

Air reservoirs

FESTO



Data sheet

Function
CRVZS-0.1/0.4/0.75/2



CRVZS-5/10/20
With condensate drain



•  Temperature range
–10 ... +100°C

•  Operating pressure
–0.95 ... 16 bar



- Compensation of 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 flow control valves

Technical data

Type	CRVZS-0.1	CRVZS-0.4	CRVZS-0.75	CRVZS-2	CRVZS-5	CRVZS-10	CRVZS-20
Pneumatic connection	G1/8	G1/4		G1/2	G1		
Condensate drain connection	–				G3/8		
Type of mounting	Fixing clips			Via through-hole			
Mounting position	Any				Condensate drain underneath		
Volume [l]	0.1 ±20%	0.4 ±20%	0.75 ±20%	2 ±10%	5 ±10%	10 ±10%	20 ±10%
Weight [g]	226	543	736	1681	3581	6459	10208

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Operating and environmental conditions

Type		CRVZS-0.1	CRVZS-0.4	CRVZS-0.75	CRVZS-2	CRVZS-5	CRVZS-10	CRVZS-20
Operating pressure	[MPa]	-0.095 ... +1.6						
	[bar]	-0.95 ... +16						
Operating medium		Compressed air to ISO 8573-1:2010 [---:---]						
		Nitrogen						
Ambient temperature	[°C]	-10 ... +100 (observe operating range of tubing and piping)						
Temperature of medium	[°C]	-10 ... +100 (observe operating range of tubing and piping)						
Corrosion resistance class CRC ¹⁾		3						
Conforms to standard		AD 2000						
CE marking (see declaration of conformity) ²⁾		-				To EU Pressure Equipment Directive		
Food-safe ²⁾		See supplementary material information						
Certification ²⁾		German Technical Control Board (TÜV)						
		CRN						
Certificate issuing authority		TSSACRN0H17477.5C				CRN0H15669.5C		

1) Corrosion resistance class CRC 3 to Festo standard FN 940070

High corrosion stress. Outdoor exposure under moderate corrosive conditions. External visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment.

2) Additional information: www.festo.com/catalogue/crvzs → Support/Downloads.

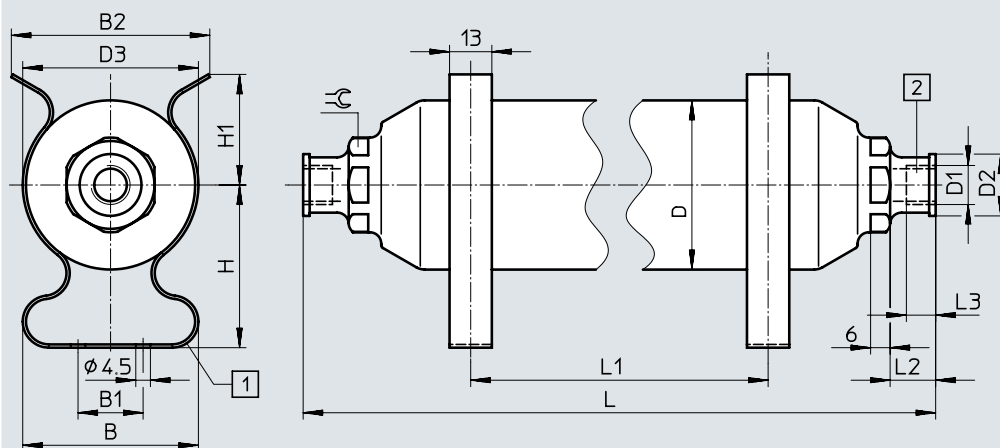
Data sheet

Materials							
Type	CRVZS-0.1	CRVZS-0.4	CRVZS-0.75	CRVZS-2	CRVZS-5	CRVZS-10	CRVZS-20
Air reservoirs	High-alloy stainless steel						
Fixing clips	High-alloy stainless steel			–			
Note on materials	Free of copper and PTFE						
	RoHS-compliant						

Dimensions

Download CAD data → www.festo.com

CRVZS-0.1/CRVZS-0.4/CRVZS-0.75



- [1] Fixing clips
 [2] Max. tightening torque for connecting thread
 → table below

Type	B ±2	B1	B2 ±2	D ∅	D1	D2 ∅	D3 ∅	H ±1	H1 ±1
CRVZS-0.1	51	14	–	40	G1/8	15	42	43	28
CRVZS-0.4	54	14	–	52	G1/4	19	54	50	34
CRVZS-0.75	60	20	79	70	G1/4	19	72	61	34

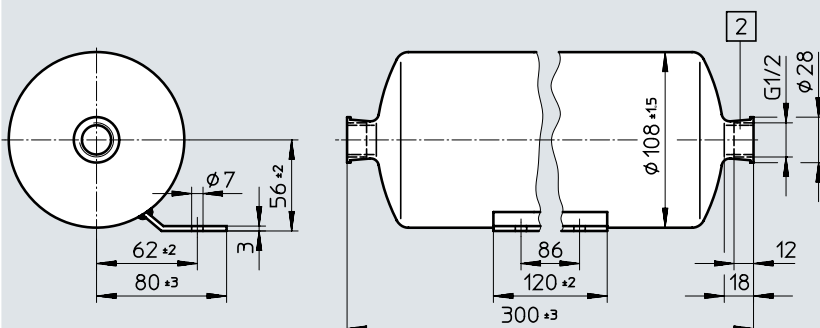
Type	L ±1	L1		L2	L3	≡C	Max. tightening torque Connecting thread [Nm]
		min.	max.				
CRVZS-0.1	132	13	50	10	6	19	15
CRVZS-0.4	240	13	150	14	9	27	23
CRVZS-0.75	248	13	140	14	9	27	23

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Dimensions

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CRVZS-2



- [2] Max. tightening torque for connecting thread: 55 Nm

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Data sheet

Dimensions

CRVZS-5

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Technical drawing of the CRVZS-5 air reservoir. The front view shows a circular body with a central port, a base with two mounting feet, and dimensions: overall width 162 ±2, mounting foot width 100 ±1, and mounting foot height 115 ±1.5. The side view shows a cylindrical body with a diameter of 160 ±2, a total length of 330 ±3, and various mounting and connection details including a G3/8 port, a 24mm diameter drain, and a 40mm diameter base. Callouts [2] and [3] indicate maximum tightening torques.

[2] Max. tightening torque for connecting thread: 130 Nm

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

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Dimensions

CRVZS-10/CRVZS-20

Download CAD data → www.festo.com

Technical drawing of the CRVZS-10 and CRVZS-20 air reservoirs. The front view shows a circular body with a central port, a base with two mounting feet, and dimensions: overall width 162 ±2, mounting foot width 100 ±1, and mounting foot height H1. The side view shows a cylindrical body with a diameter of D1, a total length of L1, and various mounting and connection details including a G3/8 port, a 24mm diameter drain, and a 40mm diameter base. Callouts [2] and [3] indicate maximum tightening torques.

[2] Max. tightening torque for connecting thread
→ table below

[3] Max. tightening torque for condensate drain
→ table below

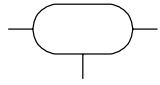
Type	D1 ±2	H1 ±1.5	L1 ±3	Max. tightening torque	
				Connecting thread [Nm]	Condensate drain [Nm]
CRVZS-10	160	115	558	130	27
CRVZS-20	194	136	740	130	27

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Ordering data					
Volume [l]	Part no.	Type	Volume [l]	Part no.	Type
0.1 ±20%	160233	CRVZS-0.1	5 ±10%	192159	CRVZS-5
0.4 ±20%	160234	CRVZS-0.4	10 ±10%	160237	CRVZS-10
0.75 ±20%	160235	CRVZS-0.75	20 ±10%	534845	CRVZS-20
2 ±10%	160236	CRVZS-2			

Data sheet

Function
With condensate drain



— — Temperature range
−10 ... +100°C

— — Operating pressure
−0.95 ... 16 bar



- Compensation of 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 flow control valves

Technical data

Type	VZS-20-B
Pneumatic connection	G1
Condensate drain connection	G3/8
Type of mounting	Via through-hole
Mounting position	Condensate drain underneath
Volume [l]	20 ±10%
Weight [g]	8600

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Operating and environmental conditions

Type	VZS-20-B
Operating pressure [MPa]	−0.095 ... +1.6
[bar]	−0.95 ... +16
Operating medium	Compressed air to ISO 8573-1:2010 [−:−:−]
	Nitrogen
Ambient temperature [°C]	−10 ... +100 (observe operating range of tubing and piping)
Temperature of medium [°C]	−10 ... +100 (observe operating range of tubing and piping)
Corrosion resistance class CRC ¹⁾	4
Conforms to standard	EN 286-1
CE marking (see declaration of conformity)	To EU Simple Pressure Vessels Directive

1) Corrosion resistance class CRC 4 to Festo standard FN 940070

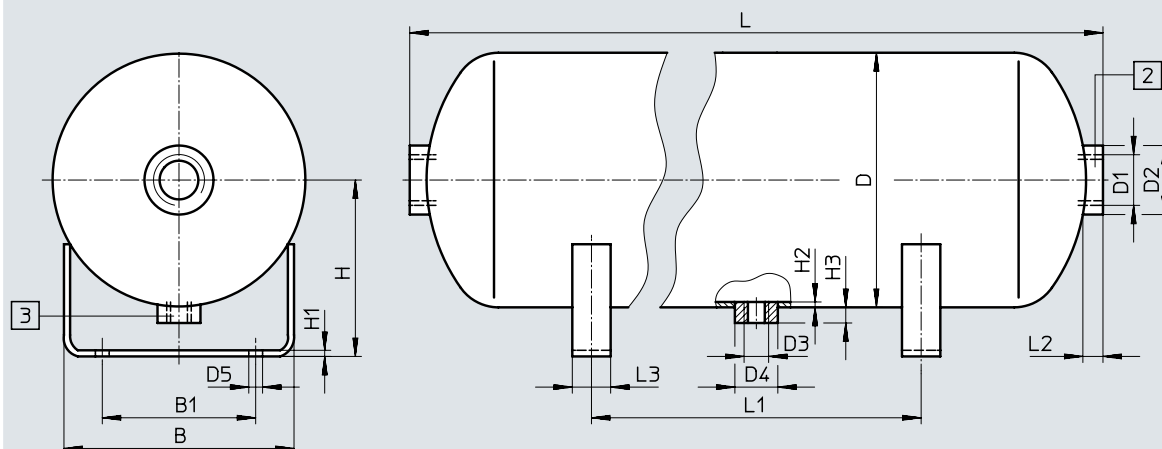
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, e.g. in the chemical or food industries. Such applications may need to be safeguarded by means of special testing (→ also FN 940082), using appropriate media.

Materials

Air reservoirs	Steel, painted
Note on materials	Free of copper and PTFE

Data sheet

Dimensions

Download CAD data → www.festo.com

[2] Max. tightening torque for connecting thread
→ table below

[3] Max. tightening torque for condensate drain
→ table below

Type	B ±2	B1 ±1	D ±4 ∅	D1	D2 ∅	D3	D4 ∅	D5 ±0.5 ∅	H ±1.5	H1
VZS-20-B	150	100	206	G1	44.5	G3/8	28	9	146.5	4

Type	H2 min.	H3	L ±6	L1 ±1.5	L2	L3	Max. tightening torque	
							Connecting thread [Nm]	Condensate drain [Nm]
VZS-20-B	2	12	696	300	18	25	130	27

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Ordering data

Volume [l]	Part no.	Type
20 ±10%	192161	VZS-20-B

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