

Technical Catalogue
Catalogo Tecnico

EN/IT

RPA120

Monolith  **series**
technology
Hydraulic Piston Accumulators



Agricultural, Forest,
Municipal vehicles, Naval, Construction
Machines, Industrial applications

Revortex

Innovation + High Performance + Durability

3.220

Hydraulic piston accumulators up to 250 bar

Accumulatori Idraulici a pistone fino a 250 bar

Product exposed to burst test in the laboratories
Prodotto sottoposto a prove di scoppio presso i laboratori



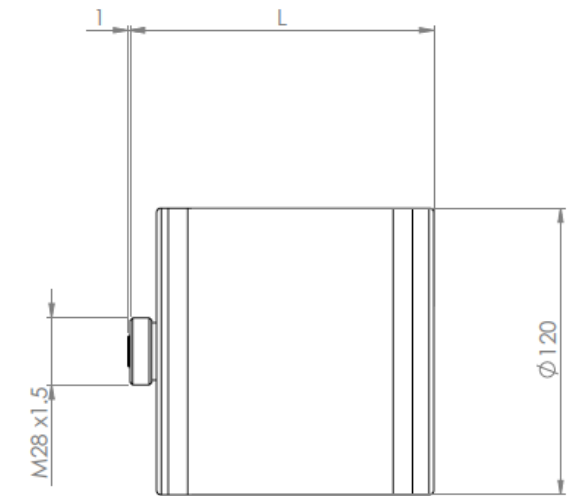
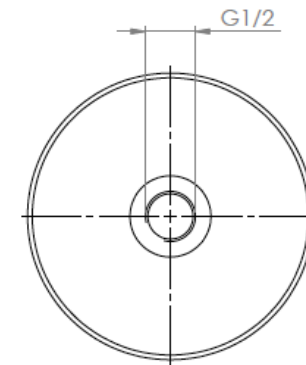
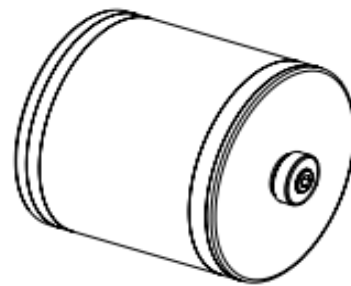
Accumulator type Accumulatore tipo RPA120

Revortex specific construction
 Costruzione a specifiche Revortex

Decoding key / chiave di decodifica

R PA 120 / 05 60 Oxxx

PN up to / fino a 250 bar
 From-up to / Da-fino a 0,32 to 1 liter
 OVER 1 Liter on request
 OLTRE 1 litro a richiesta



R= Revortex

PA= Piston accumulator - Accumulatore a pistone

120
 EXT. DIAMETER 120mm
 DIAMETRO ESTERNO 120mm

Nominal volume / volume nominale (liter . litri) external diameter diametro esterno	Nominal volume Volume nominale
120 mm - Standard	0,32l
120 mm - Standard	0,5 l
120 mm - Standard	0,75l
120 mm - Standard	1 l

OVER 1 LITER ON REQUEST - EXT. DIAM 120mm
 A RICHIESTA SOPRA 1 LITRO-DIAM,EST. 120mm

Pre charge pressure (20°C)
 Pressione di precarica (20°C)

Pressure / PressioneBar

Standard NBR/PUR seals
 Tenute standard in NBR/PUR

Options Opzioni

- O4 Version for low temperature range -30°C to + 80°C PUR seals / versione per basse temperature tenute PUR da -30°C a +80°C
- O6 Version for high temperature range FKM seals -15°C to + 160°C / versione per alte temperature tenute FKM da -15°C a +160°C
- O3 Low friction Piston, high speed Piston, Bassa frizione, alta velocità - max 3,5 m/sec
- O020 Oil connection with key 30mm socket / Connessione olio con presa chiave 30mm
- O014 - O016 O014-UNF oil connection 3/4"UNF or O016- 7/8"UNF
 Connessioni lato olio o014-3/4" UNF o O016. 7/8" UNF

STANDARD COATING - BLACK ANTICORROSIVE COATING C3 (spec. pag 5)
 VERNICIATURA STANDARD - VERNICE ANTICORROSIVA C3 NERO (spec. pag 5)



CONFIGURAZIONI (XXX)	LITRI	L
050	0.5	127.4
075	0.75	154.9
100	1	181.9
150	1.5	242.4
200	2	299.4
300	3	415.4
400	4	531.4

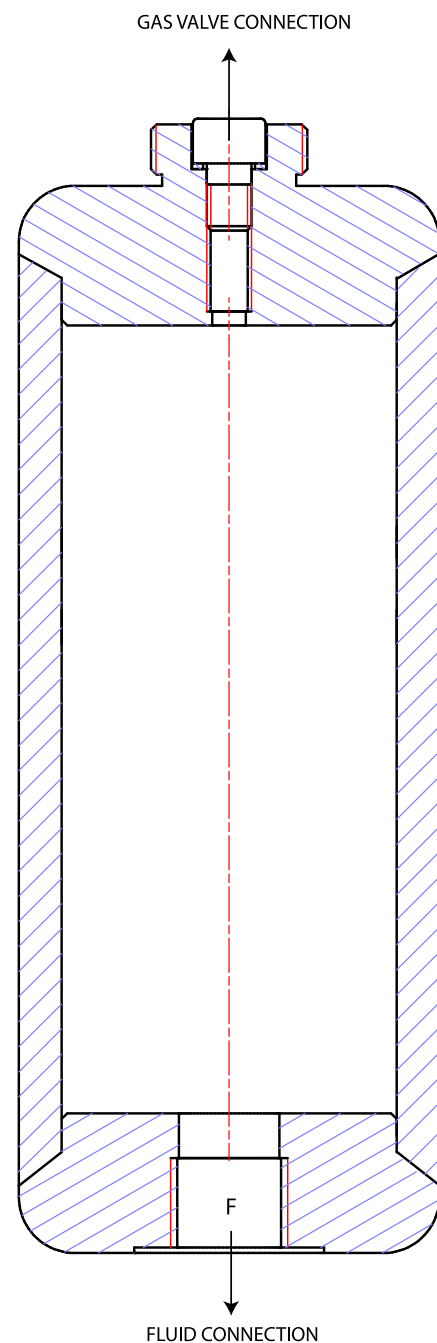
Coating specification / Specifiche vernice

Standard coating color BLACK, RAL9005 anticorrosive Coating for corrosive environment C3.

On request ISO12944-2 C51 CM5 for offshore, mining and excavation environment, refineries, power plants. Rail/Railtrack RT98 systems M20, M21, N2, N4

Vernice standard colore NERO RAL9005 Vernice anticorrosiva per ambienti corrosivi C3.
 Su richiesta ISO12944-2 C51 CM5 per ambienti offshore, minerario, escavazione, raffinerie, centrali elettriche. Treni / ferrovie RT98 Systems M20, M21, N2 , N4

Connections and fluids compatibility Attacchi e compatibilità fluidi



Seals / Fluids:

NBR Acrylonitrile butadiene rubber
RESISTANT TO:
RESISTENTE A:
 Mineral oil HL, HLP
 Flames retarded fluids (group) HFA, HFB, HFC
 Esters Syntetics HEES
 Sea water

PUR Polyurethane
RESISTANT TO :
RESISTENTE A :
 Mineral oil HL, HLP
 Flames retarded fluids (group) HFA

FKM Fluorine rubber
RESISTANT TO:
RESISTENTE A:
 Mineral oil HL, HLP
 Flames retarded fluids (group) HFD
 Esters Syntetics HEES
 Aromatic Hydrocarbons.
 Fuels

NBR Acrylonitrile butadiene rubber
NON RESISTANT TO:
NON RESISTENTE A:
 Aromatic hydrocarbons, Chlorinated hydrocarbons HFD-S , Amines, Ketones, Fluid groups HFD-R, Fuels.

PUR Polyurethane
NOT RESISTANT TO :
NON RESISTENTE A :
 Water, Water glycol HFC, Acids, Alkalis.

FKM Fluorine rubber
NOT RESISTANT TO:
NON RESISTENTE A:
 Ammonia, Amines, Ketones, Skydrol
 HyJet, Steam

How to identify the accumulator precharge:

All the Revortex hydraulic accumulators shows on the adhesive label, the pressure of the nitrogen precharged inside it.

The same information is under the plastic cap, (nitrogen side)

The customer will inform Revortex about the necessary nitrogen pressure to precharge the accumulator.

Without this information from the customer, the accumulator will be precharged with a nitrogen standard conservation pressure.

Conservation pressure is 1 bar

Identify the MAXIMAL pressure Pmax in the plant or in the machinery hydraulic circuit were the accumulator will be connected.

The p max MUST NEVER exceed the accumulator design pressure.

The accumulator RPA120 has a design pressure of 250 bar

Warning!!

Errors in the selection or use of the products (example: piston accumulators) and / or systems described in our catalogues or in the manual, may cause serious personal injury and property damage.

It is extrimly important that all aspects of the application and of the operating conditions and the selected products have been analyzed and reconsidered by the user.

The user following his own tests and evaluations is the only one able to ensure compliance with the performance, safety and cautionary requirements.

before to use the accumulator RPA120, read the referred manual.

MANUAL RPA120-0001

The Revortex RPA 120 Piston accumulators are compliance with provision art. 4.3 of the PED Directive 2014/68/EU in accordance with the good engineering practice.

The Revortex RPA 120 accumulators are rechargeable using the RPAREC-0001 precharge equipment.

Come individuare la precarica di un accumulatore.

Tutti gli accumulatori idraulici Revortex riportano sull'adesivo applicato sull'accumulatore il dato di precarica di azoto

La stessa informazione viene riportata sotto il tappo lato azoto

Il cliente informerà Revortex in merito alla pressione di precarica di azoto necessaria.

Senza l'informazione del cliente, verrà effettuata una precarica standard al fine di conservare l'accumulatore.

Carica di conservazione, 1 bar

Individuare la pressione MASSIMA Pmax dell'impianto o del macchinario sul quale viene montato l'accumulatore.

La pressione massima dell'impianto non deve mai superare la pressione di design dell'accumulatore.

L'accumulatore tipo RPA120 ha una pressione di design di 250 bar.

Attenzione!!

Errori nella selezione o nell'uso dei prodotti e/o sistemi descritti (Per esempio accumulatori a pistone), possono causare gravi lesioni personali e danni alla proprietà. E' fondamentale che tutti gli aspetti dell'applicazione e delle condizioni operative e dei prodotti scelti siano analizzati e riesaminati dall'utilizzatore.

l'utilizzatore a seguito delle proprie prove e valutazioni è l'unico in grado di assicurare la rispondenza ai requisiti prestazionali, di sicurezza e di cautele d'uso.

Prima di utilizzare l'accumulatore idraulico RPA120, leggere il manuale

MANUALE RPA120-0001

Gli accumulatori a pistone Revortex RPA 120 sono conformi alla disposizione art. 4.3 della Direttiva PED 2014/68 /UE in accordo con le buone pratiche di ingegneria.

Gli accumulatori Revortex RPA120 sono ricaricabili, utilizzando l'attrezzatura di precarica RPAREC-0001precarica



WARNING

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It is critical that all aspects of the application and the operating conditions and products chosen are analyzed and re-examined. Making own tests and evaluations, the user is the only one able to ensure compliance with performance, safety and cautionary use requirements.

The general sales conditions are provided by Revortex in the sales offer and in the order confirmation.

Technical information, drawings, images and material characteristics in this catalog are just informative.

Certifications or declarations must be required during the offer request phase.

The logo is owned by Revortex.

Descriptions, materials, product catalogs and price lists can be changed at any time without previous information.

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