

Dry All®

Full Range of HVAC&R Line Products



**Rotolock Valves, Snub Adaptors &
Stub Adaptors**

Introduction

Dry All Rotolock valve plays a critical role in controlling the flow of refrigerant within the system. Dry All Rotolock valves find application in various refrigeration and air conditioning systems where precise control of refrigerant flow and ease of maintenance are important. Rotolock valves are often used at the inlet and outlet of compressors in refrigeration and air conditioning systems. They allow for easy removal and replacement of compressors for servicing or replacement.

Key Features

- **Efficient Sealing:** The stem with PTFE sealing offers excellent sealing performance, with low friction, and extends the valve's service life.
- **Ease of Handling:** Its straightforward design makes it simple to install, repair, and maintain, saving time and effort.
- **Robust Construction:** The entire brazing process in furnace enhances the valve's durability and robustness, ensuring reliable operation.
- **Corrosion Resistance:** Effective surface treatment provides the valve with strong resistance to corrosion, ensuring long-term performance.

Applications

- Refrigerant Management
- Pressure Regulation
- Safety and protection of System
- Component Connector
- Service and maintenance of System
- Refrigerant charging and recovery

Work Instructions

1. **Torque Direction:** Operate the valve by applying clockwise torque to close it and anticlockwise torque to open it.

Routine Adjustment: For daily usage, follow these steps:

- a. Loosen the packing nut by half a turn.
- b. Adjust the stem to the desired position.
- c. Carefully retighten the packing nut to maintain the adjusted setting.

2. **Ensure Proper Seal:** Prior to operation, verify that the valve is properly sealed in the closed position by applying clockwise torque, and in the open position by applying anticlockwise torque.

3. **Regular Maintenance:** Periodically inspect the valve for wear, damage, or leaks to ensure optimal performance and safety.

Technical specification

All Dry All Brass Rotolock valve are designed as per following technical specifications.

1. Max Working Pressure
A.30 Bar (Air)
B.45 Bar (Liquid)
2. Fluid Working Temperature: -40°C to +140°C
3. Refrigerant Media: HFC, HCFC, HFO and other New range of Refrigerants or similar Mineral Oil

Product installed in Refrigeration System

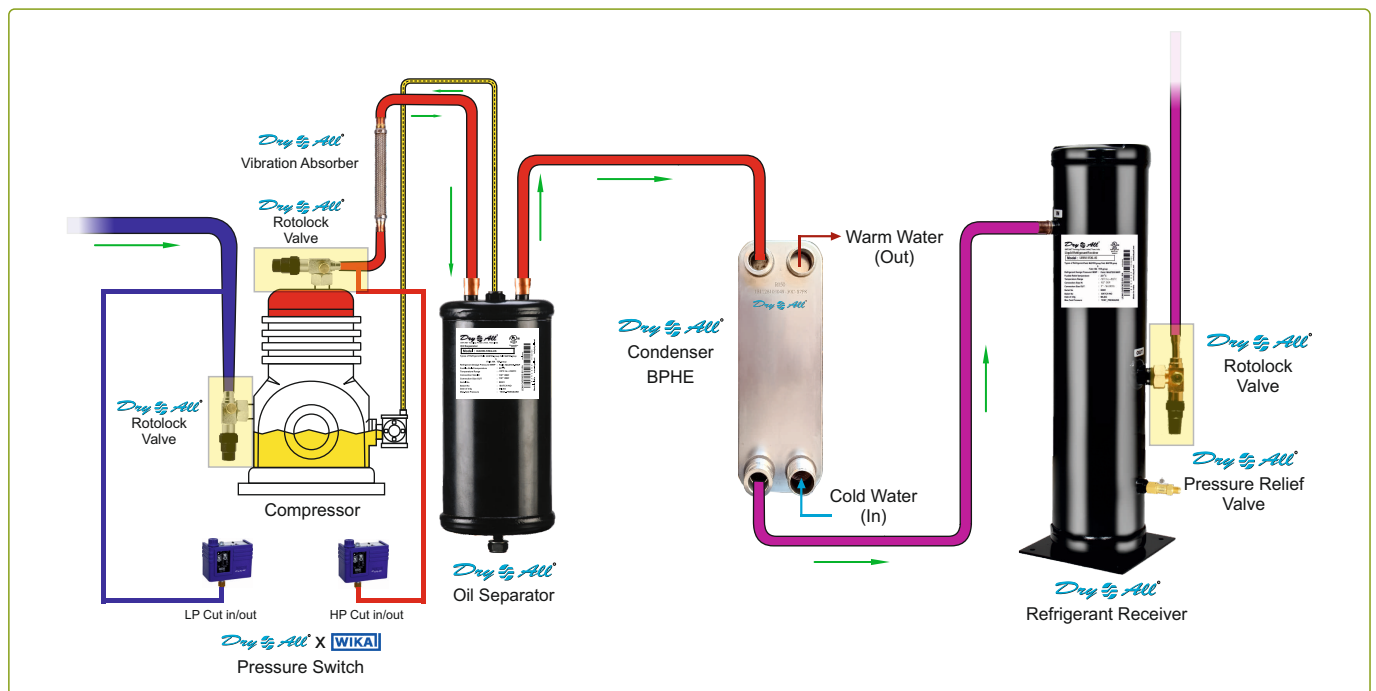
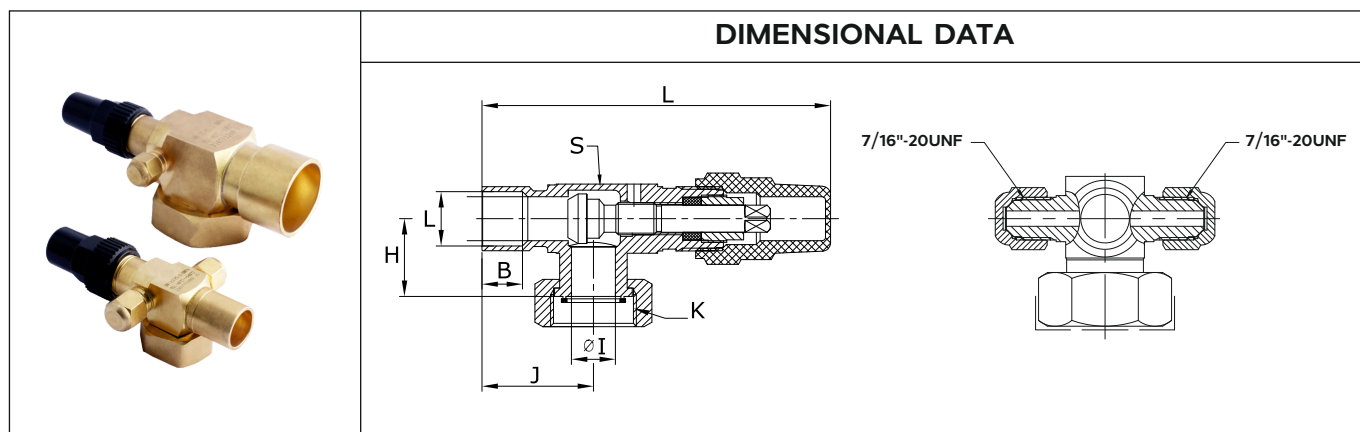


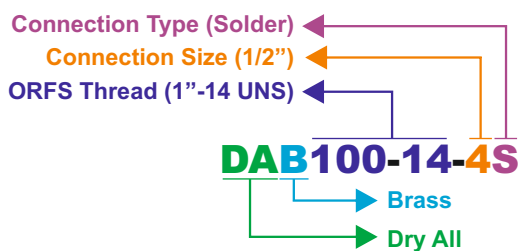
Image & Dimensional Data



Connection & Dimensional Table

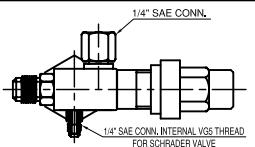
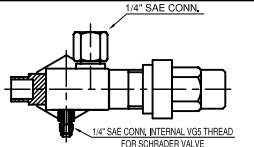
S/N	Model No.	Thread Connection (K)	Solder Connection (I)	B (mm)	I (mm)	H (mm)	J (mm)	L (mm)	Square (mm)
1	DAB-034-16-2S	3/4"- 16UNF	1/4"	8	8	20	29	99	22
2	DAB-034-16-3S		3/8"	10	8	20	31	101	
3	DAB-100-14-2S	1" - 14 UNS	1/4"	8	12	18.5	29	99	
4	DAB-100-14-3S		1/4"	10	12	18.5	31	101	
5	DAB-100-14-4S		1/2"						
6	DAB-100-14-5S		5/8"	12	12	18.5	33	103	
7	DAB-114-12-4S	1-1/4" - 12UNF	1/2"	10	12	20.5	31	101	
8	DAB-114-12-5S		5/8"	12	12	20.5	33	103	
9	DAB-114-12-6S		3/4"	18	12	20.5	39	109	
10	DAB-114-12-7S		7/8"	18	18	24.5	43.5	120	
11	DAB-114-12-9S		1-1/8"	20	18	24.5	48	124.5	
12	DAB-134-12-6S	1-3/4"- 12UNF	3/4"	18	18	24.5	43.5	120	30
13	DAB-134-12-7S		7/8"	18	18	24.5	43.5	120	
14	DAB-134-12-9S		1-1/8"	20	18	24.5	54.5	131	36
15	DAB-134-12-11S		1-3/8"	20	25	27.5	54.5	146.5	
16	DAB-134-12-13S		1-5/8"	25	25	27.5	61	153	
17	DAB-214-12-13S	2-1/4"-12UN	1-5/8"	25	36	38.2	63.5	163.5	50
18	DAB-214-12-13S	2-1/4"-12UN	2-1/8"	25	36	38.2	71	171	

Nomenclature



Rotolock Valves

Dry All
Full Range of HVAC&R Line Products

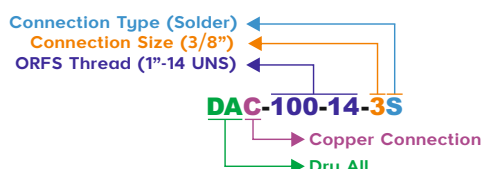
	DIMENSIONAL DATA	
	SAE Connection	ODS Connection
		

S/N	Model No.	ORFS Thread	Connection size	C		D		E	
		A	B	mm	inch	mm	inch	mm	inch
1	DA-100-14-3F	1"-14 UNS	3/8" SAE	103	4.06	19	0.75	31	1.22
2	DA-100-14-3S		3/8" ODF	97	3.82	19	0.75	25	0.98
3	DAC-100-14-3S		3/8" ODF(COPPER)	115	4.53	19	0.75	37	1.45
4	DA-100-14-4F		1/2" SAE	104.5	4.11	19	0.75	33	1.30
5	DA-100-14-4S		1/2" ODF	102	4.02	19	0.75	30	1.18
6	DAC-100-14-4S		1/2" ODF(COPPER)	116	4.57	19	0.75	30	1.18
7	DA-100-14-5F		5/8" SAE	114	4.49	20	0.79	37.5	1.48
8	DA-100-14-5S		5/8" ODF	101	3.98	19	0.75	29	1.14
9	DAC-100-14-5S		5/8" ODF(COPPER)	116	4.57	19	0.75	39	1.54
10	DA-100-14-7S		7/8" ODF	129	5.08	19	0.75	40	1.57
11	DA-114-12-5S	1-1/4"-12 UNF	5/8" ODF	130	5.12	26.7	1.05	40.5	1.59
12	DA-114-12-6S		3/4" ODF	130	5.12	26.7	1.05	40.5	1.59
13	DA-114-12-7S		7/8" ODF	130	5.12	26.7	1.05	40.5	1.59
14	DA-114-12-9S		1-1/8" ODF	138	5.43	26.7	1.05	47	1.85
15	DA-134-12-6S	1-3/4"-12 UN	3/4" ODF	130	5.12	27.5	1.08	40.5	1.59
16	DA-134-12-7S		7/8" ODF	130	5.12	27.5	1.08	40.5	1.59
17	DA-134-12-9S		1-1/8" ODF	149	5.53	27.5	1.08	50.5	1.99
18	DA-134-12-11S		1-3/8" ODF	175	6.89	31.5	1.24	56	2.20
19	DA-214-12-11S	2-1/4"-12 UN	1-3/8" ODF	185	7.28	41.5	1.63	74.5	2.93
20	DA-214-12-13S		1-5/8" ODF	197	7.76	41.5	1.63	74.5	2.93
21	DA-214-12-17S		2-1/8" ODF	211	8.3	41.5	1.63	78.5	3.09

OEM Replacement Rotolock Valve			
OEM	OEM P/N	Dry All Model No	
DANFOSS COMPRESSORS	MT(Z)032-040 & 028-1 & LT(Z)022-028 & NTZ048-068	DA-144-12-5S	Cross Reference
		DA-100-14-4S	
	MT(Z)018-028 (except 022 & 028 code1)	DA-100-14-4S	
		DA-100-14-3S	
	MT(Z)044-072 & LT(Z)040-044 & NTZ096-108	DA-134-12-7S	
		DA-114-12-6S	
	MFZ166, LFZ166	DA-134-12-9S	
		DA-114-12-6S	
	MFZ250, LFZ250, SM/SZ175, SM/SZ185 & SM110,112,120,124,147,148,161 & SZ110,120,148,161	DA-214-12-11S	
		DA-134-12-7S	
		DA-134-12-9S	
		DA-114-12-6S	
	MT(Z)080-160 & LT(Z)050-100 & NTZ136-271 (MFZ166, LFZ166), SM/SZ084, 090, 100	DA-214-12-11S/13S	
		DA-134-12-7S/9S	
	SM/SY/SZ160, 175, 185, 240, 300 & SH180, 240, 295, 300, 380		

OEM Replacement Rotolock Valve			
OEM	OEM P/N	Dry All Model No	
EMERSON COMPRESSORS	ZR190KCE-TFD-523 (ZR-19)	DA-134-12-11S	Cross Reference
		DA-114-12-7S	
	KCG SERIES 554, 562, 572	DA-100-14-5S	
		DA-114-12-7S	
	ZR144KCE-TFD-523, ZR-12 & ZR160KCE-TFD-523 (ZR-16)	DA-114-12-7S	
		DA-134-12-11S	
	ZR-90, ZR94KCE-TFD-523, ZR108KCE-TFD-523, ZR125KCE-TFD-523	DA-134-12-9S	
		DA-114-12-6S	
		DA-134-12-11S	
	ZR-11	DA-114-12-6S	
		DA-214-12-13S	
	ZR250KCE-TWD-523	DA-134-12-11S	

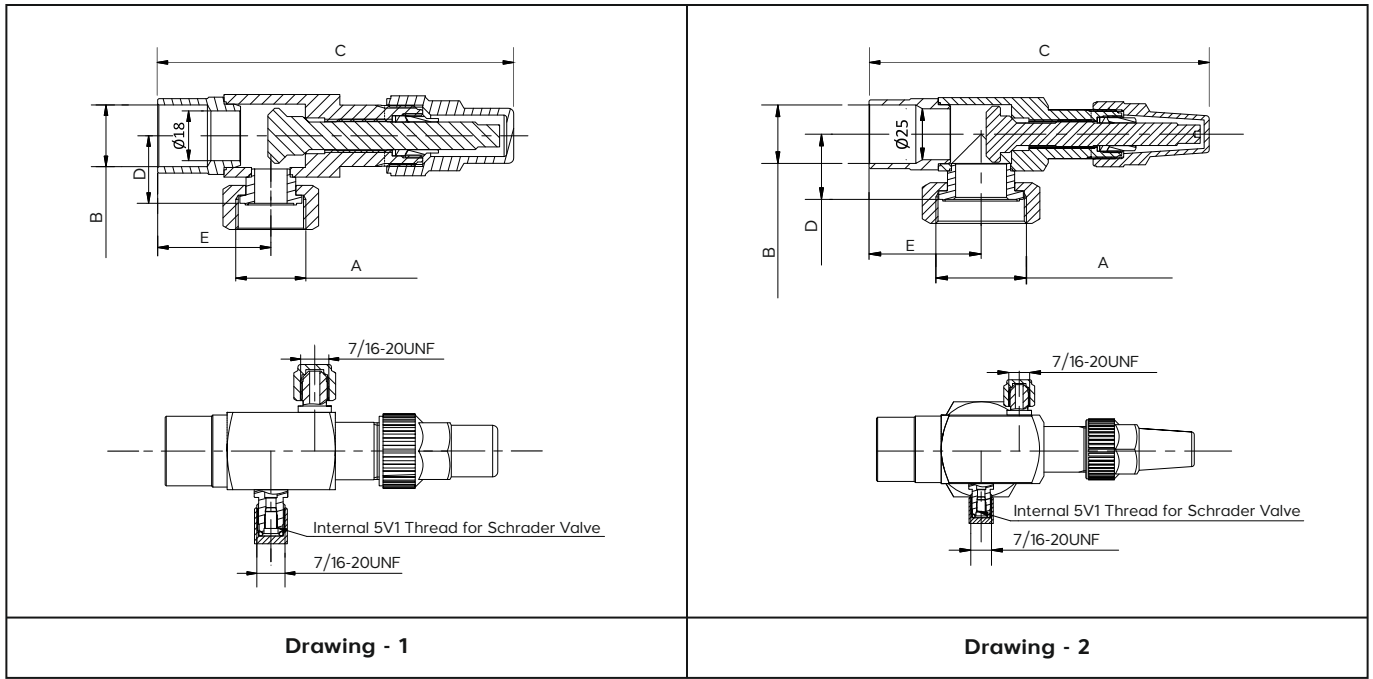
Nomenclature



Rotolock Valves (Big Body Valves)

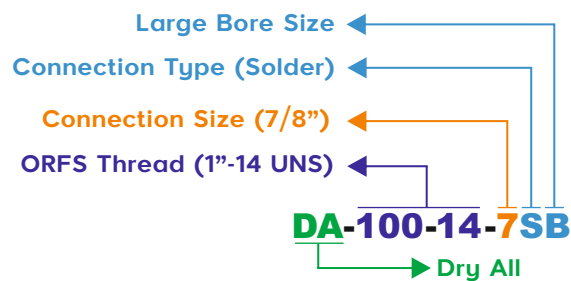
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Full Range of HVAC&R Line Products

Drawing & Dimensional Data

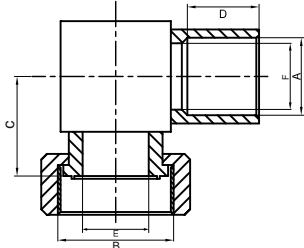
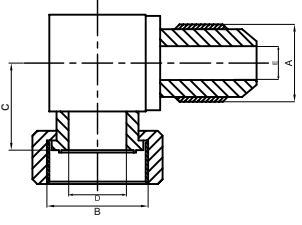


Sr. No	Model No.	ORFS Thread	Connection Size	C		D		E		Refer Drawing No.
		A	B	mm	Inch	mm	Inch	mm	Inch	
1	DA-100-14-7SB	1"-14 UNS	7/8" ODF	129	5.1	24.5	0.97	41	1.62	1
2	DA-134-12-9SB	1-3/4"-12UN	1-1/8" ODF	194	7.7	25.6	1.01	44	1.73	2

Nomenclature



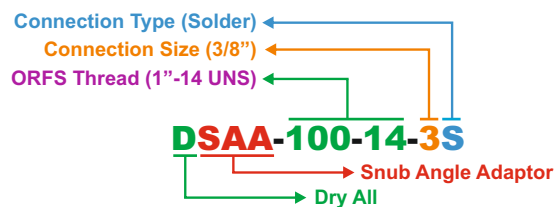
Snub Adaptors

ODF CONNECTION		SAE CONNECTION	
	DIMENSIONAL DATA		DIMENSIONAL DATA
			

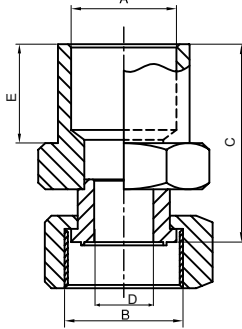
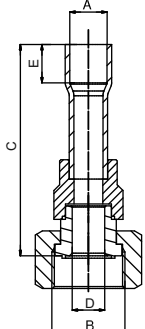
S/N	Model No.	Connection size (SAE)	ORFS Thread	C		D		E	
		A	B	mm	inch	mm	inch	mm	inch
1	DSAA-34-16F-2F	1/4"	3/4"-16UNF	19	0.75	8	0.31	4.5	0.18
2	DSAA-34-16F-3F	3/8"		19	0.75	8	0.31	8	0.31
3	DSAA-34-16F-4F	1/2"		19	0.75	8	0.31	10	0.39
4	DSAA-100-14S-3F	3/8"	1"-14 UNS	19	0.75	12	0.47	8	0.31
5	DSAA-100-14S-4F	1/2"		19	0.75	12	0.47	10	0.39
6	DSAA-100-14S-5F	5/8"		20	0.79	12	0.47	13	0.51
7	DSAA-100-14S-6F	3/4"	1-1/4" - 12 UNF	20	0.79	12	0.47	16	0.63
8	DSAA-114-12F-6F	3/4"		26.7	1.05	18	0.71	16	0.63

S/N	Model No.	Connection Size (ODF)	ORFS Thread	C		D		E		F	
			B	mm	inch	mm	inch	mm	inch	mm	inch
1	DSAA-34-16F-2S	1/4"	3/4"-16UNF	19	0.75	8	0.31	8	0.31	5	0.20
2	DSAA-34-16F-2.5S	5/16"		19	0.75	8	0.31	8	0.31	7	0.28
3	DSAA-34-16F-3S	3/8"		19	0.75	8	0.31	8	0.31	8	0.31
4	DSAA-100-14S-3S	3/8"	1"-14 UNS	19	0.75	8	0.31	12	0.47	8	0.31
5	DSAA-100-14S-4S	1/2"		19	0.75	8	0.31	12	0.47	10	0.39
6	DSAA-100-14S-5S	5/8"		20	0.79	15	0.59	13	0.51	13	0.51
7	DSAA-100-14S-6S	3/4"	1-1/4"-12 UNF	19	0.75	15	0.59	13	0.51	13	0.51
8	DSAA-114-12F-5S	5/8"		26.7	1.05	15	0.59	18	0.71	14	0.55
9	DSAA-114-12F-6S	3/4"		26.7	1.05	16	0.63	18	0.71	16	0.63
10	DSAA-114-12F-7S	7/8"	1-3/4"-12 UN	26.7	1.05	20	0.79	18	0.71	18	0.71
11	DSAA-114-12F-9S	1-1/8"		26.7	1.05	20	0.79	18	0.71	18	0.71
12	DSAA-114-12F-11S	1-3/8"		27.5	1.08	20	0.79	18	0.71	18	0.71
13	DSAA-114-12F-13S	1-5/8"	1-3/4"-12 UN	27.5	1.08	20	0.79	18	0.71	18	0.71
14	DSAA-134-12-6S	3/4"		27.5	1.08	20	0.79	19	0.75	16	0.63
15	DSAA-134-12-7S	7/8"		27.5	1.08	20	0.79	19	0.75	18	0.71
16	DSAA-134-12-9S	1-1/8"	1-3/4"-12 UN	27.5	1.08	20	0.79	19	0.75	18	0.71
17	DSAA-134-12-11S	1-3/8"		30.7	1.21	22	0.87	27	1.06	26	1.02
18	DSAA-134-12-13S	1-5/8"		30.7	1.21	25	0.98	27	1.06	26	1.02

Nomenclature



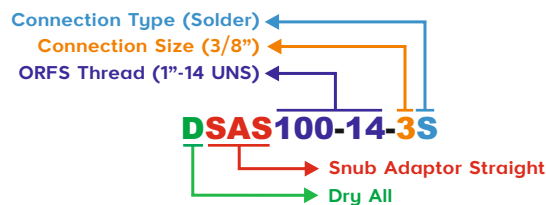
Snub Adaptor

ODF CONNECTION		DIMENSIONAL DATA	
			
with Steel Connection	with Copper Connection	with Steel Connection	with Copper Connection

S/N	Model No.	Connection size ODF	ORFS Thread	C		D		E	
		A	B	mm	inch	mm	inch	mm	inch
1	DSAS34-16F-2S	1/4"	3/4"-16UNF	30	1.18	8	0.31	8	0.31
2	*DSAS34-16F-3S	3/8"		55	2.16	8.5	0.33	10	0.39
3	DSAS34-16F-4S	1/2"		30	1.18	8	0.31	10	0.39
4	*DSAS34-16F-4S	1/2"		57	2.25	8.5	0.33	12	0.48
5	DSAS100-14S-3S	3/8"	1"-14 UNS	30	1.18	12	0.47	10	0.39
6	DSAS100-14S-4S	1/2"		35	1.38	12	0.47	10	0.39
7	DSAS100-14S-5S	5/8"		35	1.38	12	0.47	16	0.63
8	DSAS100-14S-6S	3/4"		35	1.38	12	0.47	16	0.63
9	DSAS114-12F-5S	5/8"	1-1/4"-12UNF	37.7	1.48	18	0.71	16	0.63
10	DSAS114-12F-6S	3/4"		37.7	1.48	18	0.71	16	0.63
11	DSAS114-12F-7S	7/8"		43.7	1.72	18	0.71	20	0.79
12	DSAS114-12F-9S	1-1/8"		50.7	2.00	18	0.71	20	0.79
13	DSAS134-12-6S	3/4"	1-3/4"-12UN	50.7	2.00	19	0.75	20	0.79
14	DSAS134-12-7S	7/8"		45.5	1.79	19	0.75	20	0.79
15	DSAS134-12-9S	1-1/8"		55.2	2.17	19	0.75	20	0.79
16	DSAS134-12-11S	1-3/8"		55.2	2.17	19	0.75	20	0.79
17	DSAS134-12-13S	1-5/8"		57.7	2.27	19	0.75	20	0.79

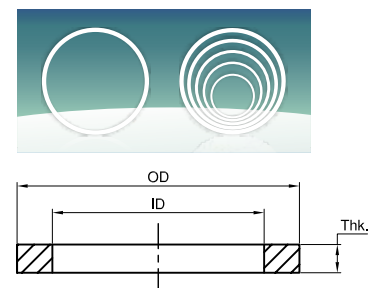
Note: [*] Denotes connections are of Copper.

Nomenclature



Gasket

S.N	TEFLON ORING	ORFS SIZE	ID		OD		THK	
			mm	Inch	mm	Inch	mm	Inch
1	DOR - A	3/4"	11.1	0.44	14.3	0.56	1.5	0.06
2	DOR - B	1"	15.7	0.62	19.1	0.75	1.5	0.06
3	DOR - C	1-1/4"	22	0.87	25.4	1.00	1.5	0.06
4	DOR - D	1-3/4"	34.7	1.37	38.1	1.50	1.5	0.06
5	DOR - E	2-1/4"	47	1.85	51	2.01	1.8	0.07

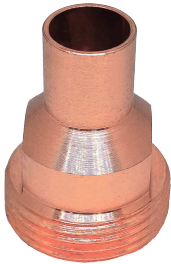
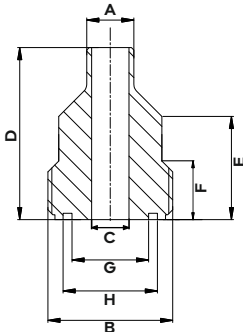


Stub Adaptor

Key Features

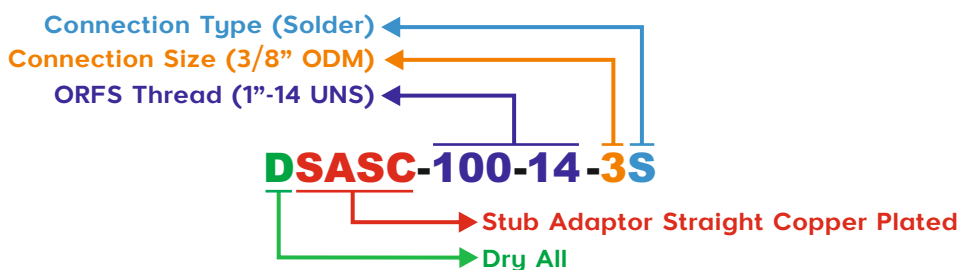
- High mechanical strength
- Smooth surface finish
- Leak Proof Connections
- Wide range of sizes available

Drawing & Models Available

ODM CONNECTION	DIMENSIONAL DATA
	

S/N	Model No.	Connection Size ODM		ORFS Thread	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
		A		B (mm)						
		(inch)	(mm)							
1	DSASC-100-14-3S	3/8"	Ø9.6	1"-14UNS	Ø7.6	35	21	12	Ø15.6	Ø19.1
2	DSASC-100-14-4S	1/2"	Ø12.7	1"-14UNS	Ø10.7	35	21	12	Ø15.6	Ø19.1
3	DSASC-114-12-5S	5/8"	Ø15.9	1-1/4"-12UNF	Ø13.9	42.5	21	12	Ø21.8	Ø25.4
4	DSASC-114-12-6S	3/4"	Ø19.1	1-1/4"-12UNF	Ø17	42.5	21	12	Ø21.8	Ø25.4
5	DSASC-114-12-7S	7/8"	Ø22.3	1-1/4"-12UNF	Ø20	42.5	21	12	Ø21.8	Ø25.4
6	DSASC-134-12-9S	1-1/8"	Ø28.6	1-3/4"-12UN	Ø25	41	19	10	Ø34.4	Ø38.15
7	DSASC-134-12-11S	1-3/8"	Ø35	1-3/4"-12UN	Ø32	41	19.5	11	Ø34.4	Ø38.15
8	DSASC-214-12-13S	1-5/8"	Ø41.3	2-1/4"-12UN	Ø38	44.5	23	14	Ø47	Ø50.8
9	DSASC-214-12-17S	2-1/8"	Ø54	2-1/4"-12UN	Ø43	44.5	23	13	Ø47	Ø50.8

Nomenclature



Technical Specification

- Max. working Pressure: 45 bar
- Temperature Range: -40°C to +150°C
- Suitable Medium: R22, R502, R507, R407C, R404A, R134a, R410A, etc. refrigerants and other Refrigeration oils

**Check Hologram for
Genuine Product**

Manufactured by:



Full Range of HVAC&R Line Products

SAFE A&T Technology Private Limited

D-4, MIDC, Phase II, Dombivali (E),
Dist. Thane-421 201.

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File No.: L/S&M/01

REV24-06-01-00