



Introduction

Dry All Ball valve is a two-way valve that is operated manually to open or close the flow of refrigerant. These are expertly crafted manual shut-off valves designed to facilitate bi-directional flow. It incorporates single turn on/off mechanisms to ensure that it is fully open or closed. The unique featured steel ball mechanism allows 100% opening or closure.

The construction of valve includes brazed connections and hermetically welded joints to guarantee a sturdy yet lightweight, slim-line body design. Meticulous attention to design, weld quality, and the selection of premium sealing materials empowers these ball valves to surpass even the most stringent demands, such as high working pressures while handling R410A refrigerant.

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Dry All Ball valves serve as manually operated shut-off valves that efficiently handle bi-directional flow in refrigeration, freezing, and air conditioning systems. Their versatility allows them to be utilized in liquid, suction, and hot gas lines. Specifically, the bidirectional ball valves offer the option of being delivered with or without an external access port. To enhance safety and prevent any inadvertent cap removal or tampering during service intervals, these valves have vent hole which permits a safe discharge of the refrigerant present under the cap. This feature ensures the integrity of the valve's functionality and maintenance procedures.

Based on years of experience in manufacturing a full range of HVAC&R line products, Dry All adeptly applies its knowledge to a variety of products.

Key Features







Application	Advantages
• Dry All Ball valves are used in hot gas, liquid and suction lines in all refrigeration and air conditioning systems with fluorinated refrigerants.	 Full flow with minimum pressure drop. Bi-directional flow, i.e. valve orientation is unimportant. Slimline design ensures easy operational handling. Burst proof spindle design prevents liquid from being trapped internally. Valve seat of special Teflon to secure maximum tightness and a long lifetime. The available access port saves money if service of the system is necessary.

Technical Properties

- Ball valves can be used for all fluorinated refrigerants such as CFC, HCFC, HFC, HFO & HC refrigerants and oils.
- Temperature range: -40°C to +150°C.
- Max. Working pressure (PS/MWP): 45bar (650 psig).
- Test pressure: 67.5bar (970 psig).
- Body Material: Forged brass (EN 12420, EN12165, and CW617N).
- Tube Material: Copper (EN12735-1).
- Leak rate is less than 2.8g/year.
- Approvals: UL and RoHS.





Image & Technical Data



Available Models (without Schrader Valve)

e / 11	End		A		В		с		D		E		F	
5/N	Model No	Connection	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	
1	DABV-02S	1/4" ODF	134	5.27	73	2.87	Ø6.4	02.5	8	0.31	49.5	1.94	Ø4.5x6x2 SLOT	
2	DABV-03S	3/8" ODF	134	5.27	73	2.87	Ø9.6	0.37	8	0.31	49.5	1.94	Ø4.5x6x2 SLOT	
3	DABV-04S	1/2" ODF	156	6.14	84	3.30	Ø12.8	0.5	11.5	0.45	49.5	1.94	Ø4.5x6x2 SLOT	
4	DABV-05S	5/8" ODF	156	6.14	84	3.30	Ø15.95	0.62	13	0.51	49.5	1.94	Ø4.5x6x2 SLOT	
5	DABV-06S	3/4" ODF	166	6.53	91.3	3.59	Ø19.1	0.75	16	0.62	70	2.75	Ø4.5x6x2 SLOT	
6	DABV-07S	7/8" ODF	184	7.24	100.3	3.94	Ø22.3	0.87	20	0.78	70	2.75	Ø4.5x6x2 SLOT	
7	DABV-09S	1"-1/8 ODF	204	8.03	113	4.44	Ø28.7	1.12	23	0.90	69	2.71	Ø4.5x6x2 SLOT	



Image & Technical Data



Available Models (with Schrader Valve)

C /N	Medal No	End	A		в		с		D		E		F	G	
5/11	Model No	Connection	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	mm	Inch
1	DABVSV-02S	1/4" ODF	134	5.27	73	2.87	Ø6.4	0.25	8	0.31	49.5	1.94	Ø4.5x6x2 SLOT	26	1.02
2	DABVSV-03S	3/8" ODF	134	5.27	73	2.87	Ø9.6	0.37	8	0.31	49.5	1.94	Ø4.5x6x2 SLOT	26	1.02
3	DABVSV-04S	1/2" ODF	156	6.14	84	3.30	Ø12.8	0.5	11.5	0.45	49.5	1.94	Ø4.5x6x2 SLOT	32	1.25
4	DABVSV-05S	5/8" ODF	156	6.14	84	3.30	Ø15.95	0.62	13	0.51	49.5	1.94	Ø4.5x6x2 SLOT	34	1.33
5	DABVSV-06S	3/4" ODF	166	5.53	91.3	3.59	Ø19.1	0.75	16	0.62	70	2.75	Ø4.5x6x2 SLOT	37	1.45
6	DABVSV-07S	7/8" ODF	184	7.24	100.3	3.94	Ø22.3	0.87	20	0.78	70	2.75	Ø4.5x6x2 SLOT	42	1.65
7	DABVSV-09S	1"-1/8 ODF	204	8.03	113	4.44	Ø28.7	1.12	23	0.90	69	2.71	Ø4.5x6x2 SLOT	45	1.77
8	DABVSV-11S	1"-3/8 ODF	244	9.6	133	5.23	Ø35.1	1.38	25.8	0.01	86	3.38	Ø6.5x10x2 SLOT	55	2.16
9	DABVSV-13S	1"-5/8 ODF	258	10.15	141	5.55	Ø42.1	1.65	28	1.10	91	2.58	Ø6.5x10x2 SLOT	55	2.16
10	DABVSV-17S	2"-1/8 ODF	303	11.92	154	6.06	Ø54.1	2.12	35	1.37	106	4.17	Ø6.5x10x2 SLOT	65	2.55
11	DABVSV-21S	2"-5/8 ODF	302.5	11.90	154	6.06	Ø67.1	2.64	34	1.33	106	4.17	Ø6.5x10x2 SLOT	72	2.55

Nomenclature







Flow Condition



Installation Guideline



















5





Installation Guideline Continued











After brazing one side, allow it cool. Pour cold water on to the cloth to cool it further. Then apply the above listed steps again for the other side.



Tighten the cap for sealing, with the torque written on it. Please check if the gasket is properly placed in the cap.



Ball valve Connection	Mating Part	Recommended Harries Make Brazing Alloy or Equivalent.					
Copper	Copper	Most common used is Harris-O. For higher Vibration joints you may use Harries - Stay- Silve 2 / Stay-Sliv 15 / Dynaflow.					
Copper Steel		Stay-Silv 25					
15 Use Brazing Flux as required							







Quality in everything we do

Dry All Ball valves are integral to comprehensive line of refrigeration components, encompassing a wide array of high-tech products. Each component undergoes rigorous testing, adhering to the most stringent standards to ensure top-notch quality.

If the specific component you seek is not listed in this brochure or if you have unique requirements, rest assured that Dryall's partner wholesalers and our local team are here to assist you. They are dedicated to providing guidance and support, going above and beyond to meet your individual needs.

Related products



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