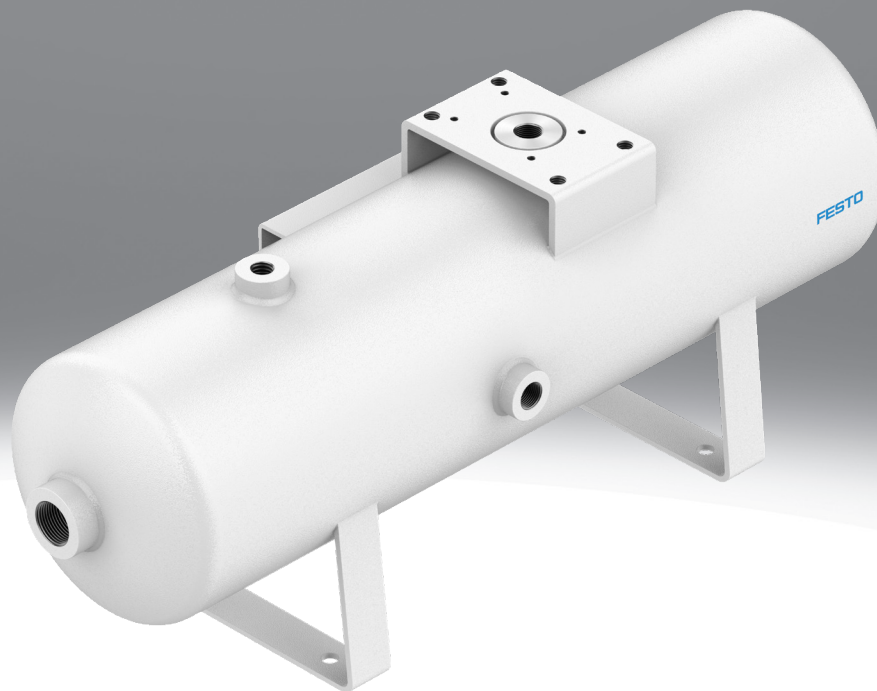


Air reservoir ARVA

FESTO



Characteristics

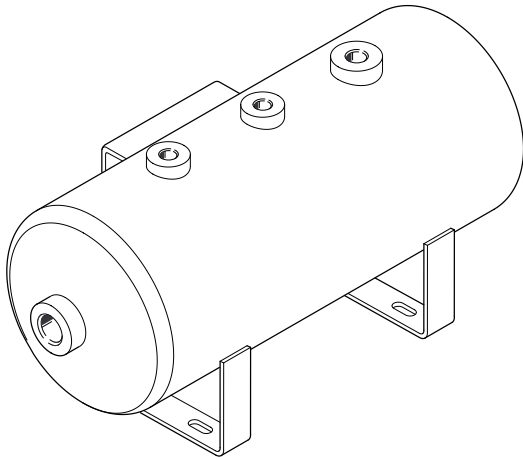
At a glance

Air tank for the PBPA pneumatic pressure amplifier; both can be combined into a compact, integrated solution.

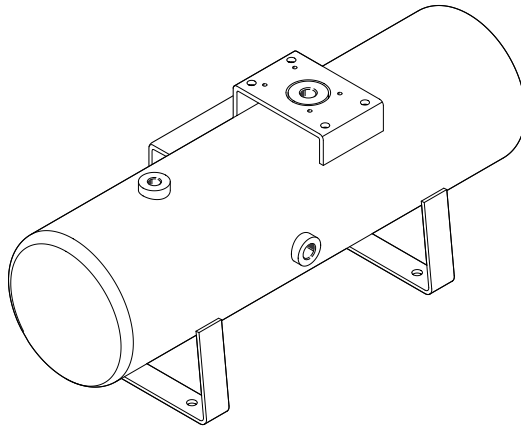
- To compensate for pressure fluctuations and as accumulators in the event of sudden air consumption.
- For provision of larger volumes of compressed air for supplying fast pulsing actuators.
- Delay times for pressure build-up can be achieved in combination with throttle valves.

Mounting method

[] Standard



[P1] with a plate for direct mounting on the PBPA pressure amplifier



Type code

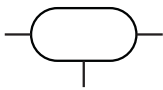
001	Series	
ARVA	Air reservoir	

002	Volume [l]	
5	5	
10	10	
20	20	

003	Mounting method	
	Standard	
P1	with a plate for direct mounting on the PBPA pressure amplifier	

Datasheet

General technical data



Volume	5 l	10 l	20 l
Type of mounting	With through-hole		
Mounting position	Any		

Operating and environmental conditions

Operating pressure	-95 ... 2 MPa
Operating pressure	-950 ... 20 bar
Operating pressure	-13,775 ... 290 psi
Operating medium	Air
Ambient temperature	0 ... 100°C
Temperature of medium	0 ... 100°C
Corrosion resistance class (CRC) ¹⁾	3 - High corrosion stress
CE marking (see declaration of conformity)	as per EU pressure equipment directive
Certification	CRN

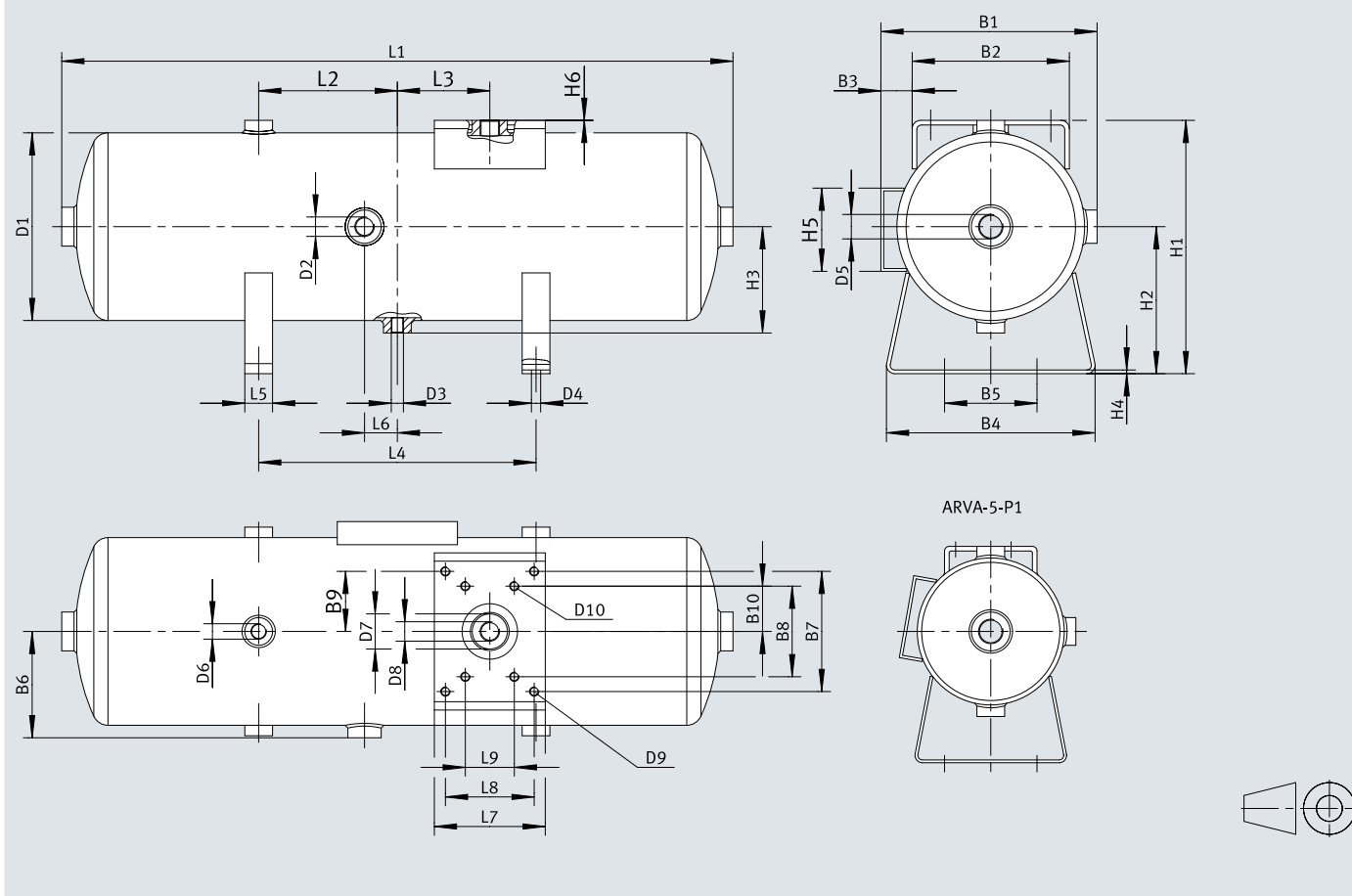
1) Further information, visit www.festo.com/x/topic/kbk

Materials

Air reservoir material	Powder-coated steel
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III

Dimensions

Dimensions – ARVA-...-P1

Download CAD data www.festo.com

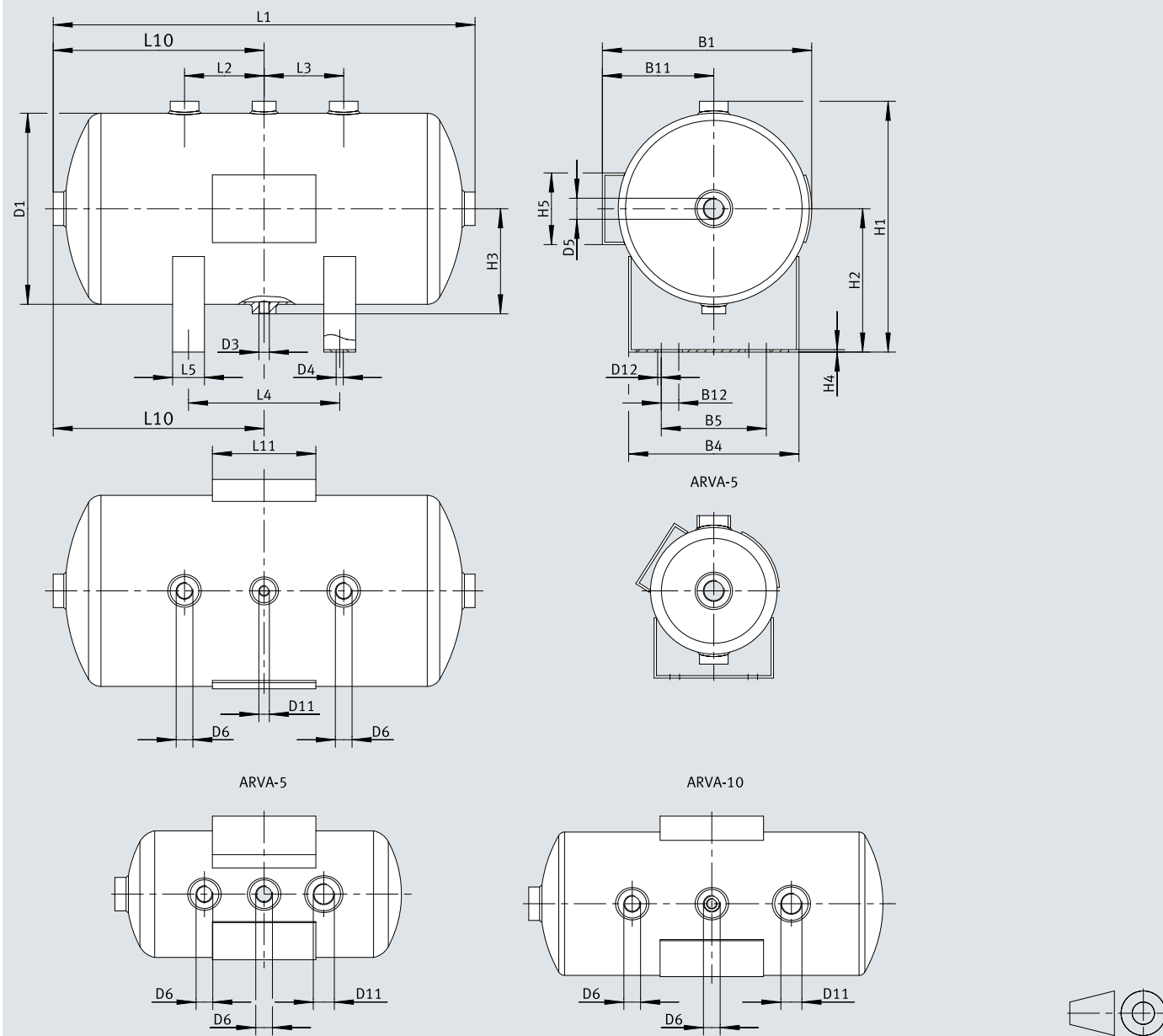
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	D1 ø
				±2	±1		±0,3	±0,3	±0,5	±0,5	
ARVA- 5-P1	190,9	100	48,9	164	100	92	60	–	38	–	159 ±2
ARVA-10-P1	185	120	32,5	166	100	92	60	98	65	49	159 ±2
ARVA-20-P1	233,8	170	33,8	226	100	115	130	98	65	49	203 ±3

	D2 ¹⁾	D3 ¹⁾	D4 ø	D5 ¹⁾	D6 ¹⁾	D7 ø	D8 ¹⁾	D9	D10	H1 ±3	H2
ARVA- 5-P1	Rc 3/8	Rc 1/4	10 +1/0	Rc 3/4	Rc 1/4	30	Rc 3/8	M5	–	234	142 ±1,5
ARVA-10-P1	Rc 3/8	Rc 1/4	10	Rc 3/4	Rc 1/4	38	Rc 3/8	M10	M5	234	142
ARVA-20-P1	Rc 1/2	Rc 1/4	10	Rc 3/4	Rc 3/8	38	Rc 1/2	M10	M10	274	159 ±1,5

	H3	H4	H5	H6	L1	L2	L3	L4	L5	L6	L7	L8	L9
					±3			±1,5				±0,3	±0,3
ARVA- 5-P1	92	3	90	0 ±0.35	340	70	40	150	30	18	60	40	–
ARVA-10-P1	92	4	90	0 ±0.4	616	150	55	300	30	35,5	80	53	40
ARVA-20-P1	115	4	90	0 ±0.45	726	150	100	300	30	35,5	120	96	53

Dimensions

Dimensions – ARVA-...

Download CAD data www.festo.com

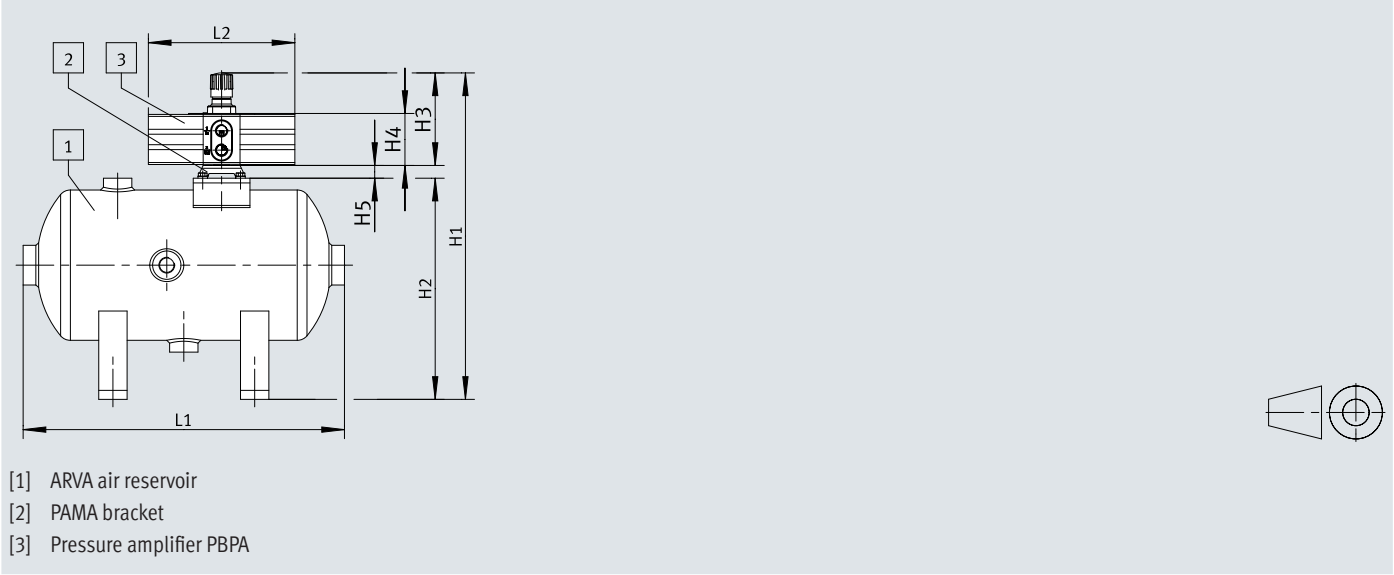
	B1	B4 ±2	B5	B11	B12	D1 ø	D3 ¹⁾	D4 ø	D5 ¹⁾	D6 ¹⁾	D11 ¹⁾	D12
ARVA- 5	180,4	150	110	~98	12	159 ±2	Rc 1/2	9	Rc 3/4	Rc 1/2	Rc 3/4	4,5
ARVA-10	201,6	160	121	110	21	180 ±2	Rc 1/4	9	Rc 3/4	Rc 1/2	Rc 3/4	4,5
ARVA-20	263	214	132	140	22	240 ±3	Rc 1/4	9	Rc 3/4	Rc 1/2	Rc 1/4	4,5

	H1	H2	H3	H4	H5	L1	L2	L3	L4 ±1,5	L5	L10	L11
ARVA- 5	204	109,5	92	3	90	360	75	75	170	30	180	130
ARVA-10	230 ±3	125	102	3	90	445 ±3	100	100	220	30	230	130
ARVA-20	315 ±3	180 ±1,5	132	3	90	530 ±3	100	100	190	40	265	130

Dimensions

Dimensions – ARVA-...-P1 with PBPA pressure amplifier

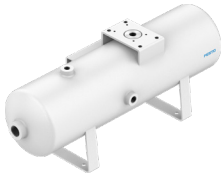
Download CAD data www.festo.com



			H1	H2 ±3	H3	H4	H5	L1 ±3	L2
ARVA- 5-P1	PAMA-P1-MB-40	PBPA-40-...-A	345,5	234	98	55	13,5	340	155
ARVA-10-P1	PAMA-P1-MB-63	PBPA-63-...-A	411	234	159	77	18	616	249
ARVA-20-P1	PAMA-P1-MB-100	PBPA-100-...-A	525,5	274	233	117	18,5	726	333,4

Ordering data

Ordering data – Standard				
	Volume	Product weight	Part no.	Type
	5 l	5,980 g	8240348	ARVA-5
	10 l	7,960 g	8240349	ARVA-10
	20 l	11,720 g	8240350	ARVA-20

Ordering information – includes a plate for direct mounting on the PBPA pressure amplifier				
	Volume	Product weight	Part no.	Type
	5 l	6,100 g	8240345	ARVA-5-P1
	10 l	9,400 g	8240346	ARVA-10-P1
	20 l	14,350 g	8240347	ARVA-20-P1