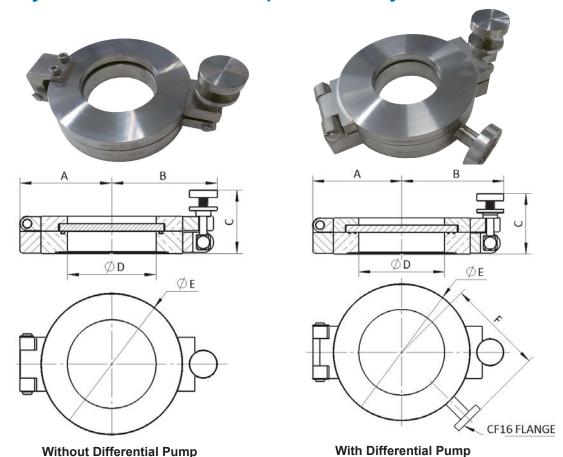
# Sample Transfer Devices

### **Fast Entry Door & Differential Pumped Fast Entry Door**



Flange (OD)		Typo	Α	В	С	D	Е	F	Weight	Part Number
mm	inch	Туре	mm					(Kg)	Part Number	
70	2.75		48	35	32	40	70		0.5	FED2
114	4.50	Without Differential Pump	79	88	59	61	114		2.0	FED4
152	6.00		99	113	68	95	152		4.0	FED6
114	4.50	With Differential Dumn	79	88	59	61	114	80	2.3	FED4-DP
4.50		With Differential Pump		4.4.0			4 = 0	40-		

99 | 113 | 68 | 95 | 152 |

107

4.4

Fast Entry Doors provide convenient and fast manual loading of samples in and out of vacuum chambers. Doors are fitted with a spring-loaded hand knob locking mechanism, this patented design also prevent the Load Lock Chamber from being over-pressurized as the door will be pushed open.

Two types of Fast Entry Doors are offered to the market for different application. The conventional model has single Viton® elastomer seal and suitable for vacuum sealing to 10-8 mbar, the convention model uses Quartz as window material and it is replaceable. The other model is designed for UHV application and could seal the chamber to 10-10 mbar by double elastomer seals and differential pumping in between.

These Fast Entry Doors are compatible with all NW-CF flanges and could be installed with either tapped or clear hole flange. However please confirm with our sales or distributor for the bolt hole orientation for proper installation.

Fermi Instruments also offers larger and customized fast entry doors.

6.00

152

FED6-DP

## **Vacuum Quick Access Doors**

#### Product Information

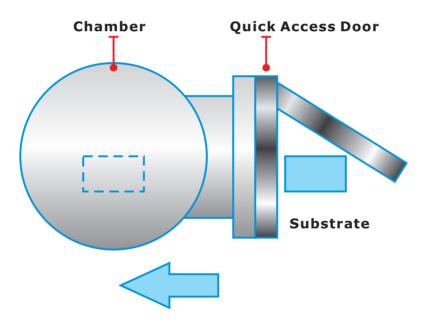
Vacuum Quick Access Doors are designed to gain immediate access to load locks and chambers to load and unload substrates. **AdvanTorr** offers two styles including a blank door only or a door with integrated viewport to allow for viewing access.

Optional high-grade SS316L material is available where higher purity with a low outgassing rate is required.

#### Product Features \_\_\_\_\_

- System Components
- Available in a range of flange sizes with and without integrated viewport.
- SS304L material as standard with option for higher-grade SS316L.
- Components Precision hinged door with reliable FKM O-ring seal.
  - CF port mounts.
  - Can be installed in any position.

### **Product Application**\_



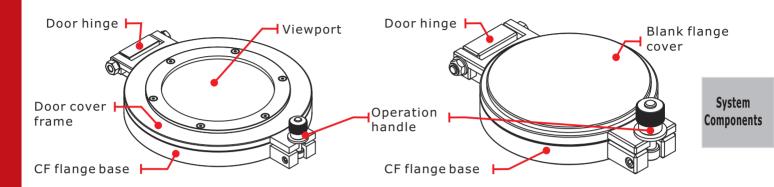
Substrate can transfer from atmosphere to vacuum chamber via quick access door

# **Vacuum Quick Access Doors**

## Key Product Parts \_\_\_\_\_

### **Viewport type**

### Blank flange type



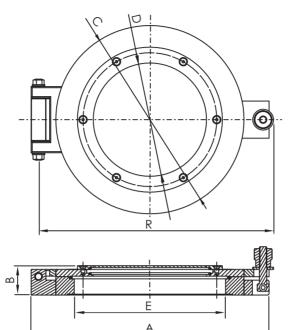
### **Technical Data for Quick Access Doors**

Door seal	FKM					
Mounting seal	OFHC gasket					
	760 Torr ~ 1x10 <sup>-8</sup> Torr					
Operate pressure range	1,000 mbar~1.33x10 <sup>-8</sup> mbar					
	100 kPa∼ 1.13x10 <sup>-9</sup> kPa					
	1 x 10 <sup>-9</sup> Torr l/s, He					
Leak rate	1.33x10 <sup>-9</sup> mbar l/s, He					
	1.13x10 <sup>-10</sup> kPa l/s, He					
Temperature range	-20°C (-4°F)~150°C (302°F)					
Bake temperature	100°C (212°F)					
Body material	SS304L					
Hinge material	Optional high-grade SS31 6L material					
Viewport material	Glass (only with viewport version)					
Mounting position	Any					



# **Vacuum Quick Access Doors**

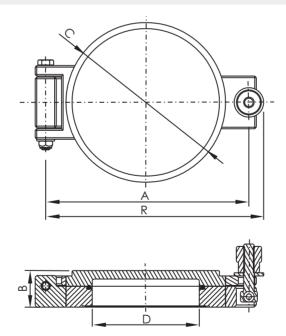
# **Product Order Information**



System Components

#### Quick Access Door - Viewport Type

Part Number	Flange Size	A	В	С	D	E
QDV-CF-450	CF4.5"	177	32	114	64	64
QDV-CF-600	CF6"	215	35	152	102	102
QDV-CF-800	CF8"	276	37	202	152	153
QDV-CF-1000	CF10"	326	39	253	152	204



#### Quick Access Door - Blank Flange Type

Part Number	Flange Size	Α	В	С	D
QDB-CF-450	CF4.5"	1 <i>77</i>	32	114	64
QDB-CF-600	CF6"	217	35	152	102
QDB-CF-800	CF8"	276	37	202	153
QDB-CF-1000	CF10"	326	39	253	204