



GEMÜ C60 CleanStar
AG4, pneumatically operated



GEMÜ C67 CleanStar
AG4, manually operated

Pneumatically and manually operated diaphragm valves GEMÜ C60/C67 CleanStar – actuator size 4

Areas of application

Diaphragm valves for ultra-pure applications in the semiconductor industry:

- Chemical supply for the processes of polishing, cleaning and wet etching
- Supply of large quantities (bulk supply, day tank supply)
- Blending and distribution systems (slurry mixing, VMB)

Features

- High Kv value
- Wetted parts made of PFA or PTFE, specially designed for use in high-purity applications
- Excellent footprint/flow ratio
- Minimal deadleg
- External parts made of PVDF
- CleanStar design that has been established on the market for many years
- Cleanroom manufacturing complies with SEMI F57

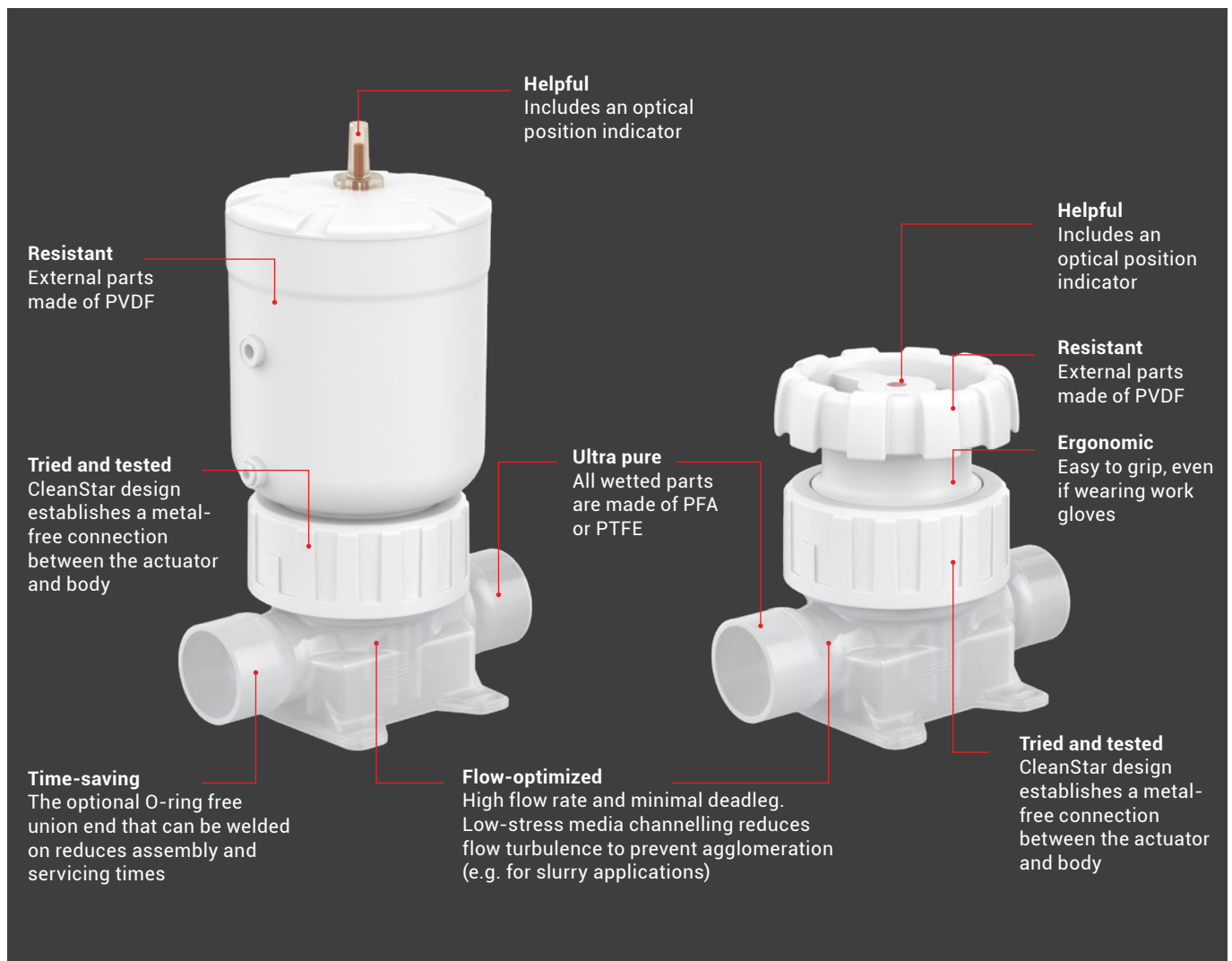
GEMÜ C60/C67 CleanStar - actuator size 4

Description

The ultra-pure 2/2-way CleanStar product range's new actuator size 4 was developed to continue to meet the ever-increasing market requirements in terms of the quantities and purity of process media. The large nominal sizes allow ultra-pure valve designs to be used even at the supply and distribution level of semiconductor production. The valve comes with an optical position indicator. In addition, solid mounting lugs with slotted holes have been integrated into the body design. The CleanStar design, which is tried and tested over many years and is established on the market, was retained in the development of the new actuator size.

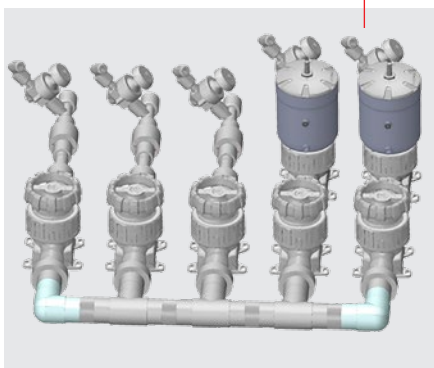
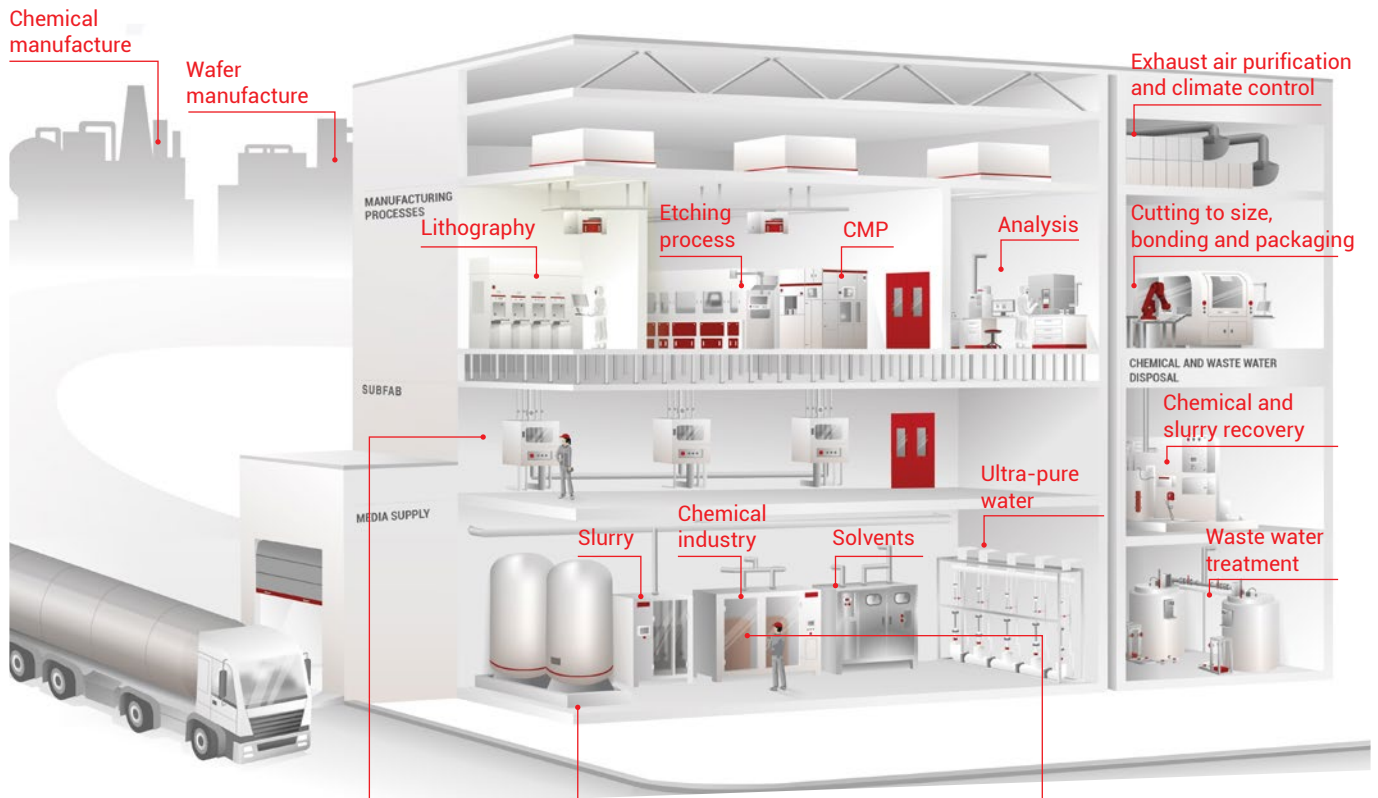
Technical specifications

- **Media temperature:**
-10 °C to 100 °C
- **Ambient temperature:**
Max. 60 °C
- **Operating pressure:**
Max. 6 bar [87 psig] applied upstream
- **Nominal sizes:**
2" (DN50) | 1½" (DN40)
- **Kv value:**
73,5 m³/h (2") | 73,5 m³/h (1½")
- **Connection types:**
Butt weld spigot
Union end (optional)
- **Body configurations:**
2/2-way body
- **Body material:**
PFA



The semiconductor industry's requirements on valve designs are constantly growing. Wafer diameters increased in the past and raised the amount of process media required. At the same time, ever-smaller structures on the microchips require fluids of maximum purity that are free of particles. GEMÜ takes both of these progressions into account with the launch of the new actuator size 4.

The new actuator size 4 is available in nominal sizes 1 1/2" and 2". All wetted parts are made of PFA or PTFE. That enables our customers to transport large media quantities and also to build high-purity conditions at a very early stage of the transport process (media supply area). In addition, the compact CleanStar design ensures an excellent flow/footprint ratio.



Blending and distribution systems

Large media quantities are mixed and distributed to the individual process areas, e.g. to slurry mixing plants or valve manifold boxes (VMB).




Supply of large quantities

The large nominal sizes allow ultra-pure valve designs to even be used near supply tanks. (Bulk supply, day tank supply).



Chemical supply systems

The chemical resistance of the external and internal components enable chemical supply systems (CDS/CDU) to be used.



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