

Liquid ChangeOver Systems

Model 8404L

Scott™ Brand Liquid ChangeOver Systems are designed to provide a continuous supply of vaporized gas from two or more cryogenic liquid containers. It allows the user to deplete gas in a container without the concerns of gas outages and wasting unused gas as a result of premature changeouts. When in use, the built-in gas saver circuit directs accumulated pressure from the reserve supply container to the process before the container relief valve opens, venting usable product to the atmosphere. When the system is not operating, the gas saver circuit inactivates allowing both containers to accumulate pressure and vent to atmosphere. Adequate ventilation should therefore be provided to safely remove or dispense the gaseous discharge.



Benefits/Features

- Eliminates costly downtime by providing constant, uninterrupted gas flow.
- Prevents gas outages and wasted gas due to premature dewar changeouts.
- Reduces operating costs by permitting scheduled dewar changeouts.
- Cleaned for oxygen service.
- Built-in gas saver circuit eliminates waste by preventing the reserve supply's accumulated head gas pressure from being discharged to the atmosphere.
- Check valves prevent discharge of gas from pigtails when changing dewars.

Specifications

- Inlet Pressure:** 600 psig (41 bar) maximum
- Delivery Pressure Gauge:** 0 – 200 psig (0 – 14 bar)
- Inlet Pressure Gauge:** 0 – 600 psig (0 – 41 bar)
- Operating Temperature Range:** -40°F to 140°F (-40°C to 60°C)
- Flow Coefficient:** Cv = 0.02
- Flow Capacity:** 200 SCFH (N₂) at 220 psig (15 bar) minimum inlet pressure
- Gauge Size:** 2.5" (67 mm) face
- Outlet Fitting:** 1/4" compression
- Weight:** 12 lbs. (5.4 kg)

Materials of Construction

- Body:** Nickel-plated brass or 316L Stainless Steel
- Diaphragms:** 316L Stainless Steel
- Seats:** PCTFE
- Bonnet:** Nickel-plated brass
- Internal Metal Parts Exposed to Brass:** Brass or stainless steel
- Gauges:** Brass or stainless steel
- Pigtails:** Standard 60" (152.4 cm) 316 Stainless Steel (other lengths available)
- CGAs:** Brass or 316L Stainless Steel
- Panel:** 14-gauge powder-coated steel

Model 8404L	ChangeOver						Dewar				
	Adjustable Delivery Pressure		Primary Switching Band		Gas Saver Circuit (Economizer)		Safety Relief (Minimum)		Pressure Build Circuit (Minimum)		
	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar	
Model Number											
Brass											
Q8404LB1-(*)	90	6	100 – 130	7 – 9	190	13	230	16	160	11	
Q8404LB2-(*)	150	10	180 – 200	12 – 14	290	20	350	24	220	15	
Q8404LB3-(*)	150	10	200 – 220	14 – 15	400	28	500	35	240	17	
Stainless Steel											
Q8404LS1-(*)	90	6	100 – 130	7 – 9	190	13	230	16	160	11	
Q8404LS2-(*)	150	10	180 – 200	12 – 14	290	20	350	24	220	15	
Q8404LS3-(*)	150	10	200 – 220	14 – 15	400	28	500	35	240	17	

* Replace with CGA from table below.

Please note: Each unit comes with 5' pigtails with integral check valves. Longer lengths are available.

Gas Service	CGA Connection	Code
Argon, helium or nitrogen	580	N2
Carbon dioxide	320	CD
Oxygen	540	O2

Optional Equipment

- Annunciator
- Flow limit shutoff valve
- Pressure relief valves
- Pressure switches