HYDRAULIC COMPONENTS
FOR OIL & GAS SECTORS

HANSA · TMP

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**OIL & GAS**
HANSA-TMP Group is an international Group established in Modena, Italy in 1984. With seven branches all around the world, the company is the perfect partner for all projects requiring fluid technology in connection with hydraulics, electronics and engineering.

The group has three divisions:

HANSA-TMP Manufacturing - design and manufacture of innovative hydraulic components: hydrostatic transmissions, controls, wheel drive units and generators. Through HANSA-TMP Mechatronic Research Center this division is continuously innovating the product line meeting the highest quality and sustainability standards of the OEMs.

HANSA-TMP Engineering - complex and customized mechatronic systems integration for the mobile and industrial applications. This division is specialized in integrating hydraulics, power transmission, electric drives, control electronics and software.

HANSA-TMP Official Distributor - The company is the exclusive distributor on the Italian market for international high quality brands in the hydraulic field: Kawasaki Precision Machinery, Wandfluh, Yeoshe, Dynex, Rickmeier. The company is also an authorized repair and warranty provider for the distributed brands.

The HANSA-TMP brand has been recognised worldwide for more than 30 years for the high quality of its products and services as well as for the superb and dedicated customer care. The company is certified for the quality of the products and processes as well as for the operations’ sustainability by the ISO 9001:2015 and ISO 14001:2015.
THE COMPANY

WORLDWIDE PRESENCE

- HANSA-TMP Facilities
- HANSA-TMP Distribution Network

HANSA-TMP EXPERTISE

Research & Development
Operations Management
100% Production Tested

Total Quality Management
Smart Supply Chain
Customer Field Support

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WANDFLUH
Hydraulic valves, proportional valves and electronics

Spool Valves
- Spool valves according to the 5-chamber principle
- Electrically, mechanically, pneumatically and hydraulically actuated
- Precise spool fit
- Low leakage rate
- Flange design
- Large standard programme
- Many additional functions
- For the directional controlling of cylinders and hydraulic motors

Poppet Valves
- Metal-on-metal sealing seat design
- Electrically, mechanically and pneumatically actuated
- Flow in both directions
- Tight sealing in all flow directions
- Cartridge, flange and sandwich style construction
- Large standard programme
- Many holding loads as well as for tensioning and clamping functions

Proportional Hydraulics
- Directional, pressure and control valves
- Actuation ny means of proportional solenoid
- Also available with integrated electronics «DSV»
- High resolution
- Good reproducibility
- Low hysteresis
- Cartridge, flange and sandwich style construction
- For the control and closed-circuit control of automated processes

Electronics
- Digital and analogue electronics
- From the amplifier right to the axis controller
- Plugs, Eurocards and snap-on modules
- Also integrated in proportional valve «DSV»
- Parametrisation ny means of convenient software
- High operational convenience
- Easy handling
- Implementation of complex control and closed-circuit control tasks
WANDFLUH
Hydraulic valves, proportional valves and electronics

Cartridges
- Functional part for compact designs
- ISO screw-in cartridges
- Poppet, pressure and flow valves
- Mechanical actuation by means of key or turning knob
- Electrical actuation by means of switching or proportional solenoid
- Simple and precise adjustment
- For installation in control blocks and line mount bodies

Explosion and corrosion protection
- Extensive product range
- Electric operating menas for all explosion hazard areas
- Gas, dust and mining
- Pressure-proof encapsulation and intrinsically safe in accordance with ATEX and IECEX
- Enhanced corrosion protection right up to stainless versions AISI 316L
- In applications, in which enhanced corrosion protection or explosion protection are required

Miniature hydraulics
- Space and weight-saving valves
- Electric actuation with reduced power
- With reduced volume flows a but high pressure
- Cartridge, flange and sandwich style construction
- Complete product range with all standard functions and actuation methods
- High power density
- Compact design
- For applications where the smallest dimensions and weights are of primary importance

Individual solutions
- Applications and customer-specific solutions with the experience acquired from standard components
- Hardware and Software for solutions optimized for the application
- Elaborated in accordance with customer specifications
- Individual sales and technical support
- Involvement of the specialists during the planning and production phases
- Hydraulics and electronics optimally matched to one another
- A lot of know-how form a single source
- From the engineering right to the commissioning

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High pressure check-ball pumps and valves for high pressure

Dynex manufactures hydraulic components and systems for use on mobile and industrial machinery. These pumps, valves, motors and power units have been sold worldwide for over 40 years. Products include high-pressure piston pumps, high-pressure directional and pressure control valves, heavy-duty piston motors for demanding conditions, and electrohydraulic actuators for remote control.

Dynex also builds standard hydraulic power units or specialized systems for demanding conditions including high pressure and special fluids.

High pressure piston pumps
Individual piston check valves direct flow from the inlet side of the pump to the outlet port in these high pressure hydraulic pumps.

The positive-seating checkball valves provide better wear and high volumetric efficiency, especially at high pressure. These checkball pumps operate at pressures to 138 MPa.

Fixed displacement pumps
Displacements from 0.46 to 126 cm³/min
Max. pressure up to 138 MPa

Variable displacement pumps
Displacements from 27 to 126 cm³/min
Max. pressure up to 59 MPa
DYNEX
High pressure check-ball pumps and valves for high pressure

Pumps for special fluids
Dynex provides pumps for use with special fluids including a variety of water-based, fire resistant and others. The properties of these special fluids include a combination of high or low viscosity with either high or low lubricity.

Split-Flow® pumps
Split-Flow® hydraulic pumps, with independent multiple outlets, efficiently supply flows to multiple function circuits and can synchronized movement of cylinders and motors with more efficiency than flow dividers. Up to 10 independent outlets are available.

Directional control valves
Many models of flangeable solenoid valves are available for pressure up to 70 MPa and flow up to 625 l/min.

Pressure control valves
Flangeable pressure control valves are available for pressure up to 104 MPa and flow up to 190 l/min.