ENGINEERING TOMORROW

Data Sheet

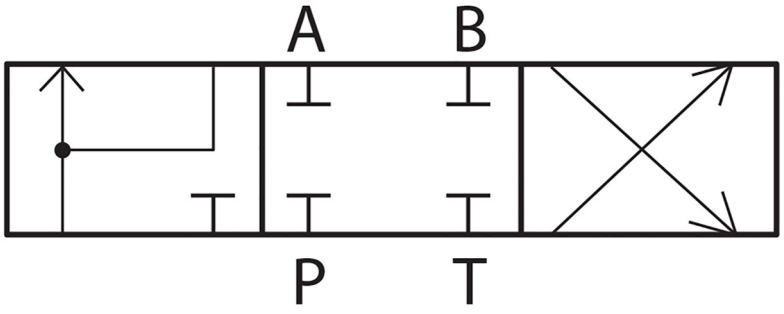
Spool
PVBS 32

Regenerative spool: 11113440

To meet the Tier 4 regulations, continuous need of HP savings, and to meet the demand on high efficiency and high flow demands, a regenerative PVBS spool has been developed.

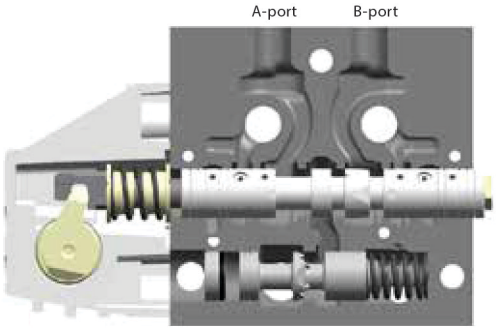
The spool is regenerative in A-direction, meaning the oil returning in the B-port will be led to A-port to increase portflow and to save pump flow.

The spool could be used on selected cylinder functions with limited power demands, such as forrest machinery and truck mounted cranes where tool weight and gravity helps the cylinder move in one direction.



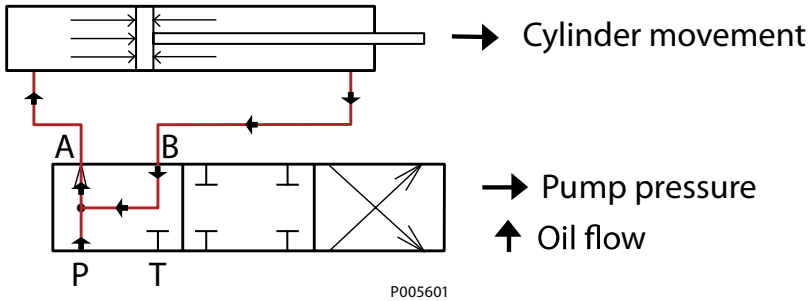
Features

- P-B 65 l/min
- P-A Regen, max flow is depending on system setup
- Prepared for PVB modules with LS A/B shuttle valve
- No float position
- Deadband ±1.5 mm
- Can only be used in different cylinder applications
- Other features available on a request



Cut-away of PVB 32 module with PVBS regenerative spool, shown in regenerative position, oil returning in B port will be lead to A port, to increase port flow, and to save pumpflow.

Comprehensive technical literature online at *powersolutions.danfoss.com*



Things to consider when using a regnerative spool in a hydraulic system:

- Can only be used in cylinder-applications
- Regenerative port must be connected to the head-side of the cylinder
- Cylinder ratio will determine how much flow will be led from B to A port
- Same pressure on both head and rod side of cylinder; the rod area is most effective
- System pressure may raise to max pressure in regenerative direction due to he small effective cylinderarea.

Technical data

Spool travel	A-direction	5 mm [0.197 in][1]
	B-direction	7 mm [0.275 in]
Float position spool	No Float Position	
Dead band	Standard	± 1.5 mm [±0.059 in]

[1] Mechanical limitation in spool

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