

Biffi Actuators

Addendum Sheet

Section 1: Introduction

1.1 Purpose

This Addendum sheet presents the changes needed for the affected Installation, Operation and Maintenance Manual.

1.2 Documents Affected

The table below shows the list of documents affected with the changes written in each case.

Case	Product Name	Document Affected	Note
A	RPD	All product IOM released	-
	RPS	All product IOM released	-
	ALGA	All product IOM released	-
	ALGAS, ALGAS-QA	All product IOM released	-
	GIG	All product IOM released	-
	GIGS	All product IOM released	-
	GPO	All product IOM released	-
	RPHD	All product IOM released	-
	RPHS	All product IOM released	-
	OLGA and OLGA-H	All product IOM released	-
	OLGAS and OLGAS-H, and ALGAS-H QA	All product IOM released	-
	TPD	All product IOM released	-
	TPS, TPS-QA	All product IOM released	-
	PLA	All product IOM released	-
	PLAS	All product IOM released	-
	GIL	All product IOM released	-
	GILS	All product IOM released	-
	HLA	All product IOM released	-
	HLAS, HLAS-C, HLAS QA	All product IOM released	-
B	RPD	All product IOM released	-
	RPS	All product IOM released	-



Section 2: Case A

Updated table of contents to add new sections such as 1.1.3. Electrostatic Charge and 1.1.4 Noise Emission. Note that Section 1.1.4 is only applicable for Low Pressure Application or QA Actuators.

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1.1.3 Electrostatic Charge

An electrostatic charge risk is present on the actuator surface; in case of cleaning, use only antistatic cloth; in case of maintenance, avoid all rubbing/frictions that could electrostatically charge the equipment.

1.1.4 Noise Emission

The verification of the noise of the actuated valve is at valve maker care. Biffi points out that the actuator's noise can be considered negligible since it is an equipment for regular on-off or intermittent use.

If the integral quick exhaust valve is present, we recommend using ear PPE (personal protective equipment) to avoid any possible acoustic discomfort.



Section 3: Case B

When offshore configuration is requested, consider the following changes.

3.1 With Reference to the RPS Product Line

Consider Section 7 - Figure 22 and Table 14 for technical data updates

Figure 22 RPS MSJ / MHW Single-Acting Pneumatic Actuator

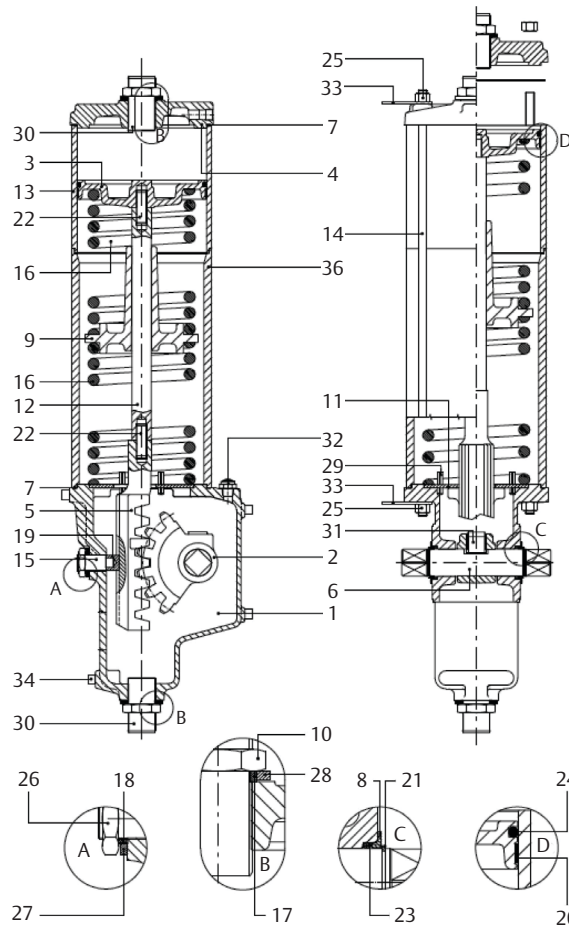


Table 14. Parts List

Item	Qty.	Description	Material
1	1	Housing	Nodular cast iron
2	1	Pinion	Nodular cast iron
3	1	Piston	Carbon steel
4	1	End flange	Low temperature carbon steel
5	1	Rack	Nodular cast iron
6	1	Shaft	Nickel plated alloy steel
7*	2	Cylinder gasket	NBR Rubber
8*	2	Shoulder washer	Nylon
9	1	Springs centering disk	Nylon
10	2	Nut	Carbon steel
11	1	Spring retainer disk	Carbon steel
12	1	Rack spacer rod	Carbon steel
13	1	Cylinder tube	Nickel plated carbon steel
14	4	Tie rod	Alloy steel #
15	1	Thrust bearing screw	Alloy steel
16	2	Spring	Carbon steel
17*	2	Sealing washer	Teflon
18*	1	Sealing washer	Teflon
19	1	Sliding block	Bronze
20*	1	Piston guide sliding ring	Teflon + graphite
21*	2	Retainer ring	Stainless steel
22	2	Screw	Alloy steel
23*	1	O-Ring	NBR Rubber
24*	2	O-Ring	NBR Rubber
25	8	Nut	Carbon steel #
26	1	Nut	Carbon steel
27	1	Washer	Carbon steel
28	2	Washer	Carbon steel
29	4	Spring pin	Carbon steel
30	1	Travel stop screw	Carbon steel #
31	1	Screw	Alloy steel
32	1	Plug	Aluminium + Bronze + Steel
33	1	Stop setting screw	Bronze #
34	1	Manual override jackscrew	Carbon steel**
35*	1	O-Ring	NBR Rubber
36	1	Spacer tube	Carbon steel
37	2	Lifting eyelet	Carbon steel

NOTE:

* Recommended spare parts

** Stainless steel mandatory in case of offshore application

Stainless steel available in case of offshore application

3.2 With Reference to the RPD Product Line

Consider Section 7 - Figure 18 and Table 10 for technical data updates

Figure 18 Double-Acting Pneumatic Actuator with Manual Jackscrew

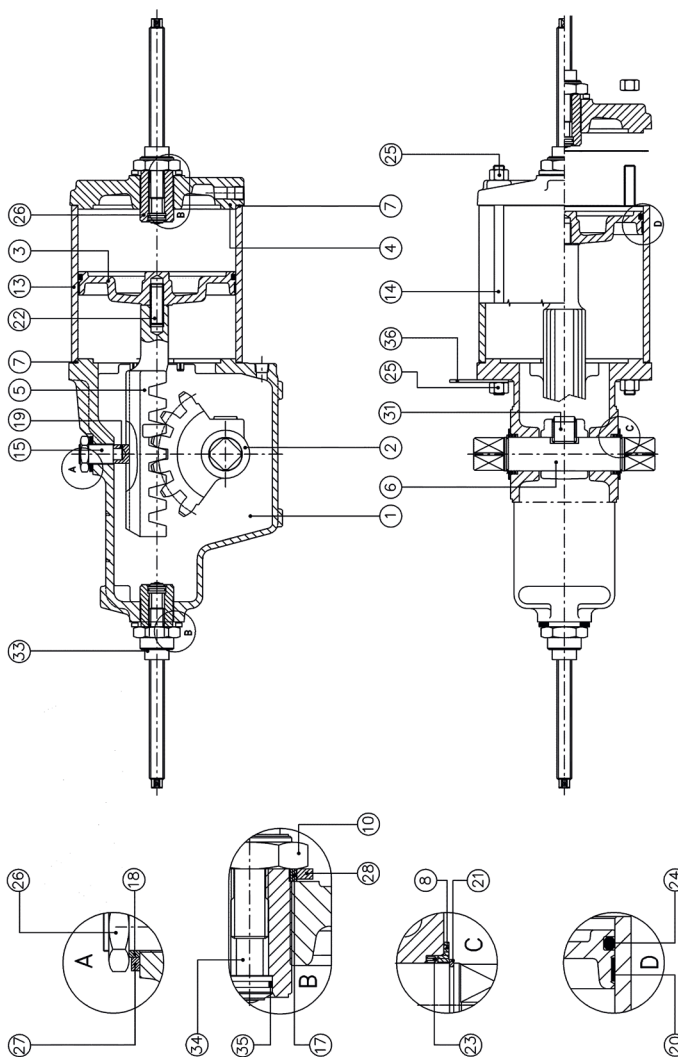


Table 10. Parts list

Item	Qty	Description	Material
1	1	Housing	Nodular cast iron
2	1	Pinion	Nodular cast iron
3	1	Piston	Carbon steel
4	1	End flange	Carbon steel
5	1	Rack	Nodular cast iron
6	1	Shaft	Nickel plated carbon steel
7	2	Cylinder gasket	*NBR rubber
8	2	Shoulder washer	*Nylon
10	2	Nut	Carbon steel
13	1	Cylinder tube	Nickel plated carbon steel
14	4	Tie rod	Alloy steel
15	1	Thrust bearing screw	Alloy steel
17	2	Sealing washer	*PVC
18	1	Sealing washer	*PVC
19	1	Sliding block	Bronze
20	1	Piston guide sliding ring	*Teflon + graphite
21	2	Retainer ring	*Stainless steel
22	1	Screw	Alloy steel
23	2	O-ring	*NBR rubber
24	1	O-ring	*NBR rubber
25	8	Nut	Carbon steel #
26	1	Nut	Carbon steel
27	1	Washer	Carbon steel
28	2	Washer	Carbon steel
31	1	Screw	Alloy steel
33	2	Stop setting screw	Bronze #
34	2	Manual override jackscrew	Stainless steel **
35	2	O-ring	*NBR rubber
36	2	Lifting eyelet	Carbon steel

NOTE:

* Recommended spare parts

** Stainless steel mandatory in case of offshore application

Stainless steel available in case of offshore application

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