Pro-Tech TOOLS

Hydraulic body extender 20t



Instructions for use

Translation of the original instructions

Safety instructions

The hydraulic system operates with high loads. Basic safety rules must be observed during work.

Before starting work, it is necessary to read the instructions for use and keep them for later use.

Never exceed the maximum load on the hydraulic system.

It is forbidden to move people or animals with this device.

The hydraulic system is intended for relocation only, use for other purposes is prohibited.

Do not extend the hydraulic cylinder beyond its nominal extension as there is a danger of the piston being forced out of the cylinder body.

Do not use loose work clothing and jewellery when working. Long hair should be

pinned up. Personal protective equipment should be used.

The hydraulic pump must be placed on a flat, , hard and stable base. The pad on which

the hydraulic cylinder will be supported must be stable and firm.

Repositioning of the safety valve is absolutely prohibited.

Keep and use the hydraulic system components well away from sources of heat and fire, as this could damage the equipment or impair its functionality. It is not permitted to place heavy objects on the hoses. Do not allow the hose to kink. Avoid contact of the hose with sharp or hot objects.

When disassembling the hydraulic system, make sure that the hose has the necessary space and that the hose or couplings are not damaged.

Before starting work, it is necessary to check whether any element of the hydraulic system is in any way. Should any element require repair, an authorised should be contacted. After disconnecting the lines, always fit the plugs that protect the hydraulic
the system from dust and other impurities. Should the load not be distributed symmetrically, pump carefully. Should it be necessary to exert too much force when pumping, stop the work and position the equipment so that the load is distributed more symmetrically. This will have the effect of reducing the pumping effort.

Never leave an assembled system unattended by a person authorized to operate the equipment Serve. Children and persons untrained in the operation of the equipment are prohibited from the workplace and the storage area of the hydraulic system components. Observe the general principles of occupational safety. Use caution, do not work if you are sedated or under the influence of medication.

Instructions for use

Installation and use of the hydraulic system

Connect the pump hose to the cylinder coupling by screwing the coupling nut onto the thread. Check that the nut is properly tightened. Close the relief valve by turning it . Pressurize the pump by moving the pump lever up and down. After a few strokes, the hydraulic cylinder will start working. For

to cancel the pressure in the pump, turn the valve counterclockwise. The moment the relief valve is opened, the cylinder will automatically begin to return to its resting position. Do not disassemble a hydraulic system that under pressure. The pump can be used in any position, both vertical and horizontal. When the pump is in the vertical position, the end with the hose attached must always point downwards.

Checking the oil level

In order to check oil level in the pump, it be placed in an upright with the hose pointing downwards. Open the relief valve. Unscrew the bleeder valve, pull out the oil dipstick and read the oil level. If necessary, adjust the oil level so that the oil covers the entire surface of the oil dipstick section. The equipment was filled with hydraulic oil at the factory. Use only oil of the appropriate type.

Pump venting

In order to bleed the pump hydraulic system, the pump must be placed an upright position with the hose pointing downwards. Open the bleeder valve .
Unscrew the bleeder valve and remove the oil dipstick. Make several full strokes with the pump lever. Close the bleeder valve. Fit the oil dipstick and close the bleeder valve.

Maintenance

The hydraulic system elements must be protected from moisture. They must not be exposed adverse atmospheric conditions, especially precipitation. Keep the system elements clean and free of any lubricants. All moving elements must be lubricated with oil. The condition of the elements should be checked periodically for rust.

Before each use, the technical condition of the hydraulic system components must be checked. In the any damage is observed, work with the hydraulic system is strictly prohibited. In this case, the equipment must be handed over to an authorised service for repair. Do not rebuild the relief valves, they have been adjusted at the factory to ensure nominal performance and maximum safety. When the hydraulic system is not in use, the pump must be stored with the relief valve open. It is recommended that an oil change be carried out after a period of heavy use to ensure a long service life of the equipment. In order to change the oil it is necessary to open the drain , open the bleed valve and pour the old oil through it. It must be ensured that no dirt enters the system. Fill the system
the appropriate type of hydraulic oil up to the level indicated in the point "checking the level".

The cigarette lighter should be kept in its original packaging. When the work is finished, all elements should be carefully cleaned with an honest cotton cloth. Particular care should be taken to secure the couplings
the hydraulic system by fitting protective plugs. It is recommended to store the kit at temperatures above 0 °C to ensure that the hydraulic oil parameters are maintained at the appropriate level.

Disorders

Failure	Possible cause	Troubleshooting
The pump is not working	Impurities in valve seals	Take the device to an authorised service centre
	Worn seals	
The pump does not develop pressure	Aerated hydraulic system	Carry out the venting procedure
Pump is not stable under load		
The pump does not start completely		
The pump does not develop pressure	Incorrect oil level in the pump reservoir	Carry out the oil level check procedure

Technical data:

clamping force: 20 t

Weight: 36 kg Piston

stroke: 130 mm

Working range: 330 - 460 mm