ENGINEERING TOMORROW

Data Sheet

Module with Shock Valve
PVBZ

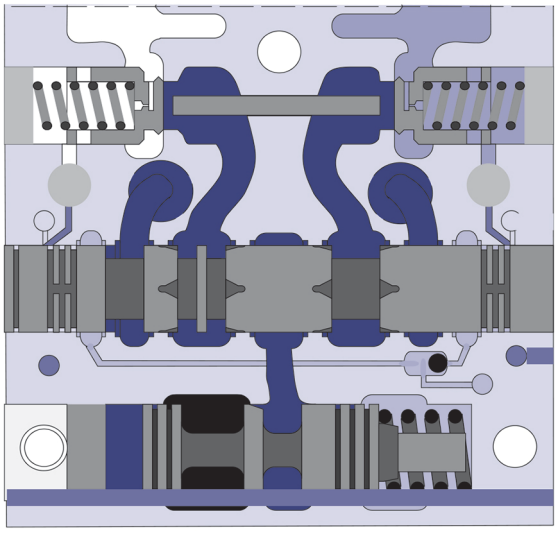
The PVG 32 valve was originally launched on the market in 1988 with a range of high performance electrical actuators.

In the late nineties, the program was extended to also include new features such as low leak ports, special inlet sections and special electrohydraulic actuator options.

The special PVBZ load compensated module was developed for applications, where integrated pilot operated check valves in the work ports are required to limit the port leakage.

The newest of the PVBZ have integrated shock valve for removing any transient pressure spikes generated by the load.

The new PVBZ basic module can be mixed with basic modules PVB (with additional tank line T0) and offers the following features.



V310 330A

Features

- Integrated shock/anti-cavitation valve (A- and B- port)
- Pilot operated check (POC) valves in A/B ports
- Load independent module (build in compensator)
- Separated pilot pressure tank line (T0)
- Can be combined with standard PVB modules (with T0)
- BSP/UNF port thread options

Available spools

- Only main spools with check valves can be used
- 4/3 versions in the flow range from 5–100 l/min
- 4/4 versions with float in the flow range from 5–100 l/min
- option mounted PVE/PVM not possible

PVBZ with shock valve code numbers

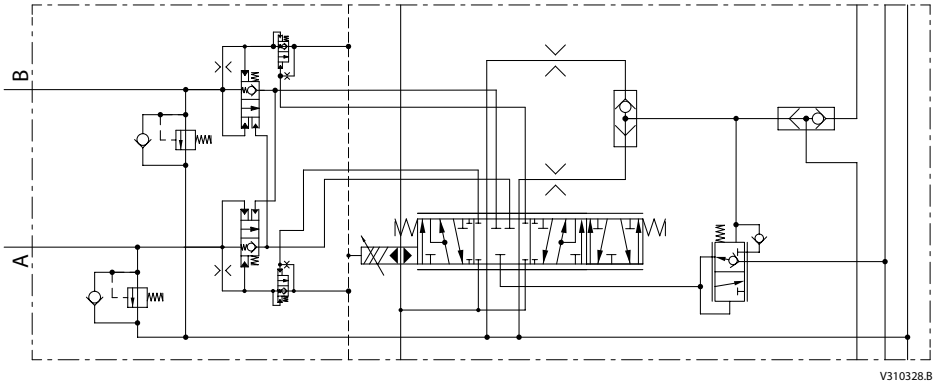
Port Description	Code No.
G ½ BSP	11018390
7/8 - 14 UNF	11018391

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

Technical Specifications

Max. pressure	Port P continuous, Port A/B	350 bar [5076 psi]
	Port T static/dynamic	25/40 bar [362/580 psi]
Oil flow, rated	Port A/B and P	180 l/min [47 US gal/min]
	Port A/B max. recommended	100 l/min [26 US gal/min]
Spool travel	Standard	±7 mm [±0.28 in]
	Proportional range	±5 mm [±0,22 in]
	Float position	±7.5 mm [±0.30 in]
Max. internal leakage at 200 bar [2900 psi], 21 mm^2/s A/B→T / PO check valve and shock valve		6 cm^3/min [0.36 in^3/min]
Oil temperature (inlet)	Recommended	30 → 60°C [86 → 140°F]
	Minimum	-30 °C [-22 °F]
	Maximum	90 °C [194 °F]
Ambient temperature		-30 → 60 °C [-22 → 140 °F]
Oil viscosity	Operating range	12 - 75 mm^2/s [65 - 347 SUS]
	Minimum	4 mm^2/s [39 SUS]
	Maximum	460 mm^2/s [2128 SUS]
Filtration, max. contamination (ISO 4406)		18/16/13

Schematic



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