

PACKLESS VALVES

Packless valves are so called due to the absence of a packed gland for stem sealing. Instead, metal diaphragms are used to isolate the stem from the fluid area.

The Henry Technologies range includes three versions: 'Golden Bantam', 'Standard' and '2100B & 2111B'.

Applications

Henry Technologies packless valves are used in a variety of air conditioning and refrigeration applications for isolating, flow control, charging and purging purposes.

The valves are suitable for HCFC and HFC refrigerants, along with their associated oils. The 2100B & 2111B series are suitable for HCFC, HFC and CO₂ refrigerants along with their associated oils.

Main features

- Robust design
- Compact
- Heat stabilised nylon seat ring for positive shut-off
- Positive back-seating with valve in open position
- Raised seat reduces debris induced sealing issues
- Large diameter diaphragm for greater lift, better flow and longer life
- Hermetic seal between bonnet, diaphragms and body
- Suitable for vacuum applications

Technical Specification

Allowable working pressure = Vacuum up to 34.5 barg
 Allowable working pressure = Vacuum up to 42 barg (2100B & 2111B)
 Allowable working temperature = -29°C to +135°C



Materials of Construction - Golden Bantam series

The valve body, upper stem and bonnet are made from brass. The lower stem/seat ring is made from nylon and the diaphragm set is composed of both phosphor bronze and stainless steel. The valve spring is made from stainless steel. The hand-wheel is made from moulded plastic.

Materials of Construction - Standard series

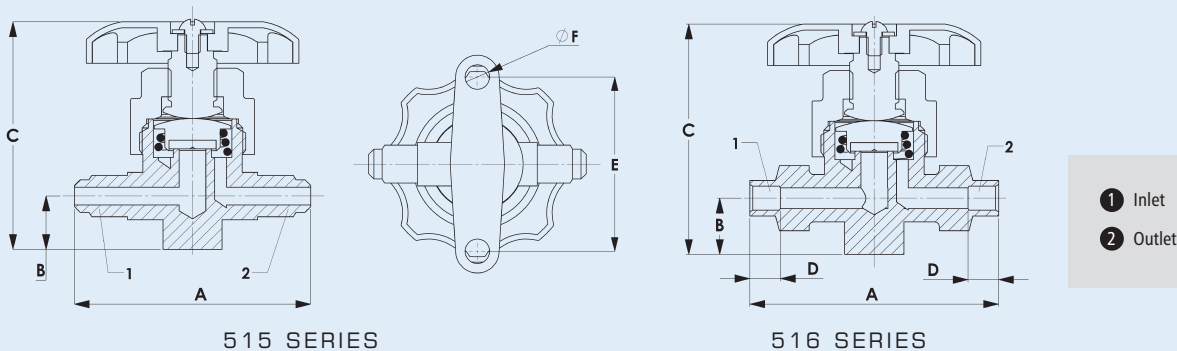
The valve body and bonnet are made from brass. The lower stem is made from brass for all models except the 629 series, where the material is monel.

The upper stem, stem cap and valve springs are made from stainless steel. The seat ring is made from nylon for all models except the 629 series. These models use a stainless steel seat ring. The diaphragm set is composed of both phosphor bronze and stainless steel. The hand-wheel is made from white metal.

Materials of Construction - 2100B & 2111B series

The valve body, upper stem and bonnet are made from brass. The lower stem/seat ring is made from nylon and the diaphragm is made from stainless steel. The valve spring is made from stainless steel. The hand-wheel is made from moulded plastic.

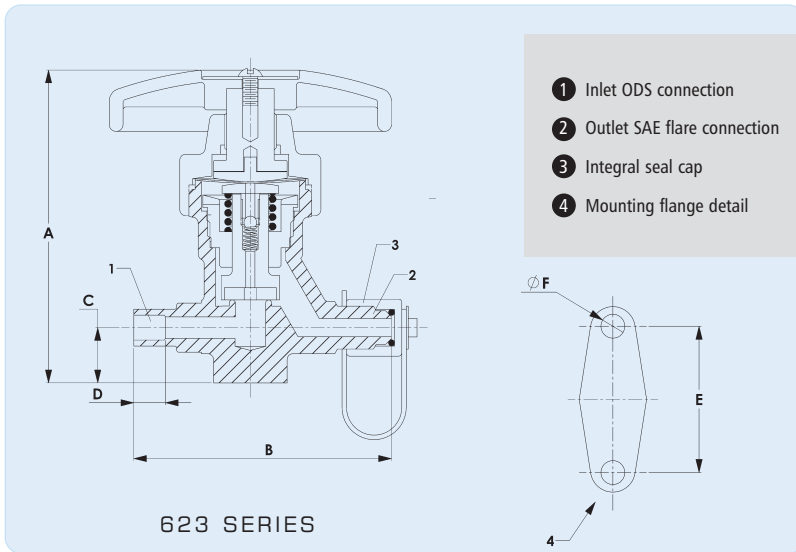
GOLDEN BANTAM SERIES



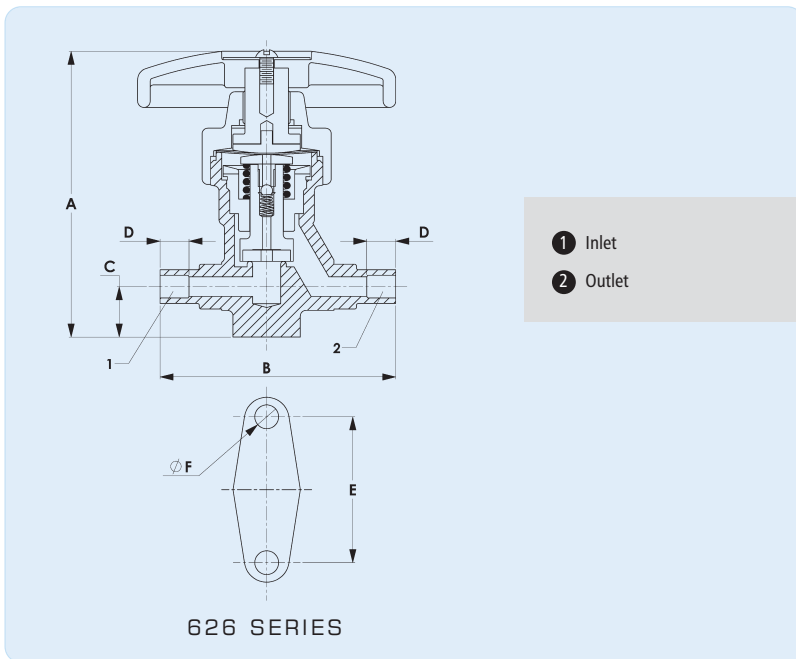
Golden Bantam Valves

TYPE	Part No	Conn Size (inch)	Dimensions (mm)						Weight (kg)	Kv (m ³ /hr)	CE Cat
			A	B	C (Open)	D	E	Ø F			
515	5151	1/4 SAE Flare	64	14	65	N/A	51	7	0.28	0.85	SEP
515	5153	3/8 SAE Flare	67	14	65	N/A	51	7	0.29	1.20	SEP
516	5161	1/4 ODS	67	14	65	8	51	7	0.29	0.85	SEP
516	5163	3/8 ODS	67	14	65	10	51	7	0.29	1.20	SEP

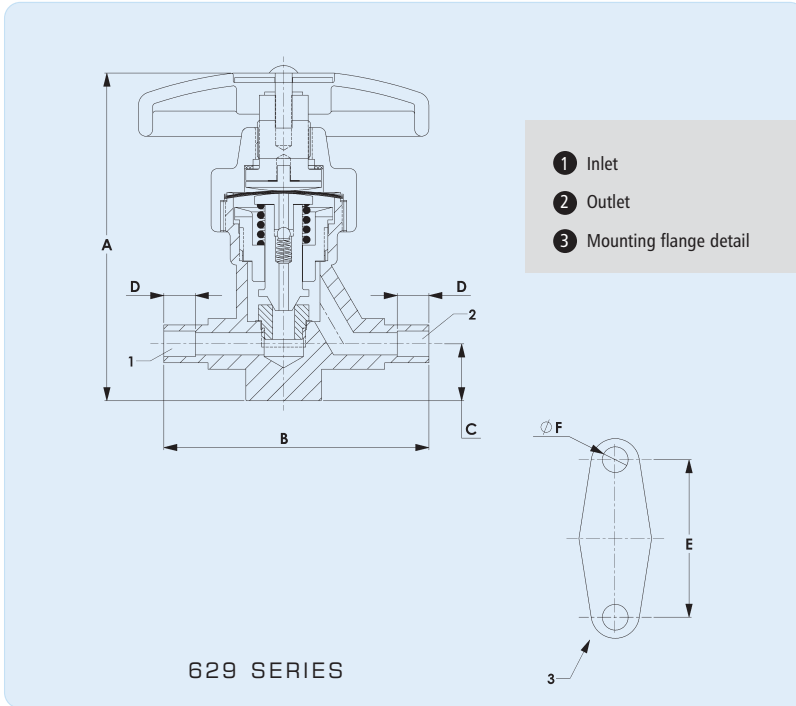
STANDARD SERIES



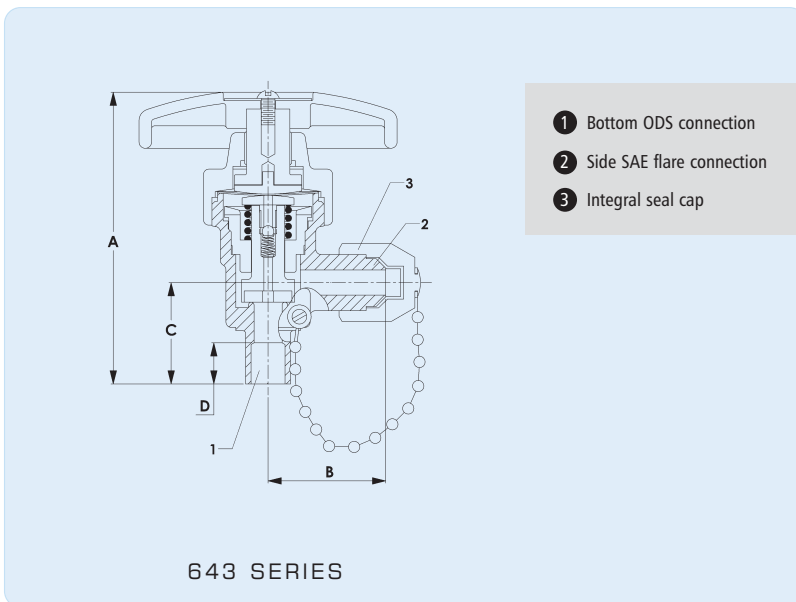
Part No	Conn Size (inch)	Dimensions (mm)						Weight (kg)	CE Cat
		A	B	C	D	E	ØF		
6231N	1/4 ODS x 1/4 SAE Flare	86	67	14	8	41.4	6.9	0.47	SEP
6232N	3/8 ODS x 3/8 SAE Flare	86	67	14	11	41.4	6.9	0.55	SEP
6233N	1/2 ODS x 1/2 SAE Flare	90	83	16	14	44.5	7	0.62	SEP
6234N	5/8 ODS x 5/8 SAE Flare	95	94	19	18	50.8	7	0.65	SEP



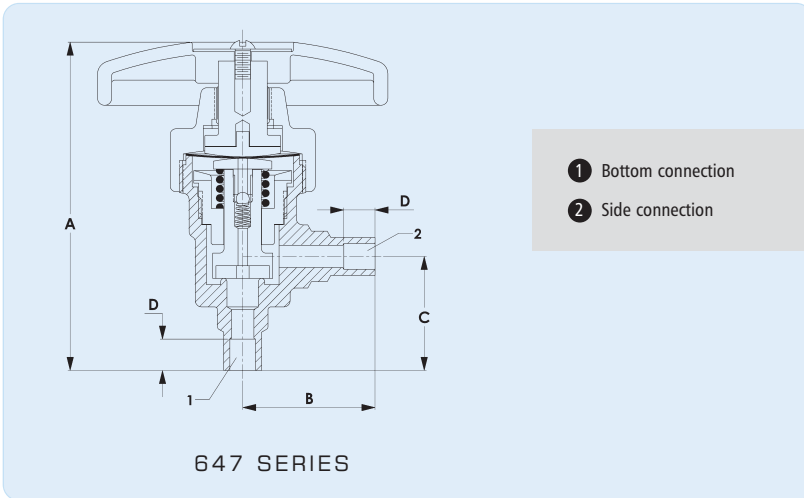
Part No	Conn Size (inch)	Dimensions (mm)						Weight (kg)	CE Cat
		A	B	C	D	E	ØF		
6261N	1/4 ODS	86	67	14	8	41.4	6.9	0.47	SEP
6263N	3/8 ODS	86	67	14	11	41.4	6.9	0.51	SEP
6264N	1/2 ODS	90	80	16	14	44.5	7	0.57	SEP
6265N	5/8 ODS	95	89	19	18	50.8	7	0.65	SEP
6266N	3/4 ODS	127	111	18	19	57.2	8.6	1.42	SEP
6267N	7/8 ODS	137	122	19	22	63.5	10.4	1.6	SEP
6268N	1 1/8 ODS	165	151	24	25	82.6	10.4	2.63	SEP



Part No	Conn Size (inch)	Dimensions (mm)						Weight (kg)	CE Cat
		A	B	C	D	E	ØF		
6291N	1/4 ODS	86	67	14	8	41.4	6.9	0.47	SEP
6293N	3/8 ODS	86	67	14	11	41.4	6.9	0.47	SEP
6294N	1/2 ODS	86	67	14	14	41.4	6.9	0.47	SEP
6295N	5/8 ODS	90	86	16	18	44.5	7	0.58	SEP
6297N	7/8 ODS	127	113	18	19	57.2	8.6	1.25	SEP
6298N	1 1/8 ODS	137	122	19	21	63.5	10.3	1.48	SEP

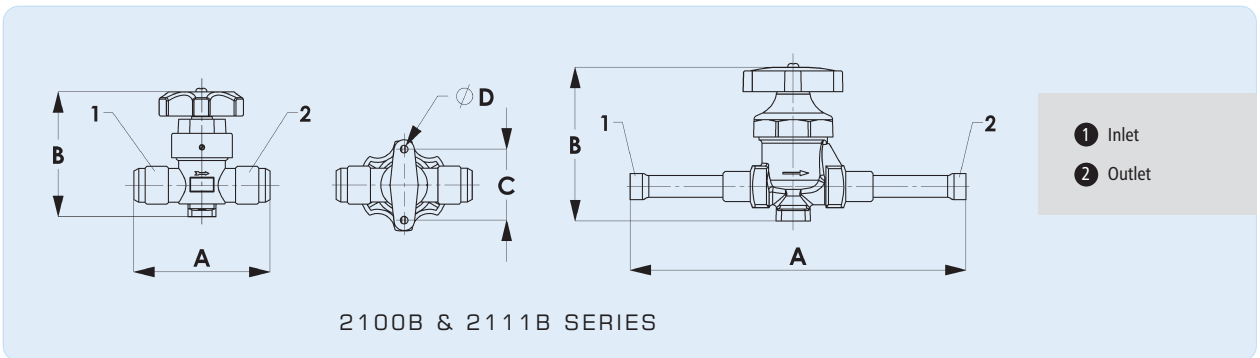


Part No	Conn Size (inch)	Dimensions (mm)				Weight (kg)	CE Cat
		A	B	C	D		
6432N	3/8 ODS X 3/8 SAE Flare	86	33	29	11	0.44	SEP
6433N	1/2 ODS x 1/2 SAE Flare	89	41	30	14	0.6	SEP
6434N	5/8 ODS x 5/8 SAE Flare	97	44	35	18	0.8	SEP



- 1 Bottom connection
- 2 Side connection

Part No	Conn Size (inch)	Dimensions (mm)				Weight (kg)	CE Cat
		A	B	C	D		
6471N	1/4 ODS	87	33	29	8	0.39	SEP
6473N	3/8 ODS	87	33	29	11	0.4	SEP
6474N	1/2 ODS	90	38	30	14	0.5	SEP
6475N	5/8 ODS	97	38	35	18	0.6	SEP
6476N	3/4 ODS	124	48	36	19	1.19	SEP
6477N	7/8 ODS	137	53	45	22	1.34	SEP
6478N	1 1/8 ODS	165	64	57	25	2.01	SEP



- 1 Inlet
- 2 Outlet

Type	Part No	Conn Size (inch)	Dimensions (mm)				Weight (kg)	Kv (m ³ /hr)	CE Cat
			A	B (Closed)	C	D			
2100B	2100B-0404	1/4 SAE Flare	58	60	35	4.5	0.18	0.25	SEP
2100B	2100B-0606	3/8 SAE Flare	70	68	38	4.5	0.30	0.80	SEP
2100B	2100B-0808	1/2 SAE Flare	72	68	38	4.5	0.32	1.50	SEP
2100B	2100B-1010	5/8 SAE Flare	78	68	38	4.5	0.32	2.20	SEP
2100B	2100B-1212	3/4 SAE Flare	95	80	50	4.5	0.80	2.90	SEP
2111B	2111B-0404	1/4 ODS	120	60	35	4.5	0.18	0.25	SEP
2111B	2111B-0606	3/8 ODS	130	68	38	4.5	0.32	0.80	SEP
2111B	2111B-0808	1/2 ODS	138	68	38	4.5	0.35	1.50	SEP
2111B	2111B-1010	5/8 ODS	158	68	38	4.5	0.38	2.20	SEP
2111B	2111B-1212	3/4 ODS	178	80	50	4.5	0.70	2.90	SEP

Additional Information

- For series 623*, 626*, 643* and 647*: Valves are bi-directional up to 24.1 barg. Above this pressure, the direction of flow should be with the inlet under the valve seat.
- For series 629*: For hand expansion or throttling service, the direction of flow should be with the inlet under the valve seat.

Installation – Main Issues

- Valves must be protected against excessive heat when installing to prevent damage to the seals. Full instructions are given in the Product Instruction Sheet, included with each valve.