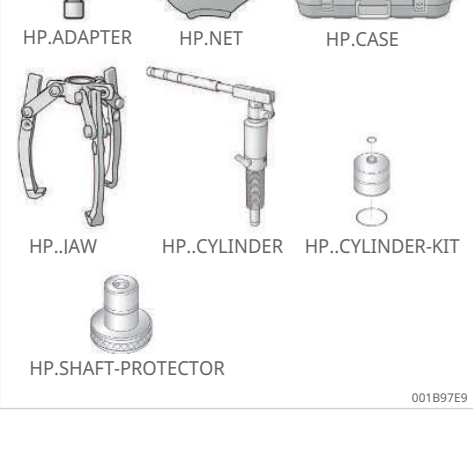
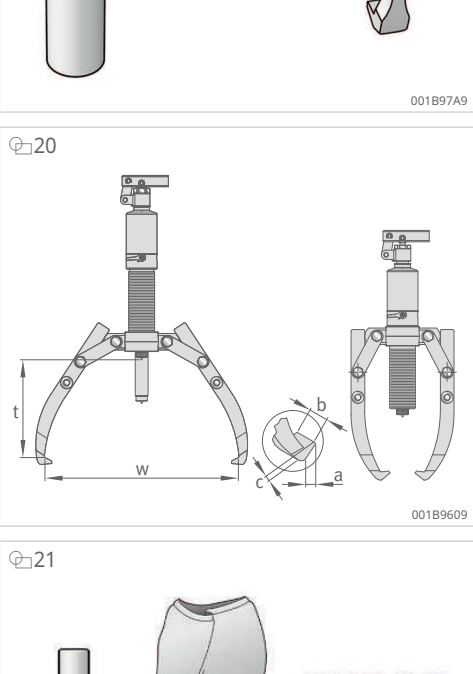
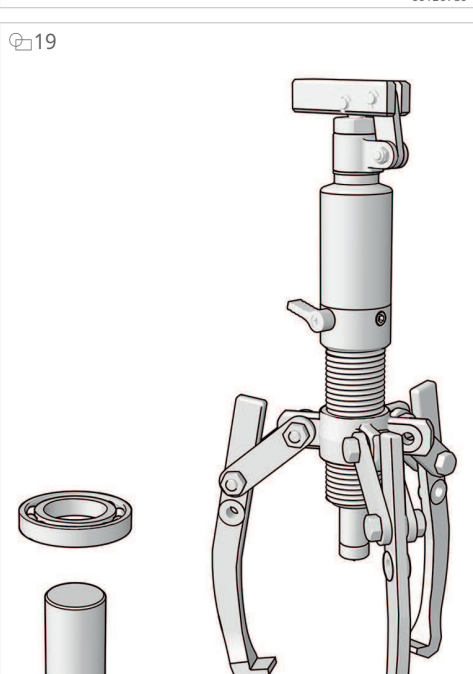
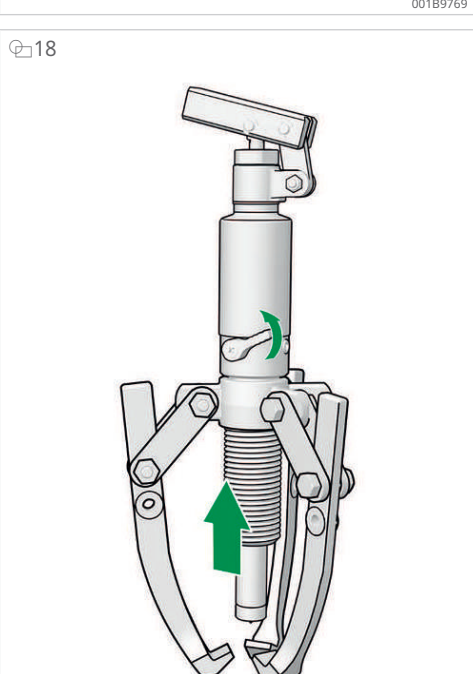
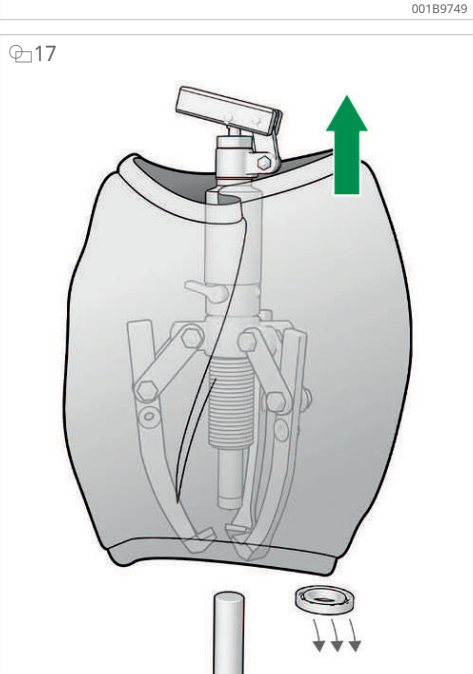
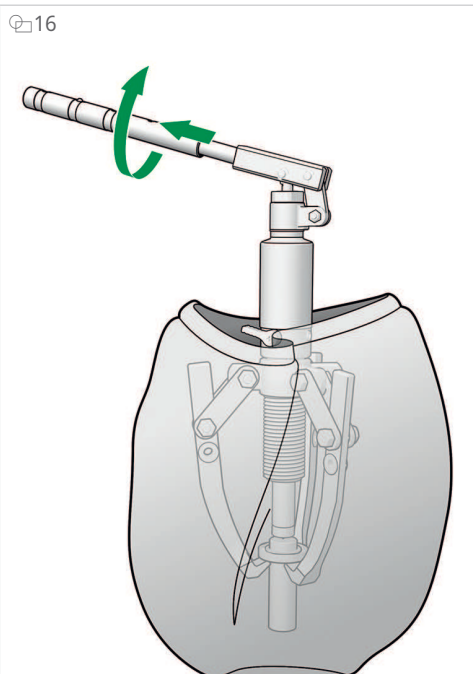
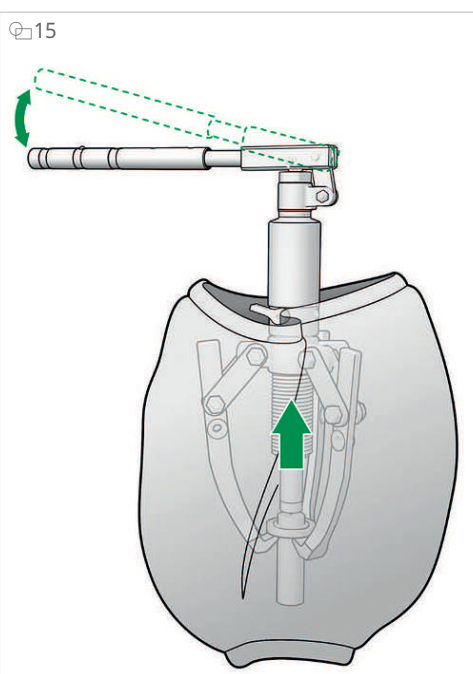
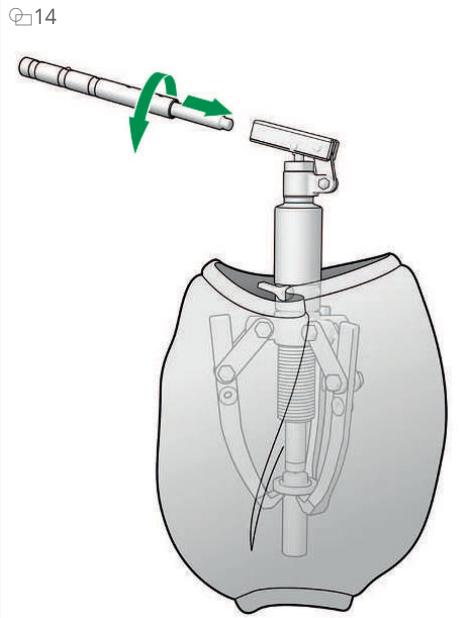
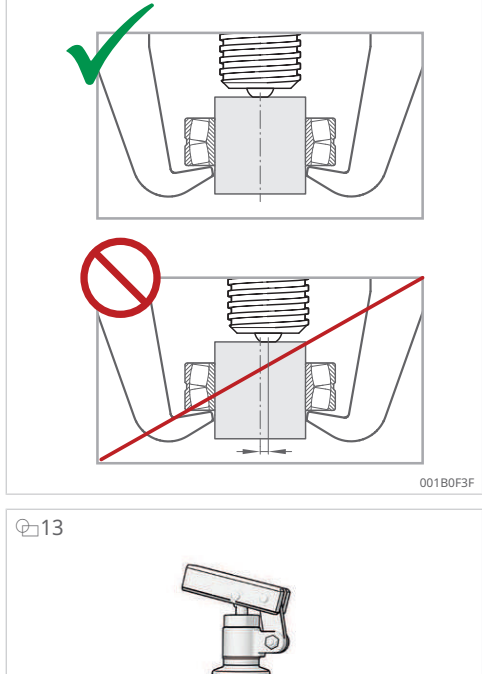
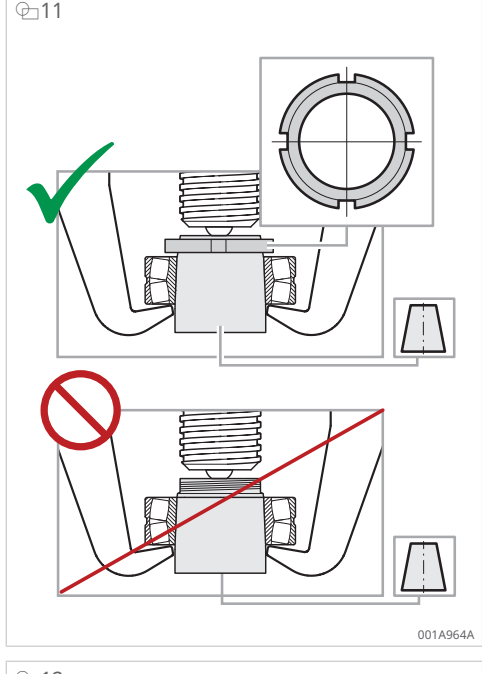
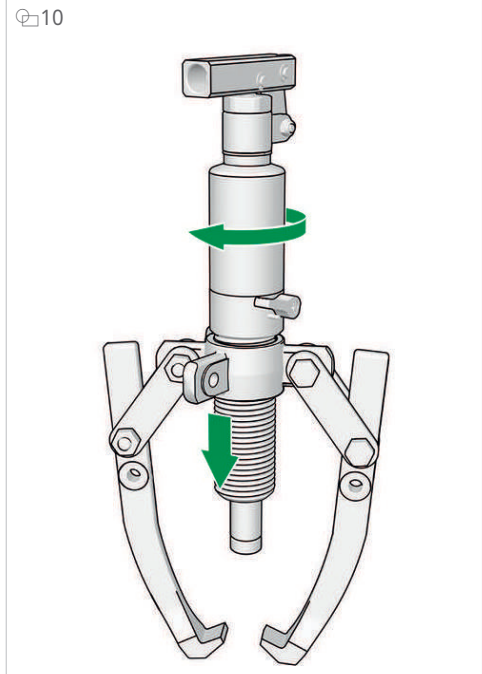
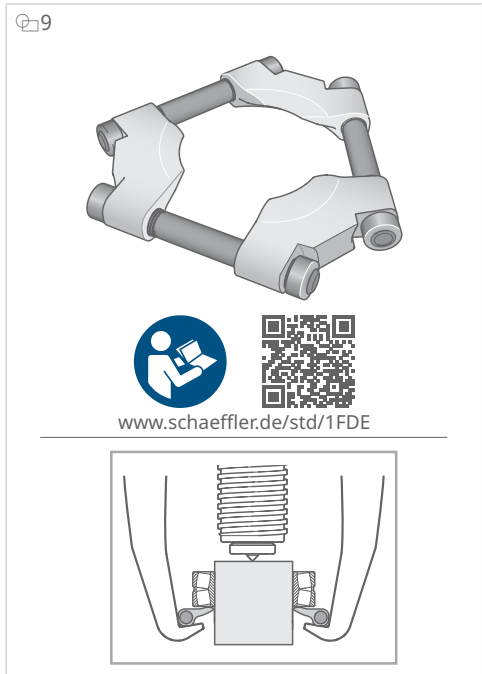
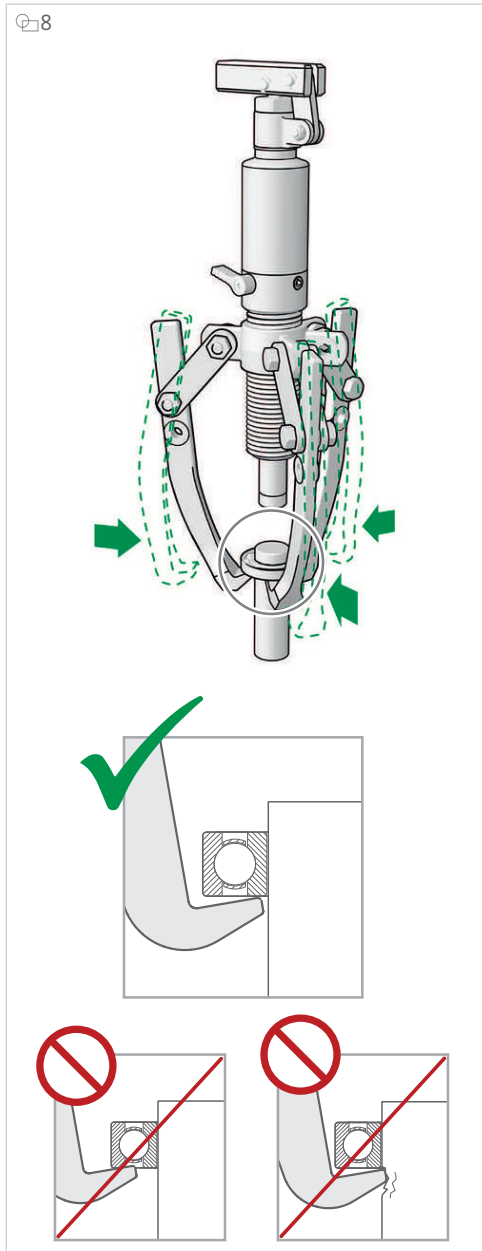
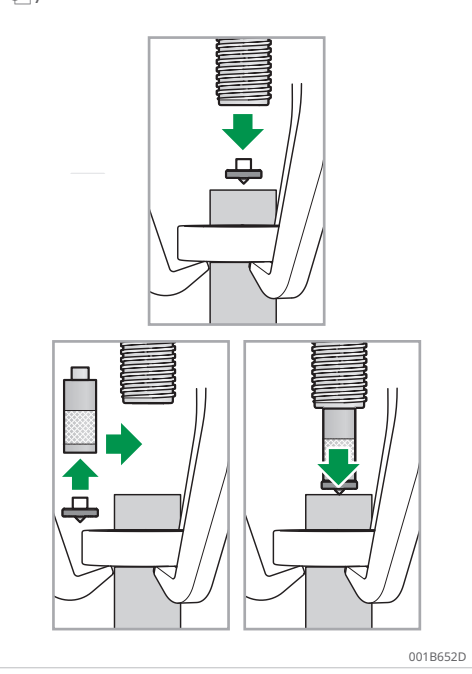
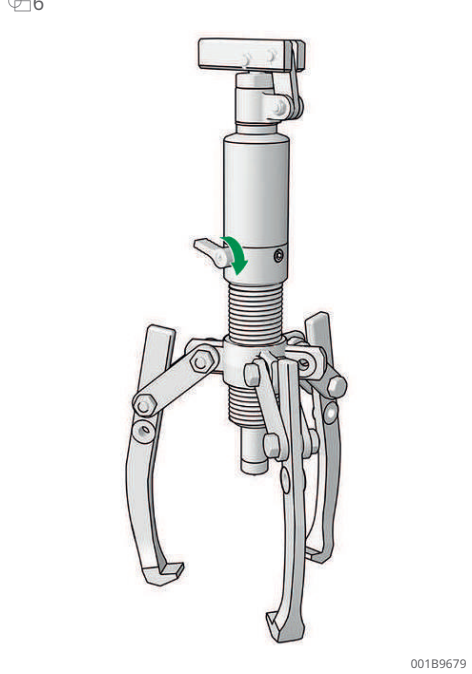
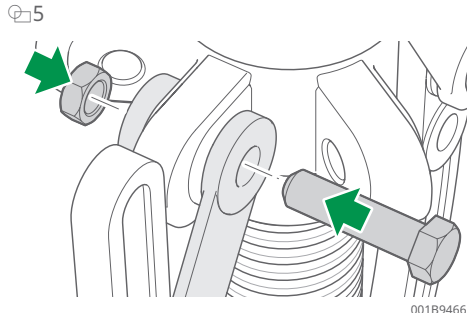
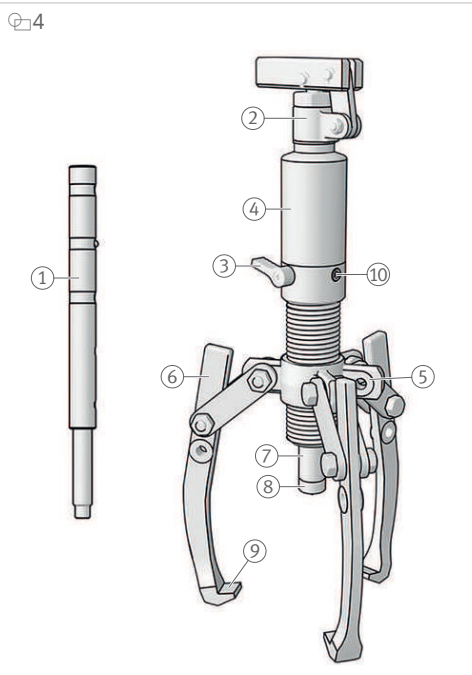
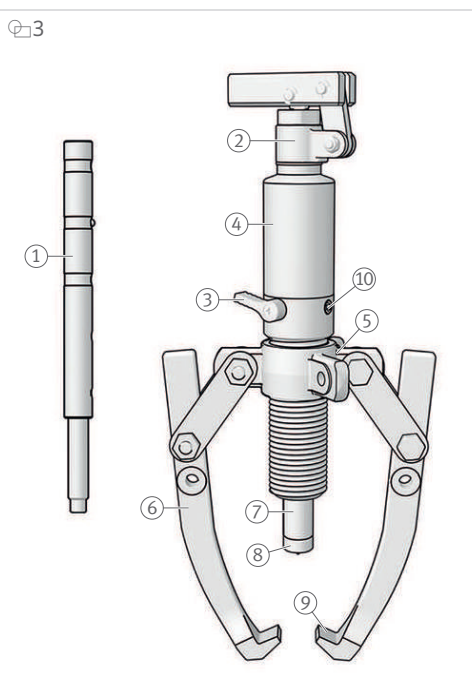
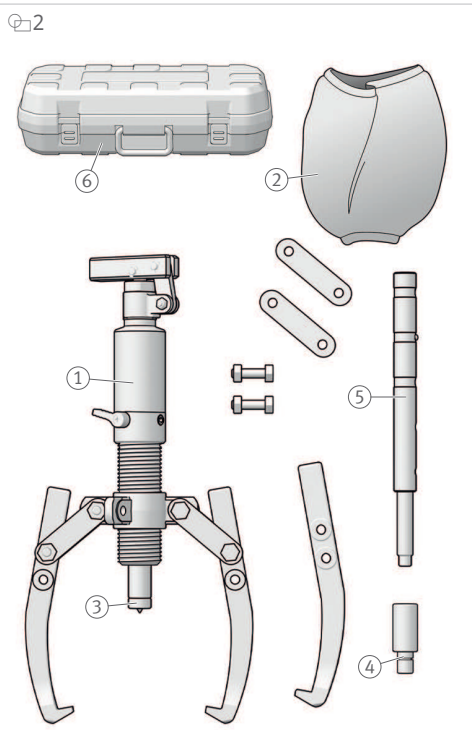




HP	F _p kN	m kg
HP-43	300504489-0000-10	35 4,5
HP-63	300504497-0000-10	55 6,3
HP-83	300504519-0000-10	75 6,5
HP-123	300504683-0000-10	110 8
HP-203	300504926-0000-10	190 22
HP-303	300504934-0000-10	290 32

HP	w mm	w max. mm	t max. mm	a mm	b mm	c mm	H mm
HP-43	~	255	185	11	22	6	60
HP-63	~	330	220	13	22	10	70
HP-83	~	350	230	11	25	10	85
HP-123	~	375	270	14	29	10	85
HP-203	~	520	360	20	33	27	111
HP-303	~	550	360	20	38	27	111

HP	HP-ADAPTER-D25/L48
HP-43	HP-ADAPTER-D25/L48
HP-63	HP-ADAPTER-D25/L48
HP-83	HP-ADAPTER-D25/L48
HP-123	HP-ADAPTER-D25/L48
HP-203	HP-ADAPTER-D40/L90
HP-303	HP-ADAPTER-D40/L90

HP	HP-NET-A
HP-43	HP-NET-A
HP-63	HP-NET-B
HP-83	HP-NET-B
HP-123	HP-NET-B
HP-203	HP-NET-C
HP-303	HP-NET-C

HP	HP-CASE-A
HP-43	HP-CASE-A
HP-63	HP-CASE-B
HP-83	HP-CASE-B
HP-123	HP-CASE-B
HP-203	HP-203 CASE
HP-303	HP-CASE-C

HP	HP-43.CYLINDER
HP-43	HP-43.CYLINDER
HP-63	HP-63.CYLINDER
HP-83	HP-83.CYLINDER
HP-123	HP-123.CYLINDER
HP-203	HP-203.CYLINDER
HP-303	HP-303.CYLINDER

HP	HP-SHAFT-PROTECTOR-D25
HP-43	HP-SHAFT-PROTECTOR-D25
HP-63	HP-SHAFT-PROTECTOR-D25
HP-83	HP-SHAFT-PROTECTOR-D25
HP-123	HP-SHAFT-PROTECTOR-D40
HP-203	HP-SHAFT-PROTECTOR-D40
HP-303	HP-SHAFT-PROTECTOR-D40

HP	HP-SHAFT-PROTECTOR
HP-43	HP-SHAFT-PROTECTOR
HP-63	HP-SHAFT-PROTECTOR
HP-83	HP-SHAFT-PROTECTOR
HP-123	HP-SHAFT-PROTECTOR
HP-203	HP-SHAFT-PROTECTOR
HP-303	HP-SHAFT-PROTECTOR

► 5 Tightening any loose screws

3. Retract and extend the piston several times.

5 Operation

✓ Puller is appropriate for the component's dimensions.

1. Fully retract the piston into the hydraulic cylinder.

2. Set the switching valve to [ADVANCE].

► 6 Setting the switching valve to [ADVANCE]

3. Attach the centring piece, if necessary, insert an adapter piece between the centring piece and piston.

► 7 Inserting adapter pieces

4. Position the arms on the component.

► 8 Positioning the arms on the component

5. If necessary, use a suitable TRI-SECTION-PLATE.

► 9 Using a TRI-SECTION-PLATE

6. Slowly turn the hydraulic cylinder clockwise until the centring piece comes into contact with the shaft end or cannot be extended further.

► 10 Turning the hydraulic cylinder until the centring piece comes into contact with the shaft end

7. If there is a gap between the centring piece and the shaft end, operate the pump lever to extend the piston until the centring piece touches the shaft end.

8. Extend the piston only up to the red marking. For tapered press fits, use a locknut.

► 11 Using a locknut for tapered press fits

10. Check that the arms are securely attached to the component at each of the 2 or 3 points.

11. Align the puller with the component's axis of symmetry.

► 12 Aligning the axes of symmetry

12. Attach the safety net or safety blanket.

► 13 Attaching the safety net or safety blanket

13. Mount the pump lever.

► 14 Mounting the pump lever

► 15 Removing the component

15. Remove the pump lever.

► 16 Removing the pump lever

16. Remove the safety net or safety blanket.

► 17 Removing the safety net or safety blanket

17. Set the switching valve to [RETURN]. The piston will retract into the hydraulic cylinder.

► 18 Setting the switching valve to [RETURN]

► 19 Removal process complete

6 Troubleshooting

► 11 Malfunction

Malfunction Possible cause Remedy

Pump does not build pressure Too little oil Refill with oil.

Worn valve or pump Send the puller to the supplier for examination.

Worn seal Hydraulic cylinder is defective. Dispose of the puller.

Misaligned piston Return the puller to the supplier for examination.

Piston does not retract Hydraulic cylinder seal is leaking

Oil leaking from the front of the hydraulic cylinder

7 Maintenance

✓ Clean the device with a cloth and a mild degreasing agent after each use.

7.1 Refilling with oil

✓ Use hydraulic oil PUMP-HYDOIL-LS758-1L.

1. Clamp the hydraulic cylinder gently and horizontally in a vice with the filler nozzle facing upwards.

2. Set the switching valve to [RETURN].

3. Fully retract the piston into the hydraulic cylinder.

4. Loosen the set screw in the filler nozzle using an Allen key.

5. Refill with oil up to the lower edge of the bore.

6. Screw the set screw into the filler nozzle and tighten it using an Allen key.

7. Retract and extend the piston several times.

8 Decommissioning

1. Clean the puller with a dry cloth.

2. Store the puller in a dry location.

9 Disposal

Disposal must be carried out in accordance with locally applicable regulations.

10 Technical data

► 11 Available models

► 20 Dimensions

► 2 Dimensions

F_p kN Extraction force

H mm Stroke

m kg Mass

t mm Grip depth

w mm Grip width

► 22 Declaration of Conformity

CE Declaration of Conformity

This declaration of conformity is based on the sole responsibility of the manufacturer.

Brand: RETEX

Product description: Hydraulic puller

Product name/type: HP-43 HP-63 HP-83 HP-123 HP-203 HP-303

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► 23 UKCA Declaration of Conformity

UKCA Declaration of Conformity

This declaration of conformity is based on the sole responsibility of the manufacturer.

Brand: RETEX

Product description: Hydraulic puller

Product name/type: HP-43 HP-63 HP-83 HP-123 HP-203 HP-303

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