

Zalety akumulatorów tłokowych + porównanie z akumulatorami pęcherzowymi i membranowymi.

KEY ADVANTAGES



HIGHEST FLOW RATE

The piston accumulator structure enables the highest flow rates for hydraulic fluid.



OPTIMISATION FOR SYSTEM REQUIREMENTS

Piston accumulators can be short and wide or long and thin. Hydroll has a unique capability for effective mass customization.



LOWEST GAS PERMEATION


Multiple times slower pre-charge gas permeation makes piston the safest and most reliable alternative.



FLEXIBLE MOUNTING POSITION

The piston accumulator can also be mounted horizontally without sacrificing reliability.

FEATURE / TYPE OF ACCUMULATOR	PISTON	BLADDER	MEMBRANE
Oil flow rate	High	Low	Medium
Compression ratio (max. pressure to pre-charge pressure)	10:1	4:1	6:1
Horizontal mounting position	Yes	No	No
Size optimization for system requirements	Yes	No	No
Space requirement	Small	Large	Medium
Sensing (e.g. pressure and piston position monitoring)	Yes	No	No
Temperature tolerance (low)	- 45°C	- 25°C	- 25°C
Extra gas tank connection	Yes	Yes	No
Dual functionality (dual piston or gas chamber)	Yes	No	No
Gas permeation (loss off pre-charge pressure)	Very low	High	High
Service interval	Long	Short	Short
Response time	Medium	Medium	High
Tolerance for dirt	Low	High	Medium
Pre-charge lost in case of failure	Gradual	Immediate	Immediate

 = Better