

# Hydraulics

systems & products



# Hydraulics systems & products



Thanks to our experience in branch, responsibility and on-time deliveries, we gained the trust and reputation of the respected and well known manufacturers.



Our warehouses take over 4000 m<sup>2</sup> in total



- Precise and high advanced production technology.
- The biggest and well-equipped warehouse in Poland.
- Full offer for small, medium and corporate enterprises.
- 30 years of experience in hydraulic branch and consistent development.



CNC machining centre



We constantly **INVEST**, in order to meet your expectations.

## HYDRO - company's profile Experience and professionalism

HYDRO ZNPHS Sp. z o.o. was established in 1988 in Bielsko-Biala, Poland. From the beginning the company was focused on the production, sale and repair of power hydraulics components. Years of experiences and customer's requirements have contributed to the gradual development of our business. As a result the company founded with really small capital and without any place of business, currently takes 6000m<sup>2</sup> of usable area and employs over 100 people.

Nowadays HYDRO focuses its business on sale and manufacturing of the power hydraulics components. Our consistent development policy carried out achievement of high level in sales and the strong market position. Established contacts with well-known and respected leaders in the hydraulic world, the intensive and hard work, technical progress have contributed to make our customer service faster and more professional, with the guarantee of the highest quality.

The very good knowledge of the products sources, direct access to producers and the long-term cooperation with them allow HYDRO to provide high quality goods at very competitive

prices. During 30 years the staff of our company has become matured, stable and professional in each section.

During our company's development, our offer increased automatically.

Currently our offer is divided into the following fields:

- own production: hydraulic systems, power packs and mini power packs, hydraulic cylinders, filtration units, hose assemblies;
- distribution: full range of components used in power hydraulics.

HYDRO guarantees the safety of using its products, efficient and durable solutions - manufactured in accordance with international standards.

HYDRO ZNPHS is a dynamically growing, creative and experienced company, focusing on quality, development and modern solutions.



Cutter OL 420 ANC

Each new investment is expected to improve the level of customer service



# PRODUCTION

- HYDRAULIC SYSTEMS
- HYDRAULIC POWER PACKS
- COMPACT MINI POWER PACKS
- CYLINDERS ISO 6022, ISO 6020/2
- STANDARD HYDRAULIC CYLINDERS
- HYDRAULIC CYLINDERS WITH STROKE LENGTH AND PISTON END POSITION SIGNAL
- FILTRATION UNITS
- STEEL TUBE ASSEMBLIES
- HYDRAULIC AND INDUSTRIAL HOSE ASSEMBLIES



Our main aim is to deliver the **highest quality** products and services to all Customers

## COMPLETE HYDRAULIC SYSTEMS

tel. +48 33 829 56 65; tel. +48 33 829 56 74

Comprehensive solutions for hydraulic power transmission and hydraulic control systems, including consulting, design, implementation and optimization.

Our offer is dedicated to Customers in every industrial sector, such as metallurgy, agriculture, machine building, offshore, mining and many more.



## HYDRAULIC POWER PACKS

tel. +48 33 829 56 65; tel. +48 33 829 56 74

Hydraulic power packs in standard versions and special configurations - according to Customer's request (project and realization) or submitted documentation.



Flow	0,5 - 300 l/min
Working pressure	up to 350 bar
Oil tank capacity	1,5 - 600 dm <sup>3</sup>
Motor's power	0,15 - 37 kW

Our power packs are designed for hydraulic drives working in every conditions. They can be expanded by any hydraulics equipment and measuring devices, providing high quality and reliability.

## COMPACT MINI POWER PACKS

tel. +48 33 829 56 65; tel. +48 33 829 56 74

Compact and modular design gives the possibility of using in many different applications, keeping minimal size of the power pack and reducing delivery time and costs.

Flow	0,4 - 12 l/min
Working pressure	up to 250 bar
Oil tank capacity	0,5 - 30 dm <sup>3</sup>
Motor's power	0,15 - 4 kW
Power supply	12VDC; 24VDC; 230/400V50Hz



**STANDARD HYDRAULIC CYLINDERS**

tel. +48 33 829 56 65



Hydraulic cylinders made of welded cold-drawn steel tubes, available in two versions: double or single acting cylinder. Produced according to our documentation or customized to the Customer's needs.

Piston diameter range	25 - 300 mm
Working pressure	up to 350 bar
Stroke	6000 mm
Material	steel / stainless steel

**HYDRAULIC CYLINDERS ISO 6020/2 STANDARD**

tel. +48 33 829 56 65

HCD series cylinders: produced in accordance with ISO 6020/2 standard, tie rod cylinders, high quality solution with very good working parameters, high accuracy and reliability.

Working pressure	up to 25 MPa
Piston diameter range	25 - 200 mm
Stroke	up to 6000 mm



**HYDRAULIC CYLINDERS - ISO 6022 STANDARD**

tel. +48 33 829 56 65



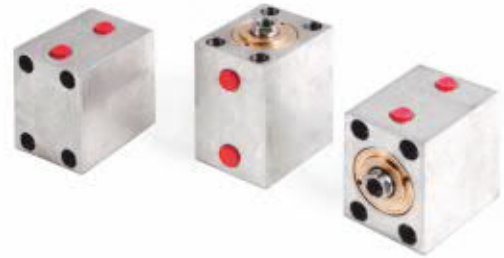
HDP series cylinders, produced according to ISO 6022 standard, are high-quality solution with very good working parameters, high accuracy and reliability.

Working pressure	up to 32 MPa
Piston diameter range	50 - 320 mm
Stroke	up to 6000 mm

## COMPACT HYDRAULIC CYLINDERS

tel. +48 33 829 56 65

HCDU is a series of compact hydraulic cylinders with the following advantages: light alloys body, sufficient durability, homogeneous construction that enables easy installation. They are used mainly in the automation of production process.



Working pressure	up to 16 MPa
Piston diameter range	25 - 100 mm
Stroke	up to 100 mm

## HYDRAULIC CYLINDERS WITH CONTINUOUS CONTROL OF PISTON'S POSITION AND PISTON END POSITION SIGNAL

tel. +48 33 829 56 65



Our hydraulic cylinders, produced in standard versions and in accordance with ISO standards, can be equipped with inductive transducers of piston position and the end position signals. These solutions enable continuous monitoring of piston position and indicate its extreme positions by electric signal (digital or analogue).

Types of pistons position transducers:

MV	analogue 0-10V
MA	analogue 4-20mA
MS	digital SSI
PV	linear position

Types of end position signals:

SR	switch REED
SH	switch PNP

tel. +48 33 829 56 63; tel. +48 33 829 56 68

Mobile filtration and pumping units AGF-15 and AGF-25

- They have two functions:
- Transferring the oil from tank to tank without filtration
  - Transferring the oil with the filtration at the same time, by-pass filter

Filtration unit is an ideal solution for the quick filling of the hydraulic oil tanks, and for the filtration of the contaminated oil.

Our oil cleaning equipment allows to remove water from the oil systems and decrease the contamination level. Compact design, high quality of components, easy to use and competitive price.

## FILTRATION UNITS



## HYDRAULIC AND INDUSTRIAL HOSE ASSEMBLIES

tel. +48 33 829 56 94



- many years of experience in production
- quick order processing
- rubber, teflon, PVC, PU, thermoplastic, UHP HELIX hoses
- assembled hoses for mining industry
- optional marking hoses and/or ferrules
- pressure testing up to 2000 bar
- quality certificate
- complete offer of fittings and ferrules made of carbon steel or stainless acid-proof steel AISI 316L
- steel high-pressure hoses

Range of diameters	DN02 - DN102
Max working pressure	up to 2800 bar
Type of hose	1, 2, 4 and 6 braids

## STEEL TUBE ASSEMBLIES

tel. +48 33 829 56 96

Processing service of hydraulic steel tubes:

- Cutting
- Bending
- Flaring
- Deburring
- Pre-assembly of cutting rings and nuts

Materials used in production process:

Steel tubes, black

Steel tubes plated with zinc layer

Stainless steel tubes





## HYDRO ZNPHS Sponsorship

In September 2013 we became an official sponsor of the female volleyball team BKS Profi Credit from Bielsko-Biala. Our interest in volleyball has developed gradually for several years. In the beginning we rented sports halls for our employees in recreational purposes. Then we built a beach volleyball pitch on the area of the company. The next step was a decision about sponsoring the sports team. One of the main reasons, that influenced on this decision, was our real passion of volleyball. However, we can clearly notice many similarities in the values of our company and sponsored team - the values that are the guarantee of success in business and in sport, too. But the most important goal of our involvement in sponsoring is to promote

healthy, sport lifestyle, that will bring profits to the company, our employees, their families and the whole local community. Season 2016/2017 will be the fourth year of our cooperation with BKS Profi Credit Team. For last two years the volleyball players have been strongly present in our company's life: they took a part in trade fairs and photo-sessions, that resulted in business gadgets with their images. Now a lot of our employees go to see matches. We also organized the second Tournament in Volleyball for the Cup of the President of the HYDRO, where BKS Profi Credit players also appeared. All that make the relation between our company and BKS Profi Credit Team even stronger.

**HYDRO** Trustworthy business partner

Guarantee of high quality products

Over 30 years of company's development

Quality certificates ISO 9001:2009 and ISO 14001:2005

[www.hydro.com.pl](http://www.hydro.com.pl)

The advertisement features three female volleyball players from the BKS Profi Credit team. They are wearing white jerseys with red and black accents, featuring the number 7, 15, and 16 respectively. The jerseys also display logos for 'iturrri', '#perta', '#nela', and '#em'. They are holding black hydraulic hoses. The background is a blue, geometric, abstract design.

# DISTRIBUTION

- COMPONENTS FOR PRODUCTION OF HYDRAULIC CYLINDERS
- ELECTRO-HYDRAULIC VALVES, DIRECTIONAL CONTROL VALVES, FLOW DIVIDERS
- FILTERS, PRESSURE GAUGES, COMPONENTS FOR PRODUCTION OF POWER PACKS
- GEAR PUMPS, PISTON PUMPS, VANE PUMPS, HAND AND FOOT PUMPS
- DRIVE COUPLINGS, BELL-HOUSINGS
- HYDRAULIC HOSES, INDUSTRIAL HOSES, FITTINGS, FERRULES, ACCESSORIES
- HOSE PRODUCTION MACHINES
- CHECK COUPLINGS, QUICK RELEASE COUPLINGS, CLAMPS, TUBE ASSEMBLIES
- COOLERS, HYDRAULIC ACCUMULATORS



We are the largest wholesaler of power hydraulics in Poland

tel. +48 33 829 56 78; tel. +48 33 829 56 68

Our assortment includes wide range of components for production and repair of hydraulic cylinders:

Components	Diameter Ø
Pilot bosses	from 25/16 to 250/150
Pistons	from 25 to 250
Ends of cylinders	from 25 to 250
Seamless tubes for rigid tube assemblies	from 4 to 42 thickness from 1 to 4 mm
Clamps	
Ball joint ends with bearings, made of stainless steel	

## COMPONENTS FOR PRODUCTION OF HYDRAULIC CYLINDERS



**EuroSnodi** Group **ES**

## CHROMED BARS AND CYLINDER TUBES

tel. +48 33 829 56 62; tel. +48 33 829 56 72



- chromed bars - **Ck 45, 20 MnV6, CROMAX 280X**
- chromed steel bars - **42CrMo4**
- hardened chromed bars - **CK45H**
- stainless steel chromed bars - **AISI**
- bars with nickel-chrome coating - **NI-CROMAX**
- chromed steel tubes for piston rods - **ST 52.3**
- seamless, inside honed tubes - **H8 - ST 52.3**
- seamless cold drawn tubes with inside tolerance - **H9 - ST 52.3**
- stainless steel tubes honed inside - **H8 - AISI 304**

### NEW!

BAW bars for linear tracks - tolerance h6 and chromed tolerance h7  
Cast iron bars

tel. +48 33 829 87 30; tel. +48 33 829 87 44

## SEALS

Rod seals	fabric-rubber seals: TSE, TGO, GT5, GT7, PSE
	polyurethane seals: TTI, TTS, TTX
	rings: GIR, GIP
Piston seals	TPM, TPL, TPS/G, TPS/T, PDE, TDE, PDP, PDH, GT3
	polyurethane seals: TTU, TTE, TTEW rings: GER, TTO, CUT
Wipers	polyurethane: GHK, GHW, GHP, GPW, MBW
	metal reinforced: ZZ, GPA
Guide rings	rings: AGI, AGE
	tapes: PTFE+Br, fabric tape
Static seals	O-rings, x-rings, GDS polyurethane O-rings
	PM copper washers
	PPM bonded seals
	stainless steel and Viton washers
	GPP, FLS seals for flanges



**GUARNITEK** GROUP

**SEALS - KIT BOXES AND ACCESSORIES**

tel. +48 33 829 87 30; tel. +48 33 829 87 44



- O-Ring Kit - BSP (382 pcs.) C-KIT
- O-Ring Kit - metric (386 pcs.) M-KIT
- Copper Washers Kit (220 pcs.) PM-KIT

- Tongs for mounting polyurethane seals M22
- Mitre cutters for straight and 45° cutting UAK004

**OIL COOLERS**

tel. +48 33 829 56 63; tel. +48 33 829 56 74

In our offer you can find:

- air-oil coolers with thermostats (fans 12V, 24V DC and 230/400V AC)
- water-oil coolers
- units to by-pass oil cooling, air cooled, with own pump
- special oil coolers



**DIRECTIONAL SPOOL VALVES NG6, NG10, NG16, NG25, NG32**

tel. +48 33 829 56 79; tel. +48 33 829 56 63

Directional spool valves are designed to control the direction of fluid flow, mounting type NG. Available as electric AC or DC, manual, pneumatic and hydraulic operated valves. The valves are available in three or four configurations with two or three-spool positions.



Type	Flow	Pressure
NG6	up to 80 l/min	350 bar
NG10	up to 160 l/min	350 bar
NG16	up to 300 l/min	350 bar
NG25	up to 700 l/min	350 bar
NG32	up to 1000 l/min	350 bar

## MODULAR VALVES NG06, NG10

tel. +48 33 829 56 79; tel. +48 33 829 56 63

Hydraulic devices used to control the pressure and flow direction. Their modular construction enables installation under directional spool valves with size of NG6 and NG10. Compact solution with high reliability.

### Main types:

- pressure compensated and flow control valves
- relief and reducing valves
- check valves
- pilot operated check valves
- 2-way solenoid valves



## PROPORTIONAL HYDRAULICS

tel. +48 33 829 56 79; tel. +48 33 829 56 63



Wide range of components that allow to control the pressure and flow direction, based on proportional control technique. Ideal combination of hydraulics with electronics systems, which provide faster, smoother and more precise dynamic control system. Proportional valves and devices are compatible with all kinds of mountings:

- sub-plates and manifolds,
- pipes,
- cartridges.

Equipped with proportional solenoids is designed to work with integrated or remote drivers and amplifiers, both in analogue or digital version.



## SPECIAL APPLICATIONS VALVES - ATEX

tel. +48 33 829 56 79; tel. +48 33 829 56 63

Directional and spool valves in special explosion-proof versions, dedicated to use in hydraulic systems working in potentially explosive areas, such as mining, building machines, oil, gas etc.

### Available versions:

- Group II (ATEX, IECEx, Rostechnadzor, C UL US)
- Group I (ATEX, IECEx)

Stainless steel versions are also available.



## HYDRAULIC CARTRIDGE VALVES

tel. +48 33 829 56 63; tel. 3+48 3 829 56 74



Full assortment of hydraulic cartridge valves, that minimize the dimensions of the whole hydraulic system without loosing its parameters and functionality.

Our offer:

- cartridge valves
- electric control valves
- hydraulic integrated circuit „HIC“
- special execution



## MOUNTING SUB-PLATES AND MANIFOLDS

tel. +48 33 829 56 79; tel. +48 33 829 56 63

We suggest solutions for valves and directional control valves with mounting plates; we offer elements which enable to mount tubes, plates, cartridge valves or other sub-plates.

- made of steel or aluminum
- mounting sub-plates NG 6, NG 10, NG 16, NG 25, NG 32
- single-station and multi-station sub-plates and manifolds
- complete manifolds



## VALVES

tel. +48 33 829 87 33



Max flow	280 l/min
Max pressure	50 MPa

Complete range of valves:

- ball, relief, sequence, check, shuttle, overcenter valves
- rotary couplings
- flow dividers, flow regulators



## DIRECTIONAL CONTROL VALVES

tel. +48 33 829 56 84; tel. +48 33 829 87 36

Monoblock or sectional directional control valves, available in standard configurations or versions dedicated to specified purposes, including advanced control systems.

Control	manual (lever or flexible remote control)
	electric
	pneumatic
	hydraulic
	combined electric-hydraulic with joysticks
Flow	20 l/min - 180 l/min,
Pressure on ports	250 - 320 bar



## FILTRATION

tel. +48 33 829 56 84

We propose a wide selection of MP FILTRI products. Since 1964 they have been designing, developing, manufacturing and distributing a wide range of filters and accessories for mobile systems and hydraulic industry. MP FILTRI has its representatives all over the world, among others in USA, Canada, Germany, France, Great Britain and in China.

It's our pleasure to inform that we are a sole distributor for MP FILTRI in Poland.

We offer filtration of various substances (fluids, air) with filtration up to 1 micro, for pressure up to 1000 bar. Our low pressure filters are designed for max flow 3000 dm<sup>3</sup>/min.



DISTRIBUTION

## IN-LINE CONTAMINATION MONITOR (ICM)

tel. +48 33 829 56 84



Particle counter - in-line contamination monitor uses LED technology, thanks to which measure oil cleanness at the attractive price.

The ICM automatically measures and displays particulate contamination, moisture and temperature levels in various hydraulic fluids.

It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required and where space and costs are limited.

## GEAR PUMPS AND HYDRAULIC MOTORS

tel. +48 33 829 87 36; tel. +48 33 829 56 84

### Gear pumps

Displacement	0,16-86,87 cm <sup>3</sup> /rev.
Working pressure	160 - 300 bar

### Hydraulic motors

Displacement	0,45 - 86,87 cm <sup>3</sup> /rev.
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Single, double, triple and more pumps in any configuration - available directly from the stock. Pump bearing supports that protect pumps from damages. Gear pumps KUMA version - more compact and without back cover. Reinforced pumps with cast iron covers.



**FLOW DIVIDERS**



tel. +48 33 829 87 36; tel. +48 33 829 56 84

Flow dividers are used in applications where two separate hydraulic circuits are fed by one pump.

Our offer includes:

- gear flow dividers (group 0, 1, 2, 3 and mixed groups)
- valve flow dividers

Flow divided equally	e.g: 1:2, 1:3, 1:4...
Flow divided asymmetrically	as required

**AUTO-COMPENSATING FLOW DIVIDERS**

tel. +48 33 829 87 36; tel. +48 33 829 56 84

Manifold Instantaneous Auto-compensating Flow Divider with internal system that removes the dependency from the pressure difference between elements. It's a system to distribute and feed with constant and independent flow rates for the various circuit branches. The open architecture of the MIA-FD has been developed to be integrated into different functionality that will follow the customers requirements.



**ELECTRIC MOTORS**



tel. +48 33 829 56 84; tel. +48 33 829 87 36

We offer full range of 3-phase squirrel-cage low-voltage electric motors with power from 0,06 kW to 1250 kW.

The standard SIEMENS' production program includes motors of B5 and/or B35 construction, that can be supplied directly from the grid or frequency converters. Their advantages are: high efficiency, wide range of temperatures in working environment, quiet operation and low vibrations level.

**ORBITAL MOTORS**

tel. +48 33 829 56 84; tel. +48 33 829 87 36

Features:

- high starting torque
- wide speed range
- constant output torque over a wide speed range
- favourable power-to-weight ratio
- very smooth running, even at low speeds
- durable construction capable of standing tough operating conditions





## HYDROSTATIC STEERING UNITS

tel. +48 33 829 56 84; tel. +48 33 829 87 36

Hydrostatic steering units with displacement up to 1000 cm<sup>3</sup>/rev. Available directly from the stock in various configurations: for open or closed systems (LS), with or without reaction from wheels.

Commonly used in wheel steering systems of low-speed vehicles such as:

- tractors
- harvesters
- forklifts
- building machines
- ships
- vessels etc.



**maxima**<sup>®</sup>

## PISTON AND VANE PUMPS

tel. +48 33 829 87 36; tel. +48 33 829 56 79 (Atos)



Piston pumps	Displacement	Pressure
Fixed displacement	60-100cm <sup>3</sup> /rev.	300 bar
Variable displacement	29-88 cm <sup>3</sup> /rev	up to 280 bar
Radial	1,7-25,4 cm <sup>3</sup> /rev	up to 500 bar

Vane pumps	Displacement	Pressure
Fixed displacement	16,5-150,2 cm <sup>3</sup> /rev	up to 300 bar
Variable displacement	6,8-43 cm <sup>3</sup> /rev	up to 150 bar
Multiple stream	8-150,2 cm <sup>3</sup> /rev	up to 350 bar

## HAND PUMPS

tel. +48 33 829 87 34; tel. +48 33 829 56 94

Hand pumps for hydraulic systems may be used in standard or emergency operations. They work with single-acting (PMS, PM) and double-acting cylinders (PMI). Available with its own tank (TNK - steel or TNA - plastic-aluminium) or without it - they can use the tank of hydraulic power pack. Two-stage pumps (HPM580) are also available.

Displacement	8-70 cm <sup>3</sup> /cycle
Max working pressure	580 bar



On special request, we can prepare a special configurations of our pumps - e.g. additional valves.

## FOOT PUMPS

tel. +48 33 829 87 34; tel. +48 33 829 56 94

Pumps for systems and tasks where free hands of the operator are necessary. Dedicated to single-acting cylinders (FPME) or to work with special tools (e.g. nut cutters) at high pressure (F-HFP25 - two-stage pump). Equipped with own oil tank.



Displacement	12 - 15 cm <sup>3</sup> /cycle
Max working pressure	up to 700 bar

Specialistic pneumatic-hydraulic pumps are also available.

**POWER PACKS' COMPONENTS**

tel. +48 33 829 56 84; tel. +48 33 829 56 68



Complete assortment of:

- Electro-hydraulics
- Valves and control valves, mounting plates (manifolds)
- Gear pumps, piston pumps
- Bellhousings, couplings and inspection doors
- Filters, filters and air breathers, filter caps
- Level indicators, oil level gauges, thermostats
- Fittings, quick couplings and hoses
- Pressure gauges and check couplings
- Tanks, oil-coolers, hydraulic accumulators
- Damping rods, flat damping bars

**HYDRAULIC ACCUMULATORS**

tel. +48 33 829 56 84; tel. +48 33 829 87 38; tel. +48 33 829 56 63

EPE Italiana is a leader in production of hydro-pneumatic accumulators in Italy, with over 35 years experience in this branch. In 2009 we became the official partner of EPE Italiana in Poland.

Our offer includes:

<b>Bladder accumulators</b>	
Working pressure	up to 550 bar
Capacity	up to 55 litres
<b>Diaphragm accumulators</b>	
Working pressure	up to 350 bar
Capacity	up to 10 litres
<b>Piston accumulators</b>	
Working pressure	up to 375 bar
Capacity	up to 300 litres



Nitrogen charging and checking kits also available from the stock.

**COUPLINGS AND BELLHOUSINGS**

tel. +48 33 829 56 84; tel. +48 33 829 87 38



We offer quick selection of the best couplings to pumps from various producers. Our offer includes drive transmission elements for power up to 400 kW:

- Bellhousings: made as monoblock, modular elements or silenced series; made of aluminium or steel.
- Couplings: their unique construction guarantee ideal connection of the motor and the pump, as well as perfect noise reduction during operation. Available in versions: aluminium, cast iron, steel.



## → PRESSURE & VACUUM GAUGES

tel. +48 33 829 87 40

Diameters	40 mm, 50 mm, 63 mm, 100 mm
Connection	radial, back connection, back flange for lower connection, front flange for back connect, „U” clamp for back connect
Pressure	from -1 to 4000 bar
Filling	glycerine
Accessories	brackets, fittings, couplings, flanges, connectors, thermometers



**NUOVA FIMA**

On request we can provide PED certificate and certificate of conformity.

## CHECK COUPLINGS

tel. +48 33 829 87 33



**MINIPRESS**  
DIAGNOSTIC SYSTEMS

- We offer test hoses of any length
- Measurement kits in various configurations

Threaded check couplings type MINIMESS	
Pressure	up to 630 bar
T-connection check couplings	
Pressure	160 - 630 bar
Cap material	metal or plastic

tel. +48 33 829 87 33

In our offer you can find all kinds of couplings: straights, elbows, T-connections, crosses, connectors, adapters, nuts, cutting rings, plugs and many more.

Thread type	Cone	Standard
Metric	24°	DIN 2353
BSP	60°	-
UNF	37°	SAE J514
ORFS	-	SAE J1453

Made of carbon steel, stainless steel AISI 304, AISI 316, acid-proof steel.

## → COUPLINGS



- SAE flanges
- STECKO couplings

## QUICK COUPLINGS

tel. +48 33 829 56 94



 **Stucchi®**

Our offer includes:

- poppet and flat-face quick couplings
- screwed couplings
- multi-couplings
- original quick couplings for such machines as CATERPILLAR, JCB

It's our pleasure to announce, that we are the official authorized distributor of STUCCHI in Poland.

Thread range	1/8" to 2" and from M14x1,5 to M36x2
Thread types	JIC, ORFS, BSP, NPT, DIN
Max working pressure	up to 700 bar

**HOSE FITTINGS AND FERRULES**

tel. +48 33 829 56 95



Version	Standard, Multispiral, Inter-Lock, Water Blast
Range	02 DN- 76 DN
Material	Carbon steel Stainless steel acid-proof AISI 316L
Thread types	DKOL, DKL, DKOS, DKR, DKOR, DKR-K, DKR-F, DKN, DKJ, DKJ-K, SAE-OR, DKM, RNR, RNM, BES, BEL, KARCHER, JIS-KOMATSU, SFL-3000, SFL-6000, SFL-9000, ORFS and many more

tel. +48 33 829 56 95

We offer a wide range of rubber hoses for power hydraulics and high-pressure washing devices.

**HYDRAULIC RUBBER HOSES**

Standards	SAE, ISO, DIN EN	Accreditation entities	IQNET, GOST, BV, DNV, GL, MED, MSHA, RINA, OBAC, EN81-2
Types	HIPAC, LONGLIFE, WATERBLAST, MEGA JET, MARATHON, POWER LIFT, CELSIUS, COMPRESSOR, TWISTER		
Steel braids	1, 2, 3, 4, 6		
Diameters	ø05 - ø76		
Working pressure	40 - 1200 bar		



**HYDRAULIC HOSES - ACCESSORIES**

tel. +48 33 829 56 95



Types of accessories	Steel armour guards
	PVC and HDPE armour guards
	Textile protection sleeves
	Thermal protection guards
	Handles
	Seals for flanges
	Rubber-steel washers
	Copper washers
	O-rings and washers kits
	Plugs



## THERMOPLASTIC HOSES

tel. +48 33 829 56 95

Types	SAE 100 R7, SAE 100 R8, SAE 100 R18, 1SB, 2SB, VHP, HR8, Micro bore
Versions	single, twin or triple hoses (on request with electric cable)
<b>Hydraulic thermoplastic hoses</b>	
Applications	forklift trucks, aerial lifts, cranes, hydraulic wrenches, safety and rescue equipment, off-shore industry.
<b>Industrial thermoplastic hoses</b>	
Applications	greasing, pneumatic control, technical gases, aggressive chemicals, sewer cleaning, LPG, CNG



TRANSFER OIL

Special performances: NON-CONDUCTIVE, CPLT, LFC, MARINER, EXTRA TOUGH, YACHTING

## HELIX - ULTRA HIGH PRESSURE

tel. +48 33 829 56 95

Comprehensive offer of polymer multispiral hoses.



ISO 9001:2008, ISO 14001:2004  
in accordance with TUV



TRANSFER OIL

### Applications in the industry

Waterjet cutting, cleaning of tubes and heat-exchangers, removing paint and dirt from reservoirs, containers, ships etc., industrial cleaning, checking the pressure of injection in Diesel engines.

### Applications in hydraulics

Hydraulic tensioners, testing devices

### Advantages

High compatibility of multispiral thermoplastic hoses with fittings and ferrules of our own production.

High resistance to chemicals and against abrasion.

Diameters	from DN03 to DN25
Working pressure	up to 2800 bar

## INDUSTRIAL HOSES

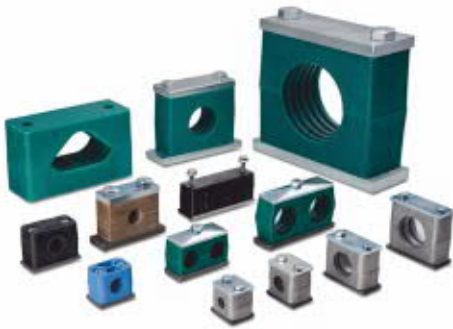
tel. +48 33 829 56 95

Applications	oil and fuel, water, compressed air, hot water and steam, chemicals, abrasive materials, air-conditioning, gas, food substances, sewer cleaning, sandblasting, plastering
Materials	PTFE, PVC, PU, PA, UHMWPE, rubber (SBR, NBR, EPDM, NR, Viton, CR)



**PIPE & HOSE CLAMPS**

tel. +48 33 829 87 33



I. Light Series DIN 3015/1	for tubes with outside diameter from 6 mm to 88,9 mm (1/4" - 3")
II. Heavy Series DIN 3015/2	for tubes with outside diameter from 4 mm to 406,4 mm higher resistance thanks to antioxidant polyamide surface
III. Twin Series DIN 3015/3	for assembling two tubes with outside diameter from 6 mm to 42,4 mm all properties correspond to light group L

**PRODUCTS AND ELEMENTS MADE OF STAINLESS STEEL**

tel. +48 33 829 87 33

- Complete hydraulic systems
- Cylinders
- Hydraulic hoses
- Valves, couplings, quick couplings, check couplings, PPM rubber-metal washers and other components available directly from the stock,
- Made of steel AISI 304 or AISI 316



**MACHINES FOR PRODUCTION OF HYDRAULIC HOSE ASSEMBLIES**

tel. +48 33 829 56 85



Types of machines
Hand and electrical crimping machines
Portable and pneumatic crimpers for air-conditioning hoses
Cutting machines
Skiving machines
Machines for testing hydraulic hoses
Machines for marking hydraulic hoses
Other accessories

**AUTOMATIC CUTTING MACHINES FOR CABLES AND HOSES**

tel. +48 33 829 56 85

Cutting methods
Weld cut for steel cable
Shear cut for steel cable
Smooth blade cut for hydraulic hose
Inductive annealing for PTFE hose
Knife cut for rubber hose and non-wire tubing

Machine types
Manual cutters
Semi-automatic cutters
Automatic cutters
Platforms
Feeders
Coilers



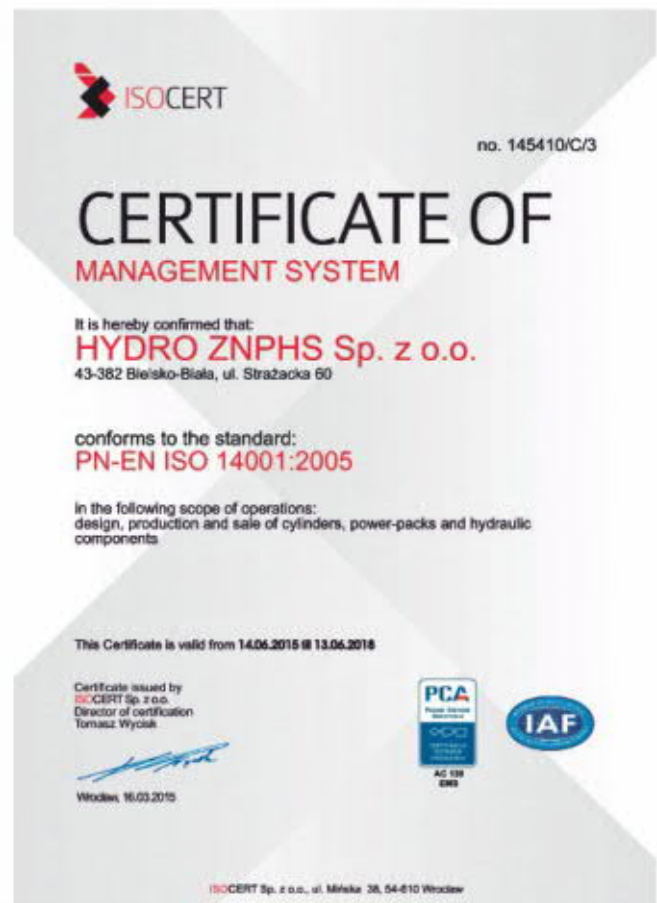
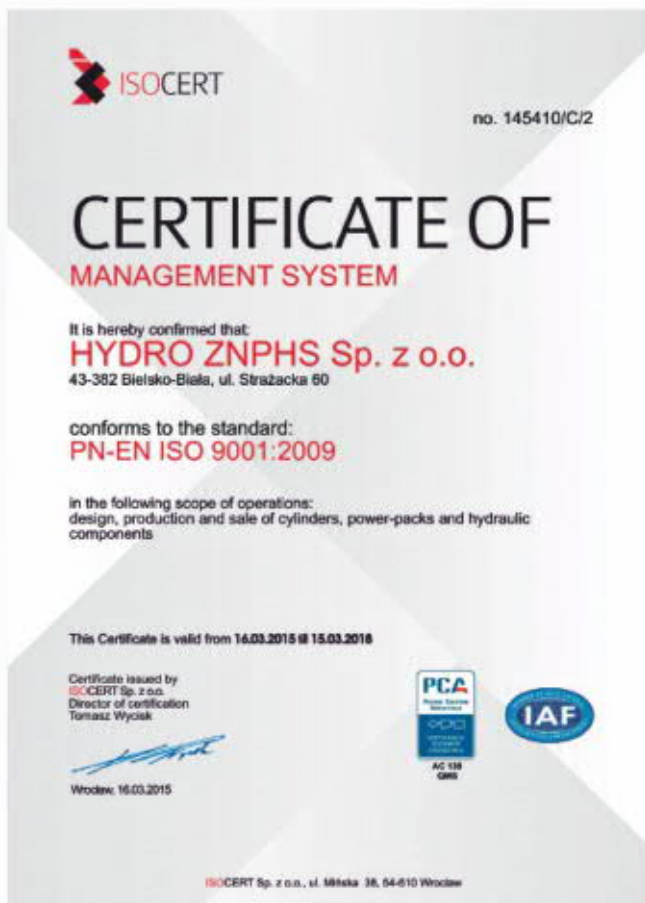
## HYDRO Quality Policy Trustworthy business partner

The purpose of our business is to provide quality power hydraulics products, components and repair services. Requirements and expectations of our Customers determine the direction of our business. Skills supported with experience and implementing relevant remarks from Customers guarantee satisfaction of the current recipients and become a recommendation for the future ones.

Confirmation of these words is our renewal of the **ISO 9001:2009** certification, and implementation of environmental management system **ISO 14001:2005**. These two standards are the most recognizable and provide high quality of our products.

ISO 9001:2009 certification relates to resource management system, knowledge and customer service. Moreover, it ensures the efficient flow of information about the tasks and their implementation, and also it activates the process of continuous improvement of the company.

The implementation of ISO 14001:2005 environmental management system prevents from contamination, minimizes the negative impact on the natural environment and is environmentally friendly.



We offer high quality with the lowest prices on the market!

**Hydro ZNPHS Sp. z o.o.**

**Bielsko-Biala, ul. Strazacka 60, POLAND**

• Reception Desk

**hydro@hydro.com.pl**

Tel. +48 33 829 56 60

**Sales Department**

**Bielsko-Biala, ul. Strazacka 41, POLAND**

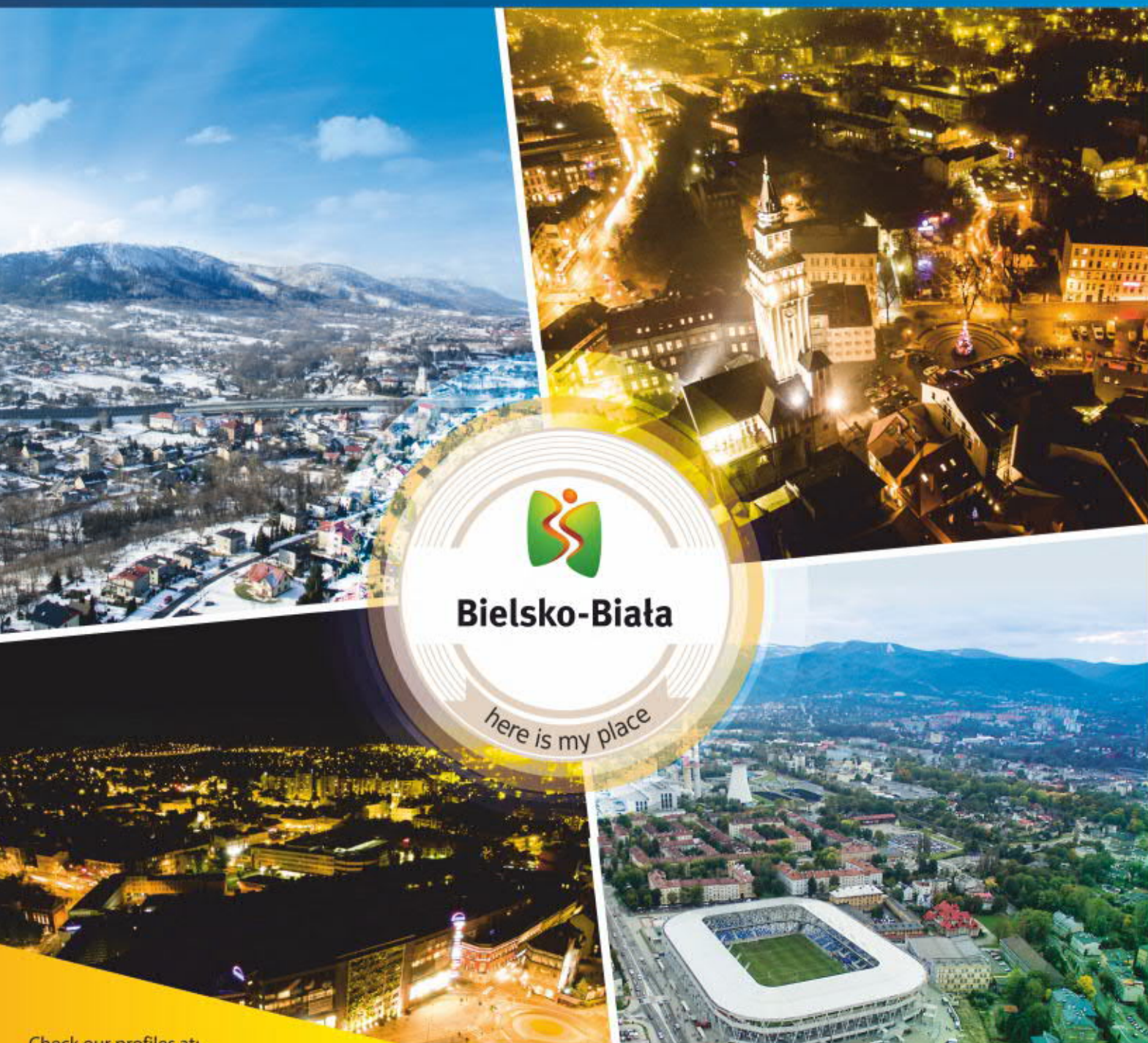
• Export

**biuro@hydro.com.pl**

Tel. +48 33 829 56 98

**www.hydro.com.pl**

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