ENGINEERING TOMORROW

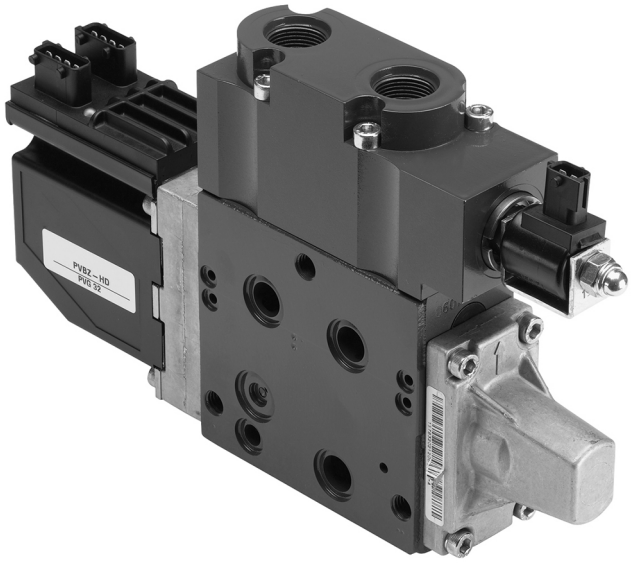
Data Sheet

Double-Acting Valve
PVBZ-HD

Unique Flexibility

We introduced to the market our first PVG 32 valve two decades ago with a range of high performance electrical actuator options.

The two valve options included in the Danfoss hitch system are the PVBZ-HS single-acting and the PVBZ-HD double-acting valves. ThePVBZ-HD matches the market standard whereby implements are raised hydraulically and lowered only by the pull of their own weight, thePVBZ-HD has the unique ability to raise, lower and press down.



Best Performance

The benefits of the PVBZ-HD reflect another departure from old hitch norms – increased comfort when attaching implements due to the same speed up and down and safer detachment of heavy implements from the driver's seat. Once in work mode, the double-acting valve switches automatically over to a single-acting operation for normal field performance.

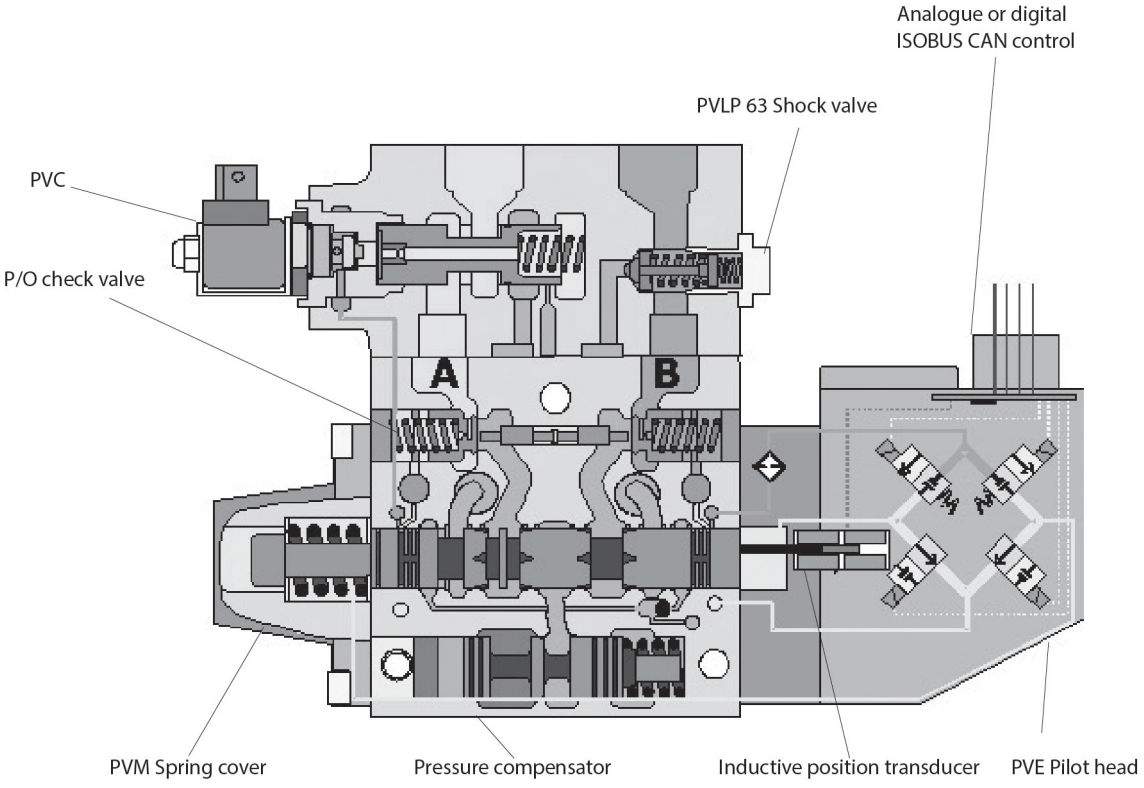
Containing many of the same components as Danfoss auxiliary valves, the hitch valves are easy to integrate in an existing hydraulic system. The technology on which they are based is long since proven. That leaves a smart new hitch with the best of everything.

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)
- Double-acting
  - Easy and safe detaching of implements
  - Quick and easy lowering of hitch arms, also in cold conditions
- Single-acting (when in work mode)
  - Auto fast down to reference depth
  - Safe detach of hitch arms from drivers seat
  - Possible to use hitch as jack with "fender buttons"
- Applications
  - Rear and front hitch linkages on medium and high performance tractors
  - Hitch linkage on telehandlers
  - Header control on combines and harvesters

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

PVG-32 Hitch Double-Acting Valve Module



Specifications

Product Parameters

Maximum 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 mm^2/s [102 SUS]	A → T	25 cm^3/min	[1.53 in^3/min]
	B → T without shock valv:	1.0 cm^3/min	[0.06 in^3/min]
	B → T with shock valve	6.0 cm^3/min	[0.37 in^3/min]
Oil temperature (inlet temperature)	Recommended temperature	30-60°C	[86-140°F]
Oil viscosity	Operating range	12 - 75 mm^2/s	[65 - 347 SUS]
	Min. viscosity	4 mm^2/s	[39 SUS]
	Max. viscosity	460 mm^2/s	[2128 SUS]
Filtration	Max. contamination (ISO 4406)	19/16	19/16

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