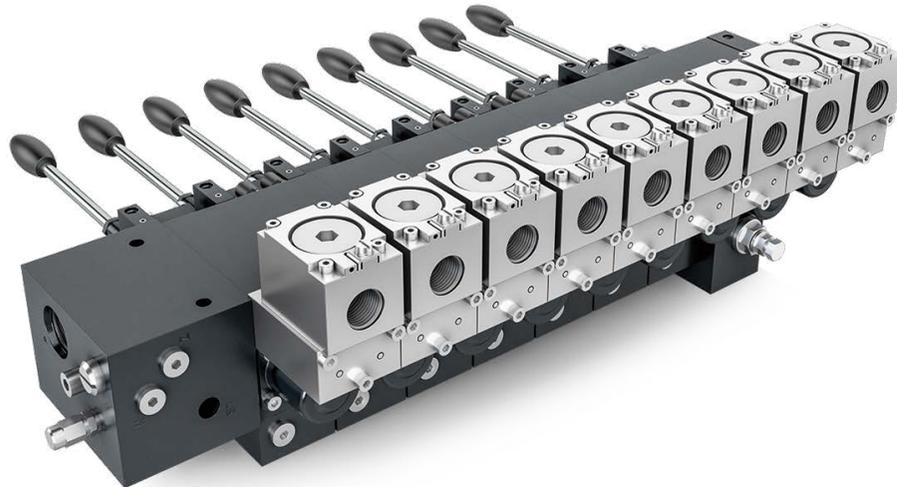


Hydraulics for explosion hazardous areas



For mining, gas-air and dust-air mixtures

The various regional explosion protection directives such as 2014/34/EU (ATEX), IECEx, NEC... influence the selection, installation, use and maintenance of equipment in potentially explosive atmospheres. HAWE Hydraulik has been developing and producing product ranges specifically for this purpose for many years and has them tested and certified by independent institutes. However, explosion protection is only guaranteed if the equipment is used as intended and in accordance with the operating and installation instructions.

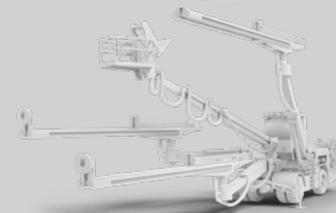
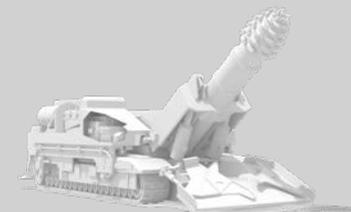
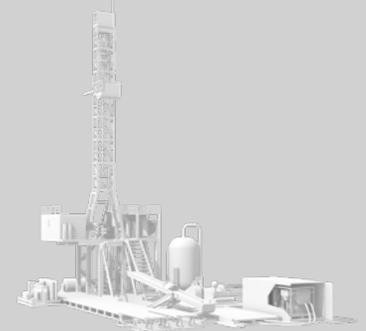


The popular PSL proportional spool valve has a modular design and is ATEX, IECEx, NEC and MA certified.



Region	Certification according to	Classification
EU	ATEX	II 2G Ex db IIB+H2 T4 Gb II 2D Ex tb IIIC T135°C Db
International	IECEx	Ex db IIB+H2 T4 Gb Ex tb IIIC T135°C Db
USA Canada	NEC CEC Annex J MSHA	Cl. I Div. 1 Gp. B, C, D T4 Cl. II Div. 1 Gp. E, F, G T4 Cl. III Div. 1 & 2
China	CCC MA	Ex db ia I Ma EX db I Mb
Australia	ANZEx	Ex db I Mb

Further details and certifications on request and in the 'B ATEX'



Directional spool valve for reliable control of work functions



PSL

- p_{\max} : 400 bar
- Q_{\max} : 240 l/min

- Load-sensing principle
- Flexible design due to modular construction kit
- 3 sizes available, all combinable as one control block



CAN-EX actuation for PSL and PSLF

- CAN-onboard actuation
- Simple commissioning
- Only 1 cable for connection
- CAN actuating head pressure-proof encapsulated



PSLF

- p_{\max} : 400 bar
- Q_{\max} : 1000 l/min

- Load-sensing principle
- As a flange design from the modular system
- 3 sizes and many additional options for maximum flexibility



Based on a modular design principle, the valve manifolds shown here enable simple and compact assembly of customised control systems without any design effort. Simply use a configurator to build the valve manifold you need, using hazardous area approved components.

Directional seated valves with EX-compliant single solenoid

For additional functions that need to be held in position with zero-leakage, or for simple lifting and lowering movements, the HAWE product range offers individual valves with standard connection pattern NG6 or CETOP3. All valves shown are also available with metric threads.



NBVP 16

- p_{\max} : 250 bar
- Q_{\max} : 20 l/min

- Directional seated valve with standard port pattern NG 6 (CETOP 3) - Universal application
- Leakage-free
- Many circuit symbols



G 12

- p_{\max} : 500 bar
- Q_{\max} : 12 l/min

- 2/2-, 3/2-, 4/2-, 3/3- and 4/3-way directional valve for high-pressure applications
- Directly controlled
- Leakage-free



BVE 1

- p_{\max} : 400 bar
- Q_{\max} : 20 l/min

- Directional seated as screw-in cartridge
- Suitable for high operating pressures
- Connection blocks available



High and medium pressure pumps as system components



R

- p_{\max} : 700 bar
- V_{\max} : 85 cm³/U

- Radial piston pump
- Installed under oil for use in hazardous areas
- Reliable high-pressure pump
- Robust design



V30E

- p_{\max} : 350 bar
- V_{\max} : 270 cm³/U

- Variable displacement axial piston pump
- Installed under oil for use in hazardous areas
- Powerful medium-pressure pump



LP

- p_{\max} : 700 bar
- Q_{\max} : 12 l/min

- Air-operated hydraulic pump / hydraulic unit
- Plunger pump with automatic stroke reversal control



A range of high and medium pressure pumps, built in the tank are approved for use in potentially explosive atmospheres. Different sizes meet the flow requirements of many systems.

More than just components - the S-Line from HAWE

HAWE not only builds system solutions from its own modular design kit, but also customises them for you using EX-approved industry standard motors, couplings, level switches, temperature switches and much more. Long-term partners and suppliers guarantee high quality and safety.



Control blocks

Manifolds with certified valve technology - tailored to your needs, with maximum safety and durability for use in hazardous areas.



Motor pump units

Robust pump technology combined with EX certified motors as a single unit for high performance and long life. Can only be certified for hazardous areas when installed in a tank.



System solutions

EX-compliant hydraulic power units with system design, engineering, component selection, procurement, assembly, acceptance, commissioning - all from a single source.

Follow us on:



Further information on the products
can be found on the HAWE website:



Refer to the B ATEX Instruction Manual for
details of certification:

