

# FV 120 Series

## Fixed Priority Flow Dividers

Priority Type Flow Dividers split a single input flow into a 'Priority' (regulated) flow and a 'By-Pass' (excess) flow which can be returned directly to the oil reservoir or used to power a second system. This often dispenses with the need for another pump to operate a second system.

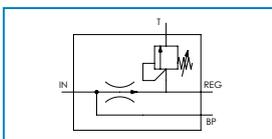
A common application on mobile machinery is to use the 'Priority' (regulated) flow for power steering and the 'By-Pass' (excess) flow for an implement or lift circuit. This ensures the power steering is satisfied first to keep the steering speed constant.

### Specifications

<b>Maximum Rated Pressure:</b>	Up to 420 bar, 6000 psi
<b>Maximum Flow Capacity:</b>	76 L/min, 20 US gpm
<b>Porting:</b>	BSPP, SAE
<b>Material:</b>	Steel components in cast iron body
<b>Weight:</b>	1.6 kg, 3.5 lb
<b>Mounting:</b>	2 Bolts, M8 or 5/16"

### Symbol:

e.g. FV120-3-H-1



Make it **BLUE**

### Features

- 'Priority' flow rate is preset in factory to customer specifications at any value between 3.78 L/min and 34.1 L/min in increments of 3.78 L/min. Flow through the 'Priority' port will remain constant at the pre-set value as long as input flow equals or exceeds the Priority flow value.
- Pressure compensated permitting both 'Priority' and 'By-Pass' flows to be used simultaneously at varying pressures without effecting the 'Priority' flow rate.
- Optional built-in pressure relief valve protects the 'Priority' circuit from excess pressure and is adjustable from 34.5 bar to 210 bar (Factory set 82.7 bar unless otherwise specified).

## Sales Order Code

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

TYPICAL CODE	DESCRIPTION	SEE TABLE	YOUR CODE
FV120	Valve Type	-	FV120
3	Priority Flow Setting	Table 1	
H	Porting	Table 2	
1	Relief Valve	Table 3	
-	Relief Valve Setting*	-	

\*Leave blank for standard FV120 Valve. Unless otherwise specified, relieve valve factory set to 82.7 bar

**Table 1: Priority Flow**

CODE	FLOW AT PRIORITY PORT	
	L/min	US gpm
1	3.78	1.0
2	7.57	2.0
3	11.4	3.0
4	15.1	4.0
5	18.9	5.0
6	22.7	6.0
7	26.5	7.0
8	30.3	8.0
9	34.1	9.0
A - Z	Any Non Standard Option	

**Table 2: Porting**

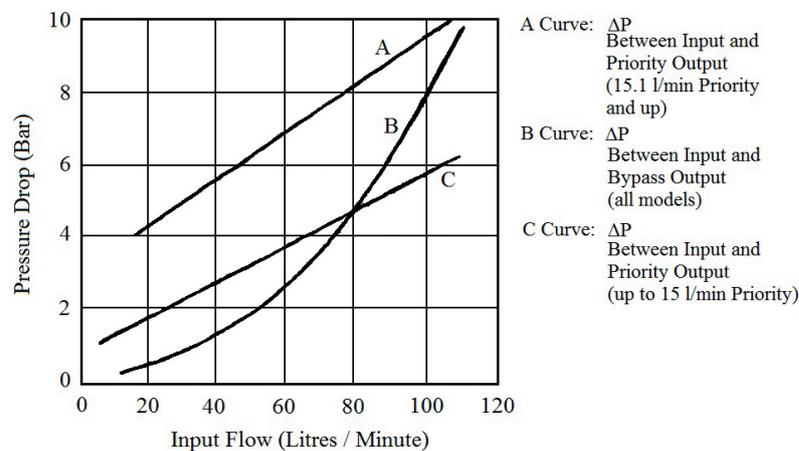
CODE	INLET AND BYPASS PORT	PRIORITY PORT	RELIEF PORT
H	1/2" BSPP	3/8" BSPP	3/8" BSPP
F	7/8" -14UN #10 SAE ORB	9/16" -18UN #6 SAE ORB	9/16" -18UN #6 SAE ORB

**Table 3: Relief Valve**

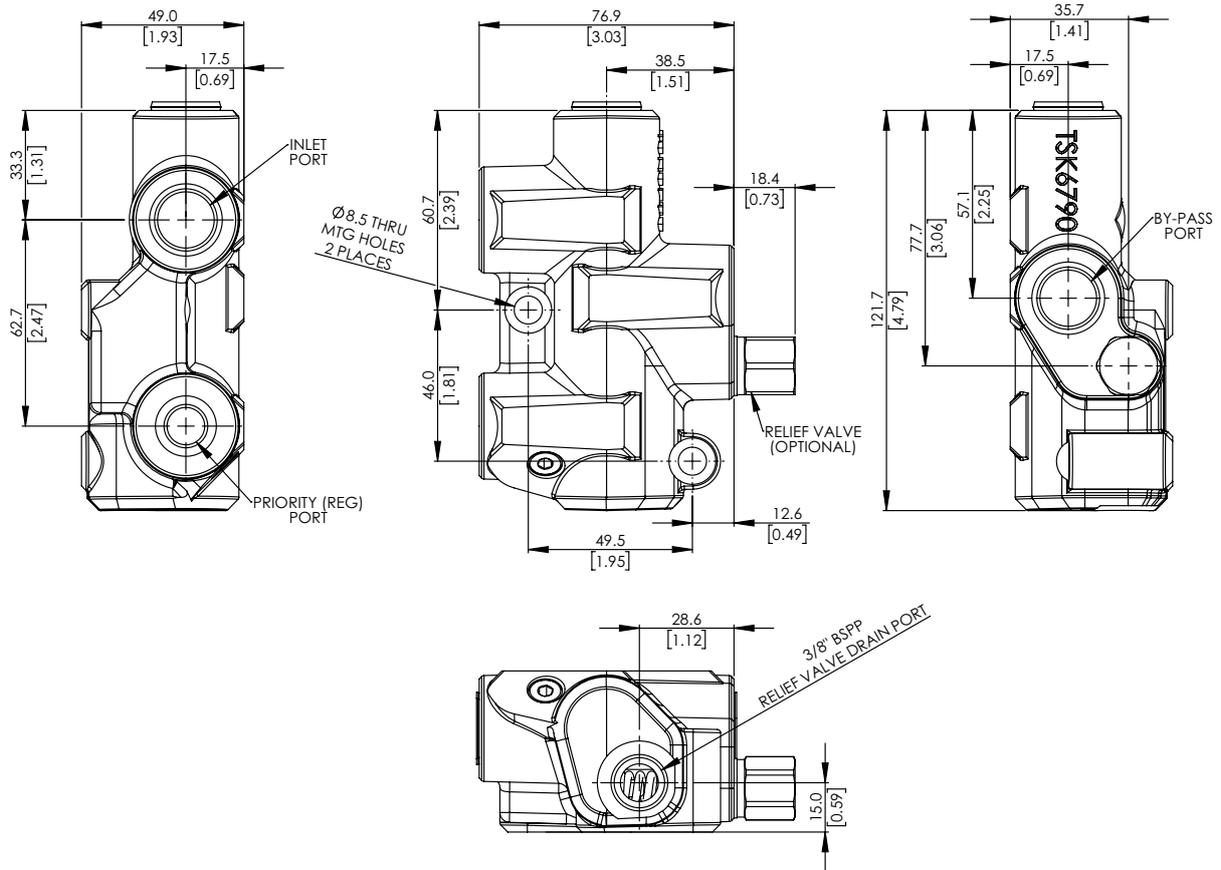
CODE	DESCRIPTION
0	Without Relief Valve
1	With Relief Valve (Standard Setting)
A - Z	With Relief Valve (Customer Setting)

## Typical Pressure Drop

All tests completed using ISO32 Mineral oil at 49 degrees C (27.4 cSt)



# Installation Details Dimensions in mm [inches]



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