



Manuale di manutenzione sistema idraulico

Hydraulic System Maintenance Manual

File information	
File name	XNT_MNT_HYL_R56
Major revision	01
Minor revision	01
Date	08-01-2025



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1 Cautions

The **XENTA** hydraulic steering systems does not contain any user serviceable parts, but requires maintenance and repair by **XENTA** personnel or authorized personnel.

Any unauthorized intervention will void the warranty.

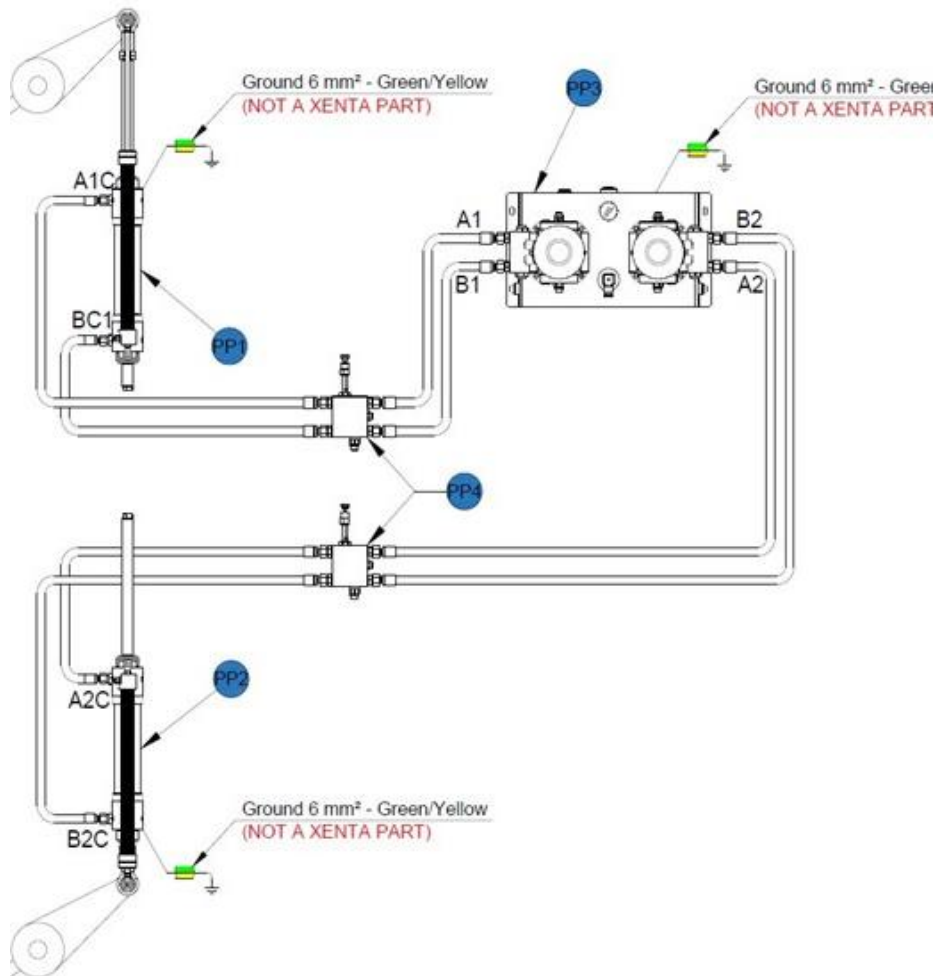
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2 Service and maintenance

The hydraulic system is controlled by the electronic system and acts directly on the rudders, orienting them in the required direction.

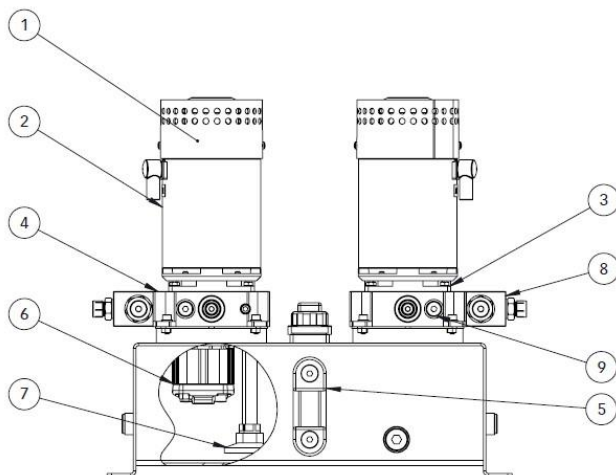
The image below shows the connections between the Power Pack and the rudders.



XENTA strongly recommends that you carry out all the checks listed in this maintenance manual to ensure the correct and reliable operation of the system.

2.1 Power Pack

The following diagram shows the list of components of the Power Pack model PR15-0002.

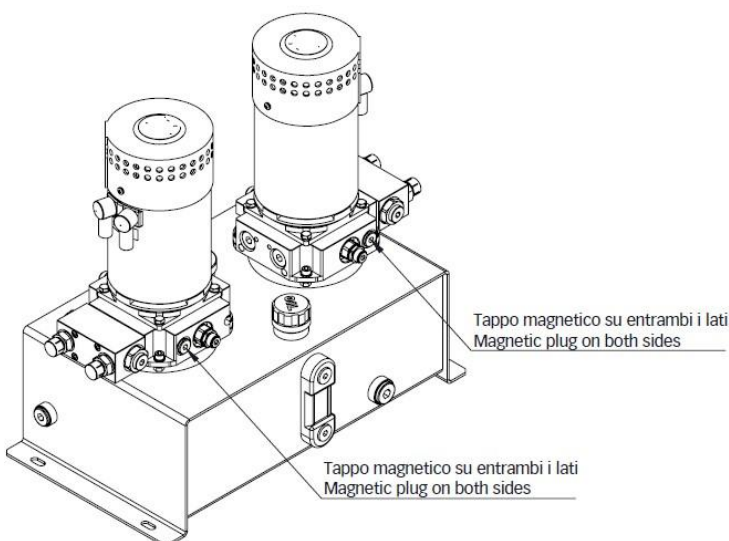


Article number	Description	Quantity
1	Electric motor brushes	2
2	Electric motor M71-B14-24V	2
3	Junction element M71	2
4	Central collector type: XMR15	2
5	Oil level indicator	1
6	Pump G.1	2
7	Suction filter	2
8	Flanged check valves type: VNRR15	2
9	Magnetic cap	4

The following table shows the maintenance work required for the PowerPack.

POWER PACK	
Operation	Frequency
Oil level visual check	Monthly
Hydraulic connections check	Biannual
Backup system operation check	Biannual
Collector magnetic caps cleaning/replacement	Annual or 700 hours
Replacement of M71-B14-24V electric motor brushes	2 years or 700 hours
Filtered hydraulic oil replacement (ISO 4406:1999, class 20/18/15) Type: ISO VG 32	2 years or 4000 hours
Suction filter replacement	4 years or 13000 hours
Electric motor replacement Type: M71 B14	6 years or 13000 hours

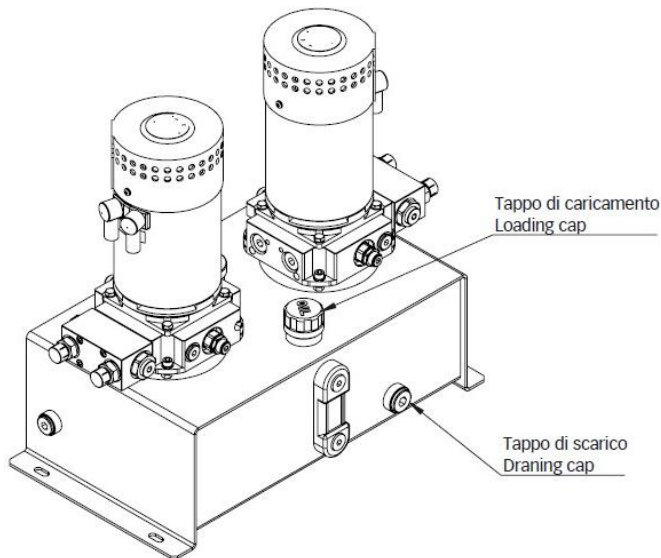
MAGNETIC CAPS CLEANING / REPLACEMENT



To ensure maximum performance of the PowerPack, it is necessary to keep the magnetic caps on the collector clean, in order to prevent the passage of metal residues into the hydraulic circuit.

Replacement of the cap is recommended to ensure a tight seal during installation.

HYDRAULIC OIL REPLACEMENT



To ensure maximum performances of the PowerPack, it is necessary to completely empty the tank and fill it with new, clean oil, such as ISO VG32, making sure that there is no water in the oil.

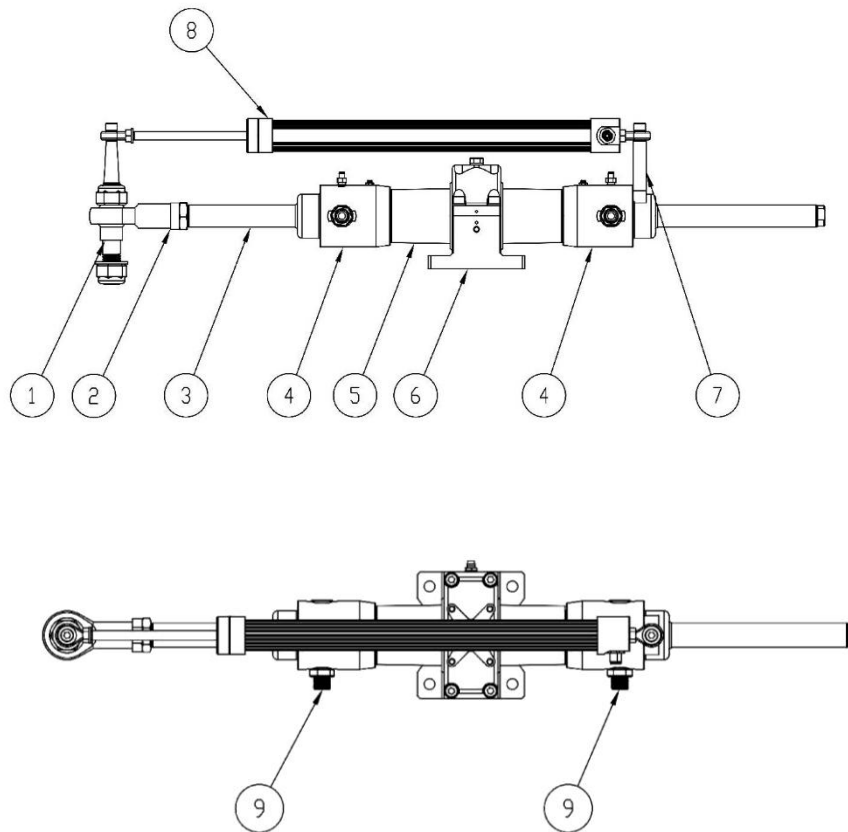
The oil used for filling must be filtered and have a maximum degree of contamination according to ISO 4406:1999, class 20/18/15 (filtration through a filter from 10 to 25 microns is recommended).

If it is necessary to replace one or more components, it is possible to order the spare parts by sending the relative order by e-mail to the address orders@xentas.com explaining the code of the component(s) requested as shown below:

	SP-	-	
ARTICLE NUMBER	_____	_____	POWERPACK SERIAL NUMBER

2.2 Cylinders

The following diagram shows the list of components of the cylinders.

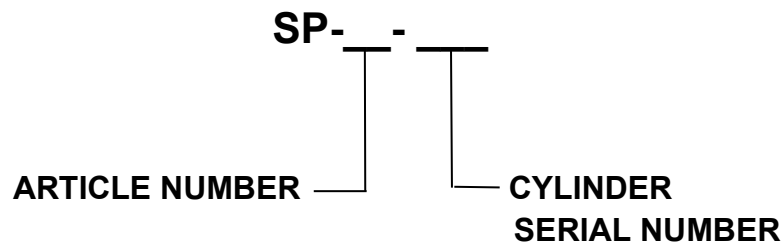


Article number	Description	Quantity
1	Pin tiller arm	1
2	Rod end ISO 12240-4	1
3	Cylinder rod CI037 CI037FC	1
4	Cylinder head front	2
5	Cylinder	1
6	Ball support	1
7	Sensor support	1
8	Linear sensor	1
9	Nipples 3/8"G	2

The following table shows the maintenance work required for the hydraulic cylinders.

CI-037FC CYLINDER	
Operation	Frequency
Hydraulic seals visual check	Biannual
Hydraulic connections check	Biannual
Spherical bearing's grease recovery by grease nipple	Biannual
Oil application on the position linear sensor's rod	Biannual
KGTC sealing gaskets replacement	3 years or at any leakage
Rod end replacement (article n.2)	5 years or at excessive wear

If it is necessary to replace one or more components, it is possible to order the spare parts by sending the relative order by e-mail to the address orders@xentas.com explaining the code of the component(s) requested as shown below:



COMPONENTS KIT	
Sealing gaskets kit	KGTC – (Cylinder Serial Number)