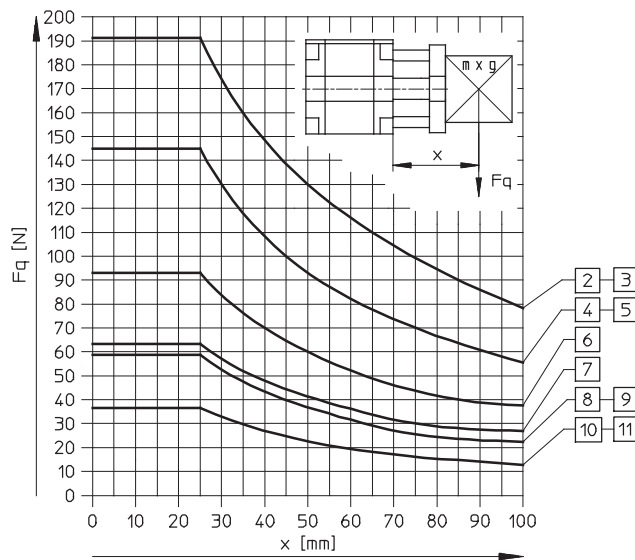
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| Forces [N] and impact energy [J]       |      |      |      |      |      |      |       |       |       |       |
|----------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|
| Piston Ø                               | 12   | 16   | 20   | 25   | 32   | 40   | 50    | 63    | 80    | 100   |
| Theoretical force at 6 bar, advancing  | 68   | 121  | 188  | 295  | 483  | 754  | 1 178 | 1 870 | 3 016 | 4 712 |
| S2                                     | 51   | 90   | 141  | 247  | 415  | 686  | 1 057 | 1 750 | 2 827 | 4 418 |
| Theoretical force at 6 bar, retracting | 51   | 90   | 141  | 247  | 415  | 686  | 1 057 | 1 750 | 2 827 | 4 418 |
| S2                                     | 51   | 90   | 141  | 247  | 415  | 686  | 1 057 | 1 750 | 2 827 | 4 418 |
| Max. impact energy at end positions    | 0.09 | 0.10 | 0.14 | 0.10 | 0.40 | 0.52 | 0.64  | 0.70  | 0.75  | 1.00  |

## Max. lateral force $F_q$ as a function of projection $x$

Piston rod at one end

Through piston rod



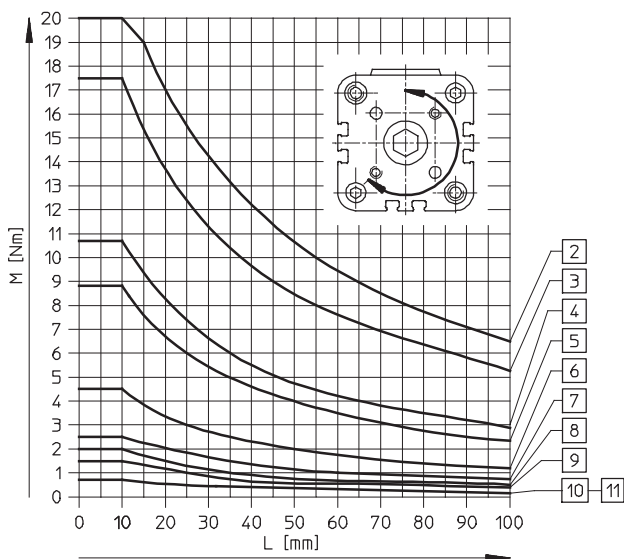
- 2 Ø 100 mm
- 3 Ø 80 mm
- 4 Ø 63 mm

- 5 Ø 50 mm
- 6 Ø 40 mm
- 7 Ø 32 mm

- 8 Ø 25 mm
- 9 Ø 20 mm
- 10 Ø 16 mm

- 11 Ø 12 mm

## Torque $M$ in relation to stroke length $L$



- 2 Ø 100 mm
- 3 Ø 80 mm
- 4 Ø 63 mm
- 5 Ø 50 mm
- 6 Ø 40 mm

- 7 Ø 32 mm
- 8 Ø 25 mm
- 9 Ø 20 mm
- 10 Ø 16 mm
- 11 Ø 12 mm

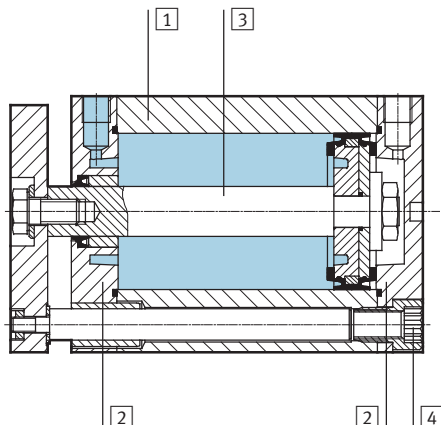
# Compact cylinders ADVUL

Technical data

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## Materials

Sectional view



| Compact cylinder |                     | Basic version                | S6                         |
|------------------|---------------------|------------------------------|----------------------------|
| 1                | Cylinder barrel     | Wrought aluminium alloy      | Wrought aluminium alloy    |
| 2                | Bearing and end cap | Wrought aluminium alloy      | Wrought aluminium alloy    |
| 3                | Piston rod          | Ø 12 ... 32                  | High-alloy stainless steel |
|                  |                     | Ø 40 ... 100                 | High-alloy steel           |
| 4                | Flange screws       | Ø 12 ... 16                  | High-alloy stainless steel |
|                  |                     | Ø 20 ... 100                 | Tempered steel             |
| –                | Seals               | Polyurethane, nitrile rubber | Fluorocautchouc            |

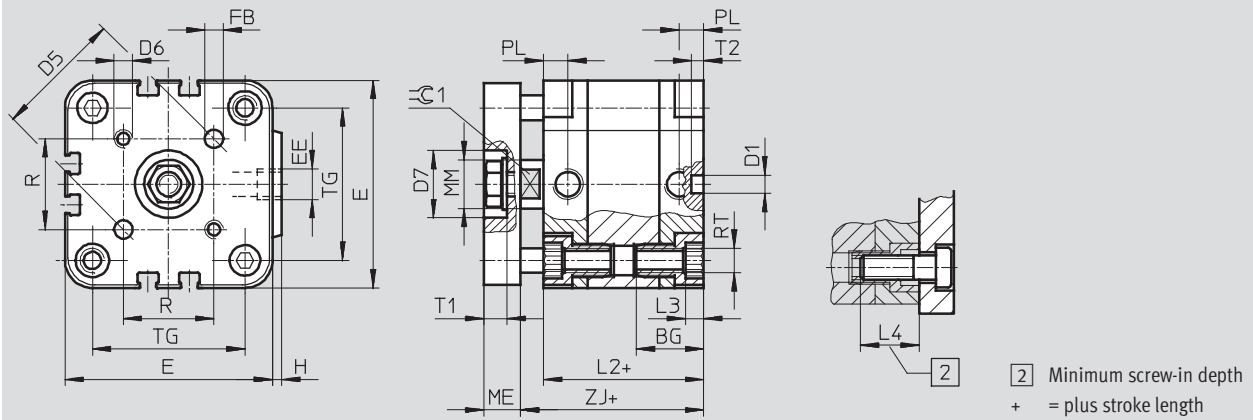
# Compact cylinders ADVUL

Technical data

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## Dimensions – Basic cylinders

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



| Ø<br>[mm] | BG <sup>1)</sup> | D1<br>Ø<br>H9 | D5 | D6  | D7<br>Ø<br>H9 | E   | EE              | FB<br>Ø<br>H8 | H   | L2   | L3 |
|-----------|------------------|---------------|----|-----|---------------|-----|-----------------|---------------|-----|------|----|
| 12        | 18.5             | 6             | 14 | M3  | –             | 29  | M5              | 3             | 1   | 38   | 3  |
| 16        | 18.5             | 6             | 14 | M3  | –             | 29  | M5              | 3             | 1   | 38   | 3  |
| 20        | 18.5             | 6             | 17 | M4  | –             | 36  | M5              | 4             | 1.5 | 38   | 4  |
| 25        | 18.5             | 6             | 22 | M5  | 14            | 40  | M5              | 5             | 1.5 | 39.5 | 4  |
| 32        | 21.5             | 6             | 28 | M5  | 17            | 50  | G $\frac{1}{8}$ | 5             | 2   | 44.5 | 5  |
| 40        | 21.5             | 6             | 33 | M5  | 17            | 60  | G $\frac{1}{8}$ | 5             | 2.5 | 45.5 | 5  |
| 50        | 22               | 6             | 42 | M6  | 22            | 68  | G $\frac{1}{8}$ | 6             | 3   | 45.5 | 6  |
| 63        | 24.5             | 8             | 50 | M6  | 22            | 87  | G $\frac{1}{8}$ | 6             | 4   | 50   | 8  |
| 80        | 27.5             | 8             | 65 | M8  | 28            | 107 | G $\frac{1}{8}$ | 8             | 4   | 56   | 8  |
| 100       | 32.5             | 8             | 80 | M10 | 30            | 128 | G $\frac{1}{4}$ | 10            | 5   | 66.5 | 8  |

| Ø<br>[mm] | L4 | ME | MM<br>Ø | PL   | R    | RT  | T1<br>+0.2 | T2<br>–0.2 | TG  | ⌀1<br>h13 |
|-----------|----|----|---------|------|------|-----|------------|------------|-----|-----------|
| 12        | 16 | 6  | 6       | 8    | 9.9  | M4  | –          | 4          | 18  | 5         |
| 16        | 16 | 6  | 8       | 8    | 9.9  | M4  | –          | 4          | 18  | 7         |
| 20        | 18 | 8  | 10      | 8    | 12   | M5  | –          | 4          | 22  | 9         |
| 25        | 18 | 8  | 10      | 8    | 15.6 | M5  | 4.8        | 4          | 26  | 9         |
| 32        | 20 | 10 | 12      | 8    | 19.8 | M6  | 6.1        | 4          | 32  | 10        |
| 40        | 20 | 10 | 12      | 8    | 23.3 | M6  | 6.1        | 4          | 42  | 10        |
| 50        | 20 | 12 | 16      | 8    | 29.7 | M8  | 7.6        | 4          | 50  | 13        |
| 63        | 25 | 12 | 16      | 8    | 35.4 | M10 | 7.6        | 4          | 62  | 13        |
| 80        | 25 | 14 | 20      | 8.5  | 46   | M10 | 8.7        | 4          | 82  | 17        |
| 100       | 25 | 14 | 25      | 10.5 | 56.6 | M10 | 10.3       | 4          | 103 | 22        |

1) Do not exceed screw-in depth

# Compact cylinders ADVUL

Technical data

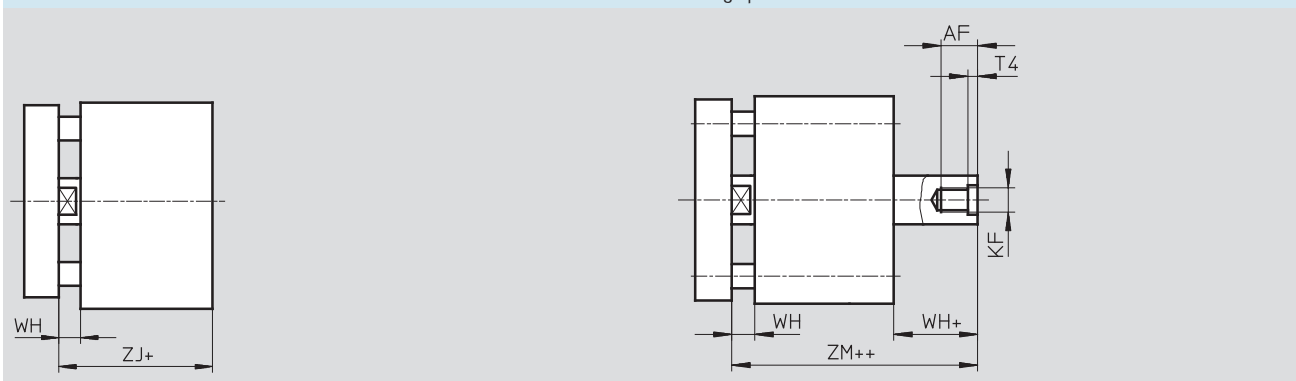
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## Dimensions – Variants

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Piston rod at one end

Through piston rod



| Ø    | AF               | KF  | T4  | WH  | ZJ   | ZM   |
|------|------------------|-----|-----|-----|------|------|
| [mm] |                  |     |     |     |      |      |
| 12   | 8                | M3  | 1.5 | 4.5 | 42.5 | 47   |
| 16   | 10               | M4  | 1.5 | 4.5 | 42.5 | 47   |
| 20   | 12               | M5  | 2   | 4.5 | 42.5 | 47   |
| 25   | 12               | M5  | 2   | 5.5 | 45   | 50.5 |
| 32   | 14               | M6  | 2.6 | 6   | 50.5 | 56.5 |
| 40   | 14               | M6  | 2.6 | 6.5 | 52   | 58.5 |
| 50   | 16               | M8  | 3.3 | 7.5 | 53   | 60.5 |
| 63   | 16               | M8  | 3.3 | 7.5 | 57.5 | 65   |
| 80   | 20 <sup>1)</sup> | M10 | 4.7 | 8   | 64   | 72   |
| 100  | 24 <sup>1)</sup> | M12 | 6.1 | 10  | 76.5 | 86.5 |

1) With a stroke < 5 mm, the maximum screw-in depth is reduced by 5 mm



# Compact cylinders ADVUL

Technical data

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| Ordering data – Basic version                                                     |                |          |                 |                 |          |                  |
|-----------------------------------------------------------------------------------|----------------|----------|-----------------|-----------------|----------|------------------|
| Type                                                                              | Stroke<br>[mm] | Part No. | Type            | Stroke<br>[mm]  | Part No. | Type             |
|  | Piston Ø 12 mm |          |                 | Piston Ø 16 mm  |          |                  |
|                                                                                   | 5              | 156 844  | ADVUL-12-5-P-A  | 5               | 156 851  | ADVUL-16-5-P-A   |
|                                                                                   | 10             | 156 845  | ADVUL-12-10-P-A | 10              | 156 852  | ADVUL-16-10-P-A  |
|                                                                                   | 15             | 156 846  | ADVUL-12-15-P-A | 15              | 156 853  | ADVUL-16-15-P-A  |
|                                                                                   | 20             | 156 847  | ADVUL-12-20-P-A | 20              | 156 854  | ADVUL-16-20-P-A  |
|                                                                                   | 25             | 156 848  | ADVUL-12-25-P-A | 25              | 156 855  | ADVUL-16-25-P-A  |
|                                                                                   | 30             | 156 849  | ADVUL-12-30-P-A | 30              | 156 856  | ADVUL-16-30-P-A  |
|                                                                                   | 40             | 156 850  | ADVUL-12-40-P-A | 40              | 156 857  | ADVUL-16-40-P-A  |
|                                                                                   | Piston Ø 20 mm |          |                 | Piston Ø 25 mm  |          |                  |
|                                                                                   | 5              | 156 858  | ADVUL-20-5-P-A  | 5               | 156 866  | ADVUL-25-5-P-A   |
|                                                                                   | 10             | 156 859  | ADVUL-20-10-P-A | 10              | 156 867  | ADVUL-25-10-P-A  |
|                                                                                   | 15             | 156 860  | ADVUL-20-15-P-A | 15              | 156 868  | ADVUL-25-15-P-A  |
|                                                                                   | 20             | 156 861  | ADVUL-20-20-P-A | 20              | 156 869  | ADVUL-25-20-P-A  |
|                                                                                   | 25             | 156 862  | ADVUL-20-25-P-A | 25              | 156 870  | ADVUL-25-25-P-A  |
|                                                                                   | 30             | 156 863  | ADVUL-20-30-P-A | 30              | 156 871  | ADVUL-25-30-P-A  |
|                                                                                   | 40             | 156 864  | ADVUL-20-40-P-A | 40              | 156 872  | ADVUL-25-40-P-A  |
|                                                                                   | 50             | 156 865  | ADVUL-20-50-P-A | 50              | 156 873  | ADVUL-25-50-P-A  |
|                                                                                   | Piston Ø 32 mm |          |                 | Piston Ø 40 mm  |          |                  |
|                                                                                   | 5              | 156 874  | ADVUL-32-5-P-A  | 5               | 156 884  | ADVUL-40-5-P-A   |
|                                                                                   | 10             | 156 875  | ADVUL-32-10-P-A | 10              | 156 885  | ADVUL-40-10-P-A  |
|                                                                                   | 15             | 156 876  | ADVUL-32-15-P-A | 15              | 156 886  | ADVUL-40-15-P-A  |
|                                                                                   | 20             | 156 877  | ADVUL-32-20-P-A | 20              | 156 887  | ADVUL-40-20-P-A  |
|                                                                                   | 25             | 156 878  | ADVUL-32-25-P-A | 25              | 156 888  | ADVUL-40-25-P-A  |
|                                                                                   | 30             | 156 879  | ADVUL-32-30-P-A | 30              | 156 889  | ADVUL-40-30-P-A  |
|                                                                                   | 40             | 156 880  | ADVUL-32-40-P-A | 40              | 156 890  | ADVUL-40-40-P-A  |
|                                                                                   | 50             | 156 881  | ADVUL-32-50-P-A | 50              | 156 891  | ADVUL-40-50-P-A  |
|                                                                                   | 60             | 156 882  | ADVUL-32-60-P-A | 60              | 156 892  | ADVUL-40-60-P-A  |
|                                                                                   | 80             | 156 883  | ADVUL-32-80-P-A | 80              | 156 893  | ADVUL-40-80-P-A  |
|                                                                                   | Piston Ø 50 mm |          |                 | Piston Ø 63 mm  |          |                  |
|                                                                                   | 10             | 156 894  | ADVUL-50-10-P-A | 10              | 156 903  | ADVUL-63-10-P-A  |
|                                                                                   | 15             | 156 895  | ADVUL-50-15-P-A | 15              | 156 904  | ADVUL-63-15-P-A  |
|                                                                                   | 20             | 156 896  | ADVUL-50-20-P-A | 20              | 156 905  | ADVUL-63-20-P-A  |
|                                                                                   | 25             | 156 897  | ADVUL-50-25-P-A | 25              | 156 906  | ADVUL-63-25-P-A  |
|                                                                                   | 30             | 156 898  | ADVUL-50-30-P-A | 30              | 156 907  | ADVUL-63-30-P-A  |
|                                                                                   | 40             | 156 899  | ADVUL-50-40-P-A | 40              | 156 908  | ADVUL-63-40-P-A  |
|                                                                                   | 50             | 156 900  | ADVUL-50-50-P-A | 50              | 156 909  | ADVUL-63-50-P-A  |
|                                                                                   | 60             | 156 901  | ADVUL-50-60-P-A | 60              | 156 910  | ADVUL-63-60-P-A  |
|                                                                                   | 80             | 156 902  | ADVUL-50-80-P-A | 80              | 156 911  | ADVUL-63-80-P-A  |
|                                                                                   | Piston Ø 80 mm |          |                 | Piston Ø 100 mm |          |                  |
|                                                                                   | 10             | 156 912  | ADVUL-80-10-P-A | 10              | 156 921  | ADVUL-100-10-P-A |
|                                                                                   | 15             | 156 913  | ADVUL-80-15-P-A | 15              | 156 922  | ADVUL-100-15-P-A |
|                                                                                   | 20             | 156 914  | ADVUL-80-20-P-A | 20              | 156 923  | ADVUL-100-20-P-A |
|                                                                                   | 25             | 156 915  | ADVUL-80-25-P-A | 25              | 156 924  | ADVUL-100-25-P-A |
|                                                                                   | 30             | 156 916  | ADVUL-80-30-P-A | 30              | 156 925  | ADVUL-100-30-P-A |
|                                                                                   | 40             | 156 917  | ADVUL-80-40-P-A | 40              | 156 926  | ADVUL-100-40-P-A |
|                                                                                   | 50             | 156 918  | ADVUL-80-50-P-A | 50              | 156 927  | ADVUL-100-50-P-A |
|                                                                                   | 60             | 156 919  | ADVUL-80-60-P-A | 60              | 156 928  | ADVUL-100-60-P-A |
|                                                                                   | 80             | 156 920  | ADVUL-80-80-P-A | 80              | 156 929  | ADVUL-100-80-P-A |

# Compact cylinders ADVUL

Technical data

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| Ordering data – Variants                                                          |                  |                |          |                      |
|-----------------------------------------------------------------------------------|------------------|----------------|----------|----------------------|
| Type                                                                              | Piston Ø<br>[mm] | Stroke<br>[mm] | Part No. | Type                 |
| Variable stroke                                                                   |                  |                |          |                      |
|  | 12               | 1 ... 200      | 156 200  | ADVUL-12-...-P-A     |
|                                                                                   | 16               | 1 ... 200      | 156 201  | ADVUL-16-...-P-A     |
|                                                                                   | 20               | 1 ... 200      | 156 202  | ADVUL-20-...-P-A     |
|                                                                                   | 25               | 1 ... 200      | 156 203  | ADVUL-25-...-P-A     |
|                                                                                   | 32               | 1 ... 300      | 156 204  | ADVUL-32-...-P-A     |
|                                                                                   | 40               | 1 ... 300      | 156 205  | ADVUL-40-...-P-A     |
|                                                                                   | 50               | 1 ... 300      | 156 206  | ADVUL-50-...-P-A     |
|                                                                                   | 63               | 1 ... 300      | 156 207  | ADVUL-63-...-P-A     |
|                                                                                   | 80               | 1 ... 400      | 156 208  | ADVUL-80-...-P-A     |
|                                                                                   | 100              | 1 ... 400      | 156 209  | ADVUL-100-...-P-A    |
| S2 – Through piston rod, variable stroke                                          |                  |                |          |                      |
|  | 12               | 1 ... 200      | 165 089  | ADVUL-12-...-P-A-S2  |
|                                                                                   | 16               | 1 ... 200      | 165 090  | ADVUL-16-...-P-A-S2  |
|                                                                                   | 20               | 1 ... 200      | 165 091  | ADVUL-20-...-P-A-S2  |
|                                                                                   | 25               | 1 ... 200      | 165 092  | ADVUL-25-...-P-A-S2  |
|                                                                                   | 32               | 1 ... 300      | 165 093  | ADVUL-32-...-P-A-S2  |
|                                                                                   | 40               | 1 ... 300      | 165 094  | ADVUL-40-...-P-A-S2  |
|                                                                                   | 50               | 1 ... 300      | 165 095  | ADVUL-50-...-P-A-S2  |
|                                                                                   | 63               | 1 ... 300      | 165 096  | ADVUL-63-...-P-A-S2  |
|                                                                                   | 80               | 1 ... 400      | 165 097  | ADVUL-80-...-P-A-S2  |
|                                                                                   | 100              | 1 ... 400      | 165 098  | ADVUL-100-...-P-A-S2 |

| Ordering data – Variants                                                            |                  |                |          |                      |
|-------------------------------------------------------------------------------------|------------------|----------------|----------|----------------------|
| Type                                                                                | Piston Ø<br>[mm] | Stroke<br>[mm] | Part No. | Type                 |
| S6 – Heat-resistant up to 120 °C, variable stroke                                   |                  |                |          |                      |
|  | 12               | 1 ... 200      | 156 210  | ADVUL-12-...-P-A-S6  |
|                                                                                     | 16               | 1 ... 200      | 156 211  | ADVUL-16-...-P-A-S6  |
|                                                                                     | 20               | 1 ... 200      | 156 212  | ADVUL-20-...-P-A-S6  |
|                                                                                     | 25               | 1 ... 200      | 156 213  | ADVUL-25-...-P-A-S6  |
|                                                                                     | 32               | 1 ... 300      | 156 214  | ADVUL-32-...-P-A-S6  |
|                                                                                     | 40               | 1 ... 300      | 156 215  | ADVUL-40-...-P-A-S6  |
|                                                                                     | 50               | 1 ... 300      | 156 216  | ADVUL-50-...-P-A-S6  |
|                                                                                     | 63               | 1 ... 300      | 156 217  | ADVUL-63-...-P-A-S6  |
|                                                                                     | 80               | 1 ... 400      | 156 218  | ADVUL-80-...-P-A-S6  |
|                                                                                     | 100              | 1 ... 400      | 156 219  | ADVUL-100-...-P-A-S6 |

| Ordering data – Wearing parts kits |               |                                 |                                  |                                    |
|------------------------------------|---------------|---------------------------------|----------------------------------|------------------------------------|
|                                    | Part No.      | Type                            | Part No.                         | Type                               |
| Piston Ø                           | Basic version |                                 | S6 – Heat-resistant up to 120 °C |                                    |
| 12                                 | 121 115       | ADVUL-12-...-P-A <sup>1)</sup>  | 383 559                          | ADVUL-12-...-P-A-S6 <sup>2)</sup>  |
| 16                                 | 121 116       | ADVUL-16-...-P-A <sup>1)</sup>  | 383 560                          | ADVUL-16-...-P-A-S6 <sup>2)</sup>  |
| 20                                 | 121 117       | ADVUL-20-...-P-A <sup>1)</sup>  | 383 561                          | ADVUL-20-...-P-A-S6 <sup>2)</sup>  |
| 25                                 | 121 118       | ADVUL-25-...-P-A <sup>1)</sup>  | 383 562                          | ADVUL-25-...-P-A-S6 <sup>2)</sup>  |
| 32                                 | 121 119       | ADVUL-32-...-P-A <sup>1)</sup>  | 383 563                          | ADVUL-32-...-P-A-S6 <sup>1)</sup>  |
| 40                                 | 121 120       | ADVUL-40-...-P-A <sup>1)</sup>  | 383 564                          | ADVUL-40-...-P-A-S6 <sup>1)</sup>  |
| 50                                 | 121 121       | ADVUL-50-...-P-A <sup>1)</sup>  | 383 565                          | ADVUL-50-...-P-A-S6 <sup>1)</sup>  |
| 63                                 | 121 122       | ADVUL-63-...-P-A <sup>1)</sup>  | 383 566                          | ADVUL-63-...-P-A-S6 <sup>1)</sup>  |
| 80                                 | 121 123       | ADVUL-80-...-P-A <sup>1)</sup>  | 383 567                          | ADVUL-80-...-P-A-S6 <sup>1)</sup>  |
| 100                                | 121 124       | ADVUL-100-...-P-A <sup>1)</sup> | 383 568                          | ADVUL-100-...-P-A-S6 <sup>1)</sup> |

1) Assembly grease included in scope of delivery

2) Assembly grease not included in scope of delivery. If required, please order separately under part no. 329 555 (20 ml)

# Compact cylinders ADVUL

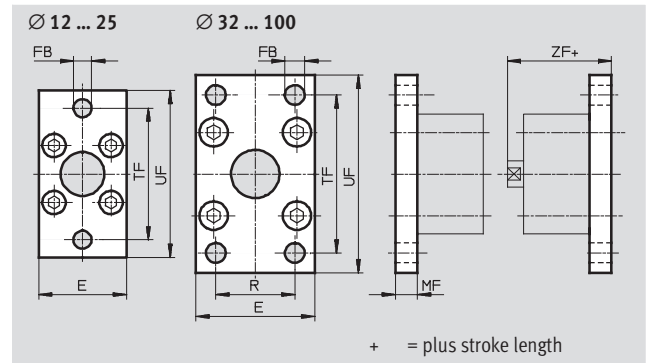
Accessories

FESTO

## Flange mounting FUA

Material:

Clear anodised aluminium



| Dimensions and ordering data |     |         |    |    |     |     |      |                   |               |                |                  |
|------------------------------|-----|---------|----|----|-----|-----|------|-------------------|---------------|----------------|------------------|
| For Ø                        | E   | FB<br>Ø | MF | R  | TF  | UF  | ZF   | CRC <sup>1)</sup> | Weight<br>[g] | Part No.       | Type             |
| [mm]                         |     |         |    |    |     |     |      |                   |               |                |                  |
| 12/16                        | 29  | 5.5     | 10 | –  | 43  | 55  | 52.5 | 2                 | 48            | <b>157 299</b> | <b>FUA-12/16</b> |
| 20                           | 36  | 6.6     | 10 | –  | 55  | 70  | 52.5 | 2                 | 77            | <b>157 300</b> | <b>FUA-20</b>    |
| 25                           | 40  | 6.6     | 10 | –  | 60  | 76  | 55   | 2                 | 91            | <b>157 301</b> | <b>FUA-25</b>    |
| 32                           | 50  | 7       | 10 | 32 | 65  | 80  | 60.5 | 2                 | 290           | <b>157 302</b> | <b>FUA-32</b>    |
| 40                           | 60  | 9       | 10 | 36 | 82  | 102 | 62   | 2                 | 449           | <b>157 303</b> | <b>FUA-40</b>    |
| 50                           | 68  | 9       | 12 | 45 | 90  | 110 | 65   | 2                 | 658           | <b>157 304</b> | <b>FUA-50</b>    |
| 63                           | 87  | 9       | 15 | 50 | 110 | 130 | 72.5 | 2                 | 1,277         | <b>157 305</b> | <b>FUA-63</b>    |
| 80                           | 107 | 12      | 15 | 63 | 135 | 160 | 76   | 2                 | 1,910         | <b>157 306</b> | <b>FUA-80</b>    |
| 100                          | 128 | 14      | 15 | 75 | 163 | 190 | 91.5 | 2                 | 2,716         | <b>157 307</b> | <b>FUA-100</b>   |

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents

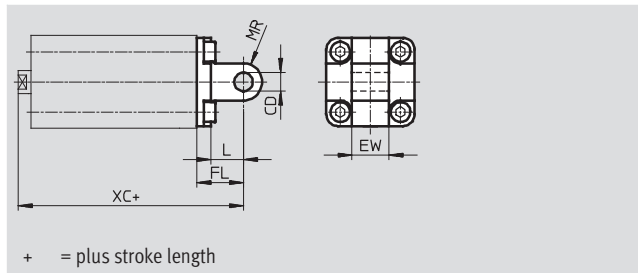
# Compact cylinders ADVUL

Accessories

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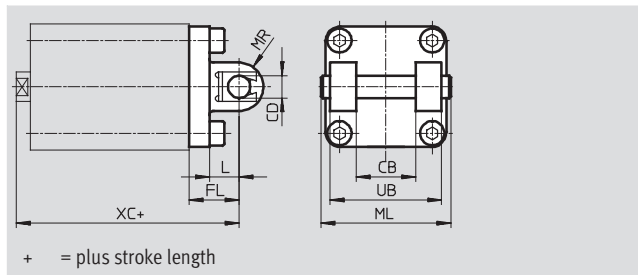
## Swivel flange SUA for piston Ø 12 ... 25 mm

Material:  
Anodised aluminium  
Free of copper, PTFE and silicone



## for piston Ø 32 ... 100 mm

Material:  
Anodised aluminium  
Free of copper, PTFE and silicone



| Dimensions and ordering data |    |    |    |    |    |     |    |     |       |        |                   |
|------------------------------|----|----|----|----|----|-----|----|-----|-------|--------|-------------------|
| For Ø                        | CB | CD | EW | FL | L  | ML  | MR | UB  | XC    | Weight | Part No. Type     |
| [mm]                         |    | Ø  |    |    |    |     |    |     |       | [g]    |                   |
| 12/16                        | –  | 6  | 12 | 16 | 10 | –   | 6  | –   | 58.5  | 43     | 157 319 SUA-12/16 |
| 20                           | –  | 8  | 16 | 20 | 14 | –   | 8  | –   | 62.5  | 78     | 157 320 SUA-20    |
| 25                           | –  | 8  | 16 | 20 | 14 | –   | 8  | –   | 64    | 86     | 157 321 SUA-25    |
| 32                           | 26 | 10 | –  | 22 | 13 | 54  | 10 | 45  | 72.5  | 208    | 157 322 SUA-32    |
| 40                           | 28 | 12 | –  | 25 | 16 | 62  | 12 | 52  | 77    | 320    | 157 323 SUA-40    |
| 50                           | 32 | 12 | –  | 27 | 16 | 70  | 12 | 60  | 80    | 437    | 157 324 SUA-50    |
| 63                           | 40 | 16 | –  | 32 | 21 | 82  | 16 | 70  | 89.5  | 760    | 157 325 SUA-63    |
| 80                           | 50 | 16 | –  | 36 | 23 | 102 | 16 | 90  | 100   | 1 190  | 157 326 SUA-80    |
| 100                          | 60 | 20 | –  | 41 | 26 | 126 | 20 | 110 | 117.5 | 1 900  | 157 327 SUA-100   |

### Note

The maximum stroke length may not be exceeded when combining cylinders and swivel flanges.

| For Ø | Max. stroke length [mm] |
|-------|-------------------------|
| 12    | 50                      |
| 16    | 50                      |
| 20    | 50                      |
| 25    | 50                      |
| 32    | 100                     |

| For Ø | Max. stroke length [mm] |
|-------|-------------------------|
| 40    | 100                     |
| 50    | 100                     |
| 63    | 100                     |
| 80    | 150                     |
| 100   | 150                     |

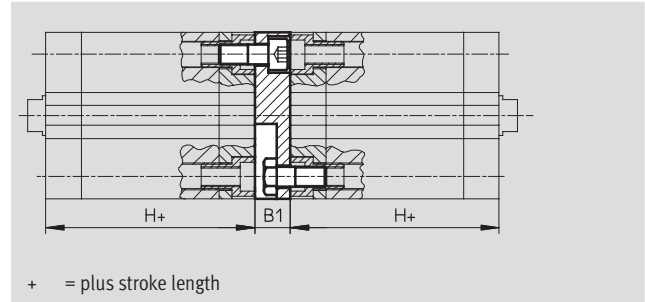
# Compact cylinders ADVUL

Accessories

FESTO

## Adapter kit DPVU

Material:  
Aluminium  
Free of copper, PTFE and silicone



**Note**  
The maximum overall stroke length may not be exceeded when combining cylinders and the multi-position adapter kit.

| Dimensions and ordering data |      |      |                            |                   |        |          |            |
|------------------------------|------|------|----------------------------|-------------------|--------|----------|------------|
| For Ø                        | B1   | H    | Max. overall stroke length | CRC <sup>1)</sup> | Weight | Part No. | Type       |
| [mm]                         |      |      | [mm]                       |                   | [g]    |          |            |
| 12/16                        | 12.5 | 38   | 400                        | 2                 | 22     | 161 194  | DPVU-12/16 |
| 20                           | 12.5 | 38   | 400                        | 2                 | 36     | 161 195  | DPVU-20    |
| 25                           | 13   | 39.5 | 400                        | 2                 | 44     | 161 196  | DPVU-25    |
| 32                           | 14.5 | 44.5 | 600                        | 2                 | 90     | 161 197  | DPVU-32    |
| 40                           | 14.5 | 45.5 | 600                        | 2                 | 137    | 161 198  | DPVU-40    |
| 50                           | 14.5 | 45.5 | 600                        | 2                 | 177    | 161 199  | DPVU-50    |
| 63                           | 14.5 | 50   | 600                        | 2                 | 308    | 161 200  | DPVU-63    |
| 80                           | 16.5 | 56   | 800                        | 2                 | 495    | 161 201  | DPVU-80    |
| 100                          | 19.5 | 66.5 | 800                        | 2                 | 859    | 161 202  | DPVU-100   |

1) Corrosion resistance class 2 according to Festo standard 940 070  
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents

## Connecting two cylinders with identical piston diameter as a 3 or 4-position cylinder

A 3 or 4-position cylinder consists of two separate cylinders whose piston rods advance in opposing directions.

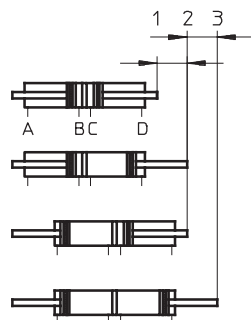
Depending upon actuation and stroke pattern, this type of cylinder can assume up to four positions. In each

case the cylinder is driven precisely against a stop. If one end of the piston rod is fixed, the cylinder barrel

executes the movement. The cylinder must be connected with flexible line connections.

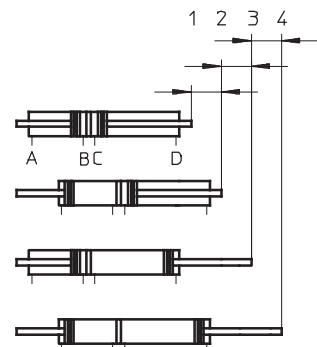
### Implementing 3 positions

Two cylinders with identical stroke length must be connected to this end.



### Implementing 4 positions

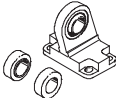
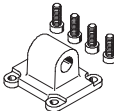
Two cylinders with different stroke lengths must be connected to this end.



# Compact cylinders ADVUL

Accessories

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| Ordering data – Mounting attachments                                               |       |          |           | Technical data → Internet: mounting attachment                                    |        |          |         |
|------------------------------------------------------------------------------------|-------|----------|-----------|-----------------------------------------------------------------------------------|--------|----------|---------|
| Designation                                                                        | For Ø | Part No. | Type      | Designation                                                                       | For Ø  | Part No. | Type    |
| Clevis foot LBN                                                                    |       |          |           | Clevis foot LNG                                                                   |        |          |         |
|   | 12    | 6 058    | LBN-12/16 |  | 32     | 33 890   | LNG-32  |
|                                                                                    | 16    | 6 058    | LBN-12/16 |                                                                                   | 40     | 33 891   | LNG-40  |
|                                                                                    | 20    | 6 059    | LBN-20/25 |                                                                                   | 50     | 33 892   | LNG-50  |
|                                                                                    | 25    | 6 059    | LBN-20/25 |                                                                                   | 63     | 33 893   | LNG-63  |
|                                                                                    |       |          |           |                                                                                   | 80     | 33 894   | LNG-80  |
|                                                                                    |       |          | 100       |                                                                                   | 33 895 | LNG-100  |         |
|                                                                                    |       |          |           |                                                                                   |        |          |         |
| Clevis foot LN                                                                     |       |          |           | Clevis foot LSN                                                                   |        |          |         |
|   | 32    | 5 147    | LN-32     |  | 32     | 5 561    | LSN-32  |
|                                                                                    | 40    | 5 148    | LN-40     |                                                                                   | 40     | 5 562    | LSN-40  |
|                                                                                    | 50    | 5 149    | LN-50     |                                                                                   | 50     | 5 563    | LSN-50  |
|                                                                                    | 63    | 5 150    | LN-63     |                                                                                   | 63     | 5 564    | LSN-63  |
|                                                                                    | 80    | 5 151    | LN-80     |                                                                                   | 80     | 5 565    | LSN-80  |
|                                                                                    | 100   | 5 152    | LN-100    |                                                                                   | 100    | 5 566    | LSN-100 |
|                                                                                    |       |          |           |                                                                                   |        |          |         |
| Swivel flange SNCL                                                                 |       |          |           |                                                                                   |        |          |         |
|  | 32    | 174 404  | SNCL-32   |                                                                                   |        |          |         |
|                                                                                    | 40    | 174 405  | SNCL-40   |                                                                                   |        |          |         |
|                                                                                    | 50    | 174 406  | SNCL-50   |                                                                                   |        |          |         |
|                                                                                    | 63    | 174 407  | SNCL-63   |                                                                                   |        |          |         |
|                                                                                    | 80    | 174 408  | SNCL-80   |                                                                                   |        |          |         |
|                                                                                    | 100   | 174 409  | SNCL-100  |                                                                                   |        |          |         |

| Ordering data – One-way flow control valves                                         |                               |                 |              | Technical data → Internet: grla |                                            |
|-------------------------------------------------------------------------------------|-------------------------------|-----------------|--------------|---------------------------------|--------------------------------------------|
|                                                                                     | Connection                    |                 | Material     | Part No.                        | Type                                       |
|                                                                                     | Thread                        | For tubing O.D. |              |                                 |                                            |
|  | M5                            | 3               | Metal design | 193 137                         | GRLA-M5-QS-3-D                             |
|                                                                                     |                               | 4               |              | 193 138                         | GRLA-M5-QS-4-D                             |
|                                                                                     |                               | 6               |              | 193 139                         | GRLA-M5-QS-6-D                             |
|                                                                                     | G <sup>1</sup> / <sub>8</sub> | 3               |              | 193 142                         | GRLA- <sup>1</sup> / <sub>8</sub> -QS-3-D  |
|                                                                                     |                               | 4               |              | 193 143                         | GRLA- <sup>1</sup> / <sub>8</sub> -QS-4-D  |
|                                                                                     |                               | 6               |              | 193 144                         | GRLA- <sup>1</sup> / <sub>8</sub> -QS-6-D  |
|                                                                                     |                               | 8               |              | 193 145                         | GRLA- <sup>1</sup> / <sub>8</sub> -QS-8-D  |
|                                                                                     | G <sup>1</sup> / <sub>4</sub> | 6               |              | 193 146                         | GRLA- <sup>1</sup> / <sub>4</sub> -QS-6-D  |
|                                                                                     |                               | 8               |              | 193 147                         | GRLA- <sup>1</sup> / <sub>4</sub> -QS-8-D  |
|                                                                                     |                               | 10              |              | 193 148                         | GRLA- <sup>1</sup> / <sub>4</sub> -QS-10-D |

## Compact cylinders ADVUL

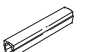
Accessories

**FESTO**

| Ordering data – Proximity sensors for T-slot, magneto-resistive                   |                                                                    |               |                       |                  | Technical data → Internet: smt |                         |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|-----------------------|------------------|--------------------------------|-------------------------|
|                                                                                   | Type of mounting                                                   | Switch output | Electrical connection | Cable length [m] | Part No.                       | Type                    |
| N/O contact                                                                       |                                                                    |               |                       |                  |                                |                         |
|  | Insertable in the slot from above, flush with cylinder profile     | PNP           | Cable, 3-wire         | 2.5              | 543 867                        | SMT-8M-PS-24V-K-2,5-OE  |
|                                                                                   |                                                                    |               | Plug M8x1, 3-pin      | 0.3              | 543 866                        | SMT-8M-PS-24V-K-0,3-M8D |
|                                                                                   |                                                                    |               | Plug M12x1, 3-pin     | 0.3              | 543 869                        | SMT-8M-PS-24V-K-0,3-M12 |
|                                                                                   |                                                                    | NPN           | Cable, 3-wire         | 2.5              | 543 870                        | SMT-8M-NS-24V-K-2,5-OE  |
|                                                                                   |                                                                    |               | Plug M8x1, 3-pin      | 0.3              | 543 871                        | SMT-8M-NS-24V-K-0,3-M8D |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | PNP           | Cable, 3-wire         | 2.5              | 175 436                        | SMT-8-PS-K-LED-24-B     |
|                                                                                   |                                                                    |               | Plug M8x1, 3-pin      | 0.3              | 175 484                        | SMT-8-PS-S-LED-24-B     |
|                                                                                   |                                                                    |               |                       |                  |                                |                         |
| N/C contact                                                                       |                                                                    |               |                       |                  |                                |                         |
|  | Insertable in the slot from above, flush with cylinder profile     | PNP           | Cable, 3-wire         | 7.5              | 543 873                        | SMT-8M-PO-24V-K7,5-OE   |

| Ordering data – Proximity sensors for T-slot, magnetic reed                         |                                                                    |               |                       |                  | Technical data → Internet: sme |                         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------|-----------------------|------------------|--------------------------------|-------------------------|
|                                                                                     | Type of mounting                                                   | Switch output | Electrical connection | Cable length [m] | Part No.                       | Type                    |
| N/O contact                                                                         |                                                                    |               |                       |                  |                                |                         |
|   | Insertable in the slot from above, flush with cylinder profile     | Contacting    | Cable, 3-wire         | 2.5              | 543 862                        | SME-8M-DS-24V-K-2,5-OE  |
|                                                                                     |                                                                    |               |                       | 5.0              | 543 863                        | SME-8M-DS-24V-K-5,0-OE  |
|                                                                                     |                                                                    |               | Cable, 3-wire         | 2.5              | 543 872                        | SME-8M-ZS-24V-K-2,5-OE  |
|                                                                                     |                                                                    |               | Plug M8x1, 3-pin      | 0.3              | 543 861                        | SME-8M-DS-24V-K-0,3-M8D |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | Contacting    | Cable, 3-wire         | 2.5              | 150 855                        | SME-8-K-LED-24          |
|                                                                                     |                                                                    |               | Plug M8x1, 3-pin      | 0.3              | 150 857                        | SME-8-S-LED-24          |
|                                                                                     |                                                                    |               |                       |                  |                                |                         |
| N/C contact                                                                         |                                                                    |               |                       |                  |                                |                         |
|  | Insertable in the slot lengthwise, flush with the cylinder profile | Contacting    | Cable, 3-wire         | 7.5              | 160 251                        | SME-8-O-K-LED-24        |

| Ordering data – Connecting cables                                                   |                               |                              |                  | Technical data → Internet: nebu |                      |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------|------------------|---------------------------------|----------------------|
|                                                                                     | Electrical connection, left   | Electrical connection, right | Cable length [m] | Part No.                        | Type                 |
|  | Straight socket, M8x1, 3-pin  | Cable, open end, 3-wire      | 2.5              | 541 333                         | NEBU-M8G3-K-2.5-LE3  |
|                                                                                     |                               |                              | 5                | 541 334                         | NEBU-M8G3-K-5-LE3    |
|                                                                                     | Straight socket, M12x1, 5-pin | Cable, open end, 3-wire      | 2.5              | 541 363                         | NEBU-M12G5-K-2.5-LE3 |
|                                                                                     |                               |                              | 5                | 541 364                         | NEBU-M12G5-K-5-LE3   |
|  | Angled socket, M8x1, 3-pin    | Cable, open end, 3-wire      | 2.5              | 541 338                         | NEBU-M8W3-K-2.5-LE3  |
|                                                                                     |                               |                              | 5                | 541 341                         | NEBU-M8W3-K-5-LE3    |
|                                                                                     | Angled socket, M12x1, 5-pin   | Cable, open end, 3-wire      | 2.5              | 541 367                         | NEBU-M12W5-K-2.5-LE3 |
|                                                                                     |                               |                              | 5                | 541 370                         | NEBU-M12W5-K-5-LE3   |

| Ordering data – Slot cover for T-slot                                               |                       |          |          |         |  |
|-------------------------------------------------------------------------------------|-----------------------|----------|----------|---------|--|
|                                                                                     | Mounting              | Length   | Part No. | Type    |  |
|  | Insertable from above | 2x 0.5 m | 151 680  | ABP-5-S |  |

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### A Complete Suite of Automation Services

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