

High-Purity Primary ChangeOvers

Model 8ACS

Scott™ 8ACS Series changeover manifolds provide continuous flow of gas between a primary and a secondary or backup supply. When a primary gas supply has been depleted, the changeover unit automatically switches to a secondary supply. A downstream line regulator should be used to eliminate resulting pressure fluctuation and to ensure constant delivery pressure to the application. Use of a changeover system prevents gas outages caused by empty cylinders or the waste of gas due to premature cylinder changeouts. The Model 8ACS incorporates two diffusion-resistant regulators with packless inlet valves to allow supply banks to be completely isolated. Available in either brass or stainless steel, the unit is also equipped with a stainless steel bracket for wall mounting.



Benefits/Features

- Prevents gas outages and waste caused by premature cylinder changeout.
- Improves operating efficiency of process by increasing uptime and reducing labor costs.
- Protects gas purity with diffusion-resistant regulators designed for high-purity applications.
- Isolates gas source completely during changeout through use of diaphragm valves.
- Compact design saves space.
- Easy to operate.

Specifications

- Inlet Pressure:** 3000 psig (207 bar) maximum
300 psig (21 bar) minimum
- Operating Temperature Range:**
-40°F to 140°F (-40°C to 60°C)
- Flow Coefficient:** Cv = 0.06
- Flow Capacity:** 360 SCFH (N₂) maximum
- Inlet Connections:** 1/4" NPT Female
- Gauge Size:** 2" (53 mm) face
- Weight:** 11 lbs. (4.9 kg)

Materials of Construction

- Body:** Brass or 316 Stainless Steel
- Diaphragm:** 316 Stainless Steel
- Pigtails:** 36" stainless steel flexible pigtail with brass or 316 Stainless Steel CGA fittings as appropriate
- Seats:** PTFE
- Seals:** PTFE
- Bonnet:** Brass or 300 Stainless Steel
- Gauges:** Brass or stainless steel

Model 8ACS		Inlet Pressure Gauge		Delivery Pressure Range (Nonadjustable)		Delivery Pressure Gauge	
Brass	Stainless Steel	psig	bar	psig	bar	psig	bar
Q8-ACS-B-B-(*)	Q8-ACS-S-B-(*)	0 – 4000	0 – 276	150 – 165	10 – 11	0 – 400	0 – 28

* Replace with CGA from table below.

Gas Service	CGA Connection**	Code
Air	590	A5
Argon, helium or nitrogen	580	N2
Carbon dioxide	320	CD
Hydrogen, methane or carbon monoxide	350†	H2
Oxygen	540†	O2

** Other cylinder connections are available – please contact your Air Liquide representative.

† If your system requires CGA 350 (flammable) or CGA 540 (oxygen), an explosion-proof switch should be used. Contact your Air Liquide representative for more information.

Option: Indicating pressure switch gauges with annunciator can be added to this system by placing an A at the end of the part number (i.e. Q8-ACS-B-B-N2A)

Optional Equipment

- Annunciator
- Flash arrester
- Flow limit shutoff valves
- Pressure relief valves
- Pressure switches
- Check valves (2 required – one for each pigtail)