Air reservoirs

- Stainless steel design according to EU Pressure Equipment Directive and the AD 2000 standard
- Steel design according to EU Simple Pressure Vessel Directive and DIN EN 286-1

Air reservoirs CRVZS

Technical data

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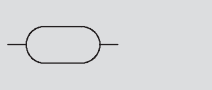
Function
CRVZS-0.1/0.4/0.75/2



CRVZS-5/10/20
with condensate drain

Temperature range
–10 ... +100 °C

Operating pressure
–0.95 ... 16 bar

- The reservoirs can be used to compensate pressure fluctuations, and act as accumulators in the event of sudden air consumption
- They can also be used to provide large quantities of compressed air for supplying fast pulsing drives
- Time delays 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		G⅛	G¼		G½	G1		
Condensate drain connection		–				G⅜		
Type of mounting		Retaining clips			Via through-holes			
Installation position		Any				Condensate drain downwards		
Volume	[l]	0.1	0.4	0.75	2	5	10	20
Weight	[g]	226	543	736	1,681	3,581	6,459	10,208

Operating and environmental conditions								
Type		CRVZS-0.1	CRVZS-0.4	CRVZS-0.75	CRVZS-2	CRVZS-5	CRVZS-10	CRVZS-20
Operating pressure	[bar]	–0.95 ... +16						
Operating medium		Compressed air						
		Nitrogen						
Ambient temperature	[°C]	–10 ... +100 (observe operating range of tubing and pipe)						
Temperature of medium	[°C]	–10 ... +100 (observe operating range of tubing and pipe)						
Corrosion resistance class	CRC[1)]	3						
Conforms to		AD 2000						
CE symbol (see declaration of conformity)		–				In accordance with EU Pressure Equipment Directive		
Food industry approval		DIN EN ISO 14159						

1) Corrosion resistance class 3 according to Festo standard 940 070
Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

Materials								
Type		CRVZS-0.1	CRVZS-0.4	CRVZS-0.75	CRVZS-2	CRVZS-5	CRVZS-10	CRVZS-20
Air reservoir		High-alloy stainless steel						
Retaining clips		High-alloy stainless steel			–			
Note on materials		Free of copper and PTFE						
		Conforms to RoHS						

Air reservoirs CRVZS

Technical data

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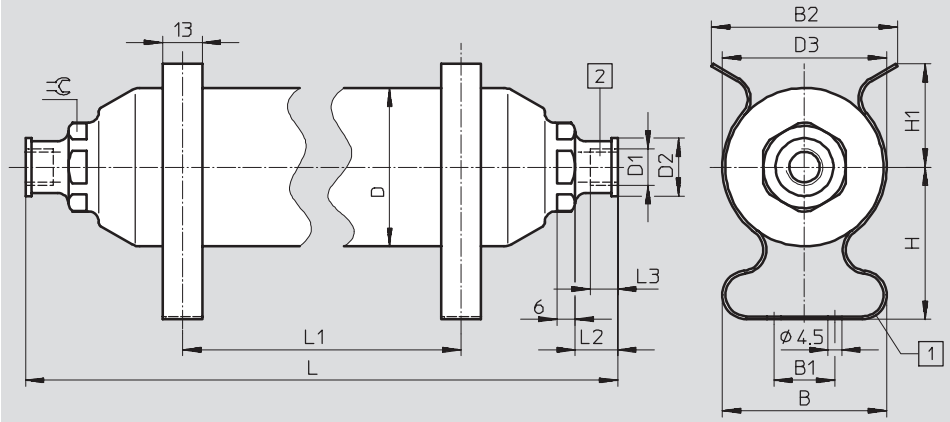
CRVZS-0.1/CRVZS-0.4/CRVZS-0.75



1 Retaining clips
2 For max. tightening torque ➔ table below

Type	B ±2	B1	B2 ±2	D ∅	D1	D2 ∅	D3 ∅	H ±1	H1 ±1
CRVZS-0.1	51	14	–	40	G⅛	15	42	43	28
CRVZS-0.4	54	14	–	52	G¼	19	54	50	34
CRVZS-0.75	60	20	79	70	G¼	19	72	61	34

Type	L ±1	L1 min.	L1 max.	L2	L3	⌀	Max. tightening torque for connecting thread [Nm]
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

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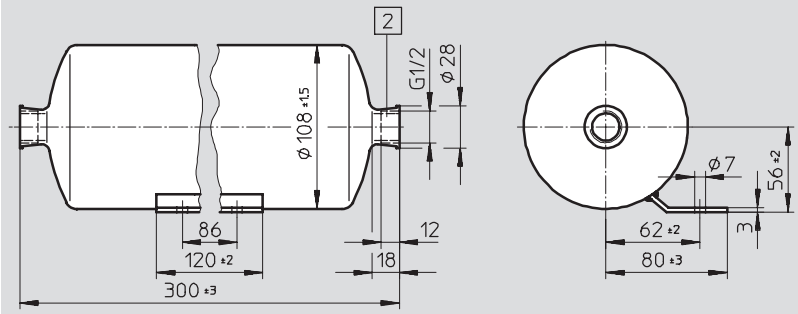
CRVZS-2



2 Max. tightening torque for connecting thread 55 Nm

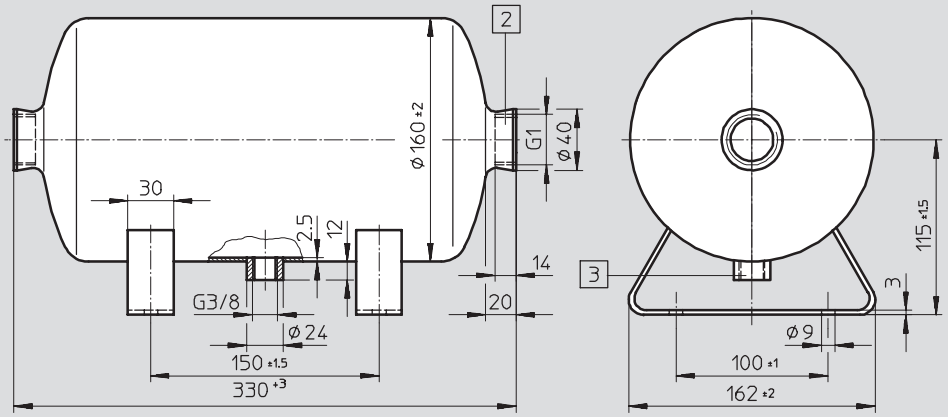
Air reservoirs CRVZS

Technical data

FESTO

Dimensions Download CAD data ➔ **www.festo.com/en/engineering**

CRVZS-5



2 Max. tightening torque for connecting thread 130 Nm
3 Max. tightening torque for condensate drain 27 Nm

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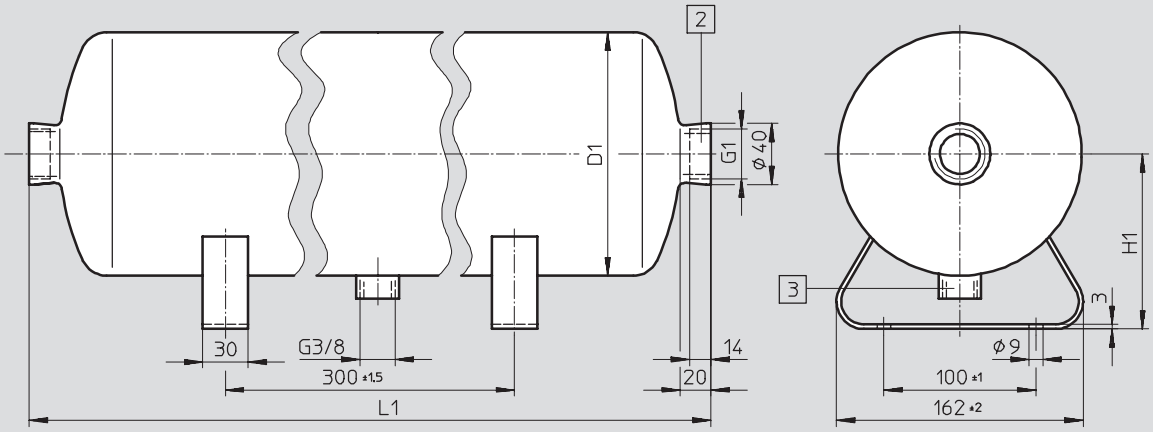
CRVZS-10/CRVZS-20



2 For max. tightening torque ➔ table below

3 For max. tightening torque ➔ 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

Ordering data

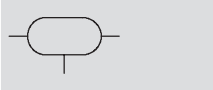
Volume [l]	Part No.	Type	Volume [l]	Part No.	Type
0.1	**160 233**	**CRVZS-0.1**	5	**192 159**	**CRVZS-5**
0.4	**160 234**	**CRVZS-0.4**	10	**160 237**	**CRVZS-10**
0.75	**160 235**	**CRVZS-0.75**	20	**534 845**	**CRVZS-20**
2	**160 236**	**CRVZS-2**			

Air reservoirs VZS

Technical data

FESTO

Function
with condensate drain



Temperature range
–10 ... +100 °C

Operating pressure
–0.95 ... 16 bar

- The reservoirs can be used to compensate pressure fluctuations, and act as accumulators in the event of sudden air consumption
- They can also be used to provide large quantities of compressed air for supplying fast pulsing drives
- Time delays for pressure build-up can be achieved in combination with flow control valves

Technical data				
Type		VZS-5-B	VZS-10-B	VZS-20-B
Pneumatic connection		G1		
Condensate drain connection		G3⁄8		
Type of mounting		Via through-holes		
Installation position		Condensate drain downwards		
Volume	[l]	5	10	20
Weight	[g]	3,500	6,000	8,600

Operating and environmental conditions				
Type		VZS-5-B	VZS-10-B	VZS-20-B
Operating pressure	[bar]	–0.95 ... +16		
Operating medium		Compressed air		
		Nitrogen		
Ambient temperature	[°C]	–10 ... +100 (observe operating range of tubing and pipe)		
Temperature of medium	[°C]	–10 ... +100 (observe operating range of tubing and pipe)		
Corrosion resistance class	CRC[1)]	4		
Conforms to		DIN EN 286-1		
CE symbol (see declaration of conformity)		In accordance with EU Simple Pressure Vessel Directive		

1) Corrosion resistance class 4 according to Festo standard 940 070
Components requiring higher corrosion resistance. Parts used with aggressive media, e.g. food or chemical industry. These applications should be supported with special tests with the media if required

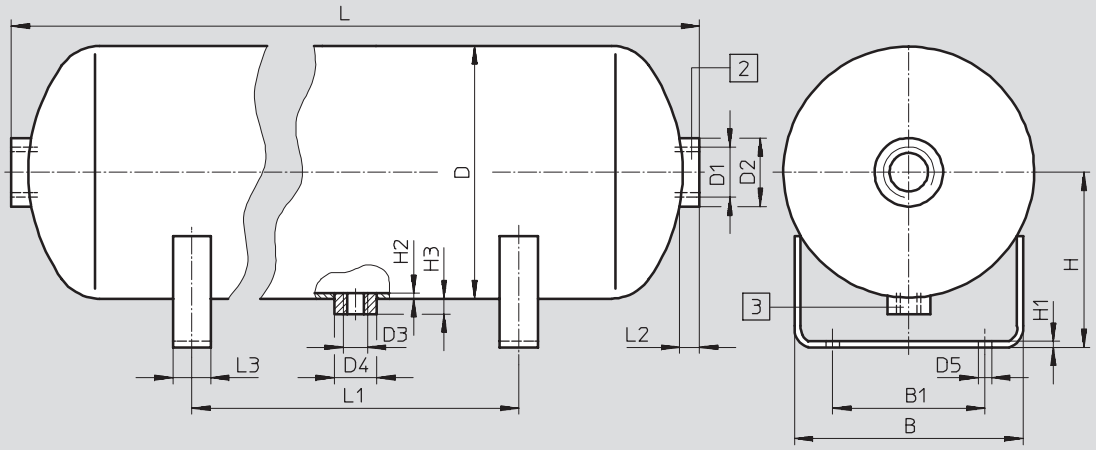
Materials	
Air reservoir	Painted steel
Note on materials	Free of copper and PTFE

Air reservoirs VZS

Technical data

FESTO

Dimensions Download CAD data ➔ **www.festo.com/en/engineering**



2 For max. tightening torque ➔ table below

3 For max. tightening torque ➔ table below

Type	B ±2	B1 ±2	D ±4 ∅	D1	D2 ∅	D3	D4 ∅	D5 ∅	H ±1.5	H1
VZS-5-B	130	90	154	G1	45	G3⁄8	28	9	115	4
VZS-10-B	150	100	166						115	
VZS-20-B	150	100	206						146.5	

Type	H2 min.	H3	L	L1 ±1.5	L2	L3	Max. tightening torque	
							Connecting thread [Nm]	Condensate drain [Nm]
VZS-5-B	2	12	348 ±4	150	18	25	130	27
VZS-10-B			558 ±5	300				
VZS-20-B			696 ±6	300				

Ordering data

Volume [l]	Part No.	Type
5	**192 160**	**VZS-5-B**
10	**151 923**	**VZS-10-B**
20	**192 161**	**VZS-20-B**