Humphrey TAC Total Air Control Components

These pressure regulators, speed controls, check valves, shuttle valves, and shuttle/quick exhaust valves have been specifically designed to integrate with the Humphrey TAC Total Air Control system.



RSR Air Pressure Regulator

This self-relieving air pressure regulator regulates pressure up to 125 psig with maximum supply pressure to IN port of 150 psig.

Flow (scfm to atmosphere): 11 scfm at 100 psig using #10-32 female IN port.

22 scfm at 100 psig using 1/8-inch male IN port. The valve has two #10-32 female OUT ports at 180°. Mounting threads are 15/32" x 32 x 9/32". Furnished with knurled adjusting screw and locknut, plus two mounting locknuts and lockwashers. Weight: 3.25 oz. (92.1 gms.).





SC1 Speed Control

Model SC1 Speed Control provides free flow in one direction and excellent controlled flow in the opposite direction at 3 to 125 psig.

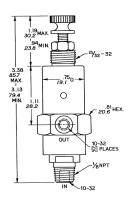
Flow: 6.5 scfm at 100 psig, both directions of flow.

The SC1 Speed Control maintains accurate setting even under severe vibration. Its knurled

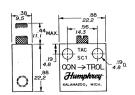
adjusting screw cannot be removed and provides easy finger adjustment. SC1 controls have #10-32 port threads at both ends and may be attached to panels or stacked in multiples with two 0.187-inch Dia. screw holes and #8 screws, or they may be mounted to a Humphrey 8-70 Mounting Bracket with one screw. Weight: 1.1 oz. (31.2 gms.)



RSR



SC1





C1 Check Valve

Model C1 Check Valve has #10-32 male and female ports. Furnished with gasket for male thread. Weight: 3 oz. (85.1 gms.)





SQE Shuttle and Quick Exhaust Valve

Model SQE Shuttle and Quick exhaust valve has #10-32 male and female ports and always exhausts at EXH/IN port when used as a shuttle. Furnished with gasket for male thread. Weight: 4 oz. (113.5 gms.)







C125 Check Valve

Model C125 Check Valve has a spring loaded shuttle and 1/8-inch NPT ports. Weight: 1.1 oz. (31.2 gms.)





S125 Shuttle Valve

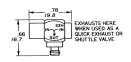
Model S125 Shuttle Valve has a free-floating shuttle to provide fast response, even at low pressure. Ports are 1/8-inch NPT. Weight: 1.2 oz. (34.0 gms.)



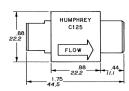
C1

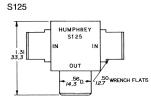


SQE



C125





Specifications

MEDIA: Compressed Air (Consult factory for others)

Compressed Air (Consult factory for others)
PRESSURE RANGE:
\$125, C125: .5 to 125 psig (.03 to 8.6 bars)*
\$0E, C1: 3 to 125 psig (.20 to 8.6 bars)*
*Bubble tight seal: \$125—20 psig (1.4 bars) C125—10 psig (.7 bars) \$QE, C1—15 psig (1.0 bars)

TEMPERATURE RANGE:

20 to 150°F (-7.0 to 65.6°C)

MATERIALS:

\$125, C125: Aluminum, Nylon, Buna N SQE, C1: Brass, Buna N

LUBRICATION Not required

Air Flow to Atmosphere

MODEL	30 PSIG CFM	(2.1 BARS) LPM	50 PSIG CFM	(3.5 BARS) LPM	80 PSIG CFM	(5.5 BARS) LPM
C1	3.2	91.0	4.7	133.0	7.0	198.0
SQE	2.7	76.0	4.0	113.0	5.9	167.0
C125	7.0	198.0	10.0	283.0	16.0	453.0
S125	6.0	170.0	9.0	255.0	13.0	368.0

Air Flow to Atmosphere

100 PSIG	(7.0 BARS)
CFM	LP M
8.2	232.0
7.0	198.0
19.0	538.0
16.0	453.0
	8.2 7.0 19.0

Weight

ACTUAL OUNCES	GRAMS
.3	8.5
.4	11.3
1.1	31.2
1.2	34.0