

OPERATING AND MAINTENANCE INSTRUCTIONS/
SPARE PARTS

EDITION 01/2017

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1. General Remarks

Our leaflet 512.00 gives full information with technical data, different versions and dimensions of the gas pressure regulator HON 512b.

With regard to the accessories to be combined with the main regulator RMG 512 please consult the following leaflets:

Pilot:	HON 650	General Description	650.00
		Operation and Maintenance/Spare Parts	650.20
Filter:	HON 905	General Description	905.00
		Operation and Maintenance/Spare Parts	905.20

Our brochure "General Operating Instructions for Gas Pressure Regulators and Safety Devices" will be useful to fit the valve into the line, put it into service and find faults that might disturb the operation.

The construction, set-up, supervision and maintenance of gas pressure regulating stations are subject to special technical rules which should be strictly observed, in particular those given by the DVGW Worksheets G 490, G 491, and G 495.

The frequency of periodical maintenance to be foreseen for the gas pressure regulator RMG 512b should be determined according to the prevailing service conditions and the type and composition of the gaseous medium. We, therefore, abstain from imposing any fixed intervals and would rather refer you to the recommendations given by the DVGW Worksheet G 495.

For maintenance all parts are to be cleaned and subjected to a thorough visual inspection. A visual inspection should not be omitted when the course of operation or functional tests have shown lack of regulating accuracy. Particular care should be given to the checking of sealings and diaphragms, as well as of all carrying or moving parts. Damaged parts should be replaced by new ones.

The item numbers referred to in the maintenance instructions are identical with those of the spare parts drawings and spare parts lists.

We recommend to keep all parts that are specially marked in the spare parts lists in stock for prompt maintenance availability.

2. Special Maintenance Instructions

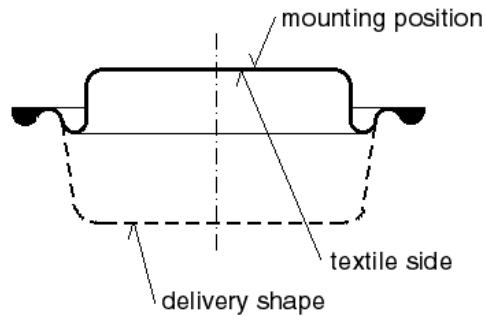
for main valve with noise reducing outlet duct

For dismantling the regulator we recommend to leave the noise reducing outlet duct in the line and proceed as follows:

- remove the fitting part upstream of the regulator
- loosen cylinder screws (39)
- remove the regulator from its outlet duct in axial direction

Roll - out Diaphragm (44)

- Slightly grease diaphragm enlargement, put diaphragm into the correct mounting position as shown in the sketch and slip it over the diaphragm plate (10) . The textile - side (marked by a stamp print) must rest upon the diaphragm plate casing (15)
Do not use any pointed objects!



• **Cylinder screws (74)**

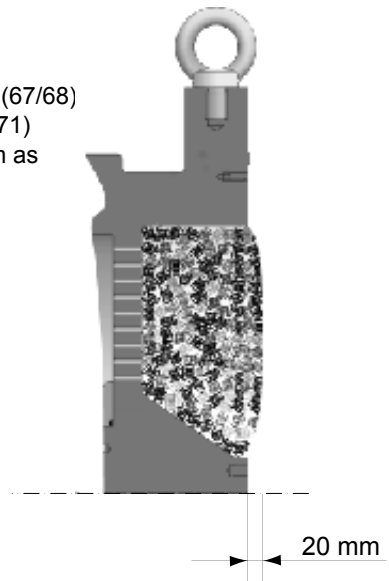
Loosening the screws (74) will cause a slackening of the closing springs (19), and tightening the screws will stress the spring. Loosening and tightening the screws should, therefore, be effected crosswise

• **Greasing chambers (17)**

The greasing chambers (17) of both supporting rings (16) should completely be refilled with silicone grease (part no. 00 027 052)

• **Wire coil parts (71)**

The noise reducing outlet duct needs no maintenance. If, however, the release plates (67/68) are removed from the outlet release casing (69), bear in mind that the wire coil parts(71) will require a change of tension, for reassembly use wire coil parts of oversize 20 mm as refill to the release casing (69)



2.1 Torque

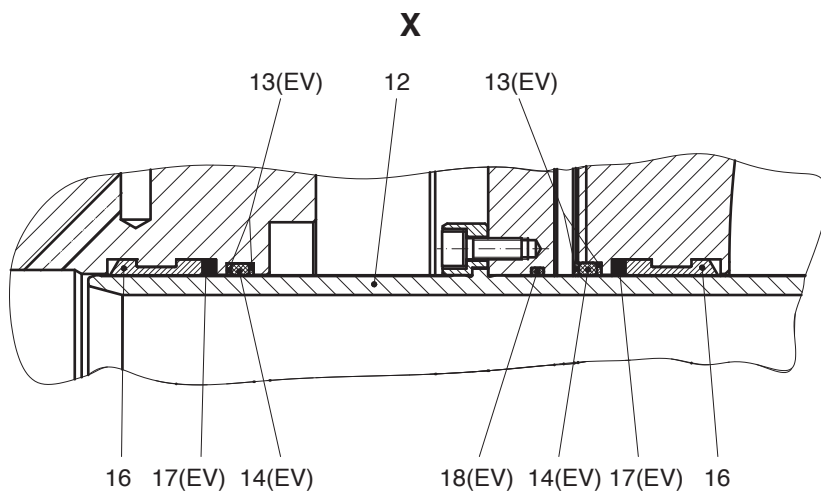
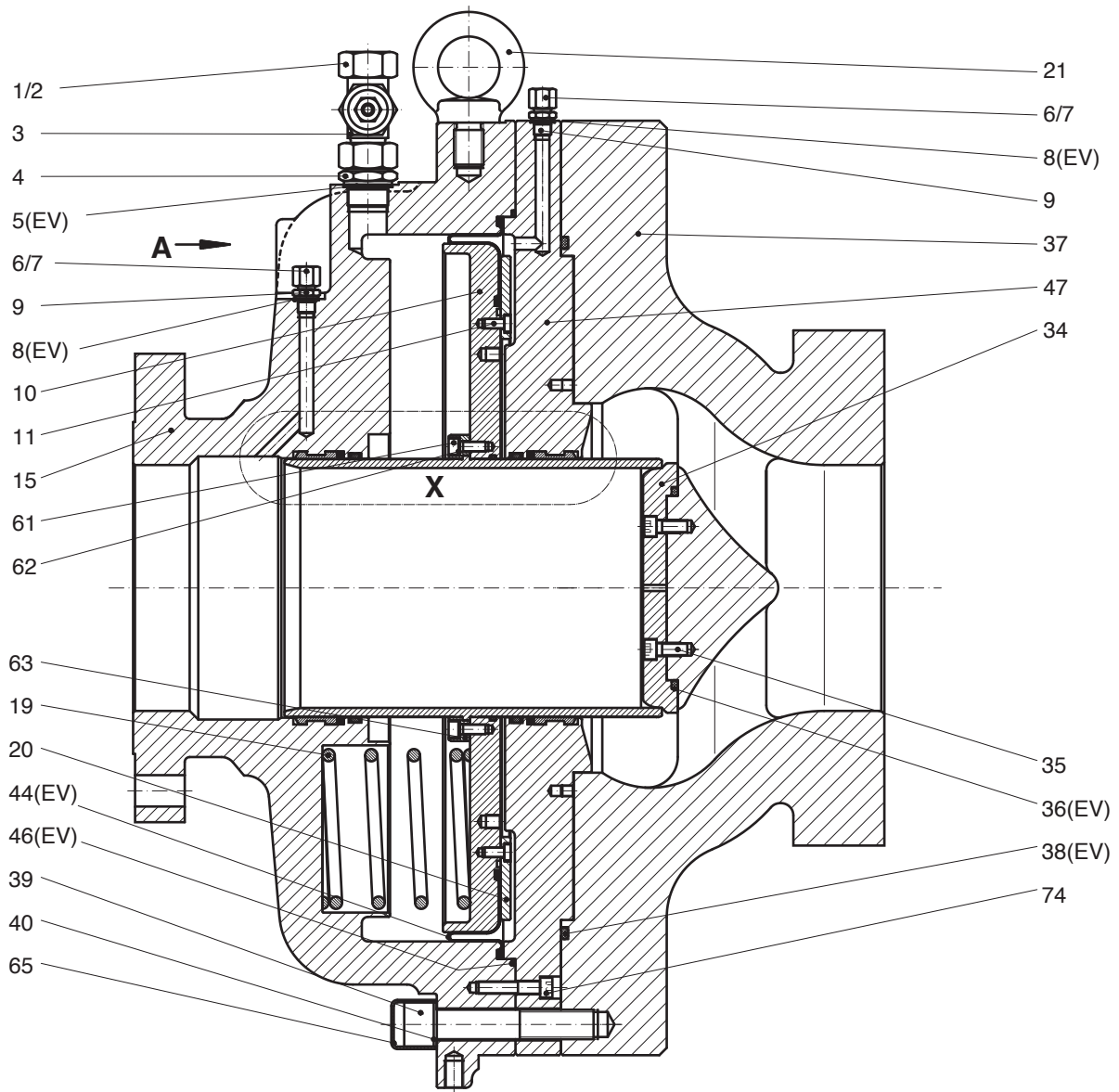
item no.	DN	torque [Nm]
39	200	600

2.2 Lubricants

part (to be greased slightly)	lubricant	part no.
all o-rings	silicone grease	00 027 081
greasing chambers (17), valve sleeve sliding surface (12) and valve sleeve sealing, diaphragm fixing reinforcement (44)	silicone grease	00 027 052
all fastening and pipe screws	high duty grease	00 027 058

3. Spare Parts Drawing

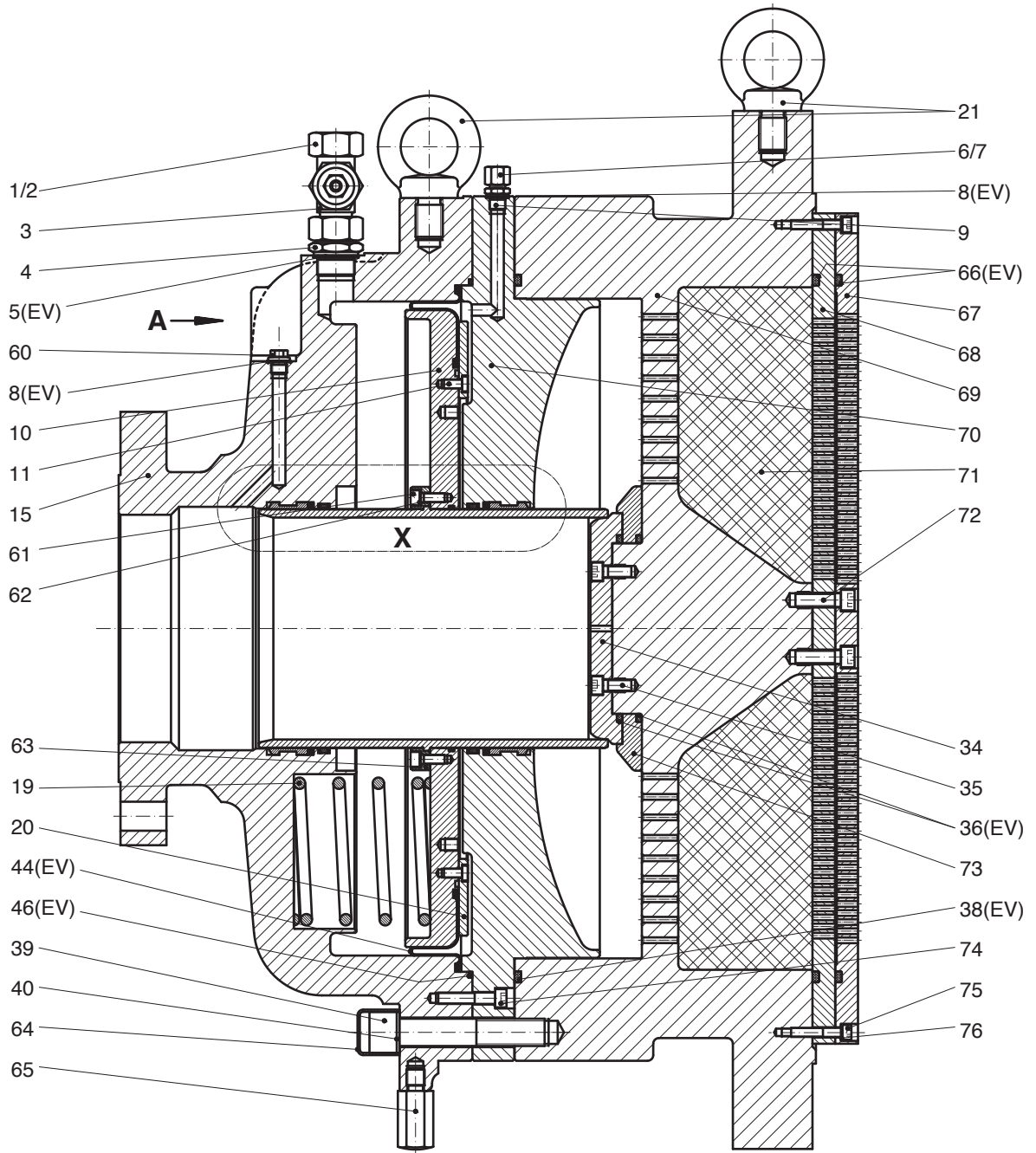
3.1 Spare Parts Drawing HON 512b DN 200/200



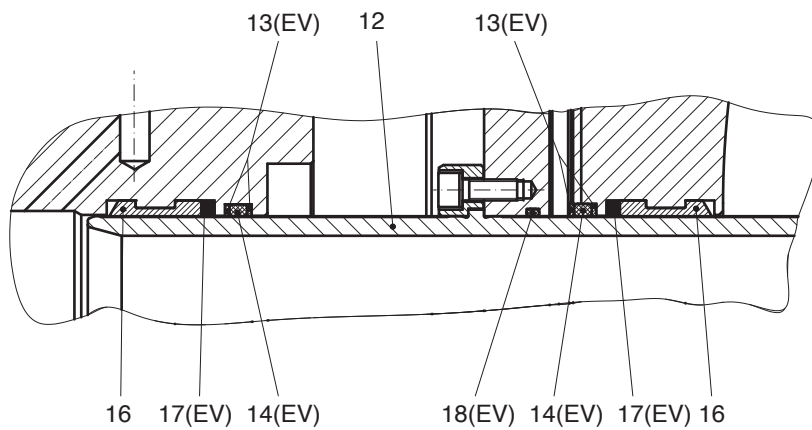
Notice

Parts marked by EV are to be kept in stock for maintenance

3.2 Spare Parts Drawing HON 512b DN 200/600

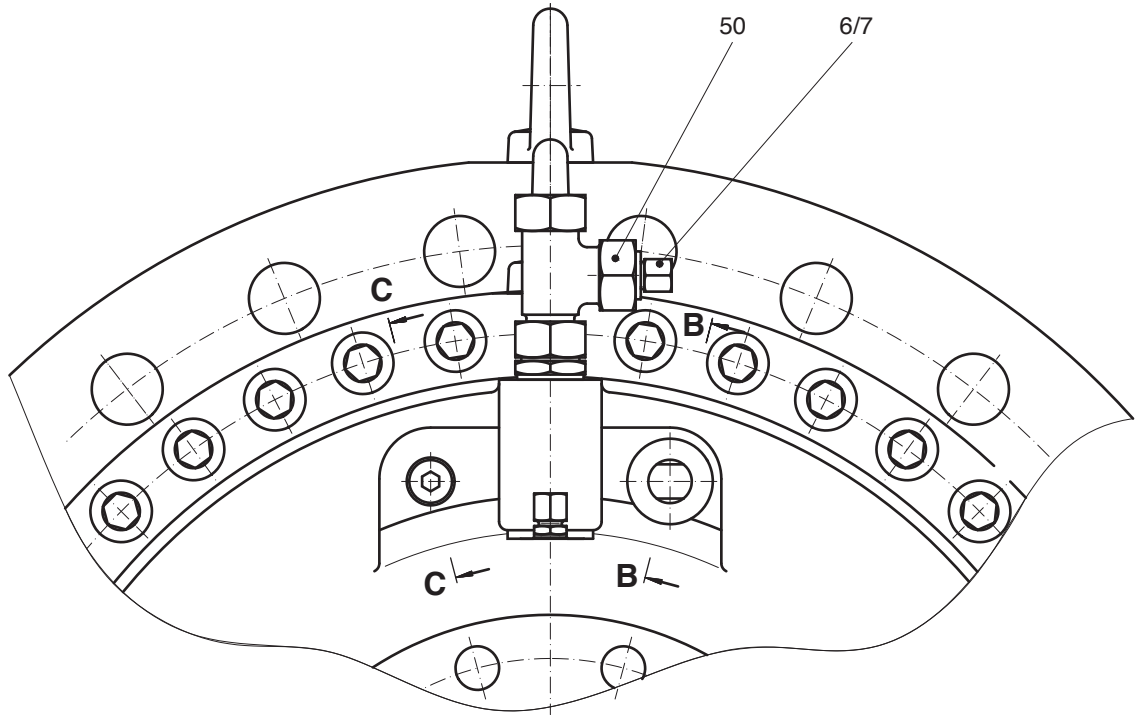


X

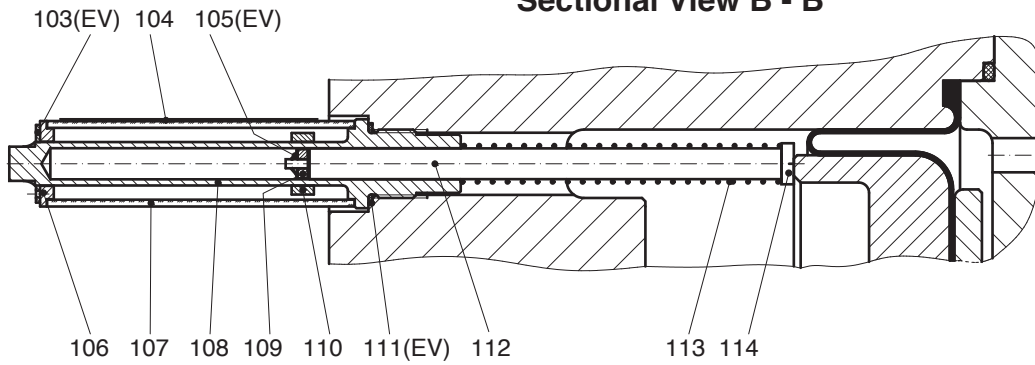


3.3 Spare Parts Drawing HON 512b

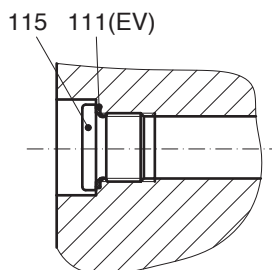
View A



Sectional View B - B



Sectional View C - C



Notice

Parts marked by EV are to be kept in stock for maintenance

4. Spare Parts List

4.1 Spare Parts List HON 512b DN 200/200, DN 200/400 and DN 200/600

Pos. No.	description	quant	E EV ¹⁾	material	HON-part no.		
					DN 200/200	Ident-No. 18 357 402 DN 200/400	DN 200/600
1	cap nut	1	E	St	00 030 812	00 030 825	00 030 812
2	compression ring	1	E	St	00 030 911	00 030 921	00 030 911
3	nozzle	1	E	St	00 030 621	00 031 438	00 030 621
4	nozzle	1	E	St	00 030 143	00 030 135	00 030 143
5	sealing ring	1	EV	LM	00 018 683	00 018 804	00 018 683
6	cap nut	3	E	St	00 030 803		
6	cap nut	2	E	St		00 030 817	00 030 803
7	compression ring	3	E	St	00 030 903		
7	compression ring	2	E	St		00 030 915	00 030 903
8	sealing ring	2	EV	LM	00 018 842	00 018 842	00 018 842
9	nozzle	2	E	St	00 030 111		
9	nozzle	1	E	St		00 030 118	00 030 111
10	diaphragm plate	1	E	LM	10 013 884	10 013 884	10 013 884
11	valve sleeve	24	E	St	00 010 355	00 010 355	00 010 355
12	valve sleeve	1	E	St	10 013 881	10 013 881	10 013 881
13	support ring	4	E	KT	00 021 235	00 021 235	00 021 235
14	o-ring	2	EV	KG	00 020 542	00 020 542	00 020 542
15	casing	1	E	St	18 357 022	10 013 908	18 357 022
16	supporting ring	2	E	KT	00 021 232	00 021 232	00 021 232
17	lubricant		EV		00 027 052	00 027 052	00 027 052
18	o-ring	1	EV	KG	00 020 329	00 020 329	00 020 329
19	closing spring	6	E	Fst	10 013 887	10 013 887	10 013 887
20	plate	1	E	LM	10 013 886	10 013 886	10 013 886
21	ring screw	1	E	St	00 010 047		
21	ring screw	2	E	St		00 010 047	00 010 047
34	valve cone	1	E	K	18 357 021	18 357 404	18 357 021
35	cylinder screw	10	E	St	00 010 207	00 010 207	00 010 207
36	o-ring	1	EV	KG	00 021 244		
36	o-ring	2	EV	KG		00 021 244	00 021 244
37	valve casing	1	E	St	10 013 975		
38	o-ring	1	EV	KG	00 021 243	00 021 243	00 021 276
39	cylinder screw	39	E	St	00 010 624	00 010 624	00 010 624
40	safety washer	39	E	St	00 014 129	00 014 129	00 014 129
44	diaphragm	1	E	KG	10 013 885	10 013 885	10 013 885
46	o-ring	1	EV	KG	00 021 234	00 021 234	00 021 234
47	flange	1	E	St	10 013 980		
50	nozzle	1	E	St	00 031 861	00 031 863	00 031 861
60	closing screw	1	E	St			00 026 175
61	cylinder screw	8	E	St	00 010 323	00 010 323	00 010 323
62	safety washer	8	E	St	00 014 112	00 014 112	00 014 112
63	ring	1	E	LM	10 013 899	10 013 899	10 013 899
65	distance bolt	2	E	St			18 357 023
64	cap	39	E	K	00 026 405		00 026 405
66	o-ring	2	EV	KG		00 020 424	00 021 276

1) Parts marked by EV to be kept in stock for maintenance

material-key:

St ... steel
 K ... plastic, general
 FSt ... spring steel
 KG ... rubber-like plastic material
 KT ... teflon
 LM ... light metal

4.1 Spare Parts List HON 512b DN 200/200, DN 200/400 and DN 200/600 (continued)

67	expansion plate 2	1	E	St		18 357 406	18 357 020
68	expansion plate 1	1	E	St		18 357 405	18 357 019
69	outlet duct casing	1	E	St		18 357 403	18 357 017
70	flange	1	E	St			18 357 018
71	wire coil	31 kg	E	St		00 026 361	00 026 361
72	cylinder screw	4	E	St		00 010 394	00 010 556
73	distance ring	1	E	St		10 013 909	10 013 909
74	cylinder screw	3	E	St	00 010 368	00 010 368	00 010 368
75	cylinder screw	12	E	St		00 010 433	00 010 433
76	safety washer	12	E	St		00 014 112	00 014 112
110	magnet ring	1	E		00 027 043	00 027 043	00 027 043
111	o-ring	2	EV	KG	00 020 382	00 020 382	00 020 382
112	indicator rod	1	E	MS	10 013 891	10 013 891	10 013 891
113	pressure spring	1	E	FSt	10 013 893	10 013 893	10 013 893
114	flat-headed screw	1	E	St	00 011 144		00 011 144
115	closing screw	1	E	St	00 010 539		00 010 539

1) Parts marked by EV to be kept in stock for maintenance

material-key:

St ... steel
 K ... plastic, general
 FSt ... spring steel
 KG ... rubber-like plastic material
 KT ... teflon
 LM ... light metal

For More Information

To learn more about Honeywell's
Advanced Gas Solutions, visit
www.honeywellprocess.com or contact
your Honeywell account manager

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