



GAS - TIGHT PRODUCTS



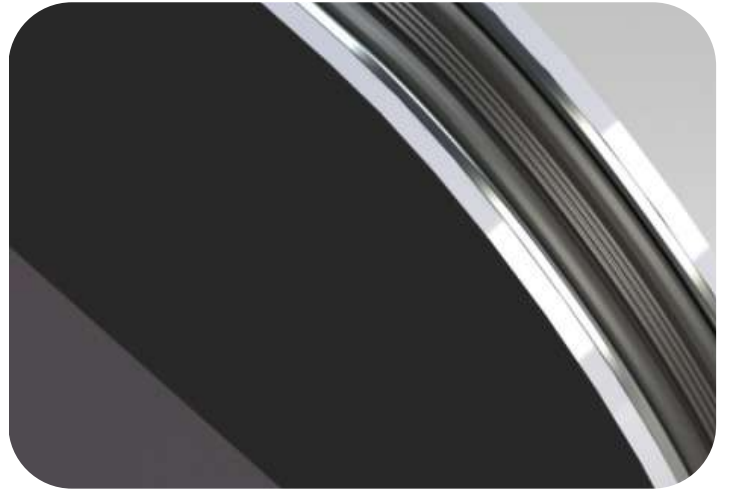
CLEANROOM • HVAC • SPECIAL PRODUCTS

TEKNO ELEKTROMEKANİK MÜHENDİSLİK SAN. VE TİC. A.Ş.

HTL-GAS-TIGHT PRODUCTS

Gas - Tight Systems Applications:

- High-level biosafety BSL-3 / BSL-4 virus and recombinant DNA Laboratories
- Decontamination, fumigation rooms
- Places Requiring Fumigation Microbiology, GMO Laboratories
- Nuclear, biological and chemical plants, dry rooms
- Facilities where sealing is vital for the safety of environment, personnel and product like NBC shelters.
- Operating rooms sterilized with H₂O₂ Sterilization, etc. facilities



Customer-focused, contemporary, economical and fast solutions ...

Product Range:

- Gas-tight doors
- Gas-tight dampers
- Gas-tight pass-boxes
- Decontamination showers

Gas-tight sealing working system :

- The door wing has an inflatable pneumatic seal around it. This seal can be compared to the inner tube of the bicycle. Seal material is resistant to disinfectants and various chemicals and is designed as a minimum dead volume.
- When the door open the sealing in shrunken state.
- When the door is closed compressed air is applied to the gasket and seal all round swell. This swelling effect is fully seated in the outer casing gaskets and provides a perfect seal.
- When you want to open the door with the automation system air inlet connection is opened and the air in the sealing exhausted and the seal shrinks inward.
- When the shrinkage is completed allows the electric lock to open the door opening.
- Pass-box has the same gas-tight seal system and is also used in gas-tight dampers.

Technical characteristics:

- Frame 304 stainless steel as a standard 316 stainless steel is optional,
- Wing 2x6 mm tempered glass, or stainless steel
- Fully automatic PLC control system provides a reliable and complete safety.
- In cases of compressor failure, puncture of the seal , leakage and so on alarm signal produced.
- Possible to produce the required size.
- Card reader, fingerprint, iris recognition, and so on. the control system can be adapted to the door.
- Compressor can be added to the control box
- Possible communication with building management systems.

Door dimension			
Type	Net passage (bxh)mm	Outer dimension (bxh)mm	Frame dimension (mm)
SK-700	700x2100	820x2220	100
SK-800	800x2100	920x2220	100
SK-900	900x2100	1020x2220	100
SK-1000	1000x2100	1120x2220	100
SK-1100	1100x2100	1220x2220	100
SK-1200	1200x2100	1320x2220	100
SK-1300	1300x2100	1420x2220	100
SK-1400	1400x2100	1520x2220	100
Other Dimension on request			
A vacuum pump could be added for faster operation			

Gas-tight dampers			
Diameter (mm)	Air volume (V=5m/s) m ³ /h	Air volume (V=6m/s) m ³ /h	Air volume (V=7.5m/s) m ³ /h
250	880	1,060	1,330
280	1,110	1,330	1,660
315	1,400	1,680	2,100
355	1,780	2,140	2,670
400	2,260	2,710	3,390
450	2,860	3,440	4,290
500	3,530	4,240	5,300
560	4,430	5,320	6,650
630	5,610	6,730	8,420
710	7,130	8,550	10,690

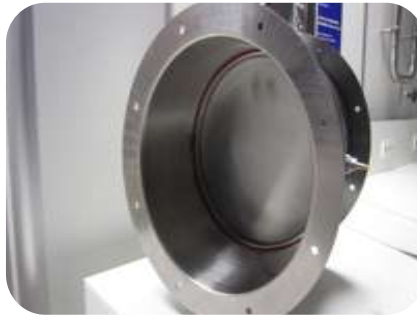
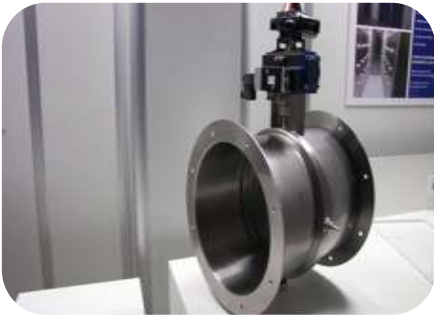
Gas -Tight Pass-boxes:

In addition to the features available in a gas-tight door:

- UV-C is sterilized,
- H₂O₂ gas sterilized,
- Supply / egsozt or has both supply and exhaust HEPA filter can be produced.

**Gas -Tight Dampers:**

- Case 304 as standard optional 316 stainless steel can be made.
- Wing 304 as standard, optionally 316 grade stainless steel.
- Actuator is driven by compressed air.
- Damper position both visual (red-green) both electrically monitored.

**Representation for Europe:**

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