

## HDA(S) Series

Diaphragm  
Accumulators

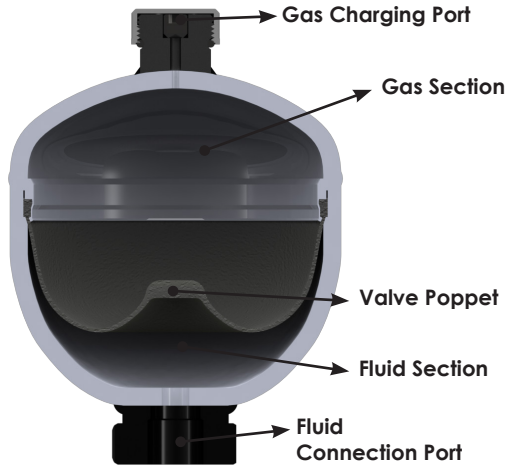
# HDA(S) Series



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## Introduction

HydroLync Diaphragm Accumulator (HDA) is using nitrogen as the compressible medium for storing fluid pressure energy.



The diaphragm accumulator consists of the upper part, a fluid section, and the lower part, a gas section with the diaphragm.

The fluid section is connected with the hydraulic circuit in order to draw in fluid when the pressure increases and the gas is compressed. When the pressure drops, the compressed gas expands and forces the stored fluid into the circuit.

At the bottom of the diaphragm is a pre-vulcanized button or valve poppet. This shuts off the hydraulic outlet when the accumulator is completely empty and thus prevents damage to the diaphragm.

## Shell and Diaphragm Material

The shell is available in Carbon and stainless steel (SUS 316L)

The diaphragms are available as below:

Compound	Working Temp. Range	Fluids
NBR	-15 °C to + 80 °C	mineral oils
ECO (HYDRIN)	-40 °C to +125 °C	mineral oils
IIR (BUTYL)	-30 °C to + 90 °C	brake fluids
FKM (VITON)	-45 °C to +150 °C	chlorinated hydrocarbons

## Application

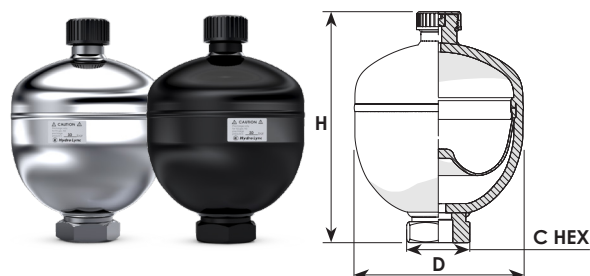
- Presses, agricultural and construction machines with hydraulic drives
- The stored energy is used to amplify brake and coupling power
- Breaking systems
- Drive hydraulics
- Blade suspensions



Nitrogen charging unit is available

## HDA(S) R type

Rechargeable

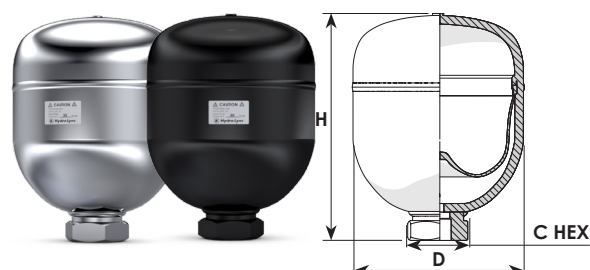


Volume (L)	Pressure (bar)	compression Ratio	Air Port	Oil Port	H	D	C Hex	Weight
0.075	210/330	8:1	M28x1.5	G1/2HEX	123	64	22	0.9
0.16	210/330	8:1	M28x1.5	G1/2HEX	120	74.4	32	1.0
0.32	210/330	8:1	M28x1.5	G1/2HEX	137.5	93	32	1.4
0.5	210/330	8:1	M28x1.5	G1/2HEX	155	105	32	1.7
0.75	100/210/330	8:1	M28x1.5	G1/2HEX	159.5	120	41	2.6
1.0	100/210/330	6:1	M28x1.5	G1/2HEX	159	136	41	4.0
1.4	100/210/330	6:1	M28x1.5	G1/2HEX	181.5	149.6	41	8.7
2.0	100/210/330	6:1	M28x1.5	G3/4HEX	199.5	166	41	6.2
2.8	250/330	4:1	M28x1.5	G3/4HEX	300.8	174	41	11.0
3.8	100/210/330	4:1	M28x1.5	G3/4HEX	340.2	174	41	12.3

**\*Notice:** The technical specifications of the **stainless shell** are determined by the customer's request.

## HDA(S) S Type

Sealed gas connection



Volume (L)	Pressure (bar)	compression Ratio	Oil Port	H	D	C Hex	Weight (Kg)
0.075	100/210/330	8:1	PF1/4(M)	123	64	22	0.7
0.16	100/210/330	8:1	G1/2(F)-14	120	74.4	32	0.9
0.32	100/210/330	8:1	G1/2(F)-14	137.5	93	30	1.6
0.5	100/210/330	8:1	M18x1.5	155	105	30	1.7
0.7	100/210/330	8:1	G1/2(F)	145	106	32	2.0
0.75	100/210/330	8:1	M18x1.5(M)	159.5	120	30	2.6
1.0	100/210/330	6:1	M22x1.5(F)	159	136	41	3.9
1.4	100/210/330	6:1	G1/2(F)-14	181.5	149.6	41	5.5
2.0	100/210/330	6:1	G3/4(F)-14	199.5	166	41	6.6
2.8	100/210/330	4:1	G3/4(F)-14	300.8	175.2	41	10.0
3.5	100/210/330	4:1	G3/4(F)-14	340.2	175.2	41	11.3

**\*Notice:** The technical specifications of the **stainless shell** are determined by the customer's request.



KakaoTalk



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# Hydro Lync

Engineering Excellence



## Contact us

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