

PROPORTIONAL SPOOL VALVES

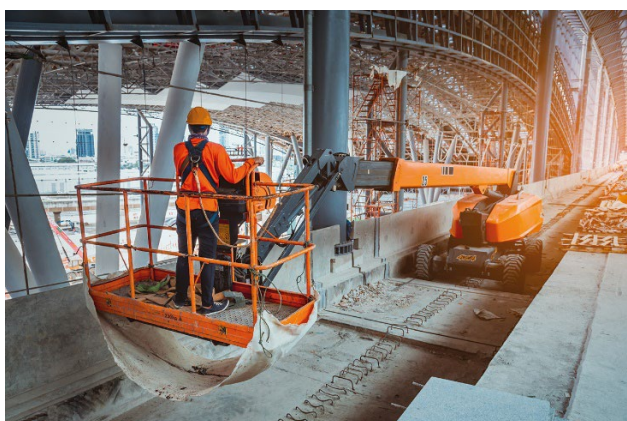
WDPFA06 & WDPFA10_65

PROPORTIONAL SPOOL VALVE

Direct operated	WDPFA06	WDPFA10_65
Q_{max}	42 l/min	100 l/min
p_{max}	350 bar	350 bar
4/2-way with spring reset		
4/2-way spool valve (impulse)		
4/3-way spool valve (spring centring)		
Various coil executions possible thanks to the plug-in principle		

DESCRIPTION

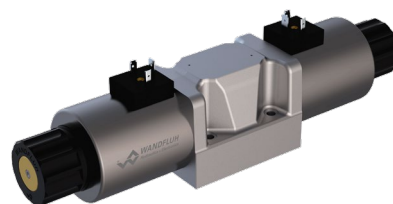
The proportional spool valve program in the nominal sizes NG10 and NG6 has been enhanced in recent years and greatly improved in terms of its performance characteristics. The valves still have high volume flows even at high pressures, especially if the Δp of the valve is controlled by a pressure compensator. With the NG10 proportional spool valves, volume flows of up to 100 l/min can be achieved.



Application example lifting platform



WDPFA06 as 4/2-way spool valve



WDPFA10_65 as 4/3-way spool valve

FIELDS OF APPLICATION

These valves are already used in many areas. Applications are:

- Steering systems of off-highway vehicles
- Control of lifting and lowering movements
- Speed controls for hydraulic motors
- Excavator accessories equipment, shovel tilt/rotate
- Simple cylinder positioning in the industrial sector
- Process valve controls



MANUAL OVERRIDE

The following options are available for the two valves



From left: Standard (integrated in armature tube); HF1 (press); HS1 (turn)

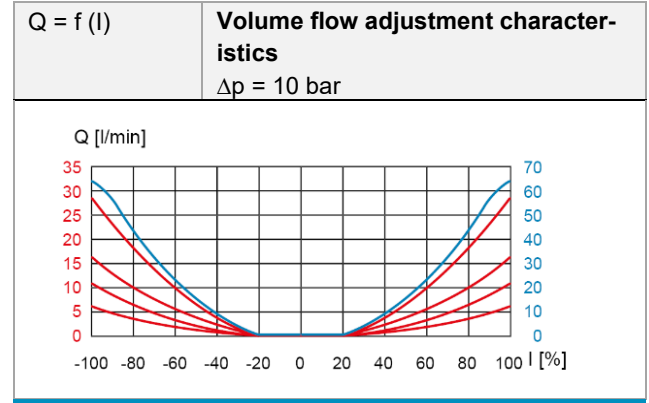
ELECTRONICS

For the control of proportional spool valves, electronic modules in different executions are available. Regardless of the design, the modules can be programmed using the free parameterisation software PASO.



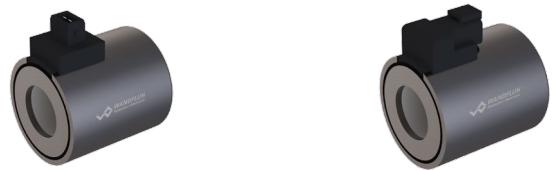
Amplifier and controller electronics

ADJUSTMENT CHARACTERISTIC



Adjustment characteristics of **WDPFA06** and **WDPFA10_65**

COILS



AMP Junior Timer and German DT04-2P

FEATURES

- Light and compact design
- Low hysteresis
- High volume flow
- Sensitive motion sequences
- High resolution

