

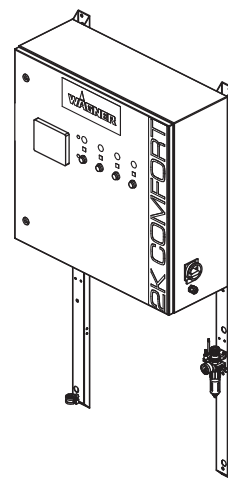
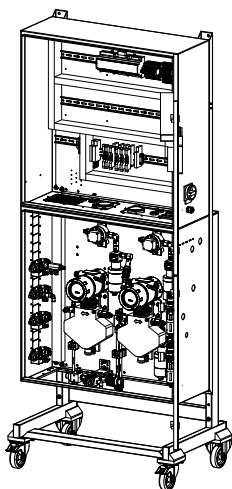


Spare parts catalog

2K COMFORT

Version 05/2017

Electronically Controlled  
Multi-component System  
for Lacquers



B\_05867

CE

CE Ex II 2 G IIB X

CE Ex II (2) G



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# 1 ABOUT THESE INSTRUCTIONS

## 1.1 PREFACE

This spare part catalog contains information about the structure and the assembly of the device and its accessories.

The spare parts catalog is part of the corresponding operating manual.

Always follow both documents when using the device.

This equipment can be dangerous, if it is not operated in accordance with the data in the operating manual and in the spare parts catalog.

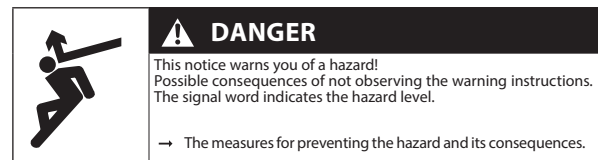
Observance of these documents is a prerequisite for the guarantee agreements.

## 1.2 WARNINGS, NOTICES AND SYMBOLS IN THESE INSTRUCTIONS

Warning instructions in this operating 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:

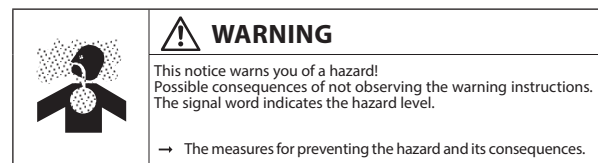
**Danger** - immediate risk of danger.

Non-observance will result in death or serious injury.



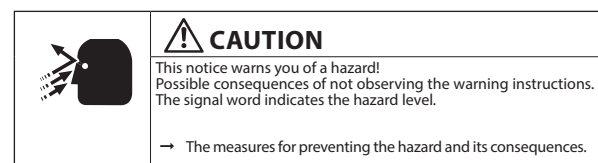
**Warning** - possible imminent danger.

Non-observance may result in death or serious injury.



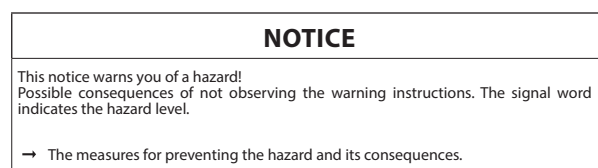
**Caution** - a possibly hazardous situation.

Non-observance may result in minor injury.



**Notice** - a possibly hazardous situation.

Non-observance may result in damage to property.



**Note** - provides information about particular characteristics and how to proceed.

### 1.3 LANGUAGES

The **2K COMFORT spare parts catalog** is available in the following languages:

Language	Order No.	Language	Order No.
German	2357085	Chinese	2366336
English	2357086		

→ **2K COMFORT XL Spare Parts Catalog:**

Language	Order No.
German	2363593
English	2363595

→ **2K COMFORT Operating Manual:**

Language	Order No.	Language	Order No.	Language	Order No.
German	2357060	French	2357062	Italian	2357064
English	2357061	Spanish	2357065		

→ **2K COMFORT Software Documentation:**

Language	Order No.
German	2357082
English	2357084

Additional languages on request or at: [www.wagner-group.com](http://www.wagner-group.com)

#### 1.3.1 OPERATING DOCUMENTS FOR INDIVIDUAL COMPONENTS

Operating manual **Paint valves (PV) and dosing valves (DV), GA (DN 2.6)**

Language	Order No.	Language	Order No.	Language	Order No.
German	2343270	English	2343275	Spanish	2343278
French	2343276	Italian	2343277		

Operating manual **Paint valves (PV) and dosing valves (DV), GA (DN 4)**

Language	Order No.	Language	Order No.	Language	Order No.
German	2336797	English	2336798	Spanish	2336801
French	2336799	Italian	2336800		

Operating manual **ADC-0301 / MPX-0403 (for stroke measurement)**

Language	Order No.	Language	Order No.	Language	Order No.
German	2382346	English	2382349	Spanish	2382352
French	2382350	Italian	2382351		

User information for **Coriolis Compact**

Language	Order No.	Language	Order No.	Language	Order No.
German	2359722	English	2359725	Spanish	2359730
French	2359727	Italian	2359728		

**Pressure regulator operating manual for lacquers T0170, T0180**

Language	Order No.	Language	Order No.	Language	Order No.
German	ZZB019GER	English	ZZB019ENG	Spanish	ZZB019SPA
French	ZZB019FRE	Italian	ZZB019ITA		

2K Data software documentation	
Language	Order No.
German	2382353
English	2382354
The 2K Data software is contained on the 2K SMART USB stick (see Chapter 1.4). Purpose: Transfer system settings, names, paint and flushing recipes and the I/O configuration via USB stick to the PC. View or change data on the PC.	

2K Archive software documentation	
Language	Order No.
German	2361954
English	2361978
The 2K Archive software is available as an accessory. Purpose: Log and archive consumption data and error messages on the PC.	

Additional languages on request or at: [www.wagner-group.com](http://www.wagner-group.com)

## 1.4 2K COMFORT USB STICK

All operating documents specified above, as well as the accessory set's assembly manuals (with the description of the accessory's function) are also available as pdf files on a USB stick. The USB stick is included in the system's scope of delivery.

The **Order No.** is: 2359808 (specify additionally the Serial No. of the system)

## 1.5 ABBREVIATIONS

Stk	Number of pieces
Pos	Position
K	Marking in the spare parts lists
Order No.	Order number
ET	Spare part
1K	One component
2K	Two components
3K	Three components
4K	Four components
DH	Double stroke
DN	Nominal diameter
HP	High pressure
HVLP	High Volume Low Pressure
AIS	Adaptive Injection System
AIS-B	AIS for component B
AIS-C	AIS for component C
AIS-D	AIS for component D

P1	Spray gun 1
P2	Spray gun 2
P3	Spray gun 3
P4	Spray gun 4
Q	Flow
cc	Cubic centimeters (cm <sup>3</sup> )
/K1	Fluid circuit 1 (in 2-circuit system)
/K2	Fluid circuit 2 (in 2-circuit system)

### Materials

SSt	Stainless steel
PE	Polyethylene
UHMWPE	Ultra-high molecular weight polyethylene
PTFE	Polytetrafluorethylene
TC	Carbide

## 1.6 TERMINOLOGY FOR THE PURPOSE OF THIS MANUAL



Cleaning	Manual cleaning of devices and device parts with cleaning agent
Flushing	Internal flushing of paint-wetted parts with flushing agent

### Staff 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 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 SPARE PARTS

	 <b>DANGER</b>
	<p><b>Incorrect maintenance/repair!</b> Danger to life and equipment damage.</p> <ul style="list-style-type: none"> <li>→ Only a WAGNER service center or a suitably trained person may carry out repairs and replace parts.</li> <li>→ Only mount and replace parts that are listed in the scope of delivery or in the "Spare Parts" chapter and that are assigned to the device.</li> <li>→ Before all work on the device and in the event of work interruptions:             <ul style="list-style-type: none"> <li>- Relieve pressure from spray guns and devices.</li> <li>- Secure spray guns against actuation.</li> <li>- Switch off the energy/compressed air supply.</li> <li>- Disconnect the control unit from the mains.</li> </ul> </li> <li>→ Observe the operating and service manual for all work.</li> </ul>

### 2.1 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.)

#### Serial number

The parameters used by WAGNER and the special properties of each 2K COMFORT system are documented upon delivery and stored in the WAGNER archive. If the customer wishes to modify the system or even prior to inspections, the technical customer service team must always be provided with the serial number of the system in question.

The serial number is located on the control cabinet. (For Ex systems, it is also located on the fluid section.)

#### Identification in spare parts lists.

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

- ◆ Wearing parts
  - Note:** These parts are not covered by warranty terms.
- Not part of standard equipment, available, however, as additional extra.

## 2.2 EXPANSION AND ACCESSORY SETS

The 2K system is based on a modular design and can also be upgraded at a later stage with only a few exceptions.

### Attention

Expansion and accessory sets, which need an input or an output from the controller, must be obtained from WAGNER. Possibly, an additional expansion module is necessary. The available inputs and outputs can be seen in the "2K COMFORT Connection Table" supplement. The supplement is delivered together with the system and must be adapted for each conversion.

### Expansion and accessory sets

<b>Order No.</b>	→ See operating manual (accessories chapter).
<b>Installation</b>	→ Only have specially trained staff or a WAGNER service center install them. The corresponding assembly manual is to be observed during the installation.
<b>Spare Parts</b>	→ The spare parts are listed in the relevant set's assembly manual. For the assembly manual's Order No., see Chapter 3.

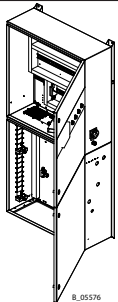
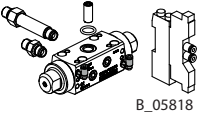
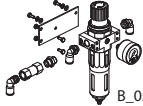
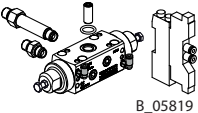



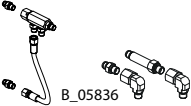

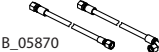
All assembly manuals as well as the "2K COMFORT Connection Table" are also available on a USB stick. The USB stick is included in the system's scope of delivery.

### 3 SYSTEM OVERVIEW

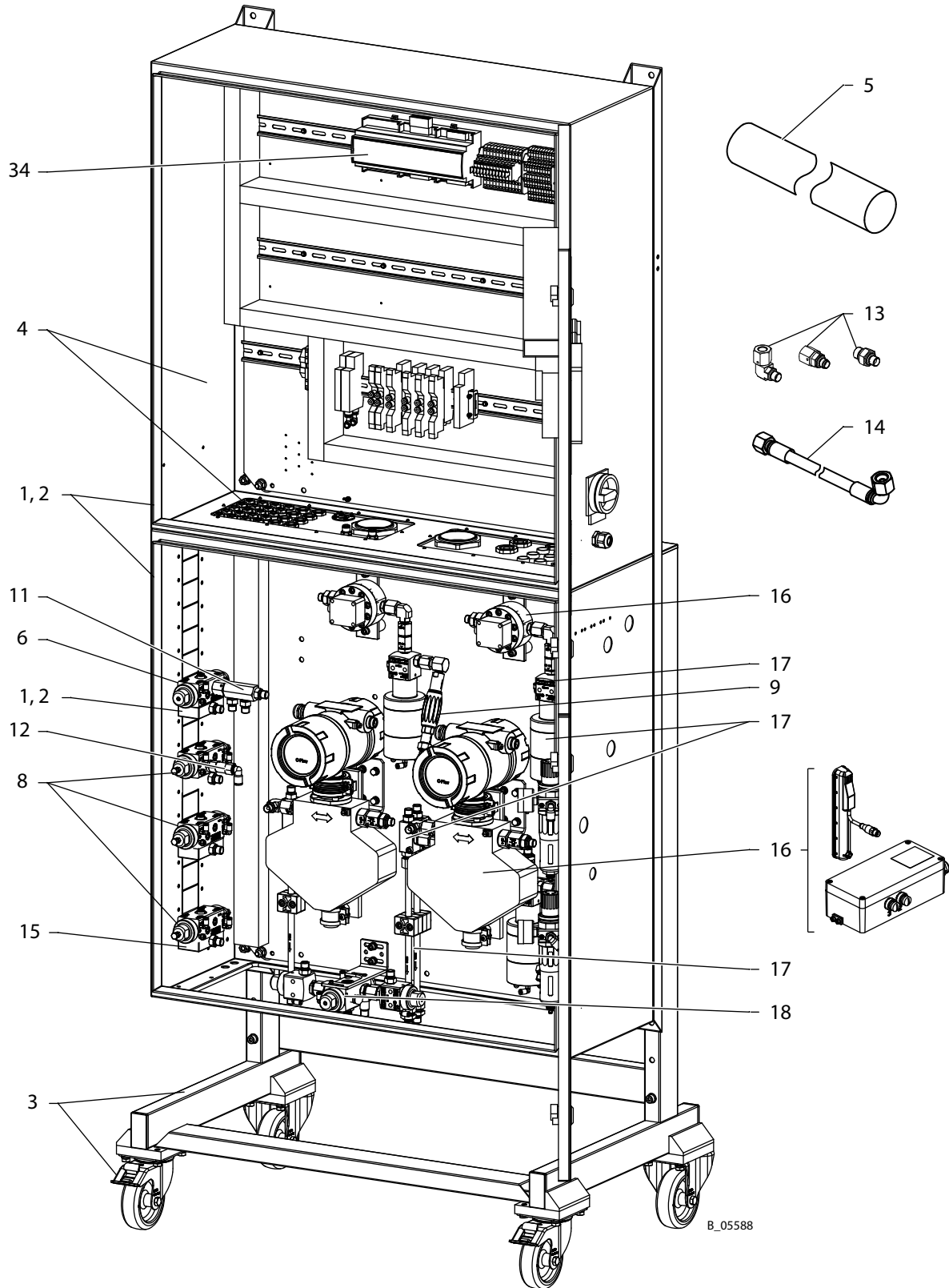
<b>Basic components</b>	→ The spare parts are listed in the spare parts catalog (as of Chapter 4).
<b>Expansion and accessory sets</b>	→ The spare parts are listed in the corresponding assembly manual.

The following table shows where spare parts can be found: in which chapter of this spare parts catalog and / or in which assembly manual (with the Order No. of the assembly manual).

All assembly manuals can also be found on the USB stick, which is delivered together with the system.

Overview of Spare Parts		Spare parts lists		Description	
Pos	Name	in chapter	in assembly manual *		
1	Base module, non-Ex	4.1		Control cabinet, fluid cabinet, air supply (non-Ex)	
2	Base module, Ex	4.2		Control cabinet, fluid cabinet, air supply (Ex)	
3	Frame / leveling feet / rollers	4.3		Frame / leveling feet / rollers	
4	Control cabinet	5		Control cabinet, fuses	
5	Connection set	9.5		Connection set of fluid cabinet – control cabinet	
6	Paint valves		2361081	Valve set paint/flush, high pressure DN 2.6	
				Valve set paint/flush, low pressure DN 4	
7	Air flushing			Supplement for air flushing (A component)	
8	Dosing valves		2364031	Dosing/flushing valve set DN 2.6, 400 bar TC, non-Ex	
				Dosing/flushing valve set DN 2.6, 400 bar SSt, non-Ex	
		9.2		Additionally for dosing, Ex	
9	Product filter	6.1		Product filter	
10	Product pressure gauge	6.2		Product pressure gauge	
11	Flushing agent distributor	6.4		Flushing agent distributor	
12	Circulation connection	6.3		Circulation connection	
13	Fittings	6.7		Fittings	
14	Product hoses	6.6		Product hoses	

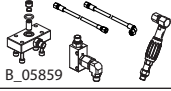
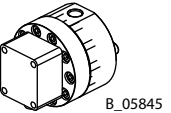
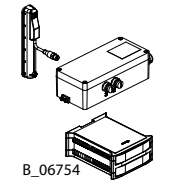
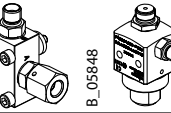
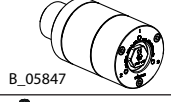
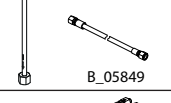
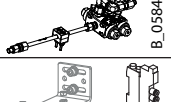
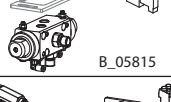
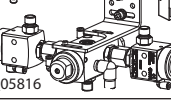

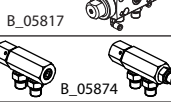
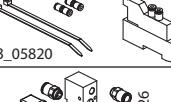
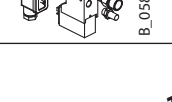
\* The assembly manuals are located on the supplied USB stick.



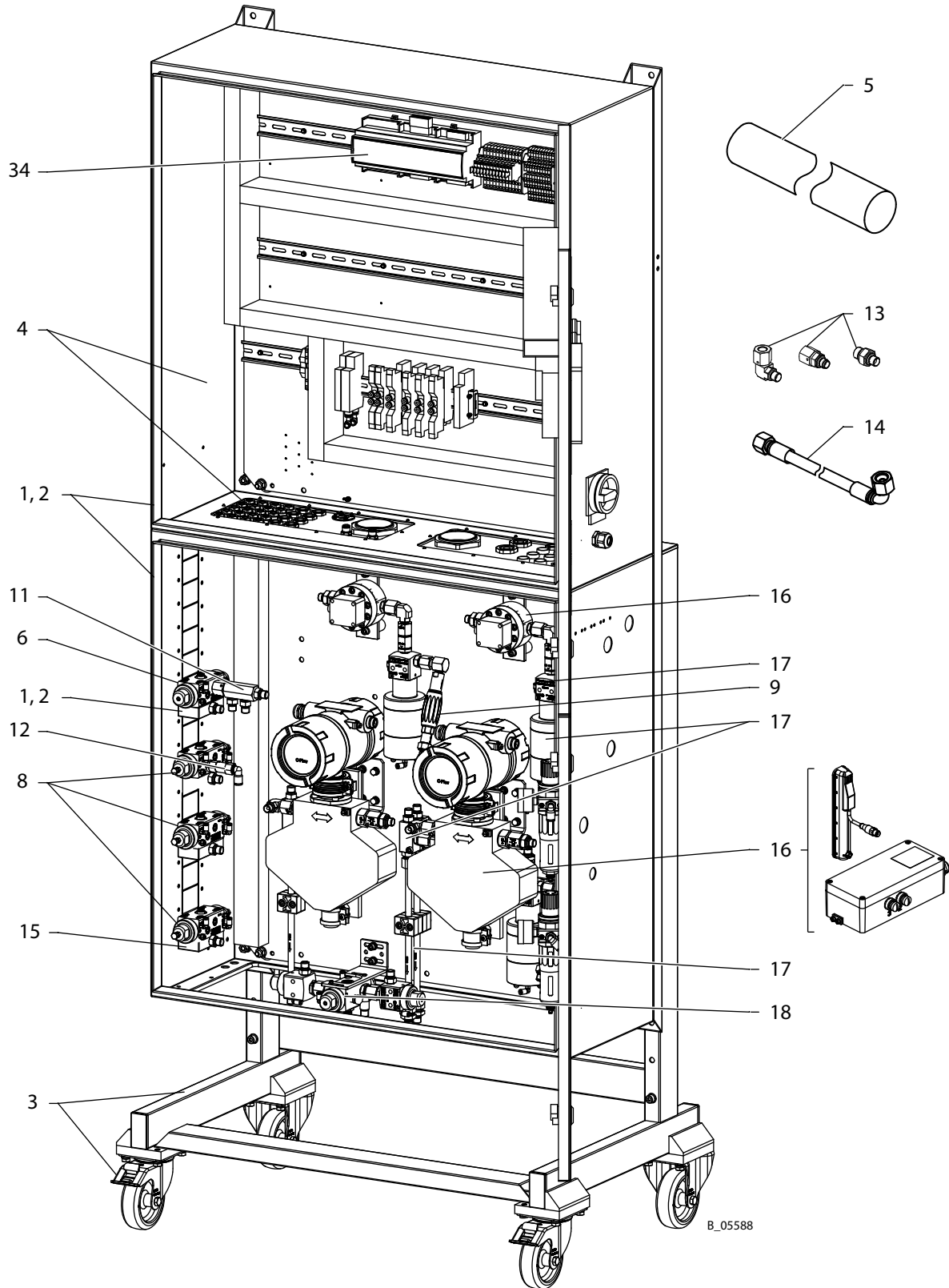
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SPARE PARTS CATALOG



Overview of Spare Parts		Spare parts lists			
Pos	Name	in chapter	in assembly manual *	Description	
15	3K / 4K installation material	9.1		3K / 4K installation material 	
16	<b>Flow meters</b>	Gear flow meters	7.1	Gear flow meters 	
		Coriolis	7.2	Coriolis flow meters	
	<b>Stroke measuring</b>	MPX-0403		2385805	MPX-0403 installation 
		ADC-0301, stroke sensors, pressure switch Spare pump parts			see operating manual for "ADC-0301 / MPX-0403" (For Order No., see Chapter 1.3.1)
	A/B/C/D conversion set stroke measuring			A/B/C/D flow meter to stroke measurement	
17	Mixing / AIS	8.1		Mixing block 	
		8.2 / 8.3		Mixing head cycle	
		8.4		AIS dosing system 	
		8.5		Mixing tubes 	
		8.6		Mixing hoses	
			2345311		External mixer 
18	Splitter valve		2364874	Splitter valve, DN 2.6	
				Splitter valve, DN 4 	
			2364984	Splitter valve, DN 2.6 with flushing connection	
				Splitter valve, DN 4 with flushing connection 	
			2364917	Splitter valve: 2 to 3-4, DN 2.6	
			Splitter valve: 2 to 3-4, DN 4 		
		6.5		Splitter valve without valves 	
19	Control of gun flush box		2364472	Control of gun flush box 	
20	Automatic atomizer air system			Automatic atomizer air system 	

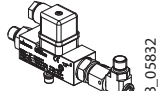
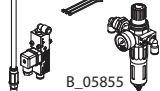


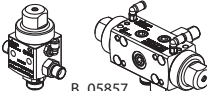
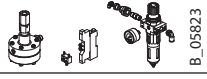






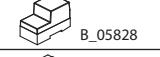
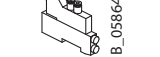
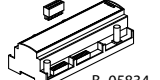
\* The assembly manuals are located on the supplied USB stick.



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SPARE PARTS CATALOG



Overview of Spare Parts		Spare parts lists			
Pos	Name	in chapter	in assembly manual *	Description	
21	Gun monitoring			Flow monitor lacquer, non-Ex	 B_05832
				Flow monitor lacquer, Ex	
				Gun monitoring, AirSpray + AirCoat	 B_05855
				Gun monitoring for automatic gun (pressure switch)	 B_05856
22	Remote control, Ex		2344542	Remote control	 B_05821
				Extension cable	
23	Dump valve			Dump valve, not flushable	 B_05857
				Dump valve, flushable	
				Dump valve for waste separation (flushable)	
24	Product pressure regulator			Product pressure regulator 8 bar, manual	 B_05823
				Product pressure regulator, digital (controllable)	
25	Air bubbles monitoring			Non-Ex	 B_05825
				Ex	
26	Automatic electrostatic system			Automatic electrostatic system for GM 5000 manual gun	 B_05862
				Automatic electrostatic system for automatic gun	
27	Alarm horn			Ex alarm horn, spray booth	 B_5827
28	External release, pneumatic			External release, pneumatic	 B_05861
29	Automatic dosing system	9.3		Automatic dosing system	
30	PC data archiving			See software documentation for "2K Archive" (For Order No., see Chapter 1.3.1)	 B_05860
31	Robot communication	9.4		Robot communication	 B_05863
32	Profibus communication			Profibus module	 B_05828
33	Booster pump			Control for booster pump	 B_05864
34	Uni CAN I/O module	5.3		I/O connection extension	 B_05834

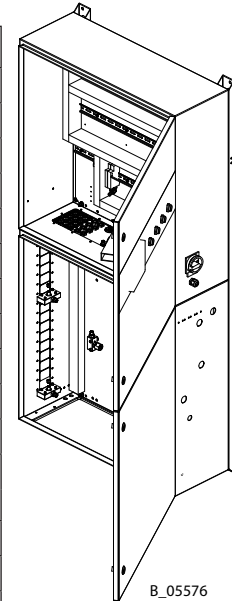
\* The assembly manuals are located on the supplied USB stick.

## 4 BASE MODULE

### 4.1 BASE MODULE, NON-EX

Spare parts list for base module, non-Ex

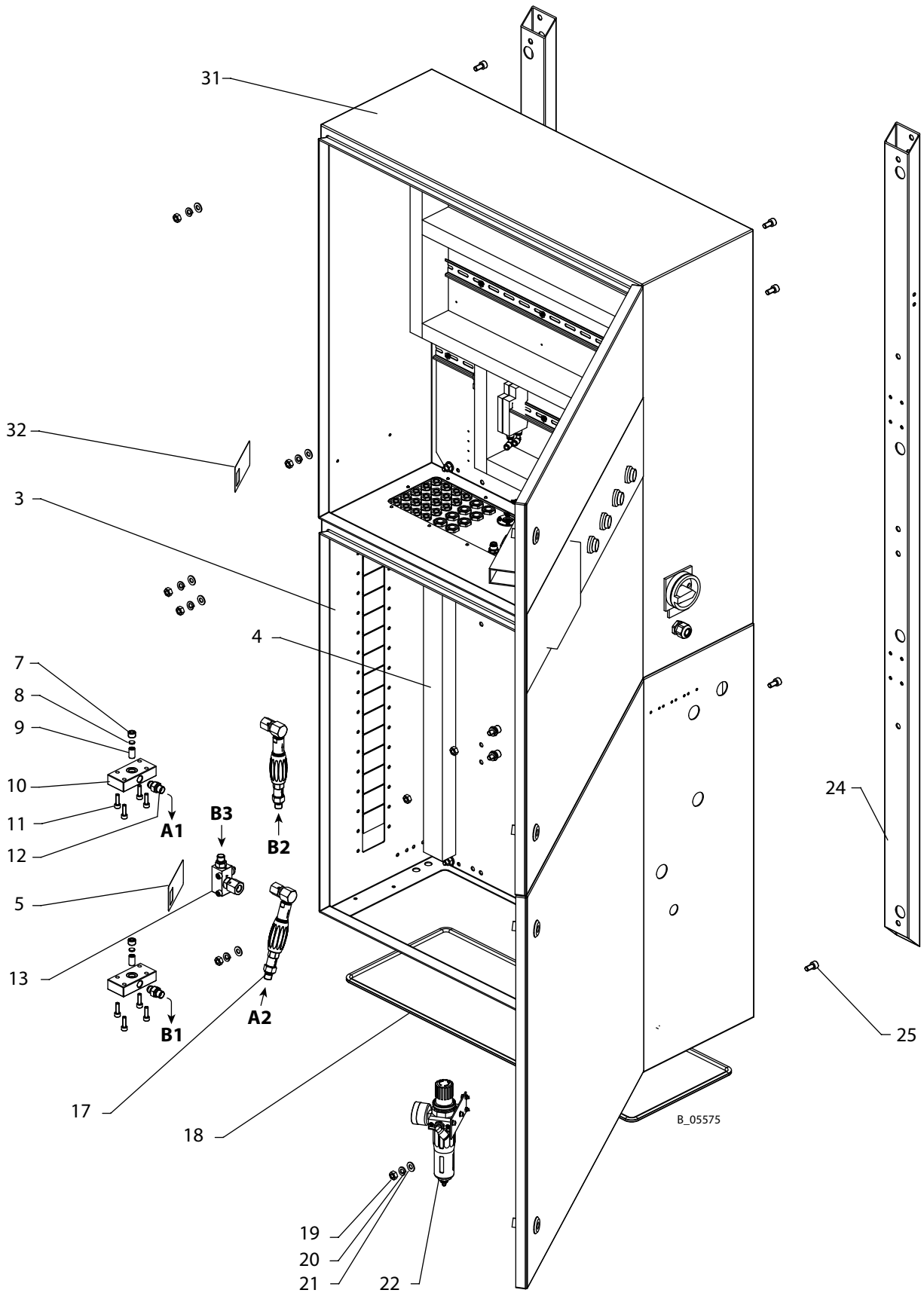
Pos	K	Stk	Order No.	Designation
1			--	Base module, non-Ex
3		1	2355417	Fluid cabinet 800x800x300
4		2	2357998	Cable conduit
5		1	--	Type plate, fluid section
7		2	104376	Screw plug
8		2	384323	Plug
9		2	2356333	Filler part for end plate
10		2	2356015	End plate
11		8	9900312	Hexagon socket cap screw, M6x20
12		2	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
13		1	--	Mixing block set. For details, see Chapters 8.1 and 9.1
17		2	2329026	Inline filter, HL DN6-PN530-G1/4"-SSt For details, see Chapter 6.1
18		2 m	9998066	Edge protector
19		8	9910107	Hexagon nut, M8
20		8	9921501	Lock washer, A8
21		8	9920102	Washer, A8.4
22		1	--	Air supply, non-Ex For details, see Chapter 4.1.1
24		2	2355797	Wall mount, 2K COMFORT
25		8	9900326	Hexagon socket head cap screws



				from - to	
27	◆	1	2333791	HP hose, DN6-PN325 FEP W-G 0.67 m	A1-A2
28	◆	1	2357479	HP hose, DN6-PN325 FEP W-G 0.97 m	B1-B2
29	◆	1	2340038	HP hose, DN6-PN325 FEP G-G 0.505m	B flow meter, B3
31		1	--	Control cabinet, 2K COMFORT. For details, see Chapter 5	
32		1	--	Type plate, control cabinet	
		1	2359808	USB Stick for 2K COMFORT → Specify the system's article and serial number	

◆ = Wearing parts

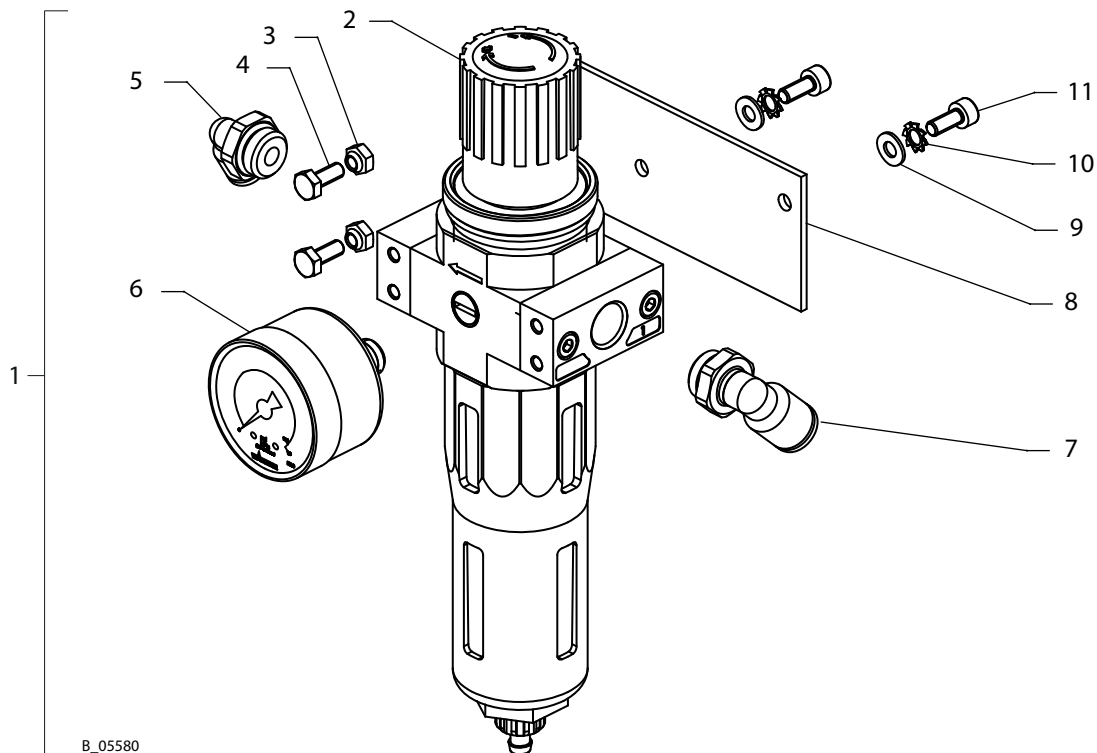




#### 4.1.1 AIR SUPPLY, NON-EX

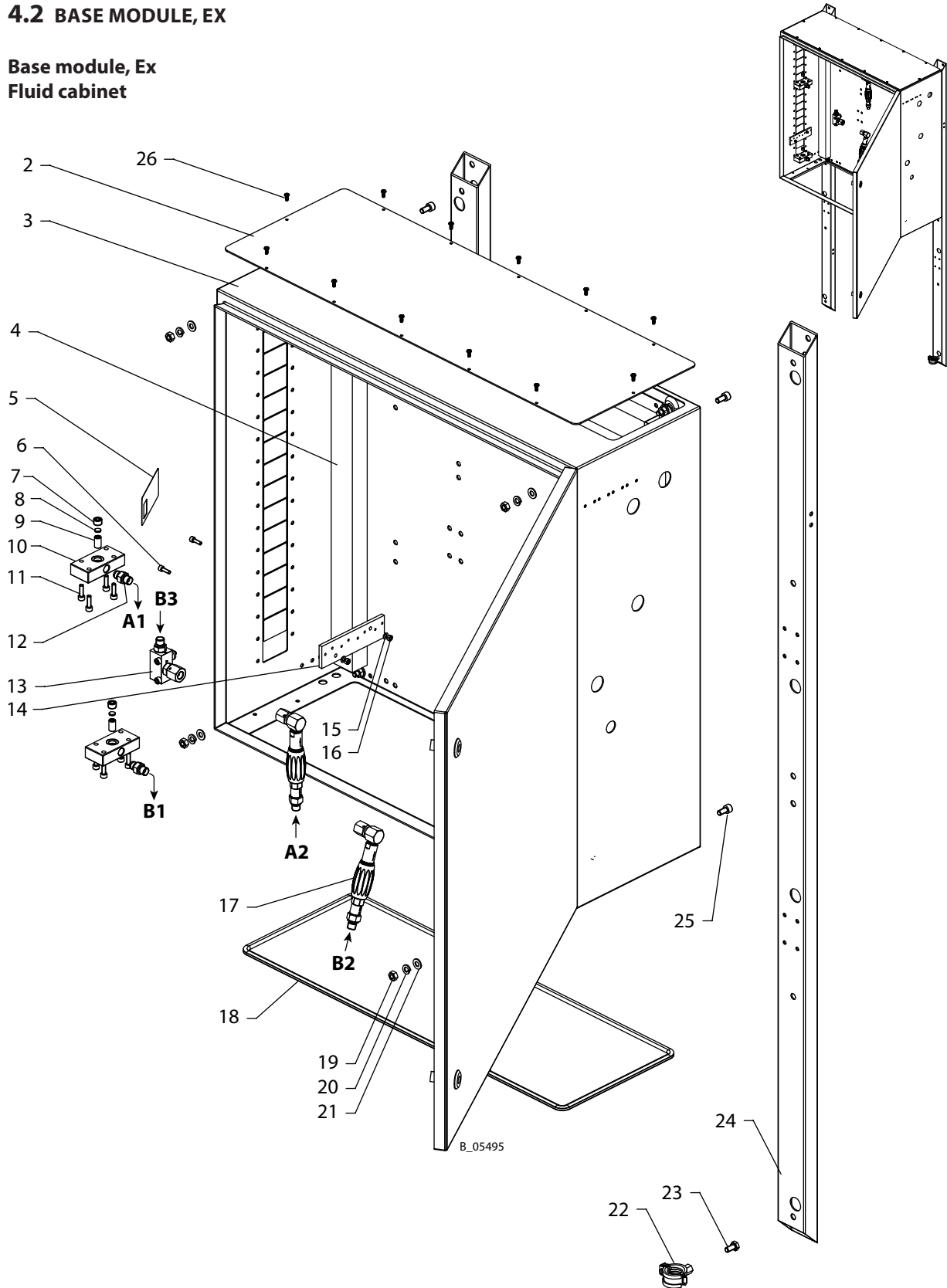
Pos K	Stk	Order No.	Designation
1	1	--	Air supply, non-Ex
2	◆	2331950	Filter control valve
3	2	9913053	Insert nut
4	2	9900152	Hexagon screw
5	1	9998250	Male stud elbow, 6-1/4 Ex
6	◆	9998677	Pressure gauge, 0–10 bar RF40 (d40)
7	1	9998253	Male stud elbow, 8-1/4 Ex
8	1	2355857	Mounting bracket for pressure regulator
9	2	9920104	Washer, A4.3
10	2	9922101	Serrated washer, externally toothed
11	2	3067610	Zinc-plated socket cap screw, hexagon socket

◆ = Wearing parts

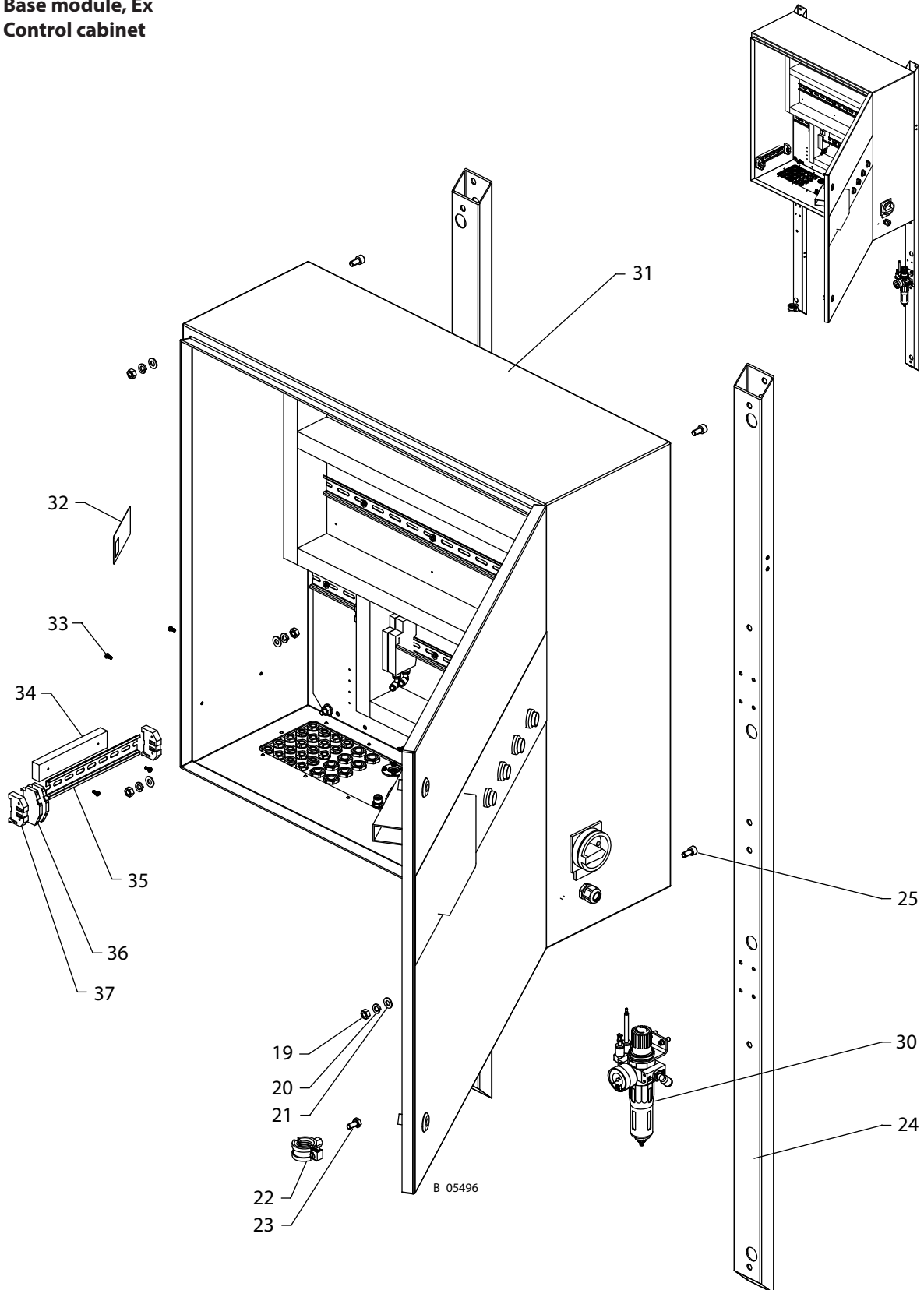


### 4.2 BASE MODULE, EX

Base module, Ex  
Fluid cabinet



**Base module, Ex  
Control cabinet**



## SPARE PARTS CATALOG



Spare parts list for base module, Ex

Pos K	Stk	Order No.	Designation
1	1	--	Base module, Ex
2	1	2356826	Fluid cabinet cover, Ex
3	1	2355417	Fluid cabinet 800x800x300
4	3	2357998	Cable conduit
5	1	--	Type plate fluid section, Ex
6	2	9900307	Hexagon socket cylinder head screw
7	2	104376	Screw plug
8	2	384323	Plug
9	2	2356333	Filler part for end plate
10	2	2356015	End plate
11	8	9900312	Hexagon socket cap screw, M6x20
12	2	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
13	1	--	Mixing block set. For details, see Chapters 8.1 and 9.1
14	1	384445	Plate Ex-valve
15	2	9920101	Washer, B5.3
16	2	9910106	Hexagon nut, M5
17	2	2329026	Inline filter, HL DN6-PN530-G1/4"-SSt For details, see Chapter 6.1
18	2 m	9998066	Edge protector
19	8	9910107	Hexagon nut, M8
20	8	9921501	Lock washer, A8
21	8	9920102	Washer, A8.4
22	2	9998909	Pipe clamp
23	2	9900221	Hexagon screw without shaft
24	4	2355797	Wall mount, 2K COMFORT
25	8	9900326	Hexagon socket head cap screws
26	12	9907220	Hexagon drilling screw

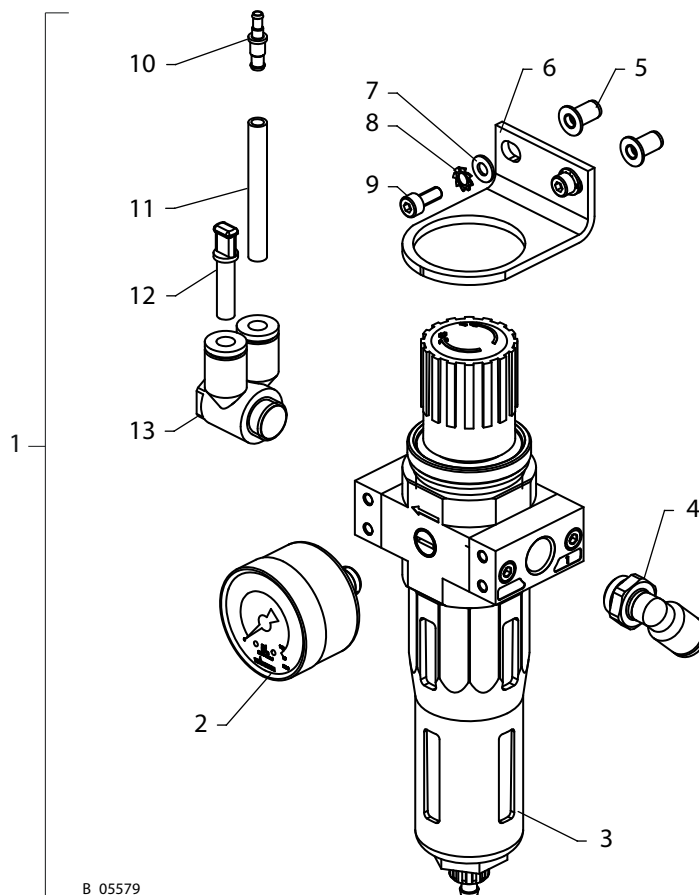
				from - to	
27	◆	1	2333791	HP hose, DN6-PN325 FEP W-G 0.67 m	A1-A2
28	◆	1	2357479	HP hose, DN6-PN325 FEP W-G 0.97 m	B1-B2
29	◆	1	2333779	HP hose, DN6-PN325 FEP W-G 0.52 m	B flow meter B3
30		1	--	Compressed air supply 1/4" Ex. For details, see Chapter 4.2.1.	
31		1	--	Control cabinet, 2K COMFORT. For details, see Chapter 5	
32		1	--	Type plate, Ex control cabinet	
33		16	9902225	Recessed head fillister head self-tapping screw F, H form	
34		1	--	Insulating plate	
35		m	9950344	T-rail	
36		2	3111035	Ground lead terminal 4	
37		2	9955327	Bracket	
		1	2359808	USB Stick 2K COMFORT → Specify the system's article and serial number	

◆ = Wearing parts

**4.2.1 AIR SUPPLY, EX**

Pos K	Stk	Order No.	Designation
1	1	--	Compressed air supply 1/4", Ex
2	◆	9998677	Pressure gauge, 0-10 bar RF40 (d40)
3	◆	2331950	Filter control valve
4	1	9998253	Male stud elbow 8-1/4, Ex
5	2	9935057	Blind rivet nut, M4
6	1	2331938	Mounting bracket
7	2	9920104	Washer, A4.3
8	2	9922101	Serrated washer, externally toothed
9	2	3067610	Zinc-plated socket cap screw, hexagon socket
10	1	9998160	Hose connector
11	m	9982079	Hose, black PEN 6/4
12	1	9998926	Plug, D6
13	1	9999384	Y swivel fitting

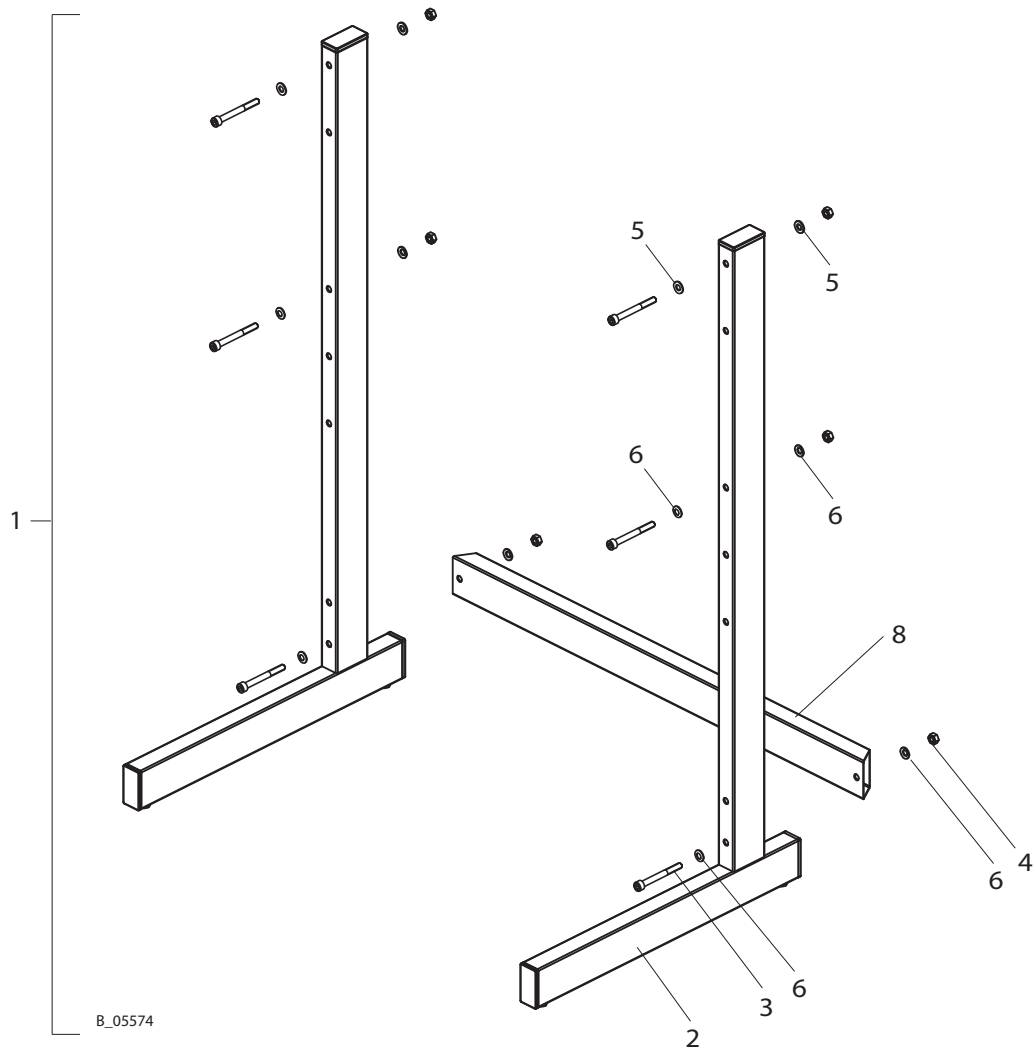
◆ = Wearing parts



B\_05579

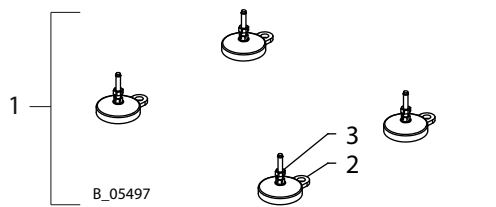
**4.3 FRAME, LEVELING FEET, ROLLERS**

**4.3.1 FRAME SET, 800**



Pos K	Stk	Order No.	Description
1	1	2360139	Frame set, 800
2	2	389349	Leg construction, complete
3	6	9900324	Hexagon socket cylinder head screw
4	6	9910107	Hexagon nut
5	4	9920102	Washer
6	8	3155404	Contact washer, M8
8	1	384490	Connecting tube

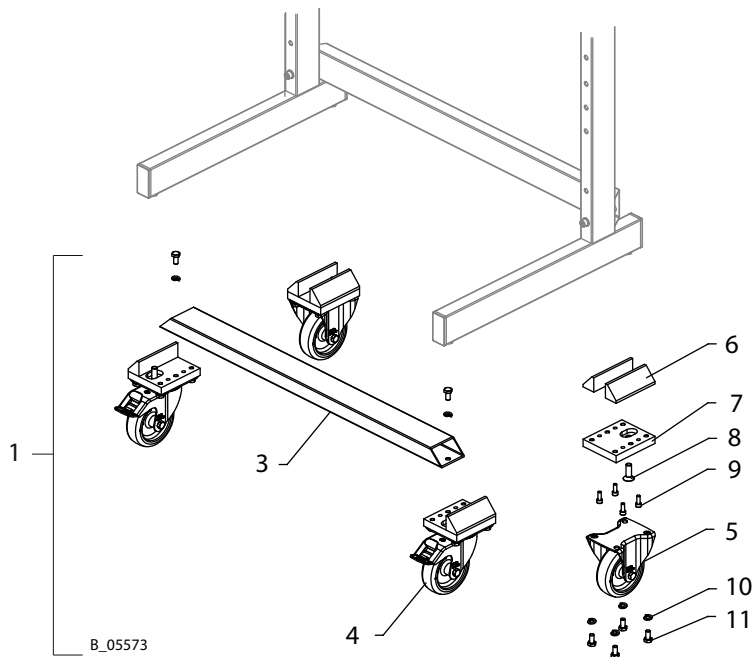
**4.3.2 LEVELING FEET**



Pos	K	Stk	Designation	Order No.
1		1	Leveling feet set	2365904
2		4	Leveling feet with fixing attachment	2357553
3		4	Hexagon nut	9910105

◆ = Wearing parts

**4.3.3 HEAVY DUTY CASTERS**

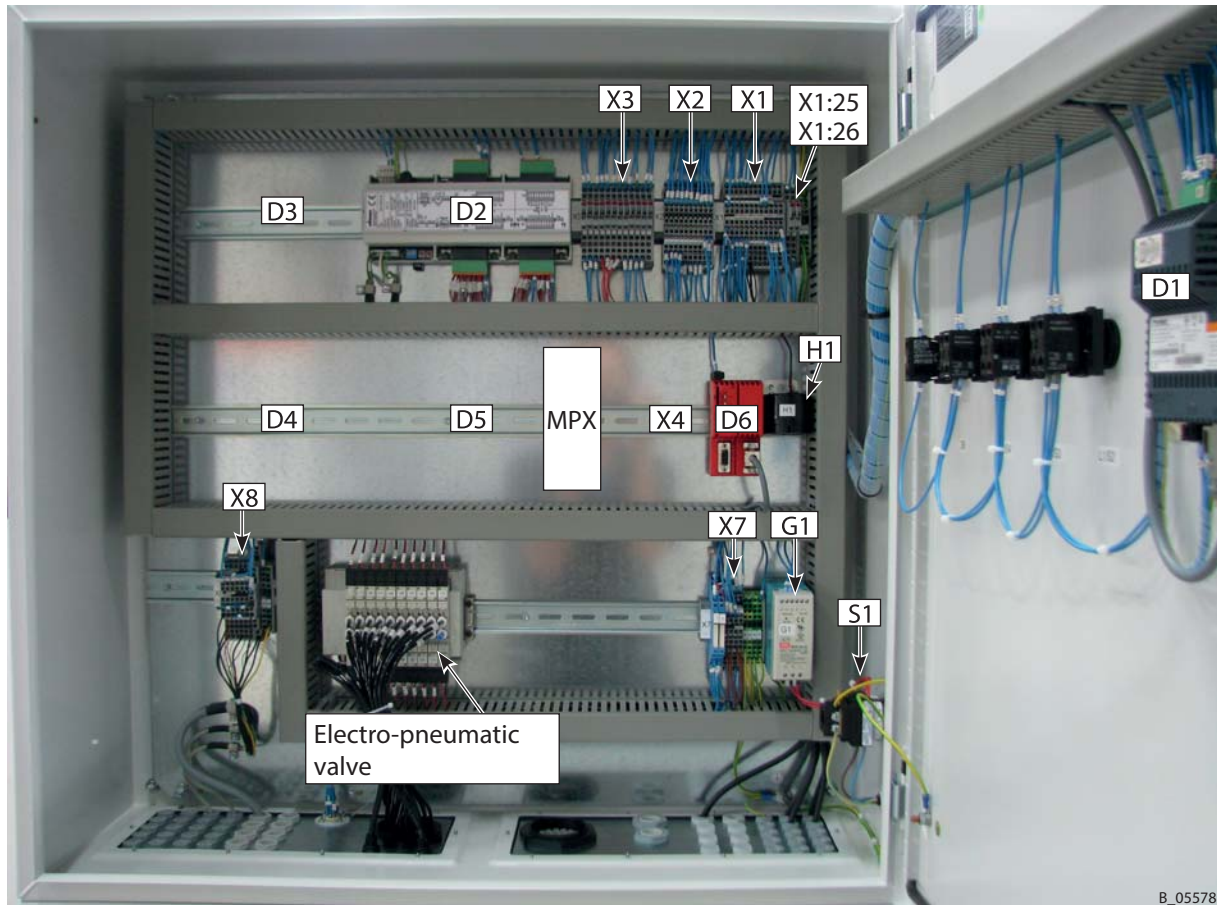


Pos	K	Stk	Designation	Order No.
1		1	Heavy duty castors set	2360140
3		1	Connecting tube rollers	2356542
4	◆	2	Swivel castor with clamp	9999573
5	◆	2	Fixed castor	9999574
6		6	Angle bracket	2355951
7		4	Connecting plate	2355953
8		4	Hexagon socket countersunk head screw	2352435
9		12	Hexagon socket cap screw, M6x16	9900325
10		19	Lock washer, A8	9921501
11		19	Hexagon screw without shaft	9900221

◆ = Wearing parts





## 5 CONTROL CABINET



B\_05578

	Description
X1	Terminal block voltage supply, fuses and grounding terminals
X2	Terminal block inputs
X3	Terminal block outputs
X4	Robot communication (via relays)
X7	Grounding terminals
X8	Terminal block inputs, Grounding terminals

	Description
D1	Touch panel
D2	Uni CAN I/O module (extension module)
D3	
D4	
D5	
D6	Gateway / robot communication via bus
MPX	Multiplexer, MPX-0403 (stroke measurement)
H1	Alarm horn
G1	Switching power supply
S1	Main switch

	 <b>WARNING</b>
	<p><b>Electric shock hazard inside the control unit!</b> Danger to life from electric shock.</p> <p>→ May only be installed/maintained by skilled electricians or under their supervision. → Operation according to the safety regulations, fire protection and electrotechnical rules. → Must be de-energized before work is commenced on active parts.</p>

Control cabinet spare parts list			Standard	2-circuit	
Pos	K	Order No.	Designation	Stk	Stk
1		--	Control cabinet 800X800X300	1	
2		9956051	Alarm horn	1	
3		--	Uni CAN I/O module. For details, see Chapter 5.3.	1-4	
4		--	T-rail	5	
6		9943143	End plate, left	1	
7		9943142	Supply and vent block	1	
8		3661507	Angular plug connection	2	
9		9943144	End bloc right	1	
10		9955720	Locknut	10	
11		3156862	Screw plug	10	
12		9998614	Straight hermetic plug connection	2	
13		2355297	Cable entry plate including threaded ring	2	
14		3156864	Dummy plug, BLK-GL-M 25x1.5 SKINDICHT®	2	
15		3156834	Lock nut, M25x1.5	2	
16		3052388	Plug, GPN300	6	
17		3156861	Dummy plug	35	
18		3156831	Counter nut, M12x1.5	35	
19		9955721	Locknut	1	
20		9907220	Hexagon drilling screw	42	
21		9920104	Washer, A4.3	5	
22		2355828 *	Proface 5.7" display (touch panel)	1	
23	◆	9955953	Protective film for Proface 5.7" display	1	
24		9955955	Main switch red-yellow with emergency stop function	1	
		9956014	Main switch black without emergency stop function		
25		2337671	Power supply	1	
26		9956161	Coupling relay	1	2

◆ = Wearing parts

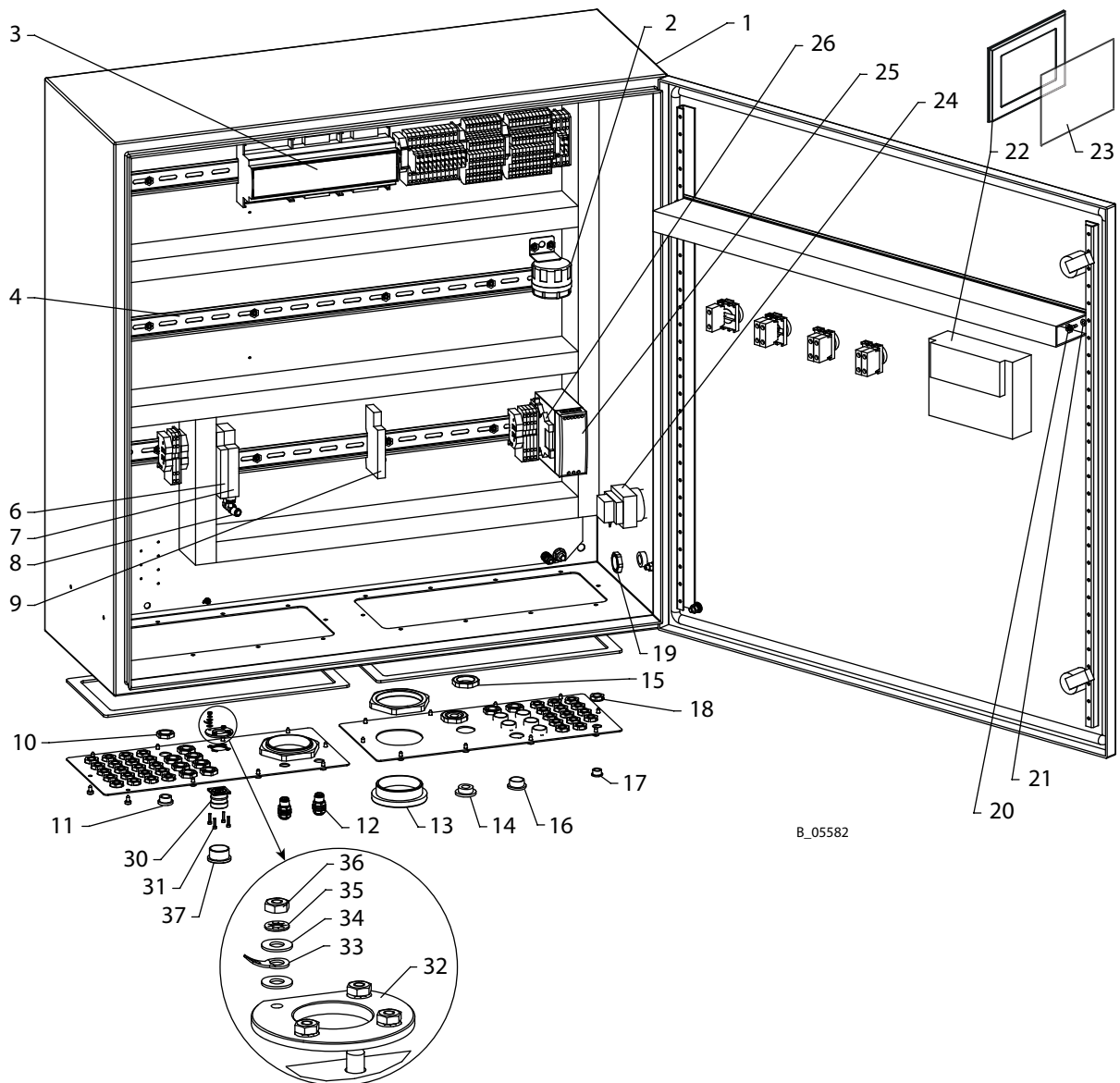
\* The touch panel works only with installed and suitable controller software! Please contact WAGNER for these spare parts and communicate the necessary software version and the serial number of the 2K system.

**SPARE PARTS CATALOG**



Control cabinet spare parts list			Standard	2-circuit	
Pos	K	Order No.	Designation	Stk	Stk
30	--		Socket	1	2
31		9900397	Hexagon socket cylinder head screw	5	10
32	--		Insulating plate	1	2
33		9952922	Solder lug, 3.2	2	4
34		9920114	Washer	6	10
35		9922020	Lock washer, toothed inside	5	10
36		9910122	Hexagon nut	6	12
37		2340069	Protective cap	1	2

◆ = Wearing parts

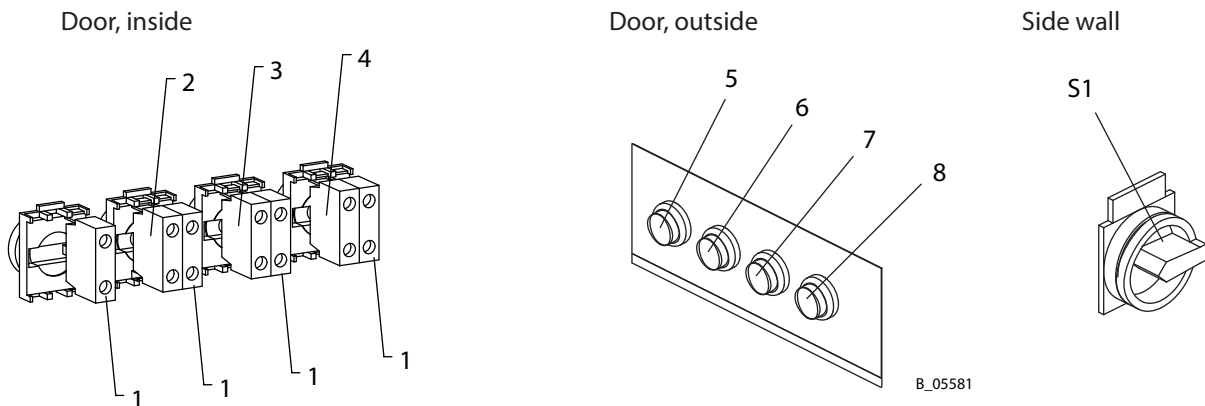


B\_05582

**5.1 PUSH-BUTTONS AND MAIN SWITCH**

Pos K	Designation	Order No.	Standard system	2-circuit system
			Stk	Stk
1	Contact element, 1 S	3155318	4	8
2	LED element, white	3155320	1	2
3	LED element, red	3155321	1	2
4	LED element, green	3155322	1	2
5 ◆	Illuminated push button, green	9956027	1	2
6 ◆	Illuminated push button, red	9956028	1	2
7 ◆	Illuminated push button, blue	2338262	1	2
8 ◆	Illuminated push button, yellow	2338264	1	2
S1 ◆	Main switch red-yellow with emergency stop function	9955955	1	1
	Main switch black without emergency stop function	9956014		

◆ = Wearing parts

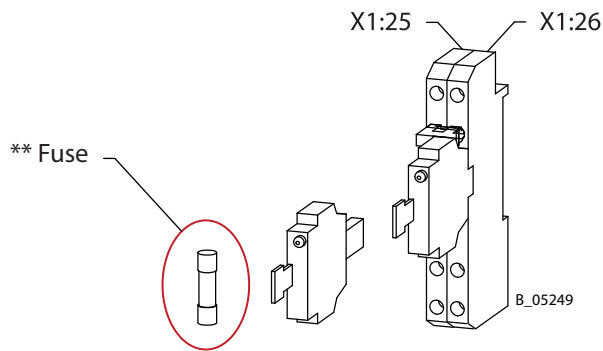


**5.1.1 ELECTRICAL CONNECTION CABLE FOR USA**

Pos K	Stk	Order No.	Designation
1	1	392061	Electrical connection cable for USA

	<b>WARNING</b>
	<p><b>Electric shock hazard inside the control unit!</b>                  Danger to life from electric shock.</p> <p>→ May only be installed/maintained by skilled electricians or under their supervision.                  → Operation according to the safety regulations, fire protection and electrotechnical rules.                  → Must be de-energized before work is commenced on active parts.</p>

**5.2 FUSES**



Pos	K	Stk	Order No.	Designation
X1:25 – X1:26		2	9951116	2 ampere slow-acting fuse **
X3:1 – X3:10		10	2359953	Fast-acting fuse, 0.2 AF **
X3:11 – X3:12		2	2359958	Fast-acting fuse, 0.032 AF **

◆ = Wearing parts

**Fuses CAN I/O modules:** see Chapter 5.3



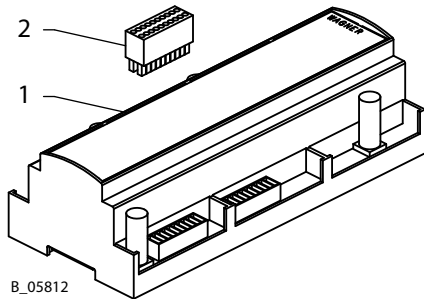
**5.3 CAN I/O MODULE**

**5.3.1 FROM SERIAL NUMBER 100**

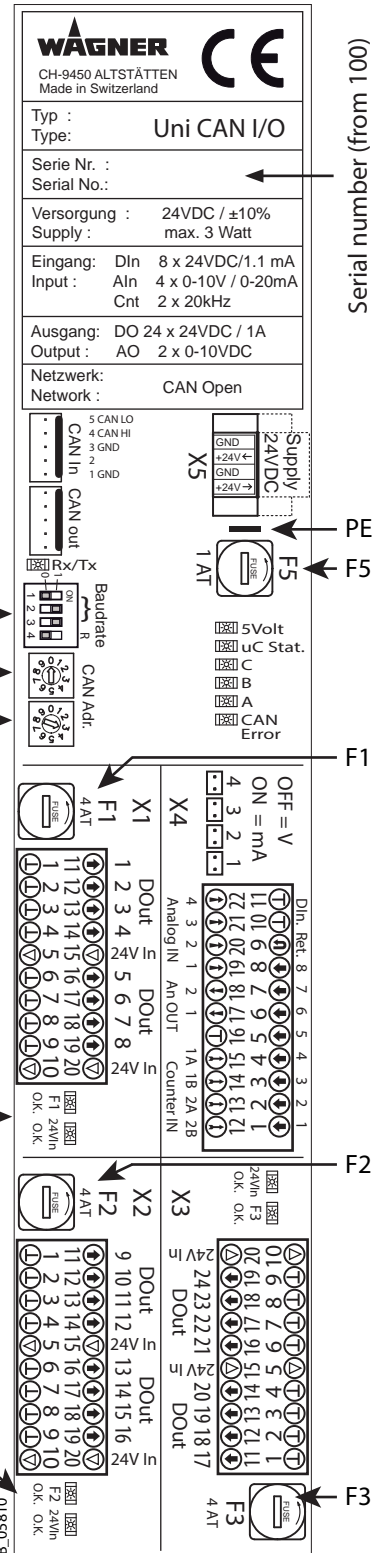
CAN I/O module spare parts list from serial number 100

Pos K	Stk	Order No.	Designation
1	1	2362132	Uni CAN I/O module
2	4	2355193	Plug connectors, circuit board 20pol DFMC
F1 F2 F3	3	2355496	Slow-acting fuse, 4.0 AT
F5	1	9951117	Slow-acting fuse, 1.0 AT

**Note:** The "CAN I/O extension module set": Order No. 2360730 is required to install an additional I/O module (including cable kit).



Accept settings from the module to be replaced



**LED for voltage supply**

Fuse	Signals	Lamp	Voltage supply	
			before fuse	after fuse
F1	DOut 1-8	F1		X
		24VIn	X	
F2	DOut 9-16	F2		X
		24VIn	X	
F3	DOut 17-24	F3		X
		24VIn	X	
F5	Operating voltage	5 volts		X

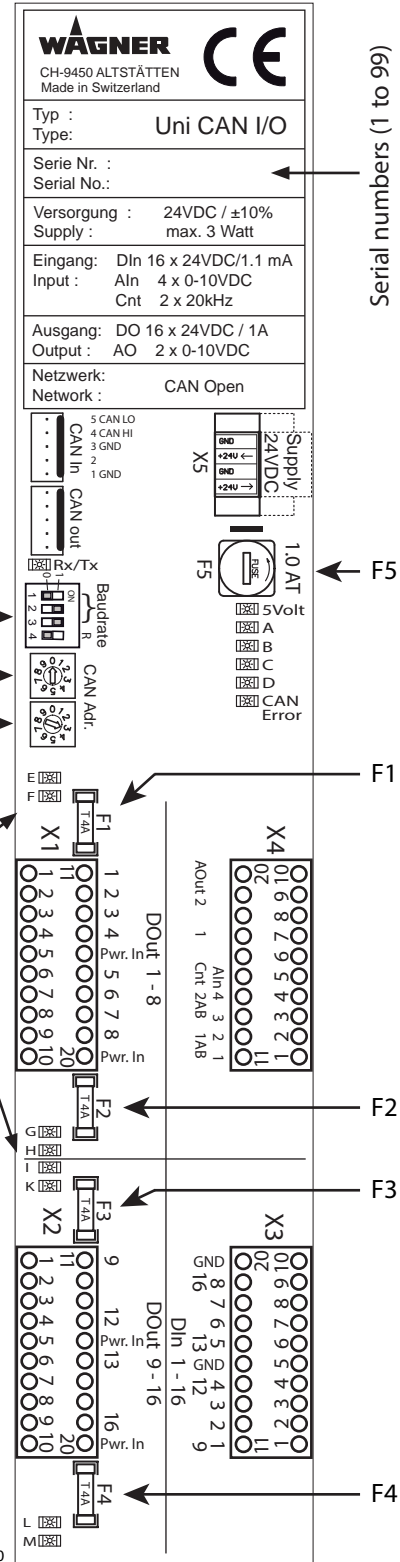
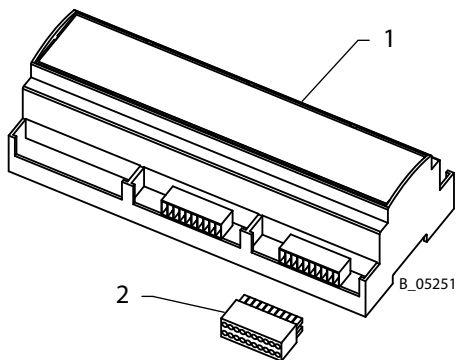


**5.3.2 SERIAL NUMBERS 1 TO 99**

CAN I/O module spare parts list with serial numbers 1 to 99

Pos	K	Stk	Order No.	Designation
1		1	2355296	Uni CAN I/O module
2		4	2355193	Plug connectors, circuit board 20pol DFMC
F1		4	2355145	Fuse SMD, UMT250, slow-acting 4.0 AT
F2				
F3				
F4				
F5		1	9951117	Slow-acting fuse, 1.0 AT

**Note:** The "CAN I/O extension module set": Order No. 2360730 is required to install an additional I/O module (including cable kit).



**LED for voltage supply**

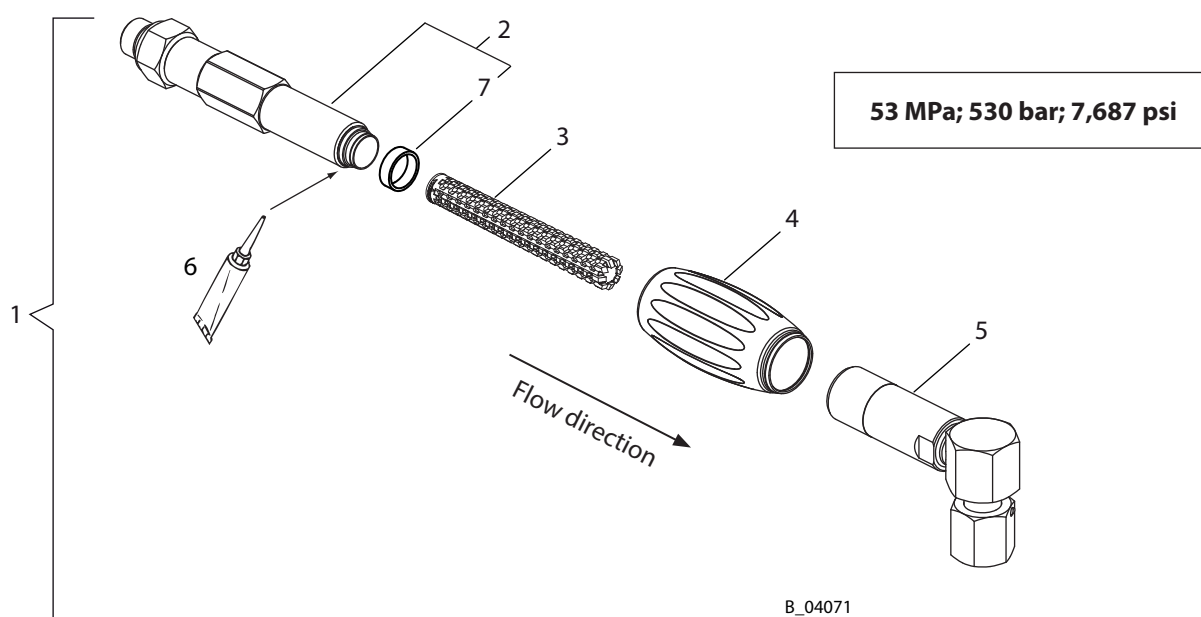
Fuse	Signals	Lamp	Voltage supply	
			before fuse	after fuse
F1	DOut 1-4	E		X
		f	X	
F2	DOut 5-8	G	X	
		H		X
F3	DOut 9-12	I		X
		K	X	
F4	DOut 13-16	L	X	
		M		X
F5	Operating voltage	5 volts		X

Serial numbers (1 to 99)

B\_05250

## 6 PRODUCT INLET, HOSES, FITTINGS

### 6.1 PRODUCT FILTER



Spare parts list for angled inline filter 530 bar

Pos	K	Stk	Order No.	Designation
1		1	2329026	Inline filter, HL DN6-PN530-G1/4"-SSt
2		1	2326045	Filter inlet housing, pre-assembled
3	◆	1	--	Filter insert, yellow (middle), 100 mesh per inch *
	◆ ●	1	2315723	* Filter insert, red (fine), 200 mesh per inch – 10 pieces
	◆ ●	1	2315724	* Filter insert, blue (middle), 150 mesh per inch – 10 pieces
	◆ ●	1	2315725	* Filter insert, yellow (middle), 100 mesh per inch – 10 pieces
	◆ ●	1	2315726	* Filter insert, white (coarse), 50 mesh per inch – 10 pieces
	◆ ●	1	2365429	* Filter insert, green (coarse), 30 mesh per inch – 10 pieces
4		1	2311491	Turning handle
5		1	2325950	Filter outlet housing 90°, pre-assembled
6		1	9992609	Anti-seize paste
7	◆	1	128389	Seal

◆ = Wearing parts

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

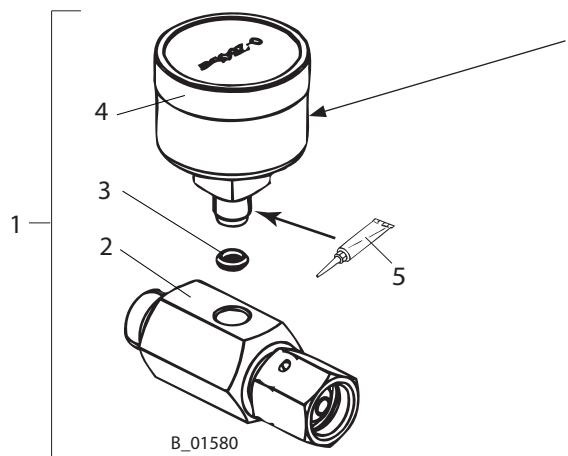


**6.2 PRODUCT PRESSURE GAUGE**

Spare parts list for product pressure gauge

			0–1 MPa <b>0–10 bar</b> 0–145 psi	0–4 MPa <b>0–40 bar</b> 0–580 psi	0–25 MPa <b>0–250 bar</b> 0–3,626 psi	0–40 MPa <b>0–400 bar</b> 0–5,800 psi	0–60 MPa <b>0–600 bar</b> 0–8,700 psi
			1/8"	1/8"	1/8"	1/4"	1/4"
<b>Pos K</b>	<b>Stk</b>	<b>Designation</b>	<b>Order No.</b>	<b>Order No.</b>	<b>Order No.</b>	<b>Order No.</b>	<b>Order No.</b>
1	1	Pressure gauge combination	2359103	2359104	2359105	2359107	2359108
2	1	Distributor piece, complete	2356204			2340935	
3 ♦	1	Sealing ring	389422			9970153	
4 ♦	1	Product pressure gauge	9999363	9999364	9999365	3676150	9998145
5	1	Molykote® DX grease	9992616				

♦ = Wearing parts

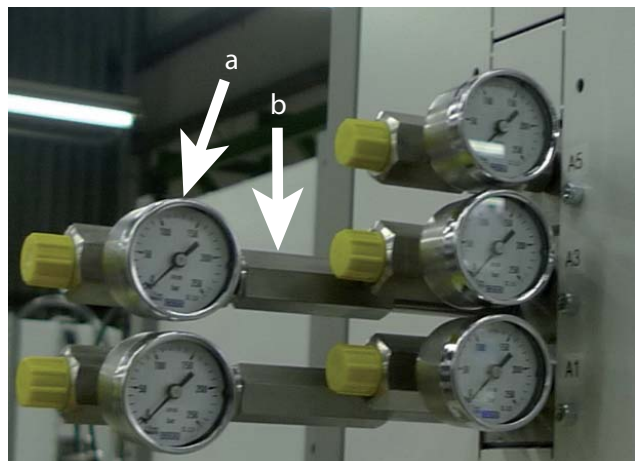


**Pos 4:**

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.

Are both product inlets of a double-acting valve equipped with a pressure gauge (a), the even longer fitting (b) is required, instead of the rear, long fitting (Order No. 2337415).

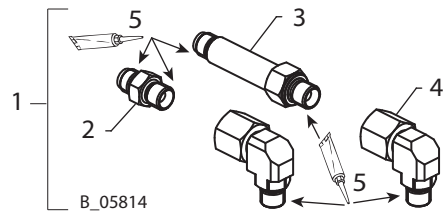
Pos	Designation	Order No.
b	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt	2362101



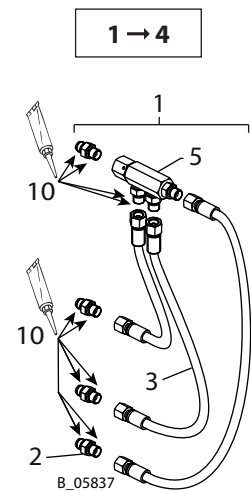
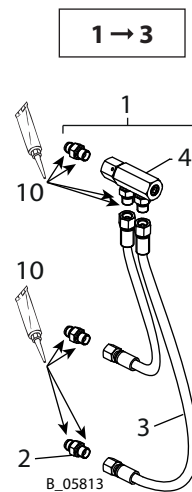
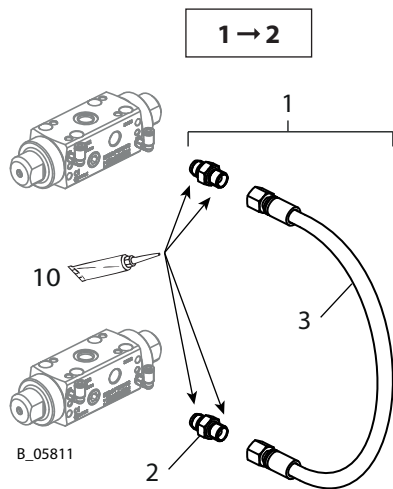
B\_5315

**6.3 CIRCULATION CONNECTION DOUBLE VALVE**

Pos K	Stk	Order No.	Designation
1	1	2359004	Double circulation connector
2	1	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
3	1	2337415	Fitting, DF-MM-G1/4-G1/4-long-530 bar-SSt
4	2	2331273	Fitting, EF-FM-G1/4-G1/4-530 bar-SSt
5	1	9992616	Molykote® DX grease



**6.4 FLUSHING AGENT DISTRIBUTOR**



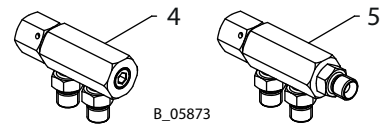
Pos K	Order No.	Designation	1 for 2	1 for 3	1 for 4
			Stk	Stk	Stk
1	--	Distributor: 1 flushing agent for several components	1	1	1
2	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt	2	3	4
3 ♦	2353854	HP hose, DN6-PN325 FEP G-G 0.805m	1	2	3
4	2359038	Distributor G1/4", complete		1	
5	2359037	Distributor G1/4", complete			1
10	9992616	Molykote® DX grease	1	1	1

♦ = Wearing parts



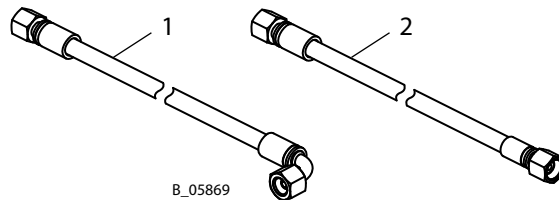
**6.5 SPLITTER VALVE**

Pos	K	Stk	Order No.	Designation
1		1	2359038	Distributor G1/4", complete
2		1	2359037	Distributor G1/4", complete



**Splitter valve with valves:** see Chapter 3

**6.6 PRODUCT HOSES**



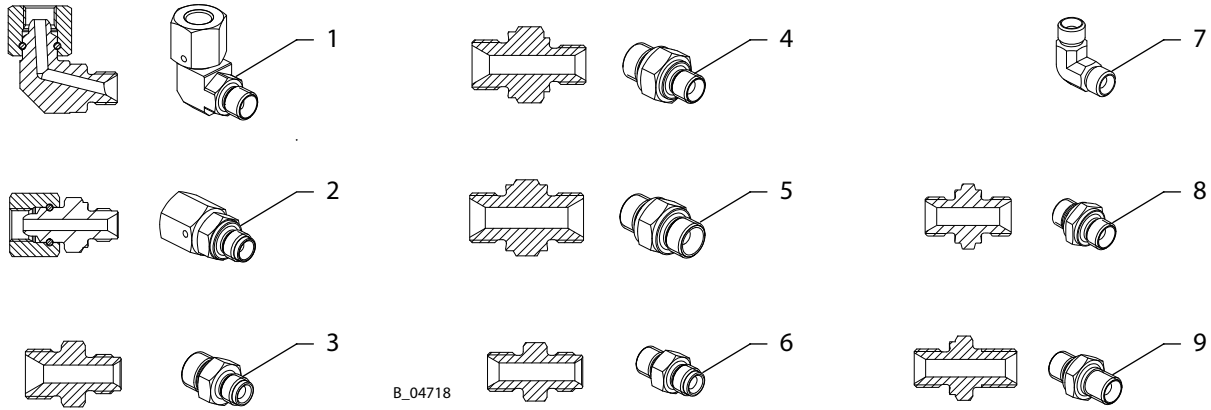
Product hoses for A / B / C / D components

Pos	K	Stk	Order No.	Designation	Inner hose		Nominal pressure	Nominal length	Hose length	Pressure fitting
					∅		MPa bar psi	mm inches	mm inches	
1	◆	1	2333779	HP hose, DN6-PN325 FEP W-G 0.52 m	DN6	FEP	32.5 325 4,714	520	475	G1/4" Angle bracket Straight
1	◆	1	2333791	HP hose, DN6-PN325 FEP W-G 0.67 m				670	625	
1	◆	1	2334065	HP hose, DN6-PN325 FEP W-G 0.87 m				870	825	
1	◆	1	2357479	HP hose, DN6-PN325 FEP W-G 0.97 m				970	925	
1	◆	1	2357480	HP hose, DN6-PN325 FEP W-G 1.17 m				1,170	1,125	
2	◆	1	2340038	HP hose, DN6-PN325 FEP G-G 0.505m				505	460	
2	◆	1	2353854	HP hose, DN6-PN325 FEP G-G 0.805m				805	760	
2	◆	1	2333869	HP hose, DN6-PN325 FEP G-G 15 m				15,000	14,955	
								590.6	588.8	

◆ = Wearing parts

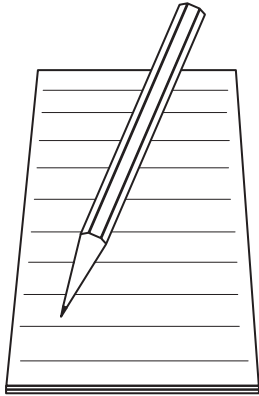
**Mixing hoses:** see Chapter 8.6

**6.7 FITTINGS**



Fittings

Pos	K	Stk	Order No.	Thread 1 / seal	Thread 2 / seal	Nominal pressure
1		1	2331273	G1/4" inside 60° cone	G1/4" outside 60° cone	53 MPa; 530 bar; 7,687 psi
2		1	2332021	G1/4" inside 60° cone	G1/4" outside 60° cone Sealing edge Sealing edge, front	
3		1	2331173	G3/8" outside 60° cone	G1/4" outside 60° cone Sealing edge, front	
4		1	2325826	G3/8" outside 60° cone Sealing edge	G1/4" outside 60° cone Sealing edge	
5		1	2330775	G3/8" outside 60° cone Sealing edge	G3/8" outside 60° cone Sealing edge	
6		1	2331174	G1/4" outside 60° cone	G1/4" outside 60° cone Sealing edge, front	
7		1	2328186	G1/4" outside 60° cone	R1/4" outside 60° cone	
8		1	3204611	G1/4" outside 60° cone Sealing edge	G1/4" outside 60° cone Sealing edge	
9		1	2330774	G1/4" outside 60° cone Sealing edge	1/4" NPS outside 60° cone	



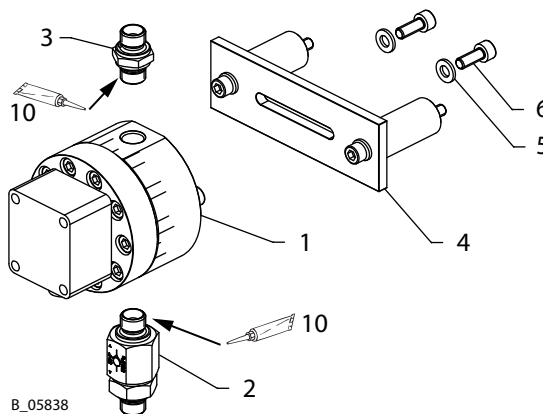
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## 7 FLOW METERS

### 7.1 GEAR FLOW METERS

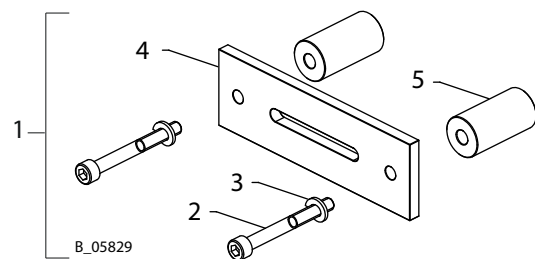
Pos K	Stk	Designation	for A	for B / C / D
			Order No.	Order No.
1	1	Gear flow meter (For details, see Chapters 7.1.2 to 7.1.6)	--	--
2	◆ 1	Non-return valve G1/4-G1/4-530 bar	2329021	
3	1	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt	3204611	
4	1	Flow meter bracket, complete. For details, see Chapter 7.1.1	--	
5	2	Washer, A6.4, DIN 125	9920103	
6	2	Hexagon socket cylinder head screw	9906015	
10	1	Molykote® DX grease	9992616	

◆ = Wearing parts

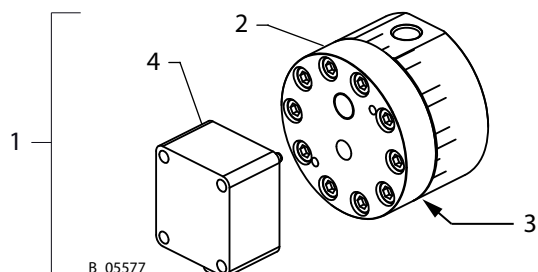


#### 7.1.1 FLOW METER BRACKET

Pos K	Stk	Order No.	Designation
1	1	--	Flow meter bracket, complete
2	2	9906036	Hexagon socket cylinder head screw
3	2	9921502	Lock washer, A6.0
4	1	2337455	Flow meter bracket
5	2	2355808	Distance bolt



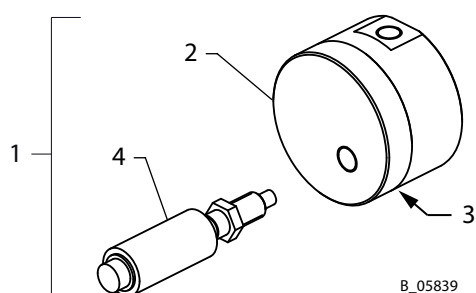
**7.1.2 GEAR FLOW METERS, 0.02-3 GL, 0.02-3 KL AND 0.005-2 GL**



Pos	K	Stk	Designation	0.02-3				0.005-2		
				GL Ex		KL Ex		GL Ex	KL Ex	
				for A / external flushing agent	for B / C / D	for A	for B / C / D	for B / C / D	for B / C / D	
Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.				
1		1	Gear flow meter set	--	--	--	--	--	--	
2	◆	1	Gear flow meter	2343971		2343972		2343973	2334770	
3	◆	1	O-ring	2356810				on request		
4		1	Pickup, 2/3 Ex	2302977						

◆ = Wearing parts

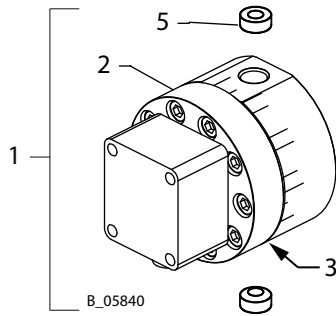
**7.1.3 GEAR FLOW METERS, 0.1-7 GL AND 0.002-0.5 KL**



Pos	K	Stk	Designation	0.1-7	0.002-0.5
				GL Ex	KL Ex
				for A	for C / D
Order No.	Order No.				
1		1	Gear flow meter set	--	--
2	◆	1	Gear flow meter	2311948	2343974
3	◆	1	O-ring	9955864	on request
4		1	Carrier frequency pulse amplifier	2311950	2311620

◆ = Wearing parts

**7.1.4 GEAR FLOW METER, 0.005-1 GL DUAL PICKUP**

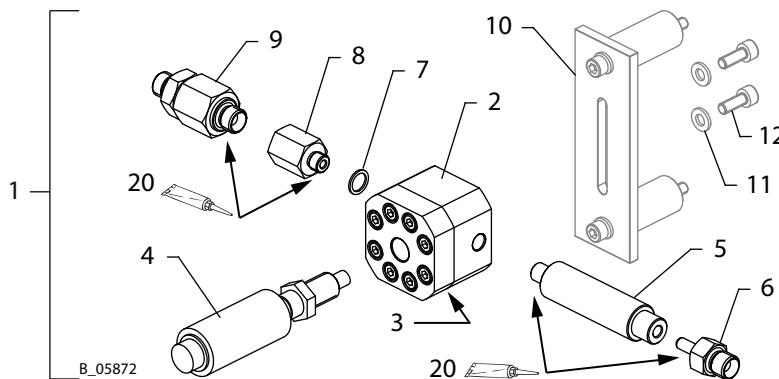


Pos	K	Stk	Designation
1		1	Gear flow meter set
2	◆	1	Gear flow meter including carrier frequency pulse amplifier
3	◆	1	O-ring
5		2	Sleeve

0.005-1 GL Ex Dual Pickup for B / C / D	
Order No.	
--	
9955686	
on request	
9998867	

◆ = Wearing parts

**7.1.5 MICRO FLOW METER (KM 0.005-0.25 L/MIN)**



**Application**

Only for thin fluids up to 100 cSt (~ 100 mPas) without nonvolatile part.

Pos	K	Stk	Designation
1		1	Micro flow meter
2	◆	1	Micro flow meter KM 0.005-0.25 L/min
3	◆	1	O-ring, PTFE
4		1	Carrier frequency pulse amplifier
5	◆	1	Filter for micro flow meter
6		1	Fitting, M-G1/4-D6-100 bar-SSt
7	◆	1	Sealing ring
8		1	Fitting, RF-FM-G1/4-G1/8-530 bar-SSt
9	◆	1	Non-return valve G1/4-G1/4-530 bar
10		1	Flow meter bracket, complete. For details, see Chapter 7.1.1
11		2	Washer
12		2	Hexagon socket cylinder head screw
20		1	Molykote® DX grease

0.005-0.25 Ex for B / C / D	
Order No.	
--	
2311618	
2312588	
2311620	
2311619	
2357398	
9970127	
2365953	
2329021	
--	
9920103	
9906015	
9992616	

◆ = Wearing parts, KM = Smallest quantity





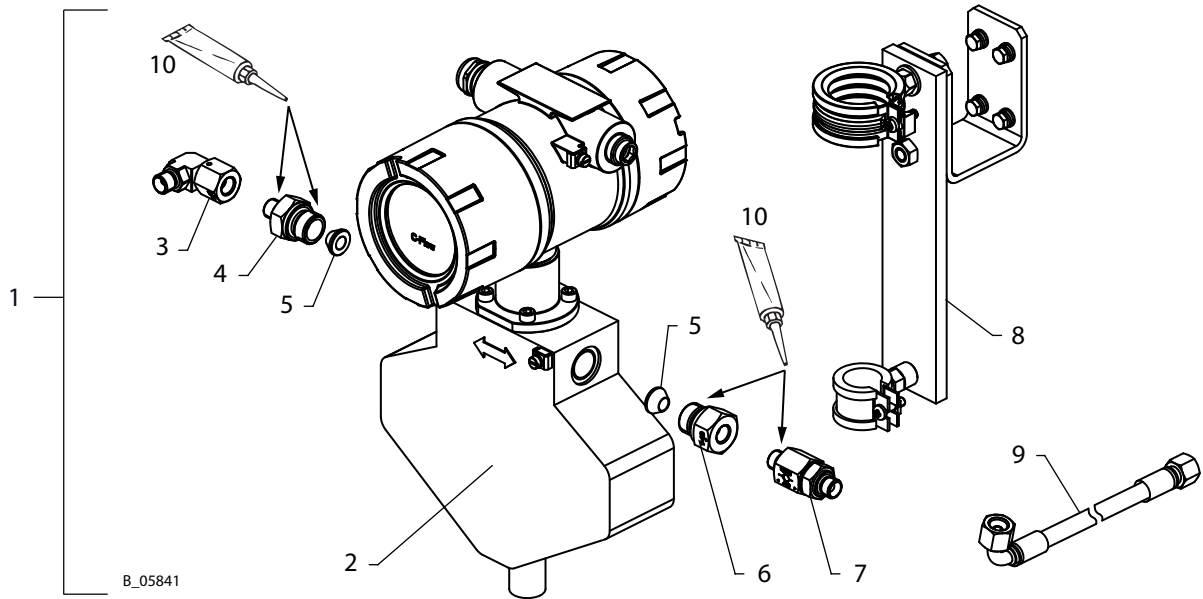
**7.1.6 CABLE SET FOR GEAR FLOW METER**

Spare Parts Cable set for gear flow meter		Non-Ex						Ex	
		Fluid cabinet/control cabinet separately						Dual Pickup	
		one above the other		Dual Pickup		no		yes	
Pos K	Stk	Designation	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	
1	1	Low frequency line, 2 m; 78 inches	384401						
2	m	Cable for flow meter (per meter)		9955901	9955900	9955901	9955900	9955901	
3	1	Cable screw connection, ST M12-1.5			3156823				
4	1	Grounding terminal			9955804				
5	1	Hexagon drilling screw			9907220				
6	0.02 m	Shrink tubing		9987096		9982163		9987096	
7	2	Jumper bar, 2-fold		9956083					
	1			9956083					
8	1	Angled plug socket (flow meter plug)				9955933			
9	6.5 m	Strand, light blue 0.75 mm <sup>2</sup> (8 m for Dual Pickup)			--				
10	2	Double-deck terminal block, 3-lead		9955960		9955960		9955960	
	1								
11	1	End plate			9955961				
12	6	End-sleeve with insulation				9951319		9951319	
	10								
13	1	Zener barriers, Z787.H				9956095			
14	1	Zener barriers, Z787					9955954		
15	1	Zener barriers, Z728						3156559	

**Cable set for flow meter in external flushing agent:** **Non-Ex:** Non-Ex column, separate fluid cabinet/control cabinet, not Dual Pickup  
**Ex:** Ex column, not Dual Pickup

**7.2 CORIOLIS FLOW METERS**

**7.2.1 CORIOLIS FLOW METER, 0.075-5**

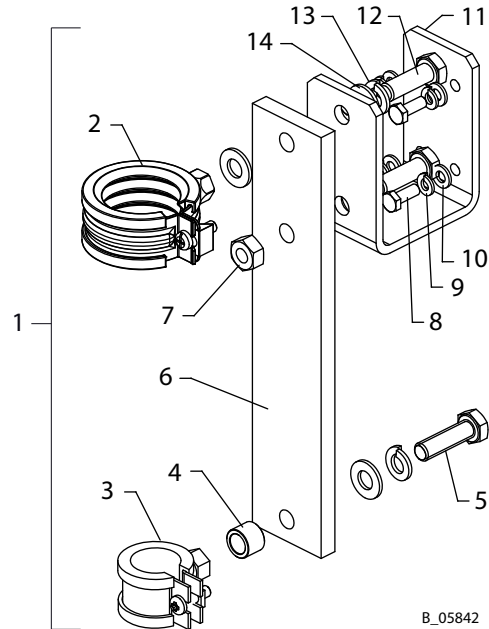


B\_05841

			0.075-5 Ex
			for A / B / C / D
Pos K	Stk	Designation	Order No.
1	1	Coriolis compact set 0.075-5 Ex, complete	--
2	◆	Coriolis compact, NW4 Ex (without mounting bracket)	2359845
3	1	Fitting, EF-FM-G1/4-G1/4-530 bar-SSt	2331273
4	1	Fitting, DF-MM-G1/2-G1/4-530 bar-SSt	2331062
5	◆	Filler part, 1/2 x 9	2355339
6	1	Fitting, RF-FM-G1/4-G1/2-530 bar-SSt	2355349
7	◆	Non-return valve, DN6-PN270-G1/4"-SSt	2329021
8	1	Mounting bracket Coriolis-Compact 2, complete For details, see Chapter 7.2.2	--
9	◆	HP hose, DN6-PN325 FEP W-G 0.67 m	2333791
10	1	Molykote® DX grease	9992616

◆ = Wearing parts

## 7.2.2 CORIOLIS-COMPACT 2 MOUNTING BRACKET



Pos K	Stk	Designation	Order No.
1	1	Mounting bracket Coriolis-Compact 2, complete	--
2	1	Screw pipe clip	9999588
3	1	Hose clip with rubber, M8/10	2301034
4	1	Spacing tube	392345
5	1	Hexagon screw without shaft	9900127
6	1	Mounting plate	2359975
7	1	Hexagon nut	9910105
8	4	Hexagon screw without shaft	9900111
9	4	Spring washer	9921502
10	4	Washer	9920103
11	1	Mounting bracket	392350
12	2	Hexagon screw without shaft	9907041
13	3	Spring washer	9921507
14	4	Washer	9920106

◆ = Wearing parts

### 7.2.3 CABLE SET FOR CORIOLIS

#### Cable set for Coriolis

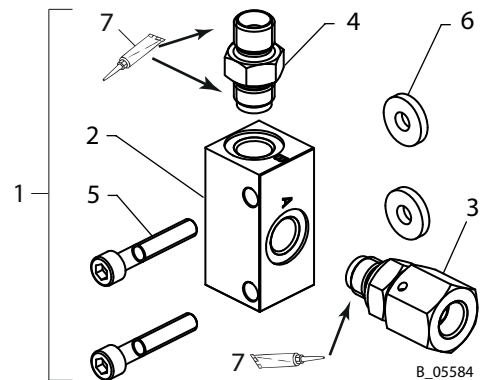
Pos K	Stk	Designation	Non-Ex		Ex
			Fluid cabinet/ one above the other	control cabinet separately	
			Order No.	Order No.	Order No.
1	1	Cable set for Coriolis	--	--	--
2	4 m	Control cable, 8Gx1	2362458		
	m			2362458	
3	1	Cable connection		3156825	
4	1	Grounding terminal, FGC-8		2358998	
5	1	Hexagon drilling screw		9907220	
6	1	Locknut		9955721	
7	0.02 m	Shrink tubing		9987096	
8	2	Jumper bar, 2-fold	9956083		
9	1				9956083
10	1	Cable lug, round with isolation		9950630	
11	3 m	Strand, light blue 0.75 mm <sup>2</sup>		--	
12	2	Double-deck terminal block, 3-lead		9955960	
13	1	End plate		9956034	
14	1	End plate		9955961	
15	1	Three-deck resistance terminal block 470 Ohm		2358829	
16	0.8 m	Grounding cable, green/yellow 1.5 mm <sup>2</sup>		9953412	

## 8 MIXING

### 8.1 MIXING BLOCK

Mixing block A+B

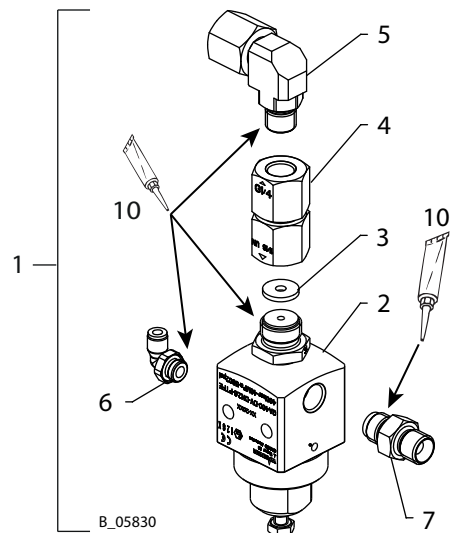
Pos K	Stk	Order No.	Designation
1	1	--	Mixing block set
2	1	384326	Mixing block
3	1	2332021	Fitting, SF-FM-G1/4-G1/4-530 bar-SSt
4	1	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
5	2	9900333	Hexagon socket cylinder head screw
6	2	9920806	Washer
7	1	9992616	Molykote® DX grease



For mixing block for component C or D, see Chapter 9.1.

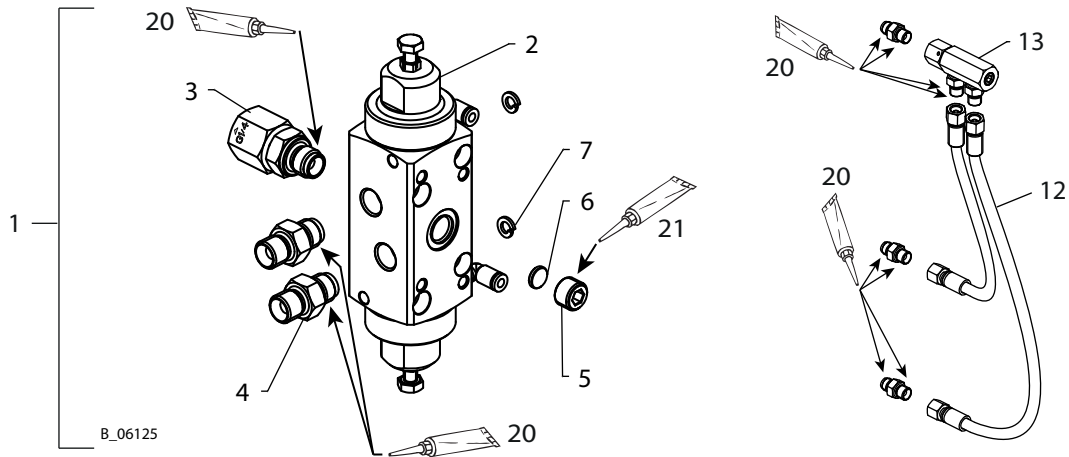
### 8.2 MIXING HEAD CYCLE FOR FLOW METER

Pos K	Stk	Order No.	Designation
1	1	2360953	Mixing head cycle for flow meter
2	1	2343362	Valve GA400-DV-DN2.6-PTFE-TC For details, see operating manual PV, DV, GA (DN 2.6) – Order No. in Chapter 1.3.1
3 ♦	1	350489	Seal
4	1	2355326	Fitting, SF-FF-G1/4-11/16UN-530 bar-SSt
5	1	2331273	Fitting, EF-FM-G1/4-G1/4-530 bar-SSt
6	1	9999066	Male stud elbow
7	1	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
10	1	9992616	Molykote® DX grease



♦ = Wearing parts

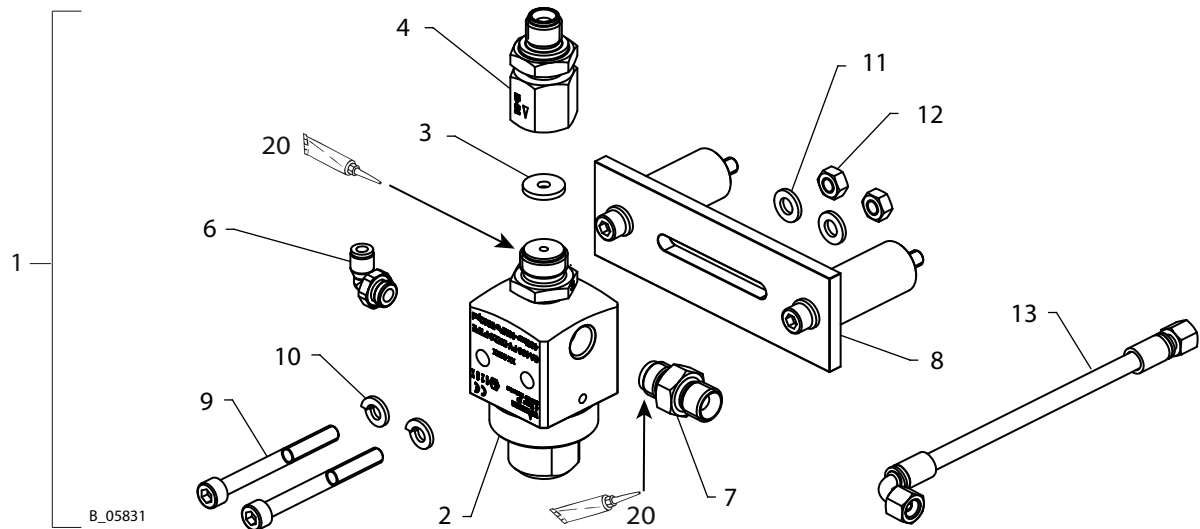
**8.2.1 MIXING HEAD CYCLE, FLUSHABLE FOR FLOW METER**



Pos K	Stk	Order No.	Designation
1	1	2360956	Mixing head cycle, flushable for flow meter
2	1	2342808	Valve DV400-DN2.6-PTFE-TC, complete For details, see operating manual PV, DV, GA (DN 2.6) – Order No. in Chapter 1.3.1
3	1	2332021	Fitting, SF-FM-G1/4-G1/4-530 bar-SSt
4	5	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
5	1	104376	Screw plug
6	1	384323	Plug
7	2	9921517	Spring washer
12 ♦	2	2353854	HP hose, DN6-PN325 FEP G-G 0.805m
13	1	2359038	Distributor G1/4", complete
20	1	9992616	Molykote® DX grease
21	1	9992831	Loctite® 542 - 50 ml

♦ = Wearing parts

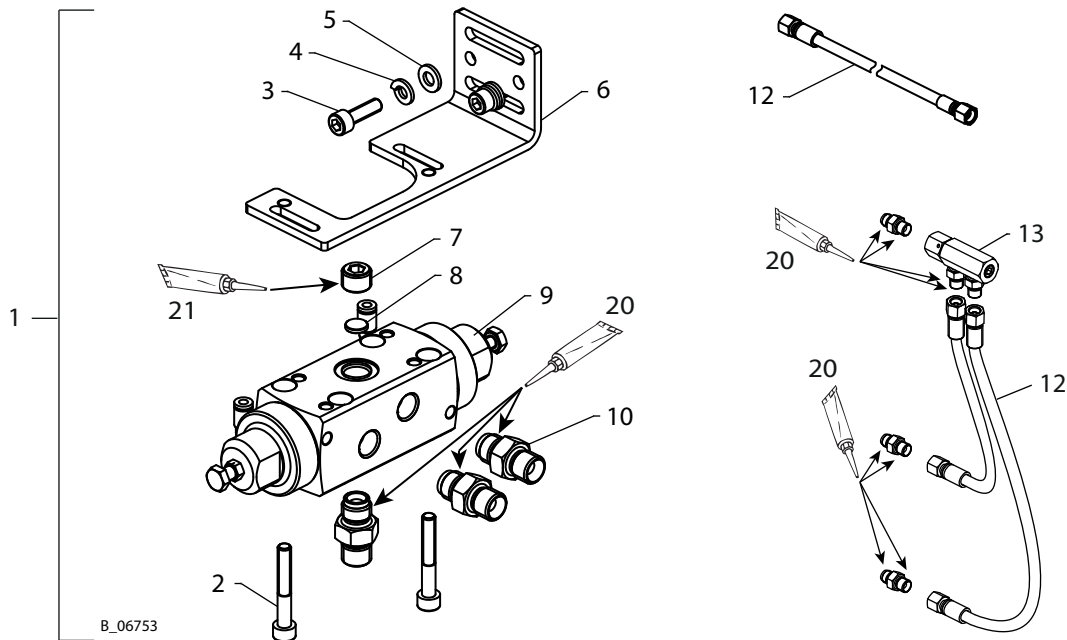
### 8.3 MIXING HEAD CYCLE FOR CORIOLIS OR STROKE MEASUREMENT



Pos K	Stk	Order No.	Designation
1	1	2360954	Mixing head cycle for Coriolis or stroke measurement
2	1	2343360	Valve GA400-PV-DN2.6-PTFE-TC For details, see operating manual PV, DV, GA (DN 2.6) – Order No. in Chapter 1.3.1
3 ◆	1	350489	Seal
4	1	393450	Fitting, SF-FM-11/16UN-G1/4-530 bar-SSt
6	1	9999066	Male stud elbow
7	1	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
8	1	--	Flow meter bracket. For details, see Chapter 7.1.1.
9	2	9907024	Hexagon socket cylinder head screw
10	2	9921502	Spring washer
11	2	9920103	Washer
12	2	9910102	Hexagon nut
13 ◆	1	2333779	HP hose, DN6-PN325 FEP W-G 0.52 m
20	1	9992616	Molykote® DX grease

◆ = Wearing parts

**8.3.1 MIXING HEAD CYCLE, FLUSHABLE FOR CORIOLIS OR STROKE MEASUREMENT**

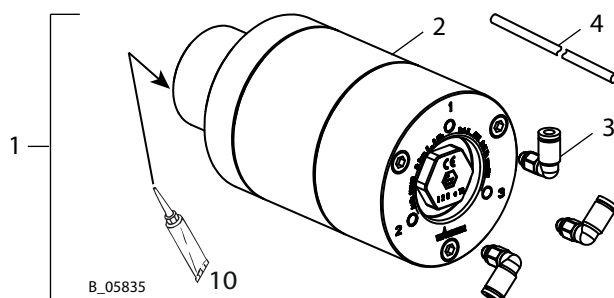


Pos K	Stk	Order No.	Designation
1	1	--	Mixing head cycle, flushable for Coriolis or stroke measurement
2	2	9900336	Hexagon socket cylinder head screw
3	2	9900312	Hexagon socket cylinder head screw
4	2	9921502	Spring washer
5	2	9920103	Washer
6	1	2343862	Mounting bracket set inclusive Pos 3, 4, 5
7	1	104376	Screw plug
8	1	384323	Plug
9	1	2342808	Valve DV400-DN2.6-PTFE-TC, complete For details, see operating manual PV, DV, GA (DN 2.6) – Order No. in Chapter 1.3.1
10	6	2331174	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt
12	◆	3	HP hose, DN6-PN325 FEP G-G 0.805 m
13	1	2359038	Distributor G1/4", complete
20	1	9992616	Molykote® DX grease
21	1	9992831	Loctite® 542 - 50 ml

◆ = Wearing parts



**8.4 AIS**



Pos K	Stk	Order No.	Designation
1	1	2359016	AIS motor set
2	1	--	AIS motor
3	3	9992724	Male stud elbow
4	3 m	9982072	Hose black, PUR 4/2,7
10	1	9992616	Molykote® DX grease

◆ = Wearing parts

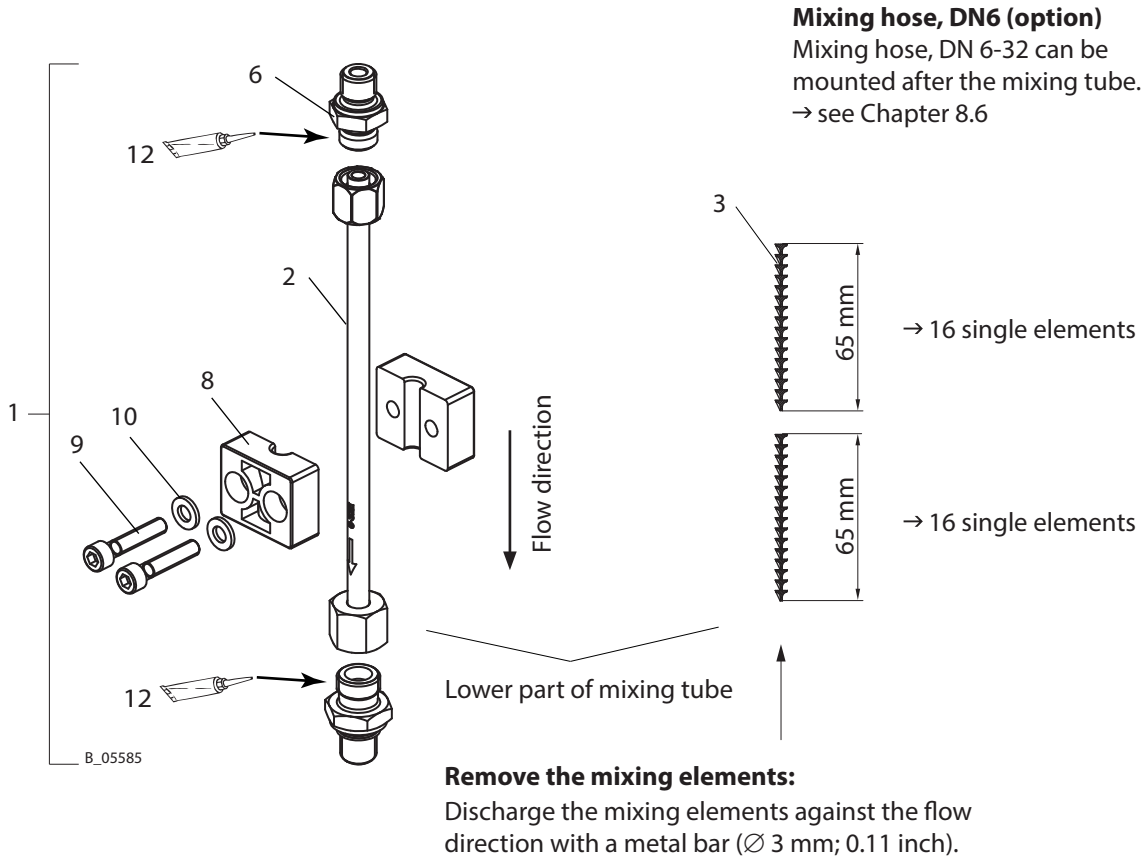
**8.5 MIXING TUBES**

**8.5.1 MIXING TUBE SET, 5-32**

Mixing tube length = 194 mm; 7.64 inch

Pos K	Stk	Order No.	Designation
1	1	2359007	Mixing tube set 5-32E ST/KS
2 ♦	1	2365905	Mixing tube, complete 5-32E ST/KS (including Pos 3)
3 ♦	2	9999348	Mixing element (16 single elements)
6	2	2341888	Fitting, DF-MM-M14x1.5-G1/4-530 bar-SSt
8	1	9999375	Pipe clamp
9	2	9900338	Hexagon socket cylinder head screw
10	2	9920103	Washer, A6.4, DIN 125
12	1	9992616	Molykote® DX grease

♦ = Wearing parts

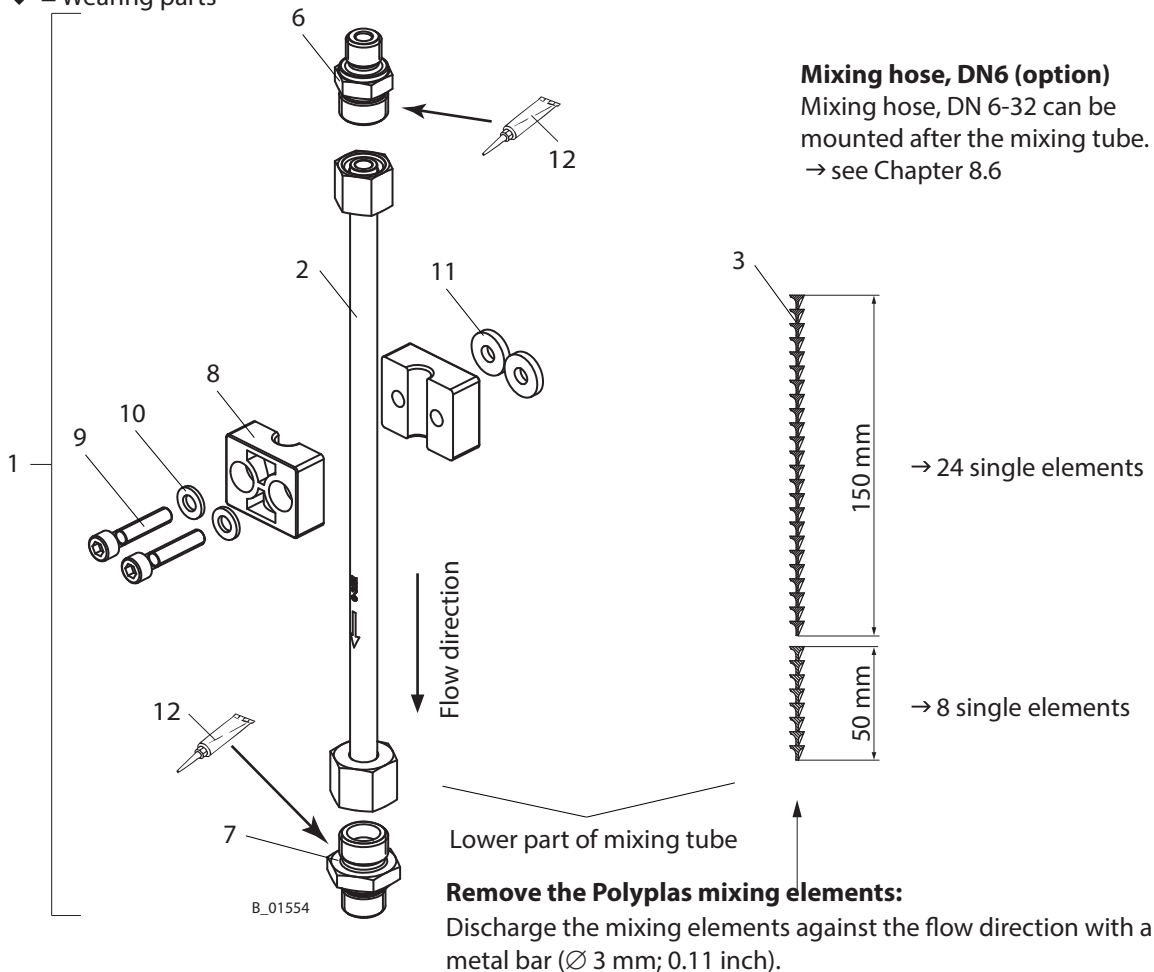


**8.5.2 MIXING TUBE SET, 6-32**

Mixing tube length = 268 mm; 10.55 inch

		Mixing elements consisting of	
		Polyplas	Stainless steel 282 bar
Pos K	Stk	Order No.	Order No.
1	1	2359006	--
2 ♦	1	384083	
	1		2359013
3 ♦	1.333	9999136	
6	1	9998788	
7	1	2332821	
8	1	9998420	
9	2	9900333	
10	2	9920103	
11	2	9920806	
12	1	9992616	

♦ = Wearing parts

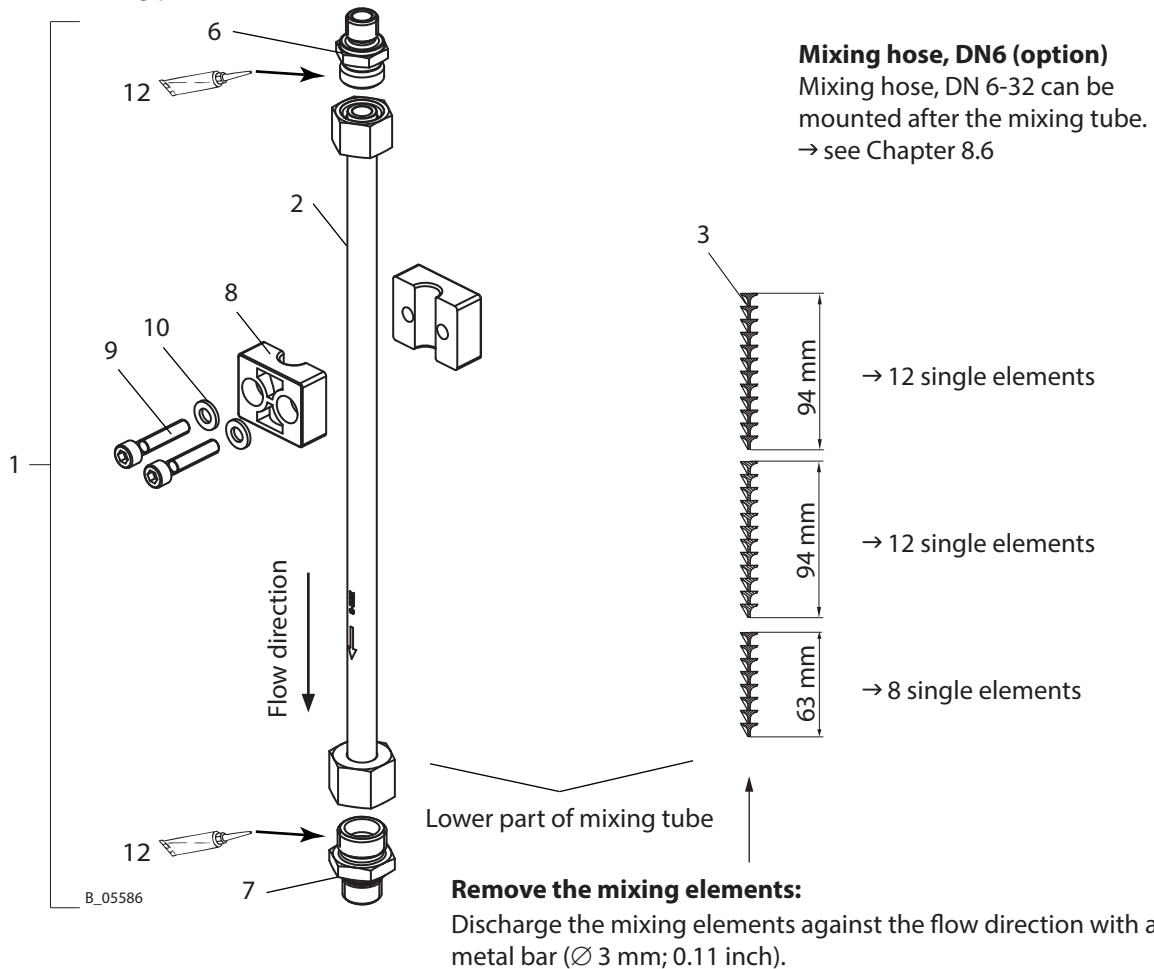


**8.5.3 MIXING TUBE SET, 8-32**

Mixing tube length = 317 mm; 12.48 inch

Pos	K	Stk	Designation	Mixing elements consisting of	
				Polyplas	Stainless steel 226 bar
				Order No.	Order No.
1		1	Mixing tube set, 8-32E ST/KS	2359008	--
2	◆	1	Mixing tube, complete 8-32E ST/KS (including Pos 3)	384085	2359014
		1	Metal mixing tube DN8, complete (30 spirals), 366 mm; 14.41 inches. Maximum pressure 22.6 MPa; 226 bar; 3,278 psi		
3	◆	2.666	Mixing element (12 single elements)	9999349	
6		1	Straight threaded fitting	9998789	
7		1	Fitting, DF-MM-M20x1.5-G1/4-530 bar-SSt	2341894	
8		1	Pipe clamp	9999376	
9		2	Hexagon socket cylinder head screw	9900338	
10		2	Washer, A6.4, DIN 125	9920103	
12		1	Molykote® DX grease	9992616	

◆ = Wearing parts

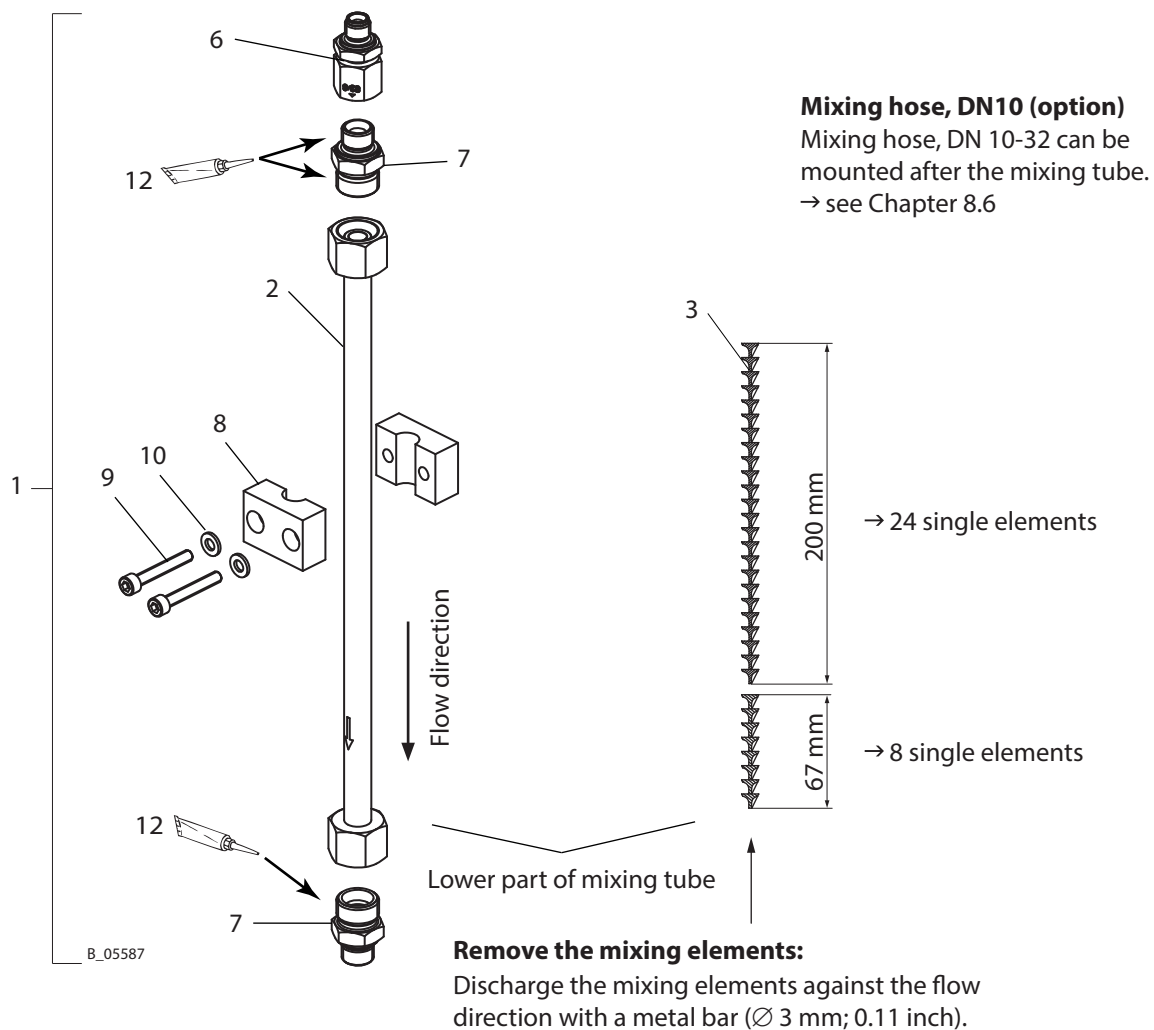


**8.5.4 MIXING TUBE SET, 10-32**

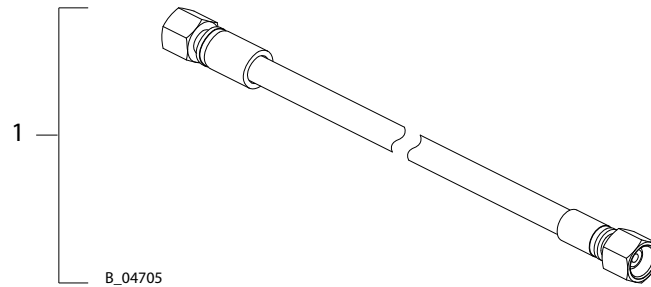
Mixing tube length = 368 mm; 14.49 inch

Pos K	Stk	Order No.	Designation
1	1	2359010	Mixing tube set, 10-32E ST/KS
2	◆	384098	Mixing tube, complete 10-32E ST/KS (including Pos 3)
3	◆	9999446	Mixing element (24 single elements)
6	1	2331971	Fitting, SF-FM-G3/8-G1/4-530 bar-SSt
7	2	2332966	Fitting, DF-MM-M22x1.5-G3/8-530 bar-SSt
8	1	9998683	Pipe clamp
9	2	9907050	Hexagon socket cylinder head screw
10	2	9920103	Washer, A6.4, DIN 125
12	1	9992616	Molykote® DX grease

◆ = Wearing parts



## 8.6 MIXING HOSES



Spare parts list				Inner hose	Nominal pressure	Nominal length	Hose length	Pressure fitting	Number of single mixing elements	
Pos	K	Stk	Order No.	Designation	∅	MPa bar psi	mm inches	mm inches		
1	◆	1	2340040	Mixing hose, DN 6-32 G 1/4 *	DN6 PA	32.5 325 4,714	455 17.9	420 16.5	G1/4" Straight	48
1	◆	1	2312402	Mixing hose, DN 10-32 G 3/8 **	DN10 PA	25 250 3,626	387 15.2	345 13.6	G3/8" Straight	32

◆ = Wearing parts

### Mixing Hose, DN6

is used together with the following fitting:

Pos	K	Stk	Order No.	Designation
		1	3204611	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt

### Mixing Hose, DN10

is used together with the following fitting:

Pos	K	Stk	Order No.	Designation
		1	2330775	Fitting, DF-MM-G3/8-G3/8-PN530-SSt

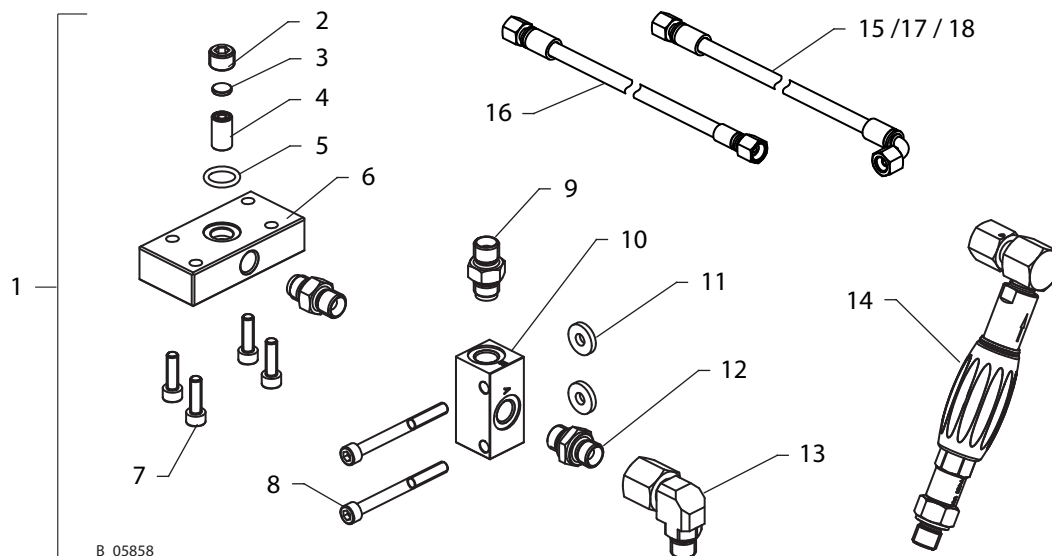
### Mixing tubes

see Chapter 8.5.

## 9 MISCELLANEOUS

### 9.1 3K / 4K INSTALLATION MATERIAL

Pos K	Stk	Designation	3K	4K
			Order No.	Order No.
1	1	Installation material	2360926	--
2	1	Screw plug	104376	
3	1	Plug	384323	
4	1	Filler part for end plate	2356333	
5 ♦	1	O-ring	9974164	
6	1	End plate	2356015	
7	4	Hexagon socket cylinder head screw	9900312	
8	2	Hexagon socket cylinder head screw	9900333	9906011
9	2	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt	2331174	
10	1	Mixing block	384326	
11	2	Washer	9920806	
12	1	Fitting, DF-MM-G1/4-G1/4-530 bar-SSt	3204611	
13	1	Fitting, EF-FM-G1/4-G1/4-530 bar-SSt	2331273	
14	1	Inline filter, HL DN6-PN270-G1/4"-SSt For details, see Chapter 6.1	2329026	
15 ♦	1	HP hose, DN6-PN325 FEP W-G 0.97 m	2357479	
16 ♦	1	HP hose, DN6-PN325 FEP G-G 0.505m	2340038	
17 ♦	1	HP hose, DN6-PN325 FEP W-G 0.52 m		2333779
18 ♦	1	HP hose, DN6-PN325 FEP W-G 0.67 m		2333791
20	1	Molykote® DX grease	9992616	



**Pos. 20:** Lubricate all stainless steel fittings with Molykote®, except those who explicitly request something different (e.g., Loctite®).

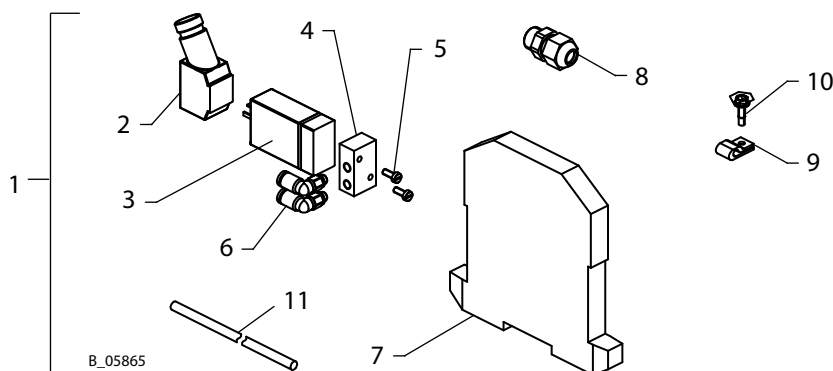
## 9.2 ELECTRO-PNEUMATIC VALVES FOR EXPLOSIVE AREAS

Electro-pneumatic valves for explosive areas are required:

- for air supply connections of dosing valves, Ex
- for more air supply connections with connection set from 17 m; 56 ft.

Pos K	Stk	Order No.	Designation
1	1	2365901	Dosing connection, EX
2	1	9956102	Device socket outlet
3	1	9956099	3/2-way valve, 6106 Ex i
4	1	9956103	Single connection plate
5	2	9900717	Socket cap screw with slit
6	2	9992724	Male stud elbow
7	1	3156559	Zener barriers, Z728
8	1	3156823	Cable screw connection, ST M12-1.5
9	1	9955804	Grounding terminal
10	1	9907220	Hexagon drilling screw
11	1 m	9982072	Hose, black PUR 4/2.7
12	5	9951319	End-sleeve with insulation
13	2 m	--	Strand, light blue 0.75 mm <sup>2</sup>

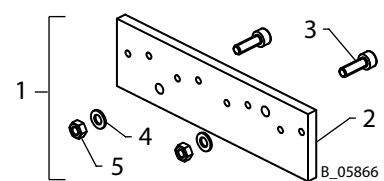
◆ = Wearing parts



### 9.2.1 CONNECTION PLATE, EX I

Up to four electro-pneumatic valves can be mounted on each connection plate, Ex i.

Pos K	Stk	Order No.	Designation
1	1	--	Connection plate, Ex i
2	1	384445	Plate Ex-valve
3	2	9900307	Hexagon socket cylinder head screw
4	2	9920101	Washer
5	2	9910106	Hexagon nut



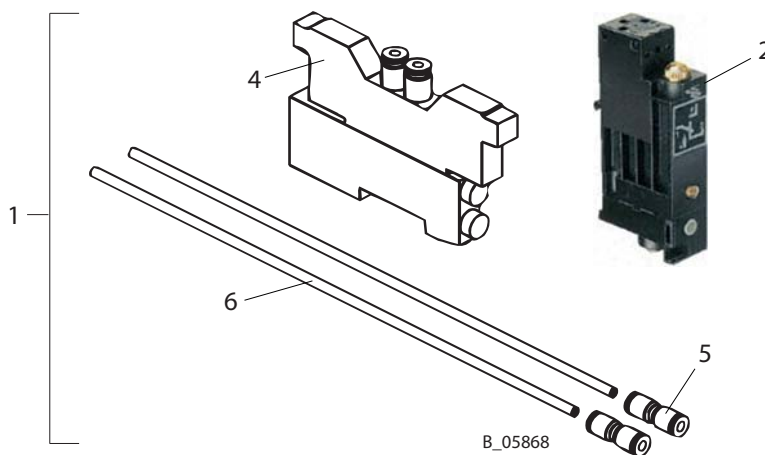
◆ = Wearing parts



**9.3 AUTOMATIC FILLING SYSTEM (3/2-WAY VALVE, PRESSURE SWITCH)**

Pos K	Stk	Order No.	Designation
1	1	--	Automatic filling system (3/2-way valve, pressure switch)
2	1	Y803.00A	Pressure switch D4
3	1	9956161	Coupling relay
4	1	9956145	Double 3/2-way valve with base plate
5	2	9999231	Connection
6	3 m	9982072	Hose, black PUR 4/2.7
7	1	3156823	Cable screw connection, ST M12-1.5
8	1	3661313	Elbow nipple
9	3 m	--	Strand, light blue 0.75 mm <sup>2</sup>

◆ = Wearing parts



**9.4 ROBOT COMMUNICATION**

Pos K	Order No.	Designation	Digital communication	
			up to 2 spray guns (28 relays)	up to 4 spray guns (38 relays)
			Stk	Stk
1	--	Robot communication		1
2	9956161	Coupling relay	28	38
3	9955327	Bracket		2
4	3107597	Group plate carrier		1
5	9953420	Strand, light blue 0.75 mm <sup>2</sup>		40 m

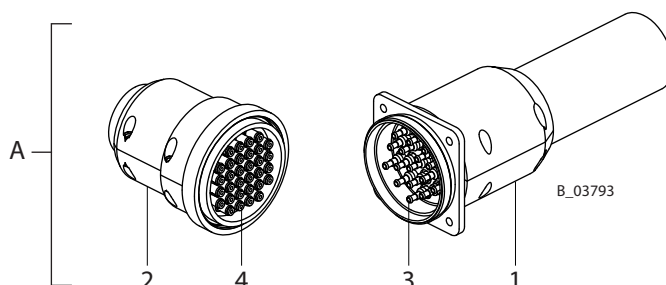
◆ = Wearing parts

## 9.5 CONNECTION SET

Connection set of fluid cabinet – control cabinet			Non-Ex	Ex
Pos K	Stk	Designation	Order No.	Order No.
1	1	Connection set of fluid cabinet – control cabinet	--	--
2	m	Cable for flow meter	9955900	
3	m	Cable for flow meter with Dual Pickup	9955901	
4	m	Cable for Coriolis	2362458	
5	m	Cable to Ex i valve and lacquer monitoring	9956160	
6	m	Grounding cable 4 mm <sup>2</sup>	9951211	
7	m	Hose, D 4	9982072	
8	m	Hose, D 6 (air supply of Ex i valves)	9982079	
9	m	Hose, 10/8 for atomizing air	9987076	
10	m	Protective hose, small (up to 16 air hoses)	9982016	
11	m	Protective hose, large (as of 17 air hoses)	2344007	
12	1-x	Multiple plug, 16-pin (up to 16 air hoses) For details, see Chapter 9.5.1	384191	
13	1-x	Multiple plug, 32-pin (up to 32 air hoses) For details, see Chapter 9.5.1	384192	

### 9.5.1 MULTIPLE PLUG FOR HOSES, AD 4

Pos K	Stk	Designation	16-pin	32-pin
			Order No.	Order No.
A	1	Multiple plug, complete	384191	384192
1	1	Multiple plug	9999481	9999485
2	1	Multiple socket	9999482	9999486
3	16 / 32	Plug-in fitting	9999483	
4	16 / 32	Socket	9999484	



The multiple plug 16-pin is shown.



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