

## Air reservoir CRVZS

**FESTO**



Characteristics

At a glance

- To compensate for pressure fluctuations and as accumulators in the event of sudden air consumption.
- Providing large volumes of compressed air for supplying fast-pulsing drives.
- Delay times for pressure build-up can be achieved in combination with throttle valves.

Volume [l]

[0.1] 0.1



[0.4] 0.4



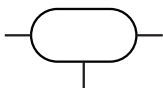
[0.75] 0.75



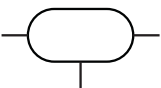
[2] 2



[5] 5



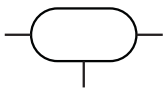
[10] 10



With condensate drain

With condensate drain

[20] 20



With condensate drain

## Type code

| 001   | Series        |
|-------|---------------|
| CRVZS | Air reservoir |

| 002  | Volume [l] |
|------|------------|
| 0.1  | 0.1        |
| 0.4  | 0.4        |
| 0.75 | 0.75       |
| 2    | 2          |
| 5    | 5          |
| 10   | 10         |
| 20   | 20         |

## Datasheet

## General technical data

|                                              |                  |       |        |                   |                             |      |     |
|----------------------------------------------|------------------|-------|--------|-------------------|-----------------------------|------|-----|
| Pneumatic connection                         | G1/8             | G1/4  |        | G1/2              | G1                          |      |     |
| Volume <sup>1)</sup>                         | 0.1 l            | 0.4 l | 0.75 l | 2 l               | 10 l                        | 20 l | 5 l |
| Type of mounting                             | Via fixing clips |       |        | With through-hole |                             |      |     |
| Condensate drain connection                  | –                |       |        | G3/8              |                             |      |     |
| Max. tightening torque for connecting thread | 15 Nm            | 23 Nm |        | 55 Nm             | 130 Nm                      |      |     |
| Max. tightening torque for condensate drain  | –                |       |        |                   | 27 Nm                       |      |     |
| Mounting position                            | optional         |       |        |                   | Condensate drain underneath |      |     |

1) Tolerance: ±20% (G1/8, G1/4, G1/2), ±10% (G1)

## Operating and environmental conditions

|                                                            |                                                     |      |      |                                                    |
|------------------------------------------------------------|-----------------------------------------------------|------|------|----------------------------------------------------|
| Pneumatic connection                                       | G1/8                                                | G1/4 | G1/2 | G1                                                 |
| Operating pressure                                         | -0.095 ... 1.6 MPa                                  |      |      |                                                    |
| Operating pressure                                         | -0.95 ... 16 bar                                    |      |      |                                                    |
| Operating pressure                                         | -13.78 ... 232 psi                                  |      |      |                                                    |
| Operating medium                                           | Compressed air to ISO 8573-1:2010 [:::]<br>Nitrogen |      |      |                                                    |
| Ambient temperature                                        | -10 ... 100°C                                       |      |      |                                                    |
| Media temperature                                          | -10 ... 100°C                                       |      |      |                                                    |
| Corrosion resistance class CRC <sup>1)</sup>               | 3 - high corrosion stress                           |      |      |                                                    |
| Conforms to standard                                       | AD 2000                                             |      |      |                                                    |
| CE mark (see declaration of conformity) <sup>2)</sup>      | –                                                   |      |      | In accordance with EU Pressure Equipment Directive |
| UKCA marking (see declaration of conformity) <sup>3)</sup> | –                                                   |      |      | to UK Pressure Equipment Regulations               |
| Suitable for use with food <sup>4)</sup>                   | See supplementary material information              |      |      |                                                    |
| Approval                                                   | German Technical Control Board (TÜV)                |      |      |                                                    |
| Certificate issuing authority                              | TSSACRNOH17477.5C                                   |      |      | –                                                  |

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

2) More information [www.festo.com/catalogue/crvzs](http://www.festo.com/catalogue/crvzs) → Support/Downloads.

3) More information [www.festo.com/catalogue/crvzs](http://www.festo.com/catalogue/crvzs) → Support/Downloads.

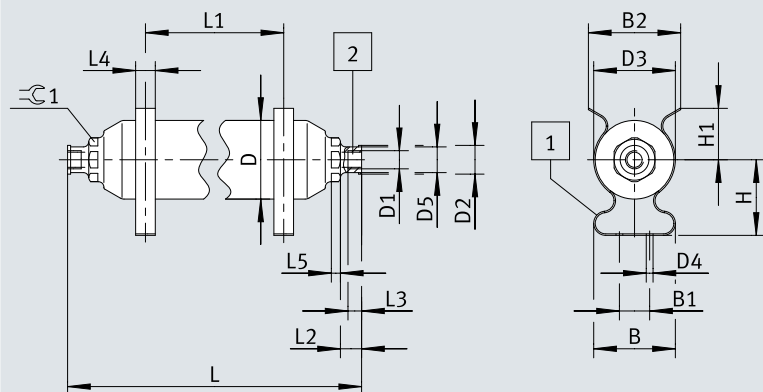
4) More information [www.festo.com/catalogue/crvzs](http://www.festo.com/catalogue/crvzs) → Support/Downloads.

## Materials

|                        |                            |      |      |    |
|------------------------|----------------------------|------|------|----|
| Pneumatic connection   | G1/8                       | G1/4 | G1/2 | G1 |
| Material air reservoir | High-alloy stainless steel |      |      |    |
| Material fixing clips  | High-alloy stainless steel |      |      | –  |
| Note on materials      | RoHS-compliant             |      |      |    |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L          |      |      |    |

## Dimensions

### Dimensions – CRVZS

[Download CAD data](http://www.festo.com)


[1] Fixing clips

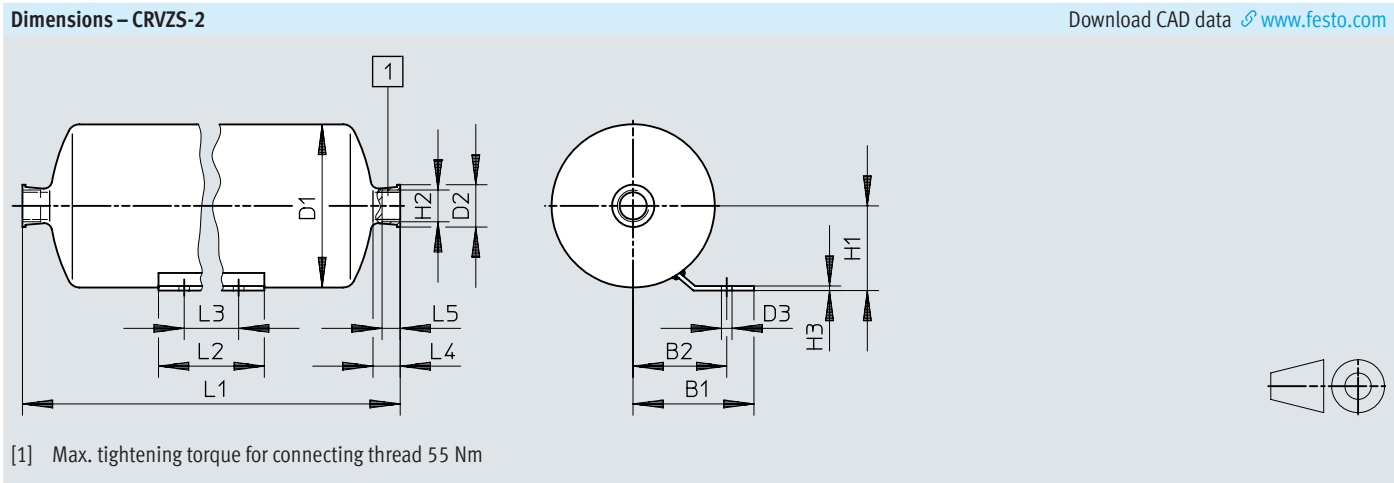
[2] Max. tightening torque for connecting thread 15/23 Nm

|            | B<br>±2 | B1 | B2<br>±2 | D<br>ø | D1   | D2<br>ø | D3<br>ø | D4<br>ø | D5<br>ø<br>±0,2 | H<br>±1 |
|------------|---------|----|----------|--------|------|---------|---------|---------|-----------------|---------|
| CRVZS-0,1  | 51      | 14 | –        | 40     | G1/8 | 15      | 42      | 4,5     | 12,2            | 43      |
| CRVZS-0,4  | 54      | 14 | –        | 52     | G1/4 | 19      | 54      |         | 16              | 50      |
| CRVZS-0,75 | 60      | 20 | 79       | 70     | G1/4 | 19      | 72      |         | 15,7            | 61      |

|            | H1<br>±1 | L<br>±1 | L1   |      | L2 | L3 | L4 | L5 | ≡  |
|------------|----------|---------|------|------|----|----|----|----|----|
|            |          |         | min. | max. |    |    |    |    |    |
| CRVZS-0,1  | 28       | 132     | 13   | 50   | 10 | 6  | 13 | 6  | 19 |
| CRVZS-0,4  | 34       | 240     | 13   | 150  | 14 | 9  |    |    | 27 |
| CRVZS-0,75 | 34       | 248     | 13   | 140  | 14 | 9  |    |    | 27 |

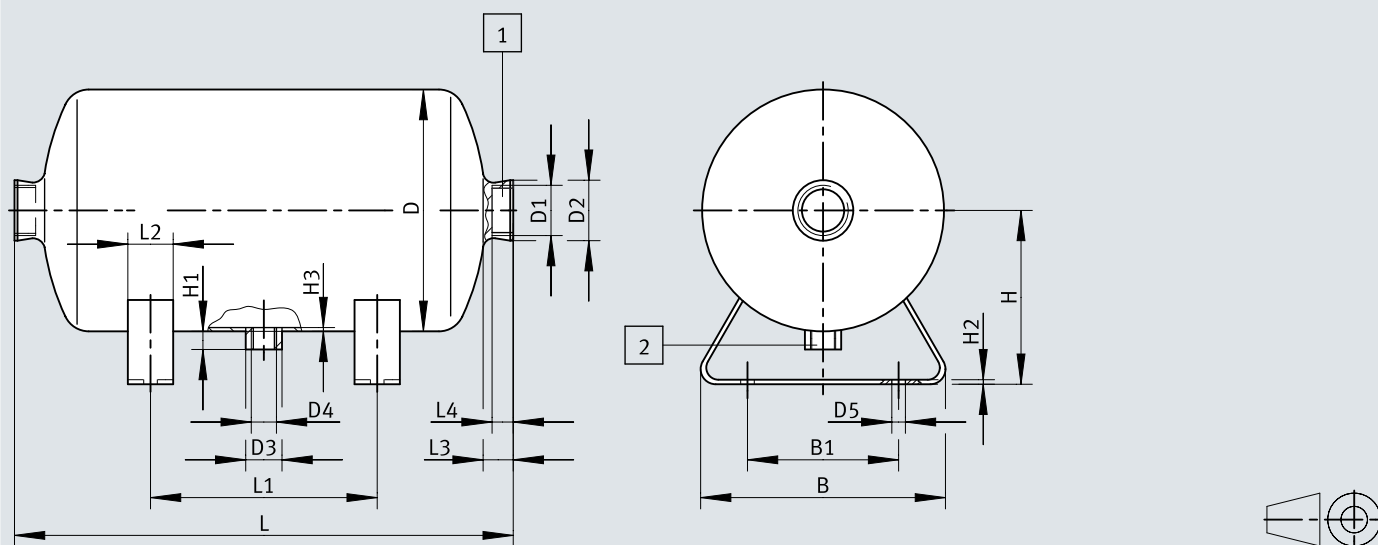
Dimensions



|         | B1<br>±3 | B2<br>±2 | D1<br>∅ | D2<br>∅ | D3<br>∅ | H1<br>±2 | H2   | H3 | L1<br>±3 | L2<br>±2 | L3 | L4 | L5 |
|---------|----------|----------|---------|---------|---------|----------|------|----|----------|----------|----|----|----|
| CRVZS-2 | 80       | 62       | 108     | 28      | 7       | 56       | G1/2 | 3  | 300      | 120      | 86 | 18 | 12 |

## Dimensions

## Dimensions – CRVZS-5

Download CAD data [www.festo.com](http://www.festo.com)

[1] Max. tightening torque for connecting thread 130 Nm

[2] Max. tightening torque for condensate drain 27 Nm

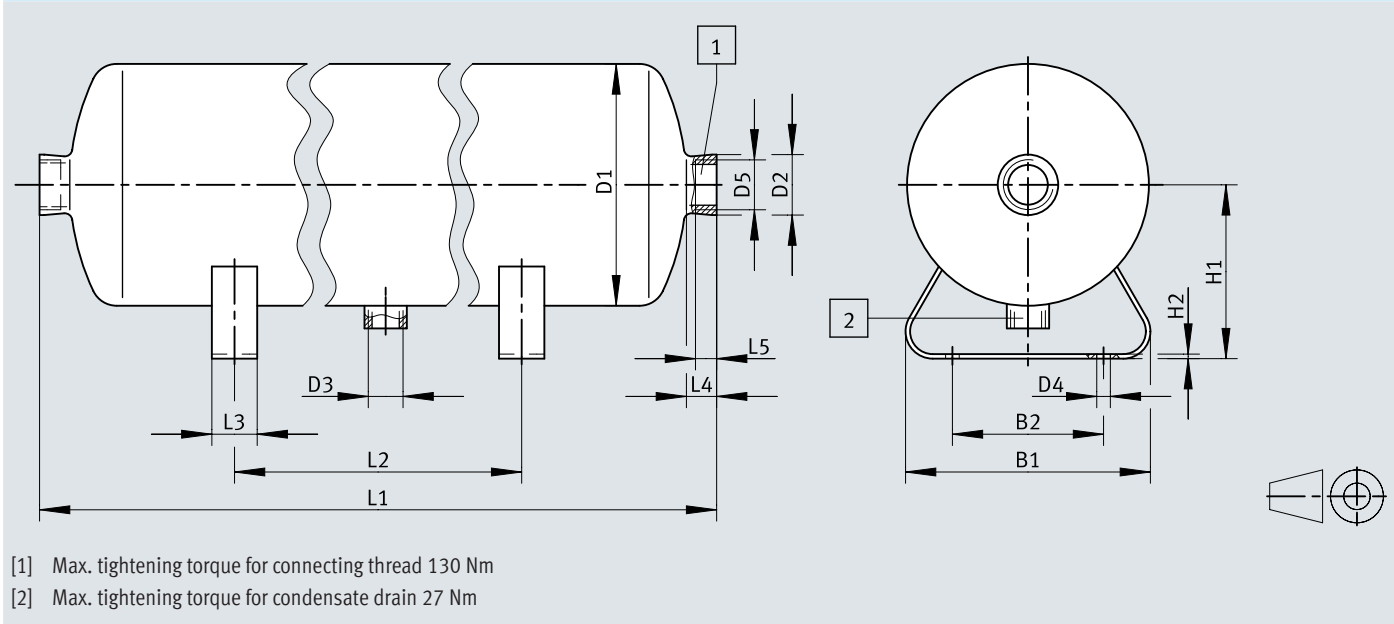
|         | B   | B1  | D<br>ø | D1 | D2<br>ø | D3<br>ø | D4   | D5<br>ø | H    |
|---------|-----|-----|--------|----|---------|---------|------|---------|------|
|         | ±2  | ±1  | ±2     |    |         |         |      | ±0,5    | ±1,5 |
| CRVZS-5 | 162 | 100 | 160    | G1 | 40      | 24      | G3/8 | 9       | 115  |

|         | H1 | H2   | H3  | L   | L1   | L2   | L3 | L4   |
|---------|----|------|-----|-----|------|------|----|------|
|         |    | ±0,2 |     | ±3  | ±1,5 | ±0,4 |    | +1/0 |
| CRVZS-5 | 12 | 3    | 2,5 | 330 | 150  | 30   | 20 | 14   |

Dimensions

Dimensions – CRVZS-10/-20 Download CAD data [www.festo.com](http://www.festo.com)



|          | B1  | B2  | D1<br>ø | D2<br>ø | D3   | D4<br>ø | D5 | H1   | H2   | L1  | L2   | L3   | L4 | L5   |
|----------|-----|-----|---------|---------|------|---------|----|------|------|-----|------|------|----|------|
|          | ±2  | ±1  | ±2      |         |      |         |    | ±1,5 | ±0,2 | +3  | ±1,5 | ±0,4 |    | +1/0 |
| CRVZS-10 | 162 | 100 | 160     | 40      | G3/8 | 9       | G1 | 115  | 3    | 558 | 300  | 30   | 20 | 14   |
| CRVZS-20 |     |     | 194     |         |      |         |    | 136  |      | 740 |      |      |    |      |

## Ordering data

| Ordering data                                                                     |                      |                |          |            |
|-----------------------------------------------------------------------------------|----------------------|----------------|----------|------------|
|                                                                                   | Volume <sup>1)</sup> | Product weight | Part no. | Type       |
|  | 0.1 l                | 226 g          | 160233   | CRVZS-0.1  |
|                                                                                   | 0.4 l                | 543 g          | 160234   | CRVZS-0.4  |
|                                                                                   | 0.75 l               | 736 g          | 160235   | CRVZS-0.75 |
|                                                                                   | 10 l                 | 6,459 g        | 160237   | CRVZS-10   |
|                                                                                   | 2 l                  | 1,681 g        | 160236   | CRVZS-2    |
|                                                                                   | 20 l                 | 10,208 g       | 534845   | CRVZS-20   |
|                                                                                   | 5 l                  | 3,581 g        | 192159   | CRVZS-5    |

1) Tolerance: ±20% (G1/8, G1/4, G1/2), ±10% (G1)