

GEMÜ C67 CleanStar PFA

Manually operated diaphragm valve with PFA valve body



Features

- High purity due to cleanroom manufacturing
- High flow rate with low-stress media channelling
- Minimal deadleg
- Optional flow direction
- Reduced costs thanks to long service life

Description

The GEMÜ C67 HPW CleanStar ultra pure 2/2-way diaphragm valve is manually operated. All media wetted parts are made of PFA or PTFE. An integrated optical position indicator is standard. This High Purity version of the CleanStar series complies with the strictest purity standards and boasts high chemical resistance. As such, it is often used at the supply and distribution level in semiconductor factories.

Technical specifications

- **Media temperature:** 14 to 212 °F
- **Ambient temperature:** 32 to 140 °F
- **Operating pressure:** 0 to 90 psi
- **Nominal sizes:** 1/4" (DN 40) to 2" (DN 50)
- **Body configurations:** 2/2-way body
- **Connection types:** Butt weld spigot
- **Body materials:** PFA
- **Diaphragm materials:** PTFE/EPDM
- **Conformities:** EAC | FDA | TA Luft (German Clean Air Act)

Technical data depends on the respective configuration



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Product description



No.	Name	Materials
1	Position indicator	
2	Actuator	PVDF (housing)
3	Actuator union nut	PVDF
4	Mounting lugs	
5	Valve body	PFA
	Diaphragm (internal)	PTFE (media wetted) / EPDM

Availability C67 PFA

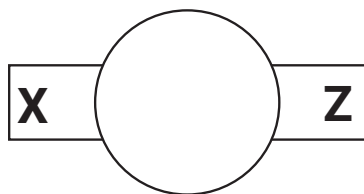
Body configuration - 2/2-way body (code D)

Materials

International code	DN	Connection size X, Z
24	40	1½" pipe
32	50	2" pipe

Connections

Body configuration - 2/2-way body (code D)



Connection type butt weld spigot (code 30)

Actuator size (code)	Connection size X, Z (code)	Butt weld spigot	
		On both sides	On one side, pos. Z
4	24	X	-
4	32	X	-

Order data C67 PFA**Order data - body configuration - 2/2-way body (code D)****Order codes**

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

1 Type	Code
Diaphragm valve, manually operated, plastic handwheel	C67

2 Connection size	Code
1 1/2", international code: 24	24
2", international code: 32	32

3 Body configuration	Code
2/2-way body	D

4 Connection type	Code
Pipe	
Imperial butt weld spigot	30

5 Valve body material	Code
PFA, perfluoroalkoxy	30

6 Diaphragm material	Code
PTFE/EPDM two-piece	5M

7 Control function	Code
Manually operated	0

8 Actuator version	Code
Standard version	
Actuator size 4	4

9 High Purity version	Code
High Purity white	HPW

Order example

Order option	Code	Description
1 Type	C67	Diaphragm valve, manually operated, plastic handwheel
2 Connection size	32	2", international code: 32
3 Body configuration	D	2/2-way body
4 Connection type	30	Imperial butt weld spigot
5 Valve body material	30	PFA, perfluoroalkoxy
6 Diaphragm material	5M	PTFE/EPDM two-piece
7 Control function	0	Manually operated
8 Actuator version	4	Actuator size 4
9 High Purity version	HPW	High Purity white

Technical data C67 PFA

Medium

Working medium: Corrosive, inert, gaseous and liquid media – in particular high-purity media – which have no negative impact on the physical and chemical properties of the body and diaphragm material.

Temperature

Media temperature: Valve body material PFA (code 30): 14 – 212 °F
Observe pressure/temperature diagram

Ambient temperature: 32 – 140 °F

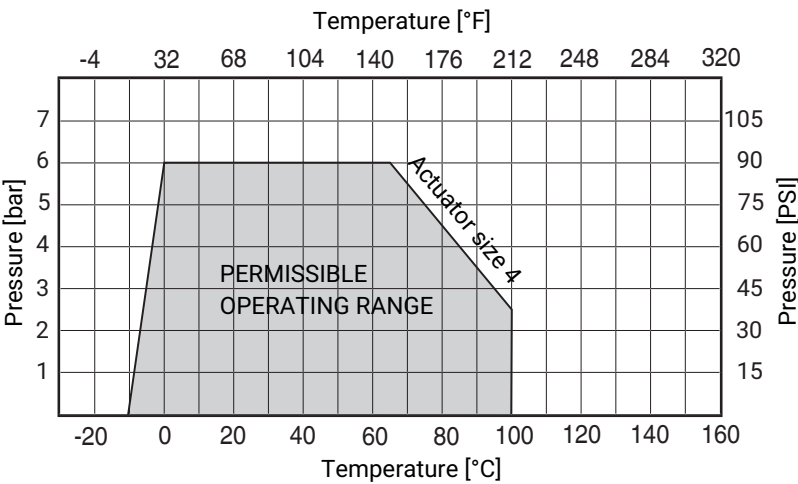
Storage temperature: 32 – 104 °F

Pressure

Operating pressure: 0 – 90 psi

Pressure/temperature diagram:

Valve body material PFA (code 30)



Note: The pressure/temperature diagram is only an aid. The data refers to water as a working medium. A change of operating conditions or other media may result in deviations. In case of doubt, it is advisable to test the behaviour of the material under the definitive operating conditions in a test installation. Temperatures below 0 °C can have a negative influence on the actuation speed.

Kv-values:

Body configuration - 2/2-way body (code D)

Actuator size (code)	Connection size	Connection on both sides
	X, Z	Pipe connection
4	1½ "	88.0
	2"	88.0

Cv values in gpm

Vacuum: 11.8 inhg absolute

The service life of the valve may be affected if exposed to a greater vacuum or when valves are installed on the pump suction side.

Product conformities

Machinery Directive: 2006/42/EC

Food: FDA

EAC: The product is certified according to EAC.

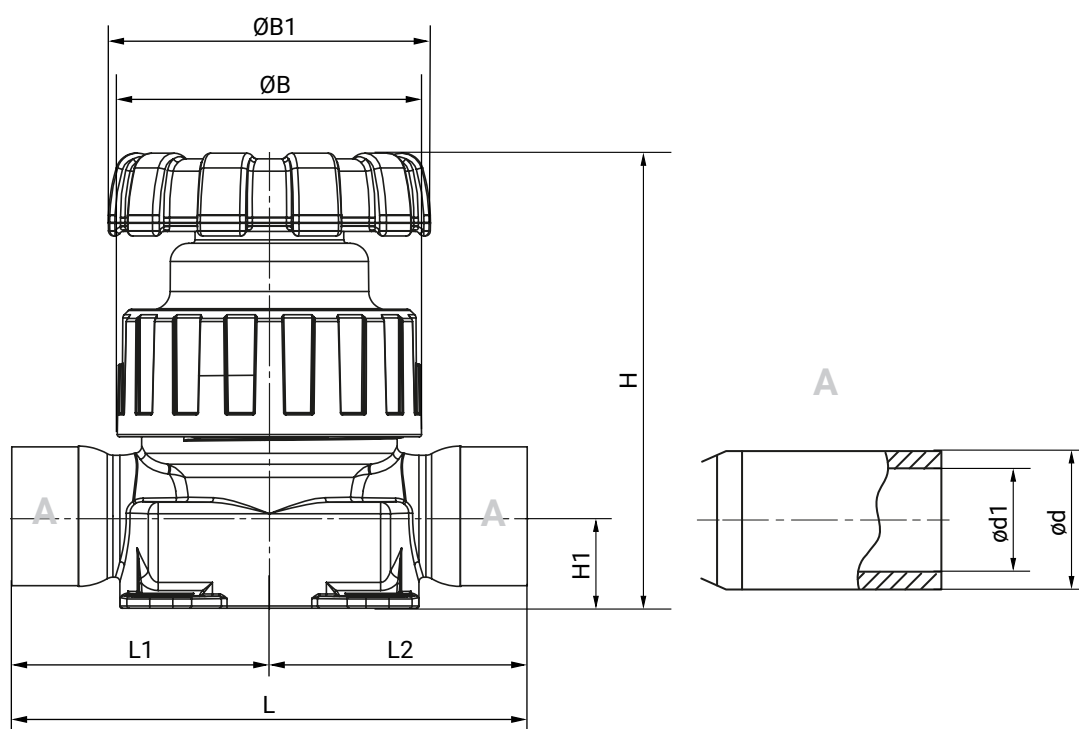
Mechanical data

Flow direction: Optional

Dimensions C67 PFA

2/2-way valves (code D)

Butt weld spigot (code 30)



Actuator size ¹⁾	Conne- ction size	ØB	ØB1	H	H1	L	L1	L2	Spigot (A)	
									ød	ød1
4	1½"	5.21	5.51	7.79	1.57	7.64	3.82	3.82	1.90	1.61
4	2"	5.21	5.51	7.79	1.57	8.82	4.41	4.41	2.37	2.06

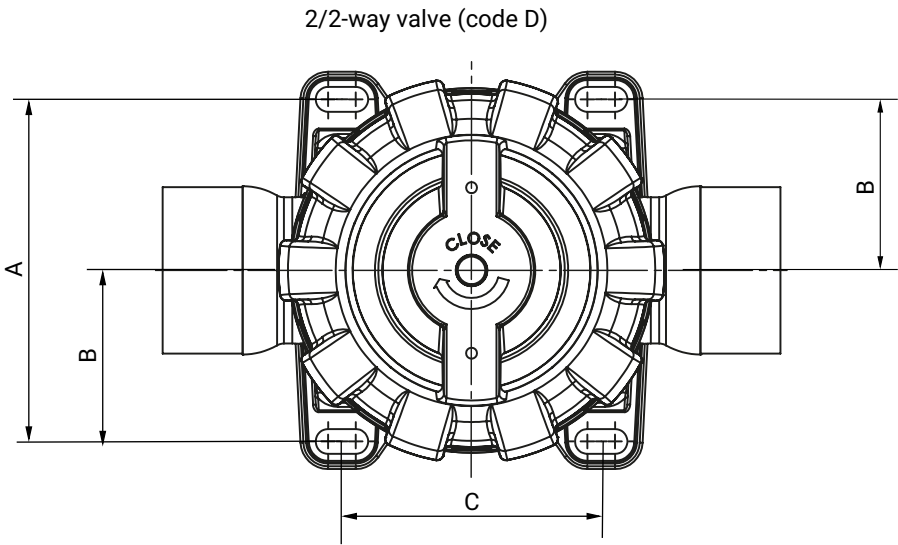
Dimensions in inch

1) **Actuator version**

Code 4: Actuator size 4

Mounting dimensions

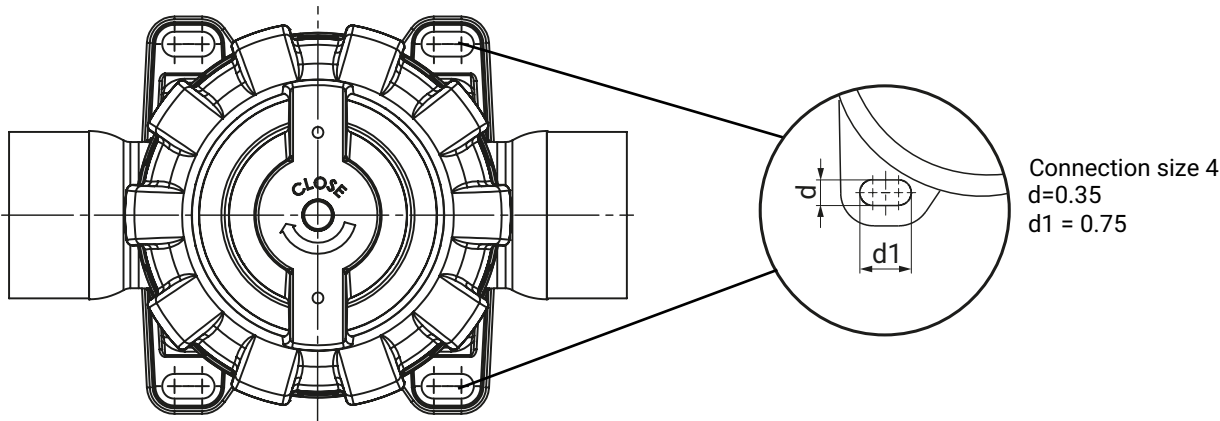
2/2-way valves (code D)



Actuator size	ød	A	B	C
4	0.35	4.88	2.44	3.70

Dimensions in inch

Mounting holes, round and slotted hole



Dimensions in inch

Accessories



GEMÜ C67 STA

Service tool for actuators

Service tool for installation and removal of the central union nut.



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