

When Looking for Aseptic Solutions

Aseptic Diaphragm Valves - Complete Range

Alfa Laval offers an extensive range of aseptic diaphragm valves for ultra-hygienic processes. The modular design of the valves ensures a wide flexibility with standardised high quality components.

Working principle

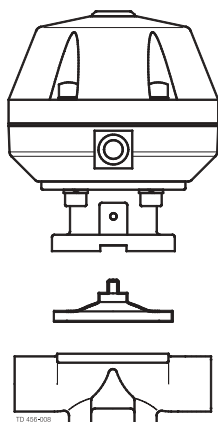
Our Aseptic Diaphragm Valve system is based on the well-proven weir type diaphragm valve together with a wide range of diaphragms and actuators with associated control and indication units.

Standard design

With the modular design of the Aseptic Diaphragm Valve nearly all possible configurations are feasible. The valve is composed of the following parts:

- Actuator - either manual or pneumatic
- Diaphragm - available in a variety of soft and hard elastomers.
- Valve body - the standard type is a two-way, but other configurations are available. The body can be supplied according to a variety of tube connections and in several surface finishes.

You can combine the 3 parts in almost any combination. Alfa Laval offers a standard range with the most common combinations and further combinations are available as options.



Standard program

Our standard valve configurations are selected in order to simplify selection and ordering. The standard Aseptic Diaphragm Valve range is suitable for most applications in the pharmaceutical industry.

Apart from the standard valve configuration, Alfa Laval also offers a large variety of options where you can compose your own valve from our different options.

Below is an overview of our range:

Seat	DN	Inch	Standard/Option
8	4		Option
8	6		Option
8	8		Standard
8	10		Standard
8	15		Standard
10	10	3/8"	Standard
10	15	1/2"	Standard
10	20	3/4"	Standard
25	15	1/2"	Standard
25	20	3/4"	Standard
25	25	1"	Standard
40	32		Standard
40	40	1 1/2"	Standard
50	50	2"	Standard
80	65		Option
80	80		Option
100	100		Option

	Standard	Option
Body		
Configuration	2-way	Tank bottom & T-valves
Pipe standard	ISO, DIN 2 nd Series, ASME BPE and JIS	SMS, DIN other series, BS OD and JIS
Connections	Welding ends	Clamps, aseptic unions, flanges
Surface finish	Ra ≤ 0.8 µm and Ra ≤ 0.4 µm	Ra ≤ 6.3, 0.6, 0.25 µm optional electropolished for all Ra values
Stainless steel specifications	Forged, investment cast	Forged and cast with low ferrite contents.
Diaphragm		
Material	EPDM, PTFE/EPDM	EPDM/Reinforced PTFE/Silicone
Actuator		
Manual	Plastic handle	Stainless steel handle
Pneumatic	Plastic or stainless steel Normally open and Normally closed	Double-acting Stroke limiter Position indicators

¹⁾ See PD sheet 66417

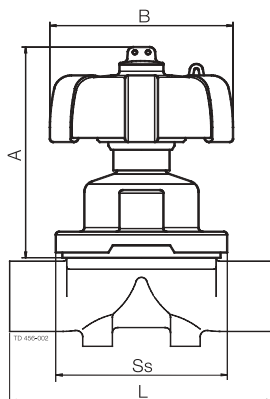
Certification:

Surface finish certificate

Traceability certificate EN10204 3.1 B on valve bodies.

For more detailed information about the choices, see further information in the specific data sheets for valve bodies, diaphragms and actuators.

Dimensions



Seat size (Ss)	Dim	Manual				Actuator							
						Normally Closed				Normally Open			
		601	612	673	653	605	625	687	650	605	625	687	650
8	A max.	62				92.5			77	92.5			77
	B max.	32				68			42	68			42
	L max.	72				72			72	72			72
10	A max.		83		89	102.5			101		62.5		101
	B max.		60		63	68			61		68		61
	L max.		108		108	108			108		108		108
25	A max.			116	108			143	130			109	130
	B max.			90	92			128	90			128	90
	L max.			120	120			120	120			120	120
40	A max.			133	133			180	168			138	168
	B max.			114	114			158	114			158	114
	L max.			153	153			153	153			153	153
50	A max.			144	155			215	216			161	216
	B max.			140	132			213	132			213	132
	L max.			173	173			173	173			173	173

The dimensions and weights are the maximum values and will vary slightly with the port connection.

Technical data

For further technical data, please see specifications in the separate PD sheets for Valve bodies, Diaphragms and Actuators.

Ordering

The ordering leaflets include item numbers for complete valves of the standard program - these numbers can be used directly for ordering.

When ordering other options, please state the following:

- Port size
- Seat size
- Body configuration
- Tube standard
- Connection
- Surface finish
- Stainless steel quality
- Diaphragm material
- Actuator type
- Additional options

The valves are supplied disassembled in 3 parts

Please specify if you want the valve assembled on delivery.