



NOPAK

First in Manufacturing. Engineered to Last.



Nopak Accumulators

Piston Type - 3000 PSI

Overview 4000

3000 PSI Standard Piston Accumulators

4.00" PISTON ACCUMULATOR DATA							
PART NUMBER	FLUID VOLUME		NITROGEN GAS VOLUME		TUBE OD	OAL	DRY WEIGHT
	GAL	IN ³	GAL	IN ³	IN	IN	LBS
PA04N001H20JA	0.25	57.75	0.29	67.75	4.75	11.42	32
PA04N002H20JA	0.50	115.50	0.54	125.50		16.02	39
PA04N004H20JA	1.00	231.00	1.04	241.00		25.21	52
PA04N006H20JA	1.50	346.50	1.54	356.50		34.40	66
PA04N010H20JA	2.50	577.50	2.54	587.50		52.78	92

6.00" PISTON ACCUMULATOR DATA							
PART NUMBER	FLUID VOLUME		NITROGEN GAS VOLUME		TUBE OD	OAL	DRY WEIGHT
	GAL	IN ³	GAL	IN ³	IN	IN	LBS
PA06N004H24JA	1.00	231.00	1.15	266.00	7.00	16.67	96
PA06N010H24JA	2.50	577.50	2.65	612.50		28.92	131
PA06N016H24JA	4.00	924.00	4.15	959.00		41.18	167
PA06N020H24JA	5.00	1155.00	5.15	1190.00		49.35	191
PA06N030H24JA	7.50	1732.50	7.65	1767.50		69.77	250
PA06N040H24JA	10.00	2310.00	10.15	2345.00		90.20	309

9.00" PISTON ACCUMULATOR DATA							
PART NUMBER	FLUID VOLUME		NITROGEN GAS VOLUME		TUBE OD	OAL	DRY WEIGHT
	GAL	IN ³	GAL	IN ³	IN	IN	LBS
PA09N010H24JA	2.50	577.50	2.89	667.50	11.00	20.14	320
PA09N020H24JA	5.00	1155.00	5.39	1245.00		29.22	401
PA09N040H24JA	10.00	2310.00	10.39	2400.00		47.37	563
PA09N060H24JA	15.00	3465.00	15.39	3555.00		65.53	725
PA09N080H24JA	20.00	4620.00	20.39	4710.00		83.68	887
PA09N100H24JA	25.00	5775.00	25.39	5865.00		101.84	1049
PA09N120H24JA	30.00	6930.00	30.39	7020.00		120.00	1211

12.00" PISTON ACCUMULATOR DATA							
PART NUMBER	FLUID VOLUME		NITROGEN GAS VOLUME		TUBE OD	OAL	DRY WEIGHT
	GAL	IN ³	GAL	IN ³	IN	IN	LBS
PA12N100H32KA	25.00	5775.00	25.87	5975.00	14.44±.06	64.56	1266
PA12N120H32KA	30.00	6930.00	30.87	7130.00		74.77	1417
PA12N160H32KA	40.00	9240.00	40.87	9440.00		95.20	1719
PA12N200H32KA	50.00	11550.00	50.87	11750.00		115.62	2020



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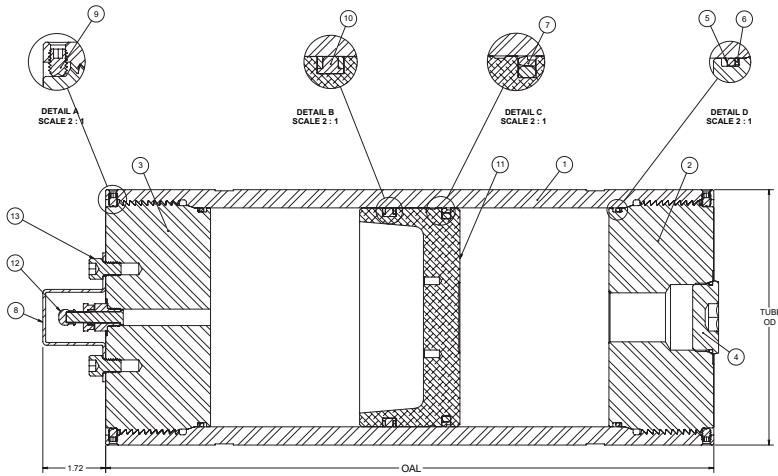
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Features

- 3000 PSI working pressure
- Hydrostatic pressure tested at 4500 PSI
- Designed around ASME specifications
- Lightweight aluminum piston for fast response
- Multiple piston sealing options available as custom design
- Low friction / High speed seals available
- 22 standard volume capacity designs
- 4 standard bore sizes
- Ability to manufacture to exact customer specification

Specifications

- Threaded end caps made from forged steel bar make both sides repairable
- Four set screws at both ends for secondary retention method
- Proven bi-directional seal on gas side
- Two standard seal material offerings: NBR and FKM
 - Operating Temperatures:
 - NBR: -30°F to +212°F
 - FKM: -15°F to +400°F
- Custom seal materials available
- Hydraulic fluid ports come in two standard options: SAE O-Ring Boss and SAE Code 61
 - SAE Code 62 port available upon request
- Nitrogen end cap port valve without core is standard - cored type available upon request



Repair Kits

Bore Size	Type A	Type B
4.00	PA-KIT-400A	PA-KIT-400B
6.00	PA-KIT-600A	PA-KIT-600B
9.00	PA-KIT-900A	PA-KIT-900B
12.00	PA-KIT-1200A	PA-KIT-1200B

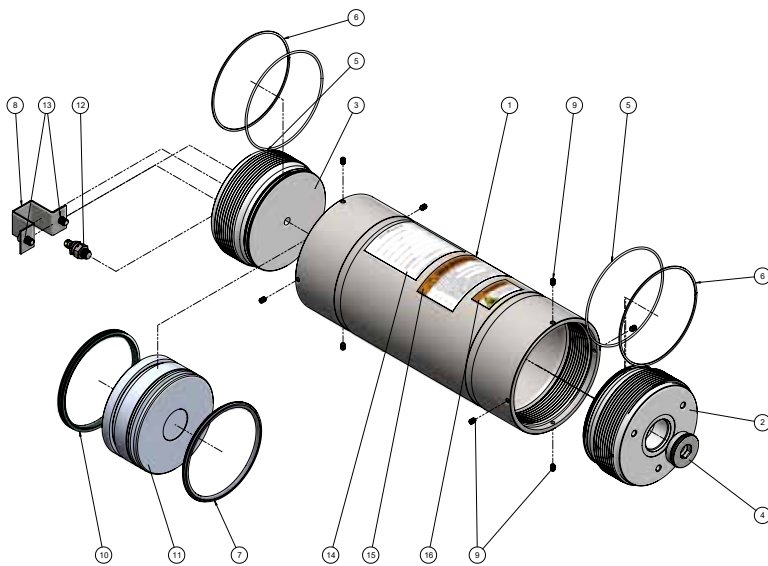
Kit includes:

1 - Primary Piston Seal, 1 - Secondary Piston Seal,
2 - Backup Rings, 2 - Tube O-rings

Type A: Buna -N, -30°F to +212°F

Type B: Fluorocarbon (FKM), -15°F to +400°F

Exploded View



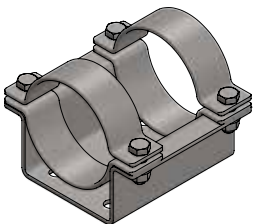
Parts List

1	SHELL
2	HYDRAULIC HEAD
3	GAS HEAD
4	HYDRAULIC PLUG (BLANKING PLATE FOR CODE 61/62 PORTS)
5*	O-RING
6*	O-RING BACKUP
7*	HYDRAULIC SIDE SEAL
8	VALVE PROTECTION COVER
9	LOCKING SET SCREW
10*	GAS SIDE SEAL
11	PISTON
12	GAS CHARGING VALVE, WITH CAP
13	GUARD BOLTS
14	ACCUMULATOR ID LABEL
15	ACCUMULATOR WARNING LABEL
16	ACCUMULATOR WARNING LABEL

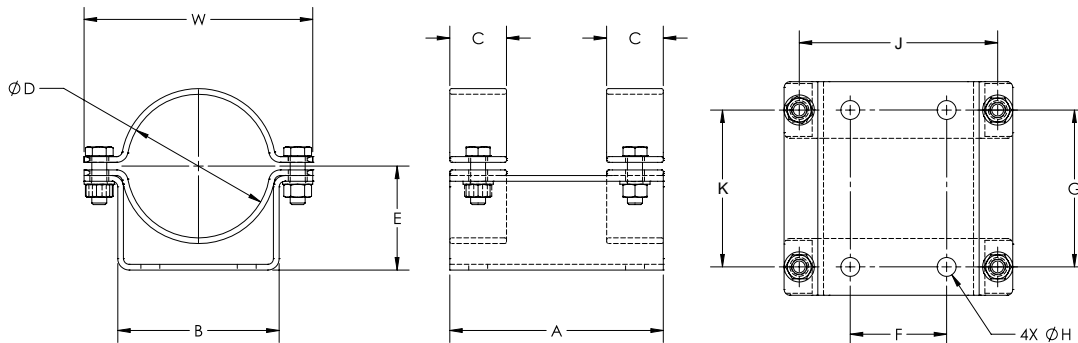
*ITEMS ARE INCLUDED IN SEAL REPAIR KITS.

Accumulator Accessories

Mounting Brackets*



Part No.	Bore	A	B	C	D	E	F	G	H	J	K	W
21735L0475	4.00	4.50	5.19	1.18	4.75	2.75	3.25	3.25	0.40	6.13	3.31	7.00
21735L0700	6.00	6.50	7.44	1.18	7.00	3.88	5.25	4.50	0.65	8.56	5.31	9.53
21735L1100	9.00	6.50	11.50	1.18	11.00	5.88	9.25	4.50	0.65	12.75	5.31	13.69
21735L1450	12.00	9.50	15.00	1.58	14.50	8.38	12.75	7.00	0.90	16.38	7.94	17.53



*Alternate styles and options available. Consult factory.

*Consult factory for charging kits. Pre-charge with nitrogen only.



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3000 PSI Piston Accumulators

Ordering Code

	Series	Bore	Valve Option	Fluid Volume	Working Pressure	Port Size	Port Type	Seal Type
	PA	04	N	002	H	20	J	A
Code	Piston Accumulator							
Code	Bore Size							
04	4.00							
06	6.00							
09	9.00							
12	12.00							
Code	Valve Option							
N	Gas valve without core (standard)							
C	Cored-type gas valve (optional)							
Code	Volume (in Gallons)							
(Specify in quarter Gallons)								
001	0.25							
002	0.50							
004	1.00							
008	2.00							
etc.								
Code	Pressure Limit							
H	3000 PSI Max.							
Code	Port Size							
20	-20 (1.25")							
24	-24 (1.50")							
32	-32 (2.00")							
S	Other (Specify)							
		Bore Size	Standard Port Size					
		4.00	-20 SAE ORB					
		6.00	-24 SAE ORB					
		9.00	-24 SAE ORB					
		12.00	-32 SAE CODE 61					
Code	Port Type							
J	SAE ORB							
K	SAE Code 61							
L	SAE Code 62							
S	Other (Specify)							
Code	Service/Fluid							
A	Buna -N: -30°F to +212°F							
B	Fluorocarbon (FKM): -15°F to +400°F							
S	Special (Specify)							

The GHN Difference

Galland Henning Nopak, Inc. (GHN) started in 1887 manufacturing pneumatic malting equipment. Surviving Prohibition and the Great Depression, GHN began innovating the high density balers and cylinders and valves it's known for today. Galland Henning Nopak is moving forward at a rapid pace.

In January of 2015 we moved into a new World Headquarters in Franklin, WI. Our facility sits on six acres and boasts cutting edge CNC machining. The new facility has increased capacity and expanded capability. This allows us to produce large bore close tolerance cylinders and valves.

GHN unveiled a new brand mark, capitalizing on two product lines: Galland Henning High Density Balers, and NOPAK Cylinders and Valves. With this re-branding came a modernized website and new full-line catalog.

GHN also unleashed a new web-based 3D Product Configurator. This innovative software allows customers to build, price, and generate multiple CAD models and drawings.

The Galland Henning Nopak team continues to strive for excellence. We stand behind our century-old reputation for delivering durable, long-lasting products. NOPAK backs up these claims with an industry leading five-year exclusive warranty. We are proud to introduce our products to you and are excited to be a partner in your business solutions.



**MADE IN
AMERICA**



**GALLAND
HENNING
NOPAK**

Engineering Solutions
Since 1887

10179 S. 57th Street; Franklin, WI 53132
p 414.645.6000 | f 414.645.6048
www.nopak.com | sales@nopak.com