

Universal Accumulator Pre-charging Nitrogen Kit



AACK-3KHD-USMP

Universal Accumulator Pre-charging Nitrogen Kit

CODE	Note	Nitrogen bottle adaptor included		
AACK SKHD HEAD		CGA-580 Gas Bottle Adpapter, 3K		
AACK-3KHD-USMP		Stem & Nut		

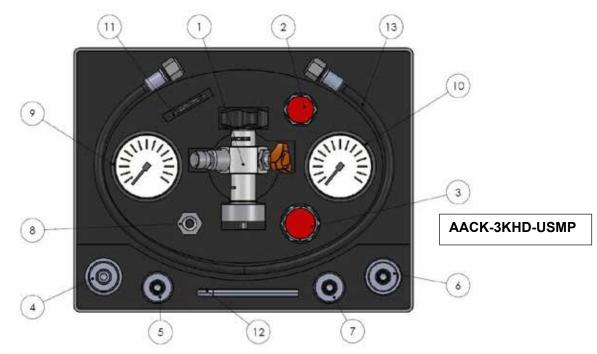


The universal nitrogen tester and pressurizer kit is an indispensable instrument for the verification, pressurization, and nitrogen bleeding for most of the hydraulic accumulators available on the market.

To use this unit, screw it on the inflation valve of the accumulator and connect a high-pressure hose to nitrogen bottle.

Kit Weight: 8.6 lbs - Model - AACK-3KHD-USMP



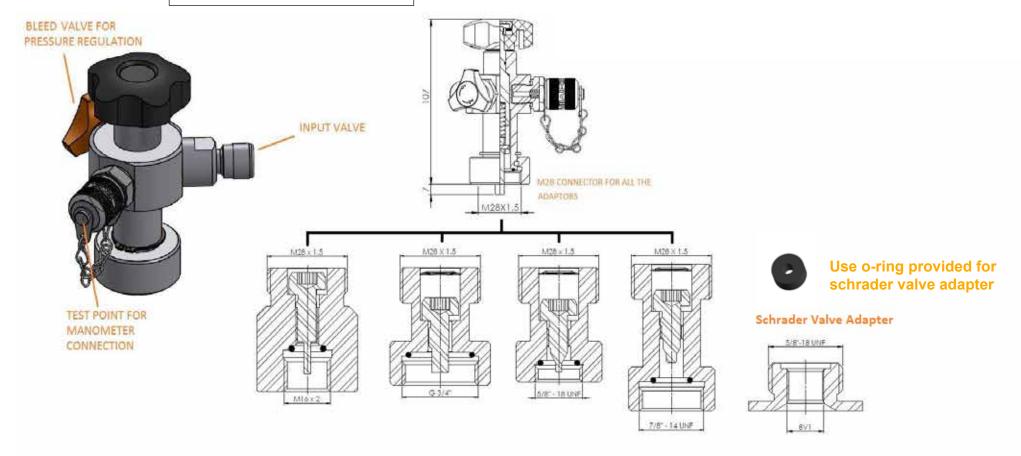


Standard kit Components:

Description	Note	N°item
Plastic case		Grey
Charging tool shell – Pmax 400bar/5800psi	M28 x 1,5	1
Flexi tube about 2m – Pmax 400bar/5800psi	1/4 - 1/4	13
Bottle adaptor (please check manufacturer instruction)	P max 200bar/2900 psi	2+3
Pressure gauge with glycerin – test coupling connection	D63mm (0-350)psi	9
Pressure gauge with glycerin – test coupling connection	D63mm (0-3500) psi	10
Gasket set of precharging kit		11
Nitrogen accumulator valve adaptor	M28x1,5 – 5/8" 18 UNF	7
Nitrogen accumulator valve adaptor	5/8" 18UNF – 5/16 (8V1)	8
	Schrader valve	
Nitrogen accumulator valve adaptor	M28x1,5 – M16x2	4
Nitrogen accumulator valve adaptor	M28x1,5 – 7/8" 18 UNF	5
Nitrogen accumulator valve adaptor	M28x1,5 - ¾"	6
Hexagon socket screw	Key 6mm	12



AACK-3KHD-USMP Components included as picture





Applications:

- Accumulator inflation
- Accumulator inflation after the replacement of the bladder
- Accumulator pre-charge periodic check
- Accumulator pre-charge check during the installation phase
- Accumulator pre-charge variation

Safety Instructions:

Before any use of the pre-charging kit tool, carefully read the direction and safety instruction in this guide.

In any case, observe the pressure limits indicated on the various appliances. If necessary, refer to the applicable operating instruction.

Before any nitrogen pressurization measurement, the accumulator of the hydraulic circuit under pressure has to be isolated and discharge on the hydraulic side. If required, immobilize it and define the safety zone.

Only use the nitrogen purity >/= 99,8% N2 to pressure the accumulators.

The installation of a pressure reducer between the nitrogen bottle and the tester and pressurizer is mandatory.

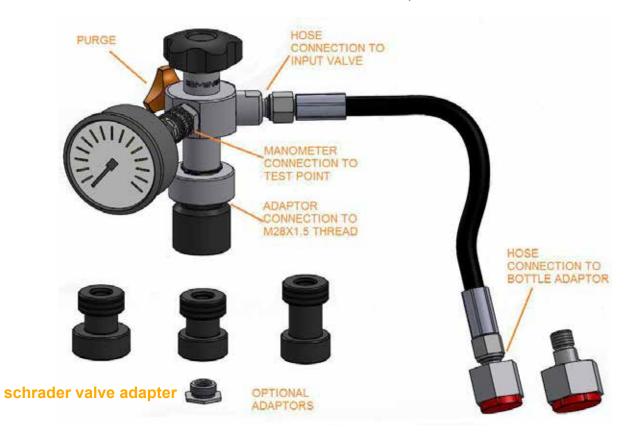
Verifying the Inflation Pressure:

Recommendations: Before proceeding to any operation concerning the initial pressurization of an accumulator, consult the applicable operating instruction. **Pressurization limits**: According to models refer to the accumulator manual. The nitrogen pressure varies as a function of the gas temperature. After each inflation and deflation of nitrogen, wait for the temperature to stabilize before checking the pressure. This may last several minutes or several tens of minutes depending on the accumulator size. Never exceed the maximum permissible pressure PS or the maximum inflation pressure Po Max indicated on the accumulator or in the instructions accompanying the appliance.



Accumulator:

- Remove the plug on the inflation valve side of the accumulator.
- Select the adapter according to the inflation valve.
- Take the Regulator shell from the case, install the pressure gauge compatible with the pressure to be verified, and make sure the bleed valve in safety closed.







Connection and Operation:

- Connect the bottle to a ¼ "BSPP female end of the fitted hose: choose the adapter you need for the bottle connection (different country = different adaptor), screw it on the bottle and proceed with the connection to the female fitting of the hose.
- Take the gauge adapter, remove the plastic dust cap in the ¼ " female thread, take a pressure gauge from the case and screw it onto the gauge adapter.
- Get the charger, unscrew the metal cap and screw the pressure gauge onto the male thread.
- Choose the accumulator adapter (5/8" 18UNF M16x2 8V Schrader 7/8" 14UNF 3/4" ect.) according to your needs, and screw it on the charger at the female thread M28X1.5.
- Screw the charger onto the accumulator.
- Connect the bottle to the accumulator through the fitted hose.
- Open the passage through the black knob.
- Use the purge to adjust the pressure as needed by rotating the orange knob.
- When the needed pressure is reached (monitor through the pressure gauge), disconnect the fitted hose.
- Make sure that the pre-charge pressure is adequate for the application.
- Make sure that the hydraulic pressure never exceeds the maximum allowed value indicated on the accumulator body.



<u>Taking into account the temperature influence on the pre-charge pressure</u>: to observe the working pressure to accumulators, it is suggested to adjust the inflation pressure Po according to the operating or control temperature (see graphic)

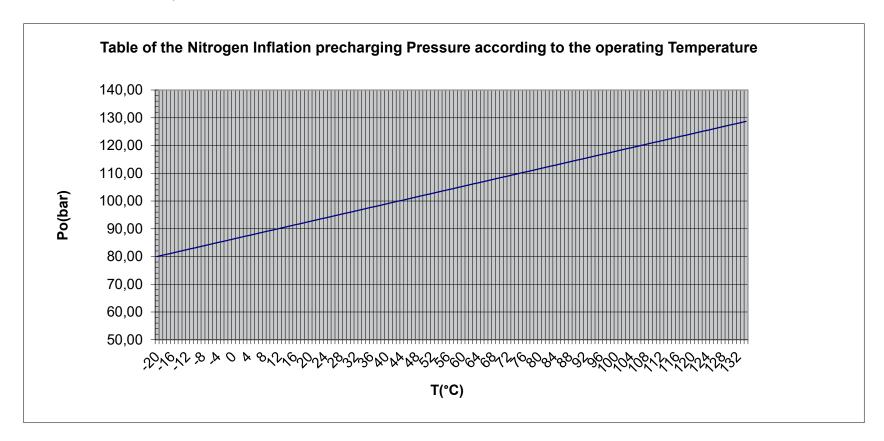
Whereby

Po (t2): inflation pressure at control temperature in Bar (absolute value)

Po (t): nitrogen pressure Po at 20°C in Bar (absolute value)

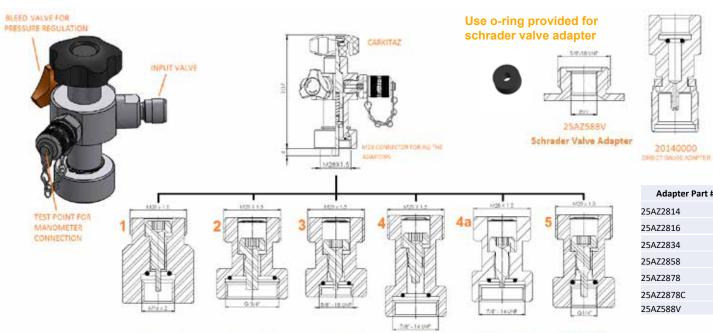
T2: control of gas inflation temperature

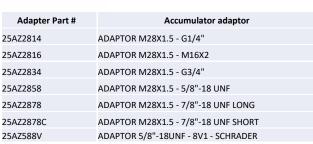
To: reference temperature 20°C





You can choose other customized version - other nitrogen bottle adaptor - other accumulator







25AZ2858

25AZ2834

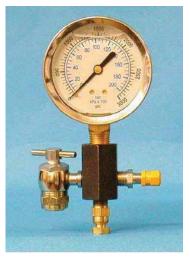
25AZ2878



25AZZ878C (SHORT VERSION) 25AZ2814

25AZ2816

BLADDER ACCUMULATOR ACCESSORIES



SCA-313 Charging & Gauging Head Assembly



SCA-31 3,000 psi Pressure Gauge SCA-49 2,000 psi Pressure Gauge SCA-51 5,000 psi Pressure Gauge



SCA-53 1-15 Gallon Valve Stem SCA-52 5,000 psi Gas Valve SCA-47 Valve Stem Extension



SCA-314 Head Assembly



SCA-44 Hose Assembly



SBP Bag Puller Rod SCH-CT Valve Core Cross Type Tool SCH-SW Spanner Wrench



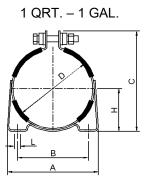
SCA-3 Complete 3,000 psi Charging Assembly

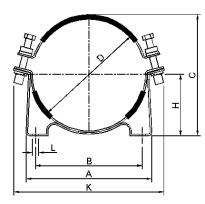


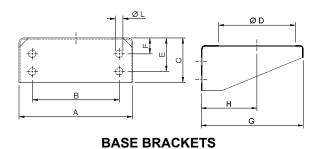
Mounting Brackets for Accumulators

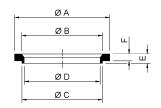
Designed for specific use on Accumulator installation, both Clamps & Bases are supplied complete with Rubber Support to ensure rigid mounting.

21/2 GAL. - 15 GAL.









RUBBER RINGS

ACCUMULATOR BRACKETS

ACCUMULATOR BRACKETS												
MODEL	A In. (mm)	B In. (mm)	C In. (mm)	D (DIA.) In. (mm)	H In. (mm)	K In. (mm)	L (Slot) In. (mm)		WIDTH In. (mm)			
SCH- 1 QRT	5.26 (134)	3.94 (100)	6.68 (170)	4.51 (115)	2.87 (73)		0.35 x 0.50 (8.9 x 12.7)		1.25 (32)			
SCH- 1 GAL	7.50 (191)	6.02 (153)	9.00 (229)	6.75 (171)	3.94 (100)		0.35 x 0.50 (8.9 x 12.7)		1.25 (32)			
SCH-2.5- 15 GAL	10.0 (254)	8.50 (216)	9.67 (246)	8.90 (226)	4.84 (123)	12.5 (317)	0.59 (15)		1.58 (40)			
BASE BR	BASE BRACKETS WITH RUBBER RINGS											
MODEL	A In. (mm)	B In. (mm)	C In. (mm)	D (DIA.) In. (mm)	E In. (mm)	F In. (mm)	G In. (mm)	H In. (mm)	L (DIA.) In. (mm)			
SB- 1 GAL	10.2 (260)	7.87 (200)	3.94 (100)	4.72 (120)	2.95 (75)	1.38 (35)	8.86 (225)	3.94 (100)	0.67 (17)			
SB-2.5- 15 GAL	10.2 (260)	7.87 (200)	3.94 (100)	6.69 (170)	2.95 (75)	1.38 (35)	8.86 (225)	4.84 (123)	0.67 (17)			
RUBBER	RINGS											
MODEL	A In. (mm)	B In. (mm)	C In. (mm)	D (DIA.) In. (mm)	E In. (mm)	F In. (mm)	USE WITH BASE BRACKET NO.					
SCA-138	5.91 (150)	4.72 (120)	4.69 (119)	4.25 (108)	0.79 (20)	0.59 (15)	SB-1 GAL					
SCA-139	7.87 (200)	6.69 (170)	6.65 (169)	6.26 (159)	0.79 (20)	0.59 (15)	SB-2.5 GAL – 15 GAL					

All dimensions subject to change without notice



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- · High Pressure Pneumatics
- · Hydraulic Accumulators: Piston, Bladder, Diaphragm
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- · Diaphragm Accumulators
- · Accumulator Accessories



- · Diaphragm Accumulators
- · Instrumentation



- · Test Points
- · Diagnostic Equipment

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