WANDFLUH
Hydraulics + Electronics

FACTSHEET

PMV – PROPORTIONAL MOBILE VALVES

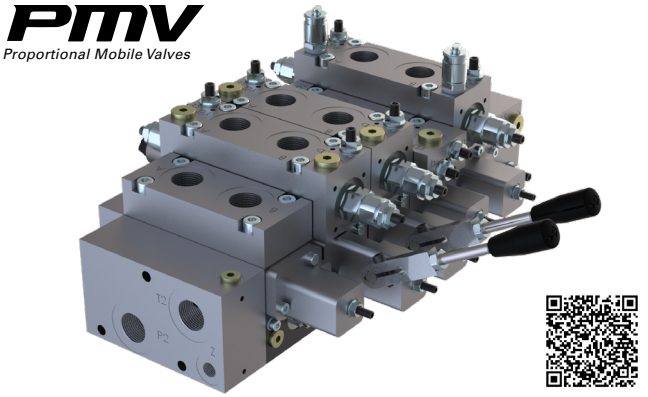
DESCRIPTION

PMV is a flexible hydraulic concept that can be adapted individually and modularly. The new product series is designed for applications in mobile machinery or in the marine sector, to meet challenging requirements while providing sensitive control. PMV solutions are compact hydraulic units consisting of individual hydraulic valves matched to each other for optimized force and speed control of hydraulic drives. The individual modules (build parts) act as functional building blocks that are flexibly designed and screwed together to form a single unit and coordinated with each other. The individual control sections are individually equipped with the functions and connected by means of tie rods, making the modules freely adaptable to specific requirements as well as expandable. Depending on the nominal size, a PMV unit can have up to 12 control sections.

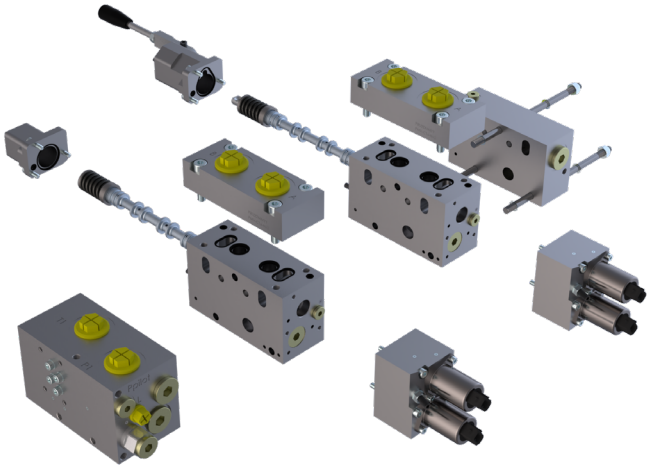
CHARACTERISTICS

- Modular construction
- Individually adaptable
- Extensive modular system with a large number of variants and combination options
- Compact and light construction
- Rugged and durable design
- Volume flows and load pressures individually adaptable to downstream consumers
- High energy efficiency due to low delta p
- Load Sensing Signal Amplifier
- Anti-saturation module
- Load-independent flow control
- Pressure relief valves for ports A and B allow reduced energy loss

ANIMATION OPERATION



PMV-16 Unit



CONCEPT

The modular design also allows special solutions to be created in a flexible manner. For example, integrated lowering brake valves or controlled check valves can be integrated in the connection plate. There are two nominal sizes, PMV-16 and PMV-22.

SPECIFICATIONS	PMV-16	PMV-22
Max. pressure	420 bar	420 bar
Max. inlet flow rate	260 l/min	800 l/min
Flow rate per section @10bar Flow rate per section @17bar	100 l/min 120 l/min	260 l/min 350 l/min
Max. flow rate per section (without pressure compensation)	180 l/min (200 l/min)	400 l/min (450 l/min)
Option	Zinc-nickel coating	Zinc-nickel coating
2 control sections parallel via twin plate, Q_{max} in A and B	–	690–800 l/min
Port connection A, B	G3/4"	G1¼"
Port connection P, T (2x each)	G3/4"	P: G1¼" T: G1½"
Twin plate connection	–	SAE flange 1", code 62 (6000psi)
Amplifier, anti-saturation option	Yes	Yes
Pump unloading option	On/off and proportional	On/off and proportional
Max. number of sections	12	10

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