

**E-8.181.2.321.173.9**

Rev. 00 (08/2020) - en

## Spare parts catalog

**COMPRESSOR SET  
VV180-T 2.0**

**KNORR-BREMSE**





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## Technical changes

KNORRBREMSE SfS reserves the right to change products or this document at any time without giving special notice.

In the case of changes to products, this spare parts catalogue is no longer valid.

## Ordering spare parts

It is necessary to use the latest spare parts catalogue when ordering spare parts.

If you discover that parts need to be renewed, only **KNORR-BREMSE original parts** are to be used.

The installation of spares other than approved may impair the safety and reliability of the given unit and overall system and invalidates any warranty on the part of KB.

When ordering, please note that the quantities refer only to the individual parts that are considered in the relevant chapter of the spare parts catalogue. The total amount required for the overhaul of the product is computed by multiplying these figures by the quantities of the individual parts in the higher-level assembly.

## Wearing parts category:

Meanings of the letters in the WEC (wearing code) column of the following tables:

WEC	Definition
A	These parts must always be replaced upon removal.
B	These parts must be replaced at every overhaul.
C	These parts must then be replaced or reconditioned if they have worn so severely that the unit cannot be guaranteed to function reliably with them until the next overhaul. If necessary, further information on testing these parts can be found in the overhaul instructions.
D	These parts must be replaced at every service and every overhaul.
	Parts that do not have a WEC code must be visually inspected. If damage is found on the parts, they must be replaced.

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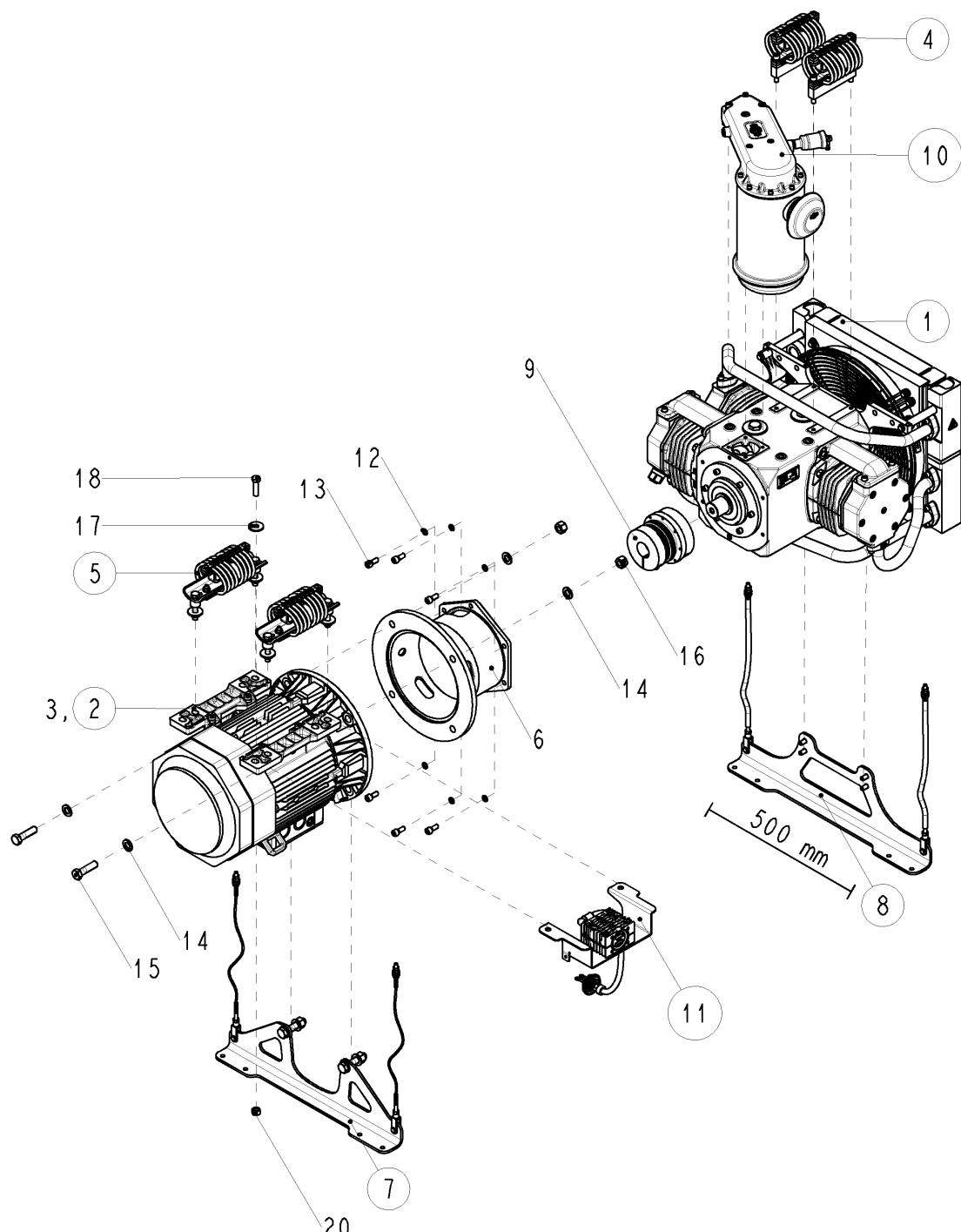
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**Original parts kits (OPK) belonging to the unit**

KIT-No.	Type	Additional text	Item number	Name
OPK02821	Overhaul kit	UEBERHOLUNG NEUTEILBASIS	8.181.0.077.024.7	OP. HOUR COUNTER
OPK04221	Overhaul kit		8.000.0.923.748.9	DRY-TYPE AIR FILT.
OPK04222	Overhaul kit	FILTER 8.000.8.923.716.5	8.000.0.923.747.6	DRY-TYPE AIR FILT.
OPK04223	Overhaul kit	FILTER 8.000.8.923.717.5	8.000.0.923.747.6	DRY-TYPE AIR FILT.
OPK04248	Overhaul kit	NEUTEILBASIS	8.000.0.923.748.9	DRY-TYPE AIR FILT.
OPK02019	Overhaul kit	O-8 / NEW, FROM GENERATION G	8.181.0.G72.740.6	THREE-PHASE MOTOR



## T0: COMPRESSOR SET



E T - 8.181.2.321.173.9

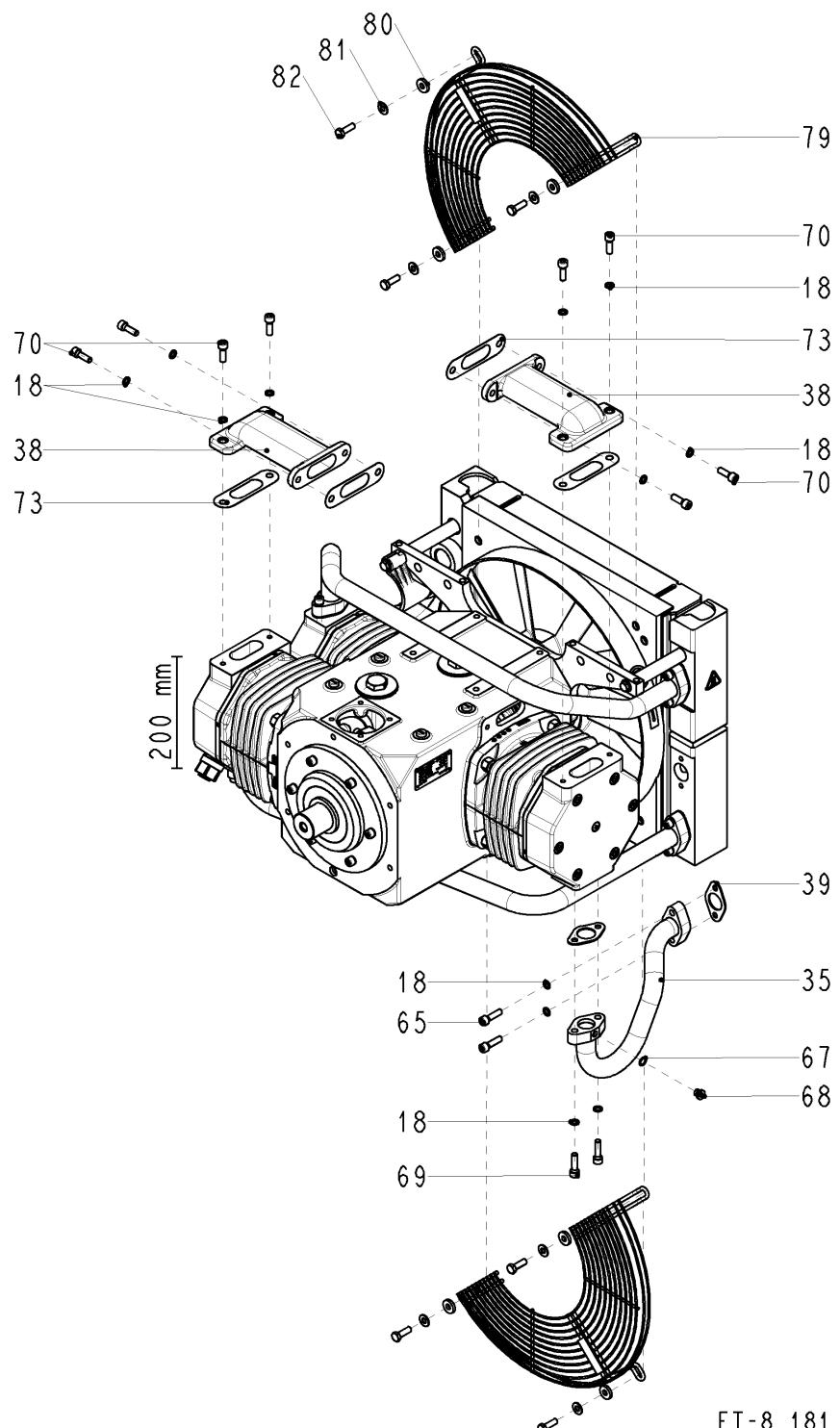
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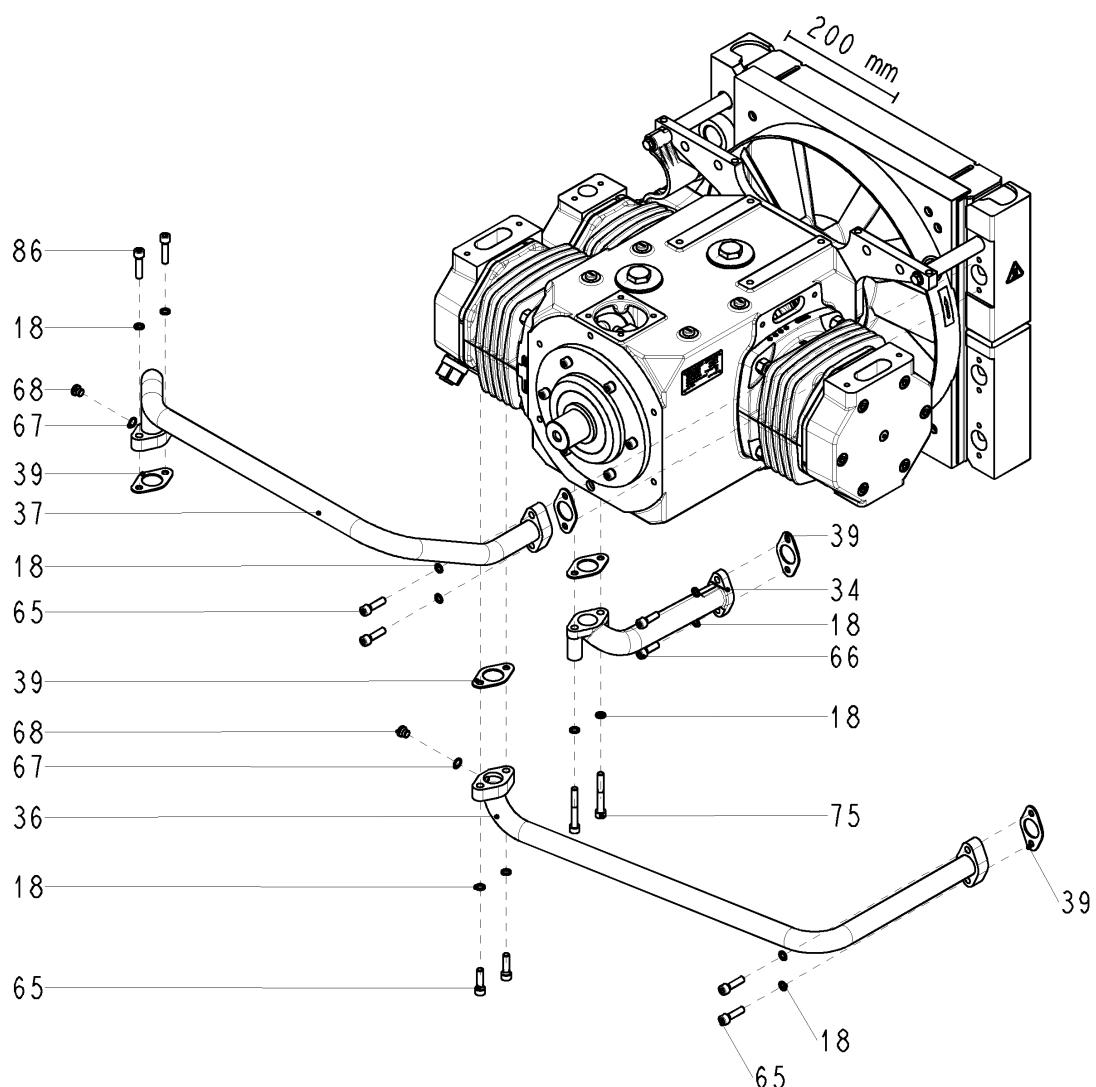
Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.2.321.173.9</b>			<b>COMPRESSOR SET</b>			
1	8.181.2.321.S00.9	1	Pce	COMPRESSOR VV180-T 2.0			7
2	8.181.0.G72.740.6	1	Pce	THREE-PHASE MOTOR			24
3	8.000.0.014.702.4	1	Pce	PLATE			
4	8.181.0.085.022.7	2	Pce	RESILIENT MOUNTING			26
5	8.181.0.085.045.7	2	Pce	RESILIENT MOUNTING			28
6	8.271.0.652.001.4	1	Pce	INTERM.FLANGE			
7	II98976/0540	1	Pce	RESTRAINER			30
8	II104688/0540	1	Pce	RESTRAINER VV180-T			32
9	8.271.0.700.002.5	1	Pce	COUPLING			
10	8.000.0.923.748.9	1	Pce	DRY-TYPE AIR FILT.			34
11	8.181.0.077.024.7	1	Pce	OP. HOUR COUNTER			40
12	469659	6	Pce	SPRING WASHER	Z10	A	
13	458012	6	Pce	MACHINE SCREW	M10X25	B	
14	477181	4	Pce	WASHER	16	B	
15	469494	2	Pce	HEX HEAD BOLT	M16X60	B	
16	474846	2	Pce	HEX NUT	M16	B	
17	478358	1	Pce	WASHER	12	B	
18	476171	1	Pce	HEXAGON HEAD SCREW	M12X45	B	
20	474847	1	Pce	HEXAGON NUT	M12	B	

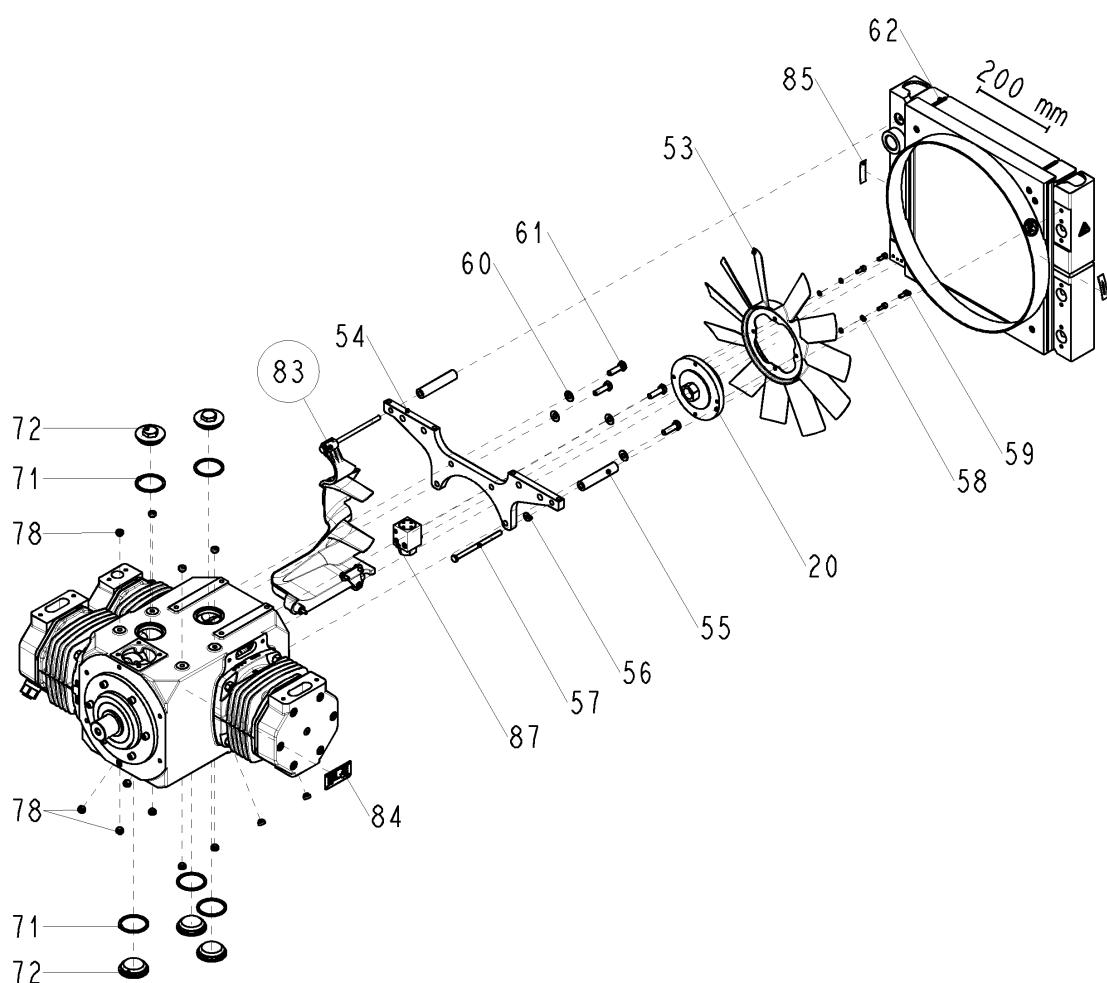


## T1: COMPRESSOR

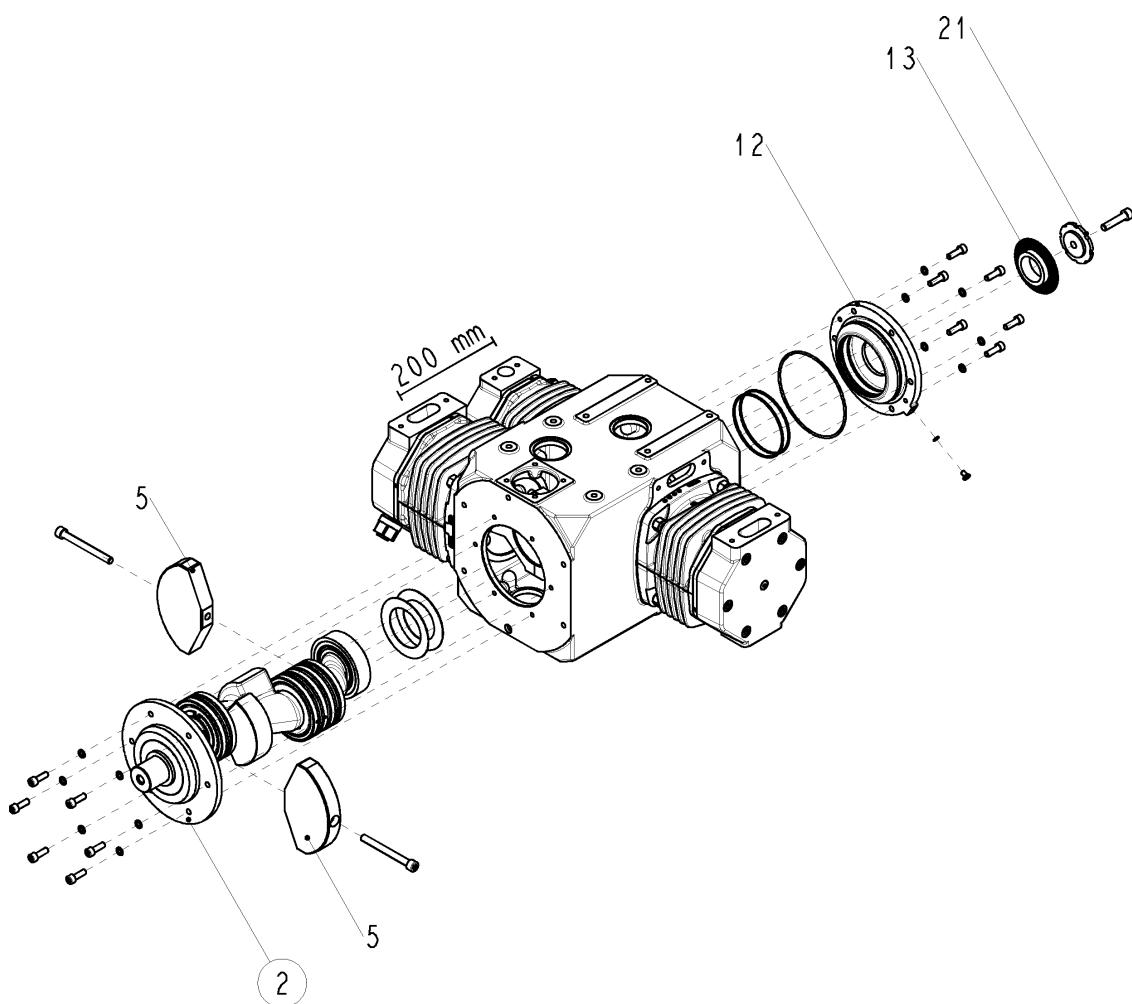


**T1: COMPRESSOR**

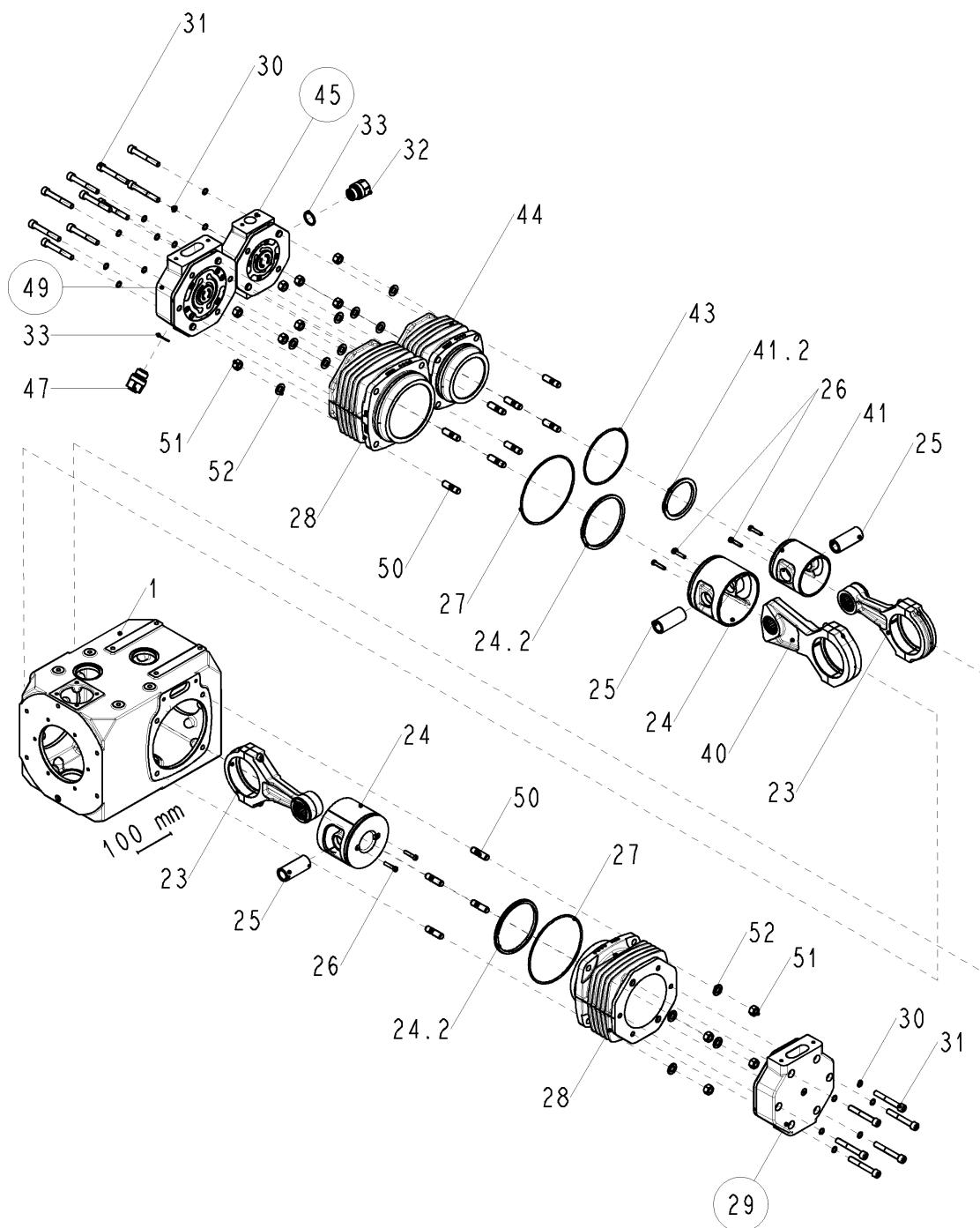
ET-8.181.2.321.S00.9

**T1: COMPRESSOR**

ET-8.181.2.321.S00.9

**T1: COMPRESSOR**

ET-8.181.2.321.S00.9

**T1: COMPRESSOR**

ET-8.181.2.321.S00.9

**T1 – Ordering information:**

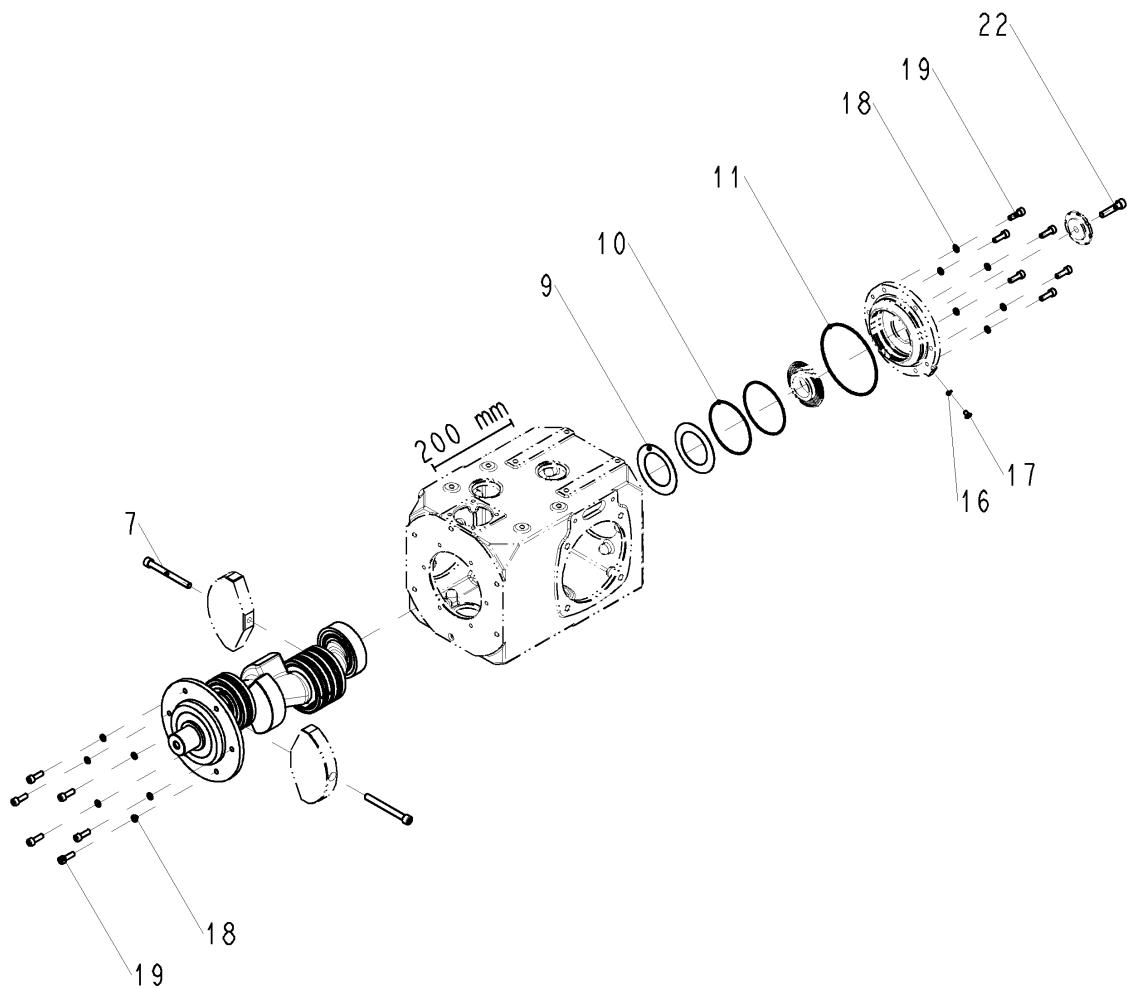
Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
	<b>8.181.2.321.S00.9</b>			<b>COMPRESSOR</b>			
1	8.181.0.111.002.4	1	Pce	CRANKCASE			
2	8.181.8.140.001.7	1	Pce	PARTS SET CRANKSHAFT PREASSEMBLED			14
5	8.121.0.670.001.4	2	Pce	COMPENSAT. WEIGHT			
12	8.181.0.420.001.4	1	Pce	BEARING BOX			
13	8.181.0.340.001.4	1	Pce	BEARING RING			
18	469658	24	Pce	SPRING WASHER	Z08	A	
20	8.181.0.035.001.6	1	Pce	VISCOUS COUPLING		C	
21	8.120.0.473.014.4	1	Pce	ADAPTER			
23	8.181.8.150.006.7	2	Pce	PARTS SET CON ROD PREASSEMBLED			
24	8.181.0.160.012.7	2	Pce	PISTON		C	
24.2	8.181.0.347.011.4	2	Pce	PISTON RING		B	
25	8.181.0.311.003.6	3	Pce	GUDGEON PIN		B	
26	478933	6	Pce	MACHINE SCREW	M6X30	A	
27	469057	2	Pce	O-RING	150X4,00-N	A	
28	8.181.0.133.016.4	2	Pce	CYLINDER		C	
29	8.181.0.181.002.7	1	Pce	CYLINDER HEAD			16
30	453778	16	Pce	SEALING RING	A10X13,5	A	
31	470095	16	Pce	MACHINE SCREW	M10X75	B	
32	8.000.0.766.001.7	1	Pce	RELIEF VALVE		B	
33	453850	2	Pce	SEALING RING	A26X31	A	
34	8.181.0.921.013.4	1	Pce	AIR PIPE			
35	8.181.0.919.002.5	1	Pce	AIR PIPE			
36	8.181.0.919.004.5	1	Pce	AIR PIPE			
37	8.181.0.919.005.5	1	Pce	AIR PIPE			
38	8.181.0.919.001.4	2	Pce	AIR PIPE			
39	8.890.0.852.003.4	8	Pce	GASKET		A	
40	8.181.8.150.005.7	1	Pce	PARTS SET CON ROD PREASSEMBLED			
41	8.181.0.160.013.7	1	Pce	PISTON		B	
41.2	8.181.0.347.012.4	1	Pce	PISTON RING		B	
43	ORC1180000	1	Pce	O-RING	118X3,55	A	
44	8.181.0.133.015.4	1	Pce	CYLINDER		B	

**T1 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
45	8.181.0.181.004.7	1	Pce	CYLINDER HEAD			18
47	8.000.0.766.002.7	1	Pce	RELIEF VALVE		B	
49	8.181.0.181.003.7	1	Pce	CYLINDER HEAD			20
50	478668	12	Pce	STUD	M12X30		
51	469369	12	Pce	HEXAGON NUT	M12	B	
52	474850	12	Pce	WASHER	12	B	
53	8.120.0.401.005.5	1	Pce	FAN WHEEL			
54	8.120.0.608.001.4	1	Pce	BRACKET			
55	8.120.0.942.003.4	2	Pce	PIPE			
56	469646	1	Pce	SPRING WASHER	M08	A	
57	478661	1	Pce	HEXAGON HEAD SCREW	M8X130	B	
58	469657	4	Pce	SPRING WASHER	Z06	A	
59	477349	4	Pce	MACHINE SCREW	M6X16	B	
60	469647	4	Pce	SPRING WASHER	M10	A	
61	474007	4	Pce	HEXAGON HEAD SCREW	M10X35	B	
62	8.181.0.940.009.5	1	Pce	COOLER			
65	470573	6	Pce	MACHINE SCREW	M8X30	B	
66	475252	2	Pce	MACHINE SCREW	M8X25	B	
67	453778	3	Pce	SEALING RING	A10X13,5	A	
68	467040	3	Pce	SCREW PLUG	M10X1	B	
69	470573	4	Pce	MACHINE SCREW	M8X30	B	
70	475252	8	Pce	MACHINE SCREW	M8X25	B	
71	453899	5	Pce	SEALING RING	A52X60	A	
72	478651	5	Pce	SCREW PLUG	CM52X1,5	B	
73	8.181.0.851.001.4	4	Pce	GASKET		A	
75	478420	2	Pce	MACHINE SCREW	M8X60	B	
78	B80434/11	12	Pce	SCREW PLUG		B	
79	8.121.0.995.001.5	2	Pce	PROTECTIVE GRATING			
80	474711	6	Pce	WASHER	8,4	B	
81	469646	6	Pce	SPRING WASHER	M08	A	
82	470452	6	Pce	HEXAGON HEAD SCREW	M8X25	B	
83	8.181.0.753.010.7	1	Pce	AIR CIRCULATION			22
84	8.000.0.014.705.7	1	Pce	PLATE			
85	8.0596.01.0.5401	2	Pce	PLATE			
86	476302	2	Pce	MACHINE SCREW	M8X35	B	
87	II95886/02	1	Pce	DRAIN VALVE			



## T2: PARTS SET

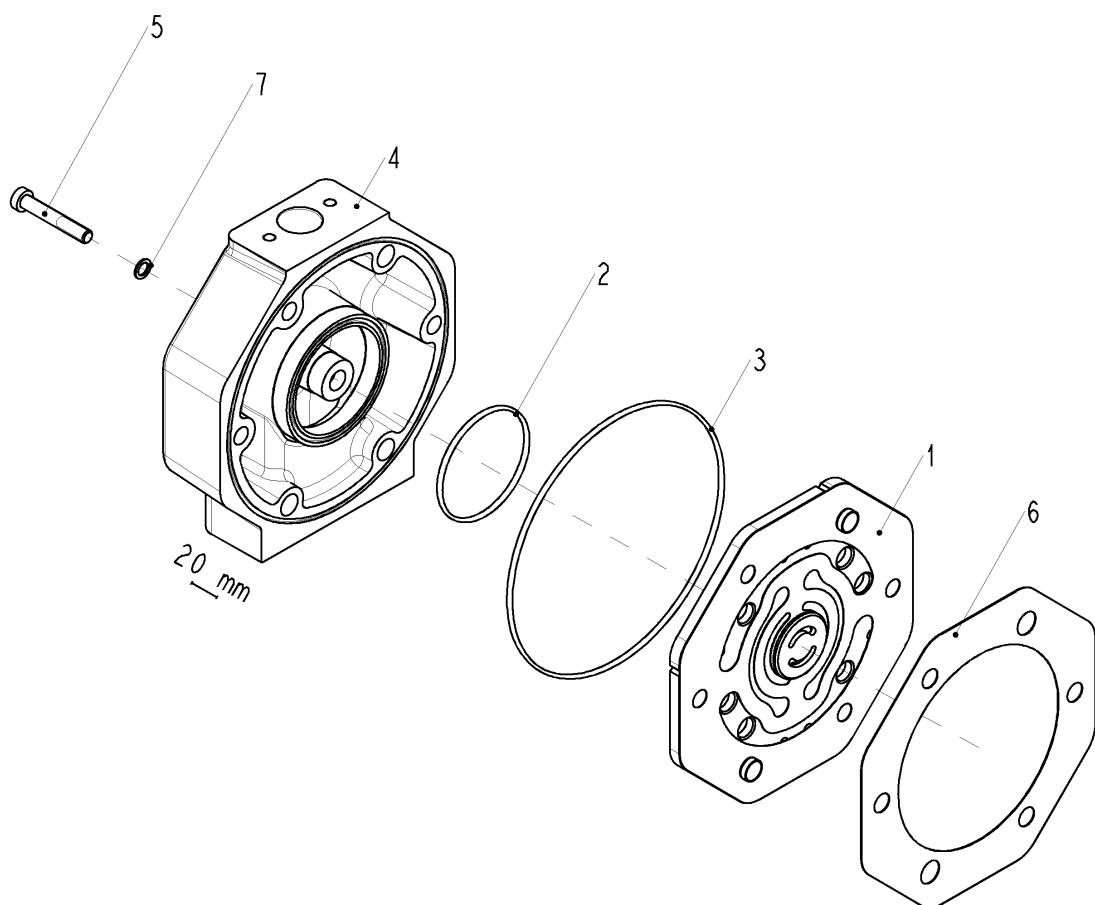


ET-8.181.8.140.001.7

**T2 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.8.140.001.7</b>			<b>PARTS SET</b>			
7	478932	2	Pce	MACHINE SCREW	M10X100	A	
9	8.120.0.990.001.4	2	Pce	BELLEVILLE SPRING			
10	A43980	2	Pce	O-RING		A	
11	ORC1360000	1	Pce	O-RING	136X3,55	A	
16	458154	1	Pce	SEALING RING	A6,5X9,5	A	
17	478669	1	Pce	HEXAGON HEAD SCREW	M6X8	B	
18	469658	12	Pce	SPRING WASHER	Z08	A	
19	451609	12	Pce	MACHINE SCREW	M8X25	B	
22	468647	1	Pce	MACHINE SCREW	M10X45	B	

**T3: CYLINDER HEAD**

ET-8.181.0.181.002.7

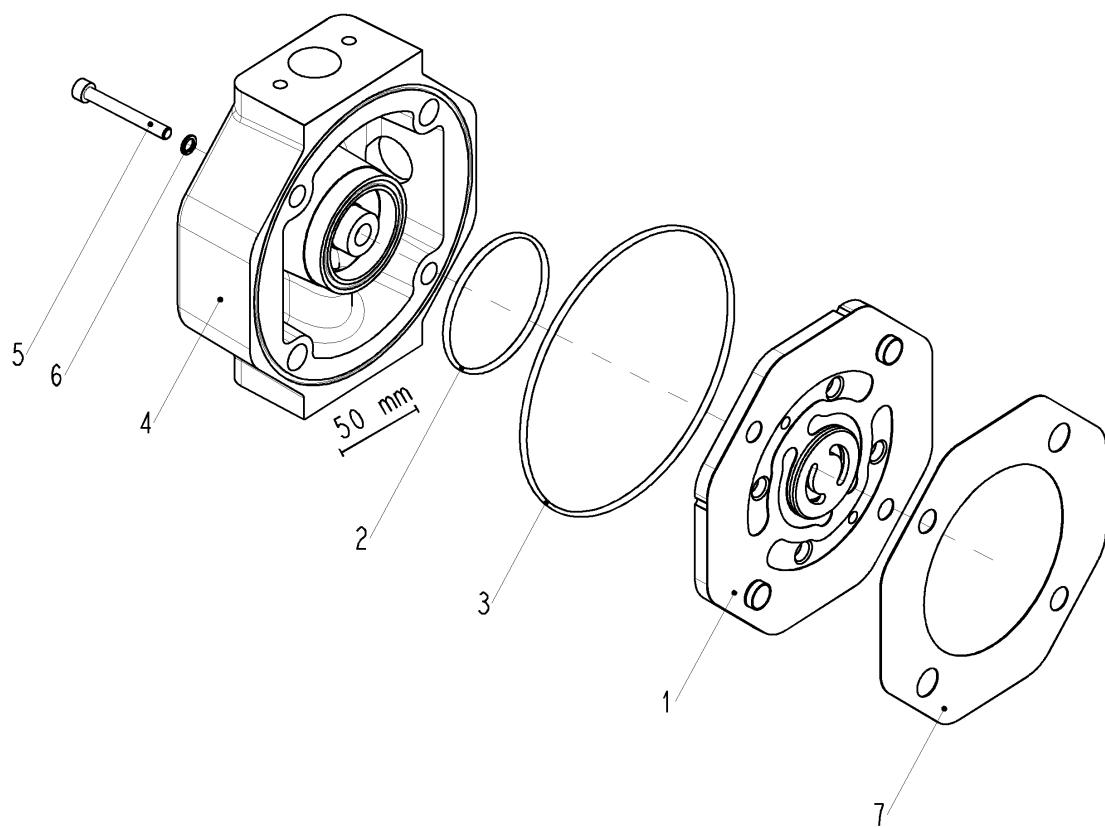
**T3 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.0.181.002.7</b>			<b>CYLINDER HEAD</b>			
1	8.181.0.461.010.6	1	Pce	DISC VALVE		B	
2	C160077/5	1	Pce	O-RING		A	
3	C160077/10	1	Pce	O-RING		A	
4	8.181.0.181.002.4	1	Pce	CYLINDER HEAD			
5	477000	1	Pce	MACHINE SCREW	M8X50	B	
6	8.181.0.854.003.4	1	Pce	CYL.HEAD GASKET		A	
7	8114010194	1	Pce	SEALING RING	A8X12	A	



## T4: CYLINDER HEAD



ET-8.181.0.181.004.7

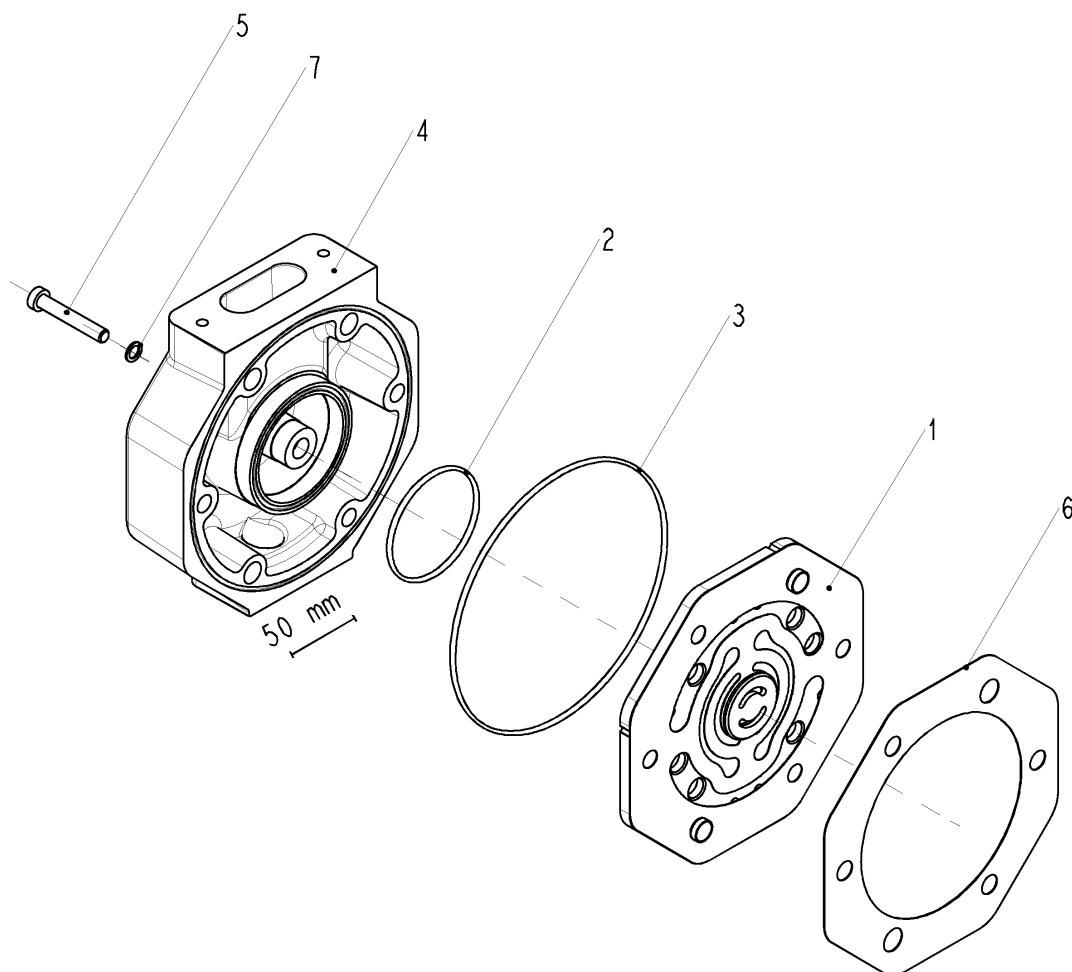
**T4 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.0.181.004.7</b>			<b>CYLINDER HEAD</b>			
1	8.181.0.461.007.6	1	Pce	DISC VALVE		B	
2	C160077/3	1	Pce	O-RING		A	
3	C160077/9	1	Pce	O-RING		A	
4	8.181.0.181.004.4	1	Pce	CYLINDER HEAD			
5	467560	1	Pce	MACHINE SCREW	M6X50	B	
6	459166	1	Pce	SEALING RING	A6,5X9,5	A	
7	8.181.0.854.004.4	1	Pce	CYL.HEAD GASKET		A	



## T5: CYLINDER HEAD

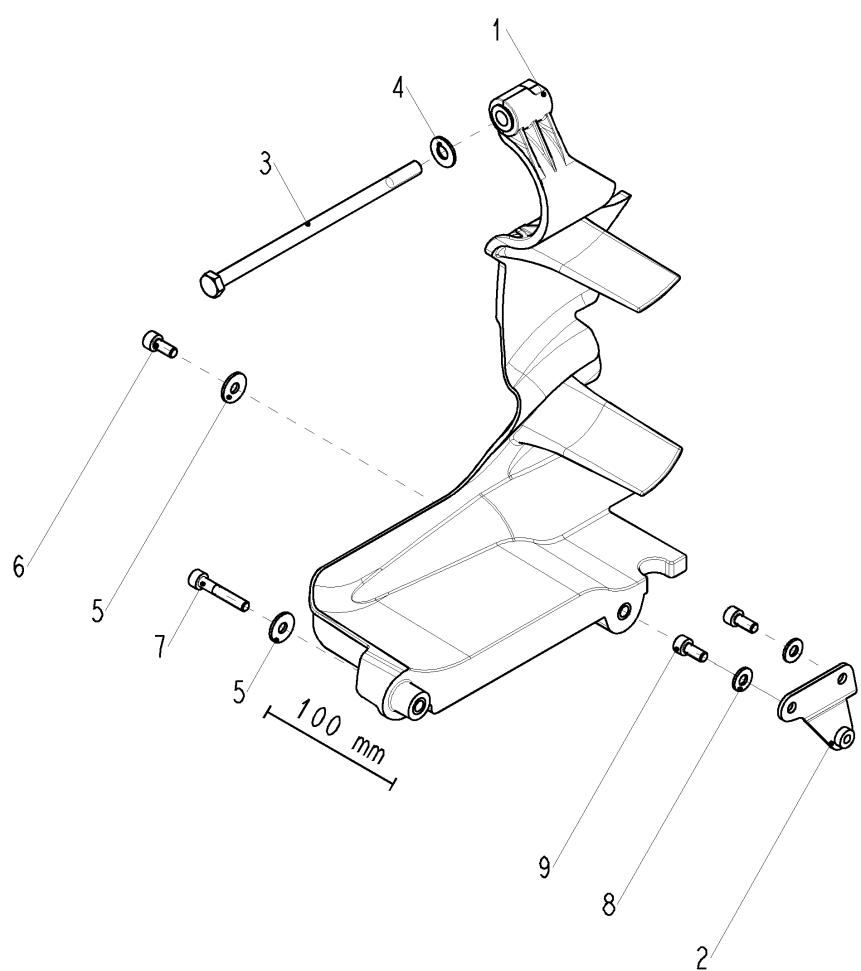


ET-8.181.0.181.003.7

**T5 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.0.181.003.7</b>			<b>CYLINDER HEAD</b>			
1	8.181.0.461.010.6	1	Pce	DISC VALVE		B	
2	C160077/5	1	Pce	O-RING		A	
3	C160077/10	1	Pce	O-RING		A	
4	8.181.0.181.003.4	1	Pce	CYLINDER HEAD			
5	477000	1	Pce	MACHINE SCREW	M8X50	B	
6	8.181.0.854.003.4	1	Pce	CYL.HEAD GASKET		A	
7	8114010194	1	Pce	SEALING RING	A8X12	A	

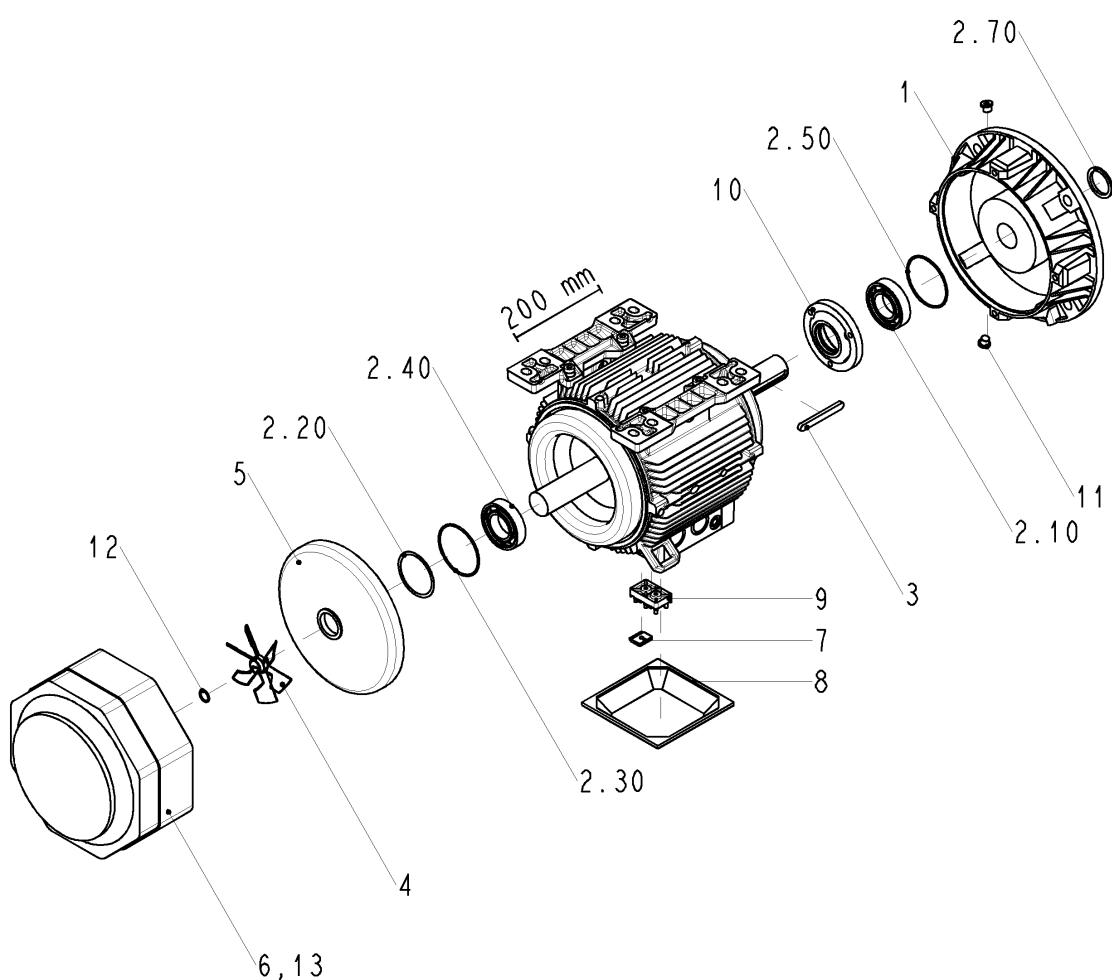
**T6: AIR CIRCULATION**

ET-8.181.0.753.010.7

**T6 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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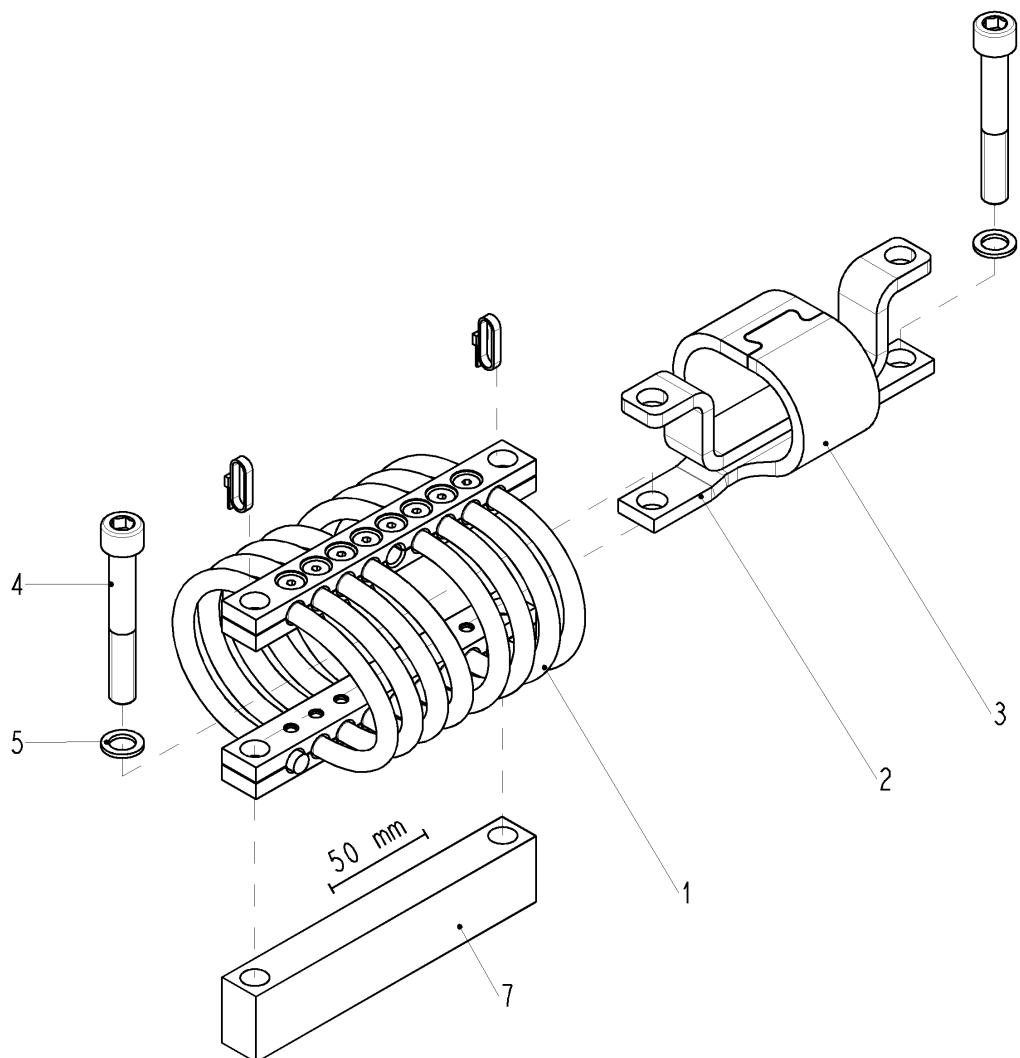
	<b>8.181.0.753.010.7</b>			<b>AIR CIRCULATION</b>			
1	8.181.0.753.010.5	1	Pce	AIR CIRCULATION		C	
2	8.181.0.637.034.5	1	Pce	HOLDER			
3	477674	1	Pce	HEXAGON HEAD SCREW	M8X160	B	
4	469646	1	Pce	SPRING WASHER	M08	A	
5	7M6301027	2	Pce	WASHER	6	B	
6	478598	1	Pce	MACHINE SCREW	M6X14	B	
7	478635	1	Pce	MACHINE SCREW	M6X35	B	
8	C149956	2	Pce	WASHER		B	
9	478598	2	Pce	MACHINE SCREW	M6X14	B	

**T7: THREE-PHASE MOTOR**

ET-8.181.0.G72.740.6

**T7 – Ordering information:**

Pos. OEM/OPK	Part is contained in	Item number	Quantity OEM/OPK	Unit	Name	WEC	Page
		8.181.0.G72.740.6			<b>THREE- PHASE MOTOR</b>		
1	-	C219295	1	Pce	END BRACKET		
2.10	010	OPK02019	1	Pce	BEARING		
2.20	020	OPK02019	1	Pce	SPRING WASHER		
2.30	030	OPK02019	1	Pce	O-RING		
2.40	040	OPK02019	1	Pce	BEARING		
2.50	050	OPK02019	1	Pce	O-RING		
2.70	070	OPK02019	2	Pce	V-RING	B	
3	-	C219296	1	Pce	FEATHER KEY		
4	-	C219298	1	Pce	FAN		
5	-	C219299	1	Pce	END BRACKET		
6	-	C219300	1	Pce	FAN HOOD		
7	-	C219301	1	Pce	CONNECTING PART		
8	-	C219302	1	Pce	COVER		
9	-	C219308	1	Pce	TERMINAL BOARD		
10	-	C219303	1	Pce	BEARING CAP		
11	-	C219304	2	Pce	DRAIN PLUG		
12	-	C219305	1	Pce	RETAINING RING		
13	-	KP0580524	2	Pce	PLUG		

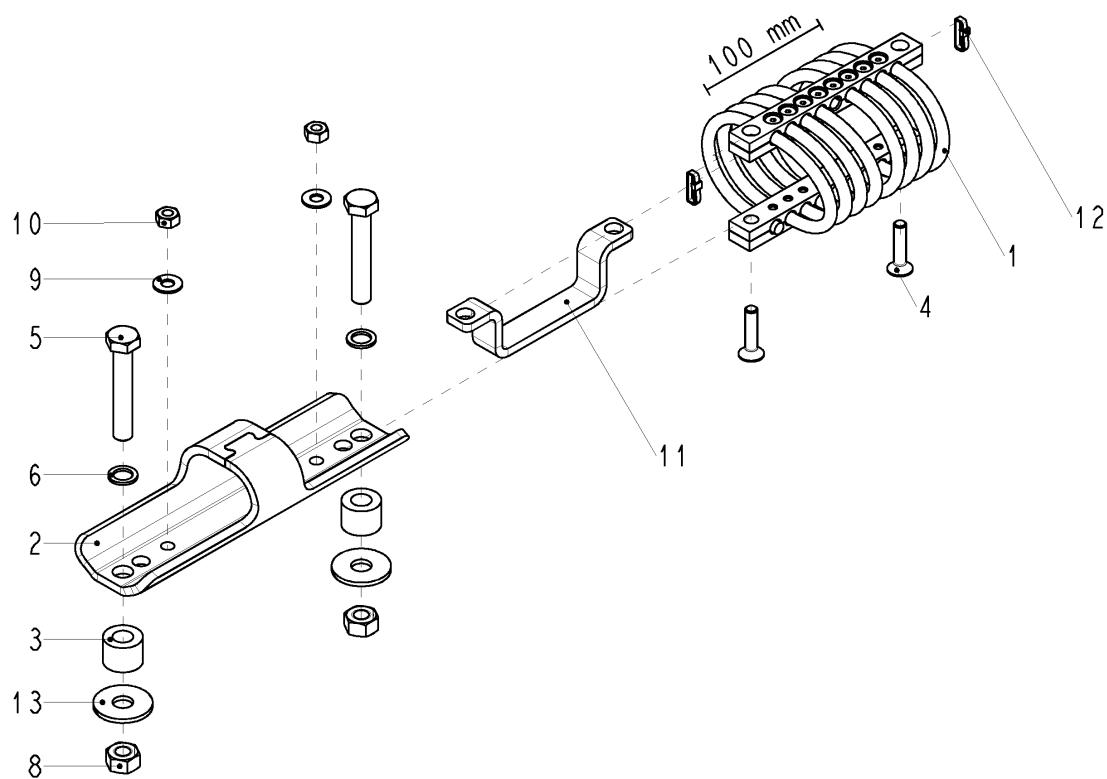
**T8: RESILIENT MOUNTING**

ET-8.181.0.085.022.7

**T8 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.0.085.022.7</b>			<b>RESILIENT MOUNTING</b>			
1	8.180.0.085.001.6	1	Pce	SPRING ELEMENT		C	
2	8.120.0.995.052.4	1	Pce	STROKE LIMIT			
3	8.120.0.653.003.4	1	Pce	BAR			
4	469798	2	Pce	MACHINE SCREW	M10X70	B	
5	469659	2	Pce	SPRING WASHER	Z10	A	
7	8.181.0.650.020.4	1	Pce	STRIP			

**T9: RESILIENT MOUNTING**

ET-8.181.0.085.045.7

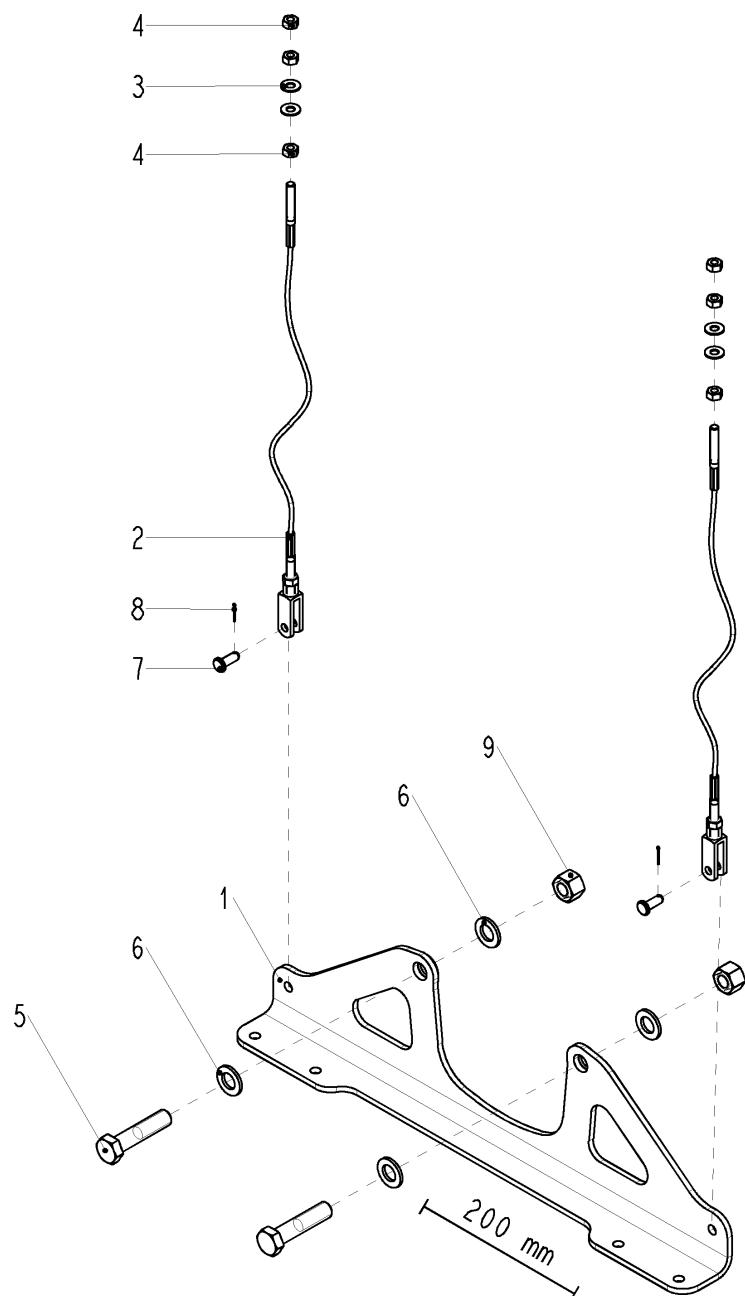
**T9 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>8.181.0.085.045.7</b>			<b>RESILIENT MOUNTING</b>			
1	8.180.0.085.002.6	1	Pce	SPRING ELEMENT		C	
2	8.181.0.995.003.4	1	Pce	STROKE LIMIT			
3	8.180.0.330.001.4	2	Pce	BUSH			
4	478360	2	Pce	COUNTERSUNK SCREW	M8X35	B	
5	466941	2	Pce	HEXAGON HEAD SCREW	M12X70	B	
6	469660	2	Pce	SPRING WASHER	Z12	A	
8	464641	2	Pce	HEX NUT	M12	B	
9	469646	2	Pce	SPRING WASHER	M08	A	
10	470582	2	Pce	HEXAGON NUT	M8	B	
11	8.120.0.653.003.4	2	Pce	BAR			
12	C80967/3	2	Pce	CABLE TIE			
13	478196	2	Pce	WASHER	12	B	



## T10: RESTRAINER



ET-1198976/0540

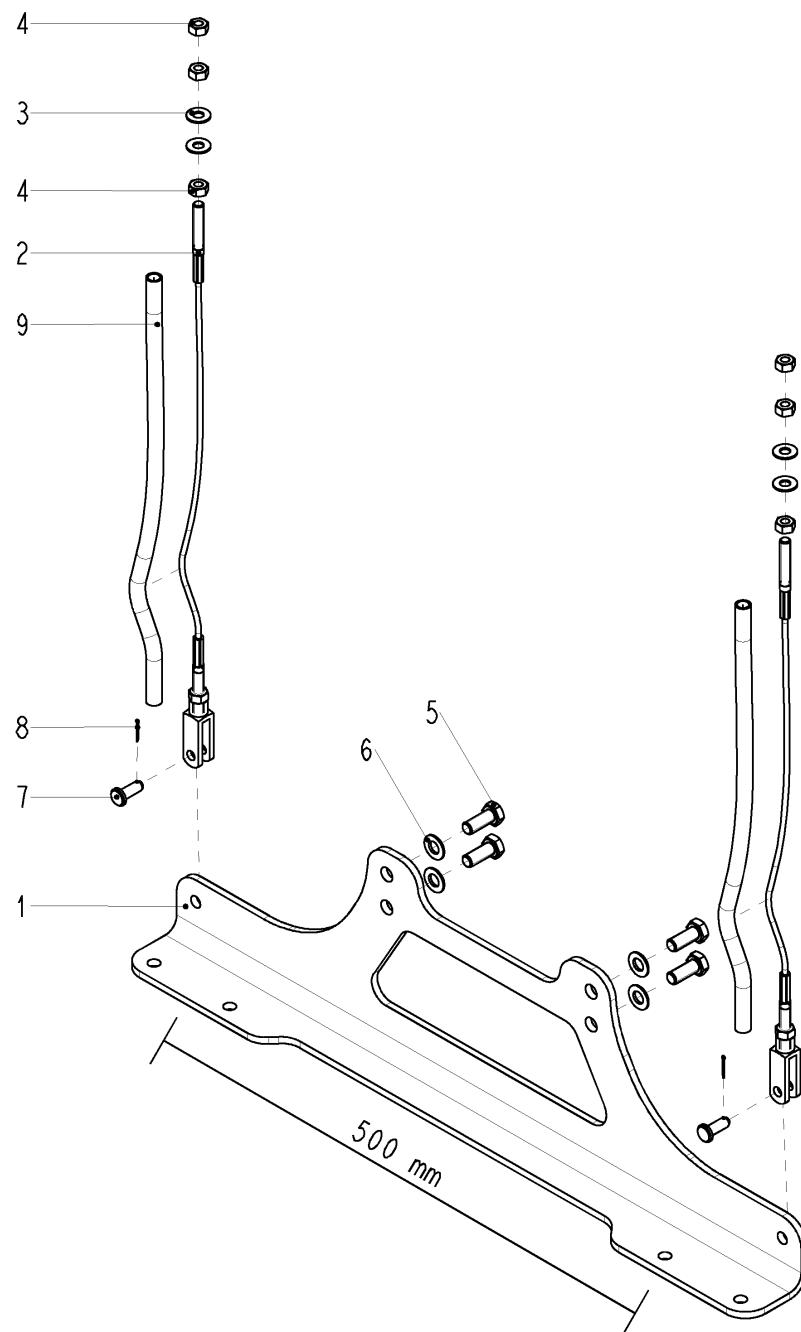
**T10 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>II98976/0540</b>			<b>RESTRAINER</b>			
1	C198229	1	Pce	ANGLE			
2	C186060/0530	2	Pce	ARRESTING CABLE			
3	470489	4	Pce	SPRING WASHER	M08	B	
4	465509	6	Pce	HEXAGON NUT	M8	B	
5	467869	2	Pce	HEXAGON HEAD SCREW	M16X70	B	
6	477181	6	Pce	WASHER	16	B	
7	463623	2	Pce	PIN	B8h11X22X19		
8	450557	2	Pce	SPLIT PIN	1,6X14	A	
9	478127	2	Pce	HEXAGON NUT	M16	B	



## T11: RESTRAINER

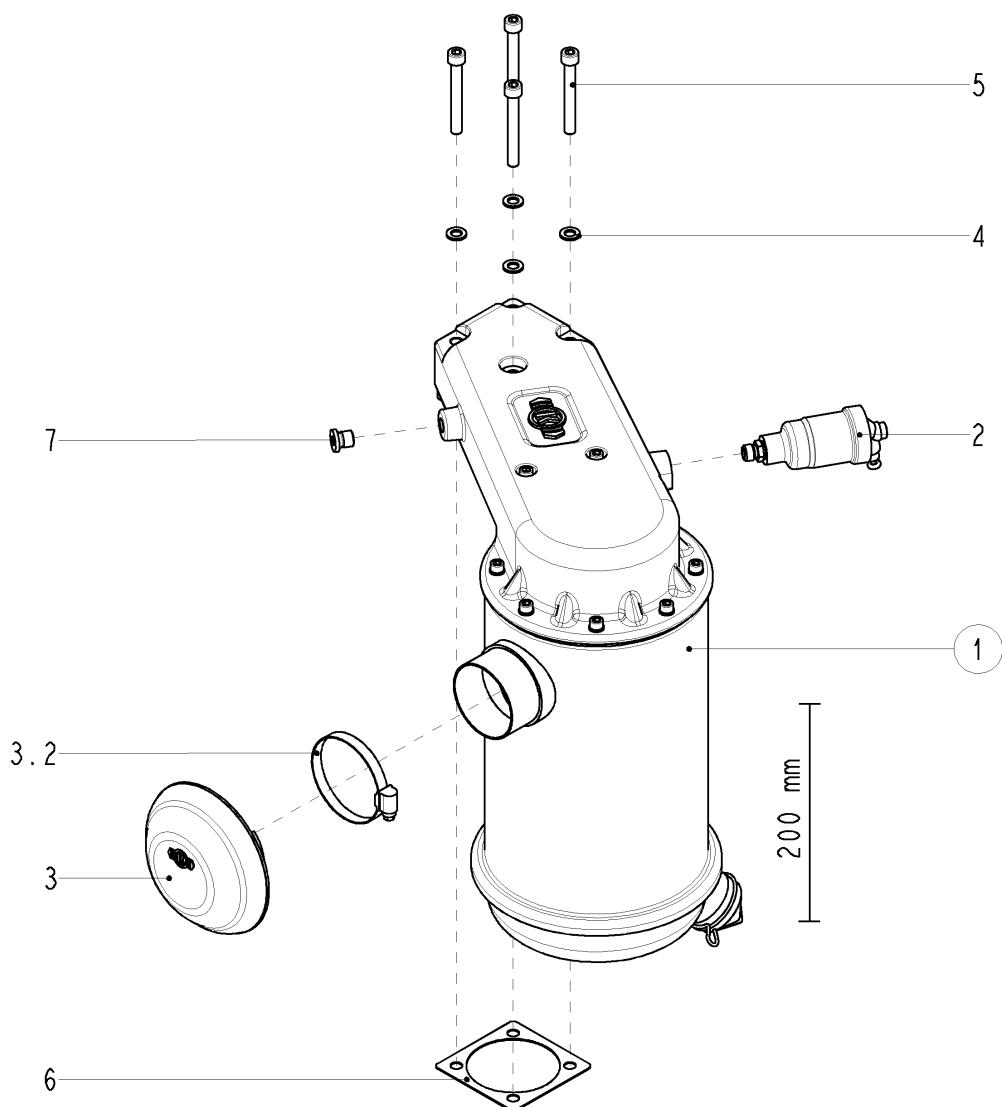


ET-11104688/0540

**T11 – Ordering information:**

Pos.	Item number	Quantity	Unit	Name	Measure	WEC	Page
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	<b>II104688/0540</b>			<b>RESTRAINER</b>			
1	C210289	1	Pce	ANGLE			
2	C186060/0530	2	Pce	ARRESTING CABLE			
3	470489	4	Pce	SPRING WASHER	M08	B	
4	465509	6	Pce	HEXAGON NUT	M8	B	
5	476862	4	Pce	HEXAGON HEAD SCREW	M10X25	B	
6	476534	4	Pce	WASHER	10	A	
7	463623	2	Pce	PIN	B8h11X22X19		
8	450557	2	Pce	SPLIT PIN	1,6X14	A	
9	504802	1	m	POLYAMIDE PIPE	12X1,5-1M		

**T12: DRY-TYPE AIR FILT.**

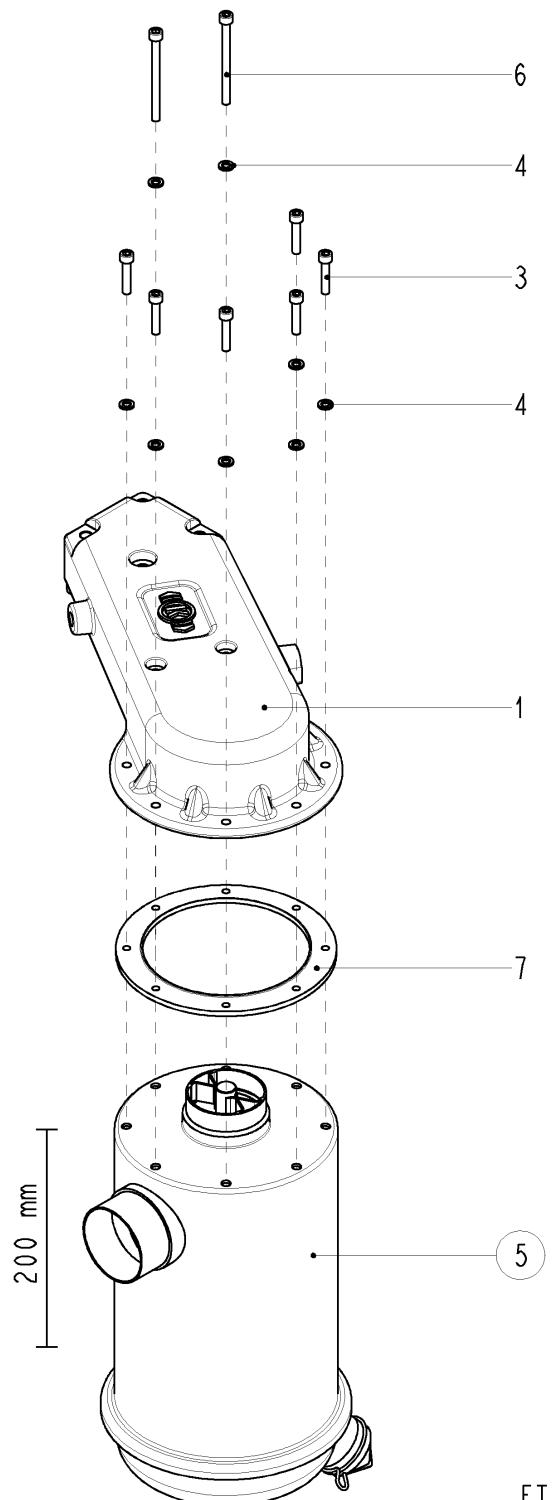
ET-8.000.0.923.748.9

**T12 – Ordering information:**

Pos. OEM/OPK	Part is contained in OPK	Item number	Quantity	Unit	Name	WEC	Page
		OEM/OPK					
1	-	8.000.0.923.748.9			<b>DRY-TYPE AIR FILT.</b>		
1	-	8.000.0.923.748.7	1	Pce	DRY-TYPE AIR FILT.		36
2	T-001	OPK04248	8.000.0.064.702.7	1	Pce	VACUUM INDICATOR	C
3	T-002	OPK04248	8.000.0.471.703.7	1	Pce	RAIN HOOD	C
3.2	-	468801	1	Pce	HOSE CLAMP A50-70X9		
4	T-005	OPK04248	476797	4	Pce	WASHER 8	B
	002	OPK04221		4			
5	T-004	OPK04248	474860	4	Pce	MACHINE SCREW M8X65	B
	003	OPK04221		4			
6	T-003	OPK04248	8.120.0.851.001.4	1	Pce	GASKET	C
	001	OPK04221		1			
7	T-006	OPK04248	478675	1	Pce	SCREW PLUG M12X1,5	C



## T13: DRY-TYPE AIR FILT.



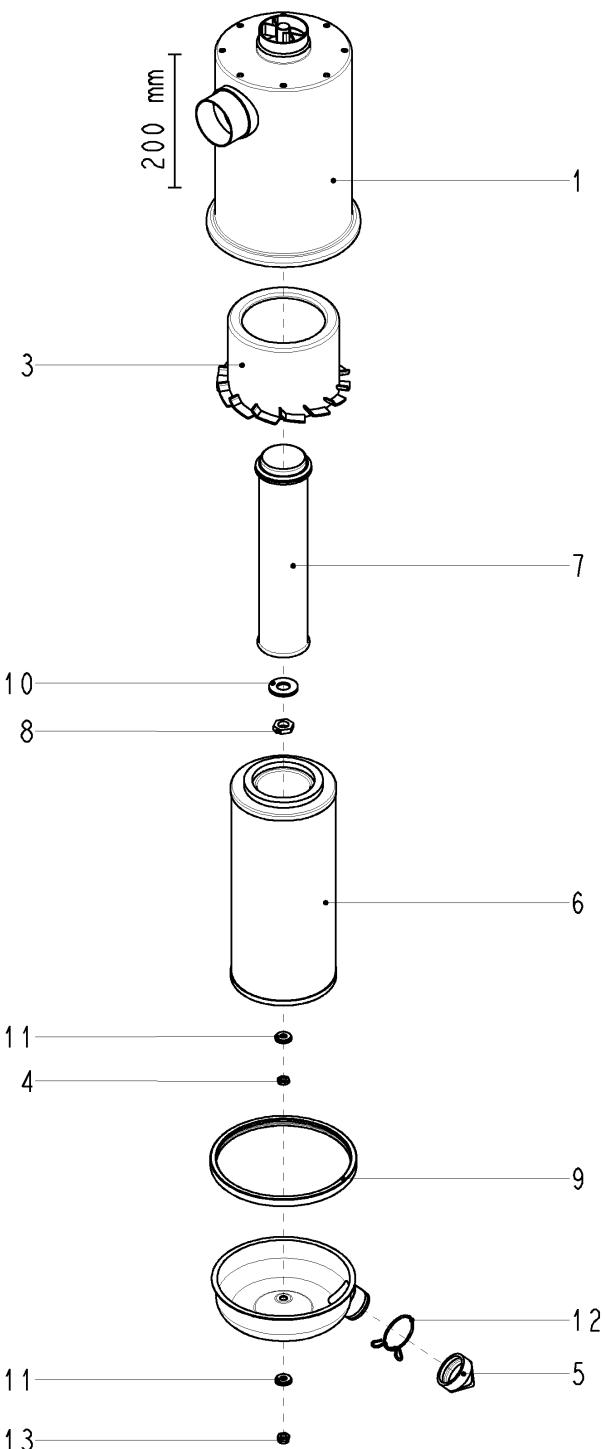
ET-8.000.0.923.748.7

**T13 – Ordering information:**

Pos. OEM/OPK	Part is contained in OPK	Item number	Quantity	Unit	Name	WEC	Page
		OEM/OPK					
		8.000.0.923.748.7			<b>DRY-TYPE AIR FILT.</b>		
1	-	8.181.0.922.007.4	1	Pce	WITH SUCTION DAMPER		
3	T-008	OPK04248	478672	6	6	Pce	MACHINE SCREW M6X30
4	T-010	OPK04248	478674	8	8	Pce	WASHER 6
5	-	8.000.0.923.747.6	1	Pce	DRY-TYPE AIR FILT.		38
6	T-009	OPK04248	478673	2	2	Pce	MACHINE SCREW M6X75
7	T-007	OPK04248	C190238	1	1	Pce	GASKET



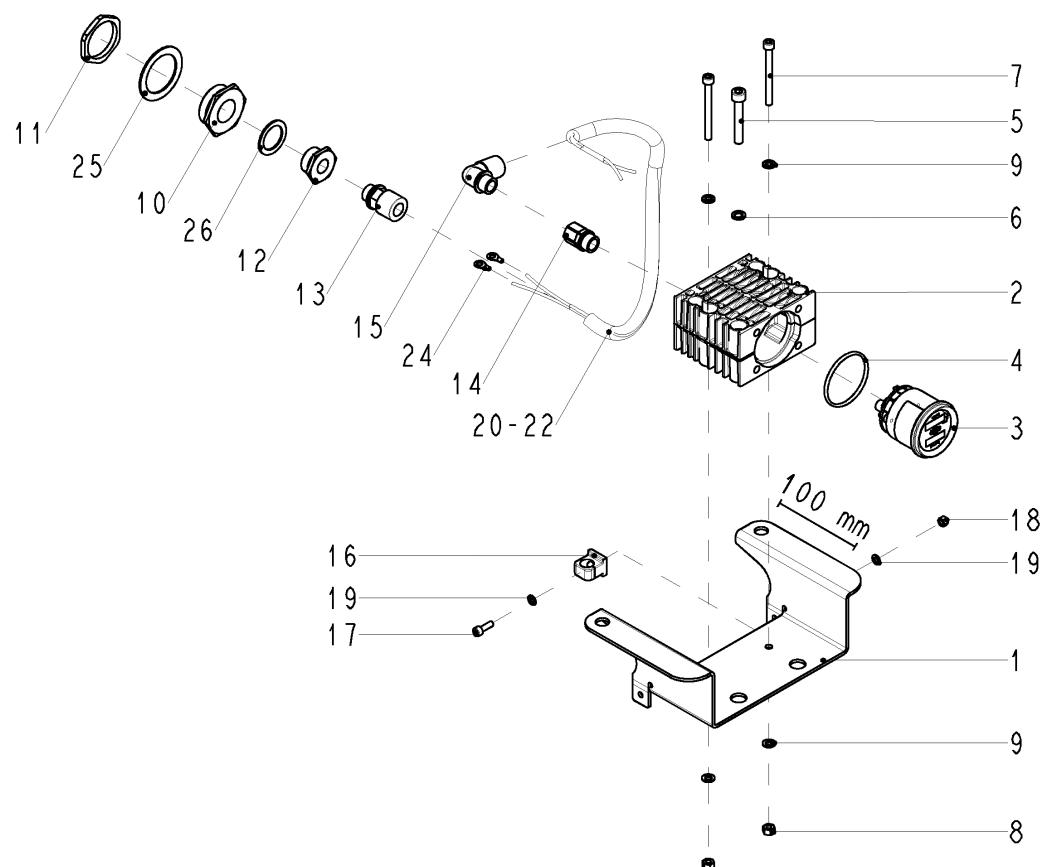
## T14: DRY-TYPE AIR FILT.



ET-8.000.0.923.747.6

**T14 – Ordering information:**

Pos. OEM/OPK	Part is contained in	Item number	Quantity OEM/OPK	Unit	Name	WEC	Page
1	-	8.000.0.923.747.6			<b>DRY-TYPE AIR FILT.</b>		
3	-	8.000.8.923.738.5	1	Pce	FILTER CASING		
4	T-016	OPK04248	450888	1	Pce	HEXAGON NUT M8	B
	003	OPK04222					
	003	OPK04223					
5	T-015	OPK04248	8.000.8.460.701.5	1	Pce	DUST DISCHAR.VALVE	B
6	T-018	OPK04248	8.000.8.923.716.5	1	Pce	FILTER ELEMENT	D
	001	OPK04222					
	001	OPK04223					
7	T-019	OPK04248	8.000.8.923.717.5	1	Pce	PROTECT.CARTRIDGE	D
	005	OPK04223					
8	T-017	OPK04248	461203	1	Pce	NUT M16X1,5	B
	007	OPK04223					
9	T-014	OPK04248	8.000.0.853.706.4	1	Pce	GASKET	B
10	T-012	OPK04248	8.000.0.340.717.5	1	Pce	WASHER	A
	006	OPK04223					
11	T-011	OPK04248	8.000.0.340.716.5	2	Pce	WASHER	A
	002	OPK04222					
	002	OPK04223					
12	-	C182143	1	Pce	TERMINAL		
13	T-013	OPK04248	8.000.8.360.704.4	1	Pce	HEXAGON NUT	A
	004	OPK04222					
	004	OPK04223					

**T15: OP. HOUR COUNTER**

ET-8.181.0.077.024.7

**T15 – Ordering information:**

Pos. OEM/OPK	Part is contained in	Item number	Quantity OEM/OPK	Unit	Name	WEC	Page
		8.181.0.077.024.7			<b>OP. HOUR COUNTER</b>		
1	-	8.000.0.637.027.4	1	Pce	BRACKET		
2	-	8.121.0.060.003.4	1	Pce	HOUSING		
3	-	8.000.0.060.706.6	1	Pce	OP. HOUR COUNTER		
4	E-001	OPK02821	B44174	1	1	Pce	O-RING
5	E-004	OPK02821	466433	1	1	Pce	MACHINE SCREW M8X50
6	E-009	OPK02821	469658	1	1	Pce	SPRING WASHER Z08
7	E-007	OPK02821	468719	2	2	Pce	MACHINE SCREW M6X65
8	E-005	OPK02821	466569	2	2	Pce	HEXAGON NUT VM6
9	E-003	OPK02821	465688	4	4	Pce	WASHER 6
10		-	C92293/5	1		Pce	REDUCTION
11	E-010	OPK02821	470656	1	1	Pce	HEXAGON- LOCK-NUT M40X1,5
12		-	C92293/6	1		Pce	REDUCTION
13		-	C100089/1	1		Pce	FITTING
14		-	C87700/2	1		Pce	POSITION ADAPTER
15		-	N62607/3	1		Pce	FITTING
16		-	C96563/3	1		Pce	PIPE CLIP
17	E-006	OPK02821	468343	1	1	Pce	MACHINE SCREW M5X16
18	E-008	OPK02821	469423	1	1	Pce	HEXAGON NUT VM5
19	E-002	OPK02821	450659	2	2	Pce	WASHER 5
20		-	506438	0.4	m	PROTECTIVE HOSE	

**T15 – Ordering information:**

Pos. OEM/OPK	Part is contained in	Item number	Quantity OEM/OPK	Unit	Name	WEC	Page
21	-	C64531/22	0.6	m	WIRE		
22	-	C64531/22	0.6	m	WIRE		
24	-	466969	2	Pce	CABLE TERMINAL 6-2,5		
25	-	C92356/6	1	Pce	SEALING RING		
26	-	C92356/4	1	Pce	SEALING RING		