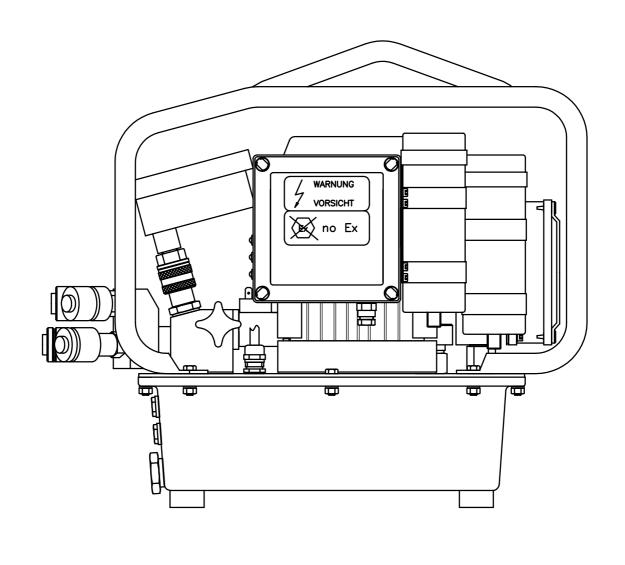
# Parts List Hydraulic Pump

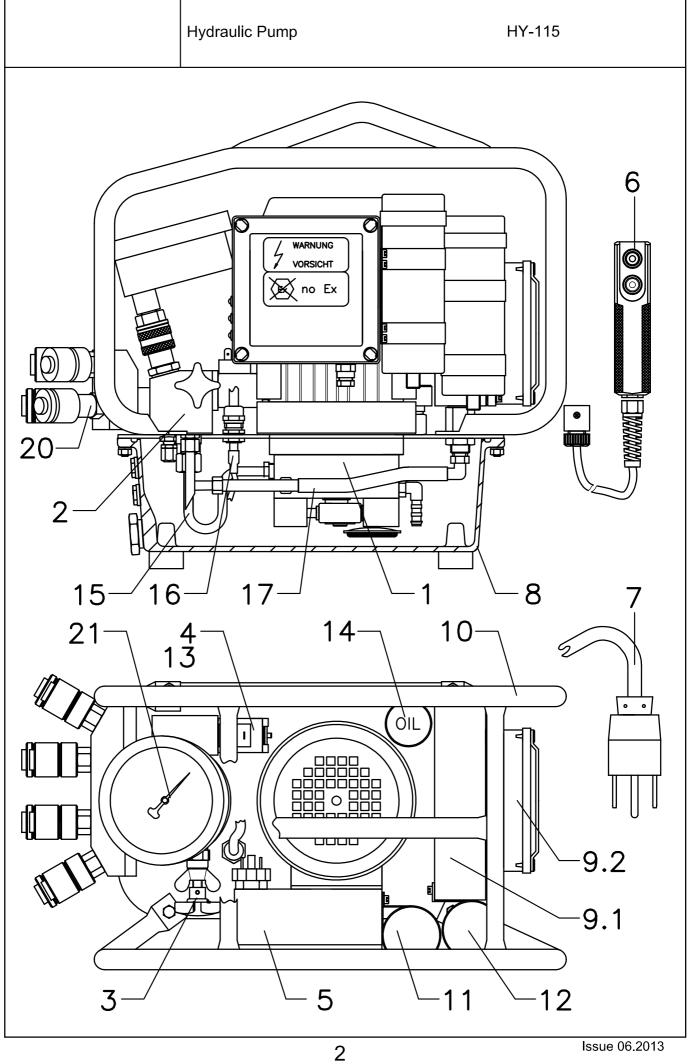
HY-115

Serial No. 15 505 1515 to 15 505 1564



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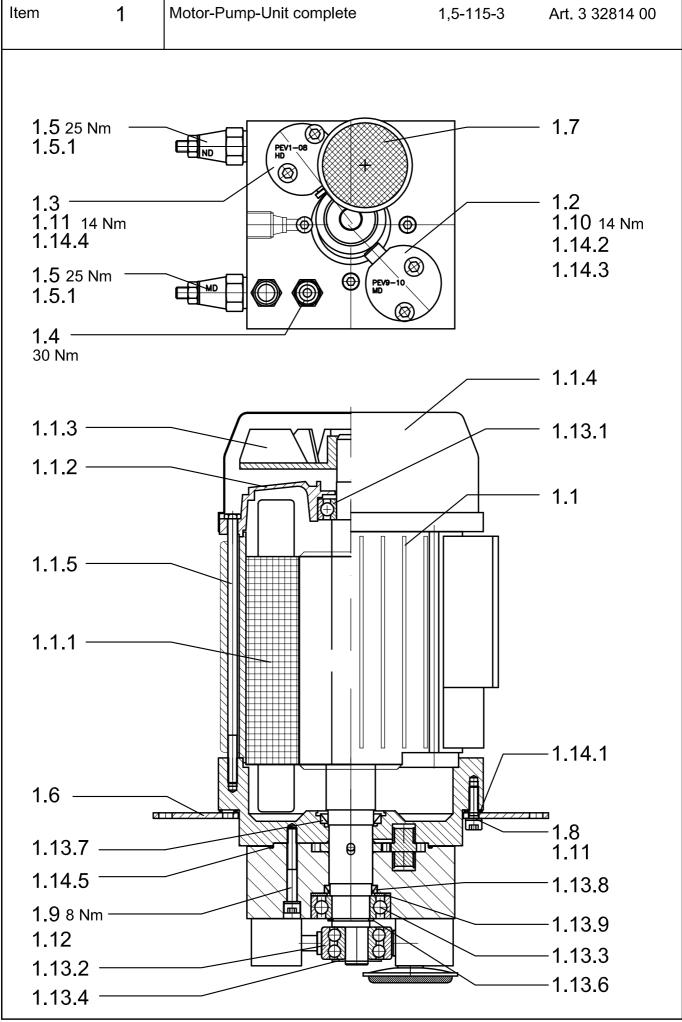


		Hydraulic Pump	HY-115	5
Item	Quantity	Name	Туре	Part. No.
*1	1	motor-pump-unit complete	1,5-115-3	3 32814 00
*2	1	Valve block compl. but without manometer, solenoid- valve and torque valve		3 32886 00
*3	1	torque valve	DBE 4-700 VD	31 041 400
*4	1	solenoid valve	SHY-E4-W1	17 440 009
*5	1	electric-control-compl.	EPS5-115V	3 32887 00
6	1	remote control compl.	FB4-2-5m	3 32089 00
7	1	power supply	115V / 3,5m	3 32029 00
*8	1	oil tank compl.	G 5	3 32338 00
9	1 contents	oil cooler compl.	115V	3 32309 00
9.1	1	cooler block		3 32307 00
9.2	1 contents	fan motor, compl.	Gr.1,115V	3 32308 00
9.2.1	1	protective screen	127x127	40 380 028
9.2.2	4	cylinder head screw	M4x12-8.8 verz. ISO 4762	44 014 081

3

		Hydraulic Pump		HY-	115
Item	Quantity	Name		Туре	Part. No.
9.2.3	4	hex nut		M4-8 verz. ISO 4032	54 314 001
9.2.4	4	toothed washer		A-4.3 verz. DIN 6797	53 914 001
10	1	carrying handle			9 06773 00
11	1	Operating capacitor		120µF / 250V	3 32888 00
12	1	starting condensator		100µF / 250V	3 32889 00
13	1	solenoid valve cable		115V	3 32816 00
14	1	Air escape valve		TMDF-12	3 32890 00
15	1	pipework (valve block)			3 32891 00
16	1	temperature sensor			3 32818 00
17	1	pipework			3 32892 00
*20		Couplings			
*21		Manometer			
Tech	nical Data	cut off point	ASE-4 ND	(Item 1.5)	=7000 kPa 70 bar 1015 Psi
		cut off point	ASE-4 MD	(Item 1.5)	=25900 kPa 295 bar 4278 Psi
* : T	hese parts are	e listed seperately			

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Item	1	Motor-Pump-Unit complete	1,5-115-3	Art. 3 32814 00
Item	Quantity	Name	Туре	Part. No.
1.1	1	motor unit complete but without rotor and electriccontrol	M71-110/75-115V	3 32819 00
1.1.1	1	motor-housing	M71-110/75-115V	3 32820 00
1.1.2	1	end plate	M 71	40 240 035
1.1.3	1	fan wheel	M 71	40 250 005
1.1.4	1	fan housing	M 71	40 250 022
1.1.5	4	hexagon screw	M5x140	45 015 371
1.2	1	middle-pressure-pump, compl.	PEV 9-10 rd	18 221 101
1.3	1	high-pressure-pump, compl.	PEV 1-08 rd	18 211 081
*1.4	1	Max. pressur valve	DBT 1,5-750	17 830 813
*1.5	2	cut off valve	ASE-4	31 043 067
1.6	1	cover	G5/M71	2 06331 03
1.7	1	screen filter	SF 05-A-1/4	3 32362 00
1.8	4	cylinder head screw	M5x18-8.8 verz. DIN EN ISO 4762	50 115 111
1.9	3	cylinder head screw	M5x40-8.8 verz. DIN EN ISO 4762	50 115 221
1.10	4	cylinder head screw	M6x30-10.9 verz. DIN EN ISO 4762	44 016 181
1.11	4	sealing ring	5x9x1 WE DIN 7603	51 405 091
1.12	3	locking ring	A5 DIN 7980	51 215 001

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Item	1	Motor-Pump-Unit complete	1,5-115-3	Art. 3 32814 00
Item	Quantity	Name	Туре	Part. No.
Item	1.13	Set of bearings		3 32499 00
	content	s:		
1.13.1	1	ball bearing	6202.2RSR	40 600 042
1.13.2	1	ball bearing	4301	40 600 080
1.13.3	1	ball bearing	6004	40 600 027
1.13.4	1	locking ring	ZA 12	40 600 059
1.13.6	1	locking ring	20x1,2 DIN 471	52 302 001
1.13.7	1	oil seal	24x32x5 BA	47 002 089
1.13.8	1	oil seal	22x28x4 BAOF	47 002 083
1.13.9	1	washer		2 06351 00
Item	1.14	Set of seals		3 32539 00
	content	s:		
1.13.7	1	oil seal	24x32x5 BA	47 002 089
1.13.8	1	oil seal	22x28x4 BAOF	47 002 083
1.14.1	1	seal	M 71	2 05898 00
1.14.2	1	o-ring	8x1,5-90 NBR	49 000 821
1.14.3	1	o-ring	6,5x1,5-90 NBR	49 000 641

7

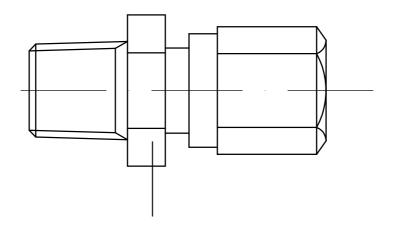
Issue 03.2013

Item	1	Motor-Pump-Unit complete	1,5-115-3	Art. 3 32814 00
Item	Quantity	Name	Туре	Part. No.
1.14.4	2	o-ring	5,5x1,5-90 NBR	49 000 551
1.14.5	1	o-ring	82x1,5-70 NBR	49 008 214
1.13.4	1	locking ring	ZA 12	40 600 059
1.13.6	1	locking ring	20x1,2 DIN 471	52 302 001

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<sup>\*:</sup> These parts are listed seperately

 Item
 1.4
 Max. Pressure Valve
 DBT 1,5-750
 Art. 17 830 813



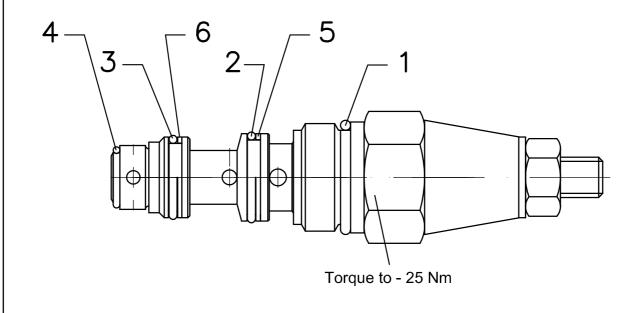
Hexagon - 14 mm Torque to - 30 Nm

Warning: This Valve is adjusted by the factory.
The manipulation of the adjustment may cause damage of the system and / or personal injure.
Assembly or disassembly only possible with Hexagon 14 mm.

9

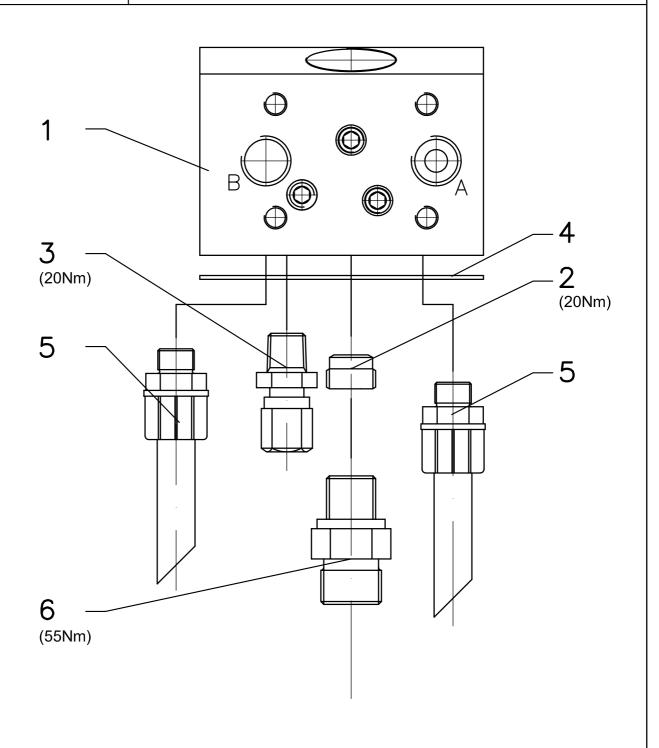
Issue 11.2007

 Item
 1.5
 Cut Off Valve compl.
 ASE - 4
 Art. 31 043 067



1.5.1 Seal Kit for Cut Off Valve compl. Item Art. 31 090 259 contents: Part. No. Item Quantity Name Type 1 49 001 421 o-ring 14x1,5-90NBR 2 1 o-ring 10,3x1,2-90NBR 49 001 011 3 1 10x1,2-90NBR 49 001 021 o-ring 49 000 731 4 1 o-ring 7x1-90NBR 5 1 ring 11,2/13x0,7-POM 47 003 031 6 1 ring 47 003 033 10,2/12x0,6-POM

10 Issue 02.2007



11

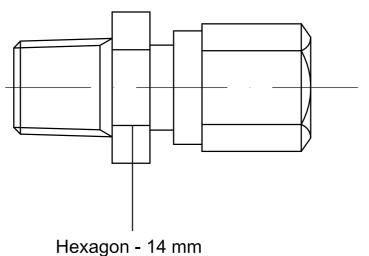
Item: **3**Warning:
Assembly or disassembly only possible with hexagon 14 mm.

Item: 2 pasted into with nut locking LOXEAL 83.54

Item: **6** pasted into with nut locking LOXEAL 55.03

Item	2	Valve Block compl.	NG4	Art. 3 32886 00
Item	Quantity	Name	Туре	Part. No.
1	1	valve block	4/2-NG4	3 32885 00
2	1	check valve	RVB 6	12 010 206
*3	1	pressure valve	DBT 1,5-100/110	31 090 802
4	1	seal		30 045 212
5	2	tank pipe	G 1/8-8/6	31 090 851
6	1	screw in socket	GE 08-SR 1/4"	48 008 006

<sup>\*:</sup> These parts are listed seperately



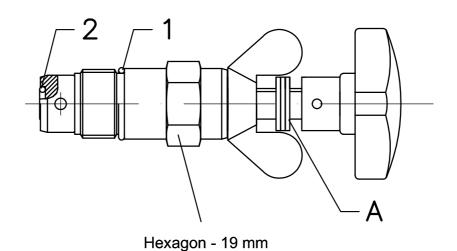
Torque to - 20 Nm

Warning: This Valve is adjusted by the factory.

The manipulation of the adjustment may cause damage of the system and / or personal injure.

Assembly or disassembly only possible with Hexagon 14 mm.

Item 3 Torque Valve DBE 4-700 VD Art. 31 041 400

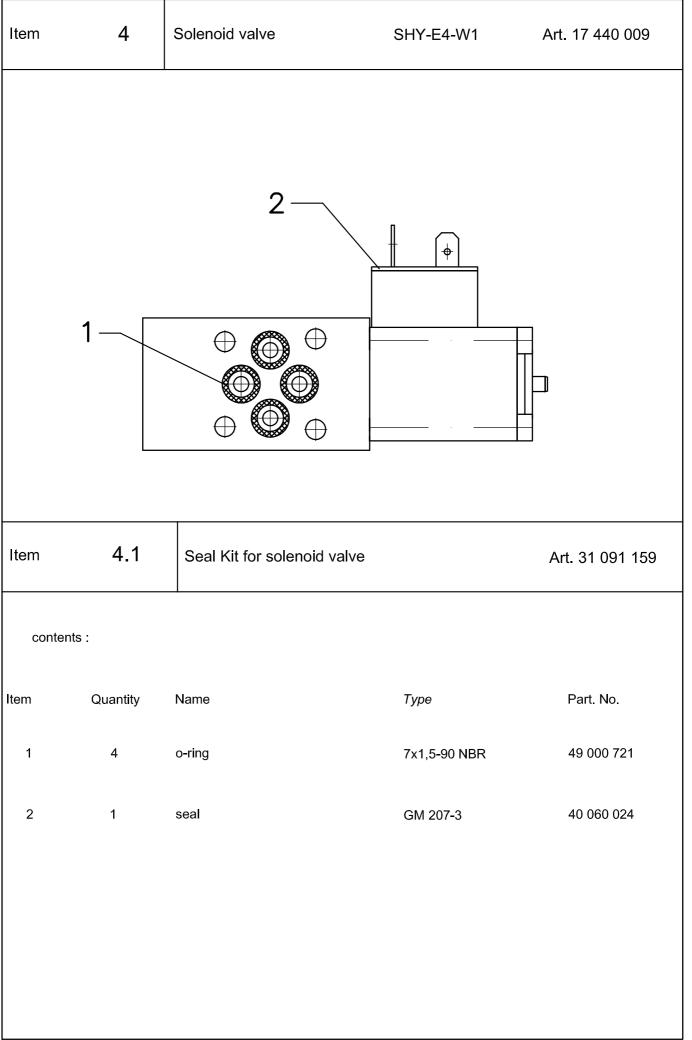


Advice: In case of pressure loss a pressure of 700 bar (10.000 psi) can be reached by removing some shim rings ("A").

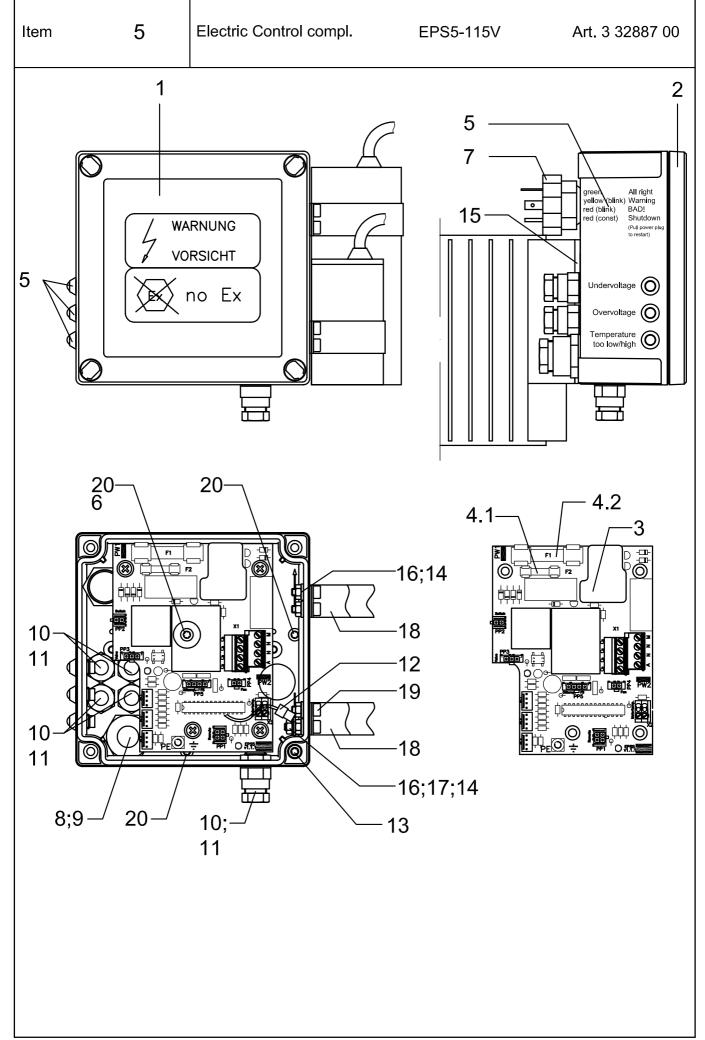
Item	3.1	Seal Kit for Torque Valve		Art. 31 090 785
Item	Quantity	Name	Туре	Part. No.
1	1	o-ring	16x1,5-90 NBR	49 001 621
2	1	o-ring	6x1,5-90 NBR	49 000 621

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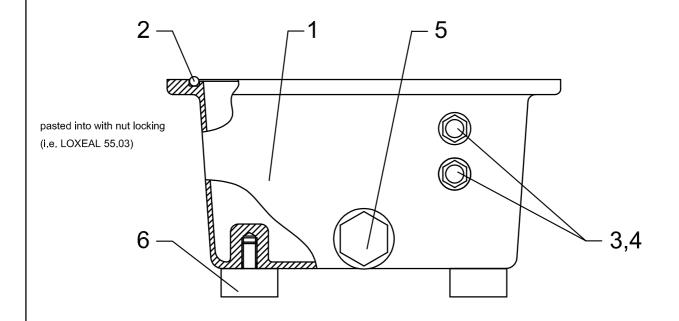


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Item	5	Electric Control compl.	EPS5-115V	Art. 3 32887 00
Item	Quantity	Name	Туре	Part. No.
1	1	cover complete with cover, LED and PG-screwings		3 32893 00
2	1	housing cover		3 32025 00
3	1	circuit board	EPS5-115V	3 32894 00
4.1	1	fuse F1	630mA-Ø5x20	40 350 091
4.2	1	fuse F2	30A-Ø6,3x32	40 350 104
5	1	LED, RGB		3 32895 00
6	1	washer	A4,3-verz. DIN 9021	46 351 420
7	1	plug for remote control		3 32896 00
8	1	cable thread joint	M20	40 220 149
9	1	locknut	M20	40 120 121
10	5	cable thread joint	M12 (Conus)	40 220 071
11	5	locknut	M12-Ms	40 120 030
12	1	earthing cable		3 32027 00
13	1	tapping screw	3,5x19 verz. ISO 14585c	46 556 104
14	4	sealing ring	M4-Polyamid	47 002 057

Item	5	Electric Control compl.	EPS5-115V	Art. 3 32887 00
Item	Quantity	Name	Туре	Part. No.
15	1	Sealing for clamp box		40 060 016
16	5	hex nut	M4-8 verz. ISO 4032	54 314 001
17	1	toothed washer	A-4.3 verz. DIN 6797	53 914 001
18	4	tensioning belt	Ø50	40 360 005
19	4	cylinder head screw	M4x14-8.8 verz. ISO 4762	44 014 091
20	3	tapping screw	3,5x13 verz. ISO 14585c	46 556 103



Item	Quantity	Name	Туре	Part. No.
1	1	tank	G 5	32 091 027
2	1	seal	Ø290x5 - 70 NBR	49 029 054
3	2	sight glass	GN 541-11 G3/8"-A	40 300 004
4	2	nut	G3/8"-Ms	40 030 001
5	1	plug	GN 740-3/8"	40 430 039
6	4	rubber feet	Ø30/15-M8x14	40 020 002

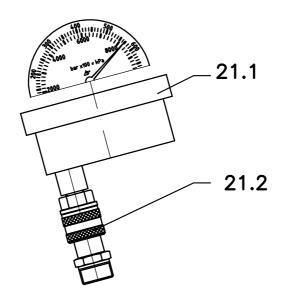
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Item	20	4-Tool Adapter - Pioneer	Art. 1	0 490 019
	).3—\ ).1—\ ve)		20.4 20.4 20.2 (down)	
Item	Quantity	Name	Туре	Part. No.
20	cor	4-Tool Adapter compl.	Pioneer	10 490 019
20.1	4	Pioneer screw male coupling	3010-2	40 230 009
20.2	4	Pioneer screw female coupling	3050-2	40 230 010
20.3	4	double nipple	1/4" NPTF	30 042 202
20.4	2	adapter, compl.		3 32459 00
Item	20.4.1	Seal Kit for adapter compl.	Art	. 3 32460 00
	cor	ntents:		
	1	o-ring	14x1,5-90NBR	49 001 421
	1	o-ring	8x1,5-90NBR	49 000 821

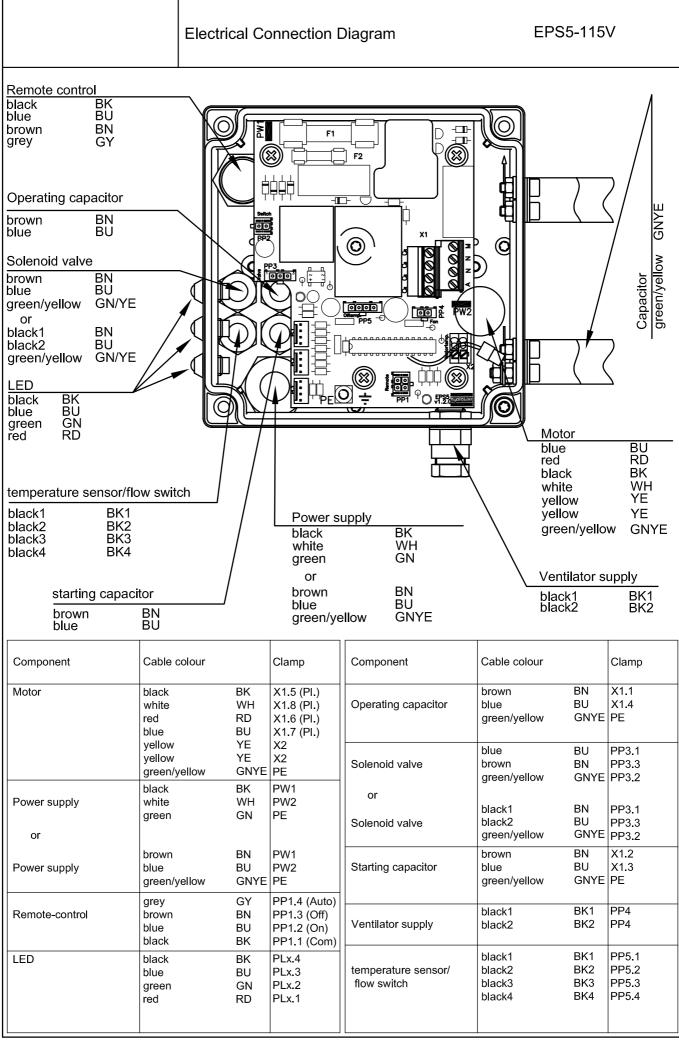
20 Issue 03.2012

Item 21 Manometer Art. 3 32468 00

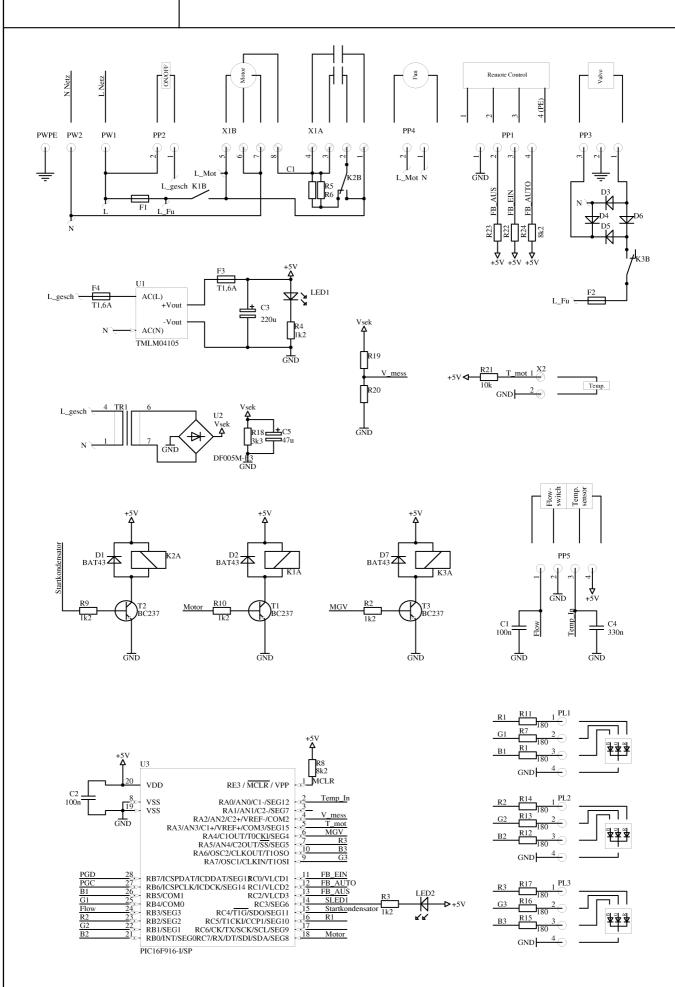


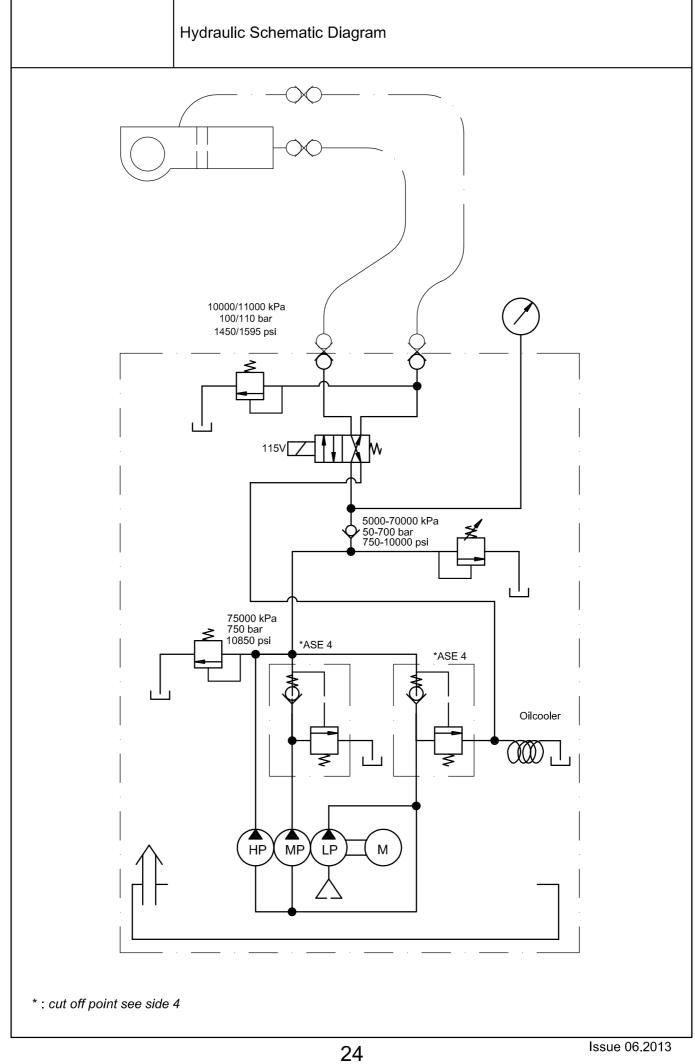
Item	Quantity	Name	Туре	Part. No.
21.1	1	manometer	NG100-1%FS	40 540 019
21.2	1	Skip-more-adapter		9 06767 00

21 Issue 03.2012



22 Issue 02.2014





Change of oil product name						
The oil used so far named <b>AralVitam HF32</b> is now named <b>Hyspin HVI32</b> with the identic performance.						
Both oils can be mixed with each other.						

Γ

#### SAFETY DATA SHEET



#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

**Product name** Hyspin HVI 32 **Product code** 460892-DE04 SDS no. 460892 **Product type** Liquid.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Hydraulic fluid For specific application advice see appropriate Technical Data Sheet or consult

substance/mixture our company representative.

1.3 Details of the supplier of the safety data sheet

Supplier BP Europa SE

Industrial Lubricants & Services Erkelenzer Straße 20 D-41179 Mönchengladbach

Germany

Telefon: +49 (0)2161 909-30 Telefax: +49 (0)2161 909-392

F-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

**EMERGENCY** Carechem: +44 (0) 1235 239 670 (24 hours)

**TELEPHONE NUMBER** 

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** Mixture

Classification according to Directive 1999/45/EC [DPD]

This product is not classified according to EU legislation.

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including

amendments) and take into account the intended product use.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

#### 2.2 Label elements

Risk phrases This product is not classified according to EU legislation.

Safety phrases Not applicable. Supplemental label

elements

Not applicable.

#### **Special packaging requirements**

Containers to be fitted with child-resistant

Not applicable.

fastenings

Tactile warning of danger Not applicable.

2.3 Other hazards

Other hazards which do Note: High Pressure Applications

not result in classification Injections through the skin resulting from contact with the product at high pressure constitute a

major medical emergency.

See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

#### SECTION 3: Composition/information on ingredients

Substance/mixture Mixture

Highly refined mineral oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

This product does not contain any hazardous ingredients at or above regulated thresholds.

Product name Hyspin HVI 32 Product code 460892-DE04 Page: 1/7 Version 1 Date of issue 10 February 2011 Format Germany Language ENGLISH

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if

irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if

symptoms occur.

No action shall be taken involving any personal risk or without suitable training. **Protection of first-aiders** 

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing

media

Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

#### 5.3 Advice for firefighters

Special precautions for

fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

**Special protective** equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

Large spill

Immediately contact emergency personnel. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Product name Hyspin HVI 32 Product code 460892-DE04 Page: 2/7

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#### **SECTION 6: Accidental release measures**

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional

information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section

10).

Not suitable Prolonged exposure to elevated temperature.

7.3 Specific end use(s)

**Recommendations** See section 1.2 and Exposure scenarios in annex, if applicable.

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### **Occupational exposure limits**

**ACGIH TLVs** 

Base oil - unspecified

#### ACGIH (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier. Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for quidance only.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived No Effect Level**

No DELs available.

#### **Predicted No Effect Concentration**

No PNEC available.

#### 8.2 Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection**

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.

Provided an air-filtering/air-purifying respirator is suitable, a filter for particulates can be used. Use filter type P or comparable standard.

Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.

A combination filter for particles, organic gases and vapours (boiling point >65°C) may be

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#### **SECTION 8: Exposure controls/personal protection**

required if mist or fume is present as well as vapour. Use filter type AP or comparable standard.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment

of the working conditions.

Eye/face protection Skin protection

Hand protection

Wear protective gloves if prolonged or repeated contact is likely.

Wear chemical resistant gloves. Recommended: Nitrile gloves.

Safety glasses with side shields.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the

supplier/manufacturer and with a full assessment of the working conditions.

**Skin and body**Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state
Colour
Amber.

Odour
Odour threshold
PH
Not available.

Melting point/freezing point
Initial boiling point and boiling
Not available.

range

Pour point <-30 °C

Flash point Closed cup: 186°C (366.8°F) [Pensky-Martens.]

Open cup: 200°C (392°F) [Cleveland.]

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or Not available.

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

**Density** 871 kg/m³ (0.871 g/cm³) at 15°C

Solubility(ies) insoluble in water.

Partition coefficient: n- Not available.

octanol/water

explosive limits

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity

Kinematic: 32 mm²/s (32 cSt) at 40°C

Kinematic: 6.3 mm²/s (6.3 cSt) at 100°C

Explosive properties Not available.

Oxidising properties Not available.

9.2 Other information

No additional information.

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#### **SECTION 10: Stability and reactivity**

10.1 Reactivity
No specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

10.2 Chemical stability The product is stable.

10.3 Possibility of Under normal conditions of storage and use, hazardous polymerisation will not occur.

hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid No specific data.

10.5 Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

10.6 Hazardous Under normal conditions of storage and use, hazardous decomposition products should not be

decomposition products produce

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Information on the likely Routes of entry anticipated:Dermal, Inhalation.

routes of exposure

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

Ingestion
No known significant effects or critical hazards.
Skin contact
No known significant effects or critical hazards.
Eye contact
No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### SECTION 12: Ecological information

12.1 Toxicity

Environmental hazards Not classified as dangerous

#### 12.2 Persistence and degradability

Biodegradable

#### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Soil/water partition

Not available.

coefficient (Koc)

Mobility Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

PBT Not applicable.
vPvB Not applicable.

12.6 Other adverse effects

Other ecological Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

information transfer could also be impaired.

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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste** European waste catalogue (EWC)

Waste code	Waste designation
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

**Packaging** 

Methods of disposal

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with

local regulations. Recycle, if possible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and Not applicable.

Other regulations

articles

**REACH Status** 

The company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

**United States inventory** 

(TSCA 8b)

Version 1

All components are listed or exempted.

Australia inventory (AICS) **Canada inventory** China inventory (IECSC)

All components are listed or exempted. All components are listed or exempted. All components are listed or exempted.

Japan inventory (ENCS) Not determined.

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#### **SECTION 15: Regulatory information**

Korea inventory (KECI) **Philippines inventory** 

All components are listed or exempted. All components are listed or exempted.

(PICCS) **National regulations** 

Hazard class for water

1 Appendix No. 4

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

#### **SECTION 16: Other information**

**Abbreviations and** acronyms

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

DPD = Dangerous Preparations Directive [1999/45/EC] DSD = Dangerous Substances Directive [67/548/EEC]

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H

statements

Full text of classifications

[CLP/GHS]

Not applicable

Not applicable

Full text of abbreviated R Not applicable.

Full text of classifications Not applicable

[DSD/DPD] **History** 

Date of issue/ Date of

10/02/2011.

revision

No previous validation.

Date of previous issue Prepared by

Product Stewardship

Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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## EC-DECLARATION OF CONFORMITY OF THE MACHINERY

In accordance with the EC machine directive 2006/42/EC of 17. May 2006, appendix II A

We hereby declare that the following described partly completed machines in their conceptions, constructions and forms put by us on the market, are in conformity with all the relevant essential health and safety requirements of the EC machinery directive 2006/42/EC as amended and the national laws and regulations adopting this directive. In case of alteration of the partly completed machine, not agreed upon by us, this declaration will lose its validity.

#### Name and address of the manufacturer:

HydroWer-Hydraulik GmbH Am Leveloh 15b DE - 45549 Sprockhövel (Germany)

JetPro 5-230, JetPro 5.2, JetPro 5.3, JetPro 6.3, JetPro 10-230, JetPro 10.3, JetPro 12-230, JetPro 12.3, JetStream 115, JetStream 230, JetPro 18.3, JetPro 36.3, JetStream 460, JetPro 4.2, JetPro 115, JetPro 230, MiniJet 115, MiniJet 230, HYTORC G115, HYTORC G230, AE 6.3, MiniAir, JetAir 6.2, HYTORC G-Air, JetAir 12.3, JetAir 12, JetAir 24.3, AE 11.2, AE 7.2, Pressure intensifier HD25, MiniJet-So/200-230V, CP 10A-230V, CP 10A-115V, CP 12A-230V, HYSTREAM115, HYSTREAM230, HYSTREAM-Air, JetPro-S-115, JetPro-S-230; HYTORC 115; HYTORC 230;

HYTORC Air; HY-115; HY-230; HY-Air

#### Furthermore we explain the agreement with further, likewise for the product valid directives/regulations:

Directive 2006/42/EC

EN ISO 4413:2010

safety requirements for fluid power systems

EN ISO 60204: 2006

safety of machinery electrical equipment

EN ISO 60335-1: 2012

safety of electrical

Directive 2004/108/EC

EN 55014-1: 2006/A2:2011 electromagnetic compatibility (EMV)

EN 55014-2: 1997/A2:2008 electromagnetic compatibility (EMC)

EN 61000-3-2: 2006

electromagnetic compatibility (EMV)

EN 61000-3-3: 2008

electromagnetic compatibility (EMC)

UL AWM Style 21098 or 2587, UL AWM Style 4476 / 3529, UL 508/UL 50, E147323, E15012,

E13393, E99479, E86615 for US-Market

#### Applicable Harmonized Standards 2006/42/EC

DIN EN ISO 12100:2010

safety of machinery

DIN EN 60204-1 2006

safety of machinery electrical equipment

Authorised to compile the relevant technical documentation

Sprockhövel / 20.02.2014

Rüdiger Lenz / Am Levelon 15b / DE - 45549 Spockhovel

Managing director

Sprockhövel / 20.02.2014

place

date

Kap Heinz Werner