

SN Series

Description

Nitrogen bottles can be used in accumulator applications where large volumes of gas are required for an accumulator. The nitrogen bottle serves to store a large portion of the gas externally from the accumulator in order to reduce or minimize the size and cost of the accompanying accumulator. Nitrogen bottles are typically paired with piston accumulators and sometimes bladder accumulators. The nitrogen bottles themselves are based on either bladder or piston accumulator pressure vessel shells.

Model Code

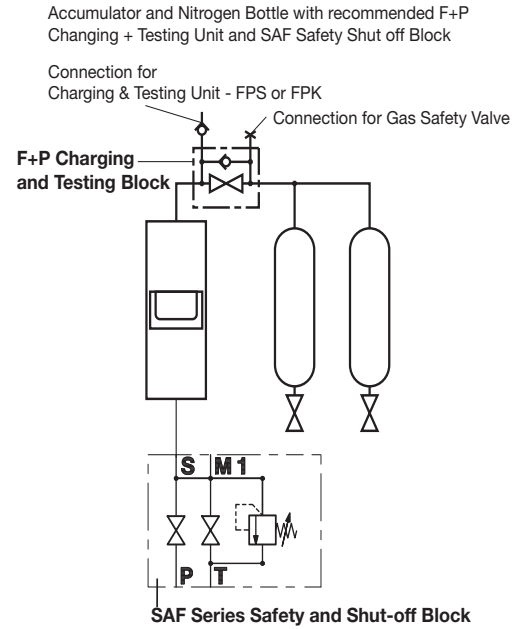
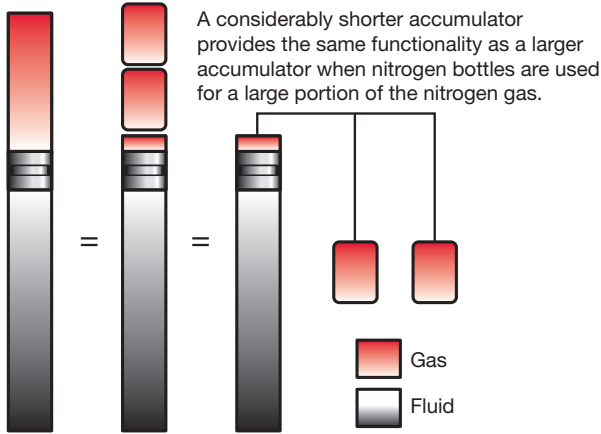
Model Codes containing RED selections are non-standard items – Contact HYDAC for information and availability
Not all combinations are available

	SN330	B	- 57	CC / 010	S - 210	EF
Series	_____					
SN 330 =	Nitrogen Bottle (3000 psi typically)					
SN 600 =	Nitrogen Bottle (5000 psi typically)					
Design Code*	_____					
(omit) =	Standard Nitrogen Bottle					
B =	Based on Bladder Accumulator Shell (see page 7 for details)					
TR =	Top Repairable (Based on Bladder Accumulator Shell) see page 10 for details					
K =	Based on Piston Accumulator Shell					
Size*	_____					
54 =	54 Liters					
57 =	57 Liters					
100 =	100 Liters					
Connection Type	_____					
Connection 1 (see table 1 on following page)	_____					
A =	BSP (ISO 228)					
B =	Metric (DIN 13 According to ISO 965/1)					
C =	SAE (ANSI B1.1) (standard)					
D =	NPT (ANSI B2.1)					
F =	Flange					
Connection 2 (see table 1 on following page)	_____					
A =	BSP (ISO 228)					
B =	Metric (DIN 13 According to ISO 965/1)					
C =	SAE (ANSI B1.1) (standard)					
D =	NPT (ANSI B2.1)					
F =	Flange					
Material Code	_____					
Ports	_____					
0 =	No Components (standard)					
1 =	Carbon steel					
3 =	Stainless steel					
4 =	Carbon steel (coated)					
Shell	_____					
1 =	Carbon steel (standard)					
2 =	Carbon steel (coated)					
4 =	Stainless steel					
Seal Material	_____					
0 =	No Elastomer (standard)					
2 =	NBR (Buna N)					
4 =	IIR (Butyl)					
6 =	FPM (Fluoroelastomer)					
Country of Installation	_____					
S =	USA (for other countries see page 2 for proper code designation)					
Maximum Working Pressure in bar	_____					
210 =	3000 psi					
345 =	5000 psi					
Connection Size (see table 1 on following page)	_____					
Connection 1	_____					
Connection 2	_____					

* Size offering listed is for standard nitrogen bottles. For design types other than standard nitrogen bottles, (Eg. piston type) consult factory.

F+P Charging and Testing Block

Description	MAWP bar/psi	Weight (kg/lbs)	Part Number
F+P-16-3/4-16UNF-6112-02X	400/5800	4.3/9.5	2068047
F+P-32-1 5/8-12UN-6112-02X	350/5076	14/31	2067162
F+P-32-1 5/8-12UN-6112-02X(VERS 4-FPS)	350/5076	14/31	2075698



Dimensions

Size (MAWP)	Connections (1 and 2)	Vol. (gallons)	Weight (lbs)	A (inches)	D (inches)	Part Number
54 (5000 psi)	1 5/16-12UN	15	353	72"	9"	C/F
57 (3000 psi)	1 5/16-12UN	15	247	72"	9"	2096345
75 (3000 psi)	1 5/16-12UN	20	317	80.7"	9"	C/F
100 (3000 psi)	1 5/16-12UN	25	386	89.4"	10.5"	C/F

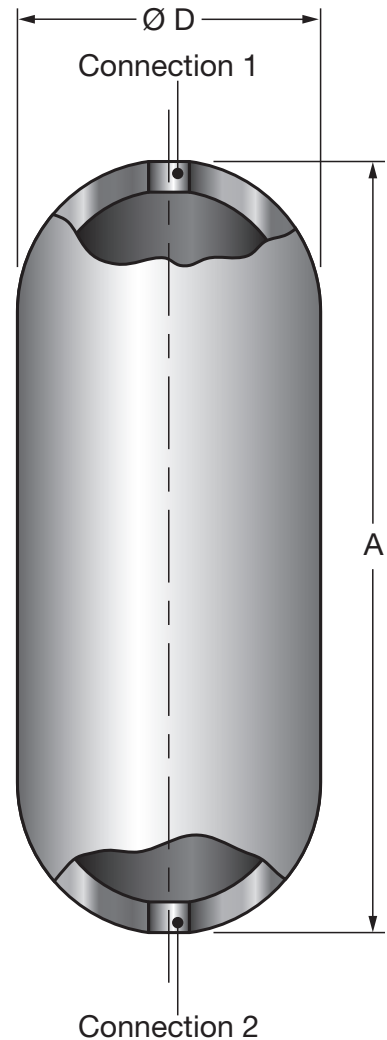
Connections:

Example Model Code SN... -57CC/010S-210EF
 CE = SAE 1 5/16" -12UN
 CF = SAE 1 5/8" -12UN

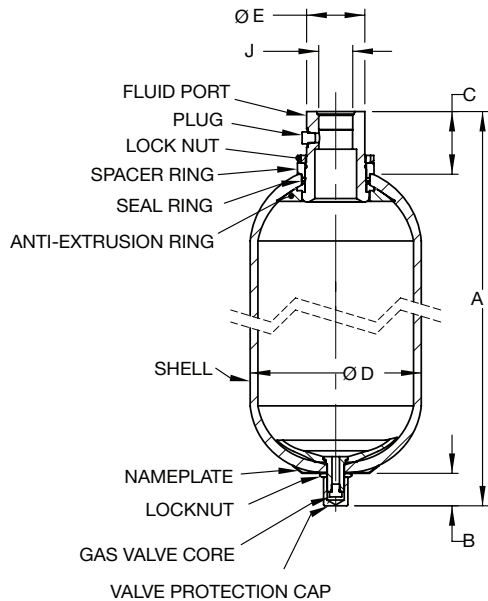
Type	A	B	C	D	F
Size	BSP (ISO228)	Metric (DIN 13 Acc.ISO 965/1)	(ANSI B1.1)	NPT (ANSI B2.1)	SAE Flange
A	G 1/4"	M 12 x 1.5	7/16"-20 UNF	1/4"	1/2" 3000 psi Code 61
B	G 3/8"	M 18 x 1.5	9/16"-18UNF	3/8"	3/4"-3000 psi Code 61
C	G 1/2"	M 22 x 0.5	3/4"-16UNF	1/2"	1" 3000 psi Code 61
D	G 3/4"	M 27 x 2	1 1/16"-12UN	3/4"	1 1/4" 3000 psi Code 61
E	G 1"	M 33 x 2	1 5/16"-12UN	1"	1 1/2" 3000 psi Code 61
F	G 1 1/4"	M 42 x 2	1 5/8"-12UN	1 1/4"	2" 3000 psi Code 61
G	G 1 1/2"	M 48 x 2	1 7/8"-12UN	1 1/2"	1/2" 6000 psi Code 62
H	G 2"	M 14 x 1.5	2 1/2"-12UN	2"	3/4" 6000 psi Code 62
I	G 1 3/4"	M 8	1/2"-20UNF	—	1" 6000 psi Code 62
J	—	—	—	—	1 1/4" 6000 psi Code 62
K	—	—	7/8"-14UNF	5/8"	1 1/2" 6000 psi Code 62
L	—	—	—	—	2" 6000 psi Code 62

Items in RED are using the basic design with an adapter.

Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.



SN 300 SN330B- C4/112S-210G



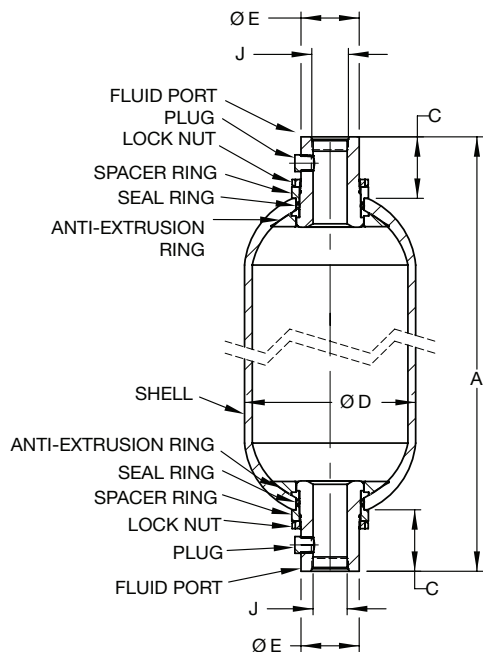
Bottom Repairable

Nom. Vol. (L.)	Eff. Gas Vol. in ³	Weight	A	B	C	ØD	ØE	Thread J
								SAE
10	566	86 (39)	22.0 (559)	3.1 (80)	1.6 (40)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)
20	1125	140 (63)	34.5 (876)	3.1 (80)	1.6 (40)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)
32	2080	226 (102)	54.7 (1390)	3.1 (80)	1.6 (40)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-20)
54	3205	330 (150)	78.3 (1980)	3.1 (80)	1.6 (40)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)

Consult factory for more details

Dimensions are for general information only, all critical dimensions should be verified. Dimensions are in inches/(mm) and lbs/(kg)

SN330BTR- CC/112S-210GG



Top Repairable

Nom. Vol. (L.)	Eff. Gas Vol. in ³	Weight	A	C	ØD	ØE	Thread J
							SAE
10	566	86 (43)	23.5 (597)	3.1 (80)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)
20	1125	140 (63)	36.5 (927)	3.1 (80)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)
32	2080	226 (102)	56.2 (1428)	3.1 (80)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)
54	3205	330 (150)	79.8 (2027)	3.1 (80)	9.1 (231)	3.0 (76)	1 7/8-24 UN (SAE-24)

Consult factory for more details

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