



OPERATING AND MAINTENANCE INSTRUCTIONS/  
SPARE PARTS

EDITION 01/2017

**Serving the Gas Industry  
Worldwide**

**Honeywell**



### 3. Maintenance Hints

#### 3.1 piston (7)

The piston (7) responsible for tight shut-off can be exchanged after removing the screw cap (21).

#### 3.2 internal parts (valve seat (8), guide piece (10), diaphragm (11), setpoint spring (14), etc.)

The internal parts can be reached from under the body by unscrewing the spring housing (15) or the intermediate piece (52).

The internal parts should move easily and must be faultless. Take care that the measuring diaphragm is not beginning to dissolve or fall apart due to aggressive gas components.

NOTE: When mounting the spring housing take care not to tighten the lid too strongly. Only apply enough force to press the diaphragm down for not more than 1 mm. This is sufficient to achieve tightness.

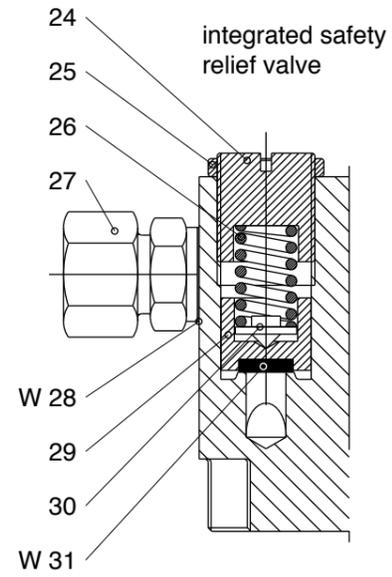
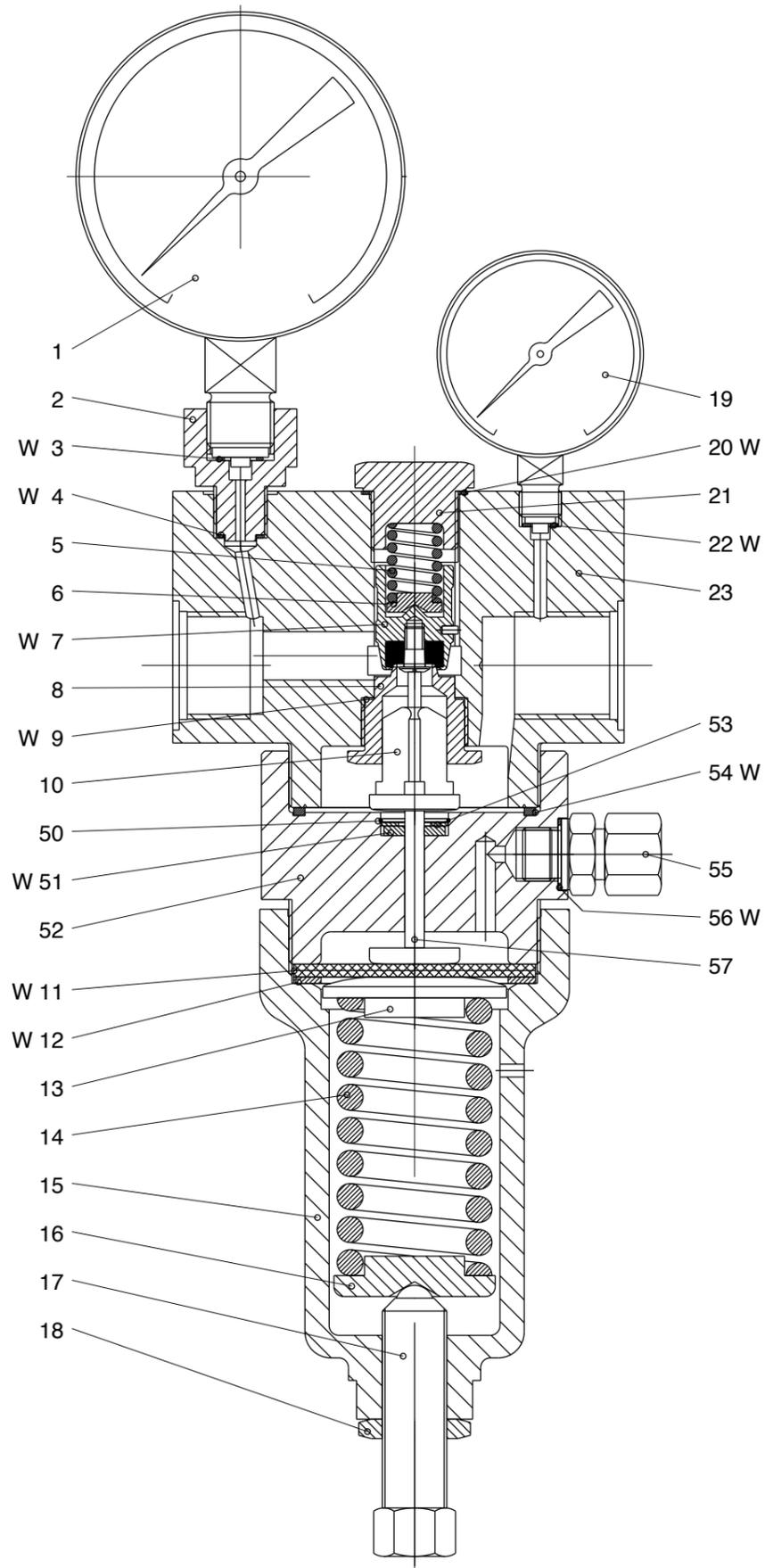
pos.-no.	description	amount	W	material	HON part no.
18	hexagonal nut	1		Ms	18 353 938
19	gauge or Verschlufschraube gauge, at option:				
	0 to 10 bar	1		Ms	00 026 281
	0 to 25 bar	1		Ms	00 026 284
	0 to 60 bar	1		Ms	00 026 283
	0 to 100 bar	1		Ms	00 026 285
	sealing screw	1		Ms	10 014 784
20	sealing ring	1	W	Cu	00 018 512
21	sealing screw	1		Ms	10 014 787
22	sealing ring, at option:				
	0,5 mm thick	1	W	LM	00 018 797
	1 mm thick	1	W	LM	00 018 818
23	body G1	1		Ms	10 014 783
24	adjusting screw	1		Ms	10 014 791
25	counter nut	1		Ms	10 014 797
26	spring, at option:				
	p <sub>a</sub> up to 30 bar	1		NFSt	10 014 771
	p <sub>a</sub> above 30 bar	1		NFSt	10 014 794
27	screw connection DS 10	1		St	00 030 015
28	sealing ring	1	W	LM	00 018 524
29	piston	1		Ms	10 014 789
30	egalizing piece for spring	1		Ms	10 014 795
31	sealing hub	1	W	KG	00 018 057
50	wire ring	1		NSt	10 015 198
51	sealing washer	1	W	FP	10 015 197
52	intermediate piece	1		Ms	10 015 195
53	glide washer	1		Ms	10 015 191
54	sealing ring, at option:				
	2,0 mm thick	1	W	LM	00 018 639
	2,5 mm thick	1	W	LM	00 018 640
	3,0 mm thick	1	W	LM	00 018 641
55	screw connection DS 16	1		St	00 030 008
56	sealing ring	1	W	LM	00 006 608
57	steering pin, complete	1		Ms	10 015 208
80	body G1	1		Ms	10 015 201
81	sealing ring	1	W	LM	00 018 706
82	spring	1		NFSt	10 015 206
83	sealing ring	1		Cu	00 005 121
84	screw connection	1		NSt	10 015 203
85	piston	1	W	NSt/K	10 015 204

parts marked W are to be kept in stock for maintenance.

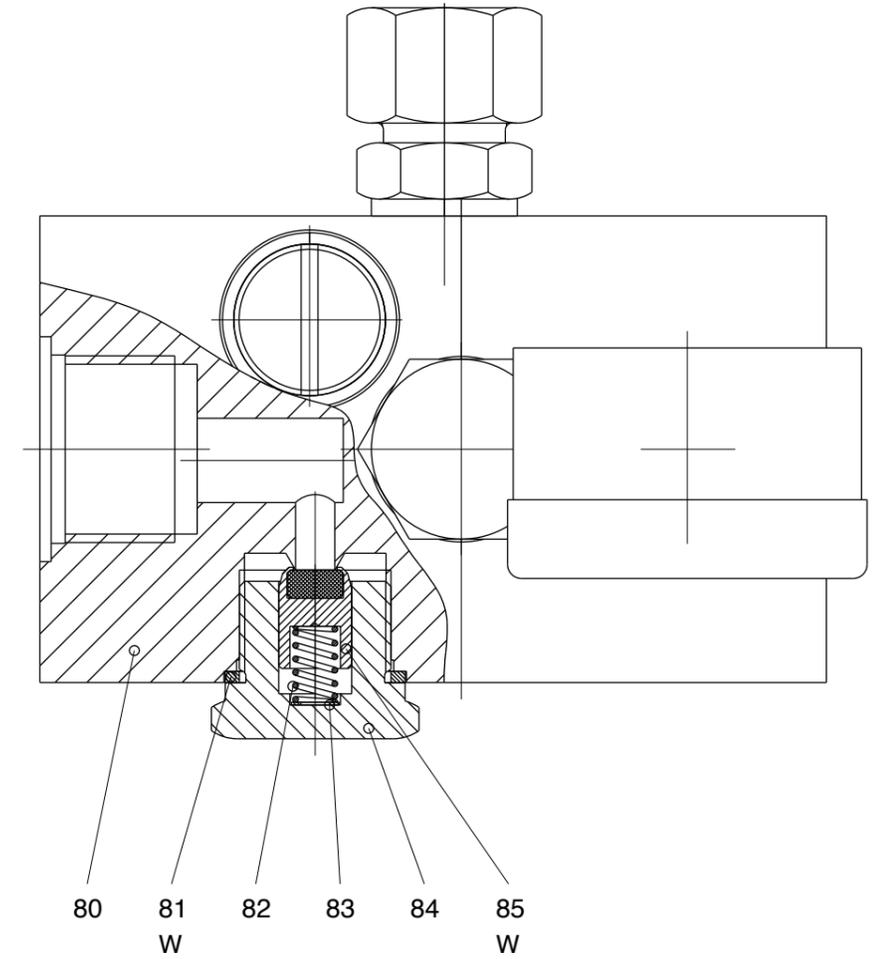
material key:

St	... steel	Cu	... copper	FSt	... spring steel
LM	... aluminium	K	... plastic material	NFSt	... inox spring steel
Ms	... brass	KG	... rubber-like plastic material	NSt	... inox steel
		FP	... special plastic material	PA	... special plastic material

- 4. spare parts HON 214
- 4.1 spare parts drawing
- 4.1.2 version with external measuring line



- 4. spare parts HON 214
- 4.1 spare parts drawing
- 4.1.3 back-flow proof version, only for valve seat dia. 6 mm



parts marked W are to be kept in stock for maintenance.

#### 4.2 spare parts list HON 214

pos.-no.	description	amount	W	material	HON part no.
1	gauge, at option:				
	0 to 400 bar	1		Ms	00 026 772
	0 to 100 bar	1		Ms	00 026 479
2	intermediate piece	1		St	10 015 185
3	sealing ring at option:				
	0,5 mm thick	1	W	LM	00 018 788
	1,0 mm thick	1	W	LM	00 018 323
4	sealing ring	1	W	Cu	00 018 586
5	setpoint spring	1		NFSt	10 014 771
6	intermediate piece for spring	1		Ms	10 014 785
7	piston, at option:				
	for valve seat dia. Ø 6 and Ø 8				
	p <sub>e</sub> up to 100 bar	1	W	NSt/FP	10 014 764
	p <sub>e</sub> above 100 bar	1	W	NSt/PA	10 014 768
	for valve seat dia. Ø 11				
	p <sub>e</sub> up to 100 bar	1	W	NSt/FP	10 014 775
8	valve seat dia., at option:				
	valve seat dia. Ø 6	1		Ms	10 014 761
	valve seat dia. Ø 8	1		Ms	10 014 772
	valve seat dia. Ø 11	1		Ms	10 014 737
9	sealing ring	1	W	Cu	00 003 879
10	guide piece	1		Ms	10 014 740
11	diaphragm, at option:				
	p <sub>a</sub> to 10 bar (4 mm thick)	1	W	KG	10 014 757
12	sealing ring, at option:				
	p <sub>a</sub> to 10 bar (6 mm thick)	1	W	KG	10 014 759
13	spring plate, at option:				
	p <sub>a</sub> 1 to 5 bar for spring F1 Ø 8	1	W	K	00 018 167
	p <sub>a</sub> 3 to 25 bar for spring F2 Ø 11	1	W	K	00 018 056
	p <sub>a</sub> 5 to 60 bar for spring F3 Ø 14	1			
14	spring, at option:				
	p <sub>a</sub> 1 to 5 bar F1 Ø 8	1		St	10 014 746
	p <sub>a</sub> 3 to 25 bar F2 Ø 11	1		St	10 014 749
	p <sub>a</sub> 5 to 60 bar F3 Ø 14	1		St	10 014 752
15	spring, at option:				
	p <sub>a</sub> 10 to 80 bar F4 Ø 16	1		St	10 014 755
	p <sub>a</sub> 1 to 5 bar F1 Ø 8	1		FSt	10 014 745
	p <sub>a</sub> 3 to 25 bar F2 Ø 11	1		FSt	10 014 748
16	intermediate piece for spring, at option:				
	p <sub>a</sub> 5 to 60 bar F3 Ø 14	1		FSt	10 014 751
	p <sub>a</sub> 10 to 80 bar F4 Ø 16	1		FSt	10 014 754
	p <sub>a</sub> 1 to 5 bar for spring F1 Ø 8	1		Ms	10 014 736
17	intermediate piece for spring, at option:				
	p <sub>a</sub> 3 to 25 bar for spring F2 Ø 11	1		Ms	10 014 736
	p <sub>a</sub> 5 to 60 bar for spring F3 Ø 14	1		St	10 014 747
	p <sub>a</sub> 10 to 80 bar for spring F4 Ø 16	1		St	10 014 750
17	setpoint adjusting screw	1		Ms/St	10 014 738

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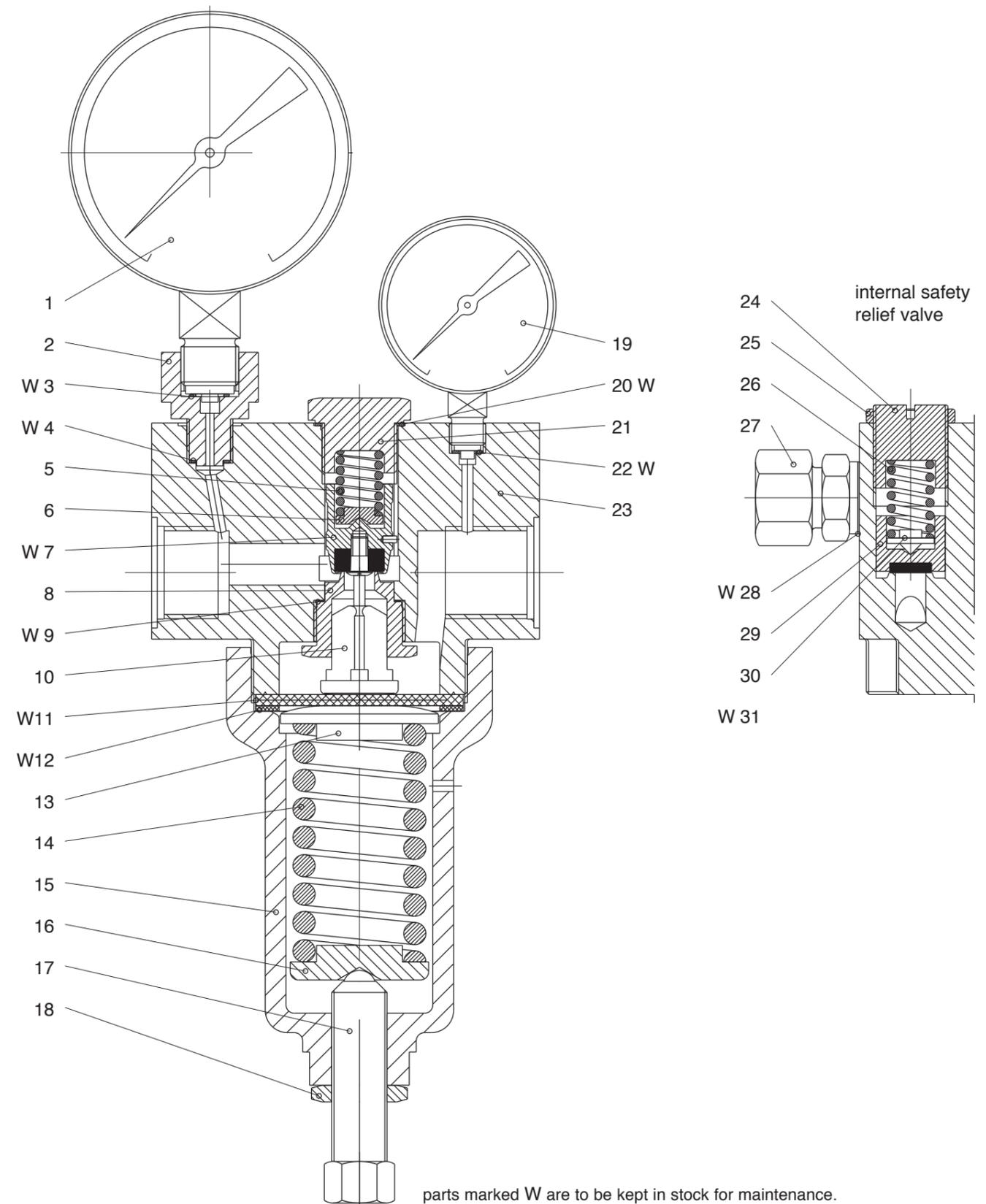
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#### 4. Spare Parts HON 214

##### 4.1 Spare Parts Drawing

##### 4.1.1 Version with internal measuring impulse connection



parts marked W are to be kept in stock for maintenance.

## 1. General

The "Technical Description 214.00" for the gas pressure regulator of series HON 214 contains technical data, versions and dimensions.

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

The construction, set-up, supervision and maintenance of gas pressure pressure stations are subject to various national technical rules, which should be strictly observed. In Germany please refer to the DVGW-Worksheets G 490, G 491 and G 495.

Note: The vent line of the integrated safety relief valve is to be connected to the open atmosphere (outside of the building).

The frequency of periodical maintenance of gas pressure regulator HON 214 should be determined according to the prevailing conditions and the type and composition of the gaseous medium. We, therefore, abstain from imposing any fixed intervals. In Germany please refer to the recommendations given by the DVGW-Worksheets 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 carrying and moving parts. Damaged parts should be replaced by new ones.

The item numbers referred to in the maintenance instructions are identical with those of spare parts drawings and spare parts lists. We recommend to keep all parts that are marked "W" in the spare parts lists in stock for prompt maintenance availability..

## 2. Special Operating Instructions

### valve seat diameter

Take care that not more than the permissible inlet pressure prevails on the inlet side of the HON 214 as to avoid damage to internal parts

valve seat diameter	6 mm	$p_{e \max} = 350 \text{ bar}$
valve seat diameter	8 mm	$p_{e \max} = 220 \text{ bar}$
valve seat diameter	11 mm	$p_{e \max} = 150 \text{ bar}$

### regulating deviations

Admissible regulating deviations depend on constructive details and can be caused by:

- inlet pressure variations (see table in Technical Description 214.00 or in the Honeywell booklet)
- flow variations (accuracy depending on the individual setpoint spring, see table in Technical Description 214.00 or in the Honeywell booklet)
- flow resistance in the outlet channels (increases with higher flowrate)

### bubble-tight shut-off

As the regulators have valve sealing made of plastic material, the close bubble-tight at zero consumption.

**For More Information**

To learn more about Honeywell's  
Advanced Gas Solutions, visit  
[www.honeywellprocess.com](http://www.honeywellprocess.com) or contact  
your Honeywell account manager

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