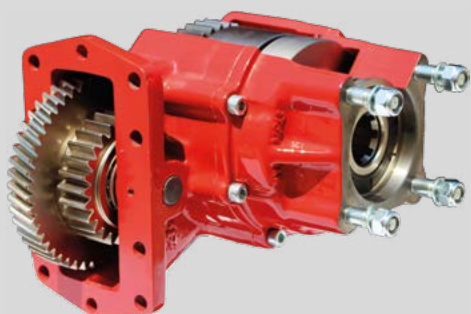




Building our world

## PTOs

pg. 4-5



## Pumps & Motors

pg. 6-9



## Valves

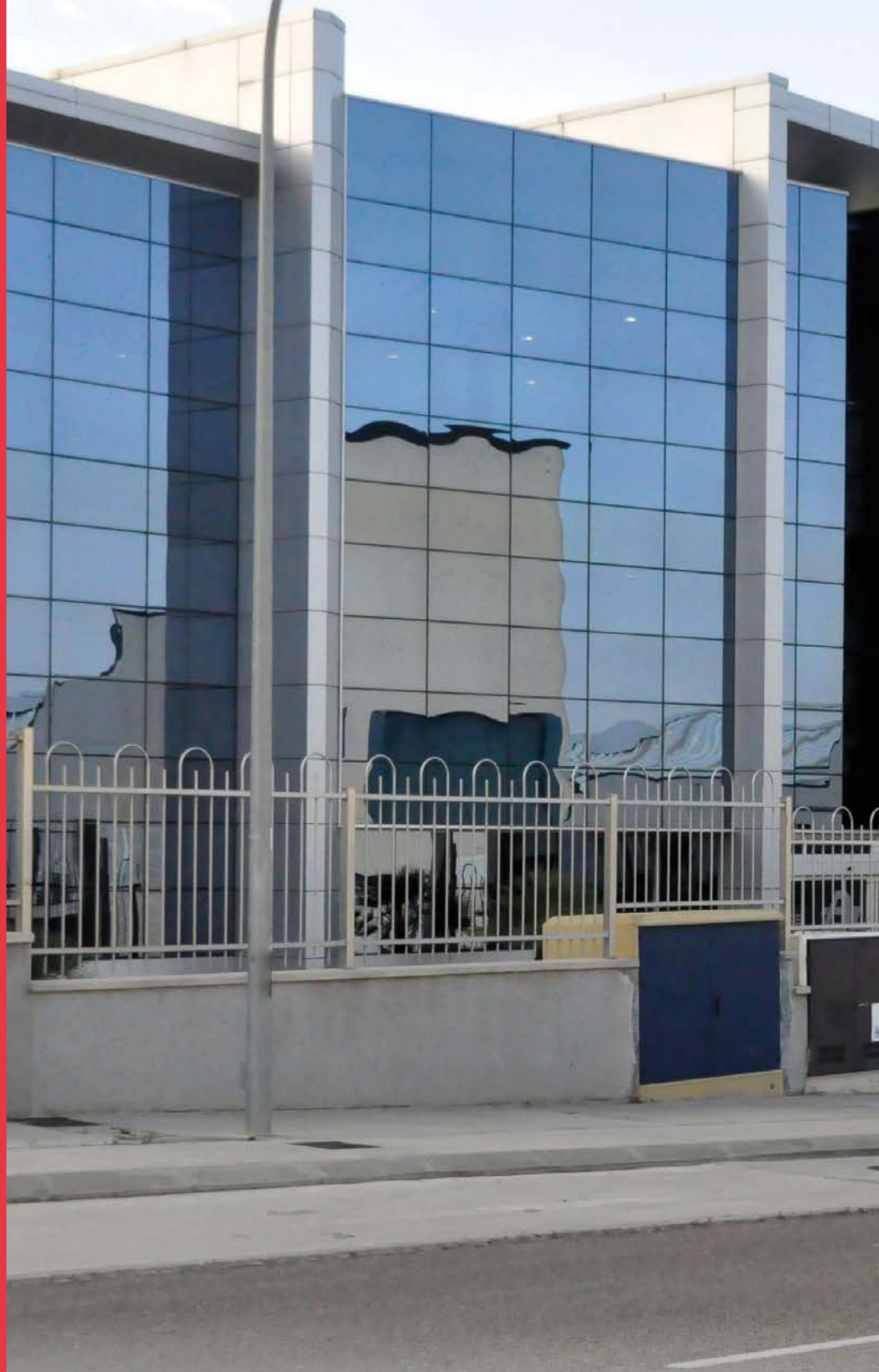
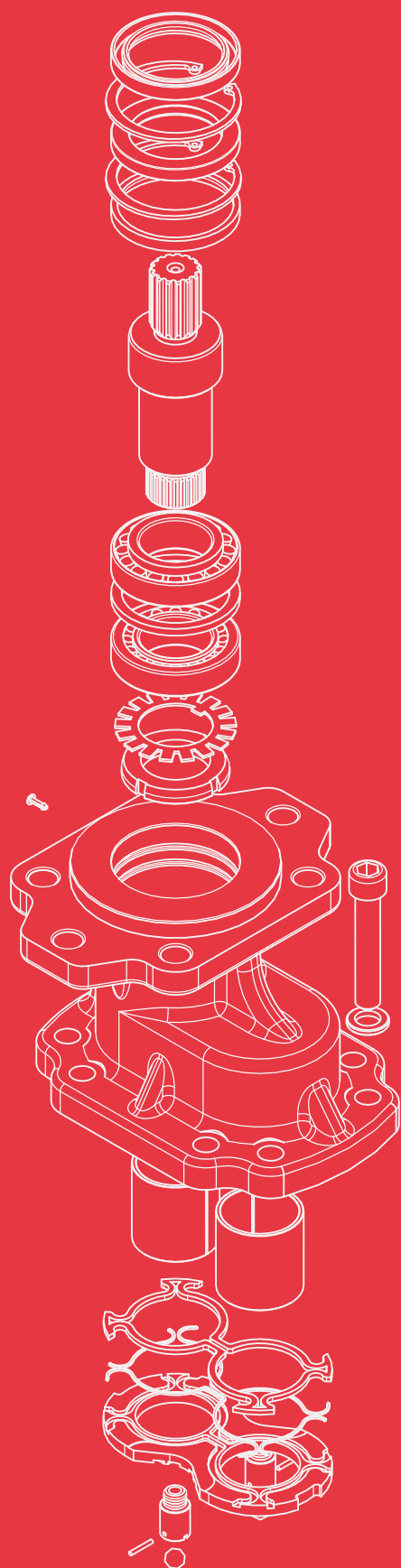
pg. 10-11



# Hydraulic Equipment



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45950 • Toledo • España



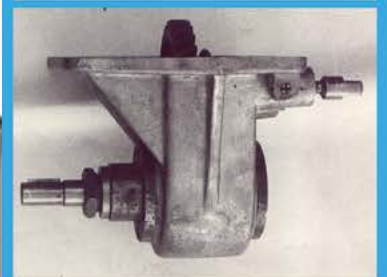
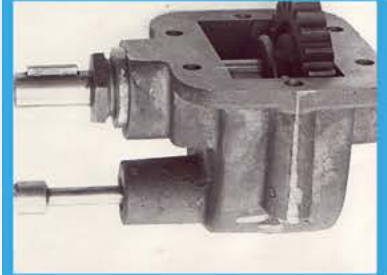
## About Bezares SA

Founded in 1945 manufacturing mechanical and hydraulic components. Today the company has evolved into one of the largest companies in its sector.

Bezares is currently a supplier to the world's leading automotive manufacturers. Thanks to our sales network, our products are available to customers in over 60 countries across five continents.

Bezares produces one of the most complete ranges of PTO's in the world, catering for most existing vehicles and transmissions on the market.





For years we have committed to quality, endorsed by the ISO 9001:2008 standard. Furthermore the quality policy implemented by the company has strongly promoted the establishment of a quality system that demonstrates our responsibility towards the environment. This procedure has led to the ISO 14001:2008 standard which ensures our respect for the environment.

# PTO's

Allison  
Clark  
Dana  
Eaton  
Gaz  
Hino  
Hyundai  
Isuzu  
Iveco  
Kamaz  
Mack  
Maz  
Mercedes  
Mitsubishi  
Nissan  
Pegaso  
Praga  
Renault  
Rover  
Scania  
Shaanxi  
Spicer  
Tata  
Toyota  
Turner  
Volkswagen  
Volvo  
ZF

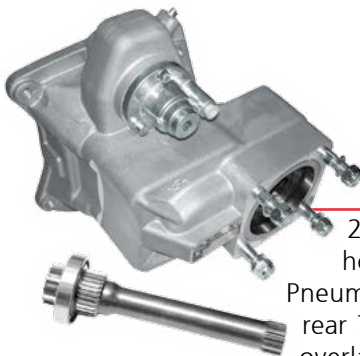
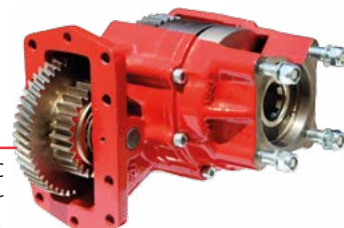


## Bezares 1026950 for ZF

Reinforced dual output, direct lubrication. Same 1 : 1.60 internal ratios on both outputs. Mounted on the 5-hole front window of the gearbox.

## Bezares 240603 for Allison

Two gears with built-in clutch. Hydraulic and pneumatic shifts. Installation on either side of the gearbox. Various transmission ratios. For HD boxes (4000 series) the hydraulic version is recommended.



## Bezares 076803 for Mercedes

2 gears with reinforced aluminium housing. For ISO 4-bolt pumps. Pneumatic shifting. Mounted on the rear 7-bolt gearbox window. Requires overlapping on flanges greater than Ø180 mm.

Wide range of power up to 1000 Nm  
Many options of internal ratios from 1:1 to 1:2

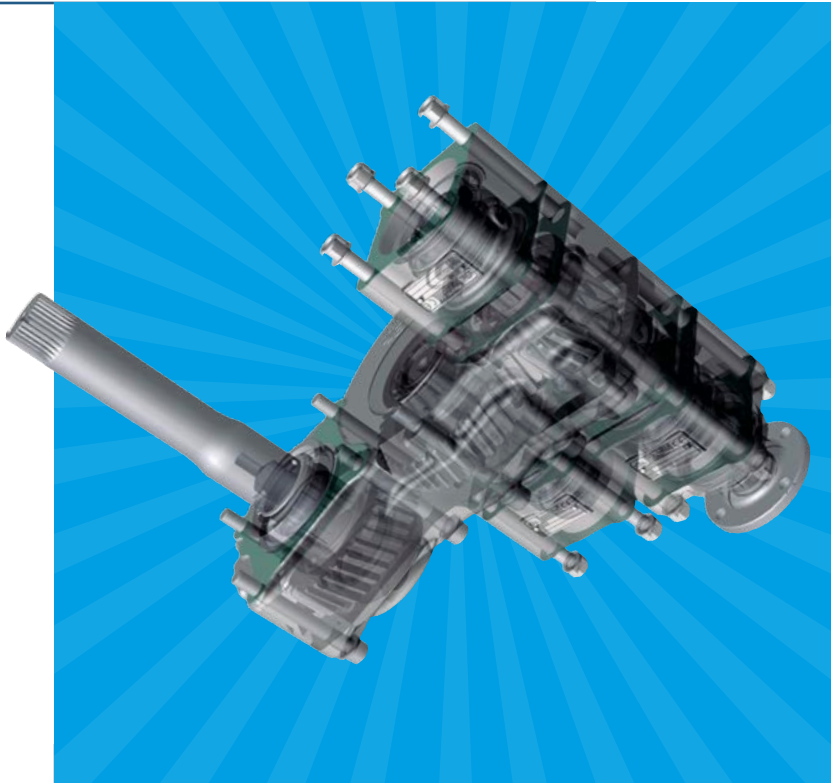
### Shifts Available

Mechanical  
Pneumatic  
Vacuum  
Electrical

Electro-hydraulic (Allison series)

### Output flanges available

ISO 4-hole DIN 5462  
UNI 3 (21 UNI 222)  
SAE (A, B, BB, C)  
Output Plate



### Bezares 1182323 for Volvo

3-gear PTO's with 3 separate or simultaneous outputs which can be combined as Pump, Flange Plate or No Output. Pneumatic shifting, mounted on the rear gear-box window.

## Why choose Bezares PTO's?

One of the widest ranges of PTO's on the market, supplying units for practically all gearboxes brands in the world, such as Allison, Eaton, Hino, Hyundai, Isuzu, Iveco, Mercedes Benz, Mitsubishi, Nissan, Renault, Scania, Toyota, Volvo and ZF, among others.

Bezares is also an approved supplier to some manufacturers such as Mitsubishi and Eaton, who fit our products in their vehicles.

We offer a full range of shifts, ranging from our mechanical, vacuum and pneumatic units through to the Allison electro-hydraulic models.

Likewise, we offer a full range of pump mounting flanges, from the popular DIN 5462 standards, cardan shaft and UNI 3 outputs, through to the SAE A, SAE B, SAE BB and SAE C outputs, these latter options being mainly aimed at the North American market.

Bezares PTO's are known for their rugged design, using quality components that give high technical performance on all our models. This allows our units to work even under the most severe conditions.



## FR pumps and motors

These fixed displacement bent axis piston pumps have been designed with spherical head pistons. This provides very high performance, and they come with standard European mountings, so these pumps can be fitted directly onto almost any PTO in the world.



## Why choose Bezares pumps and motors?

Our gear pump models are all bidirectional with side and rear ports, making the units highly adaptable, which helps to keep down stock levels. The use of bronze pressure plates and ductile iron housings gives these models excellent performance in both pressure and rpm.

Bezares offers various types of output flanges for different markets, ranging from our 4-hole ISO outputs (DIN 5462) and UNI 3, which are mainly aimed at European markets, through to the SAE B type fittings for the American market.

Our piston models use top quality components and high precision finishes, giving these units the best possible performance and features, with the options of ISO 4 (DIN 5462) or SAE B flanges. Our axial piston models are bidirectional and come in 3 sizes, with dual flow and pressures up to 300 bars.

Bent axis piston pumps have very compact designs in all sizes, which enables easy fitting and reduces assembly time. This type of pump reaches pressures up to 400 bars in all models.

# Gear Pumps and Motors



## BEA Pump

Bidirectional, with an aluminium body, making it particularly light-weight in a small size and with low noise levels.

BEA Pump	Displacement (cm <sup>3</sup> /rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
11	10.9	290	2000
17	16.8	290	2000

BEM Pump	Displacement (cm <sup>3</sup> /rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
23	23	300	2000
30	29	290	2000
40	41	260	2000
45	46	250	2000

## BEM Pump

A bidirectional model with a casting iron body. Rear and side ports, providing greater versatility and simplifying assembly. Available in ISO 4 and UNI 3 versions.



## BEL Pump

Bidirectional, with a casting iron body, giving it great resistance to high pressures and rpm's. Available with ISO 4-bolt and SAE 2/4-bolt flanges. Available in ISO 4 and UNI 3 versions.

Pump BEL	Displacement (cm <sup>3</sup> /rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
50	50	320	2000
60	60	310	1800
80	80	270	1600
100	100	240	1400
120	115	230	1300

\* Check out our BEL Motors with the same flow rates

BEXLNS Pump	Displacement (cm <sup>3</sup> /rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
85	88.5	290	2000
100	103.3	290	1800
115	118	290	1500
130	132.8	270	1300
150	147.5	250	1200

## BE XLNS Pump

A larger model, in casting iron with the highest working pressure performance. Available with ISO 4-bolt and SAE 2/4-bolt flanges.



# Piston pumps and Motors



## BZ axial piston pump

With reversible direction of rotation.

BZ Pump	Displacement (cm3/rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
12	11.7	350	1700
20	21.5	350	1700
30	32.4	350	1400
40	40.5	350	1300
50	48.5	350	1300
58	58.3	320	1200

FR Pump	Displacement (cm3/rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
20	19	400	2200
30	30.4	400	2000
40	39.38	400	2000
60	59.86	400	1700
80	78.79	400	1500
110	109.47	400	1400

## FR Bent axis piston pump

Fixed displacement pumps and motors. The compact design enables installation in almost all applications. Available in ISO 4 and SAE B / BB versions.

Motors with the same flow rates also available.



## MR bent axis piston pump

Fixed displacement. Designed for use in medium/high pressure applications. Its small body allows installation in reduced spaces.

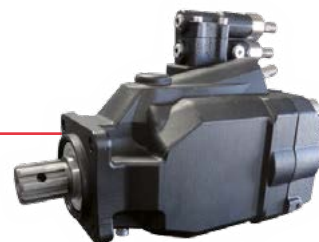
Available in ISO 4.

MR Pump	Displacement (cm3/rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
40	39.38	350	1900
60	59.86	350	1600
80	78.79	350	1400

## FRV variable displacement pump

Ideal for truck cranes with load-sensing systems, it provides the required flow at the right time. It incorporates a manual flow control, reducing the number of control valves necessary.

Available in ISO 4.



FRV Pump	Displacement (cm3/rev)	Maximum pressure P3 (bar)	Maximum speed P1 (rpm)
84	84	350	2500



# Vane pumps and Motors



Bezares Group

TDZ vane pumps are characterized by their small size in relation to the power output, quiet operation, flexibility of the positions of oil input and output/s and low maintenance costs.

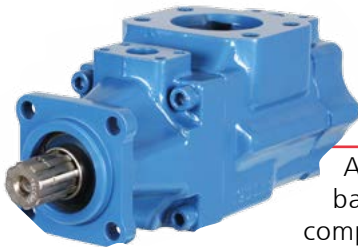
A wide range of flow rates are available, ranging from 3 cm<sup>3</sup>/rev up to 561 cm<sup>3</sup>/rev.

Their construction with the pump element in the form of a replaceable cartridge containing all moving parts ensures low maintenance costs.

These cartridges, interchangeable with pumps manufactured by Vickers or by Denison (depending on the model), can be changed in minutes without dismantling the hydraulic system. Their balanced design reduces wear and loads on the bearings. The ability to redirect the oil outputs provides great flexibility and ease of fitting.

Bezares manufactures two ranges of TDZ models, depending on the pump application (single, double or triple): Industrial, characterized by low noise levels, and mobile applications with higher rotation speeds, including versions with higher torque resistant shafts and reinforced seals.

TDZ vane motors range from 24 cm<sup>3</sup>/rev. to 120 cm<sup>3</sup>/rev. In addition to the standard Denison design models, we make others specifically for the agricultural sector, e.g. for tree vibrating applications, among others.



## Vickers Design

A full range of TDZ models based on Vickers designs. Both complete units and all spare parts are 100% interchangeable with models manufactured by Vickers.



## Denison Design

A full range of TDZ models based on Denison designs. Both complete units and all spare parts are 100% interchangeable with models manufactured by Denison.



## Spare parts for pumps and motors

A full range of TDZ spare parts for Bezares/TDZ, Denison and Vickers vane pumps and motors.

Type	Series	Disp.	Max. Speed	Max. Press.
TDZ Design				
Single Vane Pump	BHP1	2,...7	2500	175
Single Vane Pump	BHP4, BHP6, BHP7	26,...235	2500	210
Denison Design				
Single Vane Pump (Very High pressure)	T7B	6,...52	2800	320
Single Vane Pump	T6C, T6D, T6E,	11,...270	2800	275
Double Vane Pump (Very High pressure)	T7BB, T67CB, T67DB, T67EB	9,...270	2800	320
Double Vane Pump	T6CC, T6DC, T6EC, T6ED	11,...270	2800	275
Triple Vane Pump (Very High pressure)	T67DBB, T67EDB	9,...270	2800	320
Triple Vane Pump	T6DCC, T6EDC	11,...270	2800	275
Vickers Design				
Single Vane Pump	V10, V20	1,...13	4800	175
Single Vane Pump	20V, 25V, 35V, 45V	2,...72	2500	210
Double Vane Pump	2520V, 3520V, 3525V	2,...45	2500	210
Double Vane Pump	4520V, 4525V, 4535V	2,...72	2500	210
Thru Drive Vane Pump	25VT, 35VT, 45VT	8,...72	2500	210
Single Vane Pump	V10F, V20F, VTM42	1,...13	4800	175

BZD 180L  
tipping valve  
- 2 Pneumatic  
pressures

180 litre proportional open circuit tipping valve. Relief valve with pneumatic selector for two pressure ranges.



*Tipping valves*  
*Directional*  
*Valves*

*Flow diverters*

*Flow controllers*

*Pressure relief*  
*valves*

*Non-return*  
*valves*

*Bypass valves*

*Pressure reducers*

*Other*

## Why choose Bezares valves?

Bezares supplies a wide variety of valves, from open and closed circuit units for tipper applications, to pressure relief valves, flow diverters and end-of-stroke limiters. Various actuators are available, both pneumatic and electric, and push or pull end-of-stroke limiters.

Tipping valves are characterized by their small size and close machining tolerances, which ensure proportionality and total control of descent under all types of load conditions.

Their ductile iron construction enables maximum working pressures of up to 400 bars.

# Valves



## Tipping Valves BZD-BZV 150 / 180 / 250

Tipping valves, with proportional open or closed circuit units having two descent speeds of up to 250 litres, a pneumatic shift, and with a pressure relief valve adjustable up to 400 bars. These include a non-return valve, push or pull end-of-stroke limiters, an optional pressure switch and a pressure sensor. We can also supply 2 and 3 pressure limiters to control various applications

## Flow diverter, Diverter valves 901011

Pneumatic and mechanical models designed without a stopping point between A and B.

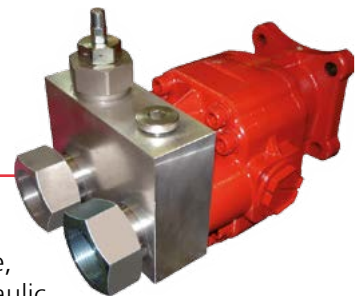


## 150L for fitting to BE L 50/60/80/100/120

Tipping valves, with proportional open circuit units coupled to a pump for 250 litres, with a pneumatic shift and a pressure relief valve. This avoids the need to fit a pressure return hose to the tank, allowing discharge through the feed line. It allows configuration of pump rotation in both directions, and it can be rotated by 120° to avoid fitting overlaps.

## Pressure relief valves for BE L Pumps

With an aluminium body for fitting to the L series of BE pumps. Relieves pressure overloads building up in the pressure line to the feed line, preventing unnecessary wear on the hydraulic circuit components.



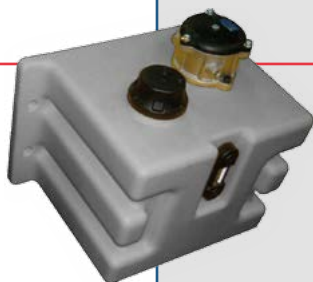


# Oil Tanks

Side mounted

With flanges for filter and oil level control. Finished in painted steel, aluminium and stainless steel.

Steel | HDPE



Filter and oil level control. Light, durable design, finished in polyethylene, 100% recyclable.

Rear-Cab

With oil level control. Finished in painted sheet steel.



Finished in high quality linear polyethylene, 100% recyclable.

## On chassis



20 or 40 litres, finished in painted sheet steel.

## Accessories

Our range of accessories for oil tanks includes oil filters for return line fitting, manifolds for fitting control valves, flow valves and vapour release plugs.



### Side mounted

25 to 200 litres  
Aluminium, stainless steel,  
painted steel and high density  
polyethylene.

### Rear-Cab

10 to 200 litres  
Painted steel and high density  
polyethylene.

### On chassis

20 and 40 litres  
Painted steel



## Side mounted oil tank: 75 - 200L

Side-mounted tank with flanges for filter and oil level control. Finished in painted sheet steel. Optional oil filter.

## Why choose Bezares Oil tanks?

Bezares offers a full range of tanks. From rear-cab models, to side and chassis mounted versions to suit all types of hydraulic systems and applications and a wide variety of trucks and commercial vehicles.

Different sizes covering all our customers' fitting requirements, ranging from 25 litres to 200 litres. Customers can choose between different materials of manufacture; aluminium, plastic, stainless steel and standard grey-painted steel.

Our range of accessories for oil tanks includes oil filters for return line fitting, manifolds for fitting control valves, flow valves and vapour release plugs.

*Side mounted oil tank*

*Rear-Cab oil tanks*

*Chassis oil tanks*



## Why choose Bezares hydraulic kits?

We have a wide variety of product combinations that allow us to meet all needs and applications. Good mounting flexibility thanks to the different tanks options, both lateral and rear-cab, and the compact design of our components.

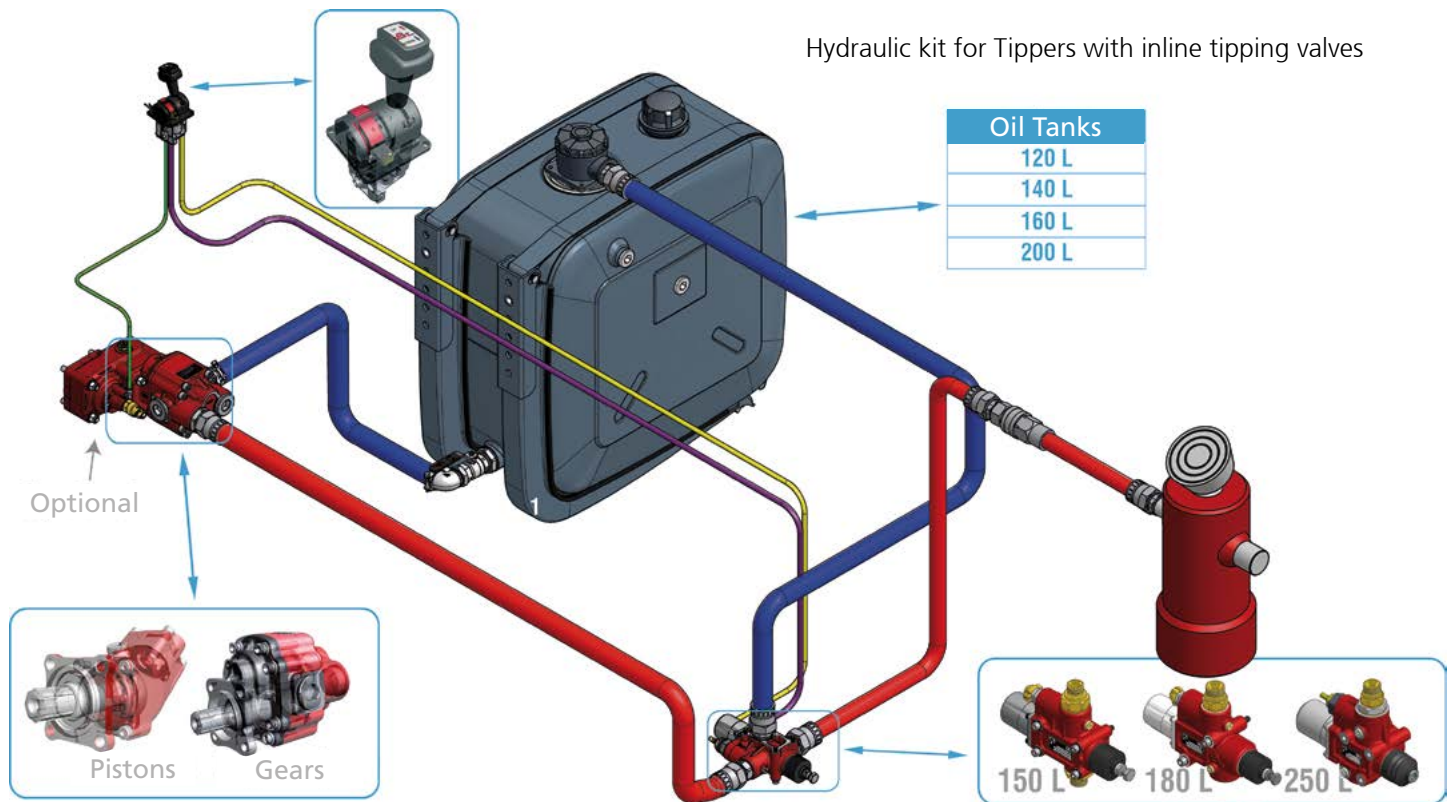
Hydraulic equipment consists of the following hydraulic components:  
Power Take-Off (PTO), Hydraulic pump (piston, gear or vane), Oil tank (side tanks from 120 litres to 200 litres, available in steel, aluminium or stainless steel), pneumatic controller (in-cab and pipe fittings), Hydraulic valve, Pressure hoses, End-of-stroke limiters and Accessories.

Our wide range makes combinations for all applications possible.

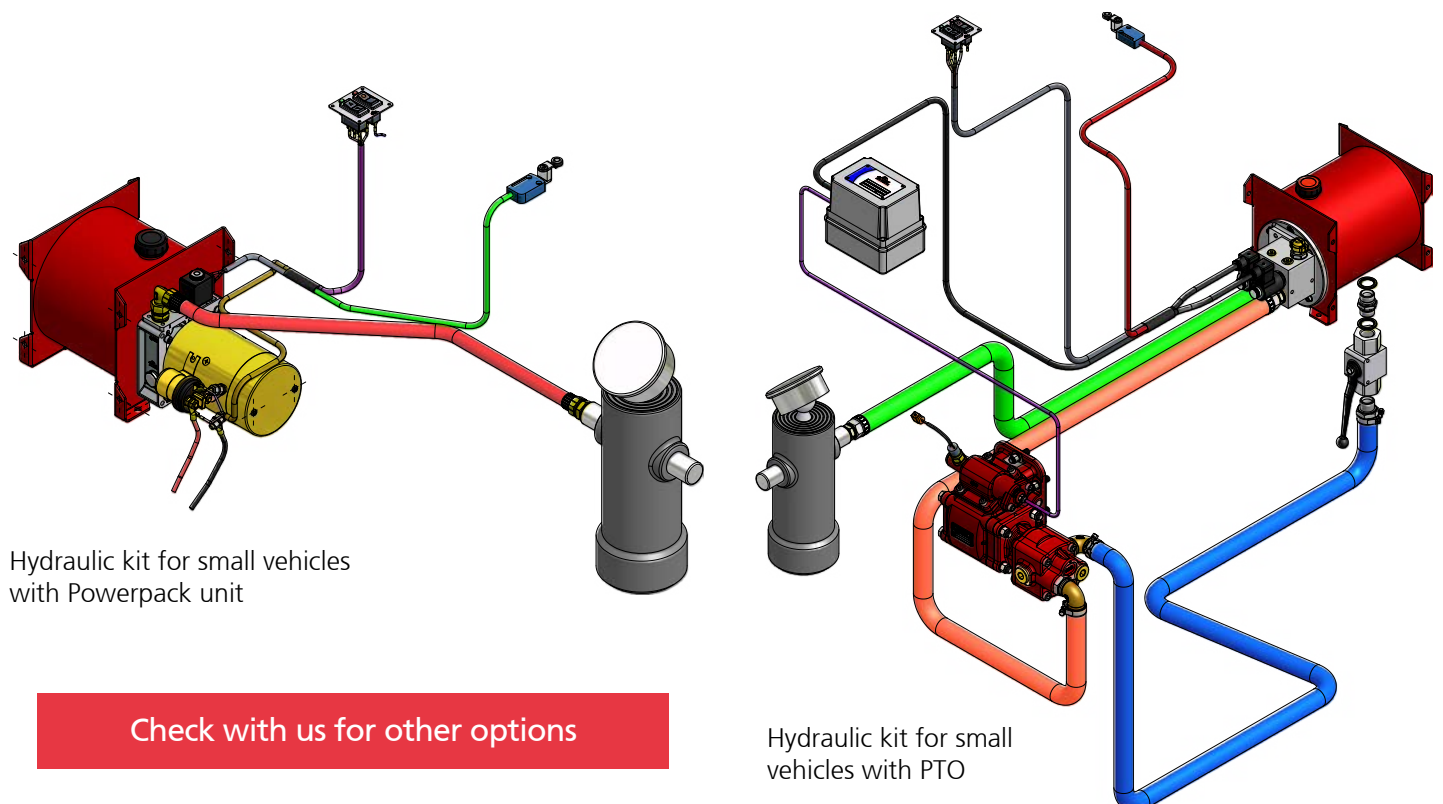


# Hydraulic Kits

## Large vehicles



## Small Vehicles



# Hydraulic Power-Packs



## Micro power-packs

Compact systems used in applications such as loading ramps or lifts for vehicles for the disabled.

Steel tanks - Mini power-packs	
Capacity (L)	Weight (kg)
5	3.0
7.5	4.0
10	5.3
15	8.1
15	6.3
20	7.2

HDPE plastic tanks - Mini Power-pack	
Capacity (L)	Weight (kg)
1.5	0.25
4	0.5
6	0.9
8	1
10	1.1
12	1.25
16	1.5

## Mini power-packs

Made of high-pressure-injected cast aluminium. The standard version is used for single and double action applications. There are versions for special applications which, combined with the use of cartridge valves (SAE 08 - 3/4 "-16 UNF), allow multiple circuits to be used. The new housing is compatible with the components from previous versions of BZ mini power-packs.



## Inline power-packs

Electro-hydraulic 12V, or 24V DC for heavy-duty applications, with pressures up to 250 bars. Includes a starter and an anchor bracket.

### Motors - Mini Power-pack

DC 12V 1,5 / 2,0 kW

DC 24V. 2.0 kW (ventilated)

AC 230/400 Volts 0,25 - 5,5Kw

### Pumps - Mini power-packs

Q (cm³/rev)	0.8	1.3	1.6	2.17	2.6	3.2	4.2	5.8	8
L (mm)	73.5	74.5	76.5	77.5	79.5	82.5	87.5	93.5	101.5
Maximum operating pressure (bar)	200	210	200	210	210	200	180	140	100
Maximum Intermittent Pressure (Bar)	250	250	250	250	250	250	230	210	140
Max. rpm.	4000	4000	4000	4000	4000	4000	2500	2500	2500
Weight (Kg)	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.5	1.6
Part Number	9086914	9096114	9087614	9075014	9039014	9075114	9087514	9094714	9087714

### Micro power-packs

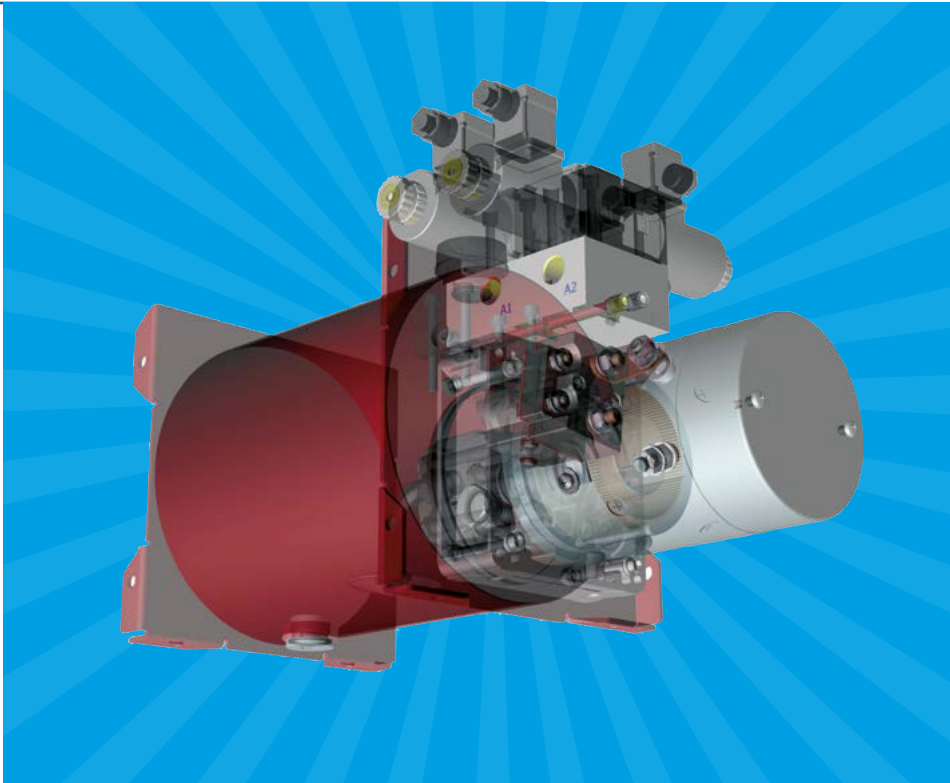
DC motors 12/24V 0'8 Kw  
Metal tanks from 0.75 L to 2 L

### Mini power-packs

DC motors 12/24V: 1.5 - 3 Kw  
1.5 to 30L tanks (plastic or metal.)

### Inline power-packs

DC Motors: 12/24V, 3 - 4.5 kW



## Mini Power-pack

These mini power packs are available with both AC and DC motors, pumps ranging from 0.8cc to 7.2cc, and with a range of plastic and steel tanks from 0.5l up to 20l. We also supply a wide variety of accessories that allow this equipment to be used in many different applications, both mobile and industrial.

## Why choose Bezares hydraulic Power Packs?

Our range extends from the micro to low flow applications, through mini power-packs up to inline power packs and industrial systems.

Micro Power-pack direct current models range from pumps from 0.25 to 0.75cc and tanks from 0.5l to 2l. Some of their applications are for lifts for the disabled or for the rotational movement of solar tracker platforms.

Our mini power-packs come with both AC and DC motors, with pumps ranging from 0.8cc to 7.2cc, and a variety of plastic or steel tanks from 0.5l up to 20l. We also supply a wide range of accessories.

Bezares has various models of DC motor pump sets, with ventilated 3Kw and 4.5kW motors and pumps from 4.4 cc to 11 cc for higher throughput applications and higher pressures.

*Micro  
Power-packs*

*Mini  
Power-packs*

*In-line  
Power packs*

*Industrial  
applications*



## Compact Winch

Compact and lightweight winch for up to 3.5 tonnes. Its simplified design is the result of Bezares experience in the design and development of winch technology, with special attention to improving the efficiency, compact design, reduced weight and number of internal parts without sacrificing performance, resulting in the optimum technical features in a small unit.



*Hydraulic  
winches*

*Electric  
winches*

*Lifting winches*

## Why choose Bezares winches?

To complete our range of mobile hydraulic equipment, Bezares also supplies hydraulic winches with line pulls from 3500 kgs to 30,000 kgs.

For winches under 10,000 kg, we offer two drum sizes for each model to allow spooling of different cable lengths. We can also provide a version with a particularly small drum and another with extra-large capacity.

The models between 3500 and 7000 kg are built with a planetary gear system, are bidirectional and have the option of mechanical or hydraulic brakes via a double piloted overcentre valve.

On request, we can also offer lifting winches particularly suitable for fitting to cranes from 750 kg to 5750 kg and electric winches of proven quality.

# Winches



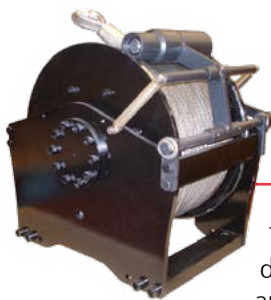
## Heavy-duty winch

Hydraulic Winch with two-stage planetary geartrain.

Bidirectional, with an overcentre valve and a mechanical emergency brake capacity of 100%. Made of tempered aluminium, with a compact design giving a lower overall weight compared to other models with the same pulling capacity.

## Heavy load winches

Hydraulic winch for line pulls of up to 20,000Kg with 2-speed pneumatic shift, planetary reduction gearing, automatic multi-disc oil bath brake (applied when the winch is not operating) brake valve and guide rollers.



## Lifting

Hydraulic lifting winches are available from 750Kg to 5750 kg. Counter-clockwise direction of rotation, negative multidisc brake and internal lubrication.

## Electrical

Check with our sales department for information on our catalogue of electric winches.



## Hydraulic winches

Model	Max line pull 1st layer (kg)	Maximum Pressure (bar)	Maximum Speed (m/min)
3500	3500	150	25
4600	4600	150	21
6800	6800	180	16
10000	10000	180	18
15000	15000	180	12
20000	20000	180	22

# Transfer and Multiplier Gearboxes

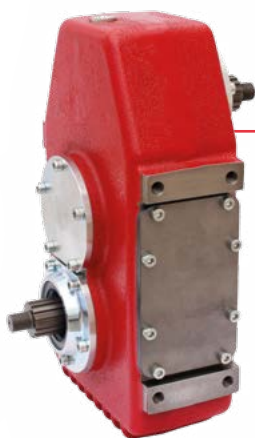


## Intermediate PTO's

Designed for Ford and Mercedes vehicles, with different types of output and shift. Support brackets and silent block bushes are supplied as options.

## 4x4

Special gearbox to convert 4x2 vehicles to 4x4, 2 speeds (40% and 47%), torque up to 2000 Nm and with the ability to connect a PTO.



## Multiplier Gearboxes

Vertical, high power. Bottom input, top output. Available with different internal ratios.

## Agricultural gearboxes

Special for tractors with different output types (SAE B, SAE BB, ISO).

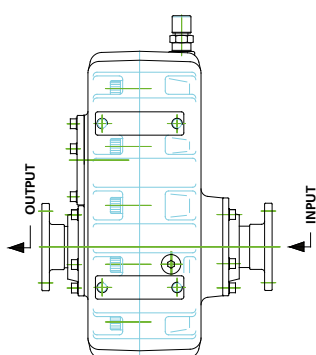
Made of high strength tempered aluminium, giving high torque and power.

Available with double output.

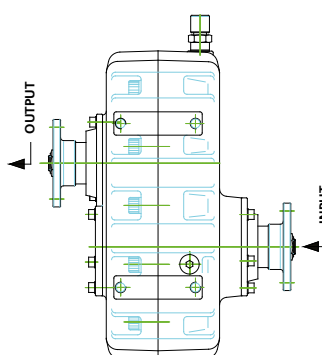


## Types of multiplier gearboxes available

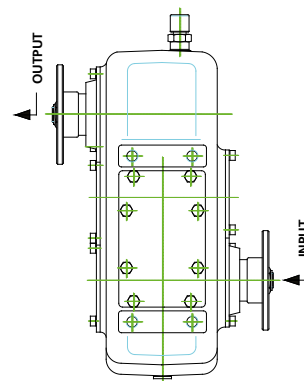
1 - COAXIAL



2 - NON COAXIAL



3 - VERTICAL







6013399  
(+ PTO1000)

Transfer gearboxes with windows for fitting 2 PTO's, which allows great flexibility when choosing the best position for the auxiliary shafts. A wide range of internal ratios enables the right one for every application.

## Why choose Bezares gearboxes?

Bezares has a wide range of transfer gearboxes and gearboxes for applications that require high rpm together with high torque and power transfer.

The product offers great flexibility both in its technical characteristics (speed ratios, various standard flanges for fitting pumps and cardan transmissions) and its applications, covering the vehicle and agricultural sectors. It is therefore a product that can be adapted to our customers' specific requirements and applications.

Options include medium and high power gearboxes. In particular the gearboxes for agricultural use have the undeniable advantage of their compact design in tempered aluminium, which optimizes space, fitting and weight reduction. We also manufacture double output agricultural gearboxes.

Bezares also supplies Intermediate PTO's for very demanding setups, where power requirements and mobile working make fitting on the main transmission of the vehicle necessary.

Strict quality control and technical design ensure the reliability and endurance of our gearboxes, offering the customer a product that is both competitive and giving high added value.

Bezares provides TDZ valves as part of a comprehensive selection of solenoid valves, pilot operated relief valves and flow and pressure control valves in modular or sandwich format. Our fitting system with stackable valves allows an infinite variety of circuits, minimizing the space required, thus saving on installation time and on costly piping installations.

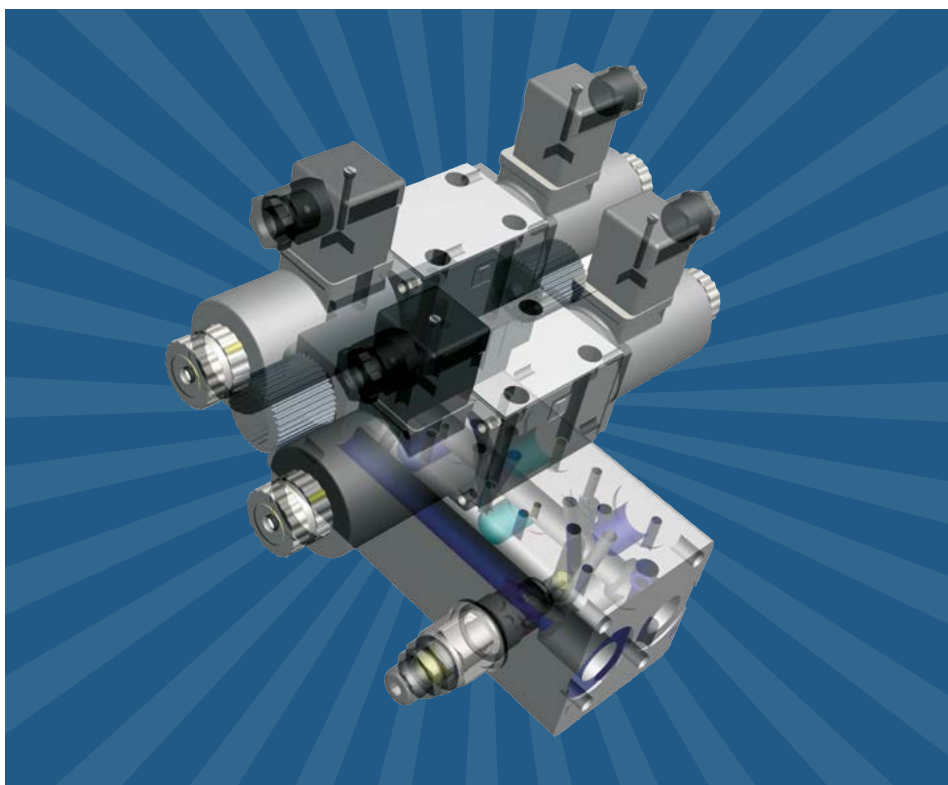
"TDZ valves are manufactured under the CETOP standard. We have a large stock for immediate delivery in CETOP 3,5,7 and 8 (TN-6, 10, 16 and 25) sizes."

CETOP 10 (TN-32) valve sizes are also available upon request.

Our range of TDZ valves allow working pressures of up to 350 bar and flow rates up to 1100 l/min, making this range suitable for use in demanding situations such as industrial and naval applications.

Complementing our series of valves, Bezares manufactures a full range of CETOP manifold blocks in aluminium or cast iron, with or without built-in pressure limiters, with 1 to 8 stations and side or rear ports. Additionally, we can design and manufacture special hydraulic blocks for any application according to our customer's requirements.

# CETOP Valves



## CETOP Valves

A comprehensive selection of solenoid valves, tipping control valves and flow and pressure control valves in modular or sandwich format. Our fitting system with stackable valves allows an infinite variety of circuits, minimizing the space required, thus saving on installation time and on costly piping installations.

## CETOP Manifolds

A full range of standard CETOP manifolds, in aluminium or cast iron (GG25), with or without built-in pressure limiters, from 1 to 8 stations and with side or rear ports.



### Directional Valves

Solenoid valves  
Max Pressure: 350 bar (5000 psi)  
Max flow rate: : TN-06(CETOP3) 30 ~ 60 l/min.  
( 8 ~ 17 GPM)

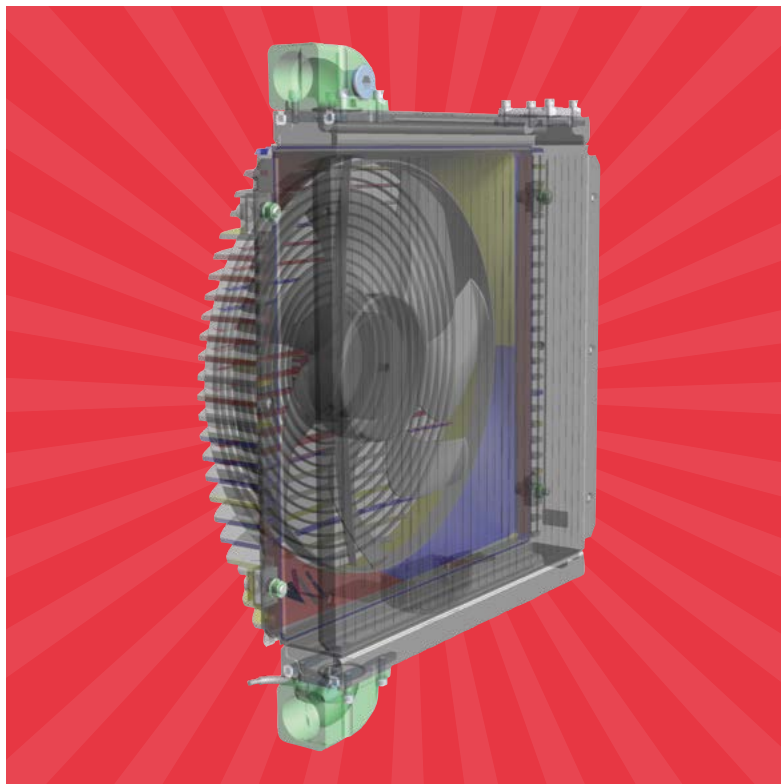
Tipping Valves  
Max Pressure: 315 bar (450 psi)  
Max flow rate: TN-16(CETOP3) 300l/min.  
(79.25GPM)  
TN-25(CETOP8) 500l/min. (132GPM)  
TN-32(CETOP10) 1100l/min. (290GPM)

### CETOP Base subplates & Manifolds

Solenoid valves  
Max Pressure: Cast Iron(GG25) 350bar(5000psi),  
Aluminium 250bar (3600psi)

Sizes:  
TN-06, TN-10, TN-16, TN-25 (CETOP-3, 5, 7,8)

# Accessories



## Why choose Bezares accessories?

Our wide range of accessories includes adaptors for PTO's, fittings, coolers, clutches, cylinders, oil filters and everything needed to complete the installation of hydraulic equipment.

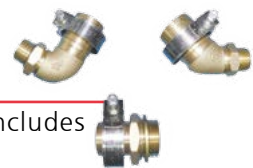


### Adapters

Spacer kit to avoid possible overlapping when fitting the pump onto the PTO. Different bearing combinations according to the needs of the application.

### Suction Pipe Fittings

For hydraulic pumps. Includes reinforced clamp.



### 2 and 3 way Pneumatic controller

With an operating warning light for PTO and hydraulic valve operators on tipper. When combined with the right tipping valve, proportional lowering of the tipper is achieved.

### Pneumatic control supports



### 2 and 3 way pneumatic controller

Operation with an air flow of up to 300 l/min. It comes as standard with the relay, thermostat (set to 470) and the connection kit.

### Pneumatic pressure kit

Mini air compressor, maintenance free. Sealed protective case. This unit provides air pressure in small vehicles that do not have their own compressed air tank.





Quality at all levels  
The best customer service  
Minimum environmental impact



Building our world

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