



## Program Summary

Filtration & Fluid Management  
Sensors & Measurement  
Fluid & Motion Control



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**Filtration** ARGO-HYTOS manufactures sophisticated filter solutions, mainly applied in hydraulic and lubrication systems as well as in transmissions. The range of solutions that have been implemented extend from stationary industrial plants to mobile applications.

Next to customized developments, that are precisely tailored to customer individual requirements, ARGO-HYTOS offers a comprehensive range of innovative standard solutions for a wide variety of sectors:

- **suction filters**
- **return and return-suction filters**
- **pressure and high-pressure filters**
- **filling and ventilating filters**
- **filter accessories**



### Suction Strainers

Nominal flow rate [l/min]	up to 350
Fineness [ $\mu\text{m}$ (c)]	100
Connection	G $1\frac{1}{2}$ ...G2 $\frac{1}{2}$

Screen elements with female thread to be installed in the suction line of the pump.



### Suction Filters

Nominal flow rate [l/min]	up to 130
Fineness [ $\mu\text{m}$ (c)]	30, 60
Connection	G $\frac{3}{4}$ ...G1 $\frac{1}{4}$ SAE 1 $\frac{1}{2}$ ...SAE 2

Tank top mounting, optionally with foot valve for horizontal mounting.



### Return-Suction Filters

Nominal flow rate [l/min]	up to 600
Pressure [bar]	up to 10
Fineness [ $\mu\text{m}$ (c)]	12, 16
Connection	G $\frac{3}{4}$ ...G1 $\frac{1}{2}$ , SAE 1 $\frac{1}{2}$ , SAE 2

Tank top mounting, with boost pump connection (0.5 bar charge pressure) for hydrostatic drives.



### Return Filters

Nominal flow rate [l/min]	up to 650
Pressure [bar]	up to 16
Fineness [ $\mu\text{m}$ (c)]	5...100
Connection	$\varnothing$ 17.5... $\varnothing$ 20.5 (hose connection) G $1\frac{1}{2}$ ...G1 $\frac{1}{2}$ SAE 2...SAE 2 $\frac{1}{2}$

Tank top mounting or for mounting in a separate return flow tank section, optionally with integrated replaceable ventilating filter (2  $\mu\text{m}$ (c)), resp. extension pipe and diffuser.



### Pressure Filters

Nominal flow rate [l/min]	up to 370
Pressure [bar]	up to 100
Fineness [ $\mu\text{m}$ (c)]	5...30
Connection	G $1\frac{1}{2}$ ... G $1\frac{1}{2}$ , SAE 2 $\frac{1}{2}$

Tank top mounting, clogging indicator electrical and/or optical on request.



### High Pressure Filters

Nominal flow rate [l/min]	up to 1000
Pressure [bar]	up to 600
Fineness [ $\mu\text{m}$ (c)]	5...30
Connection	2 x $\varnothing$ 15, 2 x $\varnothing$ 31 (Flange Connection) G $1\frac{1}{2}$ ...G $1\frac{1}{2}$ SAE 1 $\frac{1}{4}$ ...SAE 2

In-line mounting / Flange connection, optionally reverse flow function, clogging indicator electrical and/or optical on request.



### High Pressure Safety Filters

Nominal flow rate [l/min]	up to 100
Pressure [bar]	up to 315
Fineness [ $\mu\text{m}$ (c)]	60, 100
Connection	M22 x 1.5...M26 x 1.5 G $\frac{3}{4}$



### Filling and Ventilating Filters

Air flow [l/min]	up to 850
Oil flow [l/min]	up to 90
Fineness [ $\mu\text{m}$ (c)]	2
Connection	G $\frac{3}{4}$ M18 x 1.5...M60 x 2

Regulation of pressure changes in the reservoir and oil level indication.

Option: Double check valve, dipstick, "Vandalism proof" -types.





**Fluid Management** As well as reducing maintenance and servicing costs, efficient fluid management is also a key factor in boosting the reliability, productivity and cost-effectiveness of the operation. ARGO-HYTOS supplies application-oriented products for manual and automatic cleaning of hydraulic fluids:

- off-line filters
- off-line filter units
- oil service units
- dewatering units





### Off-line Filters

Nominal flow rate [l/min]	up to 60 (with flow control valve: up to 12 l/min)
Operating pressure [bar]	up to 12 (with flow control valve: up to 350 bar)
Fineness [ $\mu\text{m}$ (c)]	3, 5, 12
Connection	up to G1

Off-line filters for application in low pressure circuits or with flow control valve for connection to the high pressure line.



### Off-line Filter Units

Nominal flow rate [l/min]	up to 45
Operating pressure [bar]	up to 6
Fineness [ $\mu\text{m}$ (c)]	3, 5
Electro 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 G1

Filter Units for first fit or for retrofitting in existing systems.



### Oil Service Units

Nominal flow rate [l/min]	up to 45
Operating pressure [bar]	up to 6
Fineness [ $\mu\text{m}$ (c)]	3, 5
Electro 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 filling systems by using ultra-fine filter elements. Optionally with oil cleanliness monitoring.



### Dewatering Units

Nominal flow rate [l/min]	up to 45
Operating pressure [bar]	up to 6
Electro Motor Types	3~400 V / 460 V (50...60 Hz)

With dewatering units, large water quantities are efficiently withdrawn from the oil.

### 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.





### Portable Oil Diagnostic Systems

Sensitivity [ $\mu\text{m}$ (c)]	4
ISO-MTD-sizes [ $\mu\text{m}$ (c)]	4; 4.6; 6; 9.8; 14; 21.2; 38; 68
Classification	ISO 4406 NAS 1638 MIL-STD-1246C NAVAIR 01-1A-17
Pressure [bar]	0.5...420
Temperature [ $^{\circ}\text{C}$ ]	Pressure fluids: 0...+90 Ambient: +5...+50
Operating modes	Bottle sample analysis, online-analysis
Data transmission	RS 232



### Stationary Particle Monitor

Sensitivity [ $\mu\text{m}$ (c)]	4
ISO-MTD-sizes [ $\mu\text{m}$ (c)]	4; 6; 14; 21
Classification	ISO 4406
Pressure [bar]	0.5...500
Temperature [ $^{\circ}\text{C}$ ]	Pressure fluids: -20...+60 Ambient: -20...+60
Data transmission	RS 232, RS 485, analogue, 0.5 V, IrDa

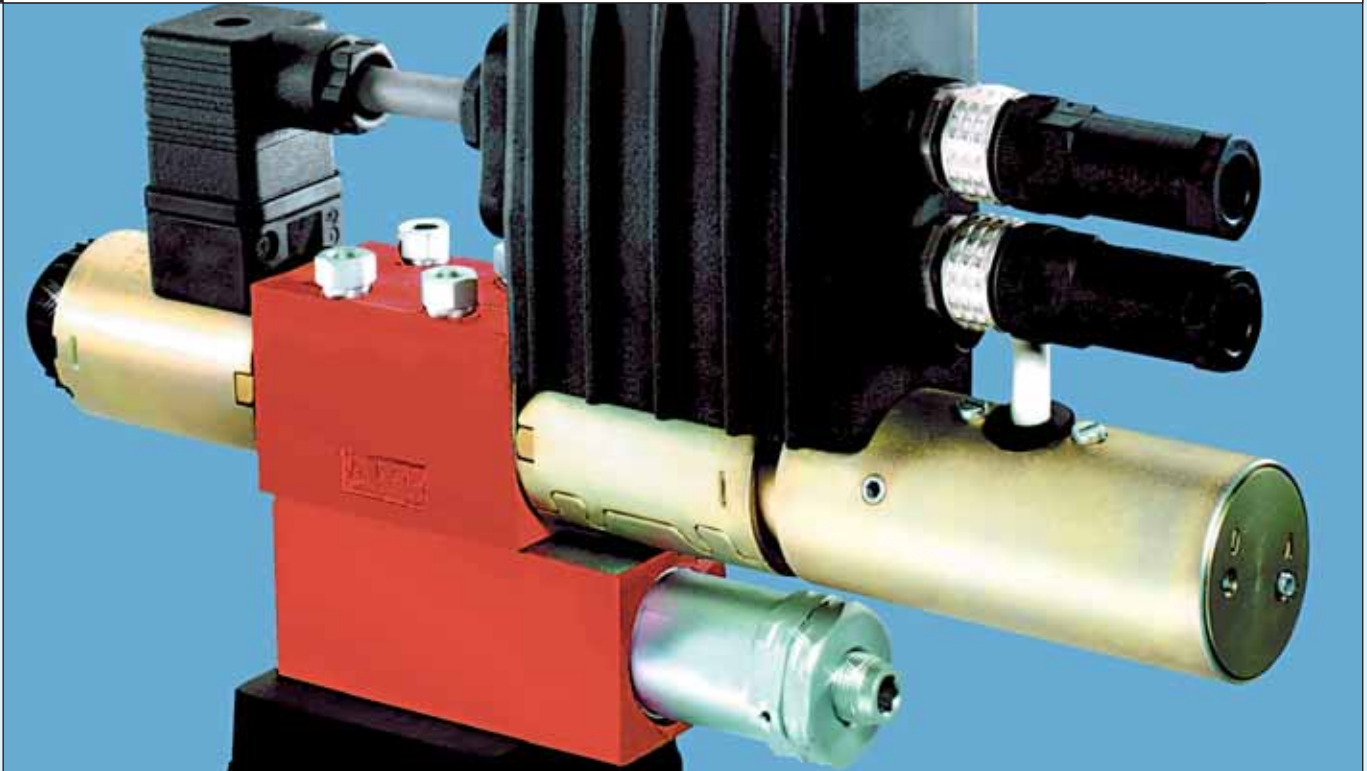


### Software for Portable Oil Diagnostic System

For complete control of the Portable Oil Diagnostic System from the control window of the software. Structure of a data bank according to any criteria. Issue of certificates. Report of chronological measuring processes.

### Software for Stationary Particle Monitor

DDE-Server to record data and as interface driver for other software packets.



## Fluid & Motion Control

ARGO-HYTOS' expertise in control technology is gained from more than 50 years' experience. We focus here on a wide range of valves, power units and integrated manifolds featuring all commonly used design features and functions, together with proportional valves and the associated control electronics:

- direct operated directional valves in CETOP 02 to CETOP 05 and pilot operated valves in CETOP 07 and CETOP 08
- valves subplate and sandwich type – flow control, pressure and check valves in CETOP 02 to CETOP 05
- cartridge valves
- direct operated proportional valves with compensator sandwich valve, in CETOP 02 to CETOP 05
- analog and digital electronic control units – on-board, or for installation in control cabinets
- power pack assembly kits
- customized control blocks

We especially focus on developing customised solutions based on tried-and-tested fundamental technologies, specifically adapted to the requirement profiles in each individual case.



**Directional Control Valves,  
solenoid operated**

Size	NG04 to NG25
Pressure [bar]	up to 350
Flow [l/min]	up to 600



**Directional Control Valves,  
other operations**

Size	NG04 to NG10
Pressure [bar]	up to 320
Flow [l/min]	up to 140



**Directional Control Valves**

Size	NG03
Pressure [bar]	up to 250
Flow [l/min]	up to 20



**Screw-in Cartridge Valves**

Size	NG04 to NG06
Pressure [bar]	up to 350
Flow [l/min]	up to 60



### Proportional Directional Control Valves / Electronics / Pressure Compensators

Size	NG04 to NG10
Pressure [bar]	up to 320
Flow [l/min]	up to 60



### Pressure Valves

Size	NG04 to NG10
Pressure [bar]	up to 320
Flow [l/min]	up to 150



### Check Valves

Size	NG04 to NG30
Pressure [bar]	up to 320
Flow [l/min]	up to 400



### Flow Control Valves

Size	NG04 to NG10
Pressure [bar]	up to 320
Flow [l/min]	up to 100



**Connection Plates, Manifold Plates**

Size	NG04 to NG10
Pressure [bar]	up to 350
Flow [l/min]	up to 140



**Assembly Kits for Compact Hydraulic Power Packs**

Motor output [kW]	up to 3
Pressure [bar]	up to 250
Flow [l/min]	up to 17

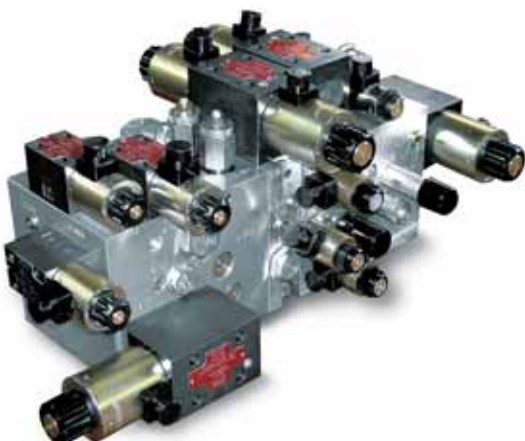
**Customized Power Packs**

Motor output [kW]	up to 7.5
Pressure [bar]	up to 320



**Power Units with Oil Immersed Electric Motor**

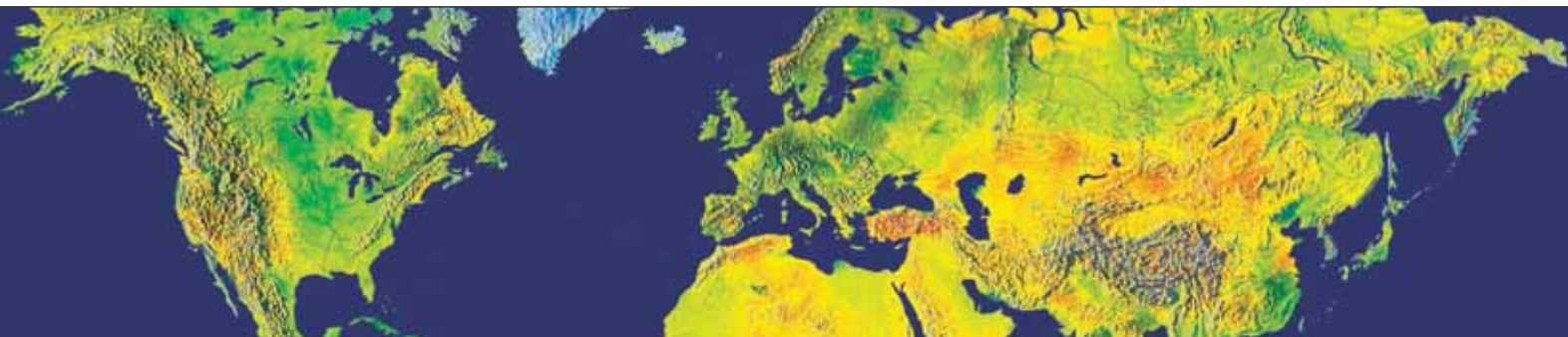
Motor output [kW]	up to 1.5
Pressure [bar]	up to 250
Flow [l/min]	up to 17



**Customized Control Blocks**

Pressure [bar]	up to 320
Flow [l/min]	up to 140

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