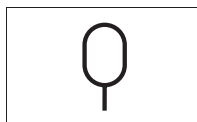


Integral Accumulator Diaphragm Accumulator D2,0-250 (bolted)



1. Features

Nominal volume:	2,0 l
Effective gas volume:	2,0 l
Perm. operating pressure:	250 bar
Weight:	13,5 kg

2. Material

Housing:	steel
Diaphragm:	Perbunan (NBR), Viton (FKM) or epichlorhydrin (ECO)

 Other diaphragm materials on enquiry

3. Operating Limits

Permissible gas filling pressure:	max. 130 bar, however limitations due to various transport regulations
Gas filling:	nitrogen (N ₂)
Hydraulic fluid: ^{a)}	hydraulic oils → Recommended Oil Types – Technical Principles from page 10.12
Max. permissible pressure ratio: ^{b)}	Abs. working pressure [bar] $\leq \frac{8}{1}$ Abs. gas filling pressure [bar]
Perm. Δp dynamic:	200 bar
Permissible operating temperature: ^{c)}	-10 °C to +80 °C
Installation position:	any
Filling and testing device DFM:	→ Integral Accumulator Filling Device for Diaphragm Accumulators DFM from page 9.54

^{a)}  Other fluids on enquiry

^{b)}  Other on enquiry

^{c)}  Usage in other temperature ranges on enquiry

4. Directives

This hydro accumulator complies with the European directive on pressure equipment 97/23/EC, category II and is supplied with a CE marking. The hydro accumulator must be subjected to an acceptance inspection by an approved monitoring body (formerly expert) prior to initial commissioning. → European Directive on Pressure

Equip. 97/23/EC (abridged information) – Technical Principles from page 10.15

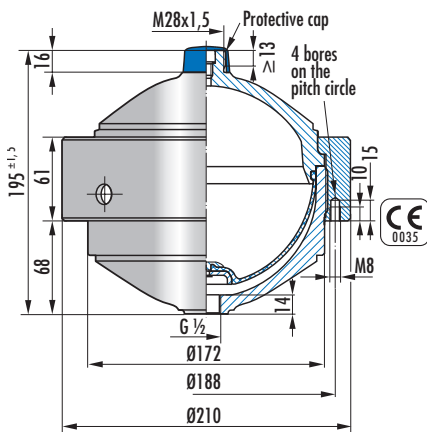
4.1 Selection, installation and operation

→ Guidelines for Selection, Installation and Operation – Technical Principles from page 10.3

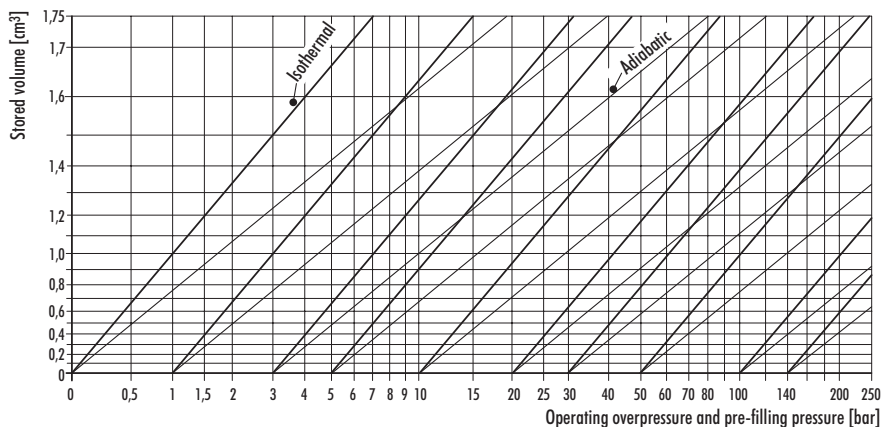
4.2 Calculation and design

→ Calculation and Design – Technical Principles from page 10.7

5. Installation Drawing



6. Pressure-Volume Characteristic Curve



7. Article List D2,0-250 (bolted)

D2,0-250 (bolted)	
Diaphragm material	Article No.
NBR	200-1315-032-611/ ^{a)}
FKM	200-1315-032-631/ ^{a)}
ECO	200-1315-032-641/ ^{a)}

^{a)} required gas filling pressure in bar

8. Ordering Example

Type	Diaphragm Material	Art. No./Gas Filling Pressure (e.g. xxx bar)
D2,0-250 (bolted)	ECO	200-1315-032-641/xxx