

Data Sheet

PVB 16 Non-compensated and Compensated Basic Module for PVG 16



PVG 16 – Proportional Valve Group

The PVG 16 is the latest member of the PVG family of valves. The PVG portfolio now comprises PVG 16, 32, 100, and 120 – providing flow up to 240 l/min.

A common feature is the modular build concept. This enables engineers to combine stacks of configurable sections across the entire PVG family, making it possible to build up a valve group that meets precise requirements. Furthermore, the compact external dimensions of the valve remain unchanged, no matter what combination is specified.

The PVG 16 is a hydraulic, load-sensing proportional valve, designed to give maximum flexibility in the design and build concept.

PVB 16 – Basic Module for PVG 16

The PVB 16 is available as a compensated basic module giving the features of load-independent flow control:

- Oil flow to an individual work function is independent of the load pressure of this function
- Oil flow to one function is independent of the load pressure of other functions.

The PVB 16 employs the same compensation principle as the proven technology of the PVB 32 - the compensator maintains a constant pressure drop across the main spool (PVBS).

Available versions

Non-compensated PVB 16

- Basic module
- Basic module with P-channel check valve
- Basic module with facilities for shock and anti-cavitation valves (PVL/PVLA)
- Basic module with both P-channel check valve and facilities for shock and anti-cavitation valves (PVL/PVLA)

Compensated PVB 16

- Basic module
- Basic module with facilities for shock and anti-cavitation valves (PVL/PVLA)
- Basic module with one common LS for port A and port B

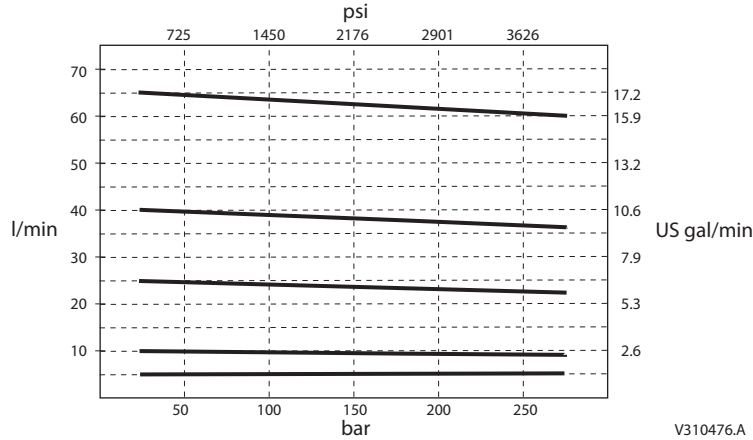
You can combine any version of the flow regulating main spool (PVBS) with the PVB. Work port threads: 3/8" BSP or 3/4" - 16 UNF (SAE-8)

Code numbers

PVB 16 Non-compensated	3/8" BSP	3/4" - 16 UNF
basic module	11101421	11101423
with P-channel check valve	11106801	11106797
with facilities for shock and anti-cavitation valves (PVL/PVLA)	11106754	11106755
with P-channel check valve and facilities for shock and anti-cavitation valves (PVL/PVLA)	11101424	11101425

PVB 16 Compensated	3/8" BSP	3/4" - 16 UNF
basic module	11130976	11130977
with facilities for shock and anti-cavitation valves (PVL/PVLA)	11130978	11130979
with one common LS for port A and port B	11130982	11130983

Load-independent oil flow characteristic, pressure-compensated PVB

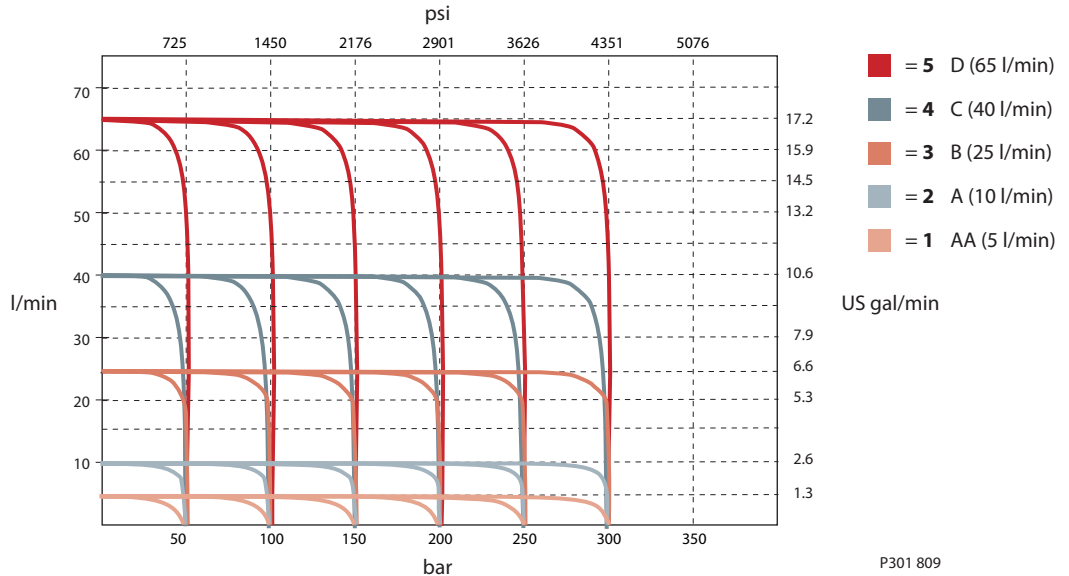


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LS pressure limiting:

The graphs below show the characteristic of the LS relief valve in various pressure settings (flow as function of pressure).

The letters AA, A, B, C and D denotes the spool flow sizes ranging from 5 l/min to 65 l/min [from 1.32 to 17.17 US gal/min]. All tests are performed with Tellus 32 @ 21 cSt (21 mm²/s).



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