



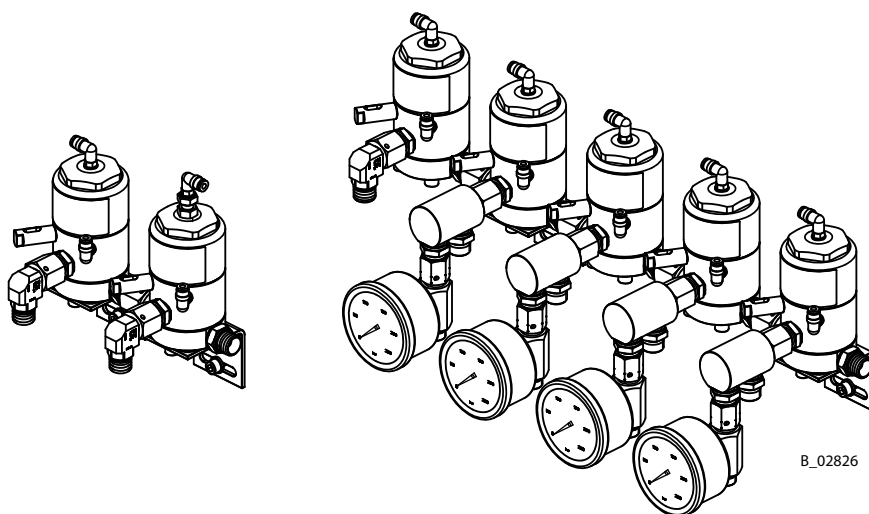
Translation of the Original Operating Manual

For professional use.
Always follow the information in this manual,
particularly the safety instructions and the warning
instructions. Store the manual in a safe place.

Version 07/2018

Paint and dosing valves PV 530 / DV 530

53 MPa; 530 bar; 7687 psi



B_02826

CE Ex II 2G Ex h IIB T6 Gb X

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1 ABOUT THESE INSTRUCTIONS

1.1 PREFACE

The operating manual contains information about safely operating, maintaining, cleaning and repairing the device.

The operating manual is part of the device and must be available to the operating and service personnel.

The device may only be operated by trained personnel and in compliance with this operating manual.

Operating and service personnel should be instructed according to the safety instructions. This equipment can be dangerous if it is not operated according to the instructions in this operating manual.

1.2 WARNINGS, NOTICES AND SYMBOLS IN THESE INSTRUCTIONS

Warning instructions in this manual highlight particular dangers to users and to the device and state measures for avoiding the hazard. These warning instructions fall into the following categories:

 **DANGER** Immediate risk of danger.
Non-observance will result in death or serious injury.

 **WARNING** Potential risk.
Non-observance may result in death or serious injury.

 **CAUTION** Potentially hazardous situation.
Non-observance may result in minor injury.

 **NOTICE** Potentially hazardous situation.
Non-observance may result in damage to property.

Notice Provides information about particular characteristics and how to proceed.

Explanation of warning notice:

LEVEL OF DANGER

This notice warns you of a hazard!

Possible consequences of not observing the warning notice.

→ The measures for preventing the hazard and its consequences.



1.3 LANGUAGES

The operating manual is available in the following languages:

Original operating manual

Language	Order no.
German	2372892

Translation of the original operating manual

Language	Order no.	Language	Order no.
English	2372893	Italian	2372897
French	2372895	Spanish	2372900

Additional languages on request or at: www.wagner-group.com

1.3.1 ABBREVIATIONS

Stk	Number of pieces	PV	Paint valve
Pos	Position	DV	Dosing valve
K	Marking in the spare parts lists	SSt	Stainless steel
Order no.	Order number	TC	Carbide
SW	Wrench size	FEP	Fluorinated ethylene propylene

1.4 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL

Cleaning/Flushing	
Cleaning	Manual cleaning of devices and device parts with cleaning agent.
Flushing	Internal flushing of paint-wetted parts with flushing agent.
Personnel qualifications	
Trained person	Is instructed in the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrically trained person	Is instructed by an electrician about the tasks assigned to him/her, the potential risks associated with improper behavior as well as the necessary protective devices and measures.
Electrician	Can assess the work assigned to him/her and detect possible hazards based on his/her technical training, knowledge and experience in relevant provisions.
Skilled person in accordance with TRBS 1203 (2010/Revision 2012)	A person, who, based on his/her technical training, experience and recent vocational experience, has sufficient technical knowledge in the areas of explosion protection, protection from pressure hazards and electric hazards (if applicable) and is familiar with the relevant and generally accepted rules of technology so that he/she can inspect and assess the status of devices and coating systems based on workplace safety.

2 CORRECT USE

2.1 DEVICE TYPE

- a) PV 530 Paint valve
- b) DV 530 Dosing valve

2.2 TYPE OF USE

The pneumatically operated valves are suitable for switching and dosing liquid products, in particular coating or process products for surface technology and similar products. The paint valve (PV) is used to switch coating products (paints) and flushing agents. When working with multi-component products, a dosing valve (DV) must be used for the dosing of hardener product. Dosing valves have an adjustable stroke limitation.

The valves can be used individually or screwed together in rows to form valve blocks. The flow of product can take place in both directions (mixing or splitter valve).

TC: Valves with the type designation "TC" may not be used for processing products that are corrosive to tungsten carbide binders.

WAGNER explicitly prohibits any other use!

The device may only be operated under the following conditions:

- Only operate device in a room with manual or mechanical ventilation.
- Use the device only to work with the products recommended by WAGNER.
- Do not deactivate safety fixtures.
- Use only WAGNER original spare parts and accessories.
- The operating personnel must be trained on the basis of this operating manual.

- Follow the instructions in the operating manual.

2.3 FOR USE IN POTENTIALLY EXPLOSIVE AREAS

The valves can be used in areas subject to explosion hazards. (See Explosion Protection Identification Chapter [3](#)).



2.4 PROCESSIBLE WORKING MATERIALS

All coating or surface technology process products as well as similar products. Please contact your local WAGNER dealer and the lacquer manufacturer in the event of application problems.

2.5 MISUSE

Misuse can lead to physical injury and/or property damage!
Special attention must be paid that:

- No dry coating products, e.g., powder are processed.
- no food, medicine or cosmetics are processed.

3 IDENTIFICATION

3.1 EXPLOSION PROTECTION IDENTIFICATION

As defined in the Directive 2014/34/EU the valves are suitable for use in areas subject to explosion hazards.

Device type: Paint valves PV 530
Dosing valves DV 530

Manufacturer: Wagner International AG
9450 Altstätten
Switzerland



CE  II 2G Ex h IIB T6 Gb X

CE	CE mark (European Communities)	h	Ignition protection for non-electrical devices
	Explosion-proof equipment	IIB	Device class (Gas) IIB
II	Device class II (not mining)	T6	Temperature class T6: maximum surface temperature 85 °C; 185 °F
2	Category 2 (zone 1)	Gb	Device protection level (EPL), suitable for use in Zone 1
G	Ex-atmosphere gas	X	There are special instructions to ensure safe operation. See the following Chapter "Identification X".
Ex	Device corresponds to ignition protection type	--	--

3.1.1 IDENTIFICATION X

Ignition temperature of the coating product

→ Ensure that the ignition temperature of the coating product is above the maximum surface temperature (85 °C; 185 °F).

Ambient temperature

→ Permissible ambient temperature: +5 °C to +40 °C; +41 °F to +104 °F.

Cleaning

If there are deposits on the surfaces, the device may form electrostatic charges. Flames or sparks can form during discharge.

→ Remove deposits from the surfaces to maintain conductivity.

3.2 USE IN AREAS SUBJECT TO EXPLOSION HAZARDS**Safe Handling of WAGNER Spray Devices**

Mechanical sparks can form if the device comes into contact with metal.

In an explosive atmosphere:

- Do not knock or push the device or components and tools against steel or rusty iron.
- Do not drop the device or components and tools.

**National regulations**

- Ensure that the national explosion prevention rules and regulations are observed when setting up the device.

3.3 TYPE PLATES**Paint valves**

1	WAGNER Made in Switzerland	Wagner International AG, CH-9450 Altstätten CE Ex II 2 G Ex h IIB T6 Gb X
2	Gerätetyp / Type:	Farbventil PV 530 / Paint valve PV 530
3	Materialdruck / Fluid pressure	0.1–53 MPa 15–7687 psi
4	Temperatur Material / Fluid temperature	+5 / +80 °C
5	Luftdruckversorgung / Air pressure supply	0.5–0.6 MPa 73–87 psi
6	Temperatur Umgebung / Ambient temp.	+5 / +40 °C
7	Baujahr - Serie Nr / Year of manuf. - Serial No	
8	Vor Gebrauch Betriebsanleitung beachten / Check manual before use!	

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Dosing valves

1	WAGNER Made in Switzerland	Wagner International AG, CH-9450 Altstätten CE Ex II 2 G Ex h IIB T6 Gb X
2	Gerätetyp / Type:	Dosierventil DV 530 / Dosing valve DV 530
3	Materialdruck / Fluid pressure	0.1–53 MPa 15–7687 psi
4	Temperatur Material / Fluid temperature	+5 / +80 °C
5	Luftdruckversorgung / Air pressure supply	0.5–0.6 MPa 73–87 psi
6	Temperatur Umgebung / Ambient temp.	+5 / +40 °C
7	Baujahr - Serie Nr / Year of manuf. - Serial No	
8	Vor Gebrauch Betriebsanleitung beachten / Check manual before use!	

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Pos	Designation
1	Manufacturer/explosion protection identification
2	Device Type
3	Product pressure
4	Product temperature

Pos	Designation
5	Air pressure supply
6	Ambient temperature
7	Year of manufacture – serial number
8	Read operating manual before use!

4 BASIC SAFETY INSTRUCTIONS

4.1 SAFETY INSTRUCTIONS FOR THE OPERATOR

- Keep this operating manual at hand near the device at all times.
- Always follow local regulations concerning occupational safety and accident prevention.



4.1.1 ELECTRICAL DEVICES AND EQUIPMENT

Electric shock hazard!

Danger to life from electric shock

- Prepare device in accordance with the local safety requirements with regard to the operating mode and ambient influences.
- May only be maintained by skilled electricians or under their supervision. With open housings, the mains voltage poses a danger.
- Operate device in accordance with the safety regulations and electrotechnical regulations.
- Must be repaired immediately in the event of problems.
- Decommission if it poses a hazard or is damaged.
- Must be de-energized before work is commenced. Inform personnel about planned work. Observe electrical safety regulations.
- Ground all devices to a common grounding point.
- Only operate the device with a properly installed socket with a protective ground wire connection.
- Keep liquids away from electrical devices.



4.1.2 A SAFE WORK ENVIRONMENT

Hazard due to dangerous fluids or vapors!

Severe or fatal injuries due to explosion hazard or inhalation, swallowing or contact with the skin or eyes.

- Ensure that the floor in the working area is static dissipative in accordance with EN 61340-4-1 (resistance must not exceed 100 MΩ).
- Paint mist extraction systems/ventilation systems must be fitted on site according to local regulations.
- Make sure that the ground connection and potential equalization of all system parts are reliable and continuous and can withstand the expected stress (e.g. mechanical stress, corrosion).
- Ensure that product hoses / air hoses adapted to the working pressure are used.



- Ensure that personal protective equipment (see Chapter [4.2.1](#)) is available and is used.
- Ensure that all persons within the working area wear static dissipative shoes. Footwear must comply with EN 20344. The measured insulation resistance must not exceed 100 MΩ.
- Ensure that during spraying, persons wear electrically conductive gloves. The grounding takes place via the spray gun handle or the trigger.
- Protective clothing, including gloves, must comply with EN 1149-5. The measured insulation resistance must not exceed 100 MΩ.
- Ensure that there are no ignition sources such as naked flames, sparks, glowing wires, or hot surfaces in the vicinity. No smoking.
- Ensure that the pipe joints, hoses, equipment parts and connections are permanently, technically leak-proof:
 - Periodic preventative maintenance and service (replacing hoses, checking tightness strength of connections, etc.)
 - Regular monitoring of leaks and defects via visual inspection and odor testing, e.g., daily before commissioning, at the end of work or weekly.
- Ensure that maintenance and safety checks are performed regularly.
- In the event of defects, immediately bring the device or system to a stop and arrange to have repairs carried out immediately.



4.1.3 PERSONNEL QUALIFICATIONS

Hazard due to incorrect use of device!

Risk of death due to untrained personnel.

- Ensure that the operating personnel has been instructed by the operator in accordance with the operating manual and the operating instructions. The device must only be operated, maintained and repaired by trained personnel. Refer to the operating instructions for information about the required personnel qualifications.

4.2 SAFETY INSTRUCTIONS FOR THE PERSONNEL

- Always follow the information in this manual, particularly the safety instructions and the warning instructions.
- Always follow local regulations concerning occupational safety and accident prevention.
- In electrostatics applications: Persons belonging to a risk group according to EMF guideline 2013/35/EU (e.g., carriers of active implants), must not enter the high-voltage area.



4.2.1 PERSONAL SAFETY EQUIPMENT**Hazard due to dangerous fluids or vapors!**

Serious or fatal injuries due to inhalation, swallowing or contact with the skin or eyes.

- When preparing or working with lacquer and when cleaning the device, follow the working instructions of the manufacturer of the lacquers, solvents, and cleaning agents being used.
- Take the specified protective measures. In particular, wear safety goggles, protective clothing and gloves, as well as hand protection cream if necessary.
- Use a mask or breathing apparatus if necessary.
- For sufficient health and environmental safety: Operate the device in a spray booth or on a spraying wall with the ventilation (extraction) switched on.
- Wear suitable protective clothing when working with hot products.

**4.2.2 SAFE HANDLING OF WAGNER SPRAY DEVICES****Hazard due to injection of lacquer or flushing agent into the skin!**

The spray jet is under pressure and can cause dangerous injuries. Avoid injection of lacquer or flushing agents:

- Never point the spray gun at people.
- Never reach into the spray jet.
- Ensure that the working pressure does not exceed the maximum value shown on the type plate.
- Before any work on the device, in the event of work interruptions and malfunctions:
 - Switch off the energy/compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun against actuation.
 - Disconnect the control unit from the mains.
 - In the event of functional faults: remedy the fault as described in the "Troubleshooting" chapter.
- If needed, the liquid ejection devices must be checked by experts (e.g., WAGNER service technician) at least every 12 months for their work-safe condition in accordance with DGUV regulation 100-500 Chapter 2.29 and Chapter 2.36.
 - For shut down devices, the examination can be suspended until the next start-up.

**In the event of skin injuries caused by lacquer or flushing agents:**

- Note the lacquer or flushing agent that you have been using.
- Consult a doctor immediately.

Danger due to recoil forces!

Actuating the trigger can causes strong recoil forces. Thereby, the user can lose his balance and injure himself when falling.

Avoid risk of injury from recoil forces:

- Ensure that you have firm footing when operating the spray gun.



4.2.3 GROUNDING THE UNIT**Hazard due to electrostatic charge!**

Explosion hazard and damage to the device.

Friction, flowing liquids and air or electrostatic coating processes create charges. Flames or sparks can form during discharge.

Correct grounding of the entire spraying system prevents electrostatic charges.

- Ensure that all devices and tanks are grounded before each spraying process.
- Make sure that the ground and potential equalization of all system parts are performed reliably and continuously and can withstand the expected stress (e.g., mechanical stress, corrosion).
- Ground the work pieces to be coated.
- Ensure that all persons inside the working area are grounded, e.g., that they are wearing static dissipative shoes.
- Wear static dissipative gloves when spraying. The grounding takes place via the spray gun handle or the trigger.

**4.2.4 PRODUCT HOSES****Hazard due to bursting of product hose!**

The product hose is under pressure and may cause dangerous injuries.

- Ensure that the hose material is chemically resistant to the sprayed products and the flushing agents used.
- Ensure that the product hoses and the fittings are suitable for the pressure generated.
- Ensure that the following information can be seen on the high-pressure hose:
 - manufacturer,
 - permissible operating pressure,
 - date of manufacture.
- Make sure that the hoses are laid only in suitable places. Hoses should not be laid in the following places under any circumstances:
 - in high-traffic areas,
 - on sharp edges,
 - on moving parts or
 - on hot surfaces.
- Ensure that the hoses are never run over by vehicles (e.g., fork lifts), or that the hoses are never put under pressure from the outside in any other way.
- Ensure that the hoses are never kinked. Observe maximum bending radii.
- Ensure that no work is ever performed with a damaged hose.
- Make sure that the hoses are never used to pull or move the equipment.
- The electrical resistance of the product hose, measured at both valves, must be less than 1 MΩ.
- Suction hoses may not be subjected to pressure.



Several liquids have a high expansion coefficient. In some cases, their volume can rise with consequent damage to pipes, fittings, etc. and cause fluid leakage.

4.2.5 CLEANING AND FLUSHING**Hazard due to cleaning and flushing!**

Explosion hazard and damage to the device.

- Preference should be given to non-ignitable cleaning and flushing agents.
- When carrying out cleaning work with flammable cleaning agents, make sure that all equipment and resources (e.g., collection tank, funnel, transport cart) are conductive or static dissipative and grounded.
- Observe the specifications of the lacquer manufacturer.
- Ensure that the flash point of the cleaning agent is at least 15 K above the ambient temperature or that cleaning is undertaken at a cleaning station with technical ventilation.
- Never use chloride or halogenated solvents (such as trichloroethane and methylene chloride) with units containing aluminium or galvanized and zinc-plated parts. They may react chemically thus producing an explosion danger.
- Take measures for workplace safety (see Chapter [4.1.2](#)).
- When commissioning or emptying the device, please note that:
 - depending upon the coating product used,
 - depending on the flushing agent (solvent) used.
 an explosive mixture may temporarily exist inside the lines and items of equipment.
- Only electrically conductive tanks may be used for cleaning and flushing agents.
- The tanks must be grounded.



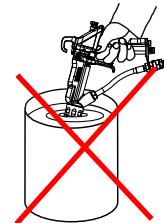
An explosive gas/air mixture forms in closed tanks.

- Never spray into a closed tank when using solvents for flushing.

External Cleaning

When cleaning the exterior of the device or its parts, also observe the following:

- Relieve the pressure from the device.
- De-energize the device electrically.
- Disconnect the pneumatic supply line.
- Use only moistened cloths and brushes. Never use abrasive agents or hard objects and never spray cleaning agents with a gun. Cleaning the device must not damage it in any way.
- Ensure that no electric component is cleaned with or immersed into solvent.



4.2.6 TOUCHING HOT SURFACES

Hazard due to hot surfaces because of hot coating products!

Risk of burn injuries

- Only touch hot surfaces if you are wearing heat-insulating, static dissipative protective gloves.
- When operating the device with a coating product with a temperature of > 43 °C; 109 °F:
 - Identify the device with a warning label, "Warning – Hot surface".
- Instruction label: Order no. 9998910
- Protection label: Order no. 9998911
- Note:** Order the two stickers together



4.2.7 MAINTENANCE AND REPAIR

Hazard due to improper maintenance and repair!

Danger to life and equipment damage.

- Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- Use only WAGNER original spare parts and accessories.
- Do not change or modify the device; if change is necessary, contact WAGNER.
- Only repair and replace parts that are listed in Chapter 12 and Chapter 13 that are assigned to the unit.
- Do not use any defective components.
- Before all work on the device and in the event of work interruptions:
 - Switch off the energy and compressed air supply.
 - Relieve the pressure from the spray gun and device.
 - Secure the spray gun against actuation.
- Observe the operating and service manual for all work.

4.2.8 PROTECTIVE AND MONITORING EQUIPMENT

Hazard due to removal of protective and monitoring equipment!

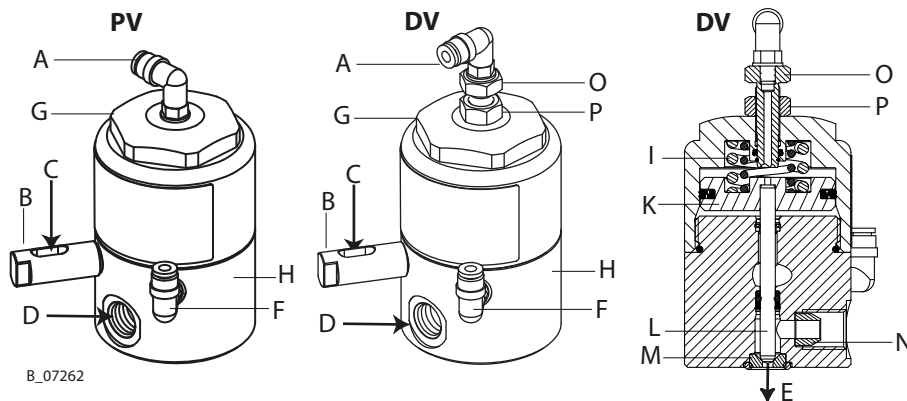
Danger to life and equipment damage.

- Protective and monitoring equipment must not be removed, modified or rendered unusable.
- Regularly check for perfect functioning.
- If defects are detected on protective and monitoring equipment, the system must not be operated until these defects are remedied.

5 DESCRIPTION

5.1 COMPONENTS

Paint valves PV 530 and dosing valves DV 530 are clearly designed. They can be used with a few, easy to understand operating steps.



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Pos	Designation
A	Control air inlet, above
B	Level indication
C	Filling opening
D	Product connection G1/4"
E	Product outlet
F	Control air inlet, below
G	Valve cover
H	Valve housing

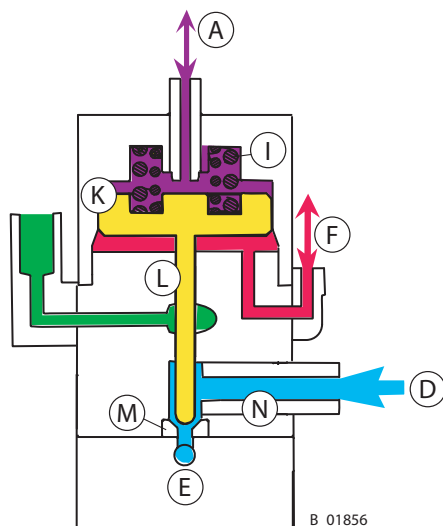
Pos	Designation
I	Pressure spring
K	Piston
L	Valve needle
M	Valve seat
N	Filler part
O	Adjusting screw (only DV)
P	Locknut (only DV)
--	--

Adjustment screw

With dosing valves (DV), the piston stroke can be set with the adjustment screw (O):

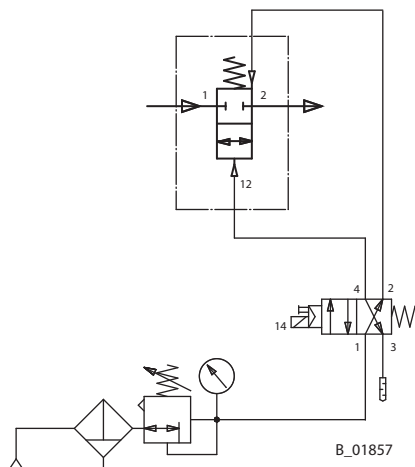
1. Loosen the lock nut (P).
2. → Screw in the adjustment screw (O): less product flow
→ Unscrew the adjustment screw (O): more product flow
3. Secure setting with lock nut (P).

5.2 MODE OF OPERATION



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Functional diagram



B_01857

The paint and dosing valves are pneumatically controlled. When the control air is guided from the connection (F) under the piston (K), the valve needle (L) opens against the force of the pressure springs (I). The product flows from the inlet (D) into the product chamber (N) and from there through the valve seat (M) to the outlet (E).

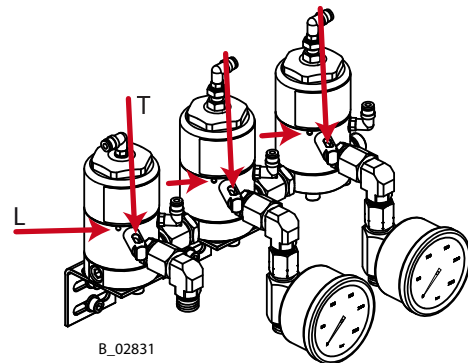
When the control air is guided from the connection (A) via the piston, the valve needle closes. The control air has to be switched alternately. In the product connection there is a filler part (N) in order to fill the clearance volume.

To use the paint and dosing valves for their intended purpose, they require a base plate for the product outlet (E) (see components in Chapter [5.4.2](#)).

5.3 PROTECTIVE AND MONITORING EQUIPMENT

The following functions serve to monitor airtightness and product leaks.

- leakage hole (L)
- separating agent filling opening (T)



5.4 INCLUDED ITEMS

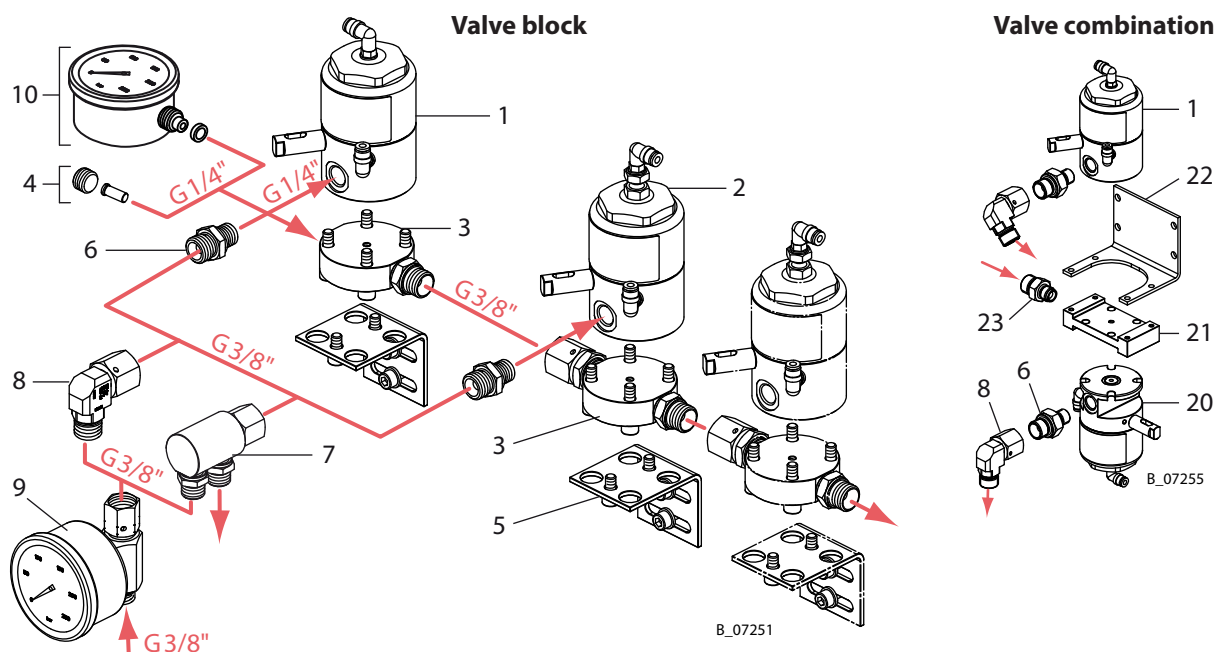
5.4.1 PV 530 / DV 530

Order no.	Valve type	Designation
2357411	Paint valve	PV 530-DN4-SSt
2357409	Paint valve	PV 530-DN4-TC
2357465	Dosing valve	DV 530-DN4-SSt
2357464	Dosing valve	DV 530-DN4-TC
2360426	Paint valve below for valve combination	PV 530-DN4-TC [valve below]

The scope of delivery of a valve includes:

Order no.	Designation
377405	Filler part without 60° beveling to use the valve as a spare part in existing systems with M16 ISO threads (see Chapter 5.4.3).
2374681	EU Declaration of Conformity
2372892	Operating manual, German
See chapter 1.3	Operating manual in the local language

The delivery note shows the exact scope of delivery.

5.4.2 OVERVIEW OF VALVES WITH SUPPLEMENTARY COMPONENTS G3/8"

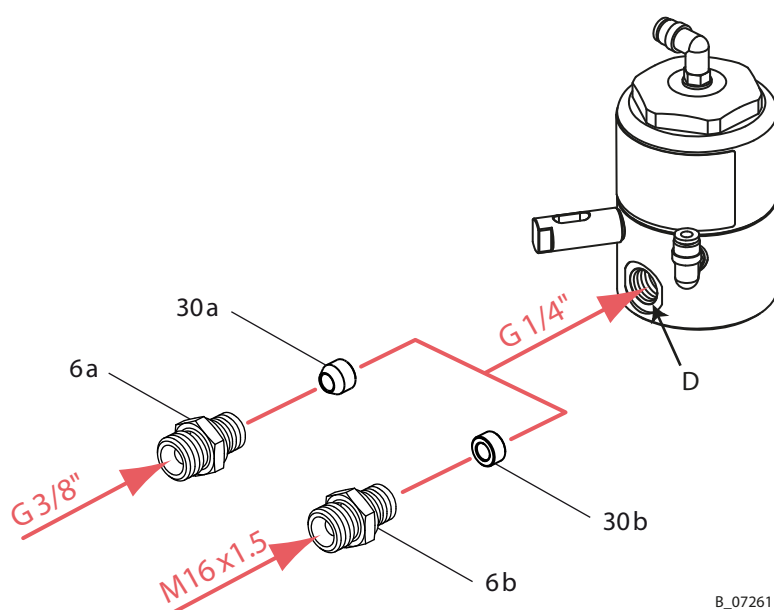
Pos	Order no.	Designation	Chapter
1	2357411 2357409	Paint valve PV 530-DN4-SSt Paint valve PV 530-DN4-TC	13.3.1
2	2357465 2357464	Dosing valve DV 530-DN4-SSt Dosing valve DV 530-DN4-TC	13.3.2
3	2357404	Valve base plate 530, complete	13.4.1
4	392096	Base plate closure 530	13.4.1.1
5	392090	Valve mounting bracket 400, complete	13.5.1
6	2325826	Fitting DF-MM-G3/8-G1/4-530 bar-SSt	--
7	2357271	Circulation connection, complete	13.6
8	2331309	Fitting EF-FM-G3/8-G3/8-530 bar-SSt	--
9	-- -- -- -- 2368471	Pressure gauge combination 1 MPa; 10 bar; 145 psi Pressure gauge combination 4 MPa; 40 bar; 580 psi Pressure gauge combination 25 MPa; 250 bar; 3626 psi Pressure gauge combination 40 MPa; 400 bar; 5800 psi Pressure gauge combination 60 MPa; 600 bar; 8700 psi	G3/8" 13.7
10	377180 377181 377182 377183 392072	Radial pressure gauge 1 MPa; 10 bar; 145 psi Radial pressure gauge 4 MPa; 40 bar; 580 psi Radial pressure gauge 25 MPa; 250 bar; 3626 psi Radial pressure gauge 40 MPa; 400 bar; 5800 psi Radial pressure gauge 60 MPa; 600 bar; 8700 psi	G1/4" 13.8
20	2360426	Paint valve PV 530-DN4-TC [valve below]	13.3.3
21	377485	Valve combination base plate	13.4.2
22	377486	Valve combination mounting bracket (For screws, see Chapter 13.5.2)	13.5.2
23	2331173	Fitting DF-MM-G3/8-G1/4-530 bar-SSt	--

5.4.3 USE WITH M16 THREADS

To use the valve as a spare part in existing systems with M16 ISO threads:

1. Remove the filler part (30a) from the product connection (D).
2. Use filler part (30b, included in the valve's scope of delivery) in the product connection (D).
3. Connect the valve with the existing fitting (6b) to the system.

→ Supplementary components and accessories: for order no., see operating documents from the corresponding system.



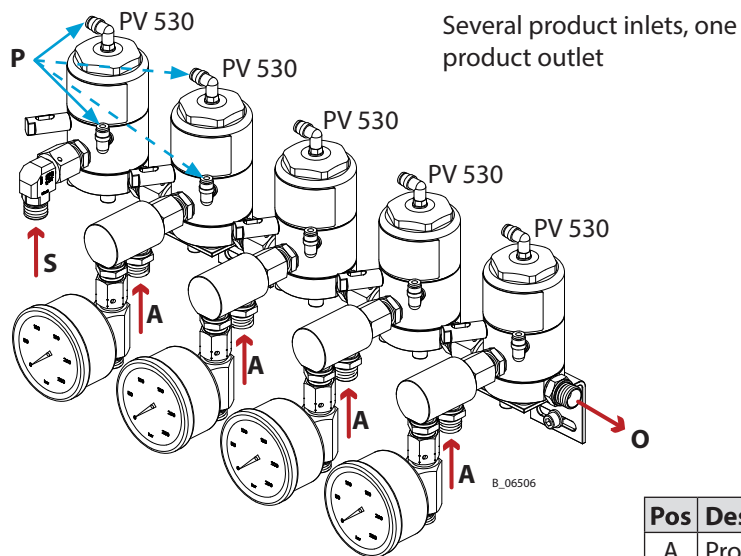
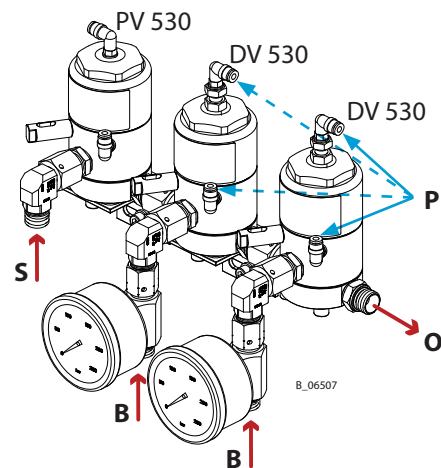
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Pos	Designation	Standard G3/4"	Special accessories M16
		Order no.	Order no.
30a	Filler part with 60° beveling	2356616	/
30b	Filler part without 60° beveling	/	377405
6a	Fitting DF-MM-G3/8-G1/4-530 bar-SSt with 60° countersink with G1/4"	2325826	/
6b	Fitting RF-MM-G1/4-M16x1.5-530bar-SSt without 60° countersink with G1/4"	/	9998860

5.4.4 MOUNTING VARIANTS**Valve block**

Several valves are screwed together in a row. The flow of product can take place in both directions (mixing or splitter valve).

Example: valve block for 2K mixer system

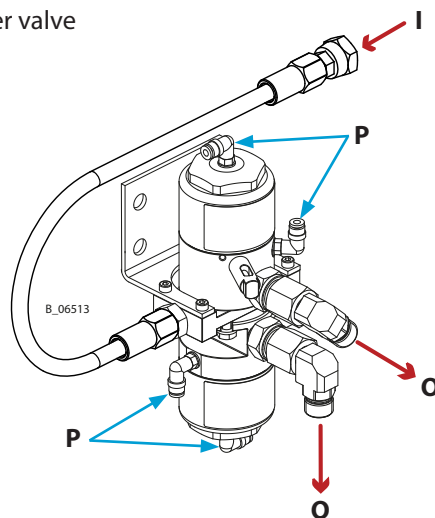
Paint valve block**Dosing valve block**

Pos	Designation
A	Product inlet (lacquer)
B	Product inlet (hardener)
O	Product outlet
P	Control air connection
S	Product inlet (flushing agent)

Valve combination

Two paint valves are screwed to the same base plate. The flow of product can take place in both directions (mixing or splitter valve).

Example: splitter valve



One product inlet, several product outlets

Pos	Designation
I	Product inlet
O	Product outlet
P	Control air connection

5.5 DATA**5.5.1 MATERIALS OF PAINT-WETTED PARTS**

Materials in direct contact with the products		
Stainless steel	Carbide	POM – polyoxymethylene
PTFE – polytetrafluorethylene	FFKM – perfluoroelastomer	FKM – fluororubber*

* Or FEP when using an O-ring coated with FEP (special accessory).

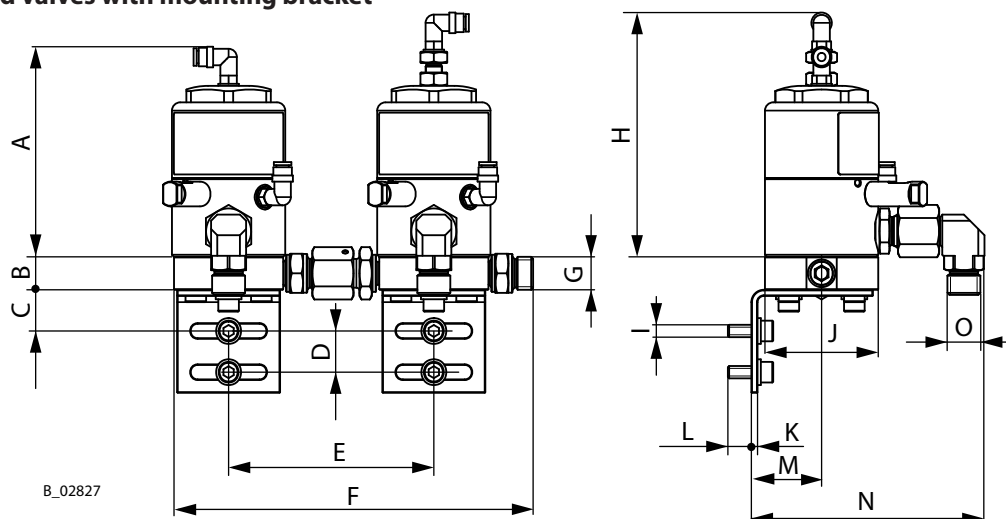
5.5.2 TECHNICAL DATA**⚠ WARNING****Exhaust air containing oil!**

Risk of poisoning if inhaled.

→ Provide compressed air free from oil and water.



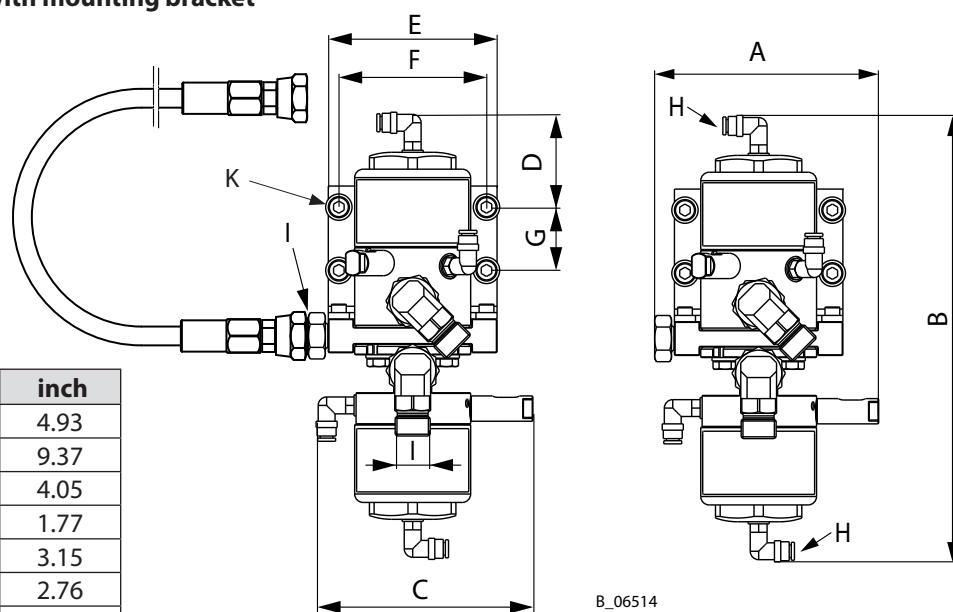
Properties		PV 530-DN4 DV 530-DN4
Maximum product pressure		53 MPa; 530 bar; 7687 psi
Control air pressure		0.5–0.8 MPa 5–8 bar 73–116 psi
Air pressure quality: free from oil and water		Quality standard 7.5.4 according to ISO 8573.1, 2010 7: Particle concentration 5 – 10 mg/m ³ 5: Humidity: pressure dew point ≤ +7 °C 4: Oil content ≤ 5 mg/m ³
Product inlet, inner thread		G1/4"
Product outlet, outer thread		G3/8"
Control air connection		ø 4 mm
Product viscosity		20–2000 mPa·s
Product pH value		3.5–9
Product temperature		5–80 °C 41–176 °F
Maximum surface temperature		85 °C 185 °F
Ambient temperature	Operation	5–40 °C 41–104 °F
	Assembly	0–40 °C 32–104 °F
	Storage	–20–60 °C –4–140 °F
Relative humidity (operation, assembly, storage)		10–95% (without condensation)
Maximum switching frequency		3 Hz
Sound level		< 55 dB(A)
Weight		1.2 kg; 42.32 oz

5.5.3 DIMENSIONS**Standard valves with mounting bracket**

Measurement	mm	inch
A	102	4.02
B	16	0.63
C	20	0.79
D	20	0.79
E	99.7	3.93

Measurement	mm	inch
F	174.4	6.87
G	G3/8"	19
H	118.6	4.67
I	M6	0.24
J	55	2.17

Measurement	mm	inch
K	3	0.12
L	11.4	0.45
M	34.1	1.34
N	113.2	4.46
O	G3/8"	19

Valve combination with mounting bracket

Pos	mm	inch
A	125.1	4.93
B	238.1	9.37
C	102.8	4.05
D	45	1.77
E	80	3.15
F	70	2.76
G	30	1.18
H	ID 4	ID 0.16
I	G3/8"	19
K	M6	0.24

ID = Inside diameter

6 ASSEMBLY AND COMMISSIONING

6.1 TRAINING OF ASSEMBLY/COMMISSIONING PERSONNEL

- The assembly and commissioning personnel must have the technical skills to safely commission the device.
- When assembling, commissioning and carrying out all work, read and follow the operating manuals and safety regulations for the additionally required system components.

A skilled person must check to ensure that the device is in a reliable state after it is installed and commissioned.

6.2 STORAGE AND INSTALLATION CONDITIONS

Until the point of assembly, the device must be stored in a dry location, free from vibrations and with a minimum of dust. The device must be stored in closed rooms.

For ambient temperature and air humidity, see Chapter [5.5.2](#).

6.3 ASSEMBLY AND INSTALLATION

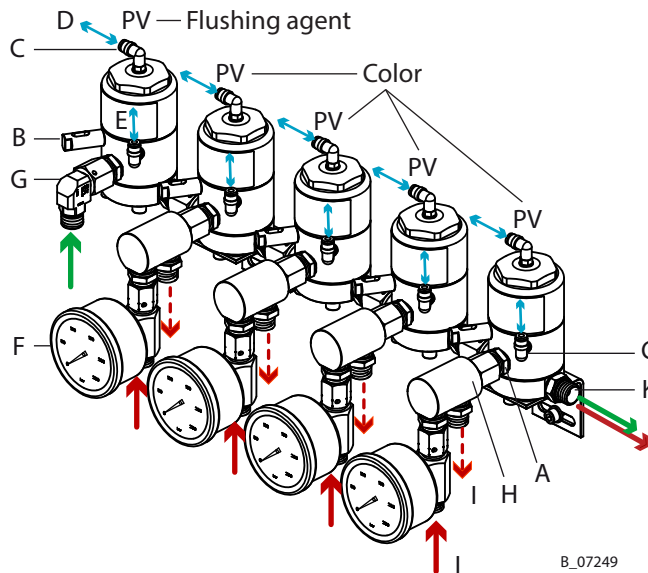
The pneumatically operated paint valves and dosing valves are suitable for operation in Explosion Zone 1.

! NOTICE

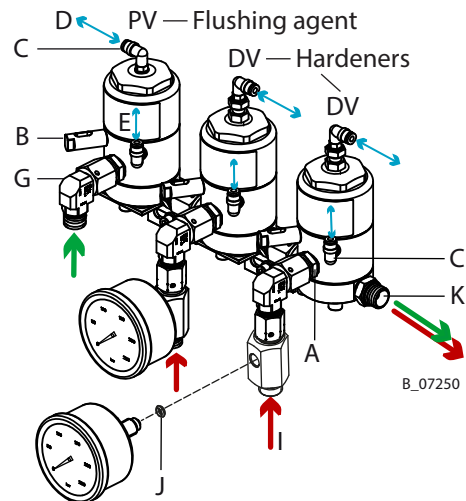
Interchange of the two components A and B!

Device damage due to hardened product.

- Label device components and paint tank so that the components A and B are not mixed up.



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B_07250

Connect valves and supplementary components in accordance with the system diagram.

- Product inlets (A): Tighten threaded fitting with 40 Nm; 29.50 lbft.
- Level indications (B):
All filler parts must be used and the filler openings must be facing upwards.
- Paint valves (PV) or dosing valves (DV):
Mount standing on the base plate. Tighten the 4 M6x25 screws on the block.
- Valve block closure:
Tighten with 40 Nm; 29.5 lbft, at the outlet of the final screw neck.
- Closure of the base plate at the flushing agent valve:
Mount a screw plug with filler part or suitable pressure gauge.
- Control air connections (C): Tighten M5 threaded elbow fitting with 0.16 Nm; 0.11 lbft.
- Connection of the pneumatic hoses (outside Ø 4 mm; Ø 0.16 inch):
 - Above (D): Basic setting pressurized (valve closed).
 - Laterally (E): Basic setting bled (valve closed).
- Mount pipe elbow (G), circulation connection (H), high-pressure hoses (I).
- Pressure gauge: Insert sealing ring (J), then screw in pressure gauge (F) by hand until stop is reached. 1/4 turn with wrench and then continue turning the pressure gauge only to align it. Do not turn back.
- Screw the completely pre-mounted valve blocks with M6x16 screws to the correspondingly suitable retainer.
- Fill separating agent into the tanks (B). Do not use diluents for cellulose lacquers and cleaners as separating agents.

6.4 GROUNDING THE SYSTEM

DANGER

Discharge of electrostatically charged components in atmospheres containing solvents!

Explosion hazard from electrostatic sparks or flames.

→ Connect the valve to the ground potential via the screws and the mounting bracket.



A conductive connection (potential equalization cable) must be established between original tank and the equipment.

6.5 PRE-CLEANING

The function of all the valves is checked with water or emulsifying oil after factory mounting. Before being commissioned, the remainder of this liquid has to be flushed out thoroughly using solvent (flushing agent).

WARNING

Incompatibility of the solvent with the product used!

Risk of explosion and danger of poisoning by toxic gases.

→ Examine the compatibility of the solvent when in contact with the used products on the basis of the safety data sheets.



Notice:

The flushing agent must be compatible with the products to be used later. We therefore recommend contacting the product suppliers.

6.6 COMMISSIONING

When commissioning and for all work, read and follow the operating manual and safety regulations for the additionally required system components.

6.6.1 PRESSURE TIGHTNESS TEST

WARNING

Overpressure!

Risk of injury from bursting components.

→ The operating pressure must not exceed the value shown on the type plate.



Before the tightness check:

- Vent all the product and hardener circuits under low-pressure via the gun until clean flushing agent is emitted.

Tightness check of the entire system:

- Check all the product circuits consecutively with flushing agent.
- Increase the pressure slowly, step-by-step until the maximum permissible pressure has been reached.

The following points are to be observed:

- The pressure has to be compatible with the maximum pressure of the entire system.
- Examine the entire system for possible leaks.
- The maximum pressure has to be maintained for at least 2 minutes.
- Any leaks occurring have to be eliminated immediately.

After the check has been completed:

- Switch off the air pressure of all the pumps.
- Relieve the pressure of pumps and of the whole system.

7 OPERATION

7.1 TRAINING THE OPERATING PERSONNEL

- The operating personnel must be qualified to operate the entire system. Read and follow the operating manuals and safety regulations for the additionally required system components.
- The operating staff must be familiar with the potential risks associated with improper behavior as well as the necessary protective devices and measures.
- Before work commences, the operating personnel must receive appropriate system training.

7.2 TASKS

General notices:

- The specified technical data may never be exceeded.
- Before a longer standstill (e.g. holiday/vacation) the valves have to be rinsed and the flushing agent left in the system until it is started up again.

7.3 PRESSURE RELIEF/WORK INTERRUPTION

The pressure must always be relieved:

- after the spraying tasks are finished,
- before servicing or repairing the spraying system,
- before carrying out cleaning tasks on the spraying system,
- Before moving the spraying system to another location.
- before something must be checked on the spraying system,
- before the nozzle or the filter is removed from the spray gun.

The components for pressure relief on a CE-compliant spraying system include:

- Air cock with pressure relief hole mounted between compressed air source and pneumatic pump.
- Outlet equipment (return valve) mounted between pump and spray gun.

If the system will process 2K products:

⚠ NOTICE

Hardened working material in the spraying system when 2K product is processed!

Destruction of pump and injection system.

- Observe the manufacturer's processing rules, particularly in regards to the pot life.
- Flush thoroughly before the end of the pot life.
- The pot life is decreased by warmth.

7.4 FLUSHING

Regular flushing

- The valves must be regularly cleaned and flushed.
- The cleaning and flushing agents used must be compatible with the working material.

8 CLEANING AND MAINTENANCE

8.1 CLEANING

8.1.1 CLEANING PERSONNEL

Cleaning work should be undertaken regularly and carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during cleaning work:

- risk to health from inhaling solvent vapors,
- use of unsuitable cleaning tools and aids.

8.2 MAINTENANCE

8.2.1 MAINTENANCE PERSONNEL

Maintenance work should be undertaken regularly and carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during maintenance work:

- risk to health from inhaling solvent vapors,
- use of unsuitable tools and aids.

An authorized person must ensure that the device is checked for being in a reliable state after maintenance work is completed.

8.2.2 MAINTENANCE INSTRUCTIONS

DANGER

Incorrect maintenance/repair!

Danger to life and equipment damage.

- Repair or replacement of devices or parts of devices are only allowed to be performed outside the hazard area by qualified personnel.



WARNING

Incorrect maintenance/repair!

Danger to life and equipment damage.

- Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- Only repair and replace parts that are listed in the "Spare parts" chapter and that are assigned to the unit.
- Before all work on the device and in the event of work interruptions:
 - Relieve pressure from spray guns, high-pressure hoses and all devices.
 - Secure spray guns against actuation.
 - Switch off the energy and compressed air supply.
 - Disconnect the control unit from the mains.
- Observe the operating and service manual for all work.



Prior to Maintenance

- Cleaning and flushing the device.

After maintenance

- Put the system into operation and check for leaks.
- Carry out safety checks in accordance with Chapter [8.2.3](#).
- Have the device checked for safe condition by an authorized person.

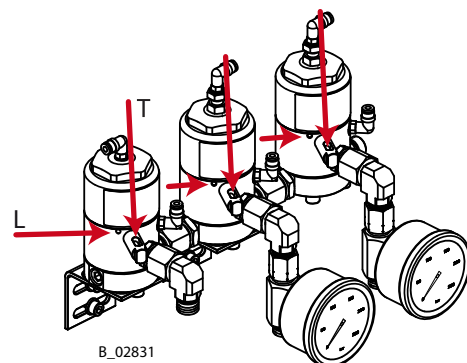
8.2.3 SAFETY CHECKS AND MAINTENANCE INTERVALS**⚠ WARNING****Heavy paint mist in the case of leaking!**

Danger of poisoning.

- Comply with maintenance intervals (tightness check).
- Examine the compatibility of the cleaning agents and working media on the basis of the safety data sheets.

**Every day**

- Check leakage hole (L) (see Chapter [10](#)).
In case air or paint is emitted at the leakage hole:
 - Seals defective, replace.
- Check separating agent filling opening (T) (see Chapter [8.2.4](#)).
 - In the case of soiled separating agent:
 - Exchange valve needle seal and replace separating agent.
 - Top up separating agent as necessary.
- Check hoses, tubes and couplings: see Chapter [8.2.5](#).

**Yearly or as required**

- In accordance with DGUV regulation 100-500 Chapter 2.29 and Chapter 2.36:
 - The liquid ejection devices should be checked by an expert (e.g., WAGNER service technician) for their safe working conditions as required and at least every 12 months.
 - For shut down devices, the examination can be suspended until the next start-up.

8.2.4 TOPPING UP OR REPLACING THE SEPARATING AGENT**Normal filling level**

At a normal filling level, the separating agent must be visible in the separating agent filling opening.

Top up separating agent as necessary.

Replacing separating agent

Drain old separating agent. Pour in new separating agent.

8.2.5 PRODUCT HOSES, PIPES AND COUPLINGS

The service life of the complete hoses between product pressure generator and application device is reduced due to environmental influences even when handled correctly.

- Check hoses, pipes, and couplings every day and replace if necessary.
- Additionally, the operator must regularly check the complete hoses for wear and tear as well as for damage at intervals that he/she has set. Records of these checks must be kept.
- Undamaged complete hoses are to be replaced when one of the two following intervals has been exceeded:
 - 6 years from the date of the hose crimping (see fitting embossing).
 - 10 years from the date of the hose imprinting.

Fitting embossing (if present)	Meaning
xxx bar	Pressure
yymm	Crimping date (year/month)
XX	Internal code

Hose imprinting	Meaning
WAGNER	Name / Manufacturer
yymm	Date of manufacture (year/month)
xxx bar (xx MPa) e.g., 270 bar (27 MPa)	Pressure
XX	Internal code
DNxx (e.g., DN10)	Nominal diameter

9 REPAIRS

9.1 REPAIR PERSONNEL

Repair work should be undertaken carefully by qualified and trained personnel. They should be informed of specific hazards during their training.

The following hazards may arise during repair work:

- risk to health from inhaling solvent vapors,
- use of unsuitable tools and aids.

A skilled person must check to ensure that the device is in a reliable state after it is repaired.

9.2 SAFETY INSTRUCTIONS

DANGER

Incorrect maintenance/repair!

Danger to life and equipment damage.

- Repair or replacement of devices or parts of devices are only allowed to be performed outside the hazard area by qualified personnel.



WARNING

Incorrect maintenance/repair!

Danger to life and equipment damage.

- Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- Only repair and replace parts that are listed in the "Spare parts" chapter and that are assigned to the unit.
- Before all work on the device and in the event of work interruptions:
 - Relieve pressure from spray guns, high-pressure hoses and all devices.
 - Secure spray guns against actuation.
 - Switch off the energy and compressed air supply.
 - Disconnect the control unit from the mains.
- Observe the operating and service manual for all work.



Before Repair Work

- Cleaning and flushing the device.

After Repair Work

- Put the system into operation and check for leaks.
- Carry out safety checks in accordance with Chapter [8.2.3](#).
- Have the device checked for safe condition by an authorized person.

9.3 ASSEMBLY AIDS

In the spare parts catalog the order numbers for device spare parts can be found, as well as for wearing parts such as seals.

→ Use torques, greases and glues in accordance with the following chapters.

Assembly Aids

Order no.	Quantity	Designation	Smaller tanks
9992831	1 pc $\triangle$ 50 ml	Loctite® 542	
9992616	1 pc $\triangle$ 1 kg can	Molykote® DX grease	50 g tube $\triangle$ Order No. 2355419
9992609	1 pc $\triangle$ 100 g	Anti-seize paste	
9998808	1 pc $\triangle$ 18 kg!	Mobilux® EP 2 grease	400 g tube $\triangle$ Order No. 2355418

Brand notice

The brands specified in this document are property of the respective owners. Loctite®, for example, is a registered brand of Henkel.

Tools

- Torque wrench SW 10; SW 19
- Torque wrench SW 8; SW 13

Order no.	Stk	Designation	
55106	1	Size 41 single-head engineers wrench, (SW 41) 41 mm; 1.61 inch	
377940	1	Assembly tool JS seal	

O-ring at valve seat

Order no.	Stk	Designation	
9974131	1	O-ring coated with FEP (special accessory). Use in case of strongly aggressive products (as a substitute for the series O-ring 2393647)	

9.4 DISASSEMBLING

→ Drain separating agent filler opening before disassembly.

9.4.1 CLEANING THE PARTS AFTER DISASSEMBLY

Please note:

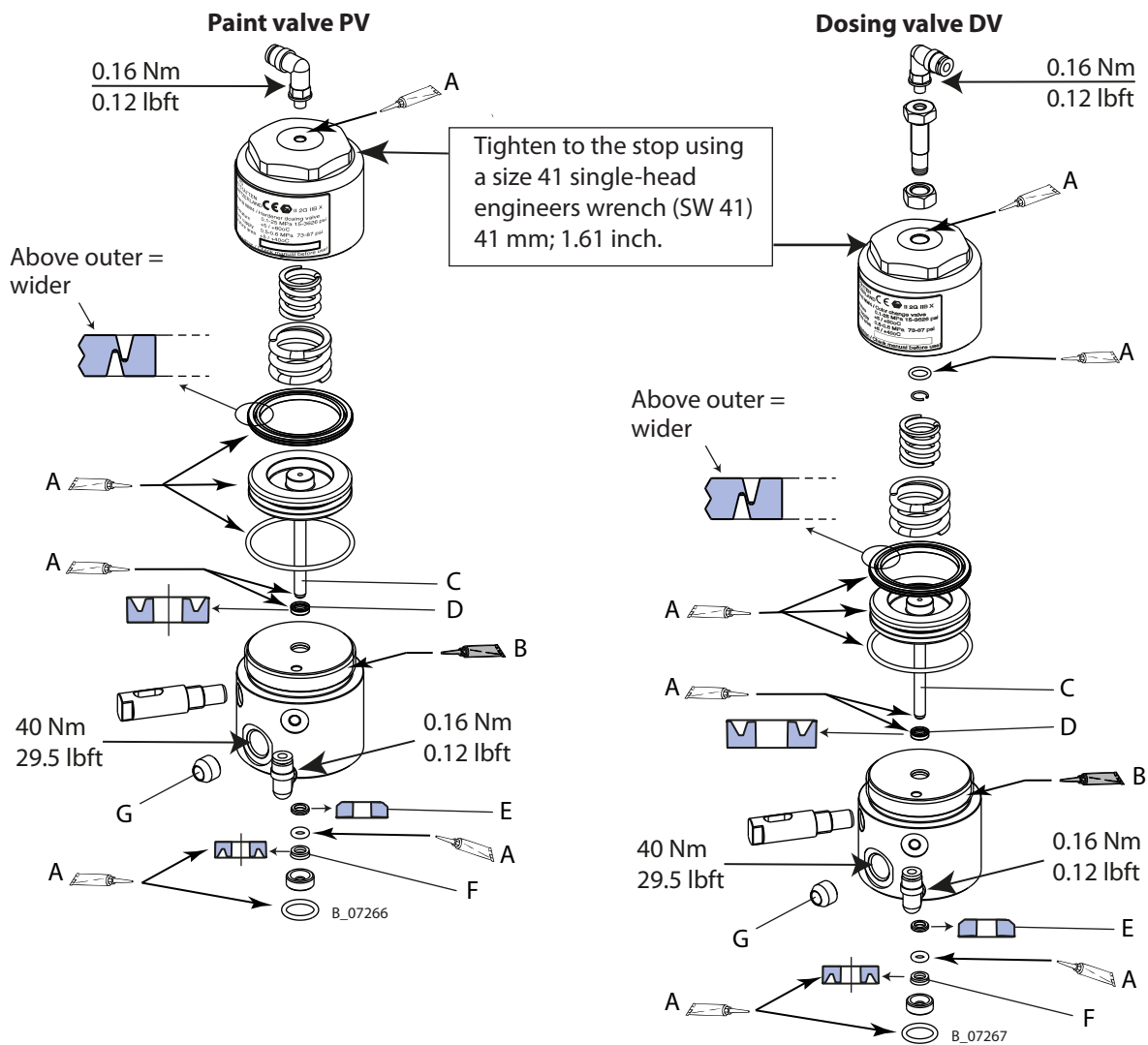
- Thoroughly clean all reusable parts with a suitable cleaning agent.
- All dismantled parts have to be clean and dry after cleaning. Care should be taken that these parts remain free of solvents, grease or sweat from the hands (salt water). Perform cleaning and mounting tasks wearing gloves.
- After the cleaning, blow out the valve housing with air.
- Spare parts may have safety-relevant properties.
Only repair and replace parts that are listed in the "Spare parts" chapter and that are assigned to the unit.
- Defective parts must always be replaced.
- O-rings and seal sets are preferably to be replaced.

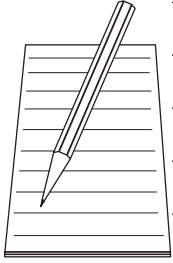
9.5 ASSEMBLY**Grease seals**

- Lightly grease all the seals using Mobilux® EP 2 grease (**A** / order no. 9998808) before assembling them.
- Grease threads on valve housing with anti-seize paste (**B** / order no. 9992609).

Assembly instructions

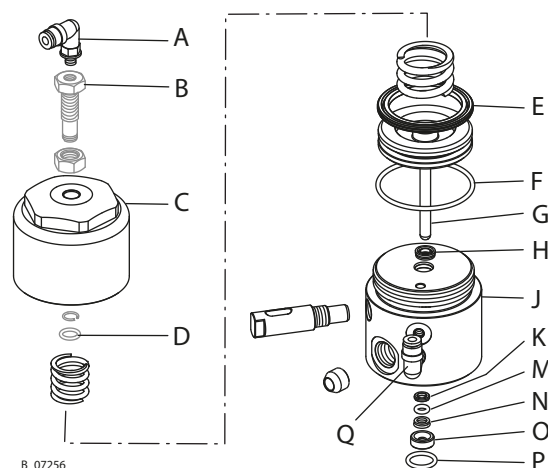
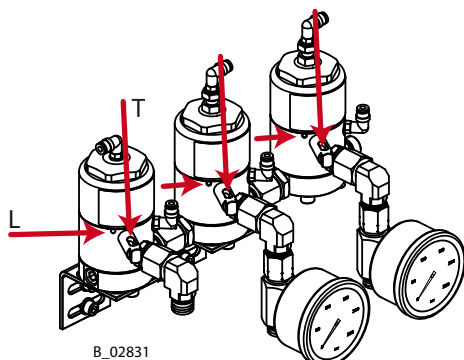
- Observe the installation position at the seal wiper ring (**D**), at the Flexiseal (**F**) and at the back-up ring (**E**).
- Screw together the valve housing with the valve cover up to the stop.
- Insert the filler part (**G**) into the valve housing and tighten the threaded fitting using a size 19 torque wrench (SW 19); 0.75 inch with 40 Nm; 29.50 lbft.
- Put the FlexiSeal (**F**) onto the mounting tool and press the valve needle (**C**) complete with seal wiper ring (**D**) into the valve housing against the mounting tool.





10 TROUBLESHOOTING

Leakage hole (L) and separating agent filling opening (T):



Malfunction	Cause	Remedy
No product transportation	Valve does not open.	Check the control air hoses. Replace piston seals (E). Replace O-ring (F).
	Travel adjustment set too low (dosing valve).	Increase the travel adjustment with adjustment screw (B).
	Contamination Valve clogged by product.	Dismantling and cleaning.

Leakage	Cause	Remedy
Product emission from leakage hole (L) or separating agent opening (T).	Valve needle seals defective.	Exchange valve needle seals (K, M, N) and replace separating agent.
Separating agent contaminated.		
Product emission between valve house (J) and base plate.	O-ring (P) at valve seat defective (O) defective, short service life.	Replace O-ring (P) with special O-ring (see Chapter 9.3).
Air emission from leakage hole (L).	Seal wiper ring (H) defective.	Replace seal wiper ring (H).
Air emission between valve housing and valve cover.	O-ring (F) defective.	Replace O-ring (F).
Air emission at male stud elbow (A) or (Q).	Male stud elbow (A) or (Q) does not seal.	Tighten/replace male stud elbow (A) or (Q).
Dosing valve: air emission at adjustment screw (B).	O-ring (D) defective (dosing valve).	Replace O-ring (D).
Product flow at closed valve setting.	Valve does not close.	Replace valve seat (O) and valve needle (G).

11 DISPOSAL

When the equipment must be scrapped, please differentiate the disposal of the waste materials.

The following materials have been used:

- Steel
- Aluminum
- Elastomers
- Plastics
- Carbide

Consumable products

Consumable products (lacquers, adhesives, flushing and cleaning agents) must be disposed of in accordance with all applicable legal requirements.

12 ACCESSORIES

Order no.	Designation	
9992504	Separating agent 250 ml; 250 cc	

13 SPARE PARTS

DANGER

Incorrect maintenance/repair!

Danger to life and equipment damage.

- Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.
- Only repair and replace parts that are listed in the "Spare parts" chapter and that are assigned to the unit.
- Before all work on the device and in the event of work interruptions:
 - Relieve pressure from spray guns, high-pressure hoses and all devices.
 - Secure spray guns against actuation.
 - Switch off the energy and compressed air supply.
 - Disconnect the control unit from the mains.
- Observe the operating and service manual for all work.



13.1 HOW CAN SPARE PARTS BE ORDERED?

Always supply the following information to ensure delivery of the right spare part:

Order number, designation and quantity

The quantity need not be the same as the number given in the quantity column "**Stk**" on the list. This number merely indicates how many of the respective parts are used in each component.

The following information is also required to ensure smooth processing of your order:

- address for the invoice,
- address for delivery,
- name of the person to be contacted in the event of any queries,
- type of delivery (normal mail, express delivery, air freight, courier etc.)

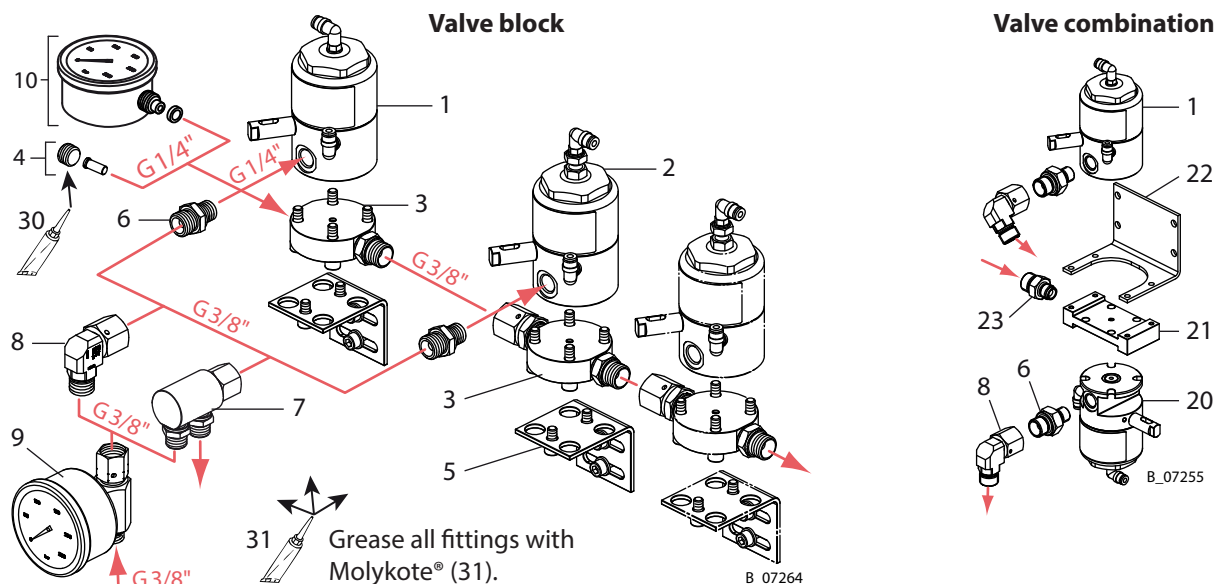
Identification in spare parts lists

Explanation of column "**K**" (labeling) in the following spare parts lists:

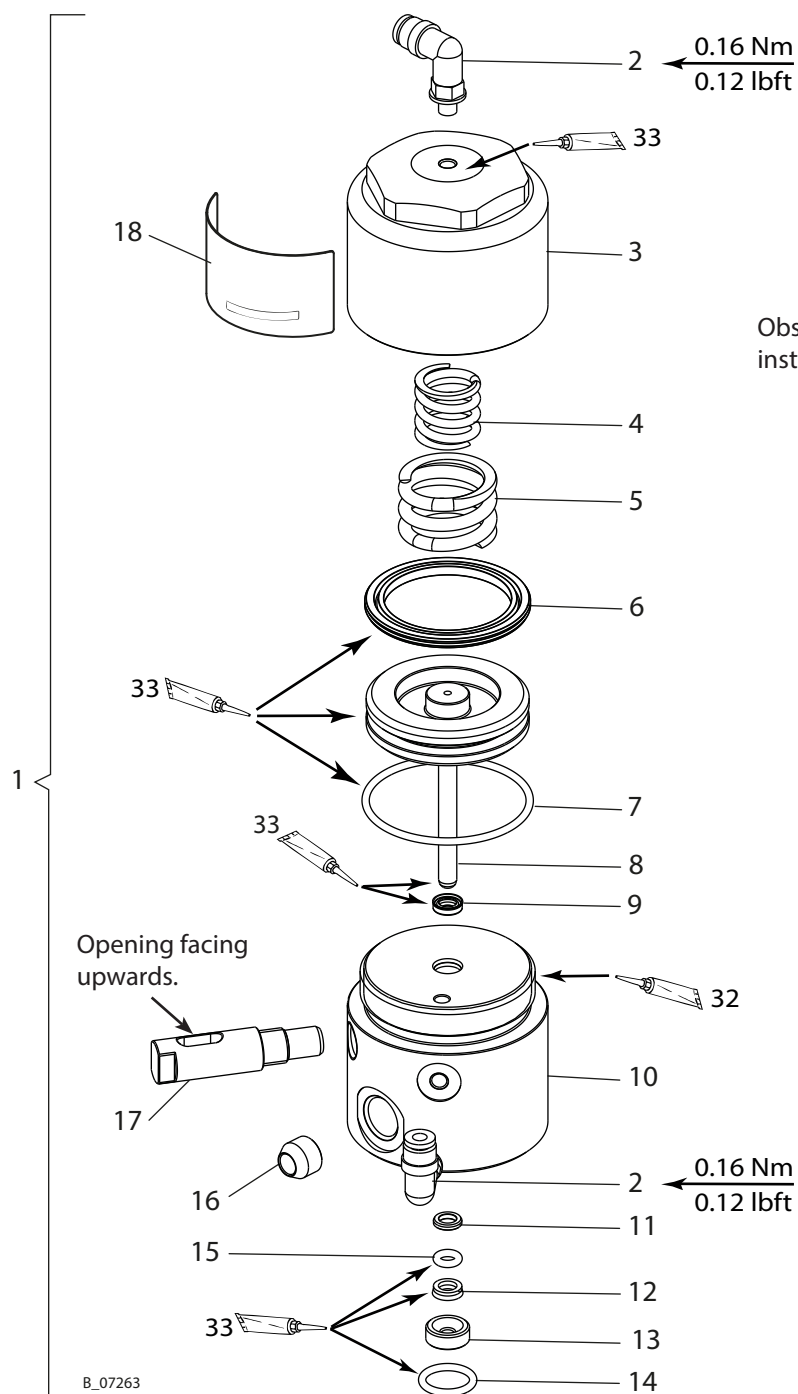
- ◆ Wearing parts Wearing parts are not included in the warranty terms.
- ★ Included in service set
- Not part of standard equipment, available, however, as additional extra.

Explanation of Order No. column:

- Item not available as spare part.
- / Position does not exist.

13.2 OVERVIEW OF VALVES WITH SUPPLEMENTARY COMPONENTS G3/8"

Pos	Order no.	Designation	Chapter
1	2357411 2357409	Paint valve PV 530-DN4-SSt Paint valve PV 530-DN4-TC	13.3.1
2	2357465 2357464	Dosing valve DV 530-DN4-SSt Dosing valve DV 530-DN4-TC	13.3.2
3	2357404	Valve base plate 530, complete	13.4.1
4	392096	Base plate closure 530	13.4.1.1
5	392090	Valve mounting bracket 400, complete	13.5.1
6	2325826	Fitting DF-MM-G3/8-G1/4-530 bar-SSt	--
7	2357271	Circulation connection, complete	13.6
8	2331309	Fitting EF-FM-G3/8-G3/8-530 bar-SSt	--
9	-- -- -- -- 2368471	Pressure gauge combination 1 MPa; 10 bar; 145 psi Pressure gauge combination 4 MPa; 40 bar; 580 psi Pressure gauge combination 25 MPa; 250 bar; 3626 psi Pressure gauge combination 40 MPa; 400 bar; 5800 psi Pressure gauge combination 60 MPa; 600 bar; 8700 psi	G3/8" 13.7
10	377180 377181 377182 377183 392072	Radial pressure gauge 1 MPa; 10 bar; 145 psi Radial pressure gauge 4 MPa; 40 bar; 580 psi Radial pressure gauge 25 MPa; 250 bar; 3626 psi Radial pressure gauge 40 MPa; 400 bar; 5800 psi Radial pressure gauge 60 MPa; 600 bar; 8700 psi	G1/4" 13.8
20	2360426	Paint valve PV 530-DN4-TC [valve below]	13.3.3
21	377485	Valve combination base plate	13.4.2
22	377486	Valve combination mounting bracket (For screws, see Chapter 13.5.2)	13.5.2
23	2331173	Fitting DF-MM-G3/8-G1/4-530 bar-SSt	--
30	9992831	Loctite® 542	--
31	9992616	Molykote® grease	--

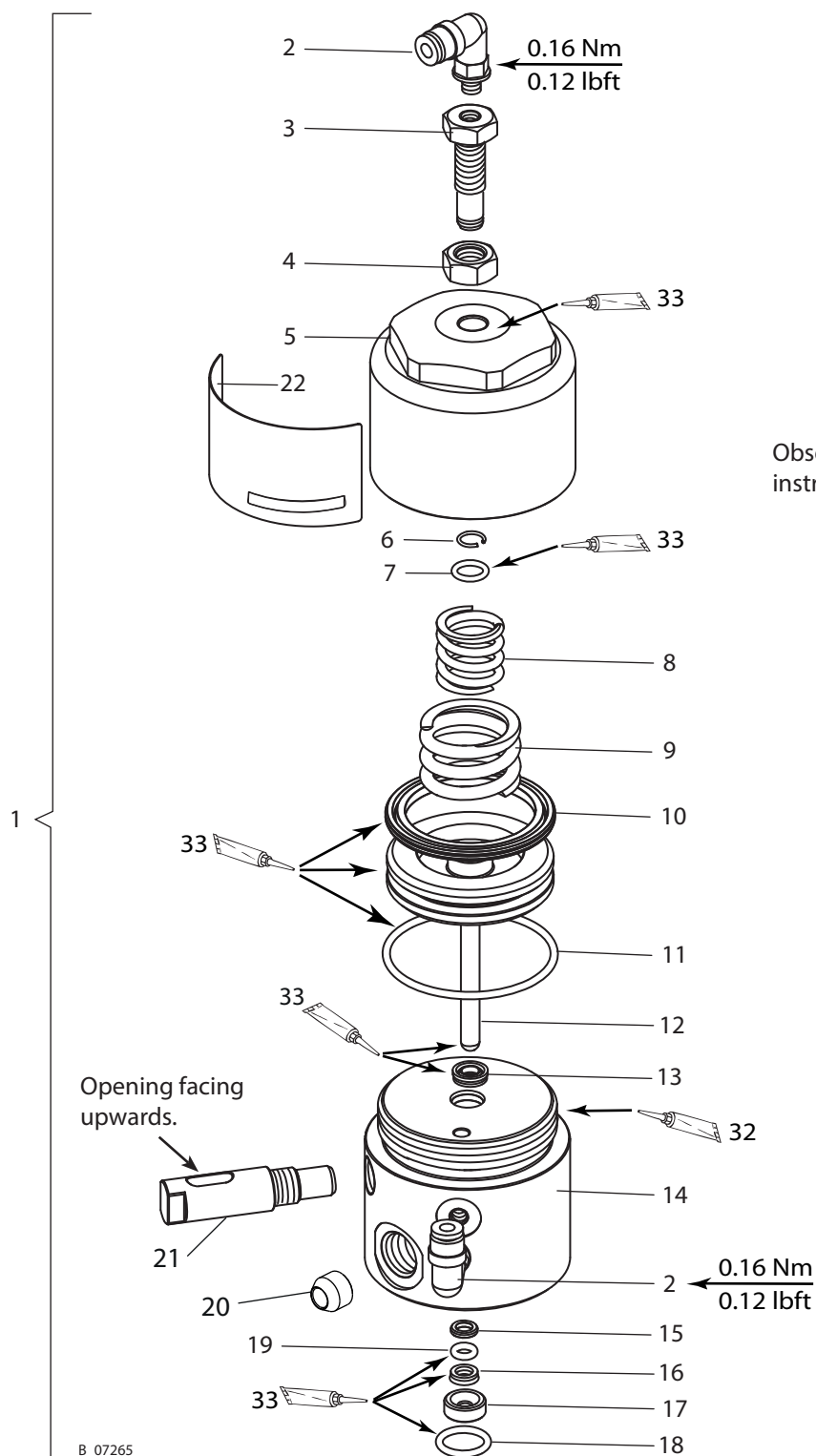
13.3 VALVES**13.3.1 PAINT VALVES PV 530**

Pos	K	Stk	PV TC	PV SSt	Designation
			Order no.	Order no.	
1		1	2357409	2357411	Paint valve PV 530-DN4 530 bar; 53 MPa; 7687 psi
2		2	9998869		Male stud elbow
3		1	377400		Valve cover
4		1	9998861		Cylindrical helical spring
5		1	9998862		Cylindrical helical spring
6	◆★	1	9974128		Piston seal
7	◆★	1	9971461		O-ring
8	◆★	1	377042	377043	Valve needle, complete
9	◆★	1	9974175		Seal wiper ring
10		1	377446		Valve housing
11	◆★	1	377447		Back-up ring
12	◆★	1	9974130		Flexiseal
13	◆★	1	377404	377419	Valve seat
14	◆★	1	2393647		O-ring
	◆●	1	9974131		O-ring coated with FEP (see Chapter 9.3)
15	◆★	1	9971486		O-ring solvent-resistant
16	◆★	1	2356616		Filler part with 60° beveling
	◆★●	1	377405		Filler part without 60° beveling (see Chapter 5.4.3)
17		1	377406		Level indication
18		1	--	--	Type plate
32		1	9992609		Anti-seize paste
33		1	9998808		Mobilux® EP 2 grease
		1	377947	377945	Service set

◆ = Wearing parts

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

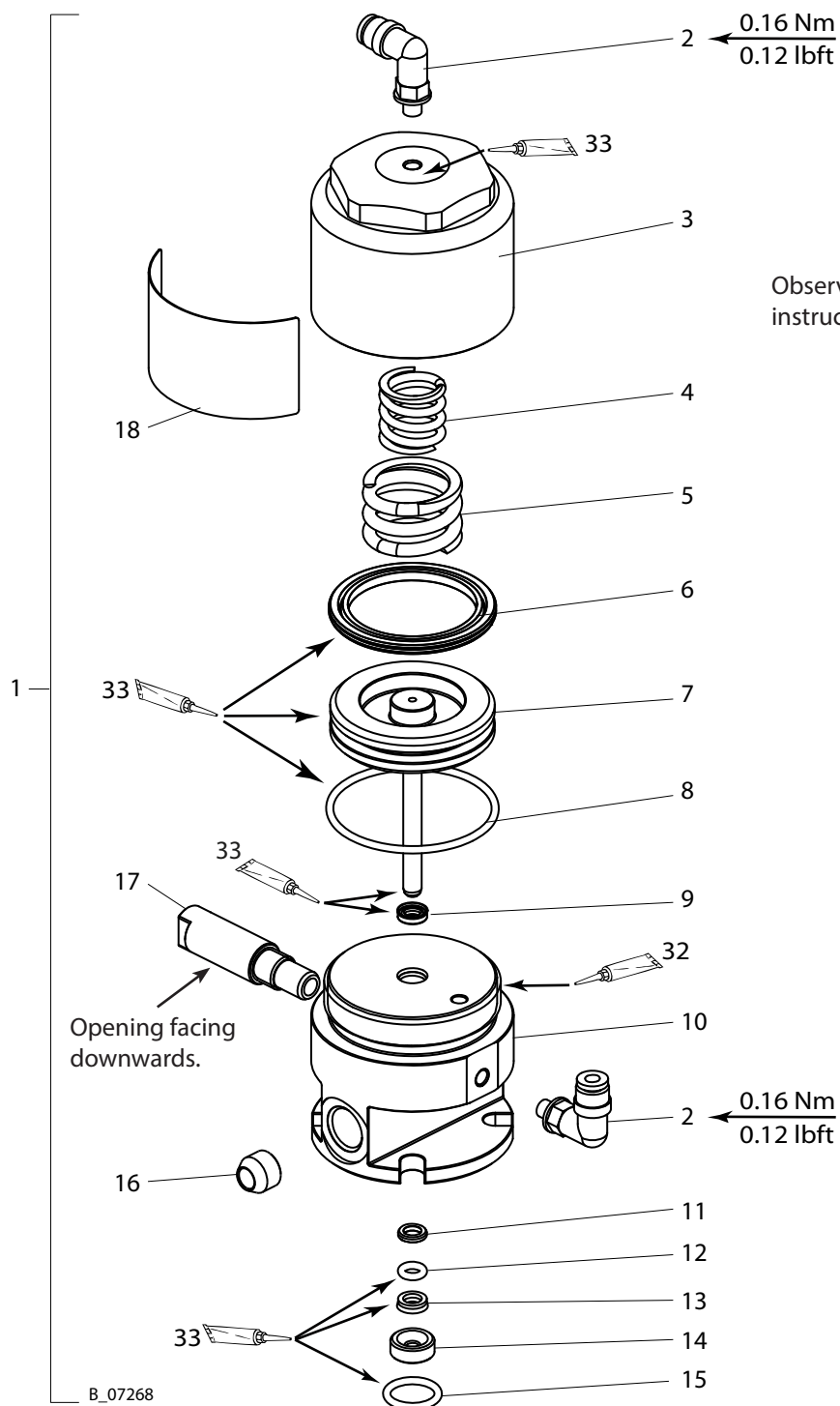
13.3.2 DOSING VALVES DV 530

Pos	K	Stk	TC	SSt	Designation
			Order no.	Order no.	
1		1	2357464	2357465	Dosing valve DV 530-DN4 530 bar; 53 MPa; 7687 psi
2		2	9998869		Male stud elbow
3		1	377408		Adjustment screw
4		1	377409		Adjustment nut
5		1	377407		Valve cover
6		1	9925032		Round wire snap ring
7		1	9974066		O-ring
8		1	9998861		Cylindrical helical spring
9		1	9998862		Cylindrical helical spring
10	◆ ★	1	9974128		Piston seal
11	◆ ★	1	9971461		O-ring
12	◆ ★	1	377042	377043	Valve needle, complete
13	◆ ★	1	9974175		Seal wiper ring
14		1	377446		Valve housing
15	◆ ★	1	377447		Back-up ring
16	◆ ★	1	9974130		Flexiseal
17	◆ ★	1	377404	377419	Valve seat
18	◆ ★	1	2393647		O-ring
	◆ ●	1	9974131		O-ring coated with FEP (see Chapter 9.3)
19	◆ ★	1	9971486		O-ring solvent-resistant
20	◆ ★	1	2356616		Filler part with 60° beveling
	◆ ★ ●	1	377405		Filler part without 60° beveling (see Chapter 5.4.3)
21		1	377406		Level indication
22		1	--	--	Type plate
32		1	9992609		Anti-seize paste
33		1	9998808		Mobilux® EP 2 grease
		1	377947	377945	Service set

◆ = Wearing parts

★ = Included in service set

● = Not part of the standard equipment but available as a special accessory.

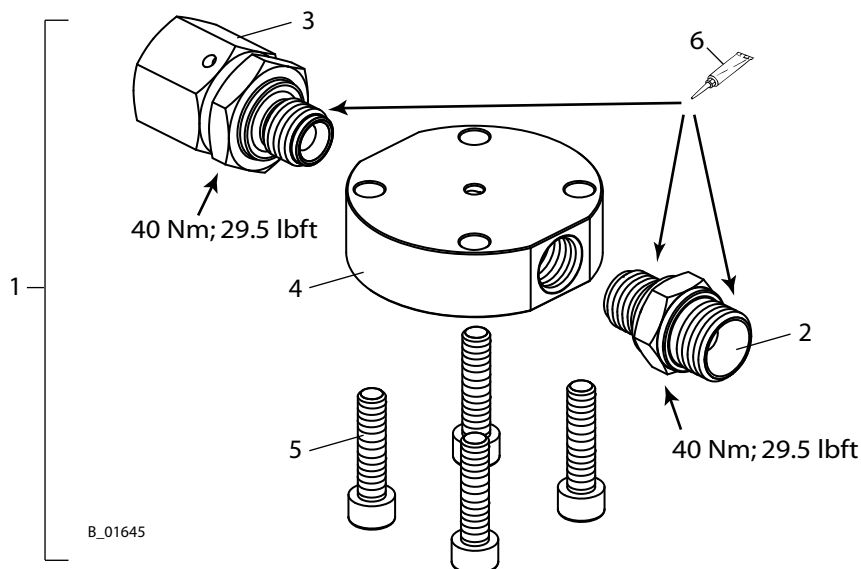
13.3.3 PAINT VALVE PV 530-DN4-TC [VALVE BELOW]

Pos	K	Stk	Order no.	Designation
1		1	2360426	Paint valve PV 530-DN4-TC [valve below] 53 MPa; 530 bar; 7687 psi
2		2	9998869	Male stud elbow
3		1	377400	Valve cover
4		1	9998861	Cylindrical helical spring
5		1	9998862	Cylindrical helical spring
6	◆ ★	1	9974128	Piston seal
7	◆ ★	1	377042	Valve needle, complete
8	◆ ★	1	9971461	O-ring
9	◆ ★	1	9974175	Seal wiper ring, profile EM
10		1	377484	Valve housing below
11	◆ ★	1	377447	Back-up ring
12	◆ ★	1	9971486	O-ring solvent-resistant
13	◆ ★	1	9974130	Flexiseal
14	◆ ★	1	377404	Valve seat
15	◆ ★	1	2393647	O-ring
	◆ ●	1	9974131	O-ring coated with FEP (see Chapter 9.3)
16	◆ ★	1	2356616	Filler part with 60° beveling
	◆ ★ ●	1	377405	Filler part without 60° beveling (see Chapter 5.4.3)
17	◆	1	377406	Level indication
18		1	--	Type plate
32		1	9992609	Anti-seize paste
33		1	9998808	Mobilux® EP 2 grease
		1	377947	Service set

◆ = Wearing parts

★ = Included in service set

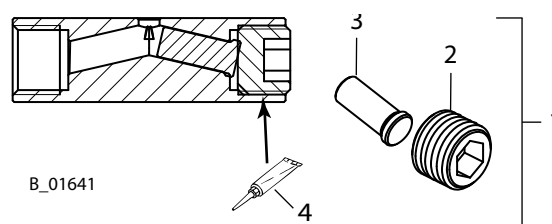
● = Not part of the standard equipment but available as a special accessory.

13.4 BASE PLATE AND MOUNTING BRACKET**13.4.1 BASIC BASE PLATE SET**

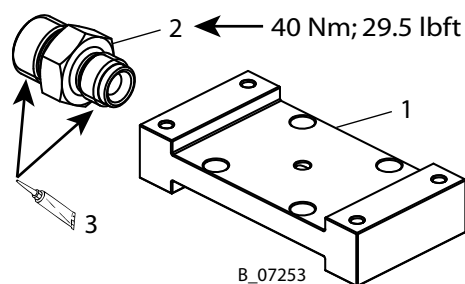
Pos	K	Stk	Order no.	Designation
1		1	2357404	Base plate valve 530-4, complete
2		1	2331173	Fitting DF-MM-G3/8-G1/4-530 bar-SSt
3		1	2331971	Fitting, SF-FM-G3/8-G1/4-530 bar-SSt
4		1	392307	Base plate valve 530-4
5		4	9900315	Hexagon socket cylinder head screw
6		1	9992616	Molykote® grease

13.4.1.1 BASE PLATE CLOSURE 530-4

Pos	K	Stk	Order no.	Designation
1		1	392096	Base Plate Closure 530-4
2		1	104376	Screw plug
3		1	392317	Filler part
4		1	9992831	Loctite® 542

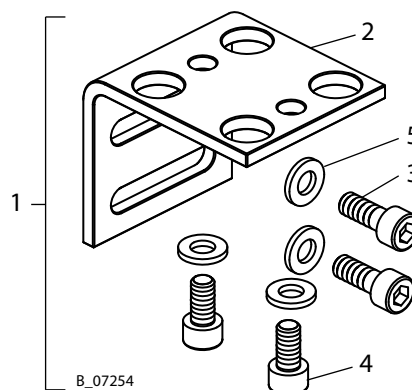
**13.4.2 VALVE COMBINATION BASE PLATE**

Pos	K	Stk	Order no.	Designation
1		1	377485	Valve combination base plate
2		1	2331173	Fitting DF-MM-G3/8-G1/4-530 bar-SSt
3		1	9992616	Molykote® grease

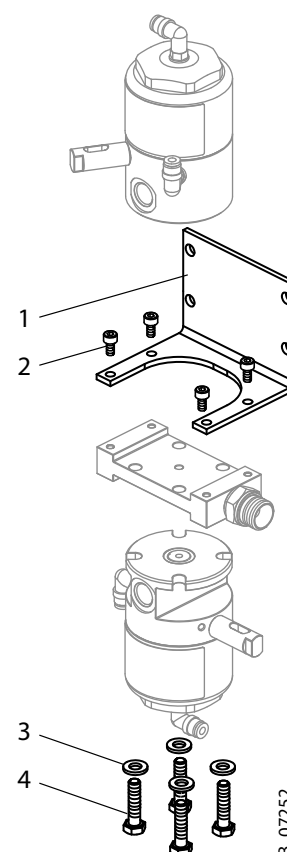


13.5 HOLDERS**13.5.1 BASIC MOUNTING BRACKET**

Pos	K	Stk	Order no.	Designation
1		1	392090	Valve mounting bracket 530-4, complete
2		1	392308	Valve mounting bracket 530-4
3		2	9900325	Hexagon socket cylinder head screw
4		2	9900346	Hexagon socket cylinder head screw
5		4	9920103	Washer

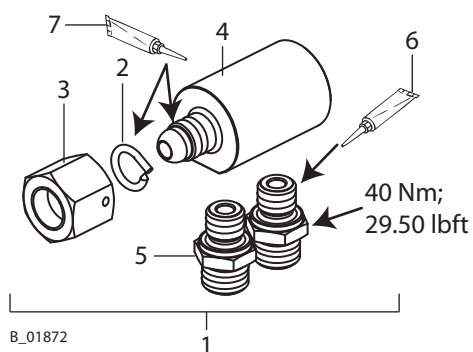
**13.5.2 VALVE COMBINATION MOUNTING BRACKET**

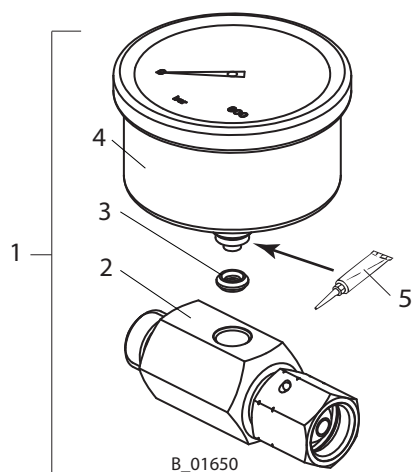
Pos	K	Stk	Order no.	Designation
1		1	377486	Valve combination wall mount
2		4	9900334	Hexagon socket cylinder head screw
3		4	9920103	Washer
4		4	9900224	Hexagon screw



13.6 CIRCULATION CONNECTION G 3/8"

Pos	K	Stk	Order no.	Designation
1		1	2357271	Circulation connection G3/8"
2		1	17492	Pin
3		1	2331298	Fitting nut G3/8
4		1	377421	Distributor
5		2	2331173	Fitting DF-MM-G3/8-G1/4-530 bar-SSt
6		1	9992528	Loctite® 270
7		1	9992616	Molykote® DX grease



13.7 PRESSURE GAUGE COMBINATIONS WITH FITTING G3/8"

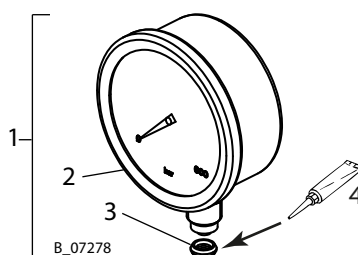
Screw in pressure gauge by hand until stop is reached, then turn 1/4 revolution with wrench. Thereafter continue turning the pressure gauge only to align. Do not turn back.

Pos	K	Stk	Designation	Product pressure:			
				Pressure gauge thread:			
				0–4 MPa 0–40 bar 0–580 psi	0–25 MPa 0–250 bar 0–3626 psi	0–40 MPa 0–400 bar 0–5800 psi	0–60 MPa 0–600 bar 0–8700 psi
				1/4"	1/4"	1/4"	1/4"
1		1	Pressure gauge combination	--	--	--	2368471
2		1	Pressure gauge fitting, G3/8"	2366494			
3	◆	1	Sealing ring	9970153			
4	◆	1	Product pressure gauge	9999271	9998300	3676150	9998145
5		1	Molykote® DX grease	9992616			

◆ = Wearing parts

13.8 RADIAL PRESSURE GAUGE G 1/4"

Screw in pressure gauge by hand until stop is reached, then turn 1/4 revolution with wrench. Thereafter continue turning the pressure gauge only to align. Do not turn back.



Pos	K	Stk	Designation	Product pressure:				
				Pressure gauge thread:				
				0–1 MPa 0–10 bar 0–145 psi	0–4 MPa 0–40 bar 0–580 psi	0–25 MPa 0–250 bar 0–3626 psi	0–40 MPa 0–400 bar 0–5800 psi	0–60 MPa 0–600 bar 0–8700 psi
				1/4"	1/4"	1/4"	1/4"	1/4"
1		1	Pressure gauge, complete	377180	377181	377182	377183	392072
2	◆	1	Product pressure gauge	9991937	3676861	3676969	3676863	9999059
3	◆	1	Sealing ring	9970153				
4		1	Molykote® DX grease	9992616				

◆ = Wearing parts

14 EU DECLARATION OF CONFORMITY

Herewith we declare that the supplied version of:

Paint valves and dosing valves with the type descriptions:

PV 530
DV 530

complies with the following guidelines:

2006/42/EC
2014/34/EU

Applied standards, in particular:

EN ISO 12100:2010
EN ISO 13732-1:2008
EN 1127-1:2011
EN ISO 80079-36:2016
EN ISO 80079-37:2016
EN ISO/IEC 80079-34:2011

Applied national technical standards and specifications, in particular:

TRGS 727

Identification:   II 2G Ex h IIB T6 Gb X

EU Declaration of Conformity

The EU Declaration of Conformity is enclosed with this product. If needed, further copies can be ordered through your WAGNER dealer by specifying the product name and serial number.

Order number: 2374681



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Version B

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