Data Sheet

SAUER DANFOSS

Basic module type PVBZ - HD

(Hitch Double-acting)

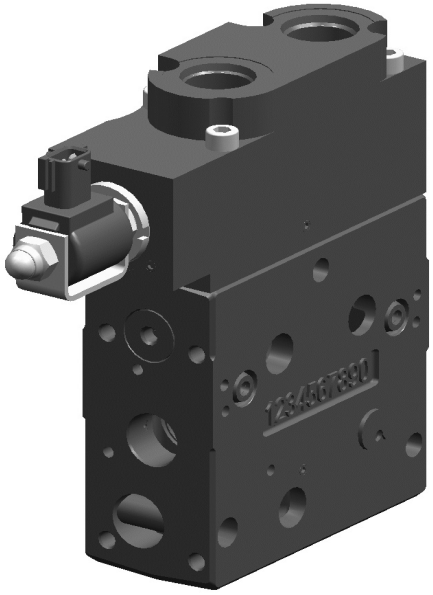
INTRODUCTION

The PVG 32 valve was originally launched on the market in 1988 with a range of high performance electrical actuator options.
This special PVBZ-HD is the more advanced alternative to the PVBZ-HS (Hitch Single-acting). With this valve is it possible to upgrade the hitch application to double-acting cylinders, but possible to operate them either as double-acting or single-acting.
This is possible due to an electric mode-shift between single and double-acting operation, and combines thereby the possibility of new functions and upgraded performance, in combination with the well known behavior of the single acting hitch valve for filed operations.

Applications examples are:

- Rear-Hitch on tractors
- Front-Hitch on tractors
- Headers on combines & harvesters

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



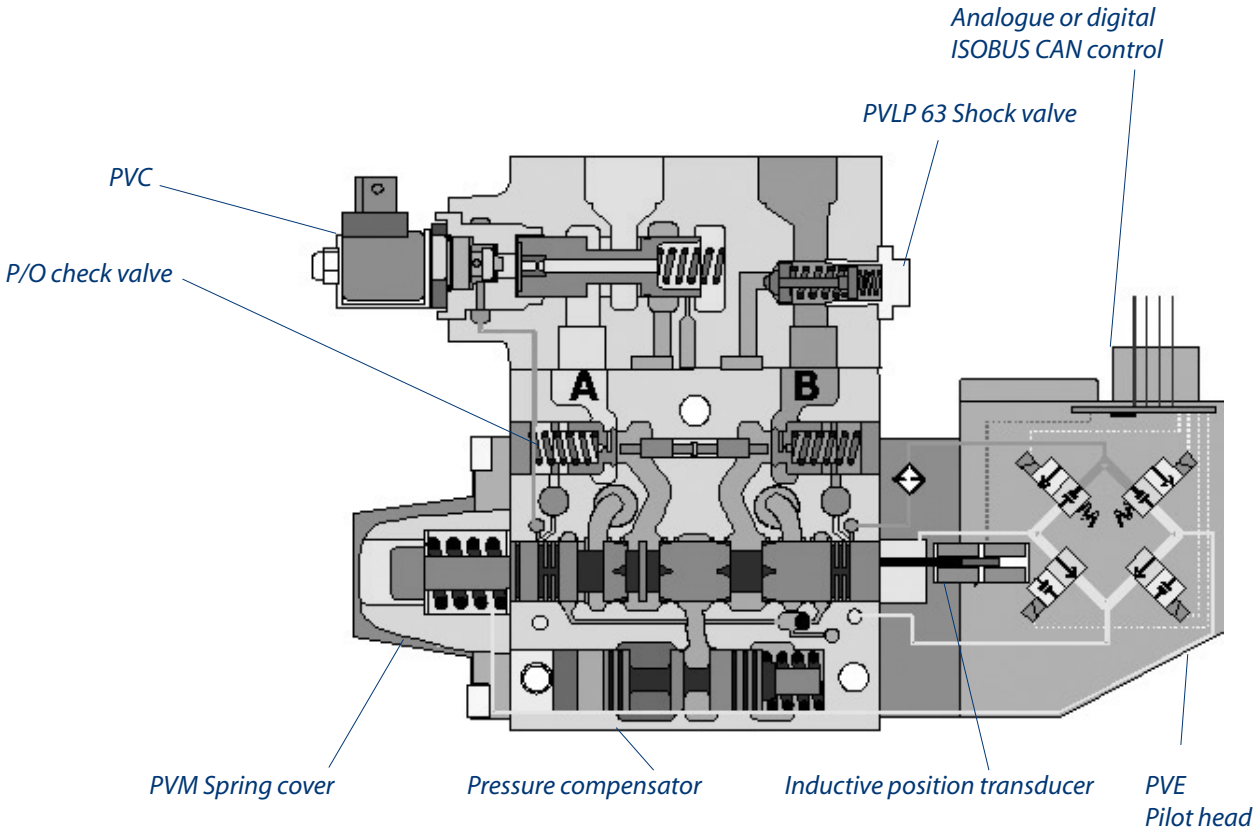
Features

- Low leakage work port (B port)
- Standard 4/3 spools
- Standard 4/4 float spools
- Electrical mode shift in to pure 3/3 single acting functionality of a double-acting cylinder
- Integrated PVLP 63 shock/anti cavitation valve (B-port)

Local address:

11035599 • Rev AA • Oct-2007

PVG-32 hitch double-acting valve module



Max. pressure	Port P continuous	250 bar	[3625 psi]
	Port A/B	280 bar	[4061 psi]
	Port T, static/dynamic	25 bar/40 bar	[365/580 psi]
Oil flow, rated	Port P	140/230 l/min	[37/61 US gal/min]
	Port A/B, with press. comp.	100 l/min	[26.4 US gal/min]
Spool travel, standard		± 7 mm	[±0.28 in]
Spool travel, float position spool	Proportional range	± 5.5 mm	[±0.22 in]
	Float position	7.5 mm	[±0.30 in]
Dead band, flow control spool	Standard	± 0.8 mm	[±0.03 in]
Max. internal leakage at 150 bar [2175 psi] and 21 mm²/s [102 SUS]	A → T,	25 cm³/min	[1.53 in³]
	B → T, without shock valve:	1.0 cm³/min	[0.06 in³/min]
	B → T, with shock valve:	6.0 cm³/min	[0.37 in³/min]
Oil temperature (inlet temperature)	Recommended temperature	30 → 60°C	[86 → 140°F]
	Min. temperature	-30°C	[–22°F]
	Max. temperature	+90°C	[194°F]
Ambient temperature		-30 → +60°C	[–22 → +140°F]
Oil viscosity	Operating range	12 - 75 mm²/s	[65 - 347 SUS]
	Min. viscosity	4 mm²/s	[39 SUS]
	Max. viscosity	460 mm²/s	[2128 SUS]
Filtration	Max. contamination (ISO 4406)	19/16	19/16