

About Us

ARGO-HYTOS - A Strong Brand in Fluid Technology

As a medium-sized family business with more than 1600 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 hydraulics 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. Thereby, we draw on our entire wealth of know-how and give new impetus to modern fluid power technology.



ARGO-HYTOS invests in a new filter element plant in Kraichtal

ARGO-HYTOS owns a number of patents and in many cases has set new standards in its industry.

With production companies in Germany, Czech Republic, Poland, India and China, as well as numerous own distribution and assembly companies, the ARGO-HYTOS Group is active worldwide. Furthermore, 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.

This Newsletter includes ...

Ex Proof Valves, CETOP Subplates and Manifold

Following some of the product and solution highlights from ARGO-HYTOS.

Explosion Proof Valves

This is a group of ATEX and IECEx certified valves designed for use in potentially explosive atmospheres.

There are directional control valves with housing, built-in directional control valves and poppet valves, pilot operated directional control valves and proportional valves.

Valves which are used above all in mining, chemical and petrochemical industries or, dusty environments, for example in mills, limestone or textile production.



	IECEx EPS14.0064 X
	Ex mb I Mb
AC	Ex mb IIB T4, T5, T6 Gb
	Ex mb IIIC T135°C, T100°C, T85°C Db
	Ex e mb I Mb
DC	Ex e mb IIB T4, T5, T6 Gb
	Ex tb IIIC T135°C, T100°C, T85°C Db

Ex Proof 2/2 Directional Control Valve, Solenoid Operated, Poppet Type, Direct Acting, "SD1EX-A2/Hxxx/xxxA4-B"

$Q_{max} = 30 \text{ lpm}$; $p_{max} = 350 \text{ bar}$; 3/4-16 UNF ; Temp. Class = T4

- design prevents a surface temperature capable of igniting
- solenoid coil in acc. with directive for explosion-hazard zones
- explosion protection for gas, dust, and mining
- solenoid with encapsulated enclosure
- hardened precision parts
- high flow capacity, transmitted hydraulic power
- leak-free closing up to 3 drops/min
- both ports may be fully pressurised
- wide range of manual overrides available
- coils interchangeable within Argo-Hytos ATEX/IECEx valves
- the valve is zinc-coated for 520 h protection acc. to ISO 9227

⇒ Lead Time up to 24 pcs. currently 5 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "SD1EX-A2" for further information



	IECEX EPS14.0064 X
	Ex mb I Mb
AC	Ex mb IIB T4, T5, T6 Gb
	Ex mb IIIC T135°C, T100°C, T85°C Db
	Ex e mb I Mb
DC	Ex e mb IIB T4, T5, T6 Gb
	Ex tb IIIC T135°C, T100°C, T85°C Db

Ex Proof 3/2 Directional Control Valve, Solenoid Operated, Poppet Type, Direct Acting, "SD1EX-A3/H2S7/xxxA4-B"

$Q_{max} = 40 \text{ lpm}$; $p_{max} = 350 \text{ bar}$; 3/4-16 UNF ; Temp. Class = T4

- design prevents a surface temperature capable of igniting
- solenoid coil in acc. with directive for explosion-hazard zones
- explosion protection for gas, dust, and mining
- solenoid with encapsulated enclosure
- hardened precision parts
- high flow capacity, transmitted hydraulic power
- leak-free closing up to 3 drops/min
- all ports may be fully pressurised
- wide range of manual overrides available
- coils interchangeable within Argo-Hytos ATEX/IECEX valves
- the valve is zinc-coated for 520 h protection acc. to ISO 9227

⇒ Lead Time up to 24 pcs. currently 5 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "SD1EX-A3" for further information



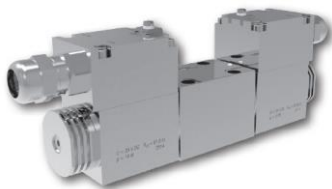
	IECEX EPS14.0064 X
	Ex mb I Mb
AC	Ex mb IIB T4, T5, T6 Gb
	Ex mb IIIC T135°C, T100°C, T85°C Db
	Ex e mb I Mb
DC	Ex e mb IIB T4, T5, T6 Gb
	Ex tb IIIC T135°C, T100°C, T85°C Db

Ex Proof 4/3 Proportional Directional Control Valve, Screw-In Cartridge, "SD2PX-B4/H3Y13-xx-xxB4-B"

$Q_{max} = 25 \text{ lpm}$; $p_{max} = 250 \text{ bar}$; 7/8-14 UNF ; Temp. Class = T4

- design prevents a surface temperature capable of igniting
- solenoid coil in acc. with directive for explosion-hazard zones
- explosion protection for gas and dust, and mining
- solenoid with encapsulated enclosure
- coils interchangeable within Argo-Hytos ATEX/IECEX valves
- coil in 12 or 24 VDC
- the valve is zinc-coated for 520 h protection acc. to ISO 9227

⇒ Lead Time up to 24 pcs. currently 4 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "SD2PX-B4" for further information



	IECEX EPS14.0064 X
	Ex mb I Mb
AC	Ex mb IIB T4, T5, T6 Gb
	Ex mb IIIC T135°C, T100°C, T85°C Db
	Ex e mb I Mb
DC	Ex e mb IIB T4, T5, T6 Gb
	Ex tb IIIC T135°C, T100°C, T85°C Db

Ex Proof CETOP 3 Directional Control Valve, Solenoid Operated, Direct Acting, "RPEX3-063xx/xxA4-B"

$Q_{max} = 60 \text{ lpm}$; $p_{max} = 350 \text{ bar}$; Temp. Class = T4

- design prevents a surface temperature capable of igniting
- solenoid coil in acc. with directive for explosion-hazard zones
- explosion protection for gas, dust, and mining
- solenoid with encapsulated enclosure
- high transmitted hydraulic power up to 350 bar with optimized design to minimize the flow pressure drop
- all ports may be fully pressurised
- five chambers housing design with reduced hydraulic power dependence on fluid viscosity
- wide range of manual overrides available
- coils interchangeable within Argo-Hytos ATEX/IECEX valves
- the valve is zinc-coated for 520 h protection acc. to ISO 9227

⇒ Lead Time up to 24 pcs. currently 3 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "RPEX3-06" for further information



	IECEX EPS14.0064 X
	Ex mb I Mb
AC	Ex mb IIB T4, T5, T6 Gb
	Ex mb IIIC T135°C, T100°C, T85°C Db
	Ex e mb I Mb
DC	Ex e mb IIB T4, T5, T6 Gb
	Ex tb IIIC T135°C, T100°C, T85°C Db

Ex Proof CETOP 3 Proportional Directional Control Valve, Direct Acting, "PRMX2-063xx/xx-xxB4-B"

$Q_{max} = 28 \text{ lpm}$; $p_{max} = 350 \text{ bar}$; Temp. Class = T4

- design prevents a surface temperature capable of igniting
- solenoid coil in acc. with directive for explosion-hazard zones
- explosion protection for gas, dust, and mining
- solenoid with encapsulated enclosure
- the valve opening and resulting flow rate can be modulated continuously in proportion to the reference signal
- five chambers housing design with reduced hydraulic power dependence on fluid viscosity
- coils interchangeable within Argo-Hytos ATEX/IECEX valves
- 12 or 24 V DC coils can be rotated by 90°
- the valve is zinc-coated for 520 h protection acc. to ISO 9227

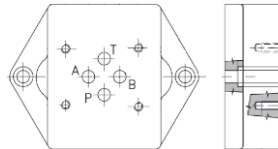
⇒ Lead Time up to 24 pcs. currently 5 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "PRMX2-06" for further information

Connecting Plates & Manifolds

Manifolds connect individual sections of hydraulic circuits and ensure specific control functions via valves.

Standardised designs are characterised by connection flexibility. Specific designs for individual applications range from the economical to technically advanced solutions.

Manifolds are made of aluminium alloy, grey cast iron or steel.



CETOP 3 Subplate, "DP3-06/35-B8"

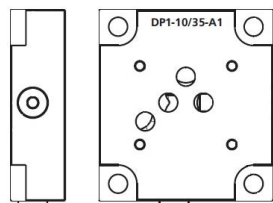
p = 350 bar

P/T/A/B = 3/8" BSPP

please consult data sheet or contact us for other port sizes and forms

- for individual mounting of hydraulic components
- surface is phosphate
- top mounting pattern surface is protected with a transport plate

⇒ Lead Time up to 20 pcs. currently 2 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "DP-04 (06, 10)" for further information



CETOP 5 Subplate, "DP1-10/35-A1"

p = 350 bar

P/T/A/B = 1/2" BSPP

please consult data sheet or contact us for other port sizes

- for individual mounting of hydraulic components
- surface is phosphate
- top mounting pattern surface is protected with a transport plate

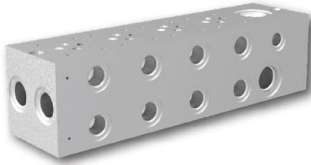
⇒ Lead Time up to 20 pcs. currently 2 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "DP-04 (06, 10)" for further information



Adapter Plate CETOP 3 to 5, "DA-10/06-35-3-ST-N-B"

p = 350 bar

⇒ Lead Time up to 20 pcs. currently 2 weeks EXW factory CZ, subject to prior sales
⇒ Please consult data sheet "DA-06/04, 10/06" for further information



CETOP 3 Serial Plate, Side Ports, Sections 1-10, "DR2-06..."

$p_{\max} (AL) = 320 \text{ bar}$; $p_{\max} (ST) = 350 \text{ bar}$

P/T = 1/2" BSPP ; A/B = 3/8" BSPP ; M = 1/4" BSPP

- optional with unloading and pressure relief valve cavity
- compact design for production cost saving
- maximum 10 parallel modular valve sections
- work ports on the side of the sub-plate
- aluminium serial plate is without surface protection, steel plate is zinc-coated for 520 h protection

- ⇒ Lead Time up to 20 pcs. currently 3 weeks EXW factory CZ, subject to prior sales
- ⇒ Please ask for other stations and cavities for pressure and unloading valves
- ⇒ Please consult data sheet "DR2-06" for further information



CETOP 5 Serial Plate, Side Ports, Sections 1-6, "PD10-NS..."

$p_{\max} (AL) = 250 \text{ bar}$

P/T = 3/4" BSPP ; A/B = 1/2" BSPP

- maximum 6 parallel modular valve sections
- work ports on the side of the sub-plate
- serial plate in aluminium, please contact us for other material
- includes mounting stud kits for plate assembly
- standard version without surface protection

- ⇒ Lead Time up to 20 pcs. currently 3 weeks EXW factory CZ, subject to prior sales
- ⇒ Please consult data sheet "PD10" for further information

Please contact us for options, different port sizes and customised solutions.

Contact Details, Enquiries and Orders:

Robert Kern

Mech. Engineer FH STV, RPEQ, RPEng (Mech)

+61 (0)447 022 477

r.kern@argo-hytos.com

Next Newsletter in December ...

**Oil Conditioning, Service Units,
Particle Counter, Sensors & Measurement**