



# STANDARD PRESSURE VESSELS QGV SERIES (sliding door/s)

## Featuring ROTASIL™ The Intrinsically Safe Door Locking System.

### Technical specifications.

- Chamber designed to comply with ASME Code Section VIII Division 1.
- High precision mechanized fronts assures no leaks and long life of door's seals.
- Door/s and jacket provides connections for hook up to a heating system.
- Chamber design allows for standard penetrations up to 14".
- Door/s can optionally include automatic control panel for local or remote operations.
- Interlock - **locking system ROTASIL™** allows for installation of additional sensors to feed back door position.
- Chamber walls and door/s can be polished according to customer process application.
- Chambers can optionally include safety devices.
- Fatigue Analysis: chamber design allows for a minimum expectance life 800.000 to 1.000.000 cycles.
- Sanitary design: chamber vertexes have rounded finishing joins (rounded corners).
- Quality Control: quality certificate issued by Loyd's Register.
- Chlorine free insulation panels (optional).
- Floor: chamber tilting floor design allows for an efficient drain of condensate.

### ROTASIL™ locking system - Main advantages.

- Oring concept design
- Doors remain locked during power off.
- Very low seal replacement cost.
- **ROTASIL™** does not need air compressed or fluids for operation. Only Electricity.
- ULLR (Ultra Low Leak Rate) allows for high vacuum process applications 10<sup>-6</sup>.
- Rapid locking time 15 seconds.
- ZERO maintenance concept.
- Hazardous applications (TOXIC or FLAMMABLES GASSES).
- Does not need recalibrations after start up.
- Smooth & silent operation, less than 40 db.
- Explosion proof option Class 1 Division 1 NEC-USA.
- Flexidoor concept design.

MODEL	WIDTH Inch (m)	HEIGHT Inch (m)	DEPTH Inch (m)	VOL. Cf (m³)	WEIGHT** Lbs (kg)
QGV-80*	11.8 (0.30)	9.4 (0.24)	47.2 (1.20)	3.05 (0.08)	165 (75)
QGV-100	15.7 (0.40)	15.7 (0.40)	23.6 (0.60)	3.39 (0.10)	374 (170)
QGV-140	15.7 (0.40)	15.7 (0.40)	35.4 (0.90)	5.08 (0.14)	440 (200)
QGV-200	15.7 (0.40)	15.7 (0.40)	49.2 (1.25)	7.06 (0.20)	551 (250)
QGV-400	23.6 (0.60)	23.6 (0.60)	47.2 (1.20)	15.2 (0.43)	1036 (470)
QGV-500	23.6 (0.60)	23.6 (0.60)	59.0 (1.50)	19.0 (0.54)	1432 (650)
QGV-1000	35.4 (0.90)	23.6 (0.60)	78.7 (2.00)	38.1 (1.08)	2645 (1200)
QGV-1300	38.5 (0.98)	26.7 (0.68)	78.7 (2.00)	47.0 (1.33)	3968 (1800)
QGV-2500	37.0 (0.94)	29.1 (0.74)	149 (3.80)	93.3 (2.64)	4850 (2200)
QGV-4500	37.4 (0.95)	67.0 (1.70)	106 (2.70)	154 (4.36)	6834 (3100)
QGV-6500	55.0 (1.40)	63.3 (1.61)	118 (3.00)	239 (6.76)	9920 (4500)
QGV-7500	55.1 (1.40)	78.7 (2.00)	106 (2.70)	267 (7.56)	7495 (3400)
QGV-13000	72.0 (1.83)	76.0 (1.93)	149 (3.80)	473 (13.4)	18738 (8500)
QGV-35000	72.0 (1.83)	76.0 (1.93)	393 (10.0)	1247 (35.3)	45194 (20500)
QGV-42000	68.8 (1.75)	102.3 (2.6)	370 (9.40)	1510 (42.7)	66137 (30000)

\* manual hinged door  
\*\* includes doors



**QGV-2500**

Two automatic sliding door pass-through type.

### Materials of construction (selection chart).

	304 <sup>(1)</sup>	316 <sup>(2)</sup>	HQCS <sup>(3)</sup>
Chamber	C01	C02	C03
Jacket	J01	J02	J03
Door inner plate	DP01	DP02	DP03
Door jacket	DJ01	DJ02	DJ03
Sled	S01	S02	S03

Example: QGV-1000-C01-J03-DP01-DJ03-S03

<sup>(1)</sup> A240 AISI 304L 18Cr-8Ni

<sup>(2)</sup> A240 AISI 316L 16Cr-12Ni-2Mo

<sup>(3)</sup> A-36 Carbon Steel - Coating type and color is selected according to chamber application.

Other materials of construction upon request.

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