**INTRODUCTION:**

Fillunger offers Right angle valves in both manual as well as electro-pneumatic versions. These are used in fore lines, roughing lines where low cost, reliable & compact sealing is required. Hydro-form bellows are used for sealing purpose.

Right Angle valve consists of body, plate, bonnet & actuator. The plate, which is driven by actuator, closes or opens one of the valve’s body ports.

The body is made out of single aluminum block eliminating weld-joint

**FEATURES:**

- Compact design
- High Vacuum series
- Manual or Electro-pneumatic (air-open & spring-close) actuators
- Hydro-form bellow actuator seal

**SPECIFICATIONS:**

- **Materials:**
  - Body : One piece aluminium
  - Plate and bonnet : AISI-SS304
  - Bellow : AISI-SS316
  - Plate & bonnet seal : Viton ® elastomer
- **Vacuum Range:** $1 \times 10^{-7}$ Torr (depending on the pumping system)
- **Leak Rate :** $< 2 \times 10^{-9}$ std cc/sec of Helium
- **Temperature Range:** $150^\circ$ C without handwheel ... manual actuation
  - $100^\circ$ C with handwheel ... manual actuation
  - $60^\circ$ C with solenoid ... electro-pneumatic actuation ;
  - if solenoid is remotely mounted, same temperature
  - range of manual actuation is applicable
- **End flanges:** KF 16, 25, 40 & 50 type
### RIGHT ANGLE VALVES

- **Electrical power requirements:** 230V A.C., 50Hz, 8Watts ... for electro-Pneumatic version.
- **Air pressure:** 5 to 7 bar ... for electro-pneumatic version.
- **Power loss:** Valve closes... for electro-pneumatic version.
- **Weights & Dimensions:** as per enclosed sheet.

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**H.FILLUNGER & CO PVT LTD** [VACUUM DIVISION]

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### RIGHT ANGLE VALVES

**KF-MANUAL ALUMINUM VERSION**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>ORDER CODE</th>
<th>FLANGE TYPE</th>
<th>A (inch)</th>
<th>L Min (inch)</th>
<th>L Max (inch)</th>
<th>P (inch)</th>
<th>Ø D (inch)</th>
<th>NET WT. (APPROX.) IN KG.</th>
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<tbody>
<tr>
<td>1</td>
<td>RVMQC25 - AL</td>
<td>KF 25</td>
<td>50 (1.97)</td>
<td>105 (4.13)</td>
<td>114 (4.48)</td>
<td>67 (2.64)</td>
<td>25 (0.98)</td>
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<td>2</td>
<td>RVMQC40 - AL</td>
<td>KF 40</td>
<td>65 (2.56)</td>
<td>114 (4.48)</td>
<td>127 (5.0)</td>
<td>85 (3.35)</td>
<td>40 (1.58)</td>
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<td>3</td>
<td>RVMQC50 - AL</td>
<td>KF 50</td>
<td>70 (2.76)</td>
<td>118 (4.65)</td>
<td>133 (5.24)</td>
<td>94 (3.70)</td>
<td>50 (1.97)</td>
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**RIGHT ANGLE VALVES**

**KF-ELECTRO PNEUMATIC**

**ALUMINUM VERSION**

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**Table: Right Angle Valves Specifications**

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<thead>
<tr>
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<tr>
<td>1</td>
<td>RVPQC25 - AL</td>
<td>KF 25</td>
<td>50 (1.97)</td>
<td>120 (4.72)</td>
<td>129 (5.08)</td>
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<td>KF 40</td>
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<td>134 (5.28)</td>
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<td>KF 50</td>
<td>70 (2.76)</td>
<td>128 (5.04)</td>
<td>142 (5.69)</td>
<td>94 (3.7)</td>
<td>50 (1.97)</td>
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*Compressed Air Connection*
RIGHT ANGLE VALVES
KF-MANUAL STAINLESS STEEL VERSION

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<th>Ø S</th>
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<tr>
<td>RVMQC25 - SS</td>
<td>KF 25</td>
<td>50</td>
<td>24 (0.95)</td>
<td>55 (2.17)</td>
<td>67 (2.64)</td>
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<td>RVMQC40 - SS</td>
<td>KF 40</td>
<td>65</td>
<td>41 (1.62)</td>
<td>70 (2.76)</td>
<td>85 (3.35)</td>
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<tr>
<td>RVMQC50 - SS</td>
<td>KF 50</td>
<td>70</td>
<td>50 (1.97)</td>
<td>89 (3.50)</td>
<td>94 (3.70)</td>
<td>107 (4.21)</td>
<td>15 (0.59)</td>
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## RIGHT ANGLE VALVES

**KF-ELECTRO PNEUMATIC**

**STAINLESS STEEL VERSION**

### RIGHT ANGLE VALVES

**KF-ELECTRO PNEUMATIC**

**STAINLESS STEEL VERSION**

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