

# VFD 50 Series

## Variable Priority Flow Dividers

Priority Type Flow Dividers split a single input (IN) flow into a 'Priority' (REG) flow and an excess or 'By-Pass' (BP) flow which can be returned directly to the oil reservoir or used to power a second system. In many instances this dispenses with the need for another pump to operate a second system.

### Specifications

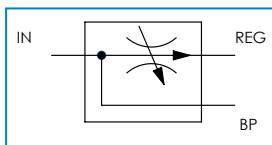
<b>Maximum Pressure:</b>	Up to 250 bar, 3,625 psi
<b>Total Flow:</b>	Up to 50 L/min, 13.2 US gpm
<b>Maximum Priority (REG) Flow:</b>	Up to 30 L/min, 7.9 US gpm
<b>Porting:</b>	BSPP, NPT, Manifold Mount
<b>Material:</b>	Steel components in cast SG Iron body. Aluminium knob
<b>Weight:</b>	Typically 0.75 kg, 1.65 lbs
<b>Mounting:</b>	<b>Thread Ports:</b> 2 Bolts - M5 or 10-32
	<b>Manifold:</b> 3 Bolts - M5 or 10-32

Make it **BLUE**

### Features

- Clearly marked single turn hand-dial permits fast visual adjustments to predetermined 'Priority' flow and fast easy adjustment of 'Priority' circuit to meet varying requirements.
- Pressure compensated permitting both 'Priority' and 'By-Pass' flows to be used simultaneously at varying pressures without effecting the Priority flow rate.

### Symbol:



## Sales Order Code

Please contact our technical sales team to discuss any special order requirements.

TYPICAL CODE	DESCRIPTION	SEE TABLE	YOUR CODE
VFD50	Valve Type	-	
15	Priority (REG) Flow Capacity	Table 1	
T	Porting	Table 2	

**Table 1: Priority (REG) Flow Capacity\***

CODE	FLOW SIZE	
	L/min	US GPM
15	0 - 15	0 - 3.9
30	0 - 30	0 - 7.9

Note:

\* Input flow will affect the maximum seen priority flow capacity. To achieve the given flow capacity, the input flow needs to be greater.

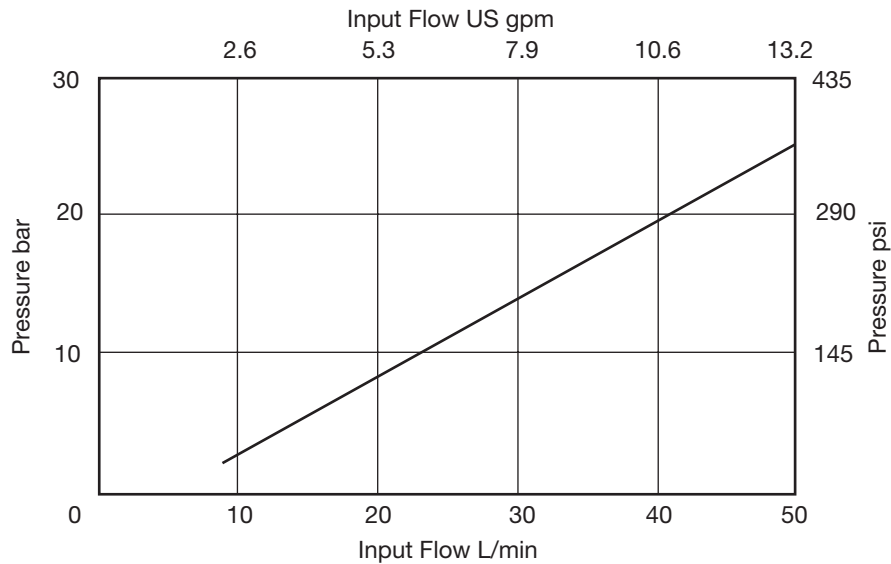
**Table 2: Porting\*\***

CODE	PORT THREAD TYPE
T	3/8" BSPP
M	Manifold Mount
A	3/8" NPTF

\*\* Other threads available to special order

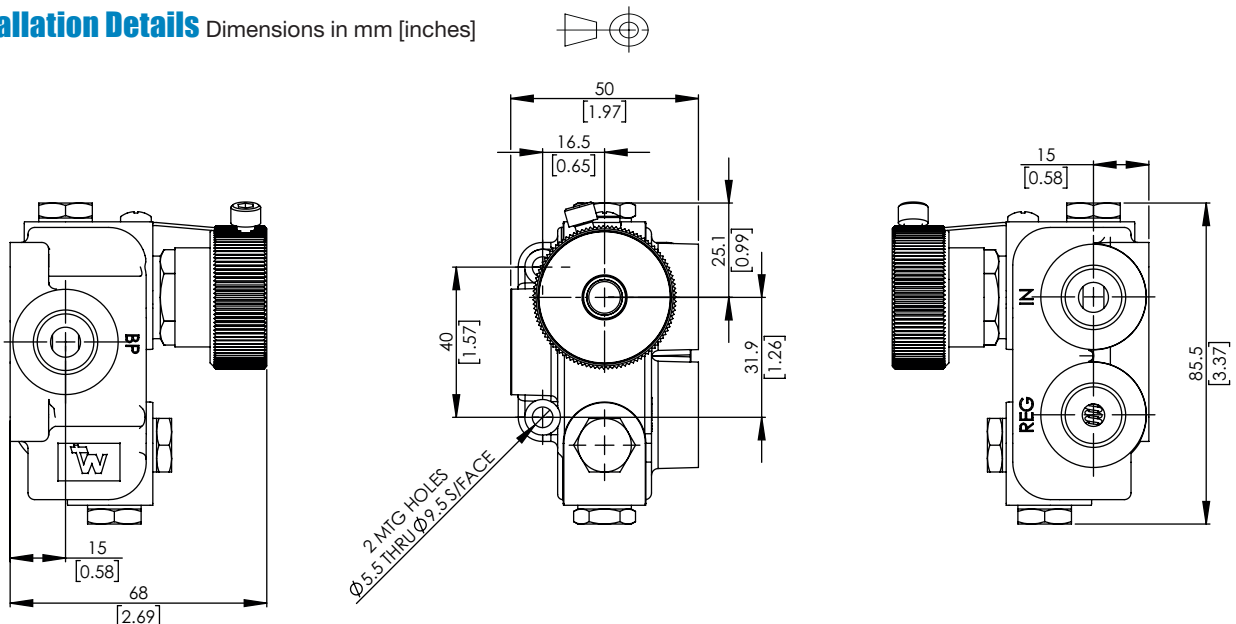
## Typical Pressure Drop

All tests completed using ISO32 Mineral oil at 50 degrees C (21 cSt)

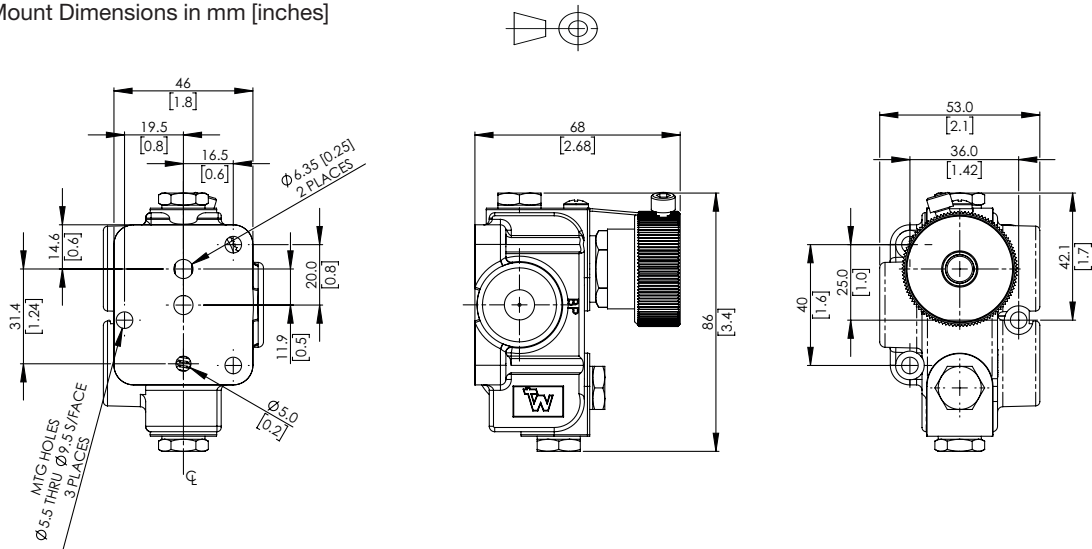


## Installation Details

Dimensions in mm [inches]



Manifold Mount Dimensions in mm [inches]

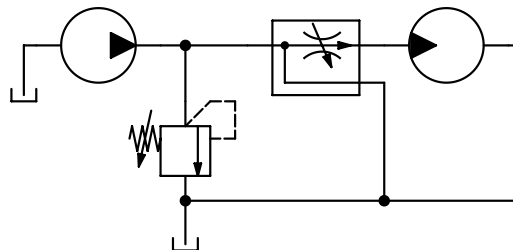


**Circuit Suggestions**

**1. Variable Speed of Hydraulic Motor Drive on Agricultural Tractor**

This circuit gives the capability to vary the speed of a hydraulic motor as required. Also, for a given control knob setting, the hydraulic motor speed stays constant regardless of the tractor speed.

**Circuit 1**

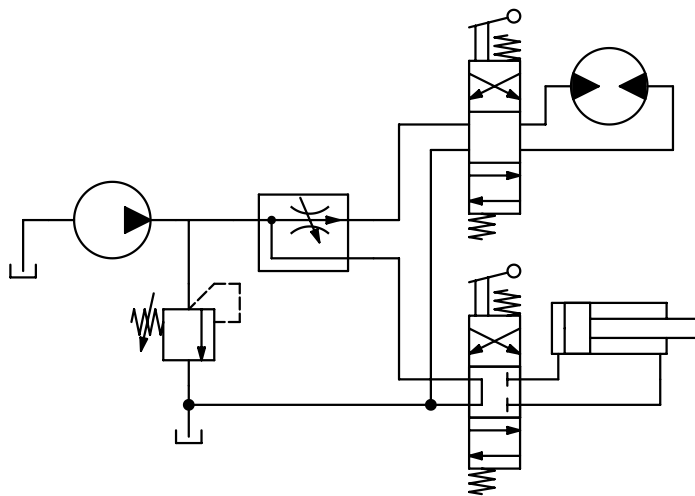


**Circuit Suggestions**

**2. Two Circuits From a Single Pump**

Using only one pump, this circuit gives speed control of the hydraulic motor and powers a hydraulic cylinder. Each function can be used either simultaneously or independently because pressure variations between priority (REG) and By-Pass (BP) flows do not effect the flow on the priority (REG) circuit.

**Circuit 2**

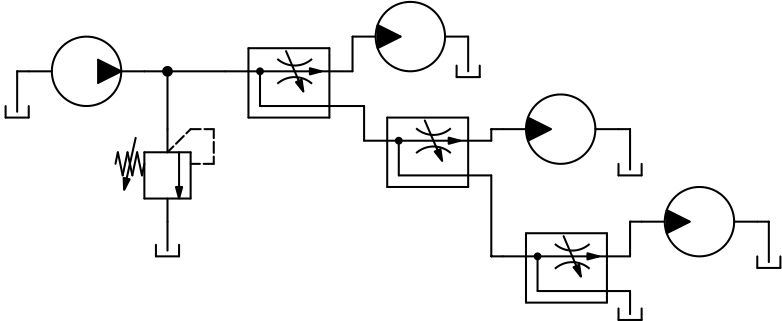


### Circuit Suggestions

#### 3. Multiple Circuits From a Single Pump

Using one pump, this circuit gives independently variable speed drive from three hydraulic motors. Motors can be used simultaneously or independently.

Circuit 3



Webtec reserve the right to make improvements and changes to the specification without notice