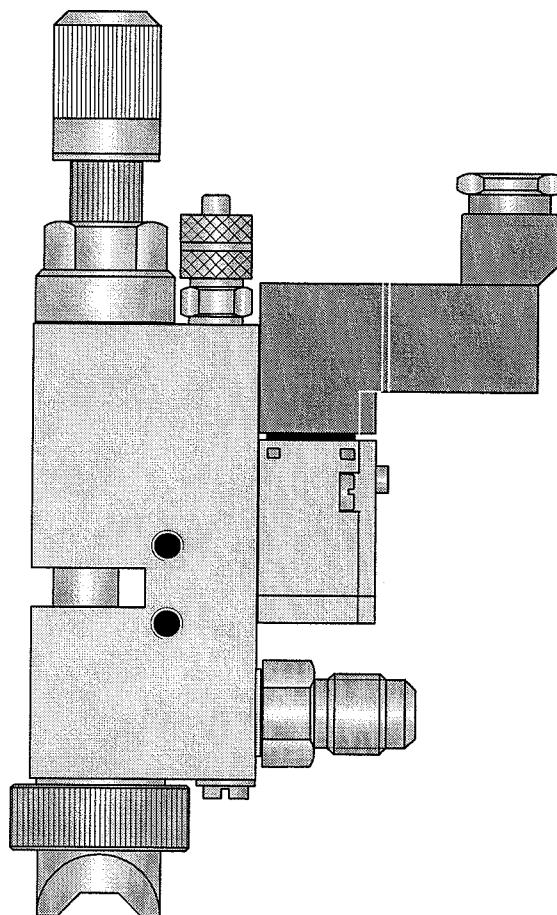




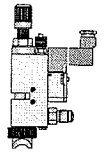
OPERATING INSTRUCTIONS

Cold glue Application Head

DynaCS22

5 Cold Glue Application Head DynaCS22

5.1 Product description



Scope

The DynaCS22 pneumatically-controlled cold glue gun may only be used for spraying materials such as adhesives, paints, greases, varnishes or similar materials. Acids, solvents and explosive materials must not be used with the DynaCS22.

Technical data

Application method	Spray application
Application pressure	max. 30bar
Viscosity	0-8000mPas
Cycle rate	15 to 17 cycles
Nozzle, needle and sealing head sizes (round and flat jet)	0.3 0.5 0.8 1.0 1.2 1.5 mm - further sizes available on request
Solenoid valve	5/2-way
Control voltage	24V/DC 110V 220V
Weight	480g
Noise emission	<70dB(A)

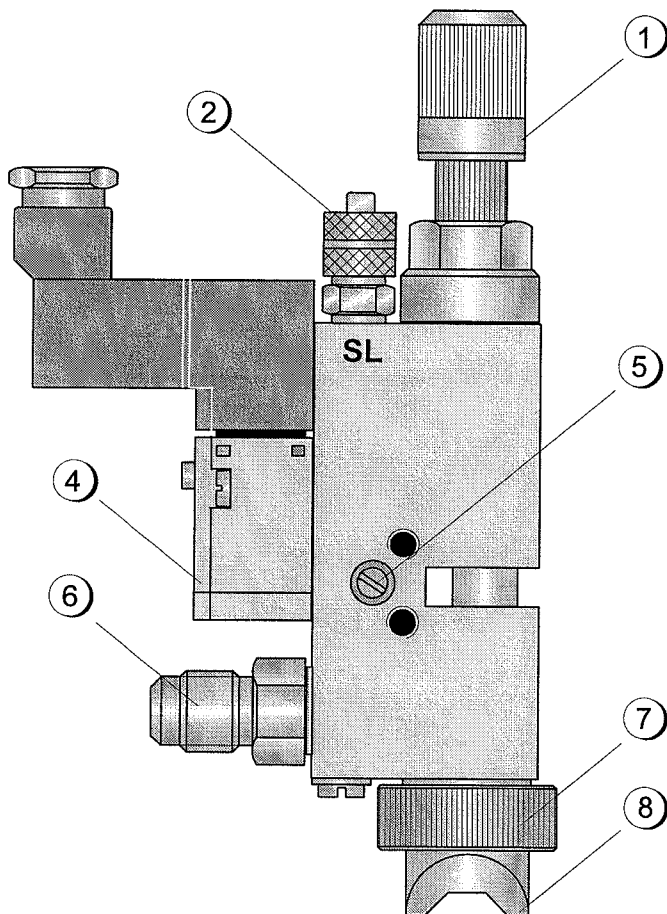
5 Cold Glue Application Head DynaCS22

5.1 Product description

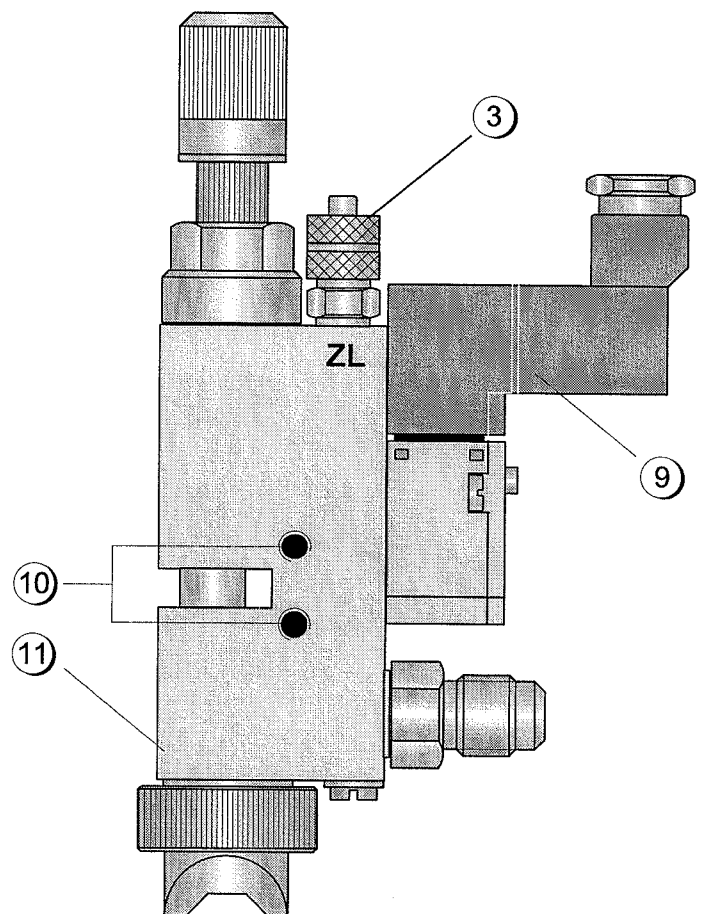


Group list

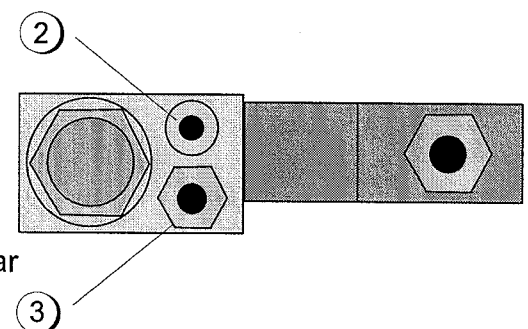
DynaCS22 Cold glue Application Head
left side



DynaCS22 Cold glue Application Head
right side



DynaCS22 Cold glue Application Head
Top view

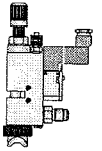


- 1 Needle stroke adjusting screw
- 2 Atomising air connection
- 3 Control air connection
- 4 5/2-way solenoid valve
- 5 Adjusting screw for afterblowing air
- 6 Material hose connection
(available are a low-pressure connection up to 6 bar
and a high-pressure connection for 70 bar)
- 7 Sleeve nut
- 8 Flat and round jet nozzle; flat jet (shown)
- 9 Connector for solenoid valve
- 10 Fixing thread M5
- 11 Housing

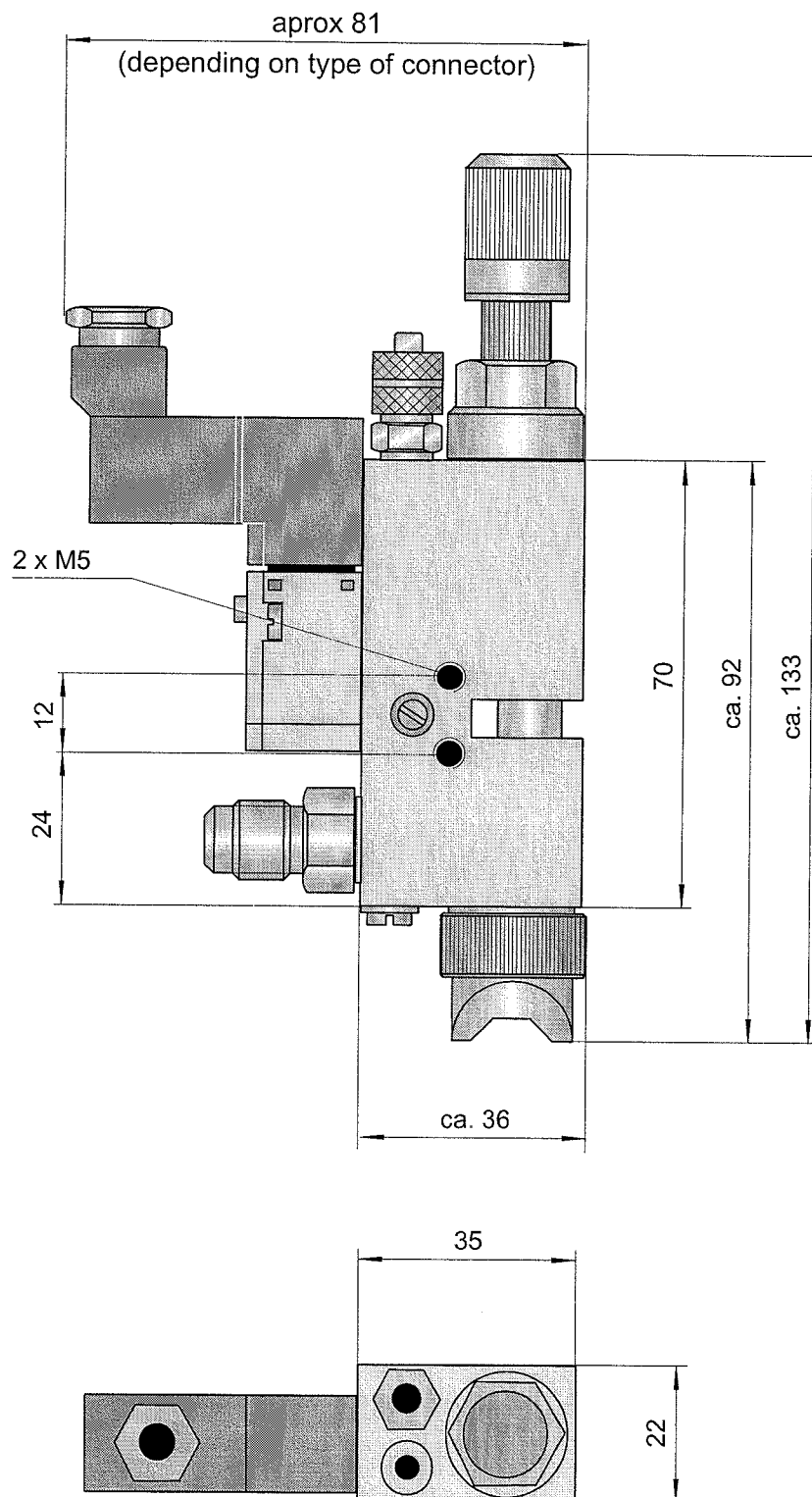
SL = Control air
ZL = Atomising air

5 Cold Glue Application Head Dyna CS22

5.1 Product description



Dimensioned drawing



All dimensions in mm

5 Cold Glue Application Head DynaCS22



5.2 Preparations for commissioning

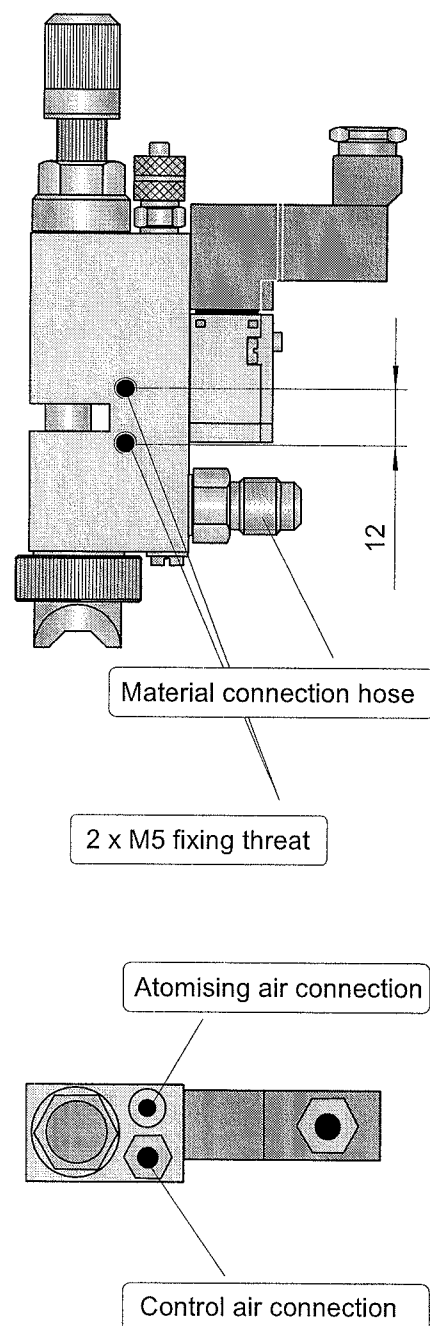
The application head may only be commissioned in conformance with ITW Dynatec specifications. Please observe our general notes on safety. Our service personnel are available to assist with commissioning if required. Please contact your ITW Dynatec representative to arrange an appointment. A list of addresses is provided on the last page in this chapter.

Unpacking application head

1. Open the packaging and remove the application head with accessories and delivery note.
2. Check the packaging for damage immediately on receipt. The forwarding agent must be notified in the event of any damage. Compare the packaging contents with the delivery note. Any discrepancies must be reported within fourteen days. Complaints received after this time can no longer be considered.

Application head assembly

1. Ensure that the application head is fixed as rigid and as permanent as possible. This prevents vibrations of the gun in intermittent operation. The application head must not be exposed to machine vibrations.
2. Fix the application head to the holder with two M5 screws.
3. Attach the atomising and control air connections to the application head.
4. Connect the material hose.
5. Connect the solenoid valve electrically.



5 Cold Glue Application Head DynaCS22

5.3 Commissioning



Adjustment of discharge rate

The adhesive discharge rate can be controlled by turning the knob at the needle adjusting screw. Turning clockwise reduces adhesive discharge, turning anti-clockwise increases adhesive discharge.



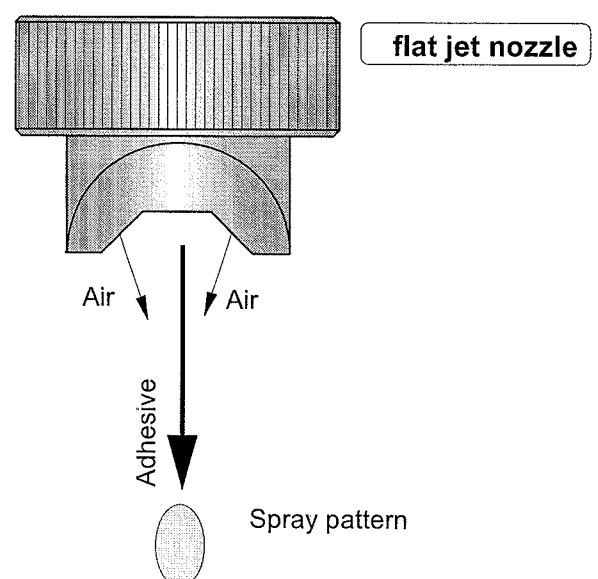
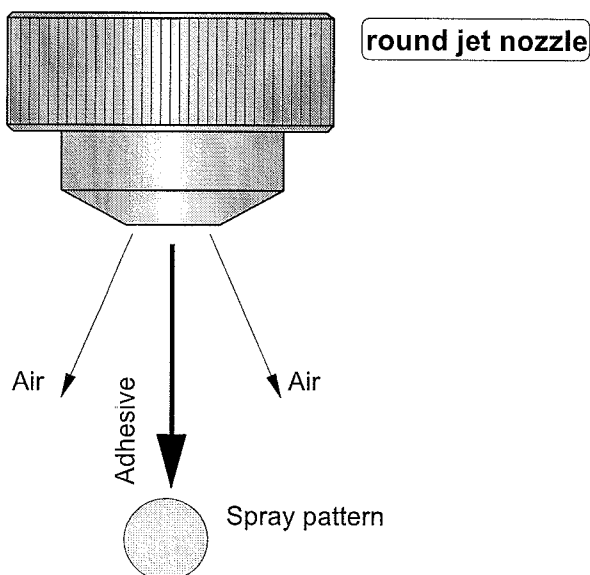
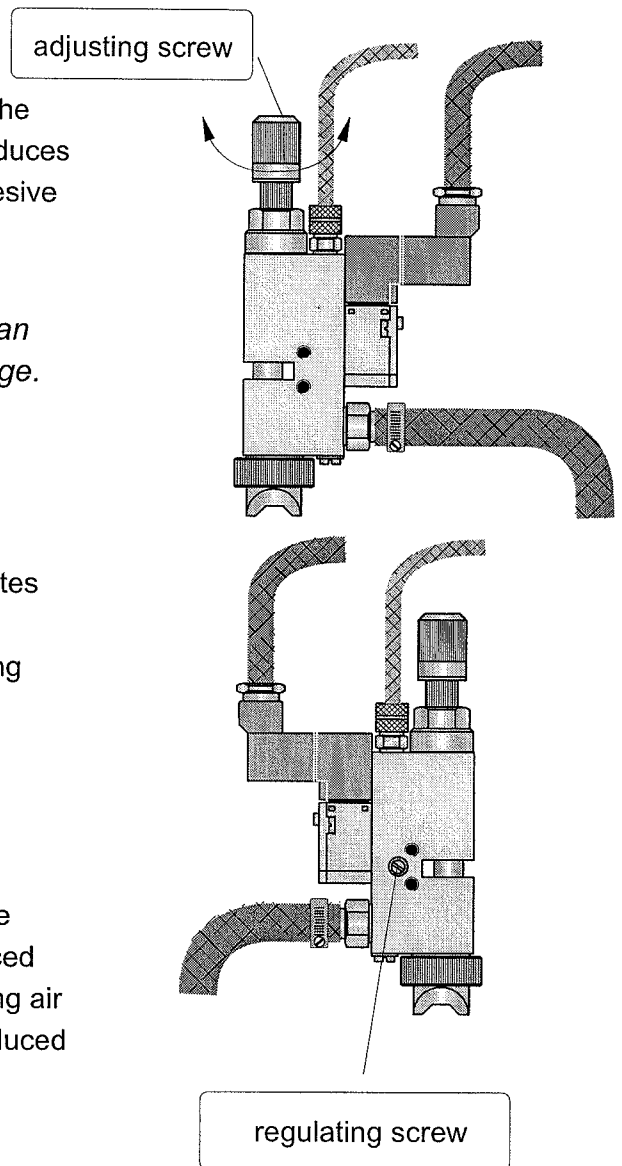
Note: The adhesive discharge rate can only be changed within a specific range.

Adjustment of afterblowing air

To keep the spray nozzle clean, the DynaCS22 gun operates with preblowing and afterblowing air. The afterblowing air duration can individually be set externally. The afterblowing duration can be increased by turning the regulating screw clockwise and reduced by turning anti-clockwise.

Using a round and flat jet nozzle

By using a round or flat jet nozzle, the spray pattern can be influenced. A wide, almost circular spray pattern is produced when using a round jet nozzle. On account of the atomising air directed towards the centre, a narrow spray pattern is produced when using a flat jet nozzle.



5 Application Head DynaCS22

5.4 Repair and maintenance

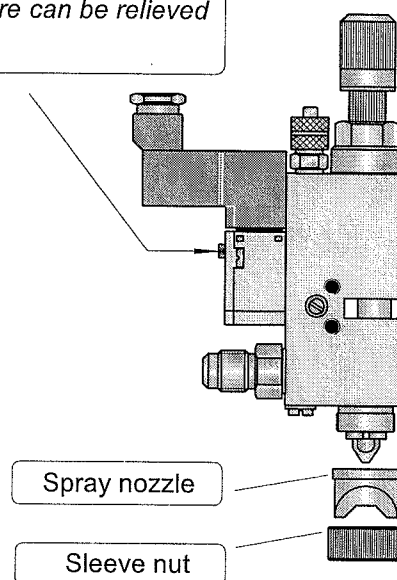


Note: All commissioning, maintenance and repair work may only be carried out by suitably trained and authorised specialists. For these activities, our service personnel can be provided if required. Please contact your ITW Dynatec representative to arrange an appointment. A list of addresses is provided on the last page in this chapter.

5.4.1 Disassembly and cleaning of spray nozzle

1. Render the system voltageless and pressureless.
2. Place a container under the gun nozzle opening and relieve the residual system pressure at the 5/2-way directional control valve.
3. Unscrew the sleeve nut from the gun and remove with the spray nozzle.
4. The disassembled parts can be cleaned with warm water and detergent.
5. Assembly takes place in reverse order.

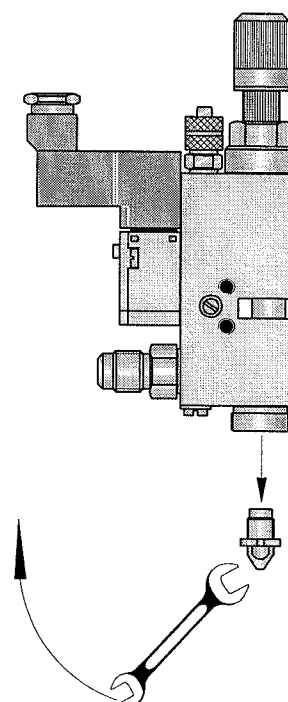
The residual system pressure can be relieved here



Item	Article number	Article
1	71.00803.211	Swirl cap, round jet, 0.3mm nozzle opening
1	71.00803.212	Swirl cap, round jet, 0.5mm nozzle opening
1	71.00803.213	Swirl cap, round jet, 0.8mm nozzle opening
1	71.00803.214	Swirl cap, round jet, 1.0mm nozzle opening
1	71.00803.215	Swirl cap, round jet, 1.2mm nozzle opening
1	71.00803.211	Swirl cap, round jet, 1.5mm nozzle opening
1	71.00803.201	Swirl cap, flat jet, 0.3mm nozzle opening
1	71.00803.202	Swirl cap, flat jet, 0.5mm nozzle opening
1	71.00803.203	Swirl cap, flat jet, 0.8mm nozzle opening
1	71.00803.204	Swirl cap, flat jet, 1.0mm nozzle opening
1	71.00803.205	Swirl cap, flat jet, 1.2mm nozzle opening
1	71.00803.206	Swirl cap, flat jet, 1.5mm nozzle opening

5.4.2 Replacement of screw-in nozzle

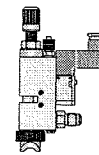
1. Render the system voltageless and pressureless.
2. Disassembly of spray nozzle, see 5.4.1
3. Unscrew the screw-in nozzle from the gun with a size 6 open-end wrench.



Item	Article number	Article
2	71.00803.221	Screw-in nozzle 0.3mm nozzle opening
2	71.00803.222	Screw-in nozzle 0.5mm nozzle opening
2	71.00803.223	Screw-in nozzle 0.8mm nozzle opening
2	71.00803.224	Screw-in nozzle 1.0mm nozzle opening
2	71.00803.225	Screw-in nozzle 1.2mm nozzle opening
2	71.00803.226	Screw-in nozzle 1.5mm nozzle opening

5 Cold Glue Application Head DynaCS22

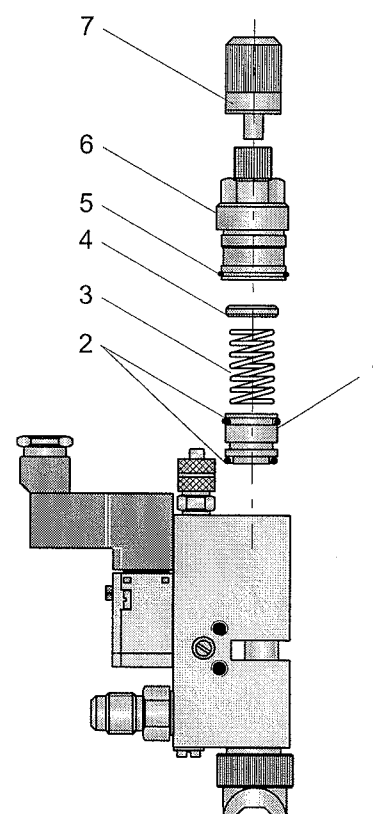
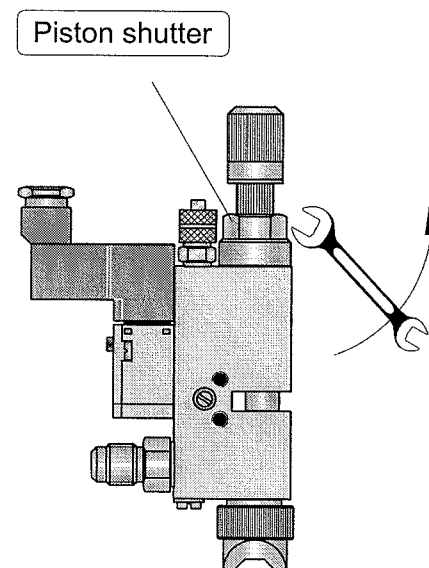
5.4 Repair and maintenance



5.4.3 Disassembly of piston shutter and seal replacement

Piston shutter

1. Render the system voltageless and pressureless.
2. Fix the CS22 cold glue gun vertically in a vice with protective jaws with the nozzle facing downwards.
3. Unscrew the piston shutter from the housing with a size 17 open-end wrench.
4. Fully screw the needle adjusting screw into the piston shutter.
5. Remove the piston from the piston shutter.
6. The O-rings of the piston shutter can now be removed and replaced.

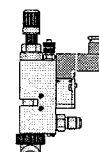


Item	Article number	Article
1	71.00803.252	Piston
2	06.01082-013	O-ring
3	71.01803.141	Spring
4	71.00803.251	Washer
5	71.00803.253	O-ring, needle shutter
6	71.00803.249	Needle head
7	71.00803.250	Needle shutter

7. Disassembly takes place in reverse order.

5 Cold Glue Application Head DynaCS22

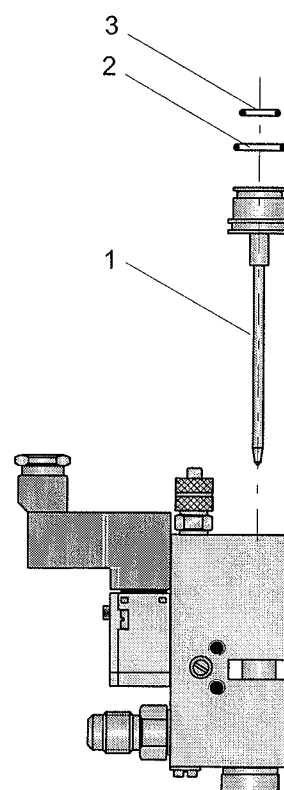
5.4 Repair and maintenance



5.4.4 Disassembly of material needle and sealing bush

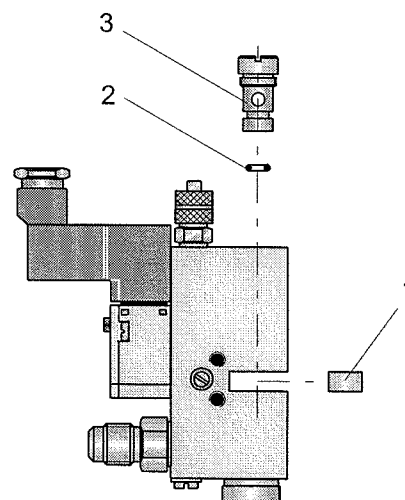
1. Render the system voltageless and pressureless.
2. Disassemble the swirl cap and screw-in nozzle. See chapters 5.4.1 and 5.4.2.
3. Unscrew the piston shutter from the housing with a size 17 open-end wrench. See chapter 5.4.3.
4. Push the material needle from the nozzle opening side upwards out of the housing.

Item	Article number	Article
1	71.00803.241	Material needle for screw-in nozzle 0,3mm
1	71.00803.242	Material needle for screw-in nozzle 0,5mm
1	71.00803.243	Material needle for screw-in nozzle 0,8mm
1	71.00803.244	Material needle for screw-in nozzle 1,0mm
1	71.00803.246	Material needle for screw-in nozzle 1,2mm
1	71.00803.247	Material needle for screw-in nozzle 1,5mm
2	06.01400.015	O-ring, piston
3	06.01082.013	O-ring, piston



5. After removal of the material needle, the sealing bush can be removed.
6. Insert a flat screwdriver (blade width 10mm) from above into the groove of the sealing bush and unscrew the sealing bush.
7. Remove the lateral plastic protective cover from the housing.

Item	Article number	Article
1	71.00803.236	Plastic protective cover
2	06.00290.006	O-ring
3	71.00803.232	Set of seals, complete
	71.00803.237	Screwed sealing plug
	71.00803.233	Shaped seal
	06.00447.008	O-ring, inner
	06.00607.010	O-ring, outer



8. Assembly takes place in reverse order.

5 Cold Glue Application Head DynaCS22

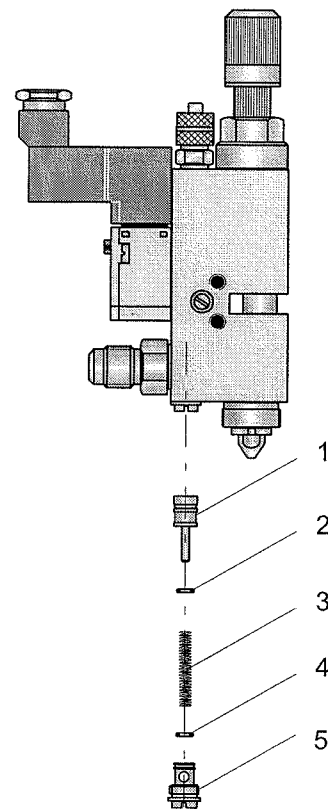
5.4 Repair and maintenance

5.4.5 Disassembly of piston

1. Render the system voltageless and pressure less.
2. Disassemble the spray nozzle. See chapter 5.4.1.
3. Unscrew the screwed sealing plug of the piston from the housing with a flat screwdriver (blade width 7mm).
4. Remove the compression spring
5. Remove the piston from the housing with a pointed plier.

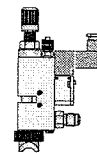
Item	Article number	Article
1	71.00803.266	Piston
2	71.00803.267	O-ring for piston
3	71.00803.268	Spring
4	71.00803.265	O-ring
5	71.00803.264	Screwed sealing plug

6. Assembly takes place in reverse order.

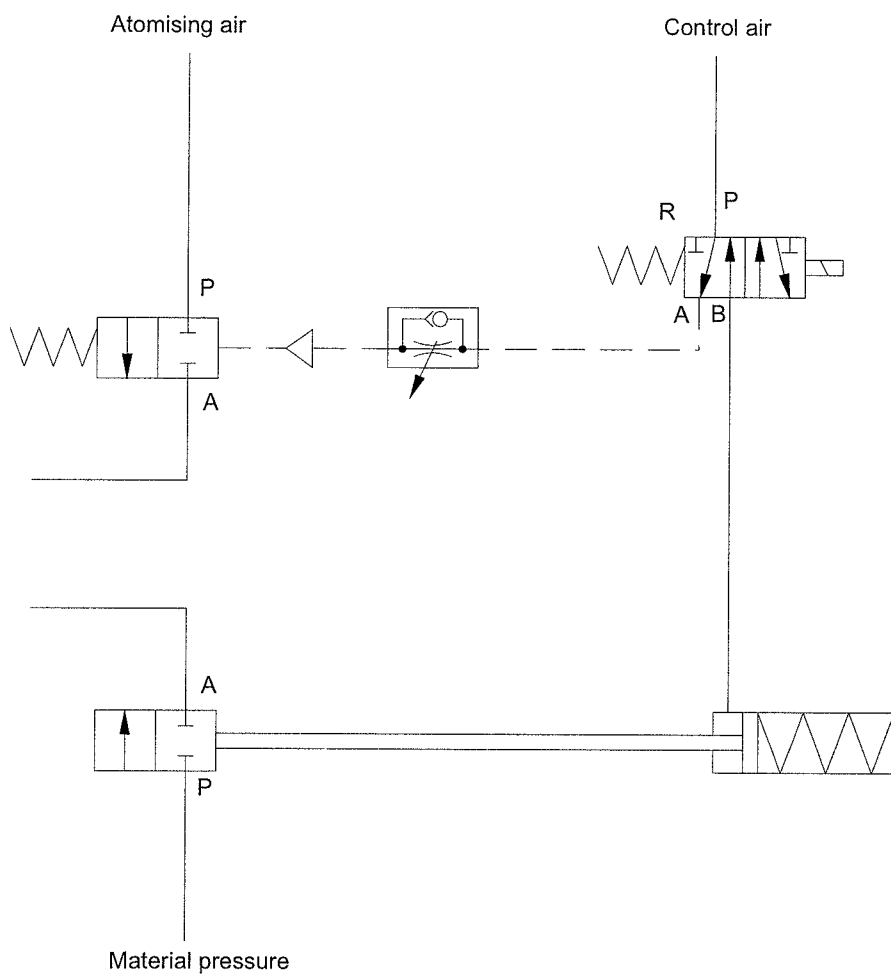


5 Cold Glue Application Head DynaCS22

5.7 Diagrams



Pneumatic diagram DynaCS22



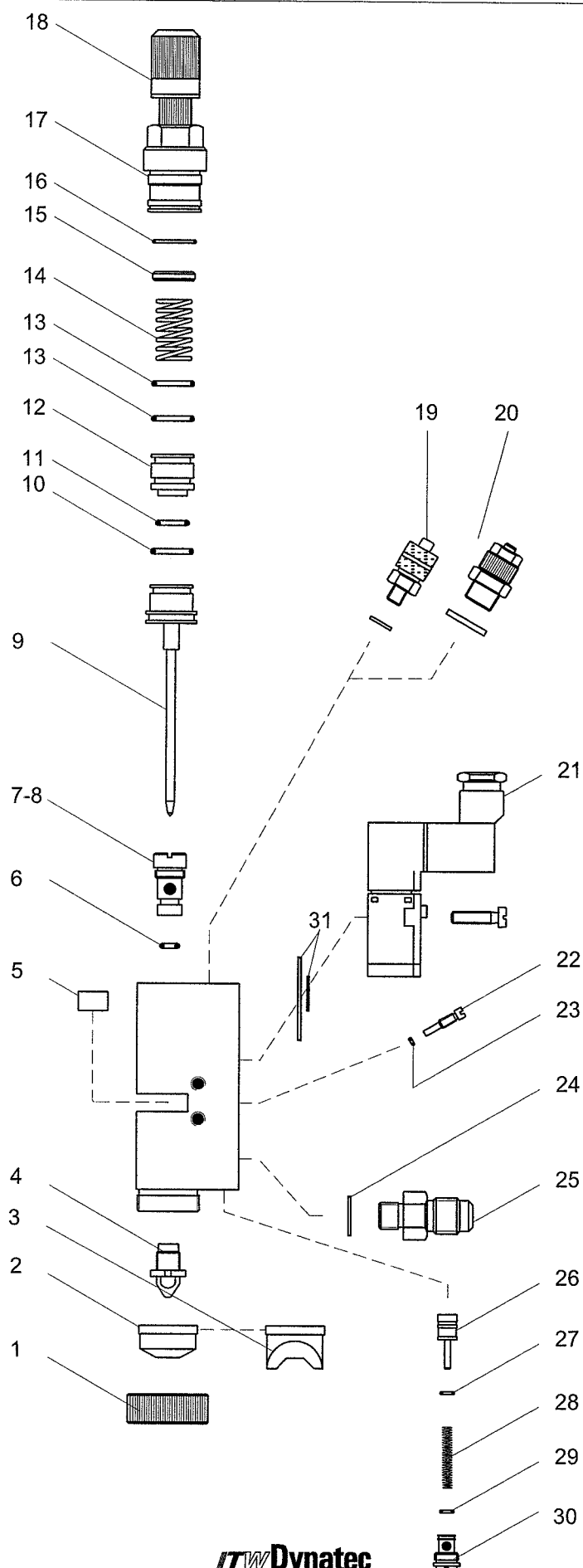
5 Cold Glue Application Head DynaCS22

5.9 Spare parts catalogue



Figure 1

DynaCS22



5 Cold Glue Application Head DynaCS22

5.9 Spare parts catalogue



Parts list to Figure 1

Item	Article number	Article	Quantity
1	71.00803.231	Screw collar ring	1
2	71.00803.211	Swirl cap, round jet, 0.3mm nozzle opening	1
2	71.00803.212	Swirl cap, round jet, 0.5mm nozzle opening	1
2	71.00803.213	Swirl cap, round jet, 0.8mm nozzle opening	1
2	71.00803.214	Swirl cap, round jet, 1.0mm nozzle opening	1
2	71.00803.215	Swirl cap, round jet, 1.2mm nozzle opening	1
2	71.00803.216	Swirl cap, round jet, 0.5mm nozzle opening	1
3	71.00803.201	Swirl cap, flat jet, 0.3mm nozzle opening	1
3	71.00803.202	Swirl cap, flat jet, 0.5mm nozzle opening	1
3	71.00803.203	Swirl cap, flat jet, 0.8mm nozzle opening	1
3	71.00803.204	Swirl cap, flat jet, 1.0mm nozzle opening	1
3	71.00803.205	Swirl cap, flat jet, 1.2mm nozzle opening	1
3	71.00803.206	Swirl cap, flat jet, 1.5mm nozzle opening	1
4	71.00803.221	Screw-in nozzle, 0.3mm nozzle opening	1
4	71.00803.222	Screw-in nozzle, 0.5mm nozzle opening	1
4	71.00803.223	Screw-in nozzle, 0.8mm nozzle opening	1
4	71.00803.224	Screw-in nozzle, 1.0mm nozzle opening	1
4	71.00803.225	Screw-in nozzle, 1.2mm nozzle opening	1
4	71.00803.226	Screw-in nozzle, 1.5mm nozzle opening	1
5	71.00803.236	Plastic protective cover	1
6	06.00290.006	O-ring	1
7	71.00803.237	Screwed sealing plug	1
8	71.00803.232	Set of seals, complete	1
	71.00803.233	Shaped seal	1
	06.00447.008	O-ring, inner	1
	06.00607.010	O-ring, outer	1
9	71.00803.241	Material needle for screw-in nozzle 0.3mm	1
9	71.00803.242	Material needle for screw-in nozzle 0.5mm	1
9	71.00803.243	Material needle for screw-in nozzle 0.8mm	1
9	71.00803.244	Material needle for screw-in nozzle 1.0mm	1
9	71.00803.246	Material needle for screw-in nozzle 1.2mm	1
9	71.00803.247	Material needle for screw-in nozzle 1.5mm	1
10	06.01400.015	O-ring, piston	1
11	06.01082.013	O-ring, piston	1
12	71.00803.252	Piston	1
13	06.01082.013	O-ring	2
14	71.00803.141	Spring	1
15	71.00803.251	Washer	1
16	71.00803.253	O-ring, needle shutter	1
17	71.00803.249	Needle head	1
18	71.00803.250	Needle shutter	1
19	07.00500.105	Control air connection M5-6/4	1
20	07.01418.301	Spray air connection G1/8-6/4	1

5 Cold Glue Application Head DynaCS22

5.9 Spare parts catalogue



Parts list to Figure 1

Item	Article number	Article	Quantity
21	07.95024.004	5/2-way solenoid valve 24V	1
21	07.95110.001	5/2-way solenoid valve 110V	1
21	07.95220.004	5/2-way solenoid valve 220V	1
22	71.00803.260	Regulating screw	1
23	71.00803.259	O-ring	1
24	02.11050.483	Copper washer	1
25	70.04000.122	High-pressure material hose connection G1/8-UNF 1/2 in VA, complete	1
25	30.00018.701	Low-pressure material hose connection in VA, complete	1
	02.11050.483	Copper washer for G1/8	1
	73.00500.127	Nipple G1/4-1/8 in VA	1
	07.41320.004	Hose nipple with sleeve nut G1/4 for material hose Di=9mm	1
	08.91500.101	Hose clip SB 10-16mm	1
26	71.00803.266	Piston	1
27	71.00803.267	O-ring for piston	1
28	71.00803.268	Spring	1
29	71.00803.265	O-ring	1
30	71.00803.264	Screwed sealing plug	1
31	07.95024.001	Seal	1

5 Kaltleim-Auftragskopf DynaCS22

Änderungsdienst

Dokumentation erstellt: 11/95

Dokumentation geändert:

Datum	Seite
8/96	5-2, 5-10
3/98	5-11, 5-12, 5-13

Fax Order

Company: _____

Customer No.: _____

Address: _____

Phone No.: _____

Fax-No.: _____

Person to contact: _____

Date: _____

TO

ITW Dynatec

Industriestraße 28

D-40822 Mettmann

Phon #49 / 2104 / 915-0

Fax #49 / 2104 / 915-111

Herewith we are ordering the following items according to your general terms of delivery:

POS	PART NUMBER	DESCRIPTION	AMMOUNT
1			
2			
3			
4			
5			
6			
7			
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11			
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- ☐ We ask for a visit of a service technician
☐ Please contact us by phone
☐ We ask for a visit of a sales representative