

Ball Valve

The ball valve of series SBV is applicable for commercial air conditioner, freezing or deep-freezing equipment or other refrigeration circuits in order to open and to shut off inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc.



FEATURES

- STRAIGHTWAY TYPE, FULL PORT, LOW PRESSURE DROP , COST-EFFECTIVE
- VALVE BODY AND VALVE SEAT WITH WELDED STRUCTURE, WITH HIGH PRODUCT RELIABILITY
- ROTATE 1/4 CIRCLES FROM FULL-OPEN TO FULL-CLOSE, EASY TO OPERATE
- BIDIRECTIONAL FLOW
- ROTATION STOP ON REQUEST FOR FULL-OPEN AND FULL-CLOSE OF THE VALVE
- SPECIAL SEALING MATERIALS TO PREVENT INTERNAL LEAKAGE

GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC, HFO refrigerants such as: R22, R134a, R404A, R407A/F, R407C, R410A, R448A, R449A, R450A, R452A, R513A, R507A¹⁾
- Medium temperature TS min./max.: -40°C / +120°C
- Max. operating pressure PS: 4,5 MPa (45 bar)
- Installation position: liquid, suction and discharge line in all directions
- Certifications: UL/CSA and PED declaration

Note: 1) Flammable refrigerants like R32, R290, R1234ze(E), R1234yf on request



GENERAL CHARACTERISTICS

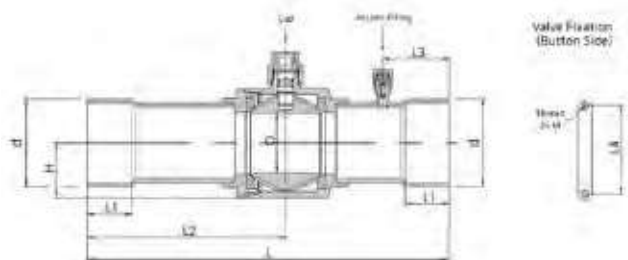
Without Access Fitting		Connections Ø d ODF		Kv	Wrench Size Cap	PED category	With Access Fitting	
Model	Part Number*	[inch]	[mm]	[m³/h]	[mm]		Model	Part Number*
SBV02-020	10150092002	-	6	1,9	19	4.3	SBV02-320	10150094702
SBV02-019	10150091902	1/4	-	1,9	19	4.3	SBV02-319	10150094602
SBV03-019	10150091802	3/8	-	5,5	19	4.3	SBV03-319	10150094802
SBV03-020	10150092102	-	10	5,5	19	4.3	SBV03-320	10150094902
SBV04-020	10150092202	-	12	10,2	19	4.3	SBV04-320	10150095102
SBV04-019	10150090502	1/2	-	10,2	19	4.3	SBV04-319	10150095002
SBV(M)-A5YHSY-2-S	10150057602	-	15	13,2	14	4.3	SBV(M)-JA5YHSY-2-S	10150057702
SBV(M)-A5YHSY-1-S	10150053302	5/8	16	13,8	14	4.3	SBV(M)-JA5YHSY-1-S	10150053402
SBV(M)-A6YHSY-2-S	10150054602	-	18	19,5	17	4.3	SBV(M)-JA6YHSY-2-S	10150054502
SBV(M)-A6YHSY-1-S	10150054302	3/4	-	19,5	17	4.3	SBV(M)-JA6YHSY-1-S	10150054202
SBV(M)-A7YHSY-1-S	10150053502	7/8	22	28,0	17	4.3	SBV(M)-JA7YHSY-1-S	10150053602
SBV(M)-A9YHSY-2-S	10150055102	-	28	51,5	17	4.3	SBV(M)-JA9YHSY-2-S	10150055202
SBV(M)-A9YHSY-1-S	10150054702	1 1/8	-	51,5	17	4.3	SBV(M)-JA9YHSY-1-S	10150054802
SBV(M)-A11YHSY-1-S	10150055002	1 3/8	35	80,0	17	I	SBV(M)-JA11YHSY-1-S	10150054902
SBV(M)-A13YHSY-2-S	10150055502	1 5/8	-	119,8	17	I	SBV(M)-JA13YHSY-2-S	10150055402
SBV(M)-A13YHSY-1-S	10150055302	-	42	119,8	17	I	SBV(M)-JA13YHSY-1-S	10150057802
SBV(M)-A17YHSY-1-S	10150055702	2 1/8	54	225	19	I	SBV(M)-JA17YHSY-1-S	10150055802
SBV(M)-A19YHSY-1-S	10150055902	-	64	225	19	I	SBV(M)-JA19YHSY-1-S	10150056002
SBV(M)-A21YHSY-2-S	10150056302	2 5/8	-	305	19	I	SBV(M)-JA21YHSY-2-S	10150056402
SBV(M)-A25YHSY-2-S	10150056502	3 1/8	80	635	24	I	SBV(M)-JA25YHSY-2-S	10150056602
SBV(M)-A29YHSY-1-S	10150057002	3 5/8	92	805	26	I	SBV(M)-JA29YHSY-1-S	10150056902
SBV(M)-A33YHSY-2-S	10150056102	4 1/8	105	950	32	I	SBV(M)-JA33YHSY-2-S	10150056202
SBV(M)-A34YHSY-1-S	10150057102	4 1/4	108	950	32	I	SBV(M)-JA34YHSY-1-S	10150057202

Note: SBV model with connection size 3-1/2" (89mm) available on request

* Available also as industrial package. Contact Sanhua for more details.



DIMENSIONS & WEIGHT

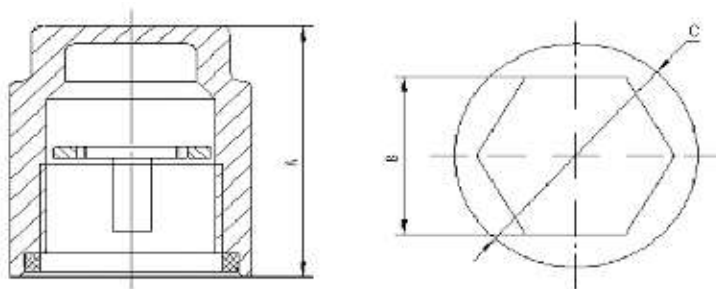


Part Number		L	L1	L2	L3 ¹⁾	L4	D	H	M	Weight
Without access fitting	With Access Fitting	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
SBV02-020	SBV02-320	132	10	68	31	16	10	14	M4 x 0,7	0,20
SBV02-019	SBV02-319	132	10	68	31	16	10	14	M4 x 0,7	0,20
SBV03-019	SBV03-319	132	10	68	31	16	10	14	M4 x 0,7	0,20
SBV03-020	SBV03-320	132	10	68	31	16	10	14	M4 x 0,7	0,20
SBV04-020	SBV04-320	160	10	85	42,5	16	10	14	M4 x 0,7	0,21
SBV04-019	SBV04-319	160	10	85	42,5	16	10	14	M4 x 0,7	0,21
SBV(M)-A5YHSY-2-S	SBV(M)-JA5YHSY-2-S	160	13	85	31	22	14	16	M4 x 0,7	0,30
SBV(M)-A5YHSY-1-S	SBV(M)-JA5YHSY-1-S	160	13	85	31	22	14	16	M4 x 0,7	0,30
SBV(M)-A6YHSY-2-S	SBV(M)-JA6YHSY-2-S	185	16	99	37	30	19	20	M4 x 0,7	0,51
SBV(M)-A6YHSY-1-S	SBV(M)-JA6YHSY-1-S	185	16	99	37	30	19	20	M4 x 0,7	0,51
SBV(M)-A7YHSY-1-S	SBV(M)-JA7YHSY-1-S	185	17	99	37	30	19	20	M4 x 0,7	0,52
SBV(M)-A9YHSY-2-S	SBV(M)-JA9YHSY-2-S	208	21	112	44	38	25	25	M4 x 0,7	0,73
SBV(M)-A9YHSY-1-S	SBV(M)-JA9YHSY-1-S	208	21	112	44	38	25	25	M4 x 0,7	0,73
SBV(M)-A11YHSY-1-S	SBV(M)-JA11YHSY-1-S	251	25	136	44	48	32	31	M6 x 1,0	1,42
SBV(M)-A13YHSY-2-S	SBV(M)-JA13YHSY-2-S	281	28	151	56	55	38	35	M6 x 1,0	1,90
SBV(M)-A13YHSY-1-S	SBV(M)-JA13YHSY-1-S	281	28	151	56	55	38	35	M6 x 1,0	1,90
SBV(M)-A17YHSY-1-S	SBV(M)-JA17YHSY-1-S	305	34	167	56	74	50	46	M6 x 1,0	3,74
SBV(M)-A19YHSY-1-S	SBV(M)-JA19YHSY-1-S	305	34	167	70	74	50	46	M6 x 1,0	3,79
SBV(M)-A21YHSY-2-S	SBV(M)-JA21YHSY-2-S	305	37	167	56	74	60	56	M6 x 1,0	6,08
SBV(M)-A25YHSY-2-S	SBV(M)-JA25YHSY-2-S	378	42	186	80	90	70	63	M6 x 1,0	8,81
SBV(M)-A29YHSY-1-S	SBV(M)-JA29YHSY-1-S	423	42	208	75	108	80	75	M6 x 1,0	11,47
SBV(M)-A33YHSY-2-S	SBV(M)-JA33YHSY-2-S	423	42	210,0	75	148	95	91	M6 x 1,0	20,17
SBV(M)-A34YHSY-1-S	SBV(M)-JA34YHSY-1-S	423	42	210,0	75	148	95	91	M6 x 1,0	20,17

Note: 1) Applicable to versions with access fitting



ACCESSORIES



Anti-Rotation Device

Model	Part Number*	Applicable for SBV models with:		Cap Nut	Dimensions mm		
		Inch connections:	Metric connections:		A	B	C
SK01	10150061902	1" 1/8 - 1" 3/8	28mm - 35mm	M18X1-6H	27,0	H17	Ø 24
SK02	10150062002	1" 5/8	42mm	M22X1-6H	27,5	H17	Ø 26
SK03	10150062102	2" 1/8 - 2" 5/8	54mm - 64mm	M22X1-6H	27,5	H19	Ø 28
SK04	10150062202	3" 1/8 - 3" 5/8	80mm - 92mm	M26X1-6H	29,5	H24	Ø 32
SK05	10150062302	4" 1/8 - 4" 1/4	105mm - 108mm	M32X1-6H	32,0	H29	Ø 38

* Available also as industrial package. Contact Sanhua for more details.