

HDA Series

Diaphragm
Accumulators

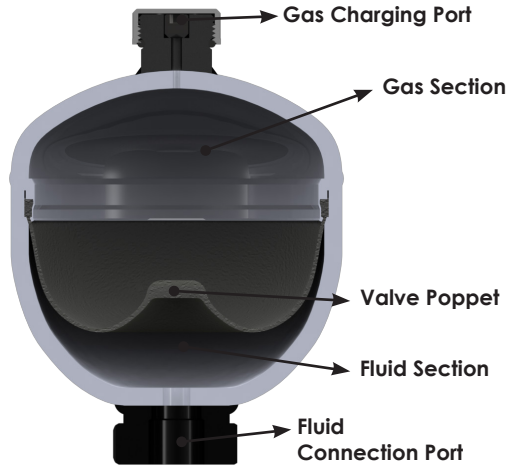
HDA Series



HDA Series

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
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

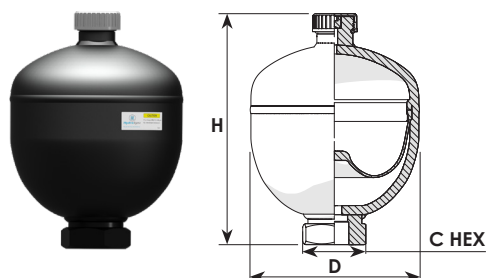
- Presses, agricultural and construction machines with hydraulic drives
- The stored energy is used to amplify brake and coupling power
- Breaking systems
- Drive hydraulics
- Blade suspensions



Nitrogen charging unit is available

HDA R type

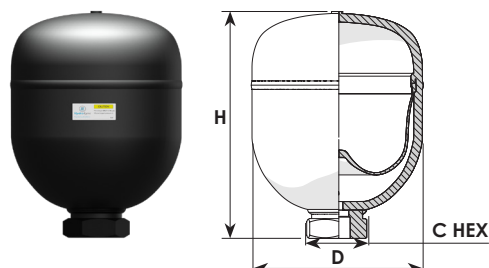
Rechargeable



Volume (L)	Pressure (bar)	compression Ratio	Air Port	Oil Port	H	D	C Hex	Weight
0.075	100/210/330	8:1	M28x1.5	G1/2HEX	123	64	22	0.9
0.16	100/210/330	8:1	M28x1.5	G1/2HEX	120	74.4	32	1.1
0.32	100/210/330	8:1	M28x1.5	G1/2HEX	137.5	93	32	1.8
0.5	100/210/330	8:1	M28x1.5	G1/2HEX	155	105	32	1.9
0.75	100/210/330	8:1	M28x1.5	G1/2HEX	159.5	120	32	2.8
1.0	100/210/330	6:1	M28x1.5	G1/2HEX	159	136	41	4.1
1.4	100/210/330	6:1	M28x1.5	G1/2HEX	181.5	149.6	41	5.7
2.0	100/210/330	6:1	M28x1.5	G3/4HEX	199.5	166	41	6.8
2.8	100/210/330	4:1	M28x1.5	G3/4HEX	300.8	175.2	41	10.2
3.8	100/210/330	4:1	M28x1.5	G3/4HEX	340.2	175.2	41	11.3

HDA 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



scan me with KakaoTalk

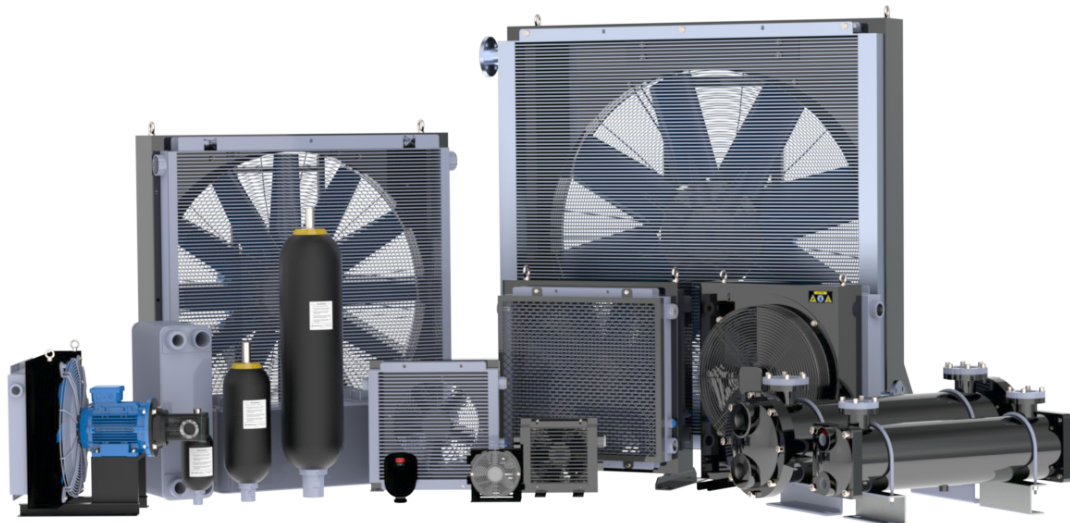


scan me with WeChat



HydroLync

Engineering Excellence



Contact us

✉ info@hydrolync.com

-
- 🇰🇷 Korea Tel +82 (31) 499 6682 Fax +82 (31) 499 6683
DA-1, 39, Gongdan 1-daero 28beon-gil, Siheung-si, Gyeonggi-do, Republic of Korea, 15087
 - 🇨🇳 China Tel +86 (510) 8224 1116
240-3, Xida Road, Meicun Industrial Center, New District, Wuxi, Jiangsu, China, 214112