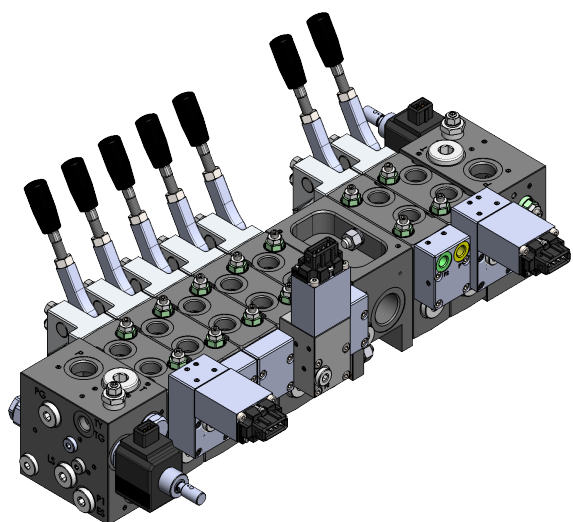


PDV37 is a hydraulic proportional directional valve, designed to offers a wide range controls options and flexibility.

The **PDV37** modular system enables bankable groups to perform many individual tasks, to meeting and exceeding the changing control needs of the off-highway machines of today, and well into the future to maximize the efficiency, controllability and reliability of vehicles.

PDV37 main features:



- Load sensing up-stream pressure compensation
- High flow/low pressure drop capability in a compact size
- Integrated pump unloading system
- Integrated cut-off pump system
- Open/closed centre shifting system
- Precise metering capabilities
- LSA-LSB electrical unloading
- LSA-LSB electrical working pressure remote control
- Constant flow regardless of pressure
- Working sections symmetrical flow
- Optional priority inlet for steering or different priority functions
- Optional dual hydraulic pilot and electrohydraulic control
- ATEX and IECEx configuration
- CAN-Bus communication
- EMC immunity ensures high safety with regard to electro-magnetic compatibility

The hydraulic features listed in this chart, are typical measured data obtained by using mineral based hydraulic oil according to DIN 51524 with a viscosity of 21 mm²/sec [102 SUS] and a temperature of 50 °C [122 °F]

Oil flow rate	PDI inlet section, P port		90 l/min (max)	24 US gal/min
	PDIM - Mid inlet section, P port		160 l/min	43 US gal/min
	A, B port with pressure compensator		60 l/min	16 US gal/min
	A, B port without pressure compensator		70 l/min	19 US gal/min
Max. pressure	P port	Pressure relief valve setting	400 bar	5800 psi
		Working pressure	370 bar	5370 psi
	A, B port		370 bar	5370 psi
	Ty port, directly to tank			
	T port	Static	25 bar	363 psi
		Dynamic	35 bar	510 psi
Max. pilot pressure oil supply			18 ÷ 22 bar	260 ÷ 320 psi
Oil temperature	Recommended		30 ÷ 65 °C	86 °F ÷ 149 °F
	Min		-30 °C	-22 °F
	Max		90 °C	194 °F
Ambient temperature			-30 ÷ 60 °C	-22 ÷ 140 °F
Oil viscosity	Operating range		12 ÷ 75 mm²/sec	65 ÷ 347 SUS
	Min		4 mm²/sec	39 SUS
	Max		460 mm²/sec	2128 SUS
Spool stroke	Standard		6 mm	0,24 in
	Flow control proportional range		4,75 mm	0,19 in
	Pressure control propotional range		6 mm	0,24 in
Daed band spool	Flow control		1,5 mm	0,06 in
	Pressure control		1,5 mm	0,06 in
Max internal leakage A/B port at 100 bar [1450 psi] and 21 mm²/sec		A/B T without shock valves	25 cm³/min	1,53 in³/min
		A/B T with shock valves	25 cm³/min	1,53 in³/min
Filtration	Max. contamination: class 9 according to NAS 1638 (20/18/15 according to ISO 4406)			

PDH module - hydraulic control

Pilot pressure	Spool start movement	4 bar / 58 psi
	Spool end stroke	15 bar / 218 psi
Max. pilot pressure		30 bar / 436 psi

PDV37 internal filters, mesh 100 µm

Mineral oil hydraulic fluid: according to DIN 51524 and 51525 or ISO 6743/4 PDV37 can also be used with phosphate esters (HFDR), water-glycol (HFC) or water oil (HFB) mixes, subject to our Technical Dept. approval