VFD190 Series Variable Priority Flow Dividers

Aimed at mobile and industrial applications the VFD190 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 VFD190 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

Working Pressure (Max): Up to 420 bar (6000 psi)

Total flow capacity: 190 lpm (50 USgpm)

Regulated flow capacity: See Table 2, ordering codes

Porting:

See Table 3, ordering codes

Material:

Steel components in cast SG iron body painted black; aluminium knob

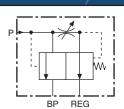
Weight:

3.5 to 4.0Kg (7.7 to 8.8lbs)

Mounting:

Two bolt - M8 or 5/16"

Symbol







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Features

- Clearly marked singleturn hand dial permits fast visual adjustments to predetermined 'Priority' flow and fast easy adjustments of 'Priority' circuit to meet varying requirements.
- Pressure compensated permitting both 'Priority' and 'By-Pass' to be used simultaneously at varying pressures without affecting the 'Priority' flow rate.
- Needle Valve can be pulled back to allow intermittent reverse flow
- Anti-tamper locknut option available for all models, Contact Sales Office for more information.



Ordering Codes	Typical Code	VFD190	RD	250	B3
Basic Valve —					
Valve Type (Table 1)					
Regulated Flow Capacity (Table 2)					
Porting (Table 3)					

Table 1: Valve Type

Code	Description
RD	Standard
LN	Lock Nut Version

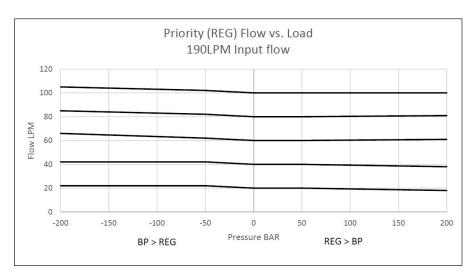
Table 2: Regulated Flow Capacity

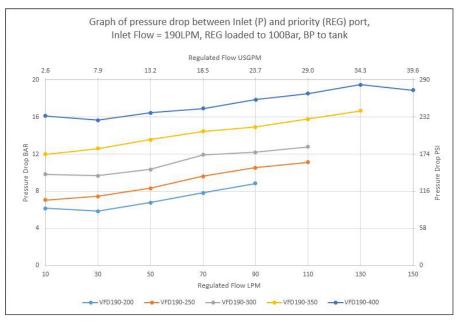
Code	Nominal Regulated Flow	Nominal Input Flow
200	0 - 76 lpm (20.0 US gpm)	95 lpm (25 US gpm)
250	0 - 95 lpm (25.0 US gpm)	120 lpm (32 US gpm)
300	0 - 114 lpm (30 US gpm)	143 lpm (37 US gpm)
350	0 - 132 lpm (35 US gpm)	165 lpm (44 US gpm)
400	0 - 150 lpm (40 US gpm)	190 lpm (50 US gpm)

Note: Utilizing a higher or lower Input flow than stated will affect the nominal regulated flow range

Table 3: Porting

Code	Port Thread	
В3	1" BSPP	
S3	1-5/16" -12UN #16 SAE ORB	

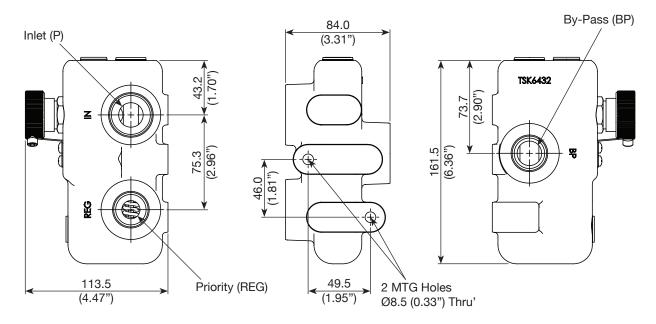




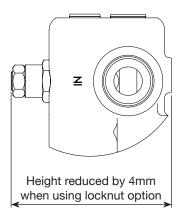
Installation Details

Dimensions in millimetres (Inches)

VFD190 RD



VFD190 LN



Anti-tamper locknut option

Change RD to LN when ordering State flow setting required