

Suction Accumulators and Ball Valves

Suction Accumulators

Features

- Hermetic design
- ODF Copper fittings for easy brazing
- Corrosion-resistant epoxy powder coating
- Internal orifice with strainer for optimum oil return
- Temperature range TS: -45°C...+65°C
- Max. allowable pressure PS:
20.7 bar (-10°C...+65°C)
15.5 bar (-45°C...-10°C)
- **CE** marking for certain types according PED
- UL/CUL file number: SA 10225



A08



Selection Table

Type	Part No.	Connection		Nominal Capacity (kW)																Conformity Assessment		Volume (l)*	
				R407C		R134a		R404A / R507		R450A		R513A		R448A / R449A		R410A		R452A		R1234ze			Category
		mm	Inch	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
A08-304	001973		1/2"	7.0	1.1	4.2	0.6	4.6	0.7	4.1	0.6	3.7	0.6	7.2	1.1	8.6	1.3			3.5	0.5	CE Marking Not Required Cat. I/ Mod. A	0.73
A10-305	001977	16	5/8"	10.5	1.6	6.0	0.9	7.0	1.1	5.8	0.9	5.2	0.8	10.8	1.6	12.9	1.9			5.0	0.8		0.93
A06-405	001989	16	5/8"	10.5	1.6	6.0	0.9	7.0	1.1	5.8	0.9	5.2	0.8	10.8	1.6	12.9	1.9			5.0	0.8		0.93
A12-305	001978	16	5/8"	10.5	1.6	6.0	0.9	7.0	1.1	5.8	0.9	5.2	0.8	10.8	1.6	12.9	1.9			5.0	0.8		1.16
A12-306	001979		3/4"	14.0	2.1	8.1	1.2	9.1	1.4	7.8	1.2	7.1	1.1	14.4	2.2	17.1	2.6			6.7	1.0		1.16
A14-305	001980	16	5/8"	10.5	1.6	6.0	0.9	7.0	1.1	5.8	0.9	5.2	0.8	10.8	1.6	12.9	1.9			5.0	0.8		1.40
A14-306	001987		3/4"	14.0	2.1	8.1	1.2	9.1	1.4	7.8	1.2	7.1	1.1	14.4	2.2	17.1	2.6			6.7	1.0		1.40
A10-405	001990	16	5/8"	10.5	1.6	6.0	0.9	7.0	1.1	5.8	0.9	5.2	0.8	10.8	1.6	12.9	1.9			5.0	0.8		1.75
A10-406	001994		3/4"	14.0	2.1	8.1	1.2	9.1	1.4	7.8	1.2	7.1	1.1	14.4	2.2	17.1	2.6			6.7	1.0		1.75
A09-506	881995		3/4"	14.0	2.1	8.1	1.2	9.1	1.4	7.8	1.2	7.1	1.1	14.4	2.2	17.1	2.6			6.7	1.0		2.33
A09-507	882455	22	7/8"	25.6	3.8	14.0	2.1	16.1	2.4	13.6	2.0	12.3	1.8	26.3	3.9	31.3	4.7			11.7	1.8	2.33	
A12-506	881996		3/4"	14.0	2.1	8.1	1.2	9.1	1.4	7.8	1.2	7.1	1.1	14.4	2.2	17.1	2.6			6.7	1.0	3.29	
A12-507	881998	22	7/8"	25.6	3.8	14.0	2.1	16.1	2.4	13.6	2.0	12.3	1.8	26.3	3.9	31.3	4.7			11.7	1.8	3.29	
A13-507	882007	22	7/8"	25.6	3.8	14.0	2.1	16.1	2.4	13.6	2.0	12.3	1.8	26.3	3.9	31.3	4.7			11.7	1.8	3.80	
A13-509	882011		1-1/8"	41.4	6.2	25.3	3.8	26.7	4.0	24.5	3.7	22.2	3.3	42.5	6.4	50.6	7.6			21.0	3.2	3.80	
A17-509	882012		1-1/8"	41.4	6.2	25.3	3.8	26.7	4.0	24.5	3.7	22.2	3.3	42.5	6.4	50.6	7.6			21.0	3.2	4.87	
A17-511	882013	35	1-3/8"	66.0	9.9	37.6	5.6	42.8	6.4	36.4	5.5	33.3	5.0	67.6	10.1	80.6	12.1			31.3	4.7	Cat. I Mod. D1	4.87
A11-607	882014	22	7/8"	25.6	3.8	14.0	2.1	16.1	2.4	13.6	2.0	12.3	1.8	26.3	3.9	31.3	4.7			11.7	1.8	4.30	
A13-607	882015	22	7/8"	25.6	3.8	14.0	2.1	16.1	2.4	13.6	2.0	12.3	1.8	26.3	3.9	31.3	4.7			11.7	1.8	4.98	
A13-609	882019		1-1/8"	41.4	6.2	25.3	3.8	26.7	4.0	24.5	3.7	22.2	3.3	42.5	6.4	50.6	7.6			21.0	3.2	4.98	
A14-611	882020	35	1-3/8"	66.0	9.9	37.6	5.6	42.8	6.4	36.4	5.5	33.3	5.0	67.6	10.1	80.6	12.1			31.3	4.7	5.48	
A17-613	882022		1-5/8"	100.0	15.0	59.7	9.0	63.9	9.6	57.8	8.7	52.4	7.9	102.5	15.4	122.2	18.3			49.7	7.5	6.85	
A17-642	889023	42		100.0	15.0	59.7	9.0	63.9	9.6	57.8	8.7	52.4	7.9	102.5	15.4	122.2	18.3			49.7	7.5	6.85	
A20-613	882021		1-5/8"	100.0	15.0	59.7	9.0	63.9	9.6	57.8	8.7	52.4	7.9	102.5	15.4	122.2	18.3			49.7	7.5	8.21	
A25-613	882023		1-5/8"	100.0	15.0	59.7	9.0	63.9	9.6	57.8	8.7	52.4	7.9	102.5	15.4	122.2	18.3			49.7	7.5	Cat II Mod. D1	10.23

Note 1: For selection of other operating conditions, please use "Controls Navigator" selection program

Note 2: *) Functional volume

Type	Part No.	Connection		Nominal Capacity (kW)																Conformity Assessment		Volume (l) *
				R452B		R455A		R454A		R454B		R454C		R1234yf		R1234ze		R32		Category	Procedure	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
mm	Inch																					
A08-304-L	882453			5.1	0.8	7.9	1.2	7.2	1.1	5.4	0.8	8.2	1.2	3.6	0.5	3.5	0.5	11.0	1.7	CE Marking Not Required	0.73	
A10-305-L	882457	16	5/8"	7.7	1.2	11.8	1.8	10.8	1.6	8.0	1.2	12.4	1.9	5.1	0.8	5.0	0.8	16.5	2.5		0.93	
A06-405-L	882462	16	5/8"	7.7	1.2	11.8	1.8	10.8	1.6	8.0	1.2	12.4	1.9	5.1	0.8	5.0	0.8	16.5	2.5		0.93	
A12-305-L	882458	16	5/8"	7.7	1.2	11.8	1.8	10.8	1.6	8.0	1.2	12.4	1.9	5.1	0.8	5.0	0.8	16.5	2.5	Cat. I Mod. A	1.16	
A12-306-L	882459		3/4"	10.3	1.5	15.8	2.4	14.4	2.2	10.7	1.6	16.5	2.5	6.9	1.0	6.7	1.0	22.0	3.3		1.16	
A14-305-L	882460	16	5/8"	7.7	1.2	11.8	1.8	10.8	1.6	8.0	1.2	12.4	1.9	5.1	0.8	5.0	0.8	16.5	2.5		1.40	
A14-306-L	882461		3/4"	10.3	1.5	15.8	2.4	14.4	2.2	10.7	1.6	16.5	2.5	6.9	1.0	6.7	1.0	22.0	3.3		1.40	
A10-405-L	882463	16	5/8"	7.7	1.2	11.8	1.8	10.8	1.6	8.0	1.2	12.4	1.9	5.1	0.8	5.0	0.8	16.5	2.2		1.75	
A10-406-L	882464		3/4"	10.3	1.5	15.8	2.4	14.4	2.2	10.7	1.6	16.4	2.5	6.9	1.0	6.7	1.0	22.0	3.3		1.75	
A09-506-L	881994		3/4"	10.3	1.5	15.8	2.4	14.4	2.2	10.7	1.6	16.4	2.5	6.9	1.0	6.7	1.0	22.0	3.3		Cat. II Mod. D1	2.33
A09-507-L	882456	22	7/8"	18.8	2.8	28.8	4.3	26.2	3.9	19.5	2.9	30.1	4.5	12.1	1.8	11.7	1.8	40.2	6.0	2.33		
A12-506-L	881997		3/4"	10.3	1.5	15.8	2.4	14.4	2.2	10.7	1.6	16.4	2.5	6.9	1.0	6.7	1.0	22.0	3.3	3.29		
A12-507-L	881999	22	7/8"	18.8	2.8	28.8	4.3	26.2	3.9	19.5	2.9	30.1	4.5	12.1	1.8	11.7	1.8	40.2	6.0	3.29		
A13-507-L	882000	22	7/8"	18.8	2.8	28.8	4.3	26.2	3.9	19.5	2.9	30.1	4.5	12.1	1.8	11.7	1.8	40.2	6.0	3.80		
A13-509-L	882001		1-1/8"	30.3	4.5	46.6	7.0	42.4	6.4	31.6	4.7	48.7	7.3	21.7	3.3	21.0	3.2	64.9	9.7	3.80		
A17-509-L	882002		1-1/8"	30.3	4.5	46.6	7.0	42.4	6.4	31.6	4.7	48.7	7.3	21.7	3.3	21.0	3.2	64.9	9.7	4.87		
A17-511-L	882003	35	1-3/8"	48.3	7.2	74.2	11.1	67.5	10.1	50.3	7.5	77.5	11.6	32.3	4.8	31.3	4.7	103.4	15.5	4.87		
A11-607-L	882004	22	7/8"	18.8	2.8	28.8	4.3	26.2	3.9	19.5	2.9	30.1	4.5	12.1	1.8	11.7	1.8	40.2	6.0	4.30		
A13-607-L	882005	22	7/8"	18.8	2.8	28.8	4.3	26.2	3.9	19.5	2.9	30.1	4.5	12.1	1.8	11.7	1.8	40.2	6.0	4.98		
A13-609-L	882006		1-1/8"	30.3	4.5	46.6	7.0	42.4	6.4	31.6	4.7	48.7	7.3	21.7	3.3	21.0	3.2	64.9	9.7	4.98		
A14-611-L	882008	35	1-3/8"	48.3	7.2	74.2	11.1	67.5	10.1	50.3	7.5	77.5	11.6	32.3	4.8	31.3	4.7	103.4	15.5	5.48		
A17-613-L	882009		1-5/8"	73.2	11.0	112.5	16.9	102.4	15.4	76.3	11.4	117.5	17.6	51.3	7.5	49.7	7.5	156.8	23.5	6.85		
A17-642-L	882010	42		73.2	11.0	112.5	16.9	102.4	15.4	76.3	11.4	117.5	17.6	51.3	7.5	49.7	7.5	156.8	23.5	6.85		
A20-613-L	882016		1-5/8"	73.2	11.0	112.5	16.9	102.4	15.4	76.3	11.4	117.5	17.6	51.3	7.5	49.7	7.5	156.8	23.5	8.21		
A25-613-L	882017			-	-	-	-	-	-	-	-	-	-	-	-	49.7	7.5	-	-	Cat II	Mod. D1	10.23

Ball Valves Series BVE/BVS and CVE/CVS

Features

- BVE/S, Max. allowable pressure PS: 45 bar
- CVE/S for CO₂, max. allowable pressure PS: 60 bar
- BVS/CVS version with Schrader valve
- Two threads at valve body for easy mounting
- Hermetic design with Laser welded valve body
- Bi-directional flow characteristics
- Valve cap retained by strap attached to main body
- Pressure relief port design
- CE Marking acc. PED (from BVE-138 up to BVE-318)
- To protect valve from unauthorized use a special seal cap is available as accessory



Selection Table BVE/BVS (UL Approved)

Type BVE	Part No.	Type BVS	Part No.	Connection size ODF	
				(inch)	(mm)
BVE-014	806 730	BVS-014	806 750	1/4"	
BVE-M06	806 731	BVS-M06	806 751		6 mm
BVE-038	806 732	BVS-038	806 752	3/8"	
BVE-M10	806 733	BVS-M10	806 753		10 mm
BVE-012	806 734	BVS-012	806 754	1/2"	
BVE-M12	806 735	BVS-M12	806 755		12 mm
BVE-058	806 736	BVS-058	806 756	5/8"	16 mm
BVE-034	806 737	BVS-034	806 757	3/4"	
BVE-078	806 738	BVS-078	806 758	7/8"	22 mm
BVE-118	806 739	BVS-118	806 759	1 1/8"	
BVE-M28	806 740	BVS-M28	806 760		28 mm
BVE-138	806 741	BVS-138	806 761	1 3/8"	35 mm
BVE-158	806 742	BVS-158	806 762	1 5/8"	
BVE-M42	806 743	BVS-M42	806 763		42 mm
BVE-218	806 744	BVS-218	806 764	2 1/8"	54 mm
BVE-258	806 745	BVS-258	806 765	2 5/8"	
BVE-318	806746	BVS-318	806766	3 1/8"	

Technical Data

Max. Allowable Pressure PS	BVE/BVS 45 bar; CVE/CVS 60 bar
Test Pressure PT	BVE/BVS 49.5 bar; CVE/CVS 66 bar
Medium Temperature TS	-40 ... 120°C
Medium Compatibility	A1: R410A R134a R22 R404A R507 R407C R1234ze R448A R449A R450A R513A R744 R124 R452A, A2L*: R32, R452B, R455A, R454A, R454B, R454C, R1234yf, R1234ze

Accessories - Special Seal Caps

BVE / BVS , CVE / CVS Valve Size	Part No.	Thread (3)	Quantity Per Pack
1/4" ... 7/8" (6 ... 22 mm)	806 770	M18x1	10 pcs
1 -1/8" ... 1-3/8" (28 ... 35 mm)	806 771	M27x1	10 pcs
1-5/8" (42 mm) ... 3-1/8"	806 772	M36x1	10 pcs

Selection table CVE/CVS (Not UL Approved)

Type CVE	Part No.	Type CVS	Part No.	Connection size ODF	
				(inch)	(mm)
CVE-014	808 130	CVS-014	808 150	1/4"	
CVE-M06	808 131	CVS-M06	808 151		6 mm
CVE-038	808 132	CVS-038	808 152	3/8"	
CVE-M10	808 133	CVS-M10	808 153		10 mm
CVE-012	808 134	CVS-012	808 154	1/2"	
CVE-M12	808 135	CVS-M12	808 155		12 mm
CVE-058	808 136	CVS-058	808 156	5/8"	16 mm
CVE-034	808 137	CVS-034	808 157	3/4"	
CVE-078	808 138	CVS-078	808 158	7/8"	22 mm