Please Contact us: Egyptian Hydraulic Engineering Tel.: 02-24501890 Fax.: 02-24501892 info@ehehydraulic.com

We supply compact hydraulics conforming to the Directive 94/9/EC (ATEX 95)

26 C

Construction machinery Mining and tunneling

Lifting and handling devices Transport in chemical industry



Kreis-Dissolver (Co. Niemann) Dissolving of high viscosity pastes



Drilling and refining Oil industry Vakuumdissolver (Co. Grieser) Mixing of special paints





Do you design or manufacture machines for use in explosion hazardous areas?

Within our broad product range you can select the suitable hydraulic pumps, power units, solenoid or purely mechanically actuated valves. Please look closer!



System components from HAWE Hydraulik



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Pumps

Single and dual circuit radial piston pumps for an operating pressure up to 700 bar, that can be selected for almost every flow rate

• R

Max. operating pressure: 700 bar Max. delivery flow: 91,2 lpm D 6010 (Pump alone)

Dual stage pumps for efficient supply for creeping and rapid traverse of one consumer and for dual circuit systems

• RZ

D 6910 (Pump alone)

Max. operating pressure: 700 bar (high pressure) / 150 bar (low pressure) Max. delivery flow: 91,2 lpm (high pressure) / 135 lpm (low pressure)



Power units

Single and dual circuit pumps with an ATEX approved industrial standard motor, coupling, fluid level switch and temperature switch for a high level of safety

Max. operating pressure: 700 bar Max. delivery flow: 91,2 lpm D 6010 H (Hydraulic power unit)

D 6910 H (Hydraulic power unit)

• RZ

• R

- Max. operating pressure: 700 bar (high pressure) / 150 bar (low pressure) Max. delivery flow: 91,2 lpm (high pressure) / 135 lpm (low pressure)
- Customized solutions of HAWE Systemtechnik





Directional seated valves

Individual valves and valve banks with zero leakage for directional control

• 2/2-, 3/2-, 3/3-, 4/3- and 4/2- way ball seated valve	with various actuations
Individual valves	D 7300
Valve banks	D 7302
Individual valves with CETOP 3 pattern	D 7300 N
Max. operating pressure: 700 bar Max. flow rating: 12 lpm	

• Also with directly mounted pressure switch DG D 5440

 2/2-, 3/2-, 4/3 - way cone seated valves 	
Individual valves	D 7765
Valve banks	D 7788
Individual valves with CETOP 3 pattern	D 7765 N
Max. operating pressure: 250 bar Max. flow rating: 20 lpm	
• Also with directly mounted pressure switch DG	D 5440







On/Off-Directional spool valves

Solenoid actuated valves with integrated additional functions for clever controls in compact design

• 4/3-	, 4/2-directional spool valve		
	Individual valves and valve banks	D 7451, D 7951	
	Individual valves with CETOP 3 pattern	D 7451 N	
	Max. operating pressure: 220 bar Max. flow rating: 25 lpm		
• Also	with directly mounted pressure switch DG	D 5440	

Proportional directional spool valves

Proportional directional spool valves according to the Load-Sensing principle for bankable or manifold mounting. They are intended for sensitive motion control via hand lever, joystick or remote control.

• PSL (F) / PSV (F)

Max. operating pressure: 420 bar Max. flow rating: 210 lpm D 7700-3, D 7700-5, D 7700-F



Lifting/Lowering valves

Valve combination used for controlling lifting equipment with one or two single acting hydraulic cylinders

• HSV

D 7032

Max. operating pressure: 220 bar Max. flow rating: 30 lpm

Additional notes:

- The EU Directive 94/9/EC applies to all devices with a potential source of ignition for use in explosive atmospheres. It applies to electrical as well as non-electrical equipment.
- A declaration of conformity by an registrated inspection authority is required for the solenoid of electrically actuated valves. HAWE Hydraulik stamps
 the permissible application field on the type plates of solenoid and valve. The component with the lowest category determines the permissible
 category of the complete control system.
- All non-electrical products of HAWE Hydraulik are conform to the ATEX Directive, as a comprehensive internal risk evaluation has shown.
- The prescribed EC Declaration of conformity (CE marking) accompanies each product.

The coding according to ATEX Directive of the HAWE equipment is:

Mechanical	🐵 II 2 GD c T4
Single coil:	🐵 II 2 GD T135°C IP67 EEx d II B T4
Twin coil:	🖾 II 2 GD T120°C IP67 EEx m II 120°C (T4)
	🐼 II 2G Ex d IIB T4
	🖾 II 2D Ex tD A21 T135°C
or	
Mechanical	🖾 I M2 c
Twin coil:	🖾 IM2ExdI
(intrinsic safe)	🖾 I M2 Ex d ib I

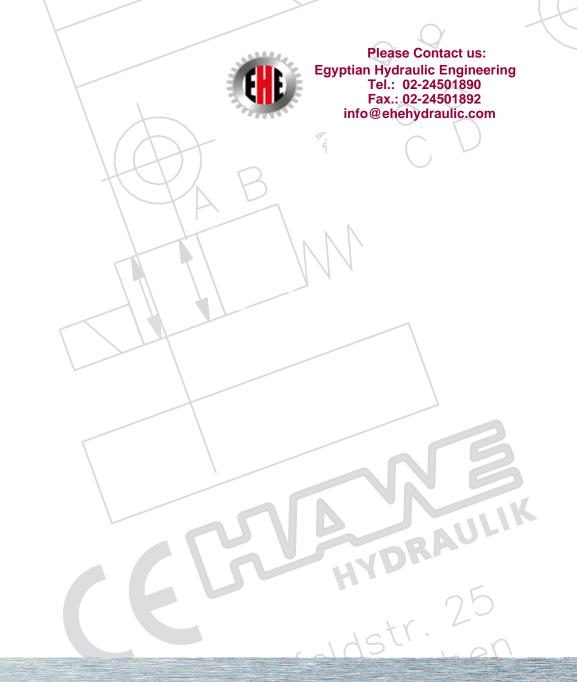
Description:

- I Device group: For use in mining applications
- II Equipment group: Use in all areas except mining
- $\mathbf{2}$ Equipment category: Use in zone 1, 11, 2 and 21
- GD-Explosive atmosphere: G Gas, D dust
- c Type of ignition protection: c constructive safety

m- molded

- d pressure resistant enclosure
- T4 Temperature class: Maximum surface temperature for use in potentially explosive atmospheres: 135 $\,^{\circ}\text{C}.$

Don't hesitate and order detailed brochures with all technical data, dimensions and notes for proper operation at: info@hawe.de, Tel. +49 89 37 91 00-0.





ISO 9001:2000 Zertifikat Nr. 12 100 4503

HAWE Hydraulik SE Streitfeldstraße 25 D-81673 München Tel. ++49 89 37 91 00-0 Fax ++49 89 37 91 00-12 69 info@hawe.de http://www.hawe.de

