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Title: RSR, SC1, C1, SQE, C125, S125

ISO Date: July 28, 2004

#### **Don't Take Chances**

Compressed air is an extremely powerful medium. Always take maximum precautions when handling any component of a compressed air system. **Never** attempt to construct, replace, operate or service any component of a compressed air system unless you have been specifically and properly trained to do so. **Always** disconnect the supply air and exhaust the air system before attempting to remove or service a component of that system Failure to heed these warnings could result in SERIOUS, EVEN FATAL, PERSONAL INJURY.

#### **Design And Specifications**

The design and specifications and other product information contained in this catalog is for general reference purposes based upon customary and usual manufacturing standards and product applications. However, it is difficult to predict or to anticipate the functioning or suitability of the product for any particular application or use. Therefore, nothing herein shall be deemed a representation or warranty of the product design or specifications and Buyer shall have the responsibility for investigating and testing the product in any particular application or use and all risks attendant in such use.

Humphrey Products Company 1-800-477-8707 Kalamazoo MI 49003 http://www.humphrey-products.com

# 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  $\ensuremath{\gamma_8}\xspace$  -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.

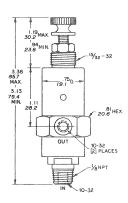
Flow: 6.5 scfm at 100 psig, both directions of flow.

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

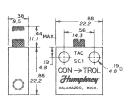
adjusting screw cannot be removed and provides easy finger adjustment. SC1 controls have #10-32 port threads at both ends and may be attached to panels or stacked in multiples with two 0.187-inch Dia. screw holes and #8 screws, or they may be mounted to a Humphrey 8-70 Mounting Bracket with one screw.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



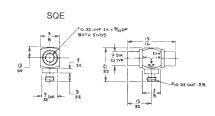


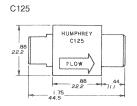
#### S125 Shuttle Valve

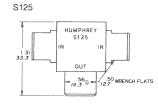
Model S125 Shuttle Valve has a free-floating shuttle to provide fast response, even at low pressure. Ports are 1/8-inch NPT. Weight: 1.2 oz. (34.0 gms.)











#### **Specifications**

Compressed Air (Consult factory for others)
PRESSURE RANGE:

\$125, C125: .5 to 125 psig (.03 to 8.6 bars)\* \*\*Rubble tight seal: \$125 psig (20 to 8.6 bars)\*

\*\*Bubble tight seal: \$125—20 psig (1.4 bars) \$125—10 psig (.7 bars) \$QE, \$C1—15 psig (1.0 bars)

TEMPERATURE RANGE:

20 TO 1508F 9-7.0 TO 65.68C)

MATERIALS:

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

#### 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 SQE	3.2 2.7	91.0 76.0	4.7 4.0	133.0 113.0	7.0 5.9	198.0 167.0
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

7 11 1 10 11 10 7111100piloto				
100 PSIG CFM	(7.0 BARS) LPM			
8.2	232.0			
7.0	198.0			
19.0	538.0			
16.0	453.0			
	100 PSIG CFM 8.2 7.0 19.0			

#### Weight

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

#### **MISCELLANEOUS PRODUCTS**

# VALVES/MANIFOLD/FLOW CONTROL/REGULATOR

MODEL	Fluoroelastomer Seals	DESCRIPTION
RSR	NA	Self Relieving Regulator.
SC1	NA	Flow Control.
C125	Specify	Check Valve, 1/8-inch ports.
C1	NA	Check Valve, #10-32 ports
S125	Specify	Shuttle Valve, 1/8-inch ports.
AM8	NA	8 Port Air Manifold.

Order example: C125-VAI REMEMBER: Option Codes marked STD, NA are not used as part of the Model Number when ordering.

## **ELECTRIC STYLE**

MODEL	DESCRIPTION
BA-2R-AR	2-Position Electric Switch (used with ESB).
ESB	Electric Switch Bracket.

# TAC, TAC<sup>2</sup>, TAC<sup>3</sup> FITTINGS/ACCESSORIES

## **ACCESSORIES**

MODEL	DESCRIPTION
8-60	Bracket-Flat
8-600	Bracket-Angle
8-70	Bracket-Multiple
8-55A	Adapter for Cutler Hammer Electric Actuators

Order example: 8-600

# TAC, TAC<sup>2</sup>, TAC<sup>3</sup> FITTINGS

MODEL	UNIT	DESCRIPTION
BF*	bag-10	Barbed Fitting 1/8 O.D. Hose
BF1*	bag-10	Barbed Fitting 1/4 O.D. Hose
BHF*	bag-10	Bulkhead Fitting
CF*	bag-10	Coupling Fitting
EF*	bag-10	Elbow Fitting
EXF*	bag-10	Extension Fitting
MBTF*	bag-10	Male Branch Tee Fitting
NF*	bag-10	Nipple Fitting
PF*	bag-10	Plug Fitting
PBF1*	bag-10	1/8 Pipe Barbed Fitting
RBF*	bag-10	Reducer Bush, 1/8 NPT-#10-32
RBF1*	bag-10	Reducer Bush, 1/4 NPT-#10-32
SF*	bag-10	Swivel Fitting
SEF*	bag-10	Street Ell Fitting
TF*	bag-10	Tee Fitting
TCF*	bag-10	Tube Compression Fit. #10-32
TCF1*	bag-10	Tube Compression Fit. 1/8 NPT

\*Order by Quantity of Bags Only Order example: TF

Section Appearance in the Control of	NUMBER OF STREET	
MODEL	UNIT	DESCRIPTION
UEF*	bag-10	Univ. Elbow Fitting
URTF*	bag-10	Univ. Running Tee Fitting
UTF*	bag-10	Univ. Tee Fitting
UXF*	bag-10	Univ. X Fitting
28-60A	ea	Cam Roller (For 34CH)
40-13*	bag-10	Hose Clamp-Sleeve for 1/4" O.D. Hose
71-18	ea	Slug (For 34CH)
89-14*	bag-100	Gasket
93-18	ea	Set Screw (For 34CH)
95-27	ea	Screw, UEF & UTF
97-21*	bag-10	Metering Screw
100-35*	bag-10	Lockwasher
110-21*	bag-10	Locknut
120-40	ea	Collar (For 34CH)
150-30A*	bag-10	Muffler # 10-32
150-31A*	bag-10	Muffler # 1/8 NPT
151-20	ea	Handy Wrench

\*Order by Quantity of Bags Only Order example: 71-18