

VFD120 Series

Variable Priority Flow Dividers



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Aimed at mobile and industrial applications the VFD120 can be used for controlling hydraulic motor and cylinder speeds by manually adjusting the flow rate.

Variable priority flow dividers split a single input (P) 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. This is possible due to the valve's adaptive pressure compensation characteristics meaning both the priority and by-pass flows can be used to drive separate circuits, even under varying loads. In many instances this dispenses with the need for another pump to operate a second system.

The VFD120 design has also been optimised to reduce energy wastage by minimising the pressure losses across the valve, resulting in a significant reduction in running costs.

Specifications

Maximum Pressure:
Up to 420 bar, 6000 psi

Total flow capacity:
120 lpm, 32 gpm

Regulated flow capacity:
See Table 2, ordering codes

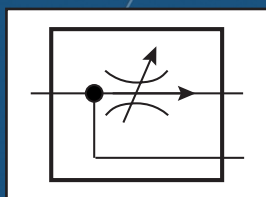
Porting:
See Table 3, ordering codes

Material:
Steel components in cast Ductile Iron body painted black; aluminium knob

Weight:
2.0 Kg, 4.4 lbs

Mounting:
Two bolt - M8 or 5/16"

Symbol



Features

- Clearly marked single-turn hand dial permits fast visual adjustments to pre-determined 'Priority' flow.
- Pressure compensated permitting both 'Priority' and 'By-Pass' to be used simultaneously at varying pressures without affecting the 'Priority' flow rate.
- Anti-tamper locknut option available. Contact Sales Office for more information.
- Reverse flow capable (Depending upon control knob position) Contact Sales office for more information.



Ordering Codes

Typical Code

VFD120

RD

120

J

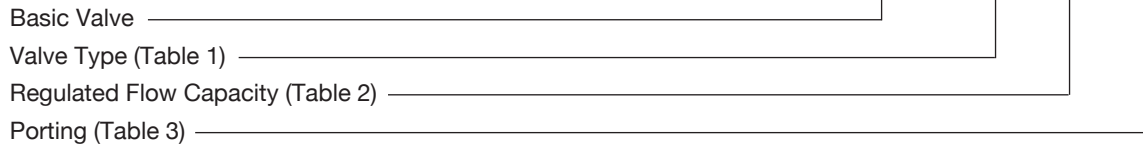


Table 1: Valve Type

Code	Description
RD	Standard
LN*	Lock Nut Version

Table 2: Regulated Flow (gpm refers to US gpm)

Code	Regulated Flow
030	0 - 11 lpm (3.0 gpm)
050	0 - 19 lpm (5.0 gpm)
080	0 - 30 lpm (8.0 gpm)
120	0 - 45 lpm (12.0 gpm)
160	0 - 60 lpm (16.0 gpm)
200	0 - 76 lpm (20.0 gpm)
250	0 - 95 lpm (25.0 gpm)
Use for Locknut version only	
X??*	?? lpm

* Set to 47 lpm unless otherwise stated.

For flows above 95 lpm, see VFD190 bulletin and contact sales for more information.

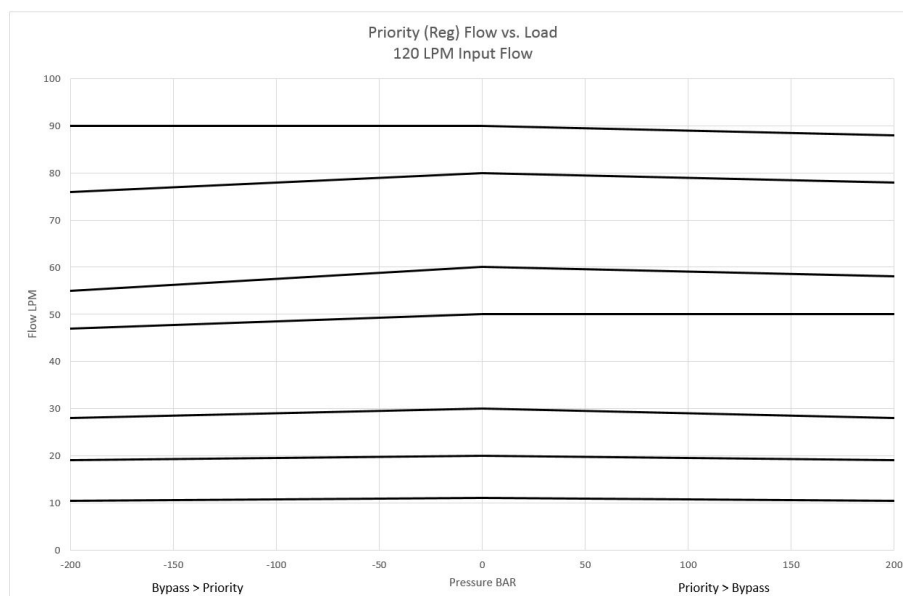
Table 3: Porting*

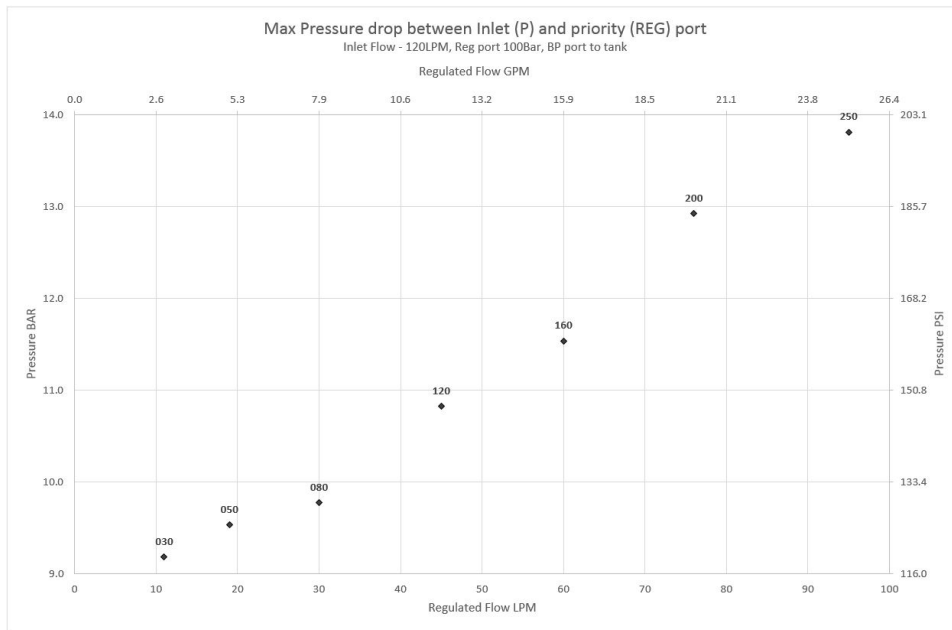
Code	Port Threads
H	1/2" BSPP
J	3/4" BSPP
G	1-1/16" -12UN #12 SAE ORB
A	3/4" NPTF *1
M	M22 x 1.5

Note: M22 and 1/2" BSPP threads only available in flow codes 030 to 120

* Other threads available to special order.

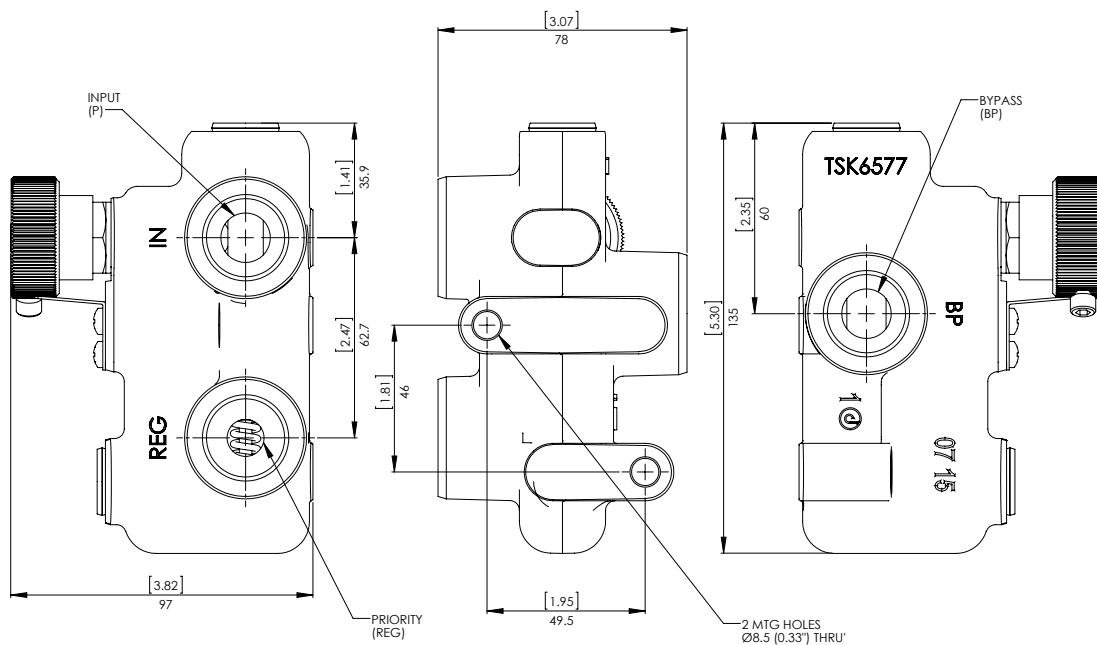
*1 All NPTF threads are to ANSI B1.20.3 -1976 Class 1. As stated in the standard it is recommended that "sealing is accomplished by the means of a sealant applied to the thread". NPT fittings may also be used to connect to NPTF ports (also with a sealant applied to the thread)



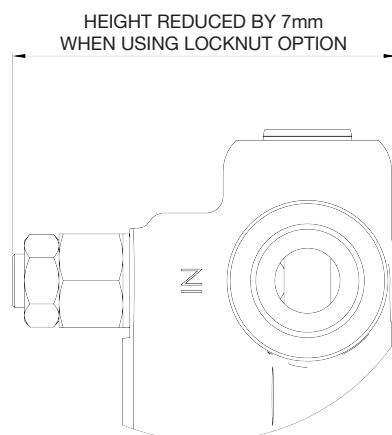


Installation Details

Dimensions in millimetres



LN (Anti-Tamper Locknut Option)



Change RD to LN when ordering
 State flow setting required otherwise
 factory setting used.