

Air reservoirs

FESTO



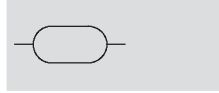
Air reservoirs CRVZS

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Technical data

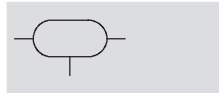
Function

CRVZS-0.1/0.4/0.75/2



CRVZS-5/10/20

with condensate drain



Temperature range

-10 ... +100 °C

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	G $\frac{1}{8}$	G $\frac{1}{4}$		G $\frac{1}{2}$	G1		
Condensate drain connection	-				G $\frac{3}{8}$		
Type of mounting	Retaining clips			Via through-holes			
Installation position	Any				Condensate drain downwards		
Volume [l]	0.1 ±20%	0.4 ±20%	0.75 ±20%	2 ±10%	5 ±10%	10 ±10%	20 ±10%
Weight [g]	226	543	736	1,681	3,581	6,459	10,208

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 [bar]	−0.95 ... +16						
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [−;−;−]						
	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		
Suitable for use in the food industry	As per manufacturer's declaration						
Approval	German Technical Control Board (TÜV)						

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

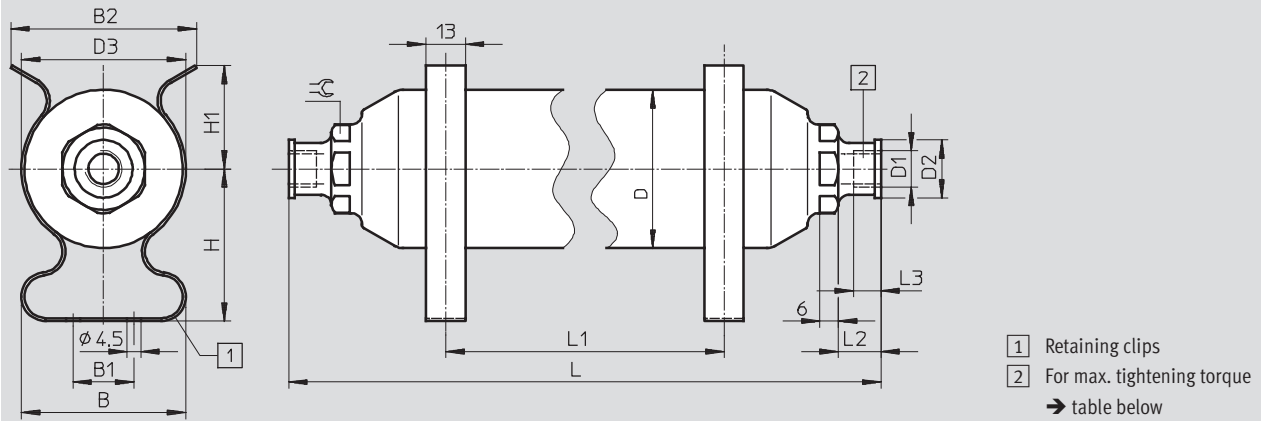
Technical data

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Dimensions

Download CAD Data → www.festo.com/us/cad

CRVZS-0.1/CRVZS-0.4/CRVZS-0.75



Type	B ±2	B1	B2 ±2	D Ø	D1	D2 Ø	D3 Ø	H ±1	H1 ±1
CRVZS-0.1	51	14	–	40	G $\frac{1}{8}$	15	42	43	28
CRVZS-0.4	54	14	–	52	G $\frac{1}{4}$	19	54	50	34
CRVZS-0.75	60	20	79	70	G $\frac{1}{4}$	19	72	61	34

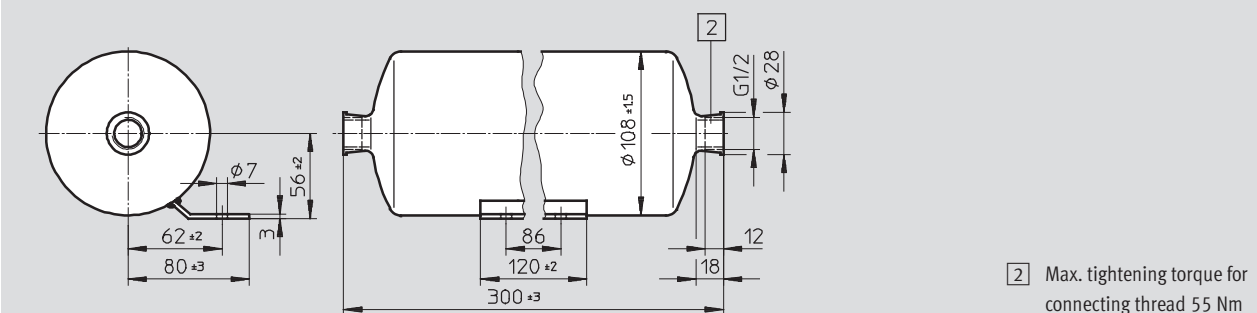
Type	L ±1	L1		L2	L3	≈	Max. tightening torque for connecting thread [Nm]
		min.	max.				
CRVZS-0.1	132	13	50	10	6	19	15
CRVZS-0.4	240	13	150	14	9	27	23
CRVZS-0.75	248	13	140	14	9	27	23

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

Dimensions

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CRVZS-2



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

Air reservoirs CRVZS

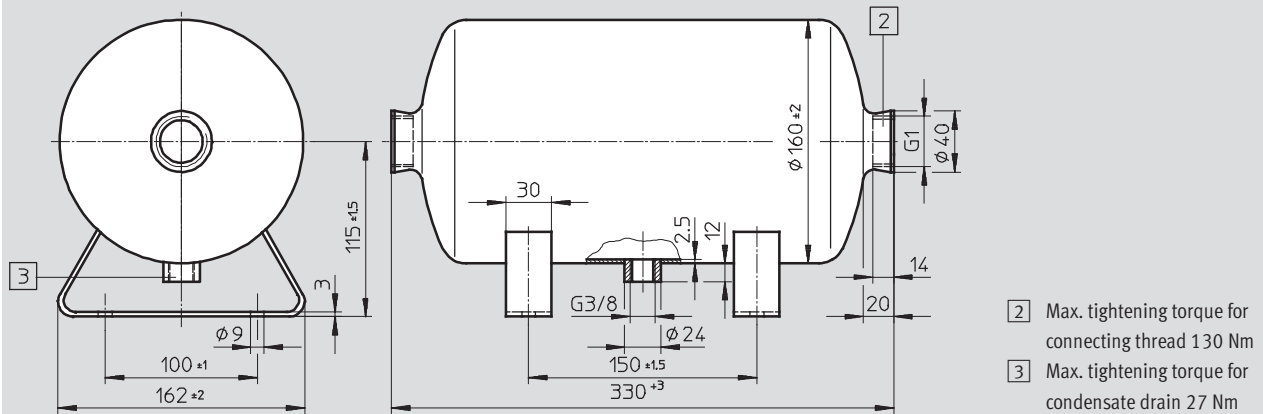
Technical data

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Dimensions

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CRVZS-5

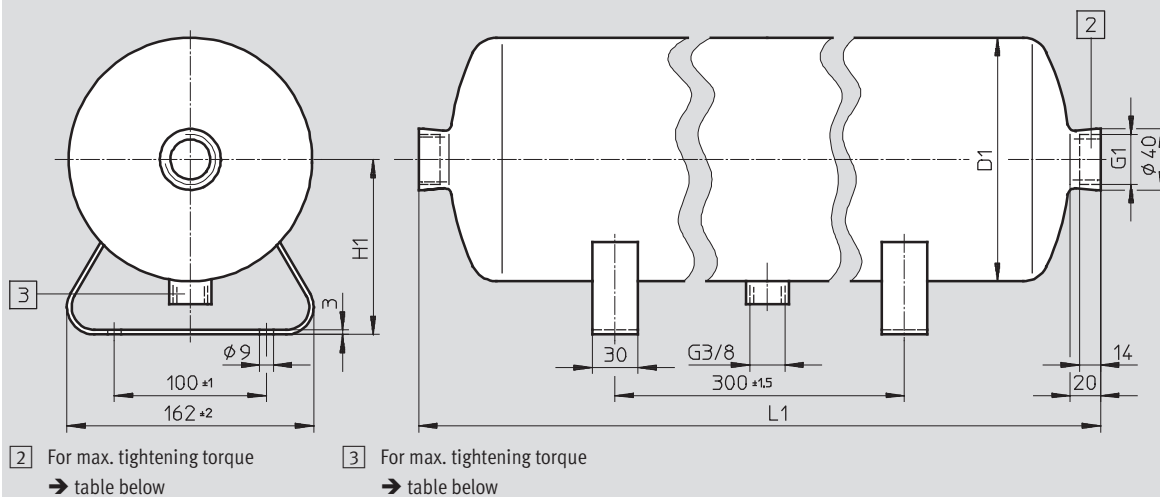


Note: This product conforms to ISO 1179-1 and ISO 228-1

Dimensions

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CRVZS-10/CRVZS-20



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

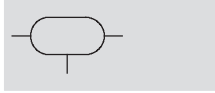
Volume [l]	Part No.	Type	Volume [l]	Part No.	Type
0.1 ±20%	160233	CRVZS-0.1	5 ±10%	192159	CRVZS-5
0.4 ±20%	160234	CRVZS-0.4	10 ±10%	160237	CRVZS-10
0.75 ±20%	160235	CRVZS-0.75	20 ±10%	534845	CRVZS-20
2 ±10%	160236	CRVZS-2			

Air reservoirs VZS

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Technical data

Function
with condensate drain



Temperature range
-10 ... +100 °C

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-20-B
Pneumatic connection	G1
Condensate drain connection	G3/8
Type of mounting	Via through-holes
Installation position	Condensate drain downwards
Volume [l]	20 ±10%
Weight [g]	8,600

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

Operating and environmental conditions	
Type	VZS-20-B
Operating pressure [bar]	-0.95 ... +16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] 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	EN 286-1
CE symbol (see declaration of conformity)	In accordance with EU Simple Pressure Vessel Directive
Approval	German Technical Control Board (TÜV)

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

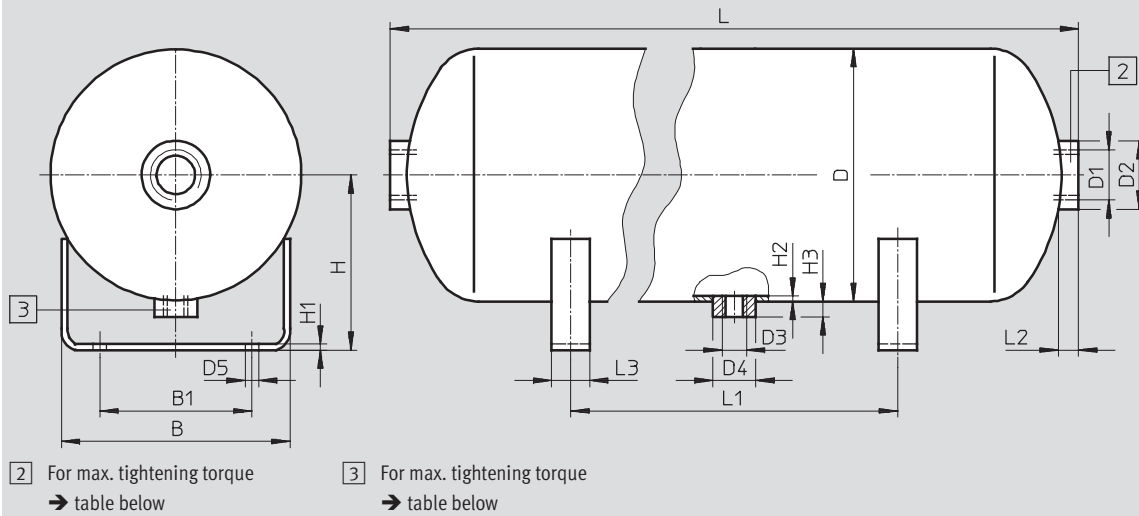
Air reservoirs VZS

Technical data

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Dimensions

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Type	B ±2	B1 ±2	D ±4 Ø	D1	D2 Ø	D3	D4 Ø	D5 Ø	H ±1.5	H1
VZS-20-B	150	100	206	G1	45	G $\frac{3}{8}$	28	9	146.5	4

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