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 1/4-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 0.167-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.).
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 ¼-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 ¼-inch NPT. Weight: 1.2 oz. (34.0 gms.)

Specifications

MEDIA: Compressed Air (Consult factory for others)
PRESSURE RANGE:
S125, C125: 5 to 125 psig (03 to 8.6 bars)*
SQE, C1: 3 to 125 psig (20 to 8.6 bars)*
*Bubble tight seal: S125—26 psig (1.4 bars) C125—10 psig (7 bars) SQE, C1—15 psig (1.0 bars)

TEMPERATURE RANGE: 20 TO 150°F (7 TO 65.6°C)
MATERIALS:
S125, C125: Aluminum, raw Delrin, Buna N
SQE, C1: Brass, Buna N
LUBRICATION: Not Required

Air Flow to Atmosphere

<table>
<thead>
<tr>
<th>MODEL</th>
<th>30 PSIG CPM</th>
<th>(2.1 BARS) LPM</th>
<th>50 PSIG CPM</th>
<th>(3.5 BARS) LPM</th>
<th>80 PSIG CPM</th>
<th>(5.5 BARS) LPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>3.2</td>
<td>91.0</td>
<td>4.7</td>
<td>133.0</td>
<td>7.0</td>
<td>195.0</td>
</tr>
<tr>
<td>SQE</td>
<td>2.7</td>
<td>76.0</td>
<td>4.0</td>
<td>113.0</td>
<td>5.9</td>
<td>167.0</td>
</tr>
<tr>
<td>C125</td>
<td>7.0</td>
<td>198.0</td>
<td>10.0</td>
<td>283.0</td>
<td>16.0</td>
<td>453.0</td>
</tr>
<tr>
<td>S125</td>
<td>6.0</td>
<td>170.0</td>
<td>9.0</td>
<td>255.0</td>
<td>13.0</td>
<td>368.0</td>
</tr>
</tbody>
</table>

Air Flow to Atmosphere

<table>
<thead>
<tr>
<th>MODEL</th>
<th>100 PSIG CPM</th>
<th>(7.0 BARS) LPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>8.2</td>
<td>232.0</td>
</tr>
<tr>
<td>SQE</td>
<td>7.0</td>
<td>198.0</td>
</tr>
<tr>
<td>C125</td>
<td>19.0</td>
<td>538.0</td>
</tr>
<tr>
<td>S125</td>
<td>16.0</td>
<td>453.0</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>ACTUAL OUNCES</th>
<th>GRAMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>8.5</td>
</tr>
<tr>
<td>4</td>
<td>11.3</td>
</tr>
<tr>
<td>1.1</td>
<td>31.2</td>
</tr>
<tr>
<td>1.2</td>
<td>34.0</td>
</tr>
</tbody>
</table>
**MISCELLANEOUS PRODUCTS**

**VALVES/MANIFOLD/FLOW CONTROL/REGULATOR**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Fluorooelastomer Seals</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSR</td>
<td>NA</td>
<td>Self Relieving Regulator.</td>
</tr>
<tr>
<td>SC1</td>
<td>NA</td>
<td>Flow Control.</td>
</tr>
<tr>
<td>C125</td>
<td>Specify</td>
<td>Check Valve, 1/8-inch ports.</td>
</tr>
<tr>
<td>C1</td>
<td>NA</td>
<td>Check Valve, #10-32 ports.</td>
</tr>
<tr>
<td>S125</td>
<td>Specify</td>
<td>Shuttle Valve, 1/8-inch ports.</td>
</tr>
<tr>
<td>AM8</td>
<td>NA</td>
<td>8 Port Air Manifold.</td>
</tr>
</tbody>
</table>

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

**ELECTRIC STYLE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-2R-AR</td>
<td>2-Position Electric Switch (used with ESB).</td>
</tr>
<tr>
<td>ESB</td>
<td>Electric Switch Bracket.</td>
</tr>
</tbody>
</table>

**TAC, TAC², TAC³ FITTINGS/ACCESSORIES**

**ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-60</td>
<td>Bracket-Flat</td>
</tr>
<tr>
<td>8-600</td>
<td>Bracket-Angle</td>
</tr>
<tr>
<td>8-70</td>
<td>Bracket-Multiple</td>
</tr>
<tr>
<td>8-55A</td>
<td>Adapter for Cutler Hammer Electric Actuators</td>
</tr>
</tbody>
</table>

Order example: 8-600

**TAC, TAC², TAC³ FITTINGS**

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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UEF*</td>
<td>bag-10</td>
<td>Univ. Elbow Fitting</td>
</tr>
<tr>
<td>URTF*</td>
<td>bag-10</td>
<td>Univ. Running Tee Fitting</td>
</tr>
<tr>
<td>UTF*</td>
<td>bag-10</td>
<td>Univ. Tee Fitting</td>
</tr>
<tr>
<td>UXF*</td>
<td>bag-10</td>
<td>Univ. X Fitting</td>
</tr>
<tr>
<td>28-60A</td>
<td>ea</td>
<td>Cam Roller (For 34CH)</td>
</tr>
<tr>
<td>40-13*</td>
<td>bag-10</td>
<td>Hose Clamp-Sleeve for 1/4&quot; O.D. Hose</td>
</tr>
<tr>
<td>71-18</td>
<td>ea</td>
<td>Slug (For 34CH)</td>
</tr>
<tr>
<td>89-14*</td>
<td>bag-100</td>
<td>Gasket</td>
</tr>
<tr>
<td>93-18</td>
<td>ea</td>
<td>Set Screw (For 34CH)</td>
</tr>
<tr>
<td>95-27</td>
<td>ea</td>
<td>Screw, UEF &amp; UTF</td>
</tr>
<tr>
<td>97-21*</td>
<td>bag-10</td>
<td>Metering Screw</td>
</tr>
<tr>
<td>100-35*</td>
<td>bag-10</td>
<td>Lockwasher</td>
</tr>
<tr>
<td>110-21*</td>
<td>bag-10</td>
<td>Locknut</td>
</tr>
<tr>
<td>120-40</td>
<td>ea</td>
<td>Collar (For 34CH)</td>
</tr>
<tr>
<td>150-30A*</td>
<td>bag-10</td>
<td>Muffler #10-32</td>
</tr>
<tr>
<td>150-31A*</td>
<td>bag-10</td>
<td>Muffler #1/8 NPT</td>
</tr>
<tr>
<td>151-20</td>
<td>ea</td>
<td>Handy Wrench</td>
</tr>
</tbody>
</table>

*Order by Quantity of Bags Only
Order example: TF

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