Applications
The VV6 enables two flows in a hydraulic system to be directed alternately into a common service line. The flow with the highest pressure takes priority.

The valve is intended for use in load-signal systems and in pilot-operated systems that have two alternate operator's stations.

Design and function
The valve consists of a valve housing, a poppet and two valve seats. It has two inlets and one outlet.

The pressure differential that arises when oil flows through the valve pushes the poppet to the opposite inlet and blocks it, at the same time as the outlet is opened. The valve can only be used with the direction of flow going from the inlets to the outlet.

Technical data

Working pressure
Max. 250 bar

Recommended flow rate
Max. 20 l/min

Connections
All connections are available in two versions:
G-version (BSP pipe thread) for flat seal (type Tredo) according to ISO 228/1 and UN version for O-ring seal according to SAE J1926/1.

Weight
Approx. 0.4 kg

Hydraulic fluids
Best performance is obtained using mineral-base oil of high quality and cleanliness in the hydraulic system.

HLP hydraulic fluids (DIN 51524), automatic-gearbox oil type A and API CD engine oils can be used.

Synthetic, fire-resistant and environmentally friendly fluids can also be used. Please contact Parker for further information.

For best function, fluid viscosity should be between 15 and 45 mm²/s.

Filtration
Filtration should be arranged so that Target Contamination Class 20/18/14 according to ISO 4406 is not exceeded.

Temperature
Temperature range (fluid): -20 °C to +80 °C
Temperature range (ambient): -40 °C to +60 °C
Temperature change:
Max. 100 °C/s

General
The data given above is applicable at an oil temperature of 50 °C and viscosity of 30 mm²/s using mineral-base oil according to DIN 51524.

Advantages of VV6 shuttle valve
- Small dimensions, easy to install
- Rapid switching

The curves used in this publication are typical curves only. The manufacturer reserves the right to make modifications without prior notice.
**Ordering**

The VV6 can be ordered using a designation code or ordering number.

<table>
<thead>
<tr>
<th>Thread</th>
<th>Designation</th>
<th>Ordering No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/4</td>
<td>VV6G</td>
<td>8234 8902 70</td>
</tr>
<tr>
<td>UNF-9/16-18-2B</td>
<td>VV6U</td>
<td>8234 8902 71</td>
</tr>
</tbody>
</table>

**Pressure-drop characteristics for VV6**

**Hydraulic symbol for VV6**
### Europe

**Austria**  
Wiener Neustadt  
Tel: +43 (0)2622 23501  
Fax: +43 (0)2622 66212

**Belgium**  
Nivelles  
Parc Industrial Sud-Zone II  
Tel: +32 (0)67 280 900  
Fax: +32 (0)67 280 999

**Czech Republic**  
Prague  
Tel: +420 2 830 85 221  
Fax: +420 2 830 85 360

**Denmark**  
Ishøj  
Tel: +45 4356 0400  
Fax: +45 4373 8431

**Finland**  
Vantaa  
Tel: +358 (0)9 4767 31  
Fax: +358 (0)9 4767 3200

**France**  
Contamine-sur-Arve  
Tel: +33 (0)450 25 80 25  
Fax: +33 (0)450 03 67 37

**Germany**  
Kaarst  
Tel: +49 (0)2131 4016 0  
Fax: +49 (0)2131 4016 9199

**Hungary**  
Budapest  
Tel: +36 (0)61 220 4155  
Fax: +36 (0)61 422 1525

**Ireland**  
Clonee  
Tel: +353 (0)1 801 4010  
Fax: +353 (0)1 801 4132

**Italy**  
Corsico (MI)  
Tel: +39 02 45 19 21  
Fax: +39 02 4 47 93 40

**The Netherlands**  
Oldenzaal  
Tel: +31 (0)541 585000  
Fax: +31 (0)541 585459

**Norway**  
Ski  
Tel: +47 64 91 10 00  
Fax: +47 64 91 10 90

**Poland**  
Warsaw  
Tel: +48 (0)22 863 49 42  
Fax: +48 (0)22 863 49 44

**Portugal**  
Leca da Palmeira  
Tel: +351 22 9997 360  
Fax: +351 22 9961 527

**Slovakia**  
Ref. Czech Republic

**Spain**  
Madrid  
Tel: +34 91 675 73 00  
Fax: +34 91 675 77 11

**Sweden**  
Spånga  
Tel: +46 (0)8 597 950 00  
Fax: +46 (0)8 597 951 10

**United Kingdom**  
Watford (industrial)  
Tel: +44 (0)1923 492 000  
Fax: +44 (0)1923 256 059  
Ossett (mobile)  
Tel: +44 (0)1924 282 200  
Fax: +44 (0)1924 282 299

### International

**Australia**  
Castle Hill  
Tel: +61 (0)2-6634 7777  
Fax: +61 (0)2-9899 6184

**Canada**  
Milton, Ontario  
Tel: +1 905-693-3000  
Fax: +1 905-876-0788

**China**  
Beijing  
Tel: +86 10 6561 0520  
Fax: +86 10 6561 0526

**Asia Pacific Group**  
Hong Kong, Kowloon  
Tel: +852 2428 8008  
Fax: +852 2425 6896

**India**  
Mumbai  
Tel: +91 22 7907081  
Fax: +91 22 7907080

**Japan**  
Tokyo  
Tel: +(81) 3 6408 3900  
Fax: +(81) 3 5449 7201

**Latin America Group**  
Brazil  
Tel: +55 12 3954-5100  
Fax: +55 12 3954-5266

**South Africa**  
Kempton Park  
Tel: +27 (0)11-392 7280  
Fax: +27 (0)11-392 7213

**USA**  
Cleveland (industrial)  
Tel: +1 216-896-3000  
Fax: +1 216-896-4031  
Lincolnshire (mobile)  
Tel: +1 847-821-1500  
Fax: +1 847-821-7600

---

Parker Hannifin is the world’s premier supplier of motion and control systems and solutions, with sales and manufacturing facilities throughout the world. For product information and details of your nearest Parker sales office, visit us at [www.parker.com](http://www.parker.com) or call free on 00800 2727 5374.