

We produce fluid power solutions



Product Overview

Fluid & Motion Control
Filtration & Tank Solutions
Sensors & Measurement
Fluid Management



We make your products better.

ARGO 
 **HYTOS**

Worldwide.

www.argo-hytos.com

GET IN VIRTUAL TOUCH

Augmented Reality allows you to experience your ARGO-HYTOS product in an enhanced, up-close way. Discover functionality and efficiency from a new perspective. Install the AR app and off you go!



Quick and easy: Scan the QR code and install the app.

Alternatively: Open Google Play or the Apple App Store, search for "ARGO-HYTOS AR" and install. Click on the icon "ARGO-HYTOS AR" to start the app.

We wish you an exciting experience.

Discover your ARGO-HYTOS products at their best.
Move around the virtual device and also change the distance.

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A strong brand in fluid technology

We make your products better. Worldwide.



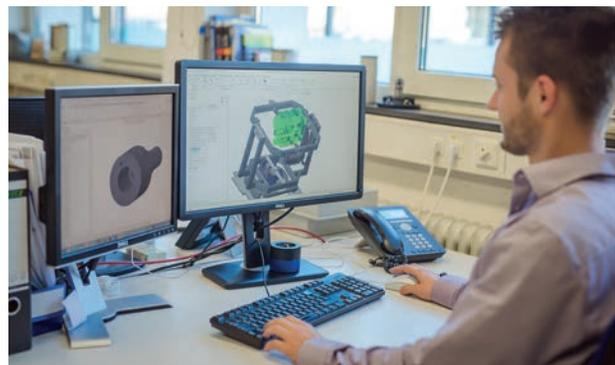
As a medium-sized family business with more than 1400 employees, ARGO-HYTOS has more than 70 years experience in Fluid & Motion Control and Filtration technology in mobile and industrial hydraulics. Especially in the mobile hydraulic sector, ARGO-HYTOS has developed into one of the innovation leaders.

We view ourselves as an international partner implementing innovative and individually designed system solutions together with our customers. The basis for this is a wide modular product range which can be flexibly expanded to customized solutions. We draw on our entire wealth of know-how and give new impetus to modern fluid power technology again and again. ARGO-HYTOS owns a number of patents and in many cases has set new standards in its industry.

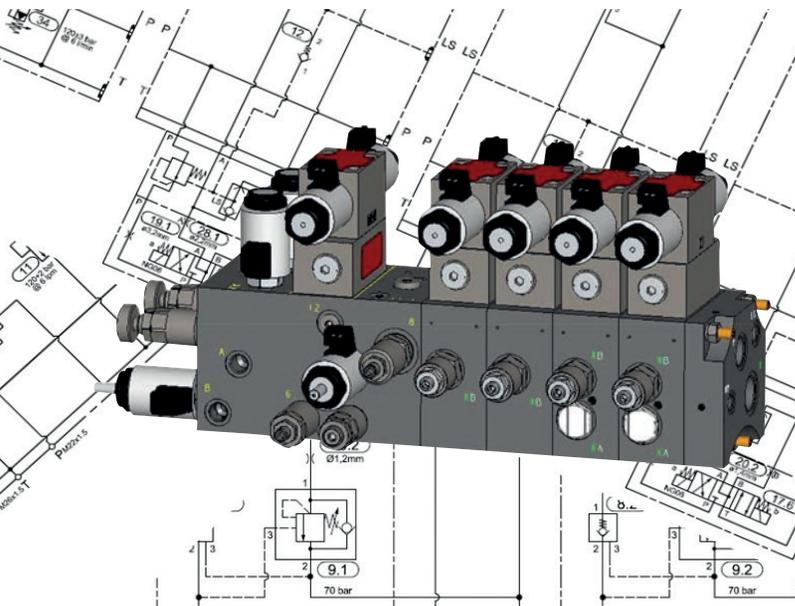
With production companies in Germany, the Czech Republic, Poland, India and China as well as numerous own distribution and assembly companies, the ARGO-HYTOS Group is active worldwide. Additionally, we are cooperating with a network of professional service partners.

ARGO-HYTOS aims to make a substantial contribution to improve customer products and sustainably ensure significant customer benefit.

As a components and system supplier, ARGO-HYTOS is an essential part in the supply chain of the world market leaders when it comes to mobile working machinery and mechanical engineering. ARGO-HYTOS has established an international network of production and distribution companies to provide the full support our successful, global customers are accustomed to. We offer customer-oriented added value and expertise at the customers' location. In this era of increasingly complex technical issues, it is vital to have system partners who take a comprehensive, integrated approach to realizing a project, have extensive experience and can offer innovative solutions in the field of fluid power.



What APPLICATIONS Stands for...



- ... We develop cross-factory system solutions for varied applications: these solutions are based on combinations of already existing standard components of all products designed and produced within the ARGO-HYTOS Group.
- ... We supplement these system solutions with innovative products based on known and mastered technologies of the ARGO-HYTOS Group and with third-party products.
- ... Together with our customers we develop system solutions that reflect the customers' demands regarding purchasing, sales and marketing, production and the aftermarket.
- ... More and more, **total cost of ownership** is a selling point for our customers; we support that by providing solutions specifically tailored to regional needs and requirements.
- ... **Manufacturing expertise in valve, filtration, sensor and drive technology** makes us highly competent to find the best solution for our customers.

What APPLICATIONS Can Do for You...

- ... You determine and define functionality – we provide possible solutions.
- ... You want to redesign, modernize or adapt your machine to a regional market – we have the system knowledge, the components and the project planning competence to help you realize it.
- ... We combine for you local and central value-added shares in order to meet the highest requirements with regard to function safety, reliability and cost effectiveness.
- ... We support your development team in projects from initial inquiry up to the start of series production.
We maintain and observe highest internal standards in the processing of international projects in global core markets thanks to competent local contact persons and applications experts in our applications center.

We speak the language of our customer

An understanding of the application and the functionality is a prerequisite for quickly and efficiently identifying solutions.

The local sales organization brings the linguistic and cultural competence to the process of identifying the solution, applications engineering brings the technological expertise and applications experience.

Thanks to our extensive applications know-how, we are able to assess functionalities and functional interaction; thus, we can competently advise our customers beyond the scope of their question(s).

We make your products better. **Worldwide.**



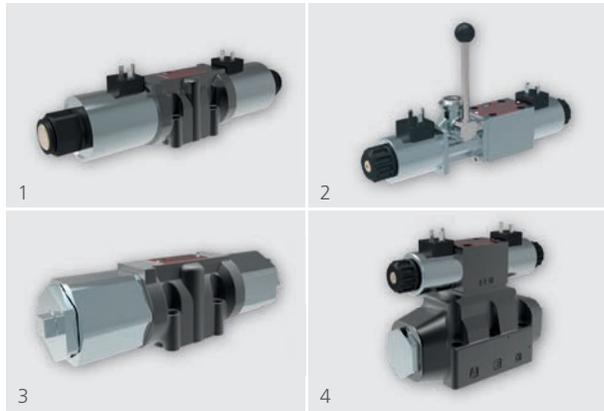
Directional Control Valves
Proportional Valves
Valves in Sandwich Plate Design
Modular Valves
Screw-in Directional Valves
Screw-in Pressure, Flow, Check,
Motion Control Valves
Explosion Proof Valves
Hydraulic Integrated Circuits
Hydraulic Power Units
Application Solutions
Electronic Controllers
Hydraulic Drives
Accessories



System Solutions

**You determine and define functionality –
We provide possible solutions.**

Directional Control Valves

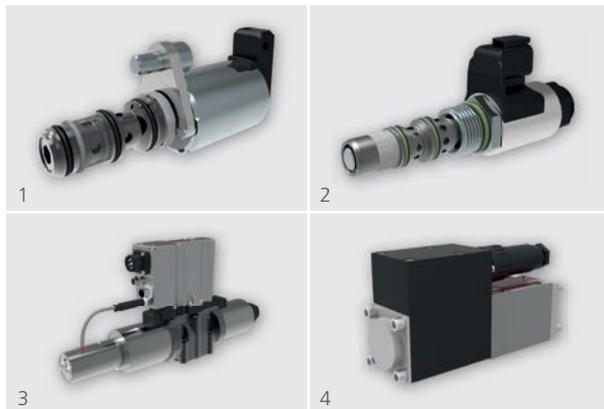


1 RPE4-10; 2 RPER3-06; 3 RPH1-10; 4 RNEH5-16

Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 350/420 bar (5100/6100 psi)
- › Nominal size: CETOP 02, 03, 05, 07, 08
- › Voltage: 12, 14, 24, 27, 48, 205 V DC
24, 120, 230 V AC (50/60Hz)
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › UL, CSA certification
- › Special variants on request

Proportional Valves

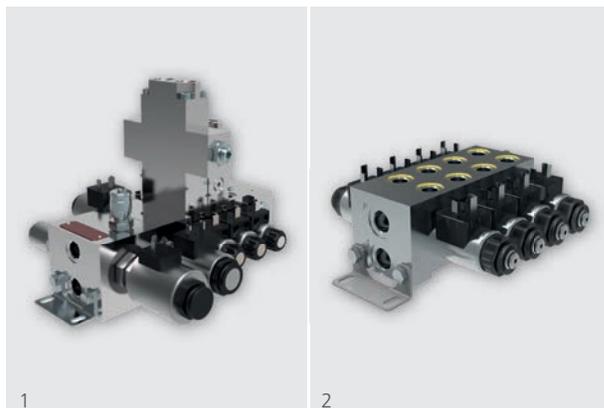


1 PP2P3-W3; 2 SP4P1-B4; 3 PRM9-10; 4 PRL2-06

Features

- › Nominal flow rate: up to 140 l/min (37 gpm)
- › Operating pressure: up to 350 bar (5100 psi)
- › Function: pressure relief/reducing and flow control
- › Type: CETOP, screw-in and slip-in cartridge
- › Voltage: 12, 14, 24, 27, 48, 205 V DC
24, 120, 230 V AC (50/60Hz)
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › CANopen connectivity possible / digital or analog on-board electronics / special variants on request

Valves in Sandwich Plate Design

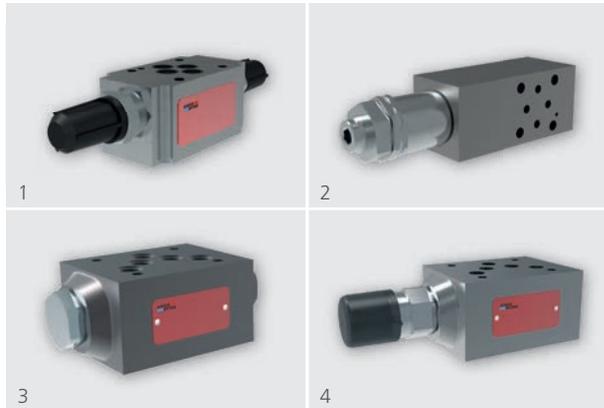


1 System Solutions; 2 RPEK

Features

- › Nominal flow rate: up to 20 l/min (5 gpm) - per section
- › Operating pressure: up to 250 bar (3600 psi)
- › Port sizes: G $\frac{1}{4}$, SAE6
- › Voltage: 12, 14, 24, 27 V DC
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h
- › Compact design, modular and space saving solution
- › Special variants on request

Modular Valves: CETOP



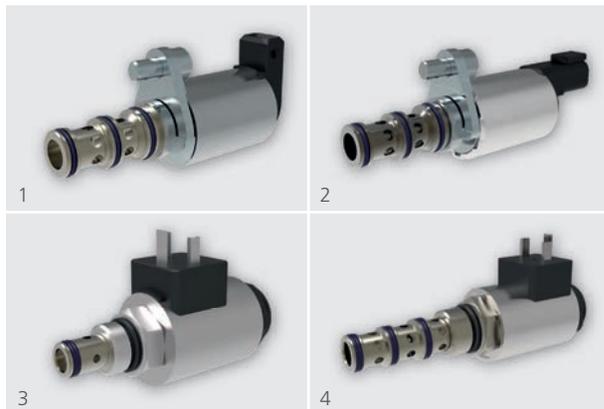
1 2VS3-06; 2 VPP2-04; 3 VRJ3-10; 4 VSO3-10

Features

- › Nominal flow rate: up to 100 l/min (26 gpm)
- › Operating pressure: up to 350 bar (5100 psi)
- › Nominal size: CETOP 02, 03, 05
- › Function: pressure relief/reducing, check and flow control

- › Surface protection (ISO 9227): up to 520 h
- › Various adjusting options

Screw-in Directional Valves



1 PD2E-W3; 2 PD2E-W3A; 3 SD2E-A2; 4 SD2E-B4

Features

- › Nominal flow rate: up to 150 l/min (40 gpm)
- › Operating pressure: up to 420 bar (6100 psi)
- › Type: screw-in and slip-in cartridge
- › Voltage: 12, 14, 24, 27 V DC
- › Connector plug: DIN/EN, Junior Timer, Deutsch
- › IP rating (EN 60529): 65, 67, 69K
- › Surface protection (ISO 9227): up to 520 h

Pressure, Flow, Check and Motion Control Valves



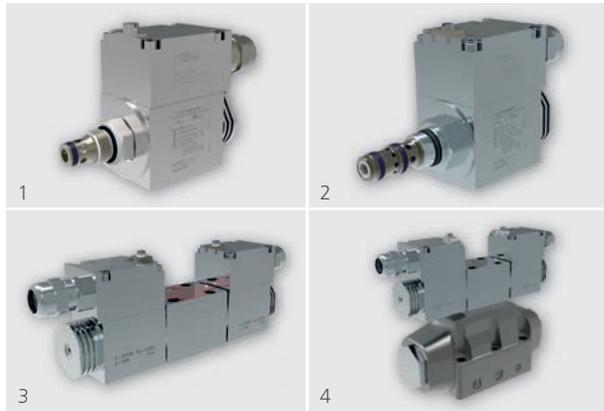
1 SD2H-LA3; 2 SO5A-BP3; 3 SP4A-B3; 4 SR1A-B2

Features

- › Nominal flow rate: up to 150 l/min (40 gpm)
- › Operating pressure: up to 350/420 bar (5100/6100 psi)
- › Function: pressure relief/reducing and flow control, check and motion control

- › Surface protection (ISO 9227): up to 520 h
- › Various adjusting options

Explosion Proof Valves

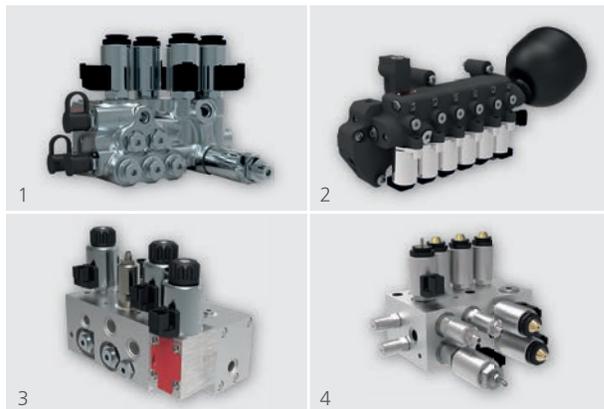


1 SD1EX-A2; 2 SD1EX-A3; 3 RPEX3-06; 4 RNEXH5-16

Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 350 bar (5100 psi)
- › Type: CETOP and screw-in cartridge
- › Function: directional, proportional, flow and pressure control valve
- › Voltage: 12, 24, 48, 110 V DC
110, 230 V AC (50/60Hz)
- › Acc. to directive ATEX 34/2014/EC
- › Temperature class: T4, T5, T6
- › Group: I, II (mining, dust and gas)
- › Various manual overrides

Hydraulic Integrated Circuits

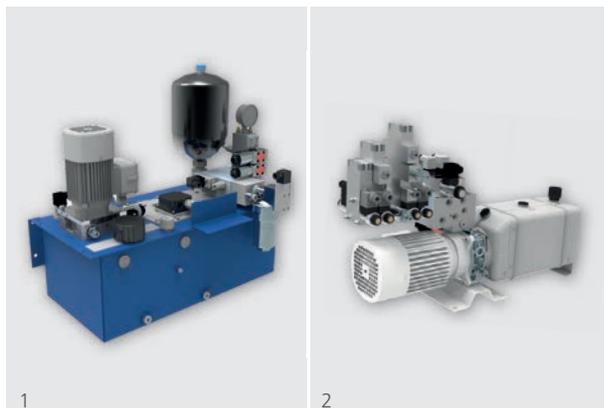


System Solution Blocks

Features

- › Nominal flow rate: up to 600 l/min (158 gpm)
- › Operating pressure: up to 420 bar (6100 psi)
- › Customized systems and subsystems
- › Best solution and efficiency oriented design
- › Surface protection (ISO 9227): up to 520 h

Hydraulic Power Units



1 Power Pack; 2 SMA 05 Power Pack

Features

- › Nominal flow rate: up to 50 l/min (13 gpm)
- › Operating pressure: up to 250 bar (3600 psi)
- › Tank capacity: up to 250 liters (66 gallons)
- › Electric Motor Types: 1~110 V (50/60 Hz)
1~230 V (50/60 Hz)
3~400/460 V (50/60 Hz)
12/24 V DC
- › Special variants on request

Application Solutions with Controls



1 MHPS; 2 Modular Load Sensing System

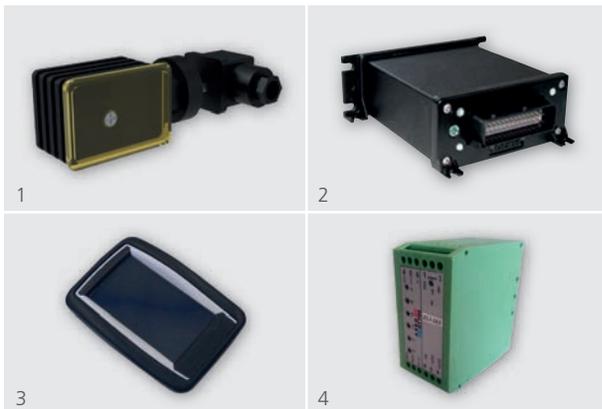
Modular Hydro-Pneumatic Suspension System (MHPS)

- › Improving suspension performance
- › Easy and fast adaptation to application
- › Electronic control unit, touch display and accumulators

Modular Load Sensing System

- › Designed for the complex and variable demands of mobile hydraulics needs
- › Standard modules easily adaptable to specific applications
- › Load sensing control of each working section

Electronic Controllers



1 EL6; 2 ECU; 3 TD; 4 EL3

Features

- › Amplifier for direct assembly on the valves
- › Digital or analog amplifier electronics
- › Plug-in or rail mounting amplifiers
- › Easy-to-use adjustments
- › User friendly software

Hydraulic Drives

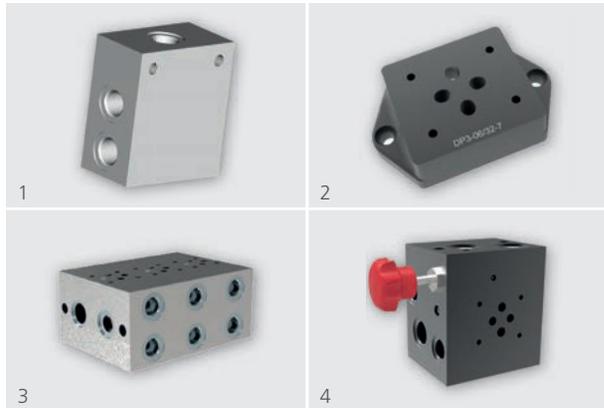


1 GP2L; 2 GP3

Features

- › Displacement: up to 0.18-100 cm³/rev (cc/rev)
- › Operating pressure: up to 320 bar (5100 psi)
- › International standard flanges acc. to SAE, ISO, DIN, GOST
- › High quality aluminum alloys
- › High volumetric efficiency up to 98%
- › Lifetime 3000 working hours

Connecting Plates, Manifolds

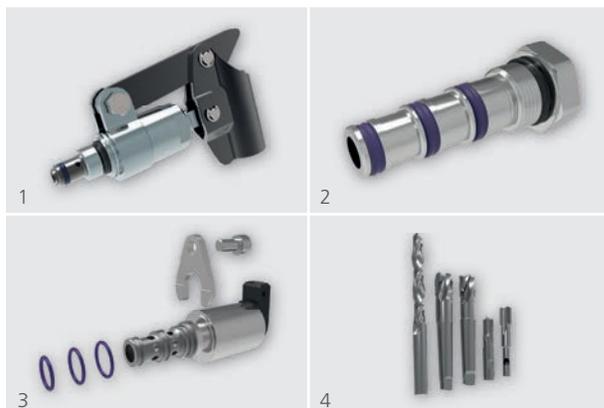


1 SB; 2 DP; 3 PD; 4 ZB

Features

- › Operating pressure: up to 320 bar (5100 psi)
- › Base plates
- › Serial plates
- › Sandwich plates
- › Sub-plates
- › Blanking plates
- › Surface protection (ISO 9227): up to 520 h

Accessories



1 RCS; 2 SCP; 3 SP; 4 SMT

Features

- › Hand pumps
- › Cavity plugs
- › Spare parts
- › Stud and nut kits for vertical stacking assemblies
- › Cavity Form Tools
- › Surface protection (ISO 9227): up to 520 h

Pressure Switches and Transducers



1 PSCD; 2 TSE1; 3 TS4; 4 TSE2-D

Features

- › Mechanical and electronical
- › Precise set point adjustment
- › Basic flange type expandable using connecting or modular plate
- › UL, CSA certification

We make your products better. **Worldwide.**



- Suction Filters
- Return Filters
- Return-Suction Filters
- Filter Cooling Systems
- Pressure Filters
- High Pressure Filters
- Stainless Steel High Pressure Filters
- Filling and Ventilating Filters
- Accessories
- Oil Level Gauges with Thermometer & Dipsticks
- Customized Filter Solutions
- Filter Elements
- Injection Molded Plastic Tank
- HIT - Hybrid Integrated Tank®
- QC - Quick-Connect System

Filtration

System Filters & Tank Solutions -

Your success is our priority

Suction Filters



1 AS 080; 2 S0.0426; 3 LS 025; 4 ES 075

Features

- › Nominal flow rate: up to 350 l/min (92 gpm)
- › Fineness: 100...280 µm (c)
- › Hose connection: 32...60.5 Ø
- › Connection: G½...G2½
-12 SAE, -20 SAE
- › Suction filters to be installed in the suction line of the pump or with thread or hose connection. For in-tank, side-tank and in-line mounting.

Return Filters



1 D 170; 2 E 103; 3 E 222; 4 E 503

Features

- › Nominal flow rate: up to 900 l/min (238 gpm)
- › Operating pressure: up to 10 bar (145 psi)
- › Fineness: 5...100 µm (c)
- › Connection: Ø 17.5...Ø 20.5
(hose connection)
G½...G2½
SAE 2...SAE 2½
-12 SAE... -24 SAE
- › In-line, tank-top mounting or for mounting in a separate return flow tank section, optionally with integrated replaceable ventilating filter [2 µm (c)], or extension pipe and diffuser.

Return-Suction Filters



1 E 084; 2 E 088; 3 E 198; 4 E 998

Features

- › Nominal flow rate: up to 850 l/min (225 gpm)
- › Operating pressure: up to 10 bar (145 psi)
- › Fineness: 10, 16 µm (c)
- › Connection: G¾...G1½
SAE 1½...SAE 2½
-12 SAE... -24 SAE
- › In-line or tank-top mounting, with boost pump connection (0.5 bar charge pressure) for hydrostatic drives.

Filter Cooling Systems

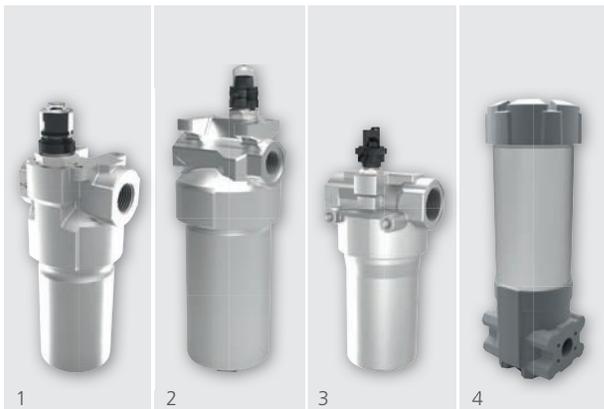


FNK 050

Features

- › Nominal flow rate: up to 45 l/min (12 gpm)
- › Operating pressure: up to 10 bar (145 psi)
- › Fineness: 5 µm (c)
- › Cooling capacity: up to 45 kW
- › Filter cooling systems used as main flow-filter or off-line filter.

Pressure Filters

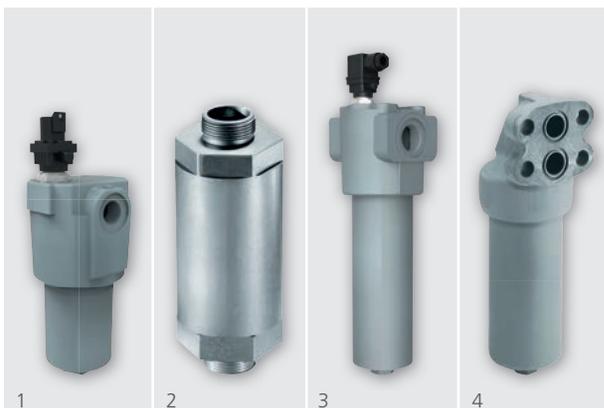


1 D 042; 2 D 072; 3 D 162; 4 FNL 1000

Features

- › Nominal flow rate: up to 2000 l/min (528 gpm)
- › Operating pressure: up to 100 bar (1450 psi)
- › Fineness: 5...30 µm (c)
- › Connection: G½...G2½
-8 SAE... -24 SAE
- › In-line mounting, clogging indicator electrical and / or optical.

High Pressure Filters



1 HD 049, 2 HD 081, 3 HD 172, 4 HD 414

Features

- › Nominal flow rate: up to 1000 l/min (264 gpm)
- › Operating pressure: up to 600 bar (8702 psi)
- › Fineness: 5...100 µm (c)
- › Connection: 2 x Ø 15, 2 x Ø 31 (flange connection)
G½...G1½
-8 SAE... -24 SAE
SAE 1¼...SAE 2
M65 x 1.5...M108 x 1.5 (filter kits)
- › Block mounting / inline mounting / flange connection, optionally reverse flow function, clogging indicator electrical and / or optical.

Stainless Steel High Pressure Filters



HFL 055

Features

- › Nominal flow rate: up to 200 l/min (53 gpm)
- › Pressure: up to 630 bar (9137 psi)
- › Fineness: 10...60 µm (c)
- › Connection: G½...G1
- › In-line mounting, with optical clogging indicators. Other designs are available on request. Suitable for almost all media and applications.

Filling and Ventilating Filters



1 L1.0406; 2 L1.0506; 3 LE.0817; 4 LT.1021

Features

- › Air flow: up to 850 l/min (225 gpm)
- › Oil flow: up to 140 l/min (37 gpm)
- › Fineness: 2 µm (c)
- › Connection: G¾
-12 SAE... -20 SAE
¾ - 14 NPT
M18 x 1.5...M60 x 2
- › Regulation of pressure changes in the reservoir and oil level monitoring. Options: Double check valve, dipstick, "Vandalism proof" types.

Accessories



1 DG 062/DG 064; 2 DG 200; 3 DG 819; 4 DG 040/041

Manometers

- › Optical: green / red -0.25, 1.0 / 2.0 bar (-3.6, 14.5 / 29 psi)

Pressure switches

- › Electrical: Switching pressure -0.15, -0.25, 1.2...2.5 bar (-2.18, -3.6, 17.4...36 psi)

Differential pressure indicators

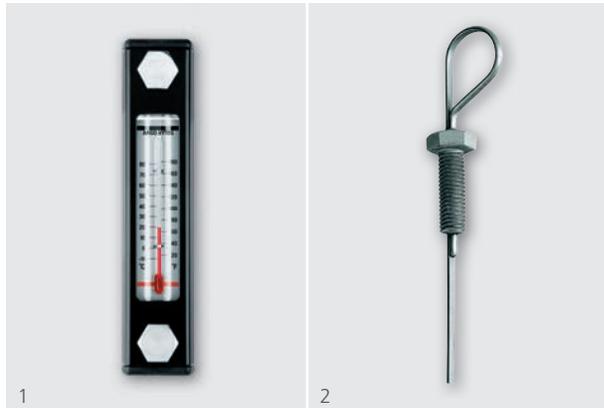
- › Optical: Response pressure 2...5 bar (29...73 psi)

Differential pressure switches

- › Electrical / optical Switching pressure 1.2...5 bar (17.4...72.5 psi)

- › Monitors the clogging condition of suction, return, return-suction, pressure and high-pressure filters.

Oil Level Gauges with Thermometer & Dipsticks



1 C5; 2 C4

Features Oil Level Gauges

- › Level range: 33...194 mm (1.3...7.6 inch)
- › Temperature scale: -10...+80 °C (+14...+176 °F)
- › Indicates the oil level and the oil temperature in hydraulic oil or lubricant reservoirs.

Features Dipsticks

- › Dipstick length: 100...640 mm (3.94...25.2 inch)
- › Bolt thread: M10
- › Checks the oil level in hydraulic oil or lubricant reservoirs.

Customized Filter Solutions



1 E 077; 2 D 145; 3 E 598; 4 LS 250

Features

- › Customized filter and system solutions developed for special applications, and designed in cooperation with our customers.

Filter Elements



1 Paper Element; 2 EXAPOR[®]MAX 2; 3 Screen Element; 4 Glass Fiber Element

Features

- › Glass Fiber Elements
 - EXAPOR[®]MAX 2
 - EXAPOR[®]SPARK PROTECT
 - EXAPOR[®]AQUA
- › Paper Elements
- › Screen Elements
- › Polyester Elements
- › ReFit Elements
- › Glass Fiber Elements
 - MaxFit
 - LightFit

Injection Molded Plastic Tank



Injection Molded Tank

Features

- › Tank capacity: V_{max} up to 60 l (16 gal)
- › Temperature: T_{max} : -30 °C...+100 °C (-22 °F...+212 °F)
Short-term up to +120 °C (+248 °F)
- › Filter function: Return filter 10EX2...30P
Suction filter 16 E...280 µm
Ventilating filter 2CL
Filling filter 140...450 µm
- › Customized design with integrated functions

HIT - Hybrid Integrated Tank®



Hybrid Tank

Features

- › Tank capacity: V_{max} up to 150 l (40 gal)
- › Temperature: T_{max} : -30°C...+100°C (-22...+212 °F)
Short-term up to +120 °C (+248 °F)
- › Filter function: Return filter 10...30 µm
Return-suction filter 10...30 µm
Suction strainer 140...280 µm
Ventilating filter 2 µm
Filling filter 140...450 µm
- › Customized design with integrated functions

QC - Quick-Connect System



Quick-Connect System

Features

- › Temperature: T_{max} : -30 °C...+100 °C (-22 °F...+212 °F)
Short-term up to +120 °C (+248 °F)
- › Pressure: up to 10 bar (14.5 psi)
- › Innovative hose connection technology
- › Assembly without any tools
- › Freely rotatable 360°

We make your products better. **Worldwide.**



Portable Particle Counters
Stationary Particle Monitors
Lubricant Condition Sensors
Signal Generator
Data Handling
Software



Industry 4.0

Predictive Maintenance –

Enter the digital way of Condition Monitoring!

Portable Particle Counters



1 OPCom Portable Oil Lab; 2 OPCount

Features

- › The OPCom Portable Oil Lab is a mobile oil laboratory with which the oil cleanliness and the oil condition in hydraulic and lubrication systems can be measured quickly and easily.
- › The OPCount is a particle counter, designed for stationary or mobile operation. With its touch display and keypad it can be easily operated anywhere.

Stationary Particle Monitors



1 OPCom; 2 OPCom Phosphate Ester; 3 OPCom without Display; 4 OPCom FerroS

Features

- › The OPCom Particle Monitor is a compact particle monitor for continuous monitoring of the contamination in hydraulic fluids and lubricants.
- › Special variants are available - for monitoring aggressive fluids, such as phosphate ester, or a version without display for harsh conditions, among others.
- › The OPCom FerroS is an intelligent screw-in sensor to monitor ferromagnetic wear in hydraulic and lubrication systems.

Lubrication Condition Sensors



1 LubCos Level; 2 LubCos H₂O+II

Features

- › Stationary screw-in sensor for the continuous determination of the oil condition, humidity and temperature in hydraulic and lubricating oils as well as for measuring the fluid level.

Signal Generator for Valve Control



ValVE SiCon

Features

- › SiCon is a stand-alone signal generator, designed for controlling valves with programmable parameters. Thanks to standard connectors, the device is suitable for all valves, regardless of the manufacturer.

Data Handling

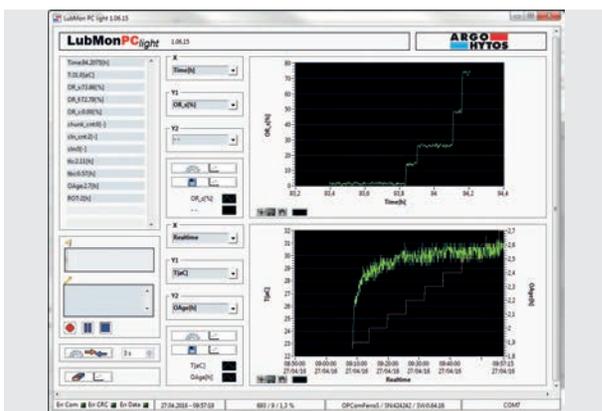


1 LubMon Connect; 2 LubMon Visu

Features

- › The LubMon Connect is a remote gateway for connection of ARGO-HYTOS sensors via a CANopen interface. The data of the connected sensors are automatically transferred to a web database and can be displayed or exported via a website.
- › LubMon Visu is a display unit, suitable for panel-mounting, with integrated data memory for connection of various sensors. ARGO-HYTOS offers a wide range of compatible sensors for monitoring of hydraulic and lubricating fluids. These are, amongst others, particle monitors, temperature, humidity and oil aging sensors as well as sensors for monitoring of the filter lifetime.

Software



LubMon PClight

Features

- › The software LubMon PClight allows recording, storing and visualizing the incoming data from the condition sensors LubCos H₂O, LubCos H₂O+II, LubCos Level, LubCos Vis+ and OCom Particle Monitor.

We make your products better. **Worldwide.**



- Off-line Filters
- Off-line Filters Units
- Filter Cooling Systems
- Oil Service Units
- Oil Condition Sensors
- Compact Filter Pack



Oil Services

Fluid Management –
Keep your oil clean and smooth!

Off-line Filters



1 FN 300; 2 FNS 040

Features

- › Nominal flow rate: up to 650 l/min (172 gpm)
(with flow control valve: up to 6 l/min (1.6 gpm))
- › Operating pressure: up to 12 bar (174 psi)
(with flow control valve: up to 350 bar (5100 psi))
- › Fineness: 3, 5, 10 µm (c)
- › Connection: G¼...G1, SAE 2½
- › Off-line filters for application in low pressure circuits or with flow control valve for connection to the high pressure line
- › Special variants on request

Off-line Filter Units



1 FNA 045; 2 FNA 008

Features

- › Nominal flow rate: up to 45 l/min (12 gpm)
- › Operating pressure: up to 6 bar (90 psi)
- › Fineness: 3, 5, 10 µm (c)
- › Electric motor types: 1~110 V (50...60 Hz)
1~230 V (50...60 Hz)
3~400 V / 460 V (50...60 Hz)
24 V DC
- › Connection: up to G1¼
- › Filter Units for first fit or for retrofitting in existing systems
- › Special variants on request

Filter Cooling Systems

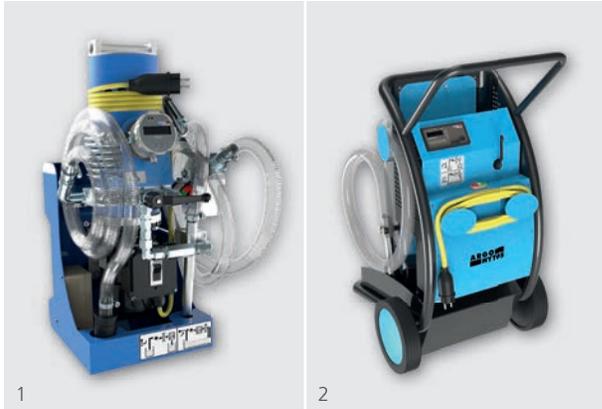


FNK

Features

- › Nominal flow rate: up to 45 l/min (12 gpm)
- › Operating pressure: up to 10 bar (145 psi)
- › Fineness: 3, 5 µm (c)
- › Cooling capacity: up to 45 kw
- › Filter Cooling Systems used as main flow-filter or off-line filter

Oil Service Units



1 FAPC; 2 UMPC

Features

- › Nominal flow rate: up to 45 l/min (12 gpm)
- › Operating pressure: up to 6 bar (90 psi)
- › Fineness: 3, 5, 10, 16 µm (c)
- › Electric motor types: 1~110 V (50...60 Hz)
1~230 V (50...60 Hz)
3~400 V / 460 V (50...60 Hz)
24 V DC
- › Filter Units for cleaning in off-line filtration or for filling systems with ultra-fine filter elements. Optionally with particle monitor.
- › Special variants on request.

Dewatering Units



1 OPS 550; 2 Exapor AQUA

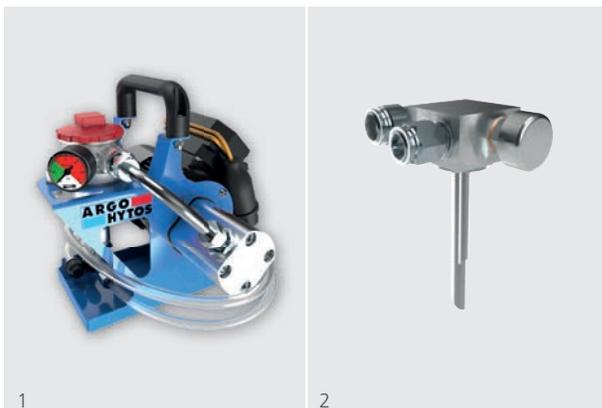
Features

- › Nominal flow rate: up to 10 l/min (2.6 gpm)
- › Operating pressure: up to 4 bar (60 psi)
- › Fineness: 3, 5, 10 µm (c)
- › With dewatering units large quantities of free water can be removed from the oil. The water content is constantly monitored with the water sensor LubCos H₂O+II.

Water Absorbing Filter Elements

- › Small quantities of remaining water can be withdrawn by water absorbing filter elements. Water absorbing filter elements fit in standard versions of off-line filters and filter units.

Compact Filter Pack CFP 03 - exclusive solution for small tanks



1 CFP 03; 2 Adapter

Features

- › Ergonomic design
- › Ultralight and compact
- › Multi-purpose system
- › Simplifies servicing of small power packs
- › Nominal flow rate up to 4 l/min (1 gpm)
- › Working pressure 3.5 bar (50 psi)
- › Weight 9 kg
- › Filter fineness 5, 10, 16 µm
- › Electric motor with switch
- › Hydraulic hoses included
- › Additional adapter for servicing of tanks with only one available connecting port

International

ARGO-HYTOS worldwide

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