

## Spare parts catalog

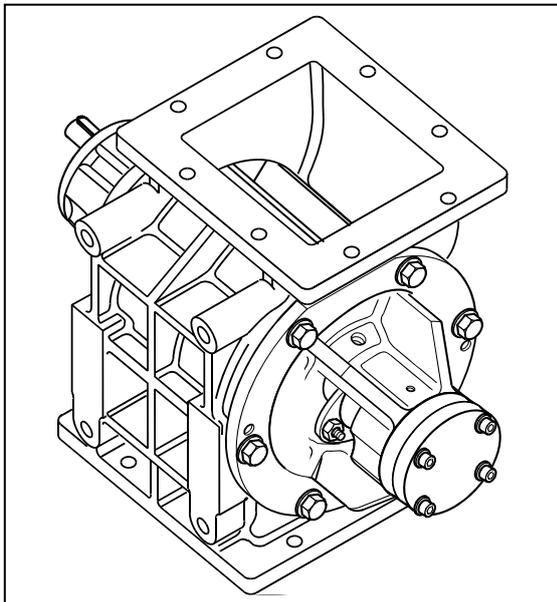
### Rotary Valve

Type ZKD, ZKC, ZKX, ZVD, ZVC, ZVX ZGD,ZPD  
for T version (high temperature)

Spare parts catalog number S55658\_GB\_2007-03

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## Contents of Spare parts catalog

	Number	Chapter
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**This Spare parts catalog must only be used in conjunction with Operating Manual M518131, which was supplied with every rotary valve as standard!**

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## Spare and wearing parts

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## 1 Stockkeeping of spare parts

It is an essential requirement for ensuring the constant function and readiness for operation of the rotary valve that a stock of the most important spare and wearing parts is kept at the site of installation.

Please refer to the spare parts list for ordering spare parts.

The drawings of spare parts are designed to provide further information.

We only guarantee original spare parts supplied by us.

We must point out expressly that original spare parts and accessories not supplied by us have neither been tested nor approved by us. The installation and/or use of such products might therefore have a negative effect on the design properties of the rotary valve, thereby impairing the active and/or passive operational reliability and safety of the unit. Coperion Waeschle does not accept any liability and warranty for damage incurred as a result of the use of non-original spare parts and accessories.



It is vital that original spare parts are used to ensure the safe operation of the rotary valve, especially in a potentially explosive atmosphere (equipment category 2GD/3GD).

Please note that there are often special manufacturing and supply specifications for our own and bought-in parts and that we always provide spare parts in line with the state-of-the-art and in accordance with the most recent statutory requirements.

Please quote the following data when ordering spare parts:

### Unit data:

- Serial number (shown on rating plate)
- Type designation (shown on rating plate)
- Coperion Waeschle order number with sub-assembly (if applicable)

### Spare parts data:

- Spare parts catalog number (see front cover)
- Item
- Designation
- Quantity

## 2 Service

We recommend a regular service by our qualified technical team. We would like to increase the operability of your components even after prolonged periods of use and can therefore offer you the facilities of our service centre.

- We would be pleased to offer you a maintenance contract. This means that we would not only undertake to carry out the actual maintenance work, but also monitor the maintenance cycles etc. This operates very simply: We simply enter your records in our service computer file and contact you automatically to arrange a convenient date.
- If you would like to carry out the maintenance work yourself, we would be pleased to provide intensive training for your operating personnel with regard to the operation and repair of Coperion Waeschle components. We run courses in our engineering department and our teaching facilities to provide you with comprehensive information about rotary valves, shut-off and diverter valves to improve your ability to carry out your own maintenance work and troubleshooting.
- Naturally we would also be pleased to carry out the assembly and commissioning of your Coperion Waeschle components.

If you require any of these facilities, please contact our Service Centre:

### **Coperion Waeschle GmbH & Co. KG**

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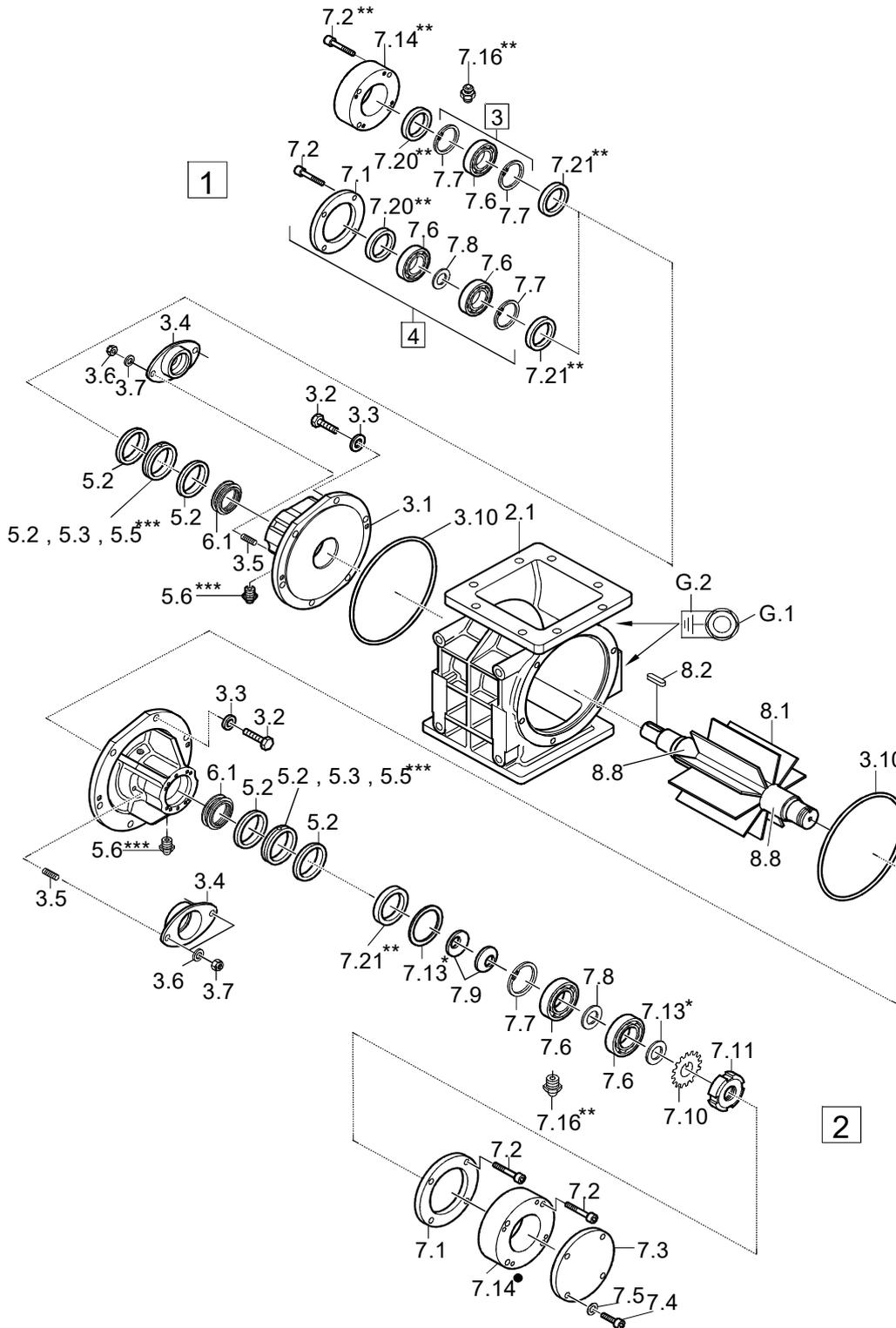


For safety reasons you should only use original Coperion Waeschle spare parts.

To allow us to deal with your requests quickly and efficiently, we require the following information:

- Serial number (shown on rating plate)
- Type designation (shown on rating plate)
- Coperion Waeschle order number with sub-assembly (if applicable)
- Description of the problem
- Operating data

Standard version (.1 version)



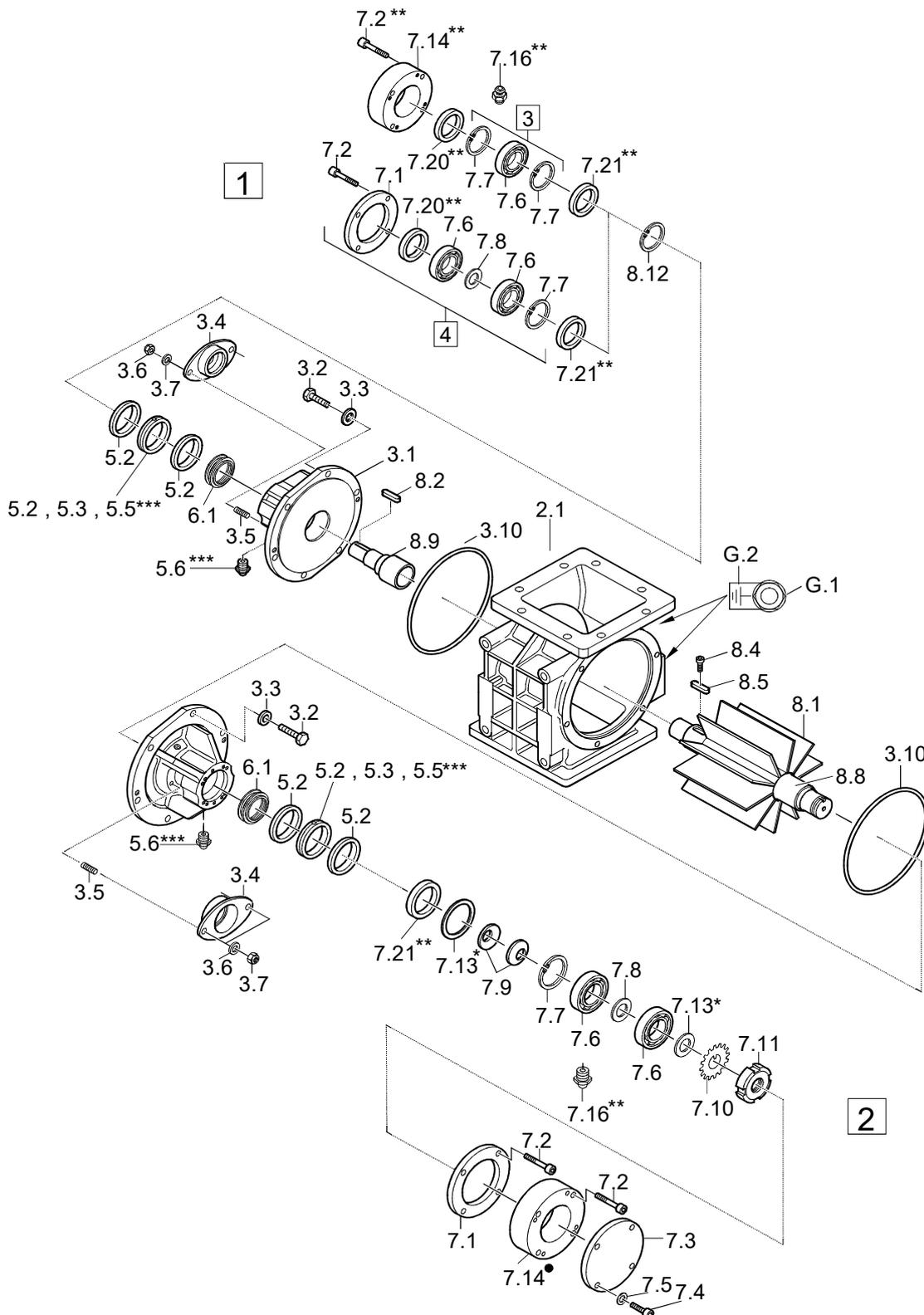
- Size 480 and above: **7.1**
- \* From size 320 only
- \*\* Additional for grease lubrication
- \*\*\* Depending on shaft seal

- 1** Drive end
- 2** Non-drive end
- 3** Up to size 400
- 4** Size 480 and above

Item	Designation	DIN	Quantity/unit	K*
<b>2</b>	<b>HOUSING</b>			
2.1	Housing ZK	-	1	
2.1	Housing ZG	-	1	
2.1	Housing ZP	-	1	
<b>3</b>	<b>SIDE COVER</b>			
3.1	Side cover	-	2	
3.2	Hexagon bolt	933	12 (size 200 to 320) 16 (size 400) 20 (size 480) 24 (size 550 to 630)	
3.3	Washer	125	12 (size 200 to 320) 16 (size 400) 20 (size 480) 24 (size 550 to 630)	
3.4	Gland	-	2	
3.5	Set screw	916	4	
3.6	Hexagon nut	934	4	
3.7	Washer	125	4	
3.9	Screw plug	906	4	
3.10	O-ring	-	2	V
<b>5</b>	<b>SHAFT SEAL</b>			
	<b>WLN/WLF</b>			
5.2	Shaft seal ring	-	4	V
5.3	Intermediate ring	-	2	E
	<b>WSN/WSF/WSG</b>			
5.2	Shaft seal ring	-	4	V
5.5	Lubricating ring	-	2	E
5.6	Lubricating nipple	-	2	
	<b>SL</b>			
5.2	Stuffing box packing	-	6	V
	<b>SS</b>			
5.2	Stuffing box packing	-	4	V
5.5	Lubricating ring	-	2	E
5.6	Lubricating nipple	71412	2	

\* E = Spare part; V = Wearing part

Rapid cleaning (.2 version)



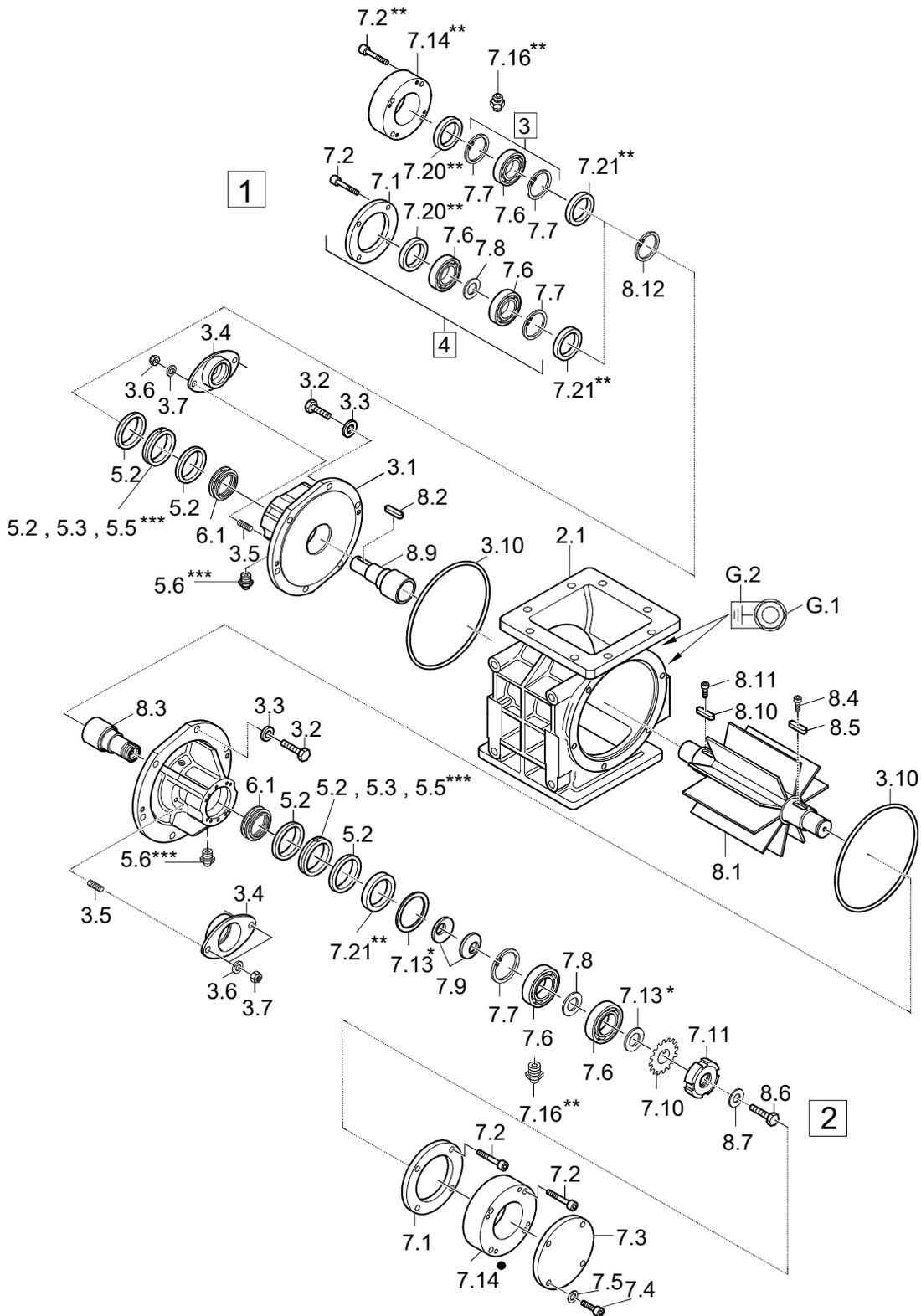
- Size 480 and above: **7.1**
- \* From size 320 only
- \*\* Additional for grease lubrication
- \*\*\* Depending on shaft seal

- 1** Drive end
- 2** Non-drive end
- 3** Up to size 400
- 4** Size 480 and above

Item	Designation	DIN	Quantity/unit	K*
<b>6</b>	<b>LABYRINTH RING</b>			
6.1	Labyrinth ring	-	2	V
<b>7</b>	<b>BEARING SET</b>			
	<b>Standard</b>			
7.1	Bearing ring	-	1 (3 from size 480)	E
7.2	Bolt	912	8 (12 from size 480)	
7.3	Cover plate	-	1	E
7.4	Hexagon bolt	912	4	
7.5	Washer	125	4	
7.6	Anti-friction bearing	625	3 (4 from size 480)	E
7.7	Retaining ring	472	3 (2 from size 480)	
7.8	Spacer	-	1 (2 from size 480)	E
7.9	Cup spring	-	2	E
7.10	Lock washer	-	1	E
7.11	Slotted nut	1804	1	E
7.12	Supporting ring	-	1 (from size 320)	
7.13	Spacer	-	1 (from size 320)	
7.14	Intermediate ring	-	1 (to size 400)	E
	<b>With grease lubrication</b>	-		
7.1	Bearing ring	-	1 (3 from size 480)	E
7.2	Bolt	912	12	
7.3	Cover plate	-	1	E
7.4	Bolt	912	4	
7.5	Washer	125	4	
7.6	Anti-friction bearing	625	3 (4 from size 480)	E
7.7	Retaining ring	472	3 (2 from size 480)	
7.8	Spacer	-	1 (2 from size 480)	E
7.9	Cup spring	-	2	E
7.10	Lock washer	-	1	E
7.11	Slotted nut	1804	1	E
7.13	Supporting ring	-	1 (from size 320)	
7.14	Intermediate ring	-	2 (to size 400)	E
7.16	Lubricating nipple	71412	2	
7.20	Shaft seal ring	-	1	V
7.21	Shaft seal ring	-	2	V

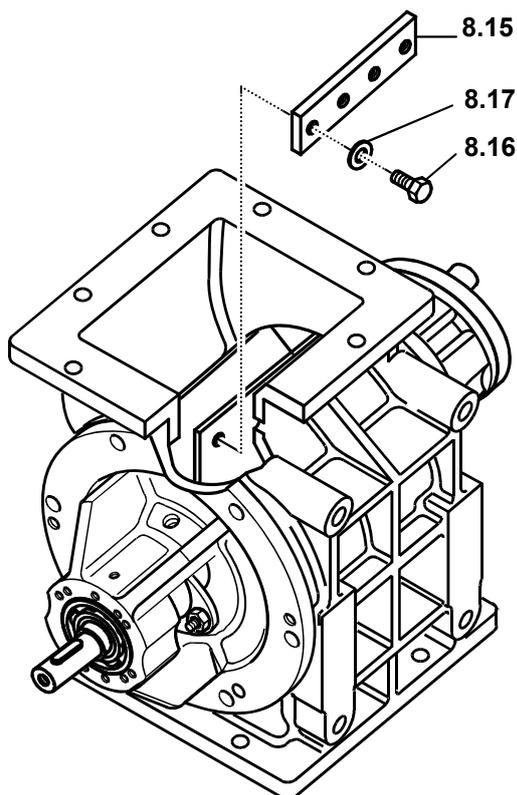
\* E = Spare part; V = Wearing part

Rapid cleaning (.3 version)



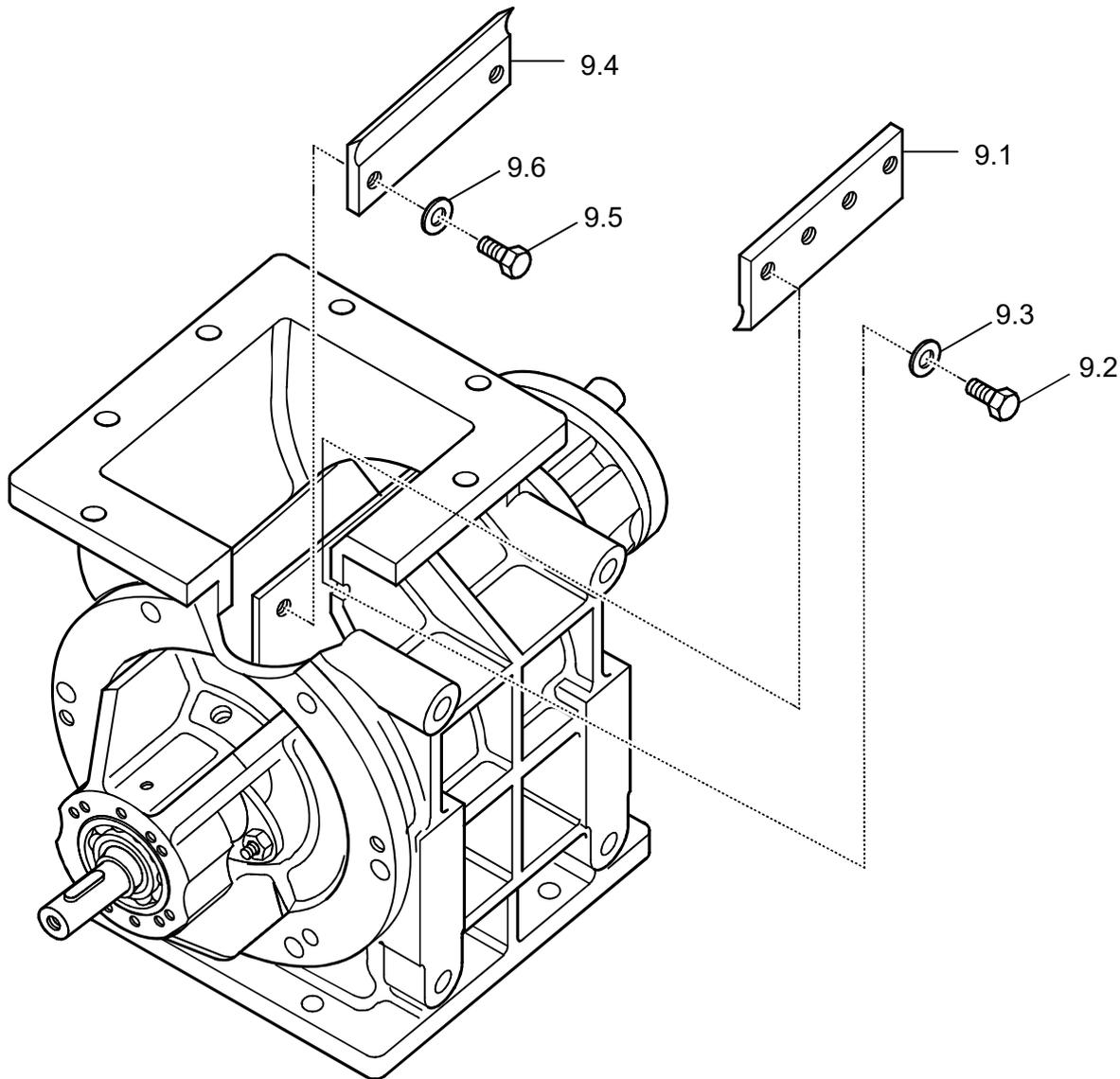
- Size 480 and above: **7.1**
- \* From size 320 only
- \*\* Additional for grease lubrication
- \*\*\* Depending on shaft seal

- 1** Drive end
- 2** Non-drive end
- 3** Up to size 400
- 4** Size 480 and above



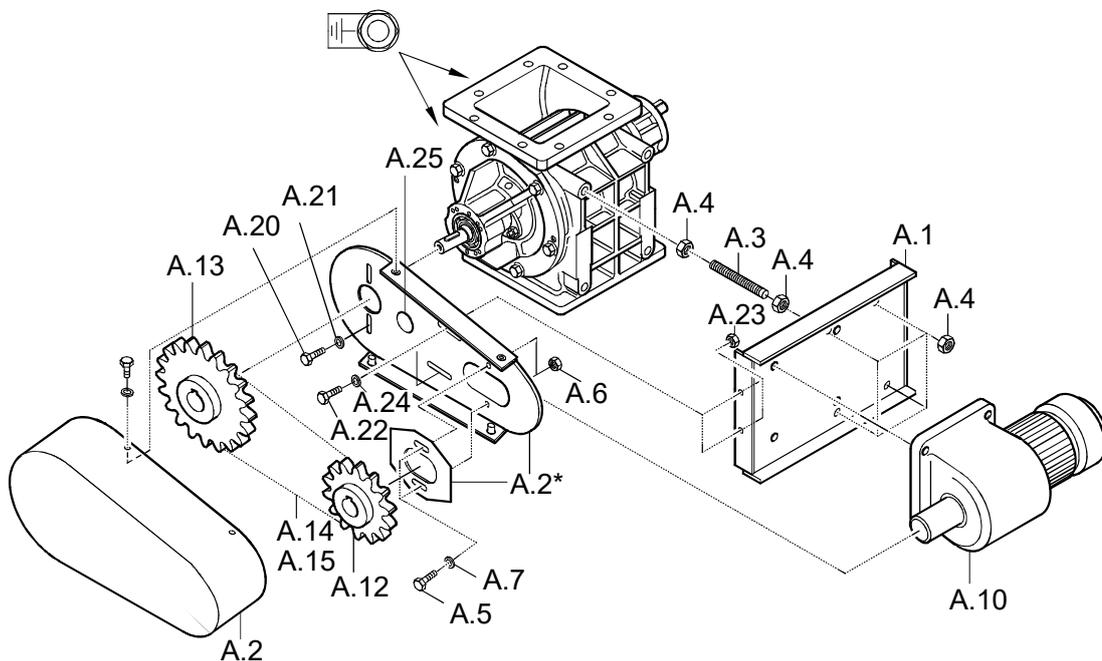
Item	Designation	DIN	Quantity/unit	K*
<b>8</b>	<b>STAR WHEEL</b>			
8.1	Star wheel	-	1	
8.2	Feather key	6885	1	
8.3	Sleeve		1 (only for .3 version)	E
8.4	Feather key	6885	1 (only for .3 version)	
8.5	Bolt	6912	1 (only for .3 version)	
8.6	Hexagon bolt	933	1 (only for .3 version)	
8.7	Seal ring		1 (only for .3 version)	V
8.8	Wearing sleeve		2 (option)	E
8.9	Drive sleeve		1 (not for .1 version)	E
8.10	Feather key	6885	1 (not for .1 version)	
8.11	Bolt	6912	1 (not for .1 version)	
8.12	Retaining ring	471	1 (not for .1 version)	
8.15	Wearing strip		-	V
8.16	Hexagon bolt	933	-	
8.17	Washer	125	-	
<b>G</b>	<b>EARTHING</b>			
G.1	Earthing screw, complete	-	2	
G.2	Earth mark	-	2	

\* E = Spare part; V = Wearing part



Item	Designation	DIN	Quantity/unit	K*
<b>9</b>	<b>SCRAPER KNIFE SET</b>			
	<b>Housing</b>			
9.1	Scraper knife	-	-	V
9.2	Hexagon bolt	933	-	
9.3	Washer	125	-	
	<b>Star wheel</b>			
9.4	Scraper knife	-	-	V
9.5	Hexagon bolt	933	-	
9.6	Washer	125	-	

\* E = Spare part; V = Wearing part



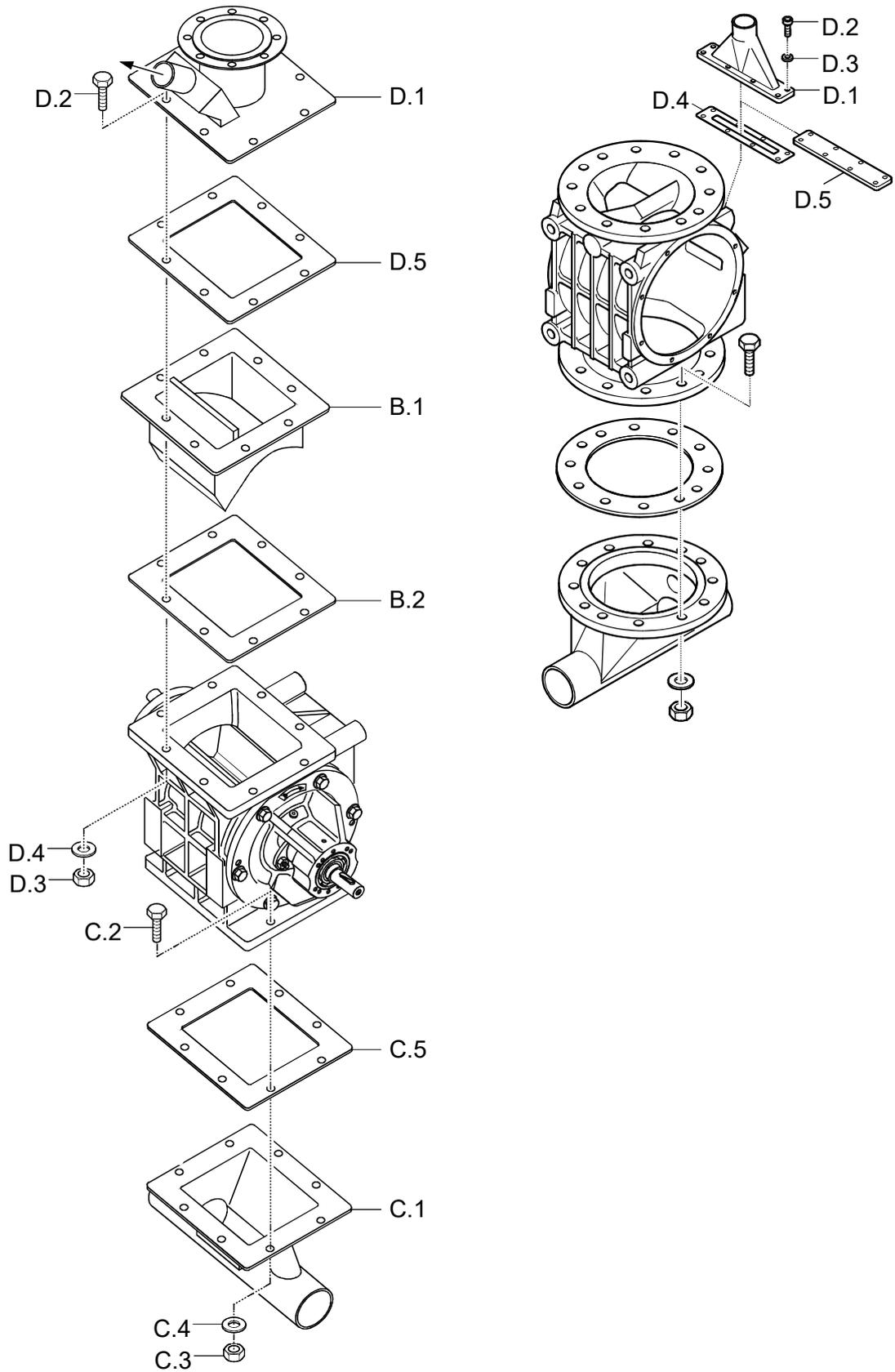
\* to A.2

Item	Designation	DIN	Quantity/unit	K*
<b>A</b>	<b>MOTOR ATTACHMENT</b>			
	<b>Geared motor with chain drive</b>			
A.1	Motor base plate	-	1	
A.2	Chain guard complete	-	1	
A.3	Threaded rod	-	4	
A.4	Hexagon nut	934	12	
A.5	Hexagon bolt	933	4	
A.6	Hexagon nut	934	4	
A.7	Washer	125	8	
A.10	Geared motor	-	1	
A.12	Motor sprocket wheel	-	1	
A.13	Rotary valve sprocket wheel	-	1	
A.14	Chain	8187	1	V
A.15	Shackle type connector	-	1	V
A.20	Hexagon bolt	933	2	
A.21	Washer	125	2	
A.22	Hexagon bolt	933	2	
A.23	Hexagon nut	934	2	
A.24	Washer	125	2	
A.25	Grommet	-	1	

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Type ZK\_

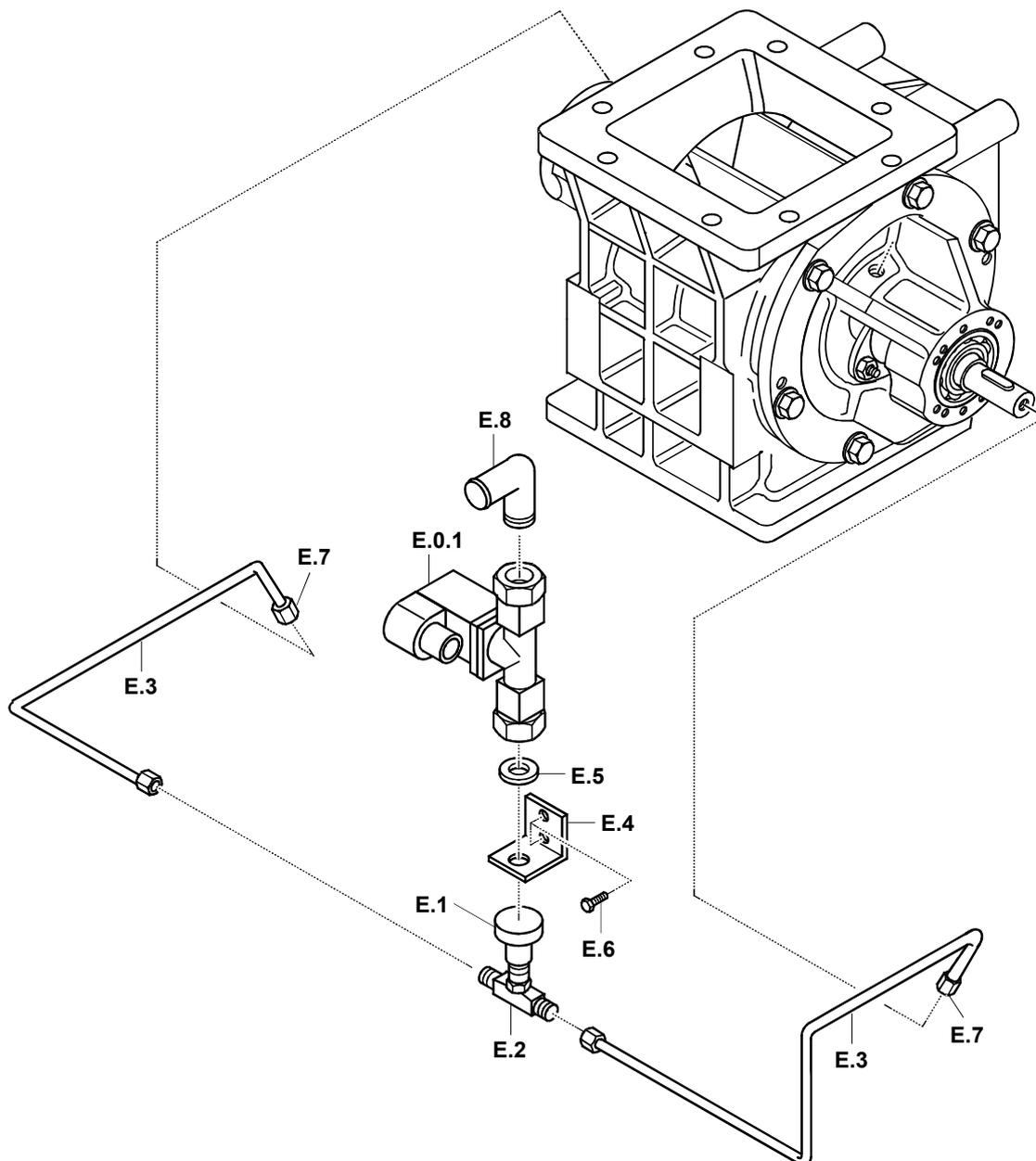
Type ZP\_/ZG\_



Item	Designation	DIN	Quantity/unit	K*
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<b>B</b>	<b>INLET PLATE</b>			
B.1	Powder inlet plate	-	1	
B.2	Gasket	-	1	
<b>C</b>	<b>PICK-UP TEE</b>			
	<b>Type ZK_</b>			
C.1	Pick-up tee	-	1	
C.2	Hexagon bolt	933	-	
C.3	Hexagon nut	934	-	
C.4	Washer	125	-	
C.5	Gasket	-	1	
	<b>Type ZP_/ZG_</b>			
C.1	Pick-up tee	-	1	
C.2	Hexagon bolt	933	-	
C.3	Hexagon nut	934	-	
C.4	Washer	125	-	
C.5	Gasket	-	1	
<b>D</b>	<b>GAS VENTING DEVICE/ GAS LEAKAGE CONNECTION</b>			
D.1	<b>Gas venting device ZK_</b>	-	1	
D.2	Hexagon bolt	933	-	
D.3	Hexagon nut	934	-	
D.4	Washer	125	-	
D.5	Gasket	-	1	
D.1	<b>Gas leakage connection ZG_</b>	-	1	
D.2	Bolt		-	
D.3	Washer		-	
D.4	Gasket		1	
D.5	Blank flange		1	
D.1	<b>Gas leakage connection ZP_</b>	-	1	
D.2	Hexagon bolt		-	
D.3	Washer		-	
D.4	Gasket		1	
D.5	Blank flange		1	

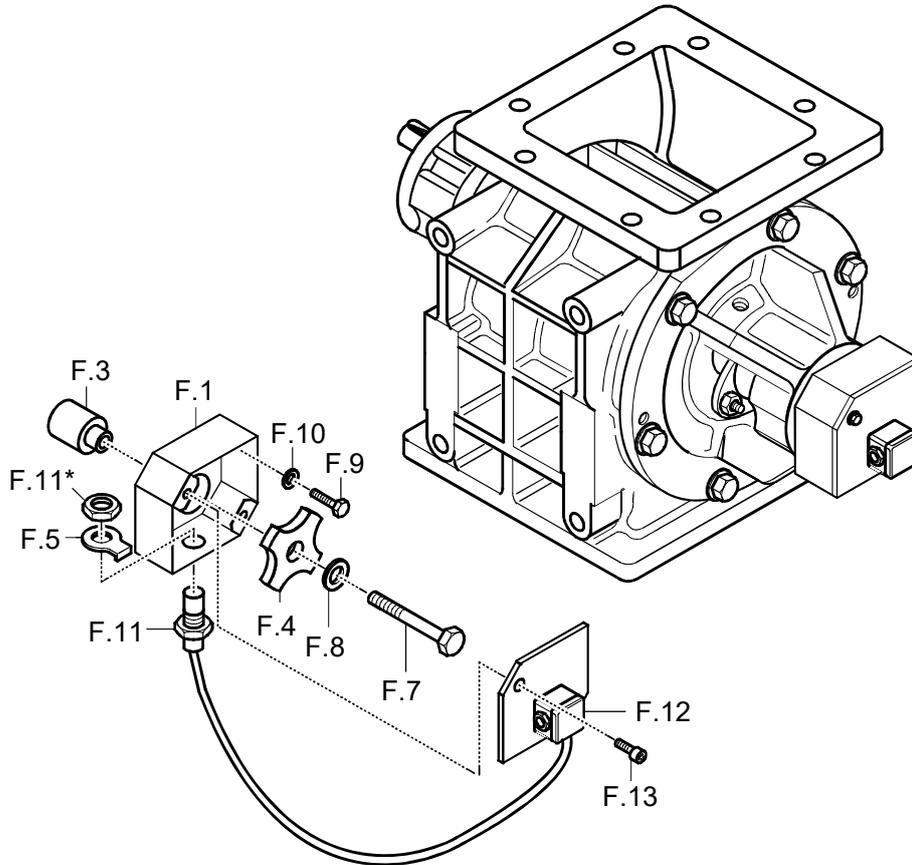
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Item	Designation	DIN	Quantity/unit	K*
<b>E</b>	<b>GASLOCK</b>			
E.0.1	Solenoid valve	-	1	E
E.1	Bushing	-	1	
E.2	Tube fitting TE	-	1	
E.3	Tube	1786	1	
E.4	Bracket	-	1	
E.5	Seal ring	-	1	
E.6	Hexagon bolt	933	1	
E.7	Tube fitting GE	-	2	
E.8	Angle 90°	-	1	

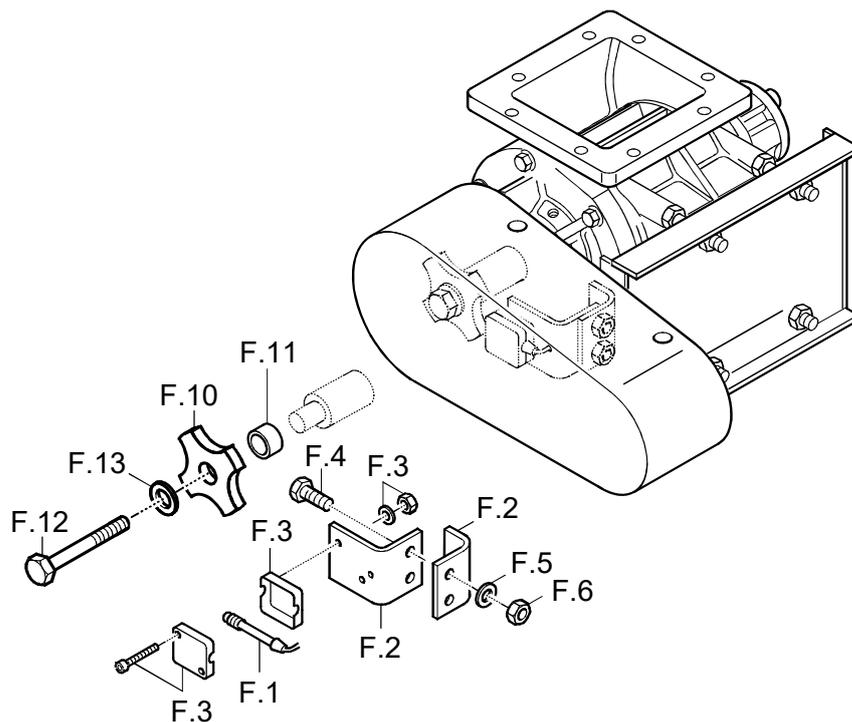
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**Speed monitor, non-drive end**



\* = to F.11

**Speed monitor, in chain guard**



Item	Designation	DIN	Quantity/unit	K*
<b>F</b>	<b>SPEED MONITOR</b>			
	<b>Non-drive end</b>			
F.1	Housing	-	1	
F.3	Bush	-	1	
F.4	Pulse wheel	-	1	
F.5	Safety washer	93	1	
F.7	Hexagon bolt	933	1	
F.8	Washer	9021	1	
F.9	Hexagon bolt	933	2	
F.10	Washer	125	2	
F.11	Proximity switch	-	1	E
F.12	Terminal box	-	1	
F.13	Bolt	912	2	
	<b>In chain guard</b>			
F.1	Proximity switch		1	E
F.2	Speed monitor carrier		1	
F.3	Mounting flange		1	
F.4	Hexagon bolt		4	
F.5	Washer		4	
F.6	Hexagon nut		4	
F.10	Pulse wheel		1	

F.11	Bush		1	
F.12	Hexagon bolt		1	
F.13	Washer		1	

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