



Ball valves for refrigerants

IGLOO ball valves are bi-directional shut-off valves for refrigerants, manually operated, suitable for liquid, suction and hot-gas line in refrigeration and air-conditioning systems.

All the valves are equipped with one-piece wire seal cap and a rear mounting bracket.

Optionally for all the models is available an external access port.

Direct flow gives maximum through-flow with minimum pressure drop across the valve.

The combination of welded valve body, ball seat/seal made of Teflon®, double spindle o-ring seal and cap seal gives absolute tightness against leakage.

Features

- Broad range of temperature: from -40°C (-40°F) to +150°C (+300°F)
- 1/4 turn from fully open to fully closed position
 - Mechanical stop to rotation
 - Open/close status indication on the valve body
- All sizes are full port
 - Higher flow rate, lower pressure drop
- Bi-directional flow
 - Can be mounted in any position
- Available external access port for service to the system
- One-piece wire seal cap as required by European Safety and Environmental Directive EN 378
- Hermetic welded design
- All the valves manufactured are singly leak tested and pressure tested
 - Pressure test at 70bar
 - Leak test with helium in a high vacuum chambre according to EN 1779.B6
- Balls have a pressure equalization hole
 - Prevents trapped pressure in valve body cavity
- Burst-proof spindle mounted from the inside
- Supplied with mounting brackets for panel fixing as standard
- Selected technical rubbers and Teflon® compounds for internal sealing elements

Ball valves for refrigerants

Approvals

CE (PED, RoHS, REACH), EAC

Technical data

Suitable for HCFC, HFC and R744 (CO₂) refrigerants. Not suitable for ammonia.

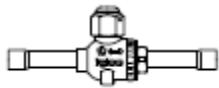
BSS series	without access port	-40 ÷ +150 °C	45bar
BSA series	with access port	-40 ÷ +300 °F	650psig

Supply

IGLOO ball valves have holes for panel mounting and mounting brackets into each box. The valves are singly packaged into carton boxes, with annex fitting instructions and CE certificate of conformity.

Ordering

BSS series, standard



Part number	ODF Connections (aka ODS)		Orifice	Kv (m3/h)	PED 2014/68/EU
	mm	inch	Ø S (mm)	UNI 9182:2010	Risk Category
BSS-M6	O.D. 6mm	-	10	1,2	Art.4 Par.3
BSS-4	-	O.D. 1/4"	10	1,2	
BSS-5	O.D. 8mm	O.D. 5/16"	10	1,2	
BSS-6	-	O.D. 3/8"	10	3,5	
BSS-M10	O.D. 10mm	-	10	3,5	
BSS-M12	O.D. 12mm	-	10	6,6	
BSS-8	-	O.D. 1/2"	10	6,6	
BSS-M15	O.D. 15mm	-	13	15	
BSS-10	O.D. 16mm	O.D. 5/8"	13	15	
BSS-M18	O.D. 18mm	-	16	20	
BSS-12	O.D. 19mm	O.D. 3/4"	16	20	
BSS-14	O.D. 22mm	O.D. 7/8"	19	24	
BSS-M28	O.D. 28mm	-	25	42	
BSS-18	-	O.D. 1.1/8"	25	42	
BSS-22	O.D. 35mm	O.D. 1.3/8"	32	65	I
BSS-26	-	O.D. 1.5/8"	40	110	
BSS-M42	O.D. 42mm	-	40	110	
BSS-34	O.D. 54mm	O.D. 2.1/8"	50	190	
BSS-M64	O.D. 64mm	-	65	300	
BSS-42	-	O.D. 2.5/8"	65	300	
BSS-48	O.D. 76mm	O.D. 3"	65	300	
BSS-50	O.D. 80mm	O.D. 3.1/8"	65	300	

Ball valves with access port

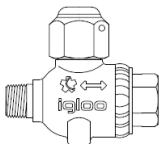
Ordering (continued)

BSA series, with access port



Part number	ODF Connections (aka ODS)		Orifice	Kv (m3/h)	PED 2014/68/EU
	mm	inch	Ø S (mm)	UNI 9182:2010	Risk Category
BSA-M6	O.D. 6mm	-	10	1,2	Art.4 Par.3
BSA-4	-	O.D. 1/4"	10	1,2	
BSA-5	O.D. 8mm	O.D. 5/16"	10	1,2	
BSA-6	-	O.D. 3/8"	10	3,5	
BSA-M10	O.D. 10mm	-	10	3,5	
BSA-M12	O.D. 12mm	-	10	6,6	
BSA-8	-	O.D. 1/2"	10	6,6	
BSA-M15	O.D. 15mm	-	13	15	
BSA-10	O.D. 16mm	O.D. 5/8"	13	15	
BSA-M18	O.D. 18mm	-	16	20	
BSA-12	O.D. 19mm	O.D. 3/4"	16	20	
BSA-14	O.D. 22mm	O.D. 7/8"	19	24	
BSA-M28	O.D. 28mm	-	25	42	
BSA-18	-	O.D. 1.1/8"	25	42	
BSA-22	O.D. 35mm	O.D. 1.3/8"	32	65	
BSA-26	-	O.D. 1.5/8"	40	110	
BSA-M42	O.D. 42mm	-	40	110	
BSA-34	O.D. 54mm	O.D. 2.1/8"	50	190	
BSA-M64	O.D. 64mm	-	65	300	
BSA-42	-	O.D. 2.5/8"	65	300	
BSA-48	O.D. 76mm	O.D. 3"	65	300	
BSA-50	O.D. 80mm	O.D. 3.1/8"	65	300	

BSN series. Lead-sealed with NPT male-to-female threads for safety valves.



Part number	NPT Connection Thread ANSI B1.20.1		Orifice	Kv (m3/h)	PED 2014/68/EU
	ext thread (male)	int thread (female)	Ø S (mm)	UNI 9182:2010	Risk Category
BSN-8	NPT 1/2"	NPT 1/2"	16	20	Art.4 Par.3
BSN-12	NPT 1/2"	NPT 1/2"	19	24	
BSN-16	NPT 1"	NPT 1"	25	42	