

Accumulator

**Accumulator
accessories**

Roth
Hydraulics

**Roth N2
Charging unit**



excellent pressure solutions

Roth N2 Charging unit

The automatically operating N2 charging unit is specially designed and tested for efficient filling or refilling of the gas filling pressure of hydraulic accumulators and storage systems.

Roth products enjoy an excellent reputation worldwide and represent strength and durability. International certifications and approvals ensure global acceptance.

■ Description

The Roth N2 charging unit works automatically until a pre-set pressure is reached. The loading unit enables efficient loading or refilling of hydraulic accumulators, beyond the overflow (natural pressure equalization) and thus enables almost complete emptying of commercial nitrogen bottles.

Hydraulic accumulators can be filled up to 230 or 380 bar with nitrogen.


The loading unit is compact and can be transported and operated by only one person. In combination with the Roth filling and testing device, the Roth N2 charging unit is compatible with all filling connections worldwide.

■ Components

The Roth N2 charging unit contain the components:

- > Integrated hydraulic unit
- > Compression accumulator
- > Electronic pressure switch
- > Electric control with connection cable
- > Connecting hoses

■ Specifications

Overview Roth N2 charging unit	
Dimensions [mm]	Length=445, width=650, height=970
Weight [kg]	85
Transport and operation	Mobile, one person
Operating pressure [bar]	230/380
Volume flow [l/min.]	1,7/0.9
Tank capacity [ca. l]	12
Volume piston accumulator [l]	1,7
Filling hose nitrogen bottle	
Length [m]	3
Nominal width [DN]	8
Connection	M20 x 1,5 [DKOS 8, screw series 12S] (Use gas bottle adapter from Roth filling and testing equipment)
Filling hose of filling and testing kit	
Length [m]	6
Nominal width [DN]	8
Connection	M20 x 1,5 [DKOS 8, screw series 12S] (Use gas bottle adapter from Roth filling and testing equipment)
Power [Kw]	0,75
IP protection	IP 55
Electrical connection	CEE 5-polig, 16 A, 400 V – 50 Hz (others available on request)
Cable length [m]	5
Acceptance pressure device	DGR 2014/68/EU
Subject to technical modifications.	

■ Accessory Roth filling and testing device

The Roth filling and testing device is used to control nitrogen pressure and to fill membrane, bladder and piston accumulators with nitrogen. The Roth N2 charging unit can be used globally in combination with the Roth filling and testing device with all filling connections worldwide.



ROTH Hydraulics GmbH

(former Bolenz & Schäfer GmbH)

Lahnstraße 34

D-35216 Biedenkopf-Eckelshausen

Germany

Phone: +49 (0) 64 61 / 933-0

Fax: +49 (0) 64 61 / 933-161

Email: service@roth-hydraulics.de

www.roth-hydraulics.de



ROTH Hydraulics (Taicang) Co., Ltd.

(former BSD Hydraulic Technology (Taicang) Co., Ltd.)

Building 14 A, No. 111,

Dongting North Road, Taicang City,

Jiangsu Province 215400, P.R. China

Phone: +86 (0) 512 / 53 20 88 36

Fax: +86 (0) 512 / 53 20 88 39

Email: service@roth-hydraulics.cn

www.roth-hydraulics.cn



ROTH Hydraulics NA Inc.

One General Motors Drive,

PO Box 245, Syracuse

New York 13211

USA

Phone: +1 (0) 315 / 475 0100

Fax: +1 (0) 315 / 475 0200

Email: service@roth-hydraulics.com

www.roth-hydraulics.com