

# DIAPHRAGM ACCUMULATORS

## General

Diaphragm accumulators are an ideal solution for applications that require low fluid volumes typically in energy storage, pulsation dampening and shock absorption applications. Due to their compact and cost effective yet durable design, they are suitable for numerous mobile and industrial application.

## Benefits

- Light Weight
- Compact design
- Flexible mounting options
- Quick response
- Low cost non-repairable design
- High working pressure compression Ratio
- Contamination tolerant
- Durable construction
- Low maintenance
- Ideal for pulsation dampening & shock applications

## Design Features

- **Shell** – Electron beam welded high strength steel.
- **Diaphragm** – Two options available that are compatible with most mineral oils.
- **Nitrile (NBR)** as a standard (50F to 1760F)
- **ECO (Hydrin)** for low permeation and extreme temperature range (-310F to +2390F)
- **Fluid Port** – SAE Female thread option as standard. Other options available.
- **Gas Port** – Metric M28x1.5 connection with M8x10 screw & bonded seal as standard. Schrader type gas valve option available.
- **Protection** – Durable black paint
- **Certification** – Complies with European PED 97/23/EC without CE marking.

## Applications

- Agriculture Machinery
- Forestry Machinery
- Mobile & Construction Machinery
- Automotive – Breaking & Suspension
- Machine Tools
- Railroad

## Installation

Diaphragm Accumulators can be mounted in any position but recommended method is vertical with fluid port at the bottom for optimum performance. Accumulators up to 120 CI (2 Liters) can be mounted directly on the hydraulic line. For larger sizes or when strong system vibrations are expected, we recommend mounting brackets for secured installation. Do not weld anything on the accumulator.

## Precharging

USE DRY NITROGEN ONLY for precharging the accumulator to the desired pressure based on the application requirements. Use SFP recommended charging kits for any pre-charge and maintenance. Ensure the hydraulic pressure in the line is vented completely before conducting any pre-charge maintenance.



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Model Code	Size Cu. In (Liters)	Diaphragm Material	Fluid Port ( A )	Max. Design Pressure PSI (Bar)	Diameter ( D ) Inches (mm)	Length ( L ) Inches (mm)	Weight Lbs (kg)	Gas Connection
DA007-36-S-E-N-M-01	5 (0.07)	Nitrile (NBR)	-6 SAE	3600 (250)	2.5 (63.5)	4.6 (116.84)	1.8 (0.9)	M28x1.5
DA007-36-S-E-H-M-01		ECO / Hydrin	9/16"-18 UN					
DA016-36-S-E-N-M-01	10 (0.16)	Nitrile (NBR)	-6 SAE	3600 (250)	3.0 (76.2)	5.0 (127)	2.2 (1.0)	M28x1.5
DA016-36-S-E-H-M-01		ECO / Hydrin	9/16"-18 UN					
DA032-30-S-F-N-M-01	20 (0.32)	Nitrile (NBR)	-8 SAE	3000 (210)	3.6 (91.44)	5.6 (142.24)	4 (1.8)	M28x1.5
DA032-30-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA050-30-S-F-N-M-01	30 (0.50)	Nitrile (NBR)	-8 SAE	3000 (210)	4.2 (106.68)	6.7 (170.18)	4.6 (2.1)	M28x1.5
DA050-30-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA075-30-S-F-N-M-01	45 (0.75)	Nitrile (NBR)	-8 SAE	3000 (210)	4.8 (121.92)	6.9 (175.26)	6 (2.7)	M28x1.5
DA075-30-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA100-30-S-F-N-M-01	60 (1.0)	Nitrile (NBR)	-8 SAE	3000 (210)	5.4 (137.16)	7.4 (187.96)	8.8 (4)	M28x1.5
DA100-30-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA140-30-S-F-N-M-01	85 (1.4)	Nitrile (NBR)	-8 SAE	3000 (210)	5.8 (147.32)	8.0 (203.2)	9.3 (4.2)	M28x1.5
DA140-30-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA200-36-S-F-N-M-01	120 (2.0)	Nitrile (NBR)	-8 SAE	3600 (250)	6.2 (156)	10.0 (255)	20.9 (9.5)	M28x1.5
DA200-36-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA280-36-S-F-N-M-01	170 (2.8)	Nitrile (NBR)	-8 SAE	3600 (250)	6.9 (175.26)	10.6 (269.24)	24.3 (11)	M28x1.5
DA280-36-S-F-H-M-01		ECO / Hydrin	3/4"-16 UN					
DA350-36-S-G-N-M-01	215 (3.5)	Nitrile (NBR)	-12 SAE	3600 (250)	6.9 (175.26)	12.2 (309.88)	30.9 (14.0)	M28x1.5
DA350-36-S-G-H-M-01		ECO / Hydrin	1-1/16"-12 UN					

- Information provided is for reference purpose only and subject to change.  
Consult factory for any critical application requirements.

- Dimensions are for reference purpose only. Manufacturing tolerances not taken into account.

