

FESTO

Release list

Mechanics

for the business unit battery cell and -systems
at Components Manufacturing
of the Volkswagen Group
„Technical-Section-Specific part“

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Revision history

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1.0	2022-03-08	Start
1.1	2022-04-13	Specification Mechanic „battery“ reworked (Version 1.1) Oiler (MS-LOE) removed
1.2	2023-04-01	Specification Mechanic „battery“ reworked (Version 1.2) VSNC, Plug socket, Flow control plate

Note:

This document complements the equipment release list Mechanics for the components manufacturing of the Volkswagen Group “Technology-Specific Part” for the business unit battery cell and -systems. In particular, VOLKSWAGEN AG reserves all rights for technical exploitation of the information provided in this specifications, including the registration and grant of industrial property rights.

Content changes are shown in grey.

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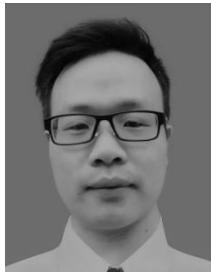


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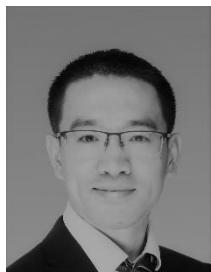
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2. Notes

2.1 Purpose of use

The basis for the following release list is the **mechanical systems specification for the component manufacturing of the Volkswagen Group** in the current edition. The respective requirements and restrictions must be complied with.

This document has been prepared exclusively for the business unit battery cell and -systems and is intended and only valid for machines in battery cell manufacturing

2.2 General Notes

The products of Festo SE & Co. KG listed in this release list are intended to cover the requirements in the production areas business unit battery cell and -systems and is intended and only valid for machines in battery cell manufacturing of the Volkswagen Group and must be as far as possible in the sense of rational procurement, planning, maintenance and warehousing be used.

If, for project-specific reasons, deviations are required for a better solution of the production tasks, the special components must be coordinated with the customer in good time.

The released products are limited to the respective part numbers of Festo SE & Co. KG.

The release list does not release the requirement to read the Specification Sheet "**mechanical systems specification for the component manufacturing**" of the **Volkswagen Group**.

The general terms and conditions of Festo SE & Co. KG apply to you.

2.3 Specific requirements in Battery cell production (part I): Dry room characteristic of components

A dry-room environment with a pressure dew point of -50°C to in some cases -80°C is typical for lithium-ion battery machines. The dry-room environment reduces the hydrophilic tendency of many electrolytes and prevents the risk of harmful hydrofluoric acid forming through reaction with the ambient air humidity.

Stock products from Festo have proven their worth in dry-room applications such as battery manufacturing. **Festo products can be used in environments with a dew point of -80°C or even lower** since none of the approximately 60 different greases used by Festo contains water as an integral part of the formulation of the lubricant.

These greases will therefore not desiccate in contact with even very dry air. Moreover, none of Festo's greases needs humidity or even liquid water for their lubrication properties.

2.4 Specific Requirements in Battery cell production (part II): Restrictions regarding copper, zinc, and nickel

Depending on the material used for the electrolytes and electrodes in the production of lithium-ion secondary batteries, copper, zinc, and nickel can be considered as interfering particles. Festo has therefore defined criteria for its products recommended for secondary battery production to restrict their copper, zinc, and nickel content. This means that metals that are mainly made up of either copper, zinc, or nickel, are excluded from use. However, some alloys require supplements of these elements as a part of the metal matrix.

Exceptions from material restrictions regarding copper, zinc, and nickel:

- Nickel in ferrous metals
- Electroless nickel plating without copper base layer
- Inert chemical compounds, such as oxides and sulfides
- PCBs, electric connectors, cables, wires, and coils

Festo recommends usage of products with restrictions regarding copper, zinc, and nickel in secondary battery production, especially in the following manufacturing processes:

- Material distribution
- Coating
- Drying
- Calendering
- Slitting
- Vacuum-drying
- Separation
- Stacking/winding
- Packaging
- Filling

Products fulfilling these requirements are either indicated with a suffix "F1A" in the order code or classified within technical data of product documentation. Additionally, products with restrictions regarding non-ferrous metals are highlighted in this specification sheet with a blue • .

Irrespective of this, products without corresponding restrictions have proven worth in battery cell production. In this case, the machine builder must take precautions to prevent or reduce the risk of contamination of the battery cells with interfering particles. From Festo's point of view, such precautions can be e.g. the encapsulation of possible emission sources, evacuation, installation of the components below the critical process and protection through laminar air flow.

These products are highlighted in this specification sheet with a blue (•).

2.5 The right automation product for your battery production

Components from Festo can be used in all the process steps in battery production. The solution that is right for you depends entirely on your exact requirements. We have put together an overview to give you a rough idea of which components our experts consider to be particularly well suited for each individual production step.

Material distribution	Coating	Drying	Calendering	Slitting	Vacuum-drying	Separation	Stacking/winding	Packaging	Filling	Formation	Degassing	High temp aging	Low temp aging	EOL testing

Pneumatic drives

	DSBC	•	•	•	•	•	•	•	•	•	•	•	•	•
	DSBG	(•)			(•)	(•)					(•)	(•)	(•)	
	DSNU-S	•	•	•	•	•	•	•	•	•	•	•	•	•
	ADN-S		•	•	•	•	•	•	•	•	•	•	•	•
	ADN	•	•	•	•	•	•	•	•	•	•	•	•	•
	ADNGF		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DLGF			(•)	(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DGC-K	(•)	(•)	(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DGC	(•)	(•)	(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DRVS			•	•		•	•	•	•	•	•	•	•
	DSM			(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DRRD			(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DGST	•	•	•	•	•	•	•	•	•	•	•	•	•
	DFM	•	•	•	•	•	•	•	•	•	•	•	•	•
	DACS	(•)	(•)				(•)	(•)	(•)	(•)	(•)	(•)		
	KPE			(•)	(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Electric drives

	ELGC-TB			•	•				•	•		•	•	•
	ELGC-BS				•	•				•	•		•	•
	EGC-BS			(•)	(•)			(•)	(•)	(•)	(•)	(•)	(•)	(•)
	ELGA-TB-KF			(•)	(•)			(•)	(•)		(•)		(•)	(•)
	ESBF		•			•		•	•	•	•		•	•
	EGSC				•	•			•	•		•	•	•

Motors and controllers

	EMMS-ST		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	EMGA		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	CMMT-ST		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Vacuum technology

	OVEL				•		•	•	•	•	•	•	•	•
	OVEM				(•)		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VN (pneum.)				•		•	•	•	•	•	•	•	•

Valves

	VUVG (Single)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	VUVG (plugin)	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	VUWG	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VSNC	(•)	(•)	(•)			(•)				(•)		(•)	(•)	(•)
	VOFA	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	HGL	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	HAB	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VBNF	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	H	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	SE / SEU	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	GrxA / GRxZ	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	GR / GRA	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	GRE	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VEAB		(•)	(•)	(•)			(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VPPE			•	•	•		•	•	•	•	•	•	•	•
	OS (OR)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	ZK (AND)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Valve terminals

	VTUG	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VTUG-F1A	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	CTEU	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Sensors

	SMT-8M-A	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	SDPT	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	SMBR	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	SAMH	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	SMM	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	SPAU	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Safety oriented pneumatics

	VOFA	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	VL	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS6-SV	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Compressed air preparation

	MSx-EE	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MSx-DL	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MSx-SV	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MSx-FRM	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MSx-FRM-FRZ	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS4-LFR	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MS6-LFR	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MS9-LFR	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS12-LFR	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS6-LFM	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS6-LFX	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS4-LR	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MS6-LR	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MS9-LR	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS12-LR	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	MS6-LRP	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

	LRP		•	•	•	•	•	•	•	•	•	•	•	•	•	•
	MA		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	PEV		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	DPA		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

Pneumatic connection technology

	PUN-H		•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PUN-V0		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	NPQE-F1A		•	•	•	•	•	•	•	•	•	•	•	•	•	•
	NPQR		•	•	•	•	•	•	•	•	•	•	•	•	•	•

Control technology

	VLG			(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)					
--	-----	--	--	-----	-----	-----	-----	-----	-----	-----	-----	--	--	--	--	--

Other pneumatic equipment

	U		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)
	U0		(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)	(•)

3. Overview

3.1 Pneumatic drives

3.1.1. DSBC Standard cylinder to ISO 15552

Name	Order code	Remarks	Picture	Links
Standard cylinder DSBC	DSBC-...	Diameter: 32, 50, 63, 80, 100, 125 mm Stroke length 25 ... 500 mm Force: 483 ... 7363 N Double-acting Position sensing adjustable		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1376422	DSBC-32-25-PPVA-N3	standards-based cylinder	 PDF  CAD
1376424	DSBC-32-50-PPVA-N3	standards-based cylinder	 PDF  CAD
1376425	DSBC-32-80-PPVA-N3	standards-based cylinder	 PDF  CAD
1376426	DSBC-32-100-PPVA-N3	standards-based cylinder	 PDF  CAD
1376427	DSBC-32-125-PPVA-N3	standards-based cylinder	 PDF  CAD
1376428	DSBC-32-160-PPVA-N3	standards-based cylinder	 PDF  CAD
1376429	DSBC-32-200-PPVA-N3	standards-based cylinder	 PDF  CAD
1376430	DSBC-32-250-PPVA-N3	standards-based cylinder	 PDF  CAD
1376431	DSBC-32-320-PPVA-N3	standards-based cylinder	 PDF  CAD
1376432	DSBC-32-400-PPVA-N3	standards-based cylinder	 PDF  CAD
1376433	DSBC-32-500-PPVA-N3	standards-based cylinder	 PDF  CAD
1366948	DSBC-50-25-PPVA-N3	standards-based cylinder	 PDF  CAD
1366950	DSBC-50-50-PPVA-N3	standards-based cylinder	 PDF  CAD
1366951	DSBC-50-80-PPVA-N3	standards-based cylinder	 PDF  CAD
1366952	DSBC-50-100-PPVA-N3	standards-based cylinder	 PDF  CAD
1366953	DSBC-50-125-PPVA-N3	standards-based cylinder	 PDF  CAD
1366954	DSBC-50-160-PPVA-N3	standards-based cylinder	 PDF  CAD
1366955	DSBC-50-200-PPVA-N3	standards-based cylinder	 PDF  CAD
1366956	DSBC-50-250-PPVA-N3	standards-based cylinder	 PDF  CAD
1366957	DSBC-50-320-PPVA-N3	standards-based cylinder	 PDF  CAD
1366958	DSBC-50-400-PPVA-N3	standards-based cylinder	 PDF  CAD
1366959	DSBC-50-500-PPVA-N3	standards-based cylinder	 PDF  CAD
1383578	DSBC-63-25-PPVA-N3	standards-based cylinder	 PDF  CAD
1383580	DSBC-63-50-PPVA-N3	standards-based cylinder	 PDF  CAD
1383581	DSBC-63-80-PPVA-N3	standards-based cylinder	 PDF  CAD
1383582	DSBC-63-100-PPVA-N3	standards-based cylinder	 PDF  CAD
1383583	DSBC-63-125-PPVA-N3	standards-based cylinder	 PDF  CAD
1383584	DSBC-63-160-PPVA-N3	standards-based cylinder	 PDF  CAD
1383585	DSBC-63-200-PPVA-N3	standards-based cylinder	 PDF  CAD
1383586	DSBC-63-250-PPVA-N3	standards-based cylinder	 PDF  CAD
1383587	DSBC-63-320-PPVA-N3	standards-based cylinder	 PDF  CAD
1383588	DSBC-63-400-PPVA-N3	standards-based cylinder	 PDF  CAD
1383589	DSBC-63-500-PPVA-N3	standards-based cylinder	 PDF  CAD
1383333	DSBC-80-25-PPVA-N3	standards-based cylinder	 PDF  CAD
1383335	DSBC-80-50-PPVA-N3	standards-based cylinder	 PDF  CAD
1383336	DSBC-80-80-PPVA-N3	standards-based cylinder	 PDF  CAD
1383337	DSBC-80-100-PPVA-N3	standards-based cylinder	 PDF  CAD
1383338	DSBC-80-125-PPVA-N3	standards-based cylinder	 PDF  CAD

Part no.	Order code	Name	Links
1383339	DSBC-80-160-PPVA-N3	standards-based cylinder	
1383340	DSBC-80-200-PPVA-N3	standards-based cylinder	
1383341	DSBC-80-250-PPVA-N3	standards-based cylinder	
1383342	DSBC-80-320-PPVA-N3	standards-based cylinder	
1383343	DSBC-80-400-PPVA-N3	standards-based cylinder	
1383344	DSBC-80-500-PPVA-N3	standards-based cylinder	
1384804	DSBC-100-25-PPVA-N3	standards-based cylinder	
1384806	DSBC-100-50-PPVA-N3	standards-based cylinder	
1384807	DSBC-100-80-PPVA-N3	standards-based cylinder	
1384808	DSBC-100-100-PPVA-N3	standards-based cylinder	
1384809	DSBC-100-125-PPVA-N3	standards-based cylinder	
1384810	DSBC-100-160-PPVA-N3	standards-based cylinder	
1384811	DSBC-100-200-PPVA-N3	standards-based cylinder	
1384812	DSBC-100-250-PPVA-N3	standards-based cylinder	
1384813	DSBC-100-320-PPVA-N3	standards-based cylinder	
1384814	DSBC-100-400-PPVA-N3	standards-based cylinder	
1384815	DSBC-100-500-PPVA-N3	standards-based cylinder	
1804956	DSBC-125-25-PPVA-N3	standards-based cylinder	
1804958	DSBC-125-50-PPVA-N3	standards-based cylinder	
1804959	DSBC-125-80-PPVA-N3	standards-based cylinder	
1804960	DSBC-125-100-PPVA-N3	standards-based cylinder	
1804961	DSBC-125-125-PPVA-N3	standards-based cylinder	
1804962	DSBC-125-160-PPVA-N3	standards-based cylinder	
1804963	DSBC-125-200-PPVA-N3	standards-based cylinder	
1804964	DSBC-125-250-PPVA-N3	standards-based cylinder	
1804965	DSBC-125-320-PPVA-N3	standards-based cylinder	
1804966	DSBC-125-400-PPVA-N3	standards-based cylinder	
1804967	DSBC-125-500-PPVA-N3	standards-based cylinder	

3.1.2. DSBG Standard cylinder to ISO 15552

Name	Order code	Remarks	Picture	Links
Standard cylinder DSBG	DSBG-...	Diameter 160, 200 mm Stroke length 25 ... 500 mm Force: 483 ... 48255 N Double-acting Position sensing adjustable		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
2029462	DSBG-160-25-PPVA-N3	standards-based cylinder	
2029464	DSBG-160-50-PPVA-N3	standards-based cylinder	
2029465	DSBG-160-80-PPVA-N3	standards-based cylinder	
2029466	DSBG-160-100-PPVA-N3	standards-based cylinder	
2029467	DSBG-160-125-PPVA-N3	standards-based cylinder	
2029468	DSBG-160-160-PPVA-N3	standards-based cylinder	
2029469	DSBG-160-200-PPVA-N3	standards-based cylinder	
2029470	DSBG-160-250-PPVA-N3	standards-based cylinder	
2029471	DSBG-160-320-PPVA-N3	standards-based cylinder	
2029472	DSBG-160-400-PPVA-N3	standards-based cylinder	
2029473	DSBG-160-500-PPVA-N3	standards-based cylinder	

Part no.	Order code	Name	Links
2390139	DSBG-200-25-PPVA-N3	standards-based cylinder	
2390141	DSBG-200-50-PPVA-N3	standards-based cylinder	
2390142	DSBG-200-80-PPVA-N3	standards-based cylinder	
2390143	DSBG-200-100-PPVA-N3	standards-based cylinder	
2390144	DSBG-200-125-PPVA-N3	standards-based cylinder	
2390145	DSBG-200-160-PPVA-N3	standards-based cylinder	
2390146	DSBG-200-200-PPVA-N3	standards-based cylinder	
2390147	DSBG-200-250-PPVA-N3	standards-based cylinder	
2390148	DSBG-200-320-PPVA-N3	standards-based cylinder	
2390149	DSBG-200-400-PPVA-N3	standards-based cylinder	
2390150	DSBG-200-500-PPVA-N3	standards-based cylinder	

3.1.3. DSNU-S Round cylinders

Name	Order code	Remarks	Picture	Links
Round cylinders DSNU-S	DSNU-...	Diameter 12, 16, 20, 25 mm Stroke length 25, 50, 80, 100 mm Force: 19 ... 1870 N Double-acting Position sensing Fixed Mounting flange and short end cap		DKI Catalogue PDF Documentation DKI 电子目录 PDF 文档 DKI 카타로그 PDF 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8148786	DSNU-S-12-25-P-A-F1A	round cylinder	
8148786	DSNU-S-12-50-P-A-F1A	round cylinder	
8148786	DSNU-S-12-80-P-A-F1A	round cylinder	
8148786	DSNU-S-12-100-P-A-F1A	round cylinder	
8148787	DSNU-S-16-25-P-A-F1A	round cylinder	
8148787	DSNU-S-16-50-P-A-F1A	round cylinder	
8148787	DSNU-S-16-80-P-A-F1A	round cylinder	
8148787	DSNU-S-16-100-P-A-F1A	round cylinder	
8148788	DSNU-S-20-25-P-A-F1A	round cylinder	
8148788	DSNU-S-20-50-P-A-F1A	round cylinder	
8148788	DSNU-S-20-80-P-A-F1A	round cylinder	
8148788	DSNU-S-20-100-P-A-F1A	round cylinder	
8148789	DSNU-S-25-25-P-A-F1A	round cylinder	
8148789	DSNU-S-25-50-P-A-F1A	round cylinder	
8148789	DSNU-S-25-80-P-A-F1A	round cylinder	
8148789	DSNU-S-25-100-P-A-F1A	round cylinder	

3.1.4. ADN-S Compact, short stroke and flat cylinder

Name	Order code	Remarks	Picture	Links
Compact cylinder ADN-S	ADN-...	Diameter 12, 16, 20 mm Stroke length 5, 10, 20, 30, 40, 50 mm Force 9.4 ... 1870 N Double-acting Cushioning without/fixed		DKI Catalogue PDF Documentation DKI 电子目录 PDF 文档 DKI 카타로그 PDF 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8142562	ADN-S-12-5-I-P-A-F1A	compact cylinder	
8142563	ADN-S-12-10-I-P-A-F1A	compact cylinder	
8142565	ADN-S-12-20-I-P-A-F1A	compact cylinder	
8142567	ADN-S-12-30-I-P-A-F1A	compact cylinder	
8142728	ADN-S-16-5-I-P-A-F1A	compact cylinder	
8142729	ADN-S-16-10-I-P-A-F1A	compact cylinder	
8142731	ADN-S-16-20-I-P-A-F1A	compact cylinder	
8142733	ADN-S-16-30-I-P-A-F1A	compact cylinder	
8142756	ADN-S-20-5-I-P-A-F1A	compact cylinder	
8142757	ADN-S-20-10-I-P-A-F1A	compact cylinder	
8142759	ADN-S-20-20-I-P-A-F1A	compact cylinder	
8142761	ADN-S-20-30-I-P-A-F1A	compact cylinder	
8142763	ADN-S-20-40-I-P-A-F1A	compact cylinder	
8142765	ADN-S-20-50-I-P-A-F1A	compact cylinder	

3.1.5. ADN Compact cylinders to ISO 21287

Name	Order code	Remarks	Picture	Links
Compact cylinder ADN ISO 21287	ADN-...-I-P-A	Diameter 20, 32, 40, 50, 63, 80 mm Stroke length 10, 20, 30, 40, 50 mm Force 51 ... 7 363 N Double acting Damping fixed Inside thread		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
536243	ADN-20-10-I-P-A	Compact cylinder	
536245	ADN-20-20-I-P-A	Compact cylinder	
536247	ADN-20-30-I-P-A	Compact cylinder	
536248	ADN-20-40-I-P-A	Compact cylinder	
536249	ADN-20-50-I-P-A	Compact cylinder	
536279	ADN-32-10-I-P-A	Compact cylinder	
536281	ADN-32-20-I-P-A	Compact cylinder	
536283	ADN-32-30-I-P-A	Compact cylinder	
536284	ADN-32-40-I-P-A	Compact cylinder	
536285	ADN-32-50-I-P-A	Compact cylinder	
536300	ADN-40-10-I-P-A	Compact cylinder	
536302	ADN-40-20-I-P-A	Compact cylinder	
536304	ADN-40-30-I-P-A	Compact cylinder	
536305	ADN-40-40-I-P-A	Compact cylinder	
536306	ADN-40-50-I-P-A	Compact cylinder	
536321	ADN-50-10-I-P-A	Compact cylinder	
536323	ADN-50-20-I-P-A	Compact cylinder	
536325	ADN-50-30-I-P-A	Compact cylinder	
536326	ADN-50-40-I-P-A	Compact cylinder	
536327	ADN-50-50-I-P-A	Compact cylinder	
536342	ADN-63-10-I-P-A	Compact cylinder	
536344	ADN-63-20-I-P-A	Compact cylinder	
536346	ADN-63-30-I-P-A	Compact cylinder	
536347	ADN-63-40-I-P-A	Compact cylinder	
536348	ADN-63-50-I-P-A	Compact cylinder	

Part no.	Order code	Name	Links
536363	ADN-80-10-I-P-A	Compact cylinder	
536365	ADN-80-20-I-P-A	Compact cylinder	
536367	ADN-80-30-I-P-A	Compact cylinder	
536368	ADN-80-40-I-P-A	Compact cylinder	
536369	ADN-80-50-I-P-A	Compact cylinder	

3.1.6. ADNGF Compact, short stroke and flat cylinder

Name	Order code	Remarks	Picture	Links
Compact cylinder ADNGF, metric	ADNGF-...	Diameter 20, 32, 40, 50, 63, 80 mm Stroke length 10, 20, 30, 40, 50 mm Force 68 ... 4712 N Position sensing Cushioning fixed		DKI Catalogue DKI Documentation DKI 电子目录 DKI 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
554221	ADNGF-20-10-P-A	compact cylinder	
554223	ADNGF-20-20-P-A	compact cylinder	
554225	ADNGF-20-30-P-A	compact cylinder	
554226	ADNGF-20-40-P-A	compact cylinder	
554227	ADNGF-20-50-P-A	compact cylinder	
554239	ADNGF-32-10-P-A	compact cylinder	
554241	ADNGF-32-20-P-A	compact cylinder	
554243	ADNGF-32-30-P-A	compact cylinder	
554244	ADNGF-32-40-P-A	compact cylinder	
554245	ADNGF-32-50-P-A	compact cylinder	
554249	ADNGF-40-10-P-A	compact cylinder	
554251	ADNGF-40-20-P-A	compact cylinder	
554253	ADNGF-40-30-P-A	compact cylinder	
554254	ADNGF-40-40-P-A	compact cylinder	
554255	ADNGF-40-50-P-A	compact cylinder	
554259	ADNGF-50-10-P-A	compact cylinder	
554261	ADNGF-50-20-P-A	compact cylinder	
554263	ADNGF-50-30-P-A	compact cylinder	
554264	ADNGF-50-40-P-A	compact cylinder	
554265	ADNGF-50-50-P-A	compact cylinder	
554268	ADNGF-63-10-P-A	compact cylinder	
554270	ADNGF-63-20-P-A	compact cylinder	
554272	ADNGF-63-30-P-A	compact cylinder	
554273	ADNGF-63-40-P-A	compact cylinder	
554274	ADNGF-63-50-P-A	compact cylinder	
554277	ADNGF-80-10-P-A	compact cylinder	
554279	ADNGF-80-20-P-A	compact cylinder	
554281	ADNGF-80-30-P-A	compact cylinder	
554282	ADNGF-80-40-P-A	compact cylinder	
554283	ADNGF-80-50-P-A	compact cylinder	

3.1.7. DLGF Mechanical coupling

Name	Order code	Remarks	Picture	Links
Linear drives DLGF	DLGF...	Diameter 20, 25 mm Stroke length 100 ... 600 mm Force 188 ... 754 N Position sensing Pneumatic cushioning, self-adjusting at both ends		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
5074918	DLGF-G-20-100-PPSA	linear drive	
5074938	DLGF-KF-20-100-PPSA	linear drive	
5074939	DLGF-KF-20-150-PPSA	linear drive	
5074919	DLGF-G-20-150-PPSA	linear drive	
5074920	DLGF-G-20-200-PPSA	linear drive	
5074940	DLGF-KF-20-200-PPSA	linear drive	
5074921	DLGF-G-20-250-PPSA	linear drive	
5074941	DLGF-KF-20-250-PPSA	linear drive	
5074942	DLGF-KF-20-300-PPSA	linear drive	
5074922	DLGF-G-20-300-PPSA	linear drive	
5074923	DLGF-G-20-350-PPSA	linear drive	
5074943	DLGF-KF-20-350-PPSA	linear drive	
5074924	DLGF-G-20-400-PPSA	linear drive	
5074944	DLGF-KF-20-400-PPSA	linear drive	
5074946	DLGF-KF-20-500-PPSA	linear drive	
5074926	DLGF-G-20-500-PPSA	linear drive	
5074948	DLGF-KF-20-600-PPSA	linear drive	
5074928	DLGF-G-20-600-PPSA	linear drive	
5072350	DLGF-G-25-100-PPSA	linear drive	
5072370	DLGF-KF-25-100-PPSA	linear drive	
5072371	DLGF-KF-25-150-PPSA	linear drive	
5072351	DLGF-G-25-150-PPSA	linear drive	
5072372	DLGF-KF-25-200-PPSA	linear drive	
5072352	DLGF-G-25-200-PPSA	linear drive	
5072353	DLGF-G-25-250-PPSA	linear drive	
5072373	DLGF-KF-25-250-PPSA	linear drive	
5072354	DLGF-G-25-300-PPSA	linear drive	
5072374	DLGF-KF-25-300-PPSA	linear drive	
5072355	DLGF-G-25-350-PPSA	linear drive	
5072375	DLGF-KF-25-350-PPSA	linear drive	
5072356	DLGF-G-25-400-PPSA	linear drive	
5072376	DLGF-KF-25-400-PPSA	linear drive	
5072358	DLGF-G-25-500-PPSA	linear drive	
5072378	DLGF-KF-25-500-PPSA	linear drive	
5072360	DLGF-G-25-600-PPSA	linear drive	
5072380	DLGF-KF-25-600-PPSA	linear drive	

3.1.8. DGC-K Mechanical coupling

Name	Order code	Remarks	Picture	Links
Linear drives DGC-K	DGC-...	Diameter: 32, 50, 63, 80 mm Stroke length: 125 ... 1000 mm Force: 153 ... 3016 N Position sensing		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1312502	DGC-K-32-125-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-160-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-200-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-250-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-320-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-400-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-500-PPV-A-GK	Linear drive	  
1312502	DGC-K-32-1000-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-125-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-160-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-200-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-250-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-320-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-400-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-500-PPV-A-GK	Linear drive	  
1312504	DGC-K-50-1000-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-125-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-160-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-200-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-250-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-320-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-400-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-500-PPV-A-GK	Linear drive	  
1312505	DGC-K-63-1000-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-125-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-160-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-200-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-250-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-320-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-400-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-500-PPV-A-GK	Linear drive	  
1312506	DGC-K-80-1000-PPV-A-GK	Linear drive	  

3.1.9. DGC Mechanical coupling

Name	Order code	Remarks	Picture	Links
Linear drives DGC	DGC-...	Diameter: 32, 50, 63 mm Stroke length: 125 ... 1000 mm Force: 30 ... 1870 N Position sensing Various cushioning options		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
532448	DGC-32-125-KF-PPV-A	Linear drive	  
532448	DGC-32-125-GF-PPV-A	Linear drive	  
532448	DGC-32-160-KF-PPV-A	Linear drive	  
532448	DGC-32-160-GF-PPV-A	Linear drive	  
532448	DGC-32-200-KF-PPV-A	Linear drive	  
532448	DGC-32-200-GF-PPV-A	Linear drive	  
532448	DGC-32-250-KF-PPV-A	Linear drive	  
532448	DGC-32-250-GF-PPV-A	Linear drive	  
532448	DGC-32-320-KF-PPV-A	Linear drive	  
532448	DGC-32-320-GF-PPV-A	Linear drive	  
532448	DGC-32-400-KF-PPV-A	Linear drive	  
532448	DGC-32-400-GF-PPV-A	Linear drive	  
532448	DGC-32-500-KF-PPV-A	Linear drive	  
532448	DGC-32-500-GF-PPV-A	Linear drive	  
532448	DGC-32-1000-KF-PPV-A	Linear drive	  
532448	DGC-32-1000-GF-PPV-A	Linear drive	  
532450	DGC-50-125-KF-PPV-A	Linear drive	  
532450	DGC-50-125-GF-PPV-A	Linear drive	  
532450	DGC-50-160-KF-PPV-A	Linear drive	  
532450	DGC-50-160-GF-PPV-A	Linear drive	  
532450	DGC-50-200-KF-PPV-A	Linear drive	  
532450	DGC-50-200-GF-PPV-A	Linear drive	  
532450	DGC-50-250-KF-PPV-A	Linear drive	  
532450	DGC-50-250-GF-PPV-A	Linear drive	  
532450	DGC-50-320-KF-PPV-A	Linear drive	  
532450	DGC-50-320-GF-PPV-A	Linear drive	  
532450	DGC-50-400-KF-PPV-A	Linear drive	  
532450	DGC-50-400-GF-PPV-A	Linear drive	  
532450	DGC-50-500-KF-PPV-A	Linear drive	  
532450	DGC-50-500-GF-PPV-A	Linear drive	  
532450	DGC-50-1000-KF-PPV-A	Linear drive	  
532450	DGC-50-1000-GF-PPV-A	Linear drive	  
532451	DGC-63-160-GF-PPV-A	Linear drive	  
532451	DGC-63-200-GF-PPV-A	Linear drive	  
532451	DGC-63-250-GF-PPV-A	Linear drive	  
532451	DGC-63-320-GF-PPV-A	Linear drive	  
532451	DGC-63-400-GF-PPV-A	Linear drive	
532451	DGC-63-500-GF-PPV-A	Linear drive	
532451	DGC-63-1000-GF-PPV-A	Linear drive	

3.1.10. DRVS Semi-rotary drives with rotary vane

DRVS is also available in a version for "EU Explosion Protection Directive (ATEX)". The code is "EX4" in the Identcode. This must be approved by the general contractor

Name	Order code	Remarks	Picture	Links
Semi-rotary drives DRVS	DRVS-...	Size 12, 16, 25, 32, 40 mm Torque 0.15 ... 20 Nm Swivel angle 90, 180, 270° Position sensing Fixed elastic cushioning elements on both sides		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1845710	DRVS-12-90-P	semi-rotary drive	  
1845711	DRVS-12-180-P	semi-rotary drive	  
1845712	DRVS-12-270-P	semi-rotary drive	  
1845713	DRVS-16-90-P	semi-rotary drive	  
1845714	DRVS-16-180-P	semi-rotary drive	  
1845715	DRVS-16-270-P	semi-rotary drive	  
1845716	DRVS-25-90-P	semi-rotary drive	  
1845717	DRVS-25-180-P	semi-rotary drive	  
1845718	DRVS-25-270-P	semi-rotary drive	  
1845719	DRVS-32-90-P	semi-rotary drive	  
1845720	DRVS-32-180-P	semi-rotary drive	  
1845721	DRVS-32-270-P	semi-rotary drive	  
1845722	DRVS-40-90-P	semi-rotary drive	  
1845723	DRVS-40-180-P	semi-rotary drive	  
1845724	DRVS-40-270-P	semi-rotary drive	  

3.1.11. DSM Semi-rotary drives with rotary vane

Name	Order code	Remarks	Picture	Links
Swivel modules DSM	DSM-...	Size 12, 16, 25, 32, 40, 63 mm Torque 0.15 ... 80 Nm Swivel angle 0 ... 270° Position sensing Adjustable cushioning.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
547572	DSM-12-270-CC-A-B	semi-rotary drive	  
547570	DSM-12-270-P-A-B	semi-rotary drive	  
547576	DSM-16-270-CC-A-B	semi-rotary drive	  
547574	DSM-16-270-P-A-B	semi-rotary drive	  
547580	DSM-25-270-CC-A-B	semi-rotary drive	  
547578	DSM-25-270-P-A-B	semi-rotary drive	  
547584	DSM-32-270-CC-A-B	semi-rotary drive	  
547582	DSM-32-270-P-A-B	semi-rotary drive	  
547588	DSM-40-270-CC-A-B	semi-rotary drive	  
547586	DSM-40-270-P-A-B	semi-rotary drive	  

3.1.12. DRRD Semi-rotary drives with rack and pinion

Name	Order code	Remarks	Picture	Links
Semi-rotary drives DRRD	DRRD-....	Size 16, 20, 25, 32, 35, 40, 50, 63 mm Torque 0.2 ... 112 Nm Swivel angle 0 ... 180° Position sensing Cushioning: elastic (P), hydraulic shock absorbers Flanged shaft		  Catalogue   Documentation   电子目录   文档   카타로그   카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1577238	DRRD-16-180-FH-PA	semi-rotary drive	  
1395606	DRRD-20-180-FH-PA	semi-rotary drive	  
1359980	DRRD-25-180-FH-PA	semi-rotary drive	  
1578512	DRRD-32-180-FH-PA	semi-rotary drive	  
1526825	DRRD-35-180-FH-PA	semi-rotary drive	  
1503269	DRRD-40-180-FH-PA	semi-rotary drive	  
574405 (*)	DRRD-50-50-180-FH-Y9A	semi-rotary drive	  
574407 (*)	DRRD-63-180-FH-Y9A	semi-rotary drive	  

(*) It is a configurable product.

3.1.13. DGST Drives with slide

Name	Order code	Remarks	Picture	Links
Mini slide DGST	DGST-....	Size 12, 16, 20, 25 Stroke length 10 ... 100 mm Force 25 ... 589 N Position sensing Fixed/adjustable cushioning Recirculating ball bearing guide, ball bearing cage guide (for sizes 20, 25)		  Catalogue   Documentation   电子目录   文档   카타로그   카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8073894 (*)	DGST-12-10-E1A-F1A	mini slide	  
8073894 (*)	DGST-12-25-E1A-F1A	mini slide	  
8073894 (*)	DGST-12-50-E1A-F1A	mini slide	  
8073894 (*)	DGST-12-80-E1A-F1A	mini slide	  
8073894 (*)	DGST-12-100-E1A-F1A	mini slide	  
8073895 (*)	DGST-16-10-E1A-F1A	mini slide	  
8073895 (*)	DGST-16-25-E1A-F1A	mini slide	  
8073895 (*)	DGST-16-50-E1A-F1A	mini slide	  
8073895 (*)	DGST-16-80-E1A-F1A	mini slide	  
8073895 (*)	DGST-16-100-E1A-F1A	mini slide	  
8073896 (*)	DGST-20-10-E1A-F1A	mini slide	  
8073896 (*)	DGST-20-25-E1A-F1A	mini slide	  
8073896 (*)	DGST-20-50-E1A-F1A	mini slide	  
8073896 (*)	DGST-20-80-E1A-F1A	mini slide	  
8073896 (*)	DGST-20-100-E1A-F1A	mini slide	  

Part no.	Order code	Name	Links
8073897 (*)	DGST-25-10-E1A-F1A	mini slide	
8073897 (*)	DGST-25-25-E1A-F1A	mini slide	
8073897 (*)	DGST-25-50-E1A-F1A	mini slide	
8073897 (*)	DGST-25-80-E1A-F1A	mini slide	
8073897 (*)	DGST-25-100-E1A-F1A	mini slide	

(*) It is a configurable product.

3.1.14. DFM Drives with guide rods

Name	Order code	Remarks	Picture	Links
Guided drives DFM, metric	DFM-...	Diameter 16, 25, 32, 50, 63 mm Stroke length 10 ... 200 mm Force 13 ... 4712 N Position sensing Fixed/adjustable cushioning Plain-bearing guide Recirculating ball bearing guide		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8118830	DFM-16-10-P-A-KF-F1A	guided drive	
8118822	DFM-16-10-P-A-GF-F1A	guided drive	
8118832	DFM-16-25-P-A-KF-F1A	guided drive	
8118824	DFM-16-25-P-A-GF-F1A	guided drive	
8118834	DFM-16-40-P-A-KF-F1A	guided drive	
8118826	DFM-16-40-P-A-GF-F1A	guided drive	
8118835	DFM-16-50-P-A-KF-F1A	guided drive	
8118827	DFM-16-50-P-A-GF-F1A	guided drive	
8118836	DFM-16-80-P-A-KF-F1A	guided drive	
8118828	DFM-16-80-P-A-GF-F1A	guided drive	
8118837	DFM-16-100-P-A-KF-F1A	guided drive	
8118829	DFM-16-100-P-A-GF-F1A	guided drive	
8118870	DFM-25-25-P-A-KF-F1A	guided drive	
8118863	DFM-25-25-P-A-GF-F1A	guided drive	
8118872	DFM-25-40-P-A-KF-F1A	guided drive	
8118865	DFM-25-40-P-A-GF-F1A	guided drive	
8118873	DFM-25-50-P-A-KF-F1A	guided drive	
8118866	DFM-25-50-P-A-GF-F1A	guided drive	
8118874	DFM-25-80-P-A-KF-F1A	guided drive	
8118867	DFM-25-80-P-A-GF-F1A	guided drive	
8118875	DFM-25-100-P-A-KF-F1A	guided drive	
8118868	DFM-25-100-P-A-GF-F1A	guided drive	
8118892	DFM-32-25-P-A-KF-F1A	guided drive	
8118882	DFM-32-25-P-A-GF-F1A	guided drive	
8118894	DFM-32-40-P-A-KF-F1A	guided drive	
8118884	DFM-32-40-P-A-GF-F1A	guided drive	
8118895	DFM-32-50-P-A-KF-F1A	guided drive	
8118885	DFM-32-50-P-A-GF-F1A	guided drive	
8118896	DFM-32-80-P-A-KF-F1A	guided drive	
8118886	DFM-32-80-P-A-GF-F1A	guided drive	
8118897	DFM-32-100-P-A-KF-F1A	guided drive	
8118887	DFM-32-100-P-A-GF-F1A	guided drive	
8118898	DFM-32-125-P-A-KF-F1A	guided drive	

Part no.	Order code	Name	Links
8118888	DFM-32-125-P-A-GF-F1A	guided drive	
8118899	DFM-32-160-P-A-KF-F1A	guided drive	
8118899	DFM-32-160-P-A-GF-F1A	guided drive	
8118900	DFM-32-200-P-A-KF-F1A	guided drive	
8118900	DFM-32-200-P-A-GF-F1A	guided drive	
8118934	DFM-50-25-P-A-KF-F1A	guided drive	
8118927	DFM-50-25-P-A-GF-F1A	guided drive	
8118935	DFM-50-50-P-A-KF-F1A	guided drive	
8118928	DFM-50-50-P-A-GF-F1A	guided drive	
8118936	DFM-50-80-P-A-KF-F1A	guided drive	
8118929	DFM-50-80-P-A-GF-F1A	guided drive	
8118937	DFM-50-100-P-A-KF-F1A	guided drive	
8118930	DFM-50-100-P-A-GF-F1A	guided drive	
8118938	DFM-50-125-P-A-KF-F1A	guided drive	
8118931	DFM-50-125-P-A-GF-F1A	guided drive	
8118939	DFM-50-160-P-A-KF-F1A	guided drive	
8118932	DFM-50-160-P-A-GF-F1A	guided drive	
8118940	DFM-50-200-P-A-KF-F1A	guided drive	
8118933	DFM-50-200-P-A-GF-F1A	guided drive	
8118954	DFM-63-25-P-A-KF-F1A	guided drive	
8118947	DFM-63-25-P-A-GF-F1A	guided drive	
8118955	DFM-63-50-P-A-KF-F1A	guided drive	
8118948	DFM-63-50-P-A-GF-F1A	guided drive	
8118956	DFM-63-80-P-A-KF-F1A	guided drive	
8118949	DFM-63-80-P-A-GF-F1A	guided drive	
8118957	DFM-63-100-P-A-KF-F1A	guided drive	
8118950	DFM-63-100-P-A-GF-F1A	guided drive	
8118958	DFM-63-125-P-A-KF-F1A	guided drive	
8118951	DFM-63-125-P-A-GF-F1A	guided drive	
8118959	DFM-63-160-P-A-KF-F1A	guided drive	
8118952	DFM-63-160-P-A-GF-F1A	guided drive	
8118960	DFM-63-200-P-A-KF-F1A	guided drive	
8118953	DFM-63-200-P-A-GF-F1A	guided drive	

3.1.15. DACS Clamping elements

Name	Order code	Remarks	Picture	Links
Holding brakes DACS	DACS-...	Holding brake with and without load for static and rare dynamic applications.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8072770	DACS-16-A-S	Holding brake	
8072771	DACS-20-A-S	Holding brake	
8072772	DACS-25-A-S	Holding brake	
8072773	DACS-40-A-S	Holding brake	

3.1.16. KPE Clamping elements

Name	Order code	Remarks	Picture	Links
Clamping units KPE	KPE...	For round material 12, 16, 20, 25, 32 mm.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
178466	KPE-12	clamping unit	 PDF  CAD
178467	KPE-16	clamping unit	 PDF  CAD
178468	KPE-20	clamping unit	 PDF  CAD
178469	KPE-25	clamping unit	 PDF  CAD
178470	KPE-32	clamping unit	 PDF  CAD

3.2 Electric drives

The release of the components listed in this list occurs only after consultation with the specialist department.

The contractor must configure the drive in the controller in such a way that it is possible to replace the CMMT-ST without a programming device and Automation Suite.

See 4.1.1 Festo Automation Suite FAS and 4.1.2 "CMMT_FullParam" function block.

Memory reserves of the controller must be considered; if necessary, swap out to the load memory.

This does not release the contractor from handing over the complete Automation Suite project to the client as part of the documentation.

As an alternative to the stepper motors listed here and the types mentioned in section 4.3, the approved SERVO motors from the electrical specifications can still be used.

3.2.1. ELGC-TB Electric axes

Special strokes and strokes > 1000mm require a special release.

Name	Order code	Remarks	Picture	Links
Toothed belt axes ELGC-TB	ELGC...	Size 45, 60, 80 Stroke length: 200 ... 1000 mm Force 75 ... 250 N Integrated recirculating ball bearing guide		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8062768	ELGC-TB-KF-45-200	toothed belt axis	
8062769	ELGC-TB-KF-45-300	toothed belt axis	
8062770	ELGC-TB-KF-45-500	toothed belt axis	
8062771	ELGC-TB-KF-45-600	toothed belt axis	
8062772	ELGC-TB-KF-45-800	toothed belt axis	
8062773	ELGC-TB-KF-45-1000	toothed belt axis	
8062776	ELGC-TB-KF-60-200	toothed belt axis	
8062777	ELGC-TB-KF-60-300	toothed belt axis	
8062778	ELGC-TB-KF-60-500	toothed belt axis	
8062779	ELGC-TB-KF-60-600	toothed belt axis	
8062780	ELGC-TB-KF-60-800	toothed belt axis	
8062781	ELGC-TB-KF-60-1000	toothed belt axis	
8062786	ELGC-TB-KF-80-200	toothed belt axis	
8062787	ELGC-TB-KF-80-300	toothed belt axis	
8062788	ELGC-TB-KF-80-500	toothed belt axis	
8062789	ELGC-TB-KF-80-600	toothed belt axis	
8062790	ELGC-TB-KF-80-800	toothed belt axis	
8062791	ELGC-TB-KF-80-1000	toothed belt axis	

3.2.2. ELGC-BS Electric axes

Name	Order code	Remarks	Picture	Links
Spindle axes ELGC-BS	ELGC-...	Size 32, 45, 60 Stroke length 100 ... 800 mm Force 110 ... 780 N Integrated recirculating ball bearing guide		DKI Catalogue PDF Documentation DKI 电子目录 PDF 文档 DKI 카타로그 PDF 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8061477	ELGC-BS-KF-32-100-8P	spindle axis	
8061478	ELGC-BS-KF-32-200-8P	spindle axis	
8061479	ELGC-BS-KF-32-300-8P	spindle axis	
8061480	ELGC-BS-KF-32-400-8P	spindle axis	
8061481	ELGC-BS-KF-32-500-8P	spindle axis	
8061482	ELGC-BS-KF-32-600-8P	spindle axis	
8061483	ELGC-BS-KF-32-800-8P	spindle axis	
8061484	ELGC-BS-KF-45-100-10P	spindle axis	
8061485	ELGC-BS-KF-45-200-10P	spindle axis	
8061486	ELGC-BS-KF-45-300-10P	spindle axis	
8061487	ELGC-BS-KF-45-400-10P	spindle axis	
8061488	ELGC-BS-KF-45-500-10P	spindle axis	
8061489	ELGC-BS-KF-45-600-10P	spindle axis	
8061490	ELGC-BS-KF-45-800-10P	spindle axis	
8061492	ELGC-BS-KF-60-200-12P	spindle axis	
8061493	ELGC-BS-KF-60-300-12P	spindle axis	
8061494	ELGC-BS-KF-60-400-12P	spindle axis	
8061495	ELGC-BS-KF-60-500-12P	spindle axis	
8061496	ELGC-BS-KF-60-600-12P	spindle axis	
8061497	ELGC-BS-KF-60-800-12P	spindle axis	

3.2.3. EGC-BS Spindle axes

Special strokes and strokes > 1000mm require a special release.

Name	Order code	Remarks	Picture	Links
Spindle axes EGC-BS	EGC-...	Size 80, 120, 185 Stroke length 100 ... 1000 mm Force 300 ... 3000 N.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
556808 (*)	EGC-80-100-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-200-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-300-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-400-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-500-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-600-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-700-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-800-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-900-BS-20P-KF-0H-ML-GK-C	spindle axis	
556808 (*)	EGC-80-1000-BS-20P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-100-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-200-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-300-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-400-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-500-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-600-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-700-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-800-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-900-BS-25P-KF-0H-ML-GK-C	spindle axis	
556809 (*)	EGC-120-1000-BS-25P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-100-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-200-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-300-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-400-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-500-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-600-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-700-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-800-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-900-BS-40P-KF-0H-ML-GK-C	spindle axis	
556811 (*)	EGC-185-1000-BS-40P-KF-0H-ML-GK-C	spindle axis	

(*) It is a configurable product.

3.2.4. ELGA-TB-KF Electric axes

Special strokes and strokes > 1000mm require a special release.

Name	Order code	Remarks	Picture	Links
Toothed belt axes ELGA-TB-KF	ELGA-...	Size 70, 80, 120 Stroke length 100 - 1000 mm Force 350 ... 2000 N Integrated recirculating ball bearing guide		 Catalogue Documentation 电子目录 文档 카타로그 PDF 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8024914 (*)	ELGA-TB-KF-70-100-0H	toothed belt axis	
8024914 (*)	ELGA-TB-KF-70-200-0H	toothed belt axis	
8041851	ELGA-TB-KF-70-300-0H	toothed belt axis	
8041852	ELGA-TB-KF-70-400-0H	toothed belt axis	
8041853	ELGA-TB-KF-70-500-0H	toothed belt axis	
8041854	ELGA-TB-KF-70-600-0H	toothed belt axis	
8024914 (*)	ELGA-TB-KF-70-700-0H	toothed belt axis	
8041855	ELGA-TB-KF-70-800-0H	toothed belt axis	
8024914 (*)	ELGA-TB-KF-70-900-0H	toothed belt axis	
8041856	ELGA-TB-KF-70-1000-0H	toothed belt axis	
8024915 (*)	ELGA-TB-KF-80-100-0H	toothed belt axis	
8024915 (*)	ELGA-TB-KF-80-200-0H	toothed belt axis	
8024915 (*)	ELGA-TB-KF-80-300-0H	toothed belt axis	
8041858	ELGA-TB-KF-80-400-0H	toothed belt axis	
8041859	ELGA-TB-KF-80-500-0H	toothed belt axis	
8041860	ELGA-TB-KF-80-600-0H	toothed belt axis	
8024915 (*)	ELGA-TB-KF-80-700-0H	toothed belt axis	
8041861	ELGA-TB-KF-80-800-0H	toothed belt axis	
8024915 (*)	ELGA-TB-KF-80-900-0H	toothed belt axis	
8041862	ELGA-TB-KF-80-1000-0H	toothed belt axis	
8024916 (*)	ELGA-TB-KF-120-100-0H	toothed belt axis	
8024916 (*)	ELGA-TB-KF-120-200-0H	toothed belt axis	
8024916 (*)	ELGA-TB-KF-120-300-0H	toothed belt axis	
8041864	ELGA-TB-KF-120-400-0H	toothed belt axis	
8041865	ELGA-TB-KF-120-500-0H	toothed belt axis	
8041866	ELGA-TB-KF-120-600-0H	toothed belt axis	
8024916 (*)	ELGA-TB-KF-120-700-0H	toothed belt axis	
8041867	ELGA-TB-KF-120-800-0H	toothed belt axis	
8024916 (*)	ELGA-TB-KF-120-900-0H	toothed belt axis	
8041868	ELGA-TB-KF-120-1000-0H	toothed belt axis	

(*) It is a configurable product.

3.2.5. ESBF Electric cylinders and slides

Special strokes and strokes > 1000mm require a special release.

Name	Order code	Remarks	Picture	Links
Electric cylinder ESBF	ESBF-...	Size 32, 40, 50, 63, 80, 100 Stroke length 100 ... 600 mm Force: 600 ... 17000 N Motor can be mounted using axial or parallel kit Linear drive with ball screw in Clean Design		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8022565	ESBF-BS-32-100-10P	electric cylinder	 Catalogue  Documentation  CAD
8022562	ESBF-BS-32-100-5P	electric cylinder	 Catalogue  Documentation  CAD
8022566	ESBF-BS-32-200-10P	electric cylinder	 Catalogue  Documentation  CAD
2215384	ESBF-BS-32-200-5P	electric cylinder	 Catalogue  Documentation  CAD
8022567	ESBF-BS-32-300-10P	electric cylinder	 Catalogue  Documentation  CAD
8022563	ESBF-BS-32-300-5P	electric cylinder	 Catalogue  Documentation  CAD
8022568	ESBF-BS-32-400-10P	electric cylinder	 Catalogue  Documentation  CAD
8022564	ESBF-BS-32-400-5P	electric cylinder	 Catalogue  Documentation  CAD
8022585 (*)	ESBF-BS-40-600-10P	electric cylinder	 Catalogue  Documentation  CAD
8022585 (*)	ESBF-BS-40-600-5P	electric cylinder	 Catalogue  Documentation  CAD
8022577	ESBF-BS-40-100-10P	electric cylinder	 Catalogue  Documentation  CAD
8022581	ESBF-BS-40-100-16P	electric cylinder	 Catalogue  Documentation  CAD
8022574	ESBF-BS-40-100-5P	electric cylinder	 Catalogue  Documentation  CAD
8022578	ESBF-BS-40-200-10P	electric cylinder	 Catalogue  Documentation  CAD
8022582	ESBF-BS-40-200-16P	electric cylinder	 Catalogue  Documentation  CAD
2215385	ESBF-BS-40-200-5P	electric cylinder	 Catalogue  Documentation  CAD
8022579	ESBF-BS-40-300-10P	electric cylinder	 Catalogue  Documentation  CAD
8022583	ESBF-BS-40-300-16P	electric cylinder	 Catalogue  Documentation  CAD
8022575	ESBF-BS-40-300-5P	electric cylinder	 Catalogue  Documentation  CAD
8022580	ESBF-BS-40-400-10P	electric cylinder	 Catalogue  Documentation  CAD
8022584	ESBF-BS-40-400-16P	electric cylinder	 Catalogue  Documentation  CAD
8022576	ESBF-BS-40-400-5P	electric cylinder	 Catalogue  Documentation  CAD
8022593	ESBF-BS-50-100-10P	electric cylinder	 Catalogue  Documentation  CAD
8022597	ESBF-BS-50-100-20P	electric cylinder	 Catalogue  Documentation  CAD
8022590	ESBF-BS-50-100-5P	electric cylinder	 Catalogue  Documentation  CAD
8022594	ESBF-BS-50-200-10P	electric cylinder	 Catalogue  Documentation  CAD
8022598	ESBF-BS-50-200-20P	electric cylinder	 Catalogue  Documentation  CAD
2215386	ESBF-BS-50-200-5P	electric cylinder	 Catalogue  Documentation  CAD
8022595	ESBF-BS-50-300-10P	electric cylinder	 Catalogue  Documentation  CAD
8022599	ESBF-BS-50-300-20P	electric cylinder	 Catalogue  Documentation  CAD
8022591	ESBF-BS-50-300-5P	electric cylinder	 Catalogue  Documentation  CAD
8022596	ESBF-BS-50-400-10P	electric cylinder	 Catalogue  Documentation  CAD
8022600	ESBF-BS-50-400-20P	electric cylinder	 Catalogue  Documentation  CAD
8022592	ESBF-BS-50-400-5P	electric cylinder	 Catalogue  Documentation  CAD
574096	ESBF-BS-63-100-10P	electric cylinder	 Catalogue  Documentation  CAD
574100	ESBF-BS-63-100-25P	electric cylinder	 Catalogue  Documentation  CAD
574093	ESBF-BS-63-100-5P	electric cylinder	 Catalogue  Documentation  CAD
574097	ESBF-BS-63-200-10P	electric cylinder	 Catalogue  Documentation  CAD
574101	ESBF-BS-63-200-25P	electric cylinder	 Catalogue  Documentation  CAD
1347390	ESBF-BS-63-200-5P	electric cylinder	 Catalogue  Documentation  CAD

Part no.	Order code	Name	Links
574098	ESBF-BS-63-300-10P	electric cylinder	
574102	ESBF-BS-63-300-25P	electric cylinder	
574094	ESBF-BS-63-300-5P	electric cylinder	
574099	ESBF-BS-63-400-10P	electric cylinder	
574103	ESBF-BS-63-400-25P	electric cylinder	
574095	ESBF-BS-63-400-5P	electric cylinder	
574107	ESBF-BS-80-100-15P	electric cylinder	
574111	ESBF-BS-80-100-32P	electric cylinder	
574104	ESBF-BS-80-100-5P	electric cylinder	
574108	ESBF-BS-80-200-15P	electric cylinder	
574112	ESBF-BS-80-200-32P	electric cylinder	
1347391	ESBF-BS-80-200-5P	electric cylinder	
574109	ESBF-BS-80-300-15P	electric cylinder	
574113	ESBF-BS-80-300-32P	electric cylinder	
574105	ESBF-BS-80-300-5P	electric cylinder	
574110	ESBF-BS-80-400-15P	electric cylinder	
574114	ESBF-BS-80-400-32P	electric cylinder	
574106	ESBF-BS-80-400-5P	electric cylinder	
574118	ESBF-BS-100-100-20P	electric cylinder	
574122	ESBF-BS-100-100-40P	electric cylinder	
574115	ESBF-BS-100-100-5P	electric cylinder	
574119	ESBF-BS-100-200-20P	electric cylinder	
574123	ESBF-BS-100-200-40P	electric cylinder	
1347393	ESBF-BS-100-200-5P	electric cylinder	
574120	ESBF-BS-100-300-20P	electric cylinder	
574124	ESBF-BS-100-300-40P	electric cylinder	
574116	ESBF-BS-100-300-5P	electric cylinder	
574121	ESBF-BS-100-400-20P	electric cylinder	
574125	ESBF-BS-100-400-40P	electric cylinder	
574117	ESBF-BS-100-400-5P	electric cylinder	

(*) It is a configurable product.

3.2.6. EGSC Electric cylinders and slides

Name	Order code	Remarks	Picture	Links
Mini-slides EGSC	EGSC-...	Size 25, 32, 45, 60 Stroke length 25 ... 200 mm Integrated recirculating ball bearing guide		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8048310	EGSC-BS-KF-25-25-6P	mini slide	
8048311	EGSC-BS-KF-25-50-6P	mini slide	
8061280	EGSC-BS-KF-25-75-6P	mini slide	
8048306	EGSC-BS-KF-32-25-8P	mini slide	
8048307	EGSC-BS-KF-32-50-8P	mini slide	
8048308	EGSC-BS-KF-32-75-8P	mini slide	
4356032	EGSC-BS-KF-32-100-8P	mini slide	
8048300	EGSC-BS-KF-45-25-10P	mini slide	

Part no.	Order code	Name	Links
8048301	EGSC-BS-KF-45-50-10P	mini slide	
8048302	EGSC-BS-KF-45-75-10P	mini slide	
4022926	EGSC-BS-KF-45-100-10P	mini slide	
8048303	EGSC-BS-KF-45-125-10P	mini slide	
8048304	EGSC-BS-KF-45-150-10P	mini slide	
8048362	EGSC-BS-KF-60-50-12P	mini slide	
8048363	EGSC-BS-KF-60-75-12P	mini slide	
4356469	EGSC-BS-KF-60-100-12P	mini slide	
8048364	EGSC-BS-KF-60-125-12P	mini slide	
8048365	EGSC-BS-KF-60-150-12P	mini slide	
8048366	EGSC-BS-KF-60-200-12P	mini slide	

3.2.7. EMMS-ST Stepper motors

Name	Order code	Remarks	Picture	Links
EMMS-ST stepper motor	EMMS-...	Size 28, 42, 57, 87 Holding torque 0.09 ... 8.6 Nm Voltage 48 V DC Nominal current 1.4 ... 9.5 A Suitable motor cable Suitable motor flange.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1430663	EMMS-ST-28-L-SE	stepper motor	
1451382	EMMS-ST-28-L-SEB	stepper motor	
1370473	EMMS-ST-42-S-SEB-G2	stepper motor	
1370471	EMMS-ST-42-S-SE-G2	stepper motor	
1370481	EMMS-ST-57-M-SEB-G2	stepper motor	
1370479	EMMS-ST-57-M-SE-G2	stepper motor	
1370477	EMMS-ST-57-S-SEB-G2	stepper motor	
1370475	EMMS-ST-57-S-SE-G2	stepper motor	
1370494	EMMS-ST-87-L-SEB-G2	stepper motor	
1370491	EMMS-ST-87-L-SE-G2	stepper motor	
1370489	EMMS-ST-87-M-SEB-G2	stepper motor	
1370487	EMMS-ST-87-M-SE-G2	stepper motor	
1370485	EMMS-ST-87-S-SEB-G2	stepper motor	
1370483	EMMS-ST-87-S-SE-G2	stepper motor	

3.2.8. EMGA Gear units

Name	Order code	Remarks	Picture	Links
Gear units EMGA	EMGA-...	Low backlash planetary gear unit for electromechanical drives Gear ratio $i = 3, 5, 8, 12, 20$, in stock Life-time lubrication Degree of protection: IP54		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8085342	EMGA-40-A-G3-40P	gear unit	
8085343	EMGA-40-A-G5-40P	gear unit	
2297684	EMGA-40-P-G3-EAS-40	gear unit	
549428	EMGA-40-P-G3-SST-42	gear unit	
2297685	EMGA-40-P-G5-EAS-40	gear unit	
549429	EMGA-40-P-G5-SST-42	gear unit	
8085344	EMGA-60-A-G3-60P	gear unit	
8085345	EMGA-60-A-G5-60P	gear unit	
2297686	EMGA-60-P-G3-EAS-60	gear unit	
552188	EMGA-60-P-G3-SAS-55	gear unit	
552190	EMGA-60-P-G3-SAS-70	gear unit	
549430	EMGA-60-P-G3-SST-57	gear unit	
2297687	EMGA-60-P-G5-EAS-60	gear unit	
552189	EMGA-60-P-G5-SAS-55	gear unit	
552191	EMGA-60-P-G5-SAS-70	gear unit	
549431	EMGA-60-P-G5-SST-57	gear unit	
8085348	EMGA-80-A-G3-100A	gear unit	
8085346	EMGA-80-A-G3-80P	gear unit	
8085349	EMGA-80-A-G5-100A	gear unit	
8085347	EMGA-80-A-G5-80P	gear unit	
2297690	EMGA-80-P-G3-EAS-80	gear unit	
552194	EMGA-80-P-G3-SAS-100	gear unit	
549432	EMGA-80-P-G3-SST-87	gear unit	
2297691	EMGA-80-P-G5-EAS-80	gear unit	
552195	EMGA-80-P-G5-SAS-100	gear unit	
549433	EMGA-80-P-G5-SST-87	gear unit	
552196	EMGA-120-P-G3-SAS-100	gear unit	
552198	EMGA-120-P-G3-SAS-140	gear unit	
552197	EMGA-120-P-G5-SAS-100	gear unit	
552199	EMGA-120-P-G5-SAS-140	gear unit	
552200	EMGA-160-P-G3-SAS-140	gear unit	
552201	EMGA-160-P-G5-SAS-140	gear unit	

3.2.9. CMMT-ST Controller for stepper motors

Name	Order code	Remarks	Picture	Links
Servo drive CMMT-ST	CMMT-...	Voltage 24, 48 V DC Nominal current 8 A (peak 10A) Power up to 300W		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8084005	CMMT-ST-C8-1C-EC-S0	servo drive	
8084004	CMMT-ST-C8-1C-PN-S0	servo drive	

Note:

The parameter set must be stored in the controller in accordance with VW specifications in order to enable commissioning without Festo Automation Suite in the event of replacement.

Support and details can be found in chapter 4.1.2.

3.3 Vacuum technology

3.3.1. OVEL Vacuum generators

Name	Order code	Remarks	Picture	Links
Vacuum generators OVEL	OVEL-...	Nominal size 0.45 ... 0.95 mm Connection - push-in connector QS3, QS4, QS6 Vacuum solenoid valve ON/OFF Optional with ejector pulse Integrated vacuum sensor		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8069571	OVEL-7-H-15-PQ-VQ4-UA-C-A-B2PNLK-H3	vacuum generator	 PDF CAD
8069572	OVEL-10-H-15-PQ-VQ6-UA-C-A-B2PNLK-H3	vacuum generator	 PDF CAD

3.3.2. OVEM Vacuum generators

Name	Order code	Remarks	Picture	Links
OVEM vacuum generator, metric	OVEM-...	Nominal diameter 0.45 ... 2.0 mm Port -Plug connector QS6, QS8 Solenoid valve vacuum IN/OUT Solenoid valve for ejector pulse Integrated vacuum switch.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
539074 (*)	OVEM-07-H-B-GN-OE-N-2P	vacuum generator	 PDF CAD
539074 (*)	OVEM-10-H-B-GN-OE-N-2P	vacuum generator	 PDF CAD
539074 (*)	OVEM-14-H-B-GN-OE-N-2P	vacuum generator	 PDF CAD
539074 (*)	OVEM-20-H-B-GN-OE-N-2P	vacuum generator	 PDF CAD

(*) It is a configurable product.

3.3.3. VN Vacuum generators

Name	Order code	Remarks	Picture	Links
Vacuum generators VN, pneumatic	VN-...	Nominal size 0.45 to 3 mm Connection -Plug connector QS4, QS6, QS8, QS10, QS12 -Thread M5, G1/8, G1/4, G3/8 -Push-in sleeve 4.6 mm Standard -Vacuum port 90° to supply port Inline -Vacuum port in line with supply port Ejector pulse valve, pneumatic.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
193498	VN-05-H-T3-PI4-VI4-R14	vacuum generator	
193499	VN-07-H-T3-PI4-VI4-R14	vacuum generator	
193500	VN-10-H-T3-PI4-VI4-R14	vacuum generator	
193502	VN-14-H-T4-PI4-VI5-R15	vacuum generator	

3.4 Valves

3.4.1. VUVG Universal directional control valves

Name	Order code	Remarks	Picture	Links
Valves VUVG, for individual connection	VUVG-...	Connection M7, G1/8, G1/4 Push-in connector 3, 4, 6, 8, 10 mm Flow rate 90 ... 1380 l/min Pressure range -0.9 ... 10 bar Temperature range -5 ... +60°C Voltage 5, 12 24 V DC In-line valves, sub-base valves Solenoid actuated, piloted Pneumatic and mechanical spring return		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
564212 (*)	VUVG-L10-M52-MH-M7-1R8L	solenoid valve	
564212 (*)	VUVG-L10-B52-H-M7-1R8L	solenoid valve	
564212 (*)	VUVG-L10-P53E-H-M7-1R8L	solenoid valve	
564212 (*)	VUVG-L10-P53U-H-M7-1R8L	solenoid valve	
564212 (*)	VUVG-L10-T32C-MH-M7-1R8L	solenoid valve	
564212 (*)	VUVG-L14-M52-MH-G18-1R8L	solenoid valve	
564212 (*)	VUVG-L14-B52-H-G18-1R8L	solenoid valve	
564212 (*)	VUVG-L14-P53E-H-G18-1R8L	solenoid valve	
564212 (*)	VUVG-L14-P53U-H-G18-1R8L	solenoid valve	
564212 (*)	VUVG-L14-T32C-MH-G18-1R8L	solenoid valve	
564212 (*)	VUVG-L18-M52-MH-G14-1R8L	solenoid valve	
564212 (*)	VUVG-L18-B52-H-G14-1R8L	solenoid valve	
564212 (*)	VUVG-L18-P53E-H-G14-1R8L	solenoid valve	
564212 (*)	VUVG-L18-P53U-H-G14-1R8L	solenoid valve	
564212 (*)	VUVG-L18-T32C-MH-G14-1R8L	solenoid valve	

(*) It is a configurable product.

3.4.2. VUVG, plug-in Universal directional control valves

Name	Order code	Remarks	Picture	Links
Valves VUVG, plug-in	VUVG-...	Port M5, M7, G1/8, G1/4 Push-in connector 3, 4, 6, 8 mm Flow rate 130 ... 1200 l/min Voltage 24 V DC Semi in-line valves, sub-base valves Solenoid actuated, piloted Pneumatic and mechanical spring return		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8150398	VUVG-B10-B52-ZT-F-1T1L-F1A	solenoid valve	
8150460	VUVG-B10-M52-MZT-F-1T1L-F1A	solenoid valve	
8141522	VUVG-B10-P53E-ZT-F-1T1L-F1A	solenoid valve	
8141523	VUVG-B10-P53U-ZT-F-1T1L-F1A	solenoid valve	
8150401	VUVG-B14-B52-ZT-F-1T1L-F1A	solenoid valve	
8150461	VUVG-B14-M52-MZT-F-1T1L-F1A	solenoid valve	
8141533	VUVG-B14-P53E-ZT-F-1T1L-F1A	solenoid valve	
8141534	VUVG-B14-P53U-ZT-F-1T1L-F1A	solenoid valve	

3.4.3. VUWG Universal directional control valves

Name	Order code	Remarks	Picture	Links
Valves VUWG	VUWG...	Connection M7, G1/8, G1/4 Flow 90 ... 1380 l/min - Pneumatically activated, piloted - mechanical spring return		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

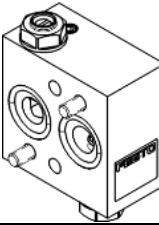
Part no.	Order code	Name	Links
573825	VUWG-L10-B52-M7	pneumatic valve	
574258	VUWG-L10-M52-M-M7	pneumatic valve	
573827	VUWG-L10-P53E-M7	pneumatic valve	
573828	VUWG-L10-P53U-M7	pneumatic valve	
574255	VUWG-L10-T32C-M-M7	pneumatic valve	
573833	VUWG-L14-B52-G18	pneumatic valve	
574262	VUWG-L14-M52-M-G18	pneumatic valve	
573835	VUWG-L14-P53E-G18	pneumatic valve	
573836	VUWG-L14-P53U-G18	pneumatic valve	
574259	VUWG-L14-T32C-M-G18	pneumatic valve	
574271	VUWG-L18-B52-G14	pneumatic valve	
574270	VUWG-L18-M52-M-G14	pneumatic valve	
574273	VUWG-L18-P53E-G14	pneumatic valve	
574274	VUWG-L18-P53U-G14	pneumatic valve	
574266	VUWG-L18-T32C-M-G14	pneumatic valve	

3.4.4. VSNC Universal directional control valves

Name	Order code	Remarks	Picture	Links
Solenoid valves VSNC		Connection: G $\frac{1}{4}$, NPT $\frac{1}{4}$ Flow rate: 900 ... 1000 l/min Voltage: 12, 24, 48 V DC, 24, 48, 120, 230 V AC NAMUR port pattern to VDE/VDI 3845 Solenoid-actuated, piloted Mechanical spring return Diverse Ex solenoid systems, IEC Ex, FM EX Convertible from 5/2-way function to 3/2-way function		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Plug socket	MSSD-C-24-LED-M12-SA	Is accessory of solenoid coil Connection crosssection: 0,75... 1,5mm ² .		
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Part no.	Order code	Name	Links
8026033	VSNC	solenoid valve	

Name	Order code	Remarks	Picture	Links
Flow control plate	VABF-1/8-CS-1637036-A	Connection G1/8		Drawing

Part no.	Order code	Name	Links
23297733	VABF-1/8-CS-1637036-A	Flow control plate	Drawing

3.4.5. HGL Non-return valves and quick exhaust valves

Name	Order code	Remarks	Picture	Links
Piloted check valves HGL	HGL....	Port M5, G1/8, G1/4, G3/8, G1/2 Flow rate 130 ... 1600 l/min Shut-off valve - Pneumatic piloted non-return valve Only in connection with manual override HAB!		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
530033	HGL-1/2-B	Piloted check valve	
530031	HGL-1/4-B	Piloted check valve	
530030	HGL-1/8-B	Piloted check valve	
530032	HGL-3/8-B	Piloted check valve	

3.4.6. HAB Manuel override

Name	Order code	Remarks	Picture	Links
Manual override HAB	HAB....	Hand lever Manual override		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
184588	HAB-1/2	Manual override for HGL	PDF Catalogue PDF Documentation
184586	HAB-1/4	Manual override for HGL	PDF Catalogue PDF Documentation
184585	HAB-1/8	Manual override for HGL	PDF Catalogue PDF Documentation
184587	HAB-3/8	Manual override for HGL	PDF Catalogue PDF Documentation

3.4.7. VBNF Non-return valves and quick exhaust valves

Name	Order code	Remarks	Picture	Links
Non-return valves VBNF, piloted	VBNF-...	Port G1/8, G1/4 Push-in connector 6, 8 mm Flow rate 260 l/min Low height Can be rotated horizontally by 360° when assembled		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
1927027	VBNF-LBA-G14-Q8	non-return valve	PDF Catalogue PDF Documentation
8001460	VBNF-LBA-G18-Q6	non-return valve	PDF Catalogue PDF Documentation

3.4.8. H Non-return valves and quick exhaust valves

Name	Order code	Remarks	Picture	Links
Non-return valves H	H-...	Connection: M5, G1/8, G1/4, G3/8, G1/2, G3/4 Push-in connector: 2, 4, 6, 8, 10, 12 mm Flow rate: 115 ... 2230 l/min Shut-off valve Screw-in		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
3324	H-1/8-A/I	non-return valve	PDF Catalogue PDF Documentation
11689	H-1/4-B	non-return valve	PDF Catalogue PDF Documentation
11691	H-1/2-B	non-return valve	PDF Catalogue PDF Documentation
11692	H-3/4-B	non-return valve	PDF Catalogue PDF Documentation
11690	H-3/8-B	non-return valve	PDF Catalogue PDF Documentation

3.4.9. SE / SEU Non-return valves and quick exhaust valves

Name	Order code	Remarks	Picture	Links
Quick exhaust valves SE, SEU	SE-... SEU-...	Connection G 1/8, G 1/4, G 3/8, G 1/2. G 3/4 Flow 300 ... 6 480 l/min Shut-off valve.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
9688	SE-1/2-B	quick exhaust valve	
9686	SE-1/4-B	quick exhaust valve	
9685	SE-1/8-B	quick exhaust valve	
2280	SE-3/4	quick exhaust valve	
9687	SE-3/8-B	quick exhaust valve	
6822	SEU-1/2	quick exhaust valve	
6753	SEU-1/4	quick exhaust valve	
4616	SEU-1/8	quick exhaust valve	
6755	SEU-3/8	quick exhaust valve	

3.4.10. GRxA / GRxZ One-way flow control valves

Name	Order code	Remarks	Picture	Links
GRxA, GRxZ	GRLA-... GRLSA-... GRLZ-...	Connection M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4, also available with NPT thread Push-in connection 3, 4, 6, 8, 10, 12 mm Flow rate 0 ... 4320 l/min. Non-return/flow control valve.		PDF Catalogue PDF Documentation PDF 电子目录 PDF 文档 PDF 카타로그 PDF 가탈로그 및 상세 정보

Part no.	Order code	Name	Links
151179	GRLA-1/2-B	one-way flow control valve	
151172	GRLA-1/4-B	one-way flow control valve	
151165	GRLA-1/8-B	one-way flow control valve	
151180	GRLA-3/4-B	one-way flow control valve	
151178	GRLA-3/8-B	one-way flow control valve	
151160	GRLA-M5-B	one-way flow control valve	
539717	GRLA-M5-B-SA-218543	One-way flow control valve, tamper-proof	
539661	GRLA-1/8-B-SA-218537	One-way flow control valve, tamper-proof	
539662	GRLA-1/4-B-SA-218536	One-way flow control valve, tamper-proof	
539715	GRLA-3/8-B-SA-218541	One-way flow control valve, tamper-proof	
539716	GRLA-1/2-B-SA-218540	One-way flow control valve, tamper-proof	
539714	GRLA-3/4-B-SA-218542	One-way flow control valve, tamper-proof	
151195	GRLZ-1/4-B	one-way flow control valve	
151188	GRLZ-1/8-B	one-way flow control valve	

3.4.11. GR / GRA One-way flow control valves

Name	Order code	Remarks	Picture	Links
In-line installation GR	GR-... GRA-...	Connection M3, M5, G1/8, G1/4, G3/8, G1/2, G3/4 Push-in connector 3, 4, 6, 8 mm Flow 0 ... 3 300 l/min Non-return and flow control valve.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
3720	GR-1/2	one-way flow control valve	 PDF CAD
151215	GR-1/8-B	one-way flow control valve	 PDF CAD
2103	GR-3/4	one-way flow control valve	 PDF CAD
6308	GR-3/8-B	one-way flow control valve	 PDF CAD
6509	GRA-1/4-B	one-way flow control valve	 PDF CAD
151213	GR-M5-B	one-way flow control valve	 PDF CAD

3.4.12. GRE Flow control valves

Name	Order code	Remarks	Picture	Links
Exhaust air flow control valves GRE	GRE-...	Connector G 1/8, G 1/4, G 3/8, G 1/2, G 3/4 Flow 0 ... 8 000 l/min Flow control valve.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
10351	GRE-1/8	exhaust air flow control valve	 PDF CAD

3.4.13. VEAB Proportional valves

Name	Order code	Remarks	Picture	Links
Proportional pressure regulators VEAB	VEAB-...	QS4 connection or connecting plate Flow rate 20 l/min 3-way proportional pressure regulators, directly actuated Pressure ranges -1 ... 0 bar, 0 ... 0.2 bar, 0 ... 1 bar, 0 ... 2 bar, 0 ... 6 bar		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8067678	VEAB-L-26-D13-Q4-A4-1R1	proportional pressure regulator	 PDF CAD
8046306	VEAB-L-26-D2-Q4-A4-1R1	proportional pressure regulator	 PDF CAD
8046300	VEAB-L-26-D9-Q4-A4-1R1	proportional pressure regulator	 PDF CAD

3.4.14. VPPE Proportional valves

Name	Order code	Remarks	Picture	Links
Proportional-pressure regulators VPPE	VPPE-...	Connection G1/8 Flow rate 850 l/min. 3-way proportional pressure regulators Setpoint module available as accessory		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8156423	VPPE-3-1-1/8-6-420-E1-F1A	proportional pressure regulator	
8156424	VPPE-3-1-1/8-10-420-E1-F1A	proportional pressure regulator	

3.4.15. OS (OR) Logic elements OR building blocks

Name	Order code	Remarks	Picture	Links
OR gate OS	OS...	Flow rate 100 ... 5000 l/min G1/8, G1/4 OR function		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
6682	OS-1/4-B	OR gate	 PDF CAD
6681	OS-1/8-B	OR gate	 PDF CAD

3.4.16. ZK (AND) Logic elements AND building blocks

Name	Order code	Remarks	Picture	Links
AND gate ZK	ZK-1/8-B	Flow rate 550 l/min G1/8 AND function		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
6680	ZK-1/8-B	AND gate	 PDF CAD

3.5 Valve terminals

3.5.1. VTUG Universal valve terminals

For application where less than 6 valves are required, single valves/valve battery with socket connection and M8 connector can be used

Name	Order code	Remarks	Picture	Links
Manifold assembly VTUG, with individual electrical connection	VTUG-...	Flow rate: 130 ... 1380 l/min Width 10, 14 mm Port M7, G 1/8 Push-in connector 3, 4, 6, 8 mm Electrical individual connection Voltage 5, 12, 24 V DC Pressure -0.9 ... 10 bar Degree of protection IP40/IP65 Semi in-line and sub-base valves Metal terminal strip		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
572230 (*)	VTUG-S	valve manifold assembly	 PDF CAD

(*) It is a configurable product.

Identcode :

VTUG -SR8-B1HZ - - - S- -F1A

[1] [2] [3] [4] [5]

[1]	Size	10 (Size 10) 14 (Size 14) 18 (Size 18)
[2]	Pressure supply connection	G18 (Size 10) G14 (Size 14) G38 (Size 18)
[3]	Exhaust port	DQ (Push-in fitting) DT (Thread) UC (Silencer)
[4]	Valve connection	M7 (Size 10) G18 (Size 14) G14 (Size 18)
[5]	Valve Position function	A [5/2-way valve, single solenoid, mechanical spring) J (5/2-way valve, double solenoid) B (5/3-way valve, mid-position pressurised) E (5/3-way valve, mid-position exhausted) VK (2x3/2-way valve, normally closed, mechanical spring) L Vacant position

3.5.2. VTUG-F1A Universal valve terminals

for applications with 6 or more valves.

The VTUG without Control Air Switch valve is available with 6, 8, 10 and 12 valve positions
 The VTUG with Control Air Switch valve is available with 6, 10 and 14 valve positions.

Name	Order code	Remarks	Picture	Links
Valve terminal VTUG-F1A with fieldbus connection	VTUG-...			 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보
Part no.	Order code			
8143237	VTUG-F1A	valve terminal		 PDF  CADCAM

Identcode :

VTUG -VRPT-B1HZ - - - S- -F1A
 - [1] [2] [3] [4] [5]

[1]	Size	10 (Size 10) 14 (Size 14)
[2]	Pressure supply connection	G18 (Size 10) G14 (Size 14)
[3]	Exhaust port	DQ (Push-in fitting) DT (Thread) UC (Silencer)
[4]	Valve connection	M7 (Size 10) G18 (Size 14)
[5]	Valve Position function	A [5/2-way valve, single solenoid, mechanical spring) J (5/2-way valve, double solenoid) B (5/3-way valve, mid-position pressurised) E (5/3-way valve, mid-position exhausted) VK (2x3/2-way valve, normally closed, mechanical spring) L Vacant position S Auxiliary pneumatic supply ZH Control air switching valve

3.5.3. CTEU Electrical peripherals

Name	Order code	Remarks	Picture	Links
Fieldbus modules CTEU	CTEU-...	Fieldbus module for valve module VTUG Bus protocols: - EtherCAT® - PROFINET		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
572556	CTEU-EC	bus node	
2201471	CTEU-PN	bus node	

3.6 Sensors

3.6.1. SMT-8M-A For T-slot

A query about the magnetic piston of the cylinder is not permitted. Exceptions must be justified technically or constructively and require the written consent of the client. Fixing the switches only with a reproducible position when changing is required.

Name	Order code	Remarks	Picture	Links
SMT-8M-A	SMT-...	Electronic PNP, NPN Configurable Electrical connection M8, M12, ATEX 3GD 5 ... 30 V DC		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
574337	SMT-8M-A-PS-24V-E-0,3-M12	proximity sensor	
574334	SMT-8M-A-PS-24V-E-0,3-M8D	proximity sensor	

3.6.2. SDBT Proximity switches resistant to welding spatter, weld resistant, oil resistant

Name	Order code	Remarks	Picture	Links
Proximity switch SDBT	SDBT-...	Voltage 10 ... 30 V DC Cable length 0.3 and 5 m Plug connection M12 Electrical Contactless PNP, NPN		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
2476855	SDBT-BSW-1L-PU-W-0.3-N-M12	proximity sensor	

3.6.3. SMBR Mounting components for sensors

Name	Order code	Remarks	Picture	Links
Mounting components for proximity switches and sensors	SMBR-... For round cylinder DSNU	Mounting kits for proximity sensors and sensors on various drives.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
175092	SMBR-8-10	mounting kit	 
175093	SMBR-8-12	mounting kit	 
175094	SMBR-8-16	mounting kit	 
175095	SMBR-8-20	mounting kit	 
175096	SMBR-8-25	mounting kit	 

3.6.4. SAMH Tamper-proof mounting of proximity switches

Name	Order code	Remarks	Picture	Links
Tamper-proof mounting components for proximity switches and sensors	SAMH-...	Mounting kits for proximity sensors and sensors on various drives.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part number	Type	Name	Links
575815	SAMH-S-N8-S-MK	mounting kit	 
575817	SAMH-S-N8-S-SC	cover	 

3.6.5. SMM Positioning elements

Name	Order code	Remarks	Picture	Links
Positioning elements	SMM-...	Comprehensive accessories for every application. - Mounting kits - Sensor holder - Clips - Positioning elements		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
547941	SMM-8	positioning component	

3.6.6. SPAU Pressure sensors

Name	Order code	Remarks	Picture	Links
Pressure sensors SPAU	SPAU-...	Pressure measuring range -1 to 16 bar Voltage 20 ...30 V DC Switching output 2x PNP or 2x NPN selectable Electrical output 0.1 ... 10 V, 1 ... 5 V, 4 ... 20 mA Pneumatic connection G1/8, R1/8, R1/4, NPT1/8, M5, M7, push-in connector 4 mm, 6 mm, 5/32" Pressure switch Vacuum switch		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8001200 (*)	SPAU-B11R-T-G18FD-L-PNLK-PNVBA-M12U	pressure sensor	  

(*) It is a configurable product.

3.7 Safety oriented pneumatics

3.7.1. Safety oriented valves

3.7.2. VOFA Application-specific directional control valves

Name	Order code	Remarks	Picture	Links
Control blocks VOFA	VOFA-...	Soft-start valve 5/2-way valve with switching position sensing, redundant Flow rate 1100 l/min Voltage: 24 V DC		 Catalogue0  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
574011	VOFA-L26-T32C-M-G14-1C1-APP	control block	  
569819	VOFA-L26-T52-M-G14-1C1-APP	control block	  

3.7.3. VL Stop valve

Name	Order code	Remarks	Picture	Links
Stop valve	VL			

Part no.	Order code	Name	Links
25025	VL-2-1/4-SA	Stop valve	Datasheet

3.7.4. Safe components for air treatment

3.7.5. MS6-SV soft-start/quick exhaust valve

Name	Type	Comment	Picture	Documentation
MS6-SV	MS6-...	<p>Size 6</p> <p>Connection G1/2, also available with NPT thread</p> <p>Pressure 3.5 ... 10 bar</p> <p>Flow rate 4300 l/min</p> <p>Voltage 24 V DC</p> <p>Actuation</p> <p>solenoid actuated</p> <p>Pressure gauge with bar, psi, MPa</p> <p>3/2-way valve Normally closed</p> <p>Silencer</p> <p>Flow direction</p> <ul style="list-style-type: none"> - from left to right - from right to left. 		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
548713 (*)	MS6-SV-1/2-D-10V24P-2M12-SO	soft-start/quick exhaust valve	  

(*) It is a configurable product.

3.8 Compressed air preparation

3.8.1. MSx-EE On-off valves, electrical operated

Name	Order code	Remarks	Picture	Links
On-off valve MS4-EE	MS4-EE-1/4-10V24P-S	Connection G1/8, G1/4, G3/8 Flow rate 1000 ... 2000 l/min.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보
On-off valve MS6-EE	MS6-EE-1/2-10V24P-S	Connection G1/4, G3/8, G1/2, G3/4 Flow rate 2600 ... 7000 l/min.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보
On-off valve MS12-EE	MS12-EE-G-V24P-S	Connection G1, G1 1/4, G1 1/2, G2 Flow rate 25000 ... 32000 l/min.		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
527709	MS4-EE-1/4-10V24P-S	On-off valve with silencer	
527682	MS6-EE-1/2-10V24P-S	On-off valve with silencer	
535032	MS12-EE-G-V24P-S	On-off valve with silencer	

3.8.2. MSx-EE On-off valves, manual operated

Name	Order code	Remarks	Picture	Links
On-off valve MS4-EM	MS4-EM1-1/4-S	Connection G1/8, G1/4, G3/8 Flow rate 1200 ... 2200 l/min.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
On-off valve MS6-EM	MS6-EM1-1/2-S	Connection G1/4, G3/8, G1/2, G3/4 Flow rate 3000 ... 8700 l/min.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
On-off valve MS9-EM	MS9-EM-G-S-VS	Connection G1/2, G3/4, G1, G1 1/4, G1 1/2 Flow rate 8000 ... 18000 l/min		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
On-off valve MS12-EM	MS12-EM-G-S	Connection G1, G1 1/4, G1 1/2, G2 Flow rate 25000 ... 32000 l/min.		Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
541259	MS4-EM1-1/4-S	On-off valve with silencer	
541268	MS6-EM1-1/2-S	On-off valve with silencer	
562952	MS9-EM-G-S-VS	On-off valve with silencer	
535031	MS12-EM-G-S	On-off valve with silencer	

3.8.3. MSx-EE- -EP On-off valves, pneumatic operated

Name	Order code	Remarks	Picture	Links
On-off valve MS...-EP-...	MS...-EP-...	Connection G1/4, G1/2, G1		

Part no.	Order code	Name	Links
8028520	MS4-EE-1/4-EP-CS	On-off valve	Datasheet
3075309	MS6-EE-1/2-EP-CS	On-off valve	Datasheet
2677260	MS9-EE-G-EP-S-VS-CS	On-off valve with silencer	Datasheet

3.8.4. MSx-DL Pressure build-up valve

Name	Order code	Remarks	Picture	Links
Pressure build-up valve MS4-DL	MS4-DL-1/4	Connection G1/4 Flow rate 1000 ... 2000 l/min.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Pressure build-up valve MS6-DL	MS6-...	Port G1/4, G3/8, G1/2, G3/4 Flow rate 2800 ... 6450 l/min		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Pressure build-up valve MS12-DL-G	MS12-DL-G	Connection G2 Flow rate 25000 ... 42000 l/min.		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
529531	MS4-DL-1/4	Pressure build-up valve	
529817	MS6-DL-1/2	Pressure build-up valve	
541497	MS12-DL-G	Pressure build-up valve	

3.8.5. MSx-SV Pressure build-up and venting valves

Name	Order code	Remarks	Picture	Links
Pressure build-up and venting valve MS6-SV	MS6-SV-1/2-C-10V24E-S	Size 6 Connection G1/2 Pressure 3,5 - 10 bar Flow rate 4300 l/min Voltage 24 V DC Electric operated 3/2-Directional control valve, Initial position closed Performance Level C, Category 1, 1-Canal by EN ISO 13849-1		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Pressure build-up and venting valve MS9-SV	MS9-SV-G-C-10V24P-S-VS	Size 9 Connection G1 Pressure 3,5 - 16 bar Flow rate 16000 l/min Voltage 24 V DC Electric operated 3/2-Directional control valve, Initial position closed Performance Level C, Category 1, 1-Canal by EN ISO 13849-1		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
609307	MS6-SV-1/2-C-10V24E-S	Pressure build-up and venting valve with silencer	
562176	MS9-SV-G-C-10V24P-S-VS	Pressure build-up and venting valve with silencer	

3.8.6. MSx-FRM Branching module

Name	Order code	Remarks	Picture	Links
Branching module MS....-FRM-...	MS....-FRM-... MS....-FRM-FRZ	Connection G1/4, G1/2, G1, G2 Flow rate 3200 ... 42000 l/min	 	 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
529555	MS4-FRM-1/4	Branching module	
529857	MS6-FRM-1/4	Branching module	
529853	MS6-FRM-1/2	Branching module	
564145	MS9-FRM-G-VS	Branching module	
541681	MS12-FRM-G	Branching module	
549336	MS4-FRM-FRZ	Branching module, slim	
549337	MS6-FRM-FRZ	Branching module, slim	

3.8.7. MSx-LFx Filters and filter control valves

Name	Order code	Remarks	Picture	Links
Filter-regulating valve MS...-LFR	MS...-LFR-...	Connection G1/4, G1/2, G1 and G2 Flow rate 850 ... 17000 l/min. Filtration 5µm and 40µm		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Fine- and Micro filter MS...-LFM	MS...-LFM-...	Connection G1/4, G1/2 Flow rate 380 ... 550 l/min Operating pressure 2 ... 12 bar Filtration 0,01 µm, 1 µm		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Activated carbon filter MS...-LFX	MS...-LFX-...	Connection G1/4, G1/2 Flow rate 700 l/min. Operating pressure 0 ... 20 bar Residual oil content <= 0,003 mg/m³		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보
Filter cartridges MS	MS4-... MS6-... MS9-...	Size 4, 6, 9 Grade of filtration - 40µm - 5µm - 1µm - 0.01µm - Activated carbon filter		 Catalogue Documentation 电子目录 文档 카타로그 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
526489 (*)	MS4-LFR-1/4-D7-E-R-M-A4-AS	Filter-regulating valve, 40 µm	
526490 (*)	MS6-LFR-1/2-D7-E-R-M-A4-AS	Filter-regulating valve, 40 µm	
562531 (*)	MS9-LFR-G-D7-E-U-M-A4-AS	Filter-regulating valve, 40 µm	
535022 (*)	MS12-LFR-G-D7-E-U-M-A4-LD-AS	Filter-regulating valve, 40 µm	
526489 (*)	MS4-LFR-1/4-D7-C-R-M-A4-AS	Filter-regulating valve, 5 µm	
526490 (*)	MS6-LFR-1/2-D7-C-R-M-A4-AS	Filter-regulating valve, 5 µm	
562531 (*)	MS9-LFR-G-D7-C-U-M-A4-AS	Filter-regulating valve, 5 µm	
535022 (*)	MS12-LFR-G-D7-C-U-M-A4-LD-AS	Filter-regulating valve, 5 µm	
529663	MS6-LFM-1/4-ARM	Micro filter, 0,01 µm	
529667	MS6-LFM-1/4-BRM	Fine filter, 1 µm	
529655	MS6-LFM-1/2-ARM	Micro filter, 0,01 µm	
529659	MS6-LFM-1/2-BRM	Fine filter, 1 µm	
529683	MS6-LFX-1/4-R	Activated carbon filter	
529679	MS6-LFX-1/2-R	Activated carbon filter	
534501	MS4-LFP-C	Filter cartridge, 5 µm	
534502	MS4-LFP-E	Filter cartridge, 40 µm	
532909	MS6-LFM-A	Micro filter cartridge	
532910	MS6-LFM-B	Micro filter cartridge	
534499	MS6-LFP-C	Filter cartridge, 5 µm	

Part no.	Order code	Name	Links
534500	MS6-LFP-E	Filter cartridge, 40 µm	  
532911	MS6-LFX	Activated carbon filter cartridge	  
570309	MS9-LFP-C	Filter cartridge, 5 µm	  
570310	MS9-LFP-E	Filter cartridge, 40 µm	  

(*) It is a configurable product.

3.8.8. MSx-LRx Pressure regulating valves

Name	Order code	Remarks	Picture	Links
Pressure regulating valve MS...-LR	MS...-LR...	Connection G1/4, G1/2, G1 und G2 Flow rate 1000 ... 26500 l/min		 OKI Catalogue  PDF Documentation  OKI 电子目录  OKI 文档  OKI 카타로그  OKI 카탈로그 및 상세 정보
Precision pressure regulating valve MS6-LRP	MS6-LRP-1/4-D4-A8-AS	Connection G1/4 Flow rate 1100 l/min Pressure control range 0,05 ... 2,5 bar		 OKI Catalogue  PDF Documentation  OKI 电子目录  OKI 文档  OKI 카타로그  OKI 카탈로그 및 상세 정보
Precision pressure regulating valve LRP	LRP....	Connection G1/4 Flow rate 800 ... 2300 l/min Pressure 0,05 ... 0,7 bar, 0,05 ... 2,5 bar, 0,05 ... 4 bar Max. pressure hysteresis 0,02 bar Without manometer LRP is also available in a version for "EU Explosion Protection Directive (ATEX)". The code is "EX4" in the Identcode. This must be approved by the general contractor		 OKI Catalogue  PDF Documentation  OKI 电子目录  OKI 文档  OKI 카타로그  OKI 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
527690 (*)	MS4-LR-1/4-D7-A4-AS	Pressure regulating valve	
527663 (*)	MS6-LR-1/2-D7-A4-AS	Pressure regulating valve	
562530 (*)	MS9-LR-1-D7-A4-AS	Pressure regulating valve	
535021 (*)	MS12-LR-G-D7-A4-LD-AS	Pressure regulating valve	
538028 (*)	MS6-LRP-1/4-D4-A8-AS	Precision pressure regulating valve	
159500	LRP-1/4-0,7	precision pressure regulator	
549918	LRP-1/4-0,7-EX4	precision pressure regulator	
162834	LRP-1/4-2,5	precision pressure regulator	
549919	LRP-1/4-2,5-EX4	precision pressure regulator	
159501	LRP-1/4-4	precision pressure regulator	
549920	LRP-1/4-4-EX4	precision pressure regulator	
194690	LRPS-1/4-0,7	precision pressure regulator	
194691	LRPS-1/4-2,5	precision pressure regulator	
194692	LRPS-1/4-4	precision pressure regulator	

(*) It is a configurable product.

3.8.9. MA- -RG Pressure measuring devices – Pressure gauge

Name	Order code	Remarks	Picture	Links
Pressure gauge MA	MA-....-RG	Connection G1/8, G1/4 Pressure 0...2,5 bar, 0 ... 10 bar, 0 ... 16 bar Indicating range bar DIN EN 837-1 Adjustable red green range		DKI Catalogue DKI Documentation DKI 电子目录 DKI 文档 DKI 카타로그 DKI 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
525725	MA-40-10-R1/8-E-RG	Pressure gauge	
525726	MA-40-16-R1/8-E-RG	Pressure gauge	
546963	MA-40-2,5-R1/8-E-RG	Pressure gauge	
525728	MA-50-10-R1/4-E-RG	Pressure gauge	
525729	MA-50-16-R1/4-E-RG	Pressure gauge	
525727	MA-50-2,5-R1/4-E-RG	Pressure gauge	
719963	Red disc diameter 40	Disc with adjustable red segment	
719962	Red disc diameter 50	Disc with adjustable red segment	

3.8.10. DPA Pressure amplifier

Name	Order code	Remarks	Picture	Links
Pressure booster DPA	DPA-...	Twin-piston Pressure booster Pneumatic actuator 1:2 Pneumatic Connection G1/4, G3/8, G1/2 Supply pressure 2 ... 10 bar Output pressure 4 ... 16 bar Flow rate 300 ... 3000 Nl/min Ambient temperature +5 ... +60°C.		DKI Catalogue DKI Documentation DKI 电子目录 DKI 文档 DKI 카타로그 DKI 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
549402	DPA-100-16-A	Pressure booster	3D PDF CRD
537274	DPA-40-16	Pressure booster	3D PDF CRD
549400	DPA-63-16-A	Pressure booster	3D PDF CRD

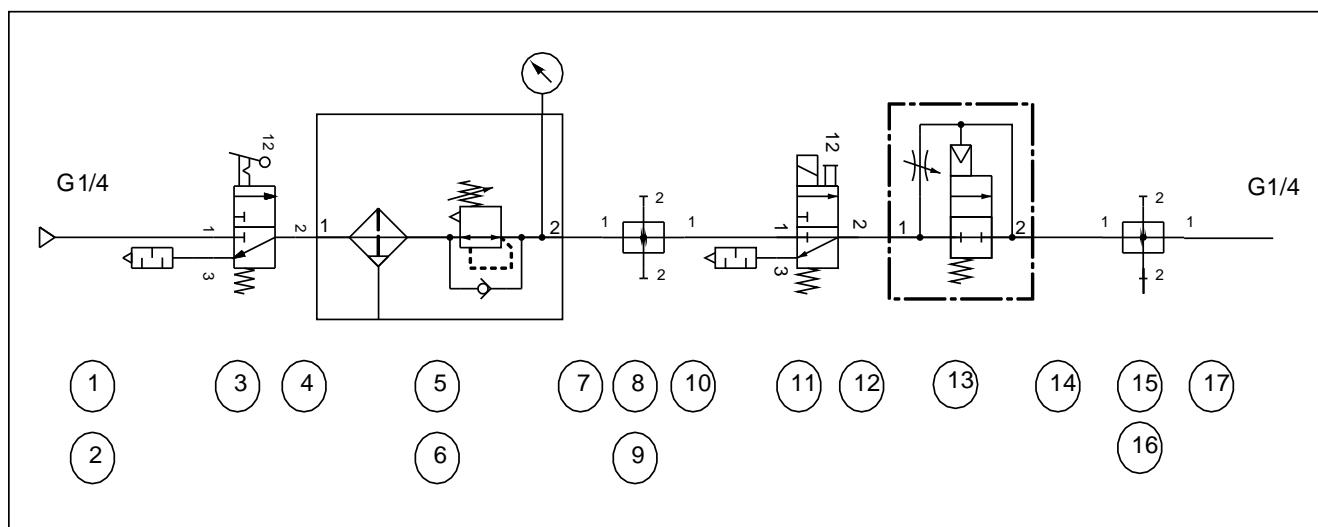
3.8.11. Standard service units according to VW Guideline

Service unit - Standard - G1/4"

Order number: 8043226

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/4"	MS4-AGB	526069
2	1	Module connector	MS4-MV	532798
3	1	On-off valve with silencer 6842 U-1/4-B	MS4-EM1-1/4-S	541259
4	1	Mounting bracket	MS4-WP	532184
5	1	Filter regulator 40µm	MS4-LFR-1/4-D7-E-R-M-A4-AS	526489
	1	Filter cartridge 40 µm (replacement)	MS4-LFP-E	534502
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS4-MV	532798
8	1	Branching module	MS4-FRM-1/4	529555
9	2	Blanking plug	B-1/4	3569
10	1	Module connector	MS4-MV	532798
11	1	On-off valve electrical with silencer 6842 U-1/4-B	MS4-EE-1/4-10V24P-S	527709
12	1	Module connector	MS4-MV	532798
13	1	Soft-start valve	MS4-DL-1/4	529531
14	1	Mounting bracket	MS4-WP	532184
15	1	Branching module	MS4-FRM-1/4	529555
16	2	Blanking plug	B-1/4	3569
17	1	Module connector	MS4-MV	532798

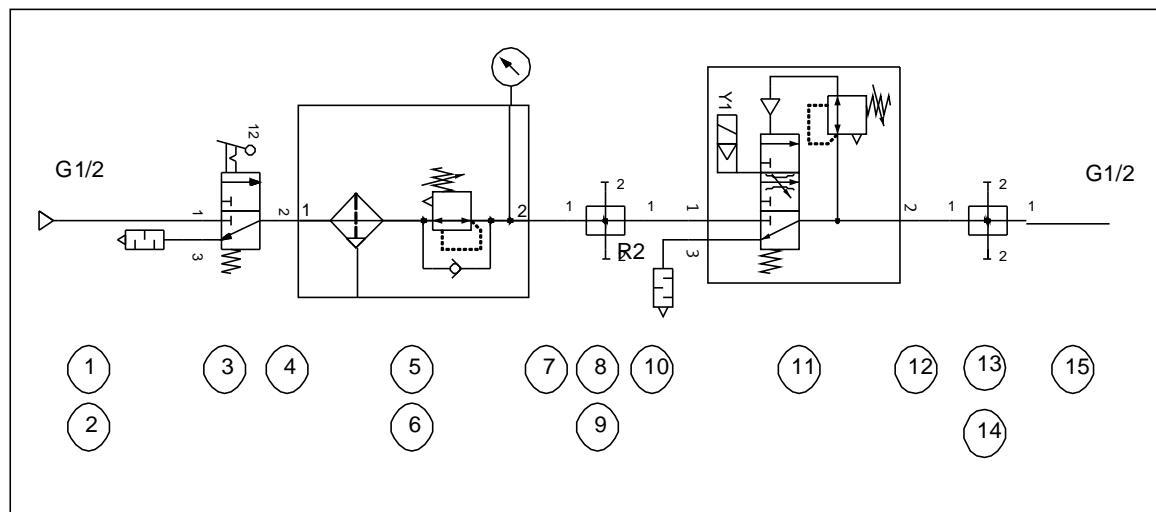
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - Standard - G1/2"

Order number: 8043221

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/2"	MS6-AGD	526082
2	1	Module connector	MS6-MV	532799
3	1	On-off valve with silencer 6844 U-1/2-B	MS6-EM1-1/2-S	541268
4	1	Mounting bracket	MS6-WP	532195
5	1	Filter regulator 40µm	MS6-LFR-1/2-D7-E-R-M-A4-AS	526490
	1	Filter cartridge 40 µm (replacement)	MS6-LFP-E	534500
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS6-MV	532799
8	1	Branching module	MS6-FRM-1/2	529853
9	2	Blanking plug	B-1/2	3571
10	1	Module connector	MS6-MV	532799
11	1	Soft-start/quick exhaust valve with silencer 6845 U-3/4-B	MS6-SV-1/2-C-10V24E-S	609307
12	1	Mounting bracket	MS6-WP	532195
13	1	Branching module	MS6-FRM-1/2	529853
14	2	Blanking plug	B-1/2	3571
15	1	Module connector	MS6-MV	532799

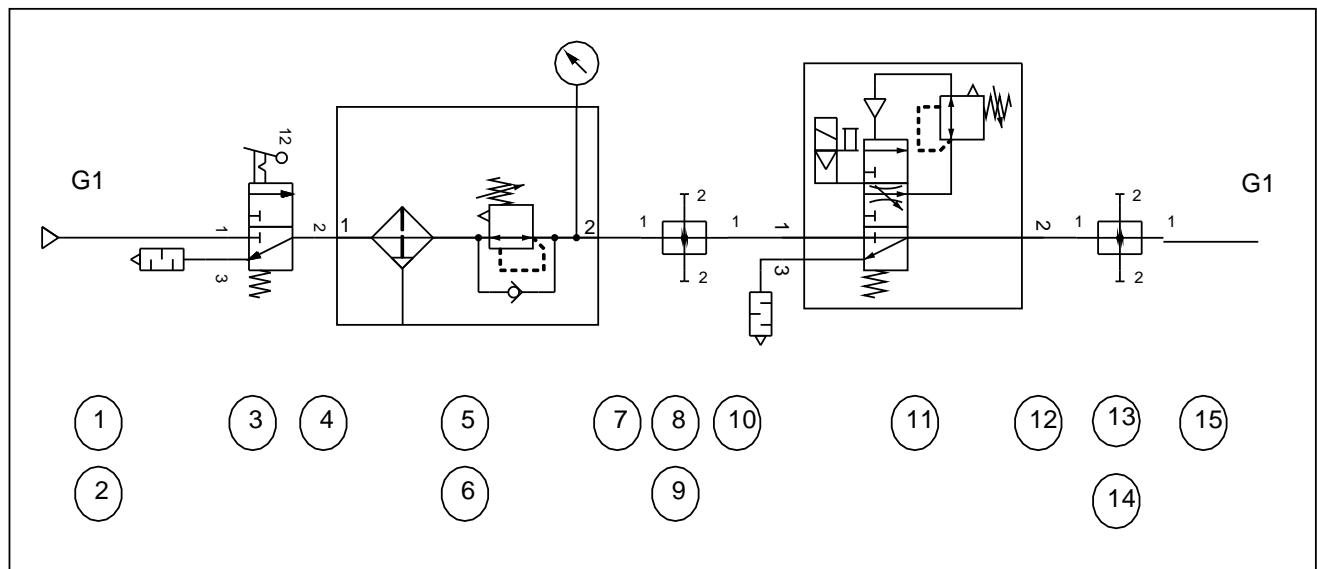
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - Standard - G1"

Order number: **8043222**

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1"	MS9-AGF	552956
2	1	Module connector	MS9-MV	552950
3	1	On-off valve with silencer 151990 U-1-B	MS9-EM-G-S-VS	562952
4	1	Mounting bracket	MS9-WP	552947
5	1	Filter regulator 40µm	MS9-LFR-G-D7-E-U-M-A4-AS	562531
	1	Filter cartridge 40 µm (replacement)	MS9-LFP-E	570310
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS9-MV	552950
8	1	Branching module	MS9-FRM-G-VS	564145
9	2	Blanking plug	B-1	5763
10	1	Module connector	MS9-MV	552950
11	1	Soft-start/quick exhaust valve with silencer 151990 U-1-B	MS9-SV-G-C-10V24P-S-VS	562176
12	1	Mounting bracket	MS9-WP	552947
13	1	Branching module	MS9-FRM-G-VS	564145
14	2	Blanking plug	B-1	5763
15	1	Module connector	MS9-MV	552950

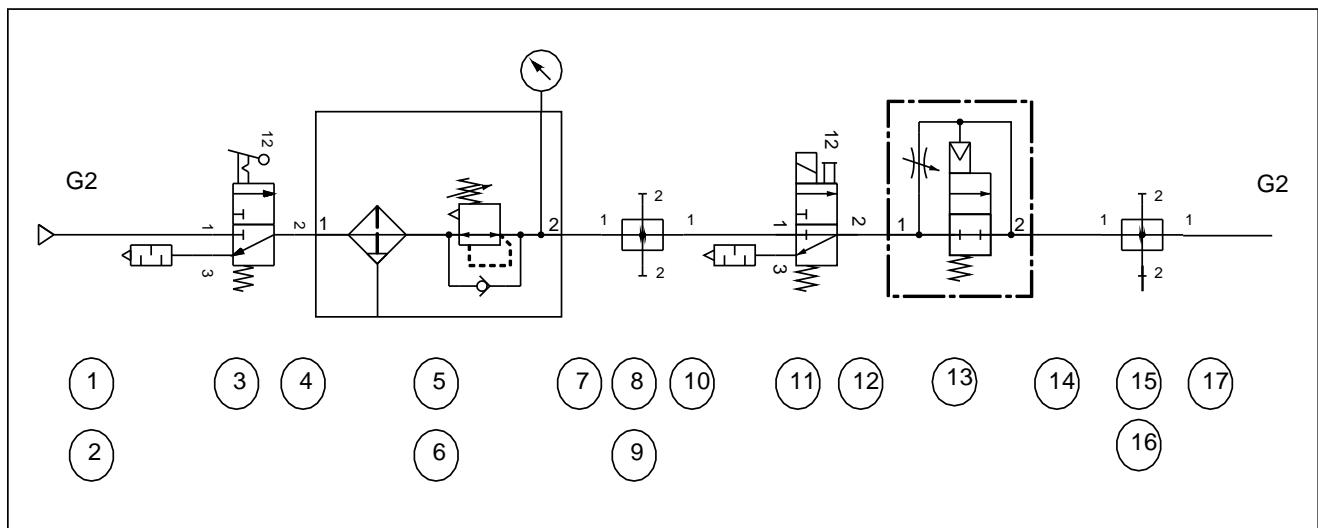
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - Standard - G2"

Order number: DE_CS.1449353-A

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 2"	MS12-AGI	537138
2	1	Module connector	MS12-MV	537134
3	1	On-off valve with silencer 151990 U-1-B	MS12-EM-G-S	535031
4	1	Mounting bracket	MS12-WP	537133
5	1	Filter regulator 40µm	MS12-LFR-G-D7-E-U-M-A4-LD-AS	535022
	1	Filter cartridge 40 µm (replacement)	MS12-LFP-E	537144
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS12-MV	537134
8	1	Branching module	MS12-FRM-G	541681
9	2	Blanking plug		
10	1	Module connector	MS12-MV	537134
11	1	On-off valve electrical with silencer 151990 U-1-B	MS12-EE-G-V24P-S	535032
12	1	Module connector	MS12-MV	537134
13	1	Soft-start valve	MS12-DL-G	541497
14	1	Mounting bracket	MS12-WP	537133
15	1	Branching module	MS12-FRM-G	541681
16	2	Blanking plug		
17	1	Module connector	MS12-MV	537134

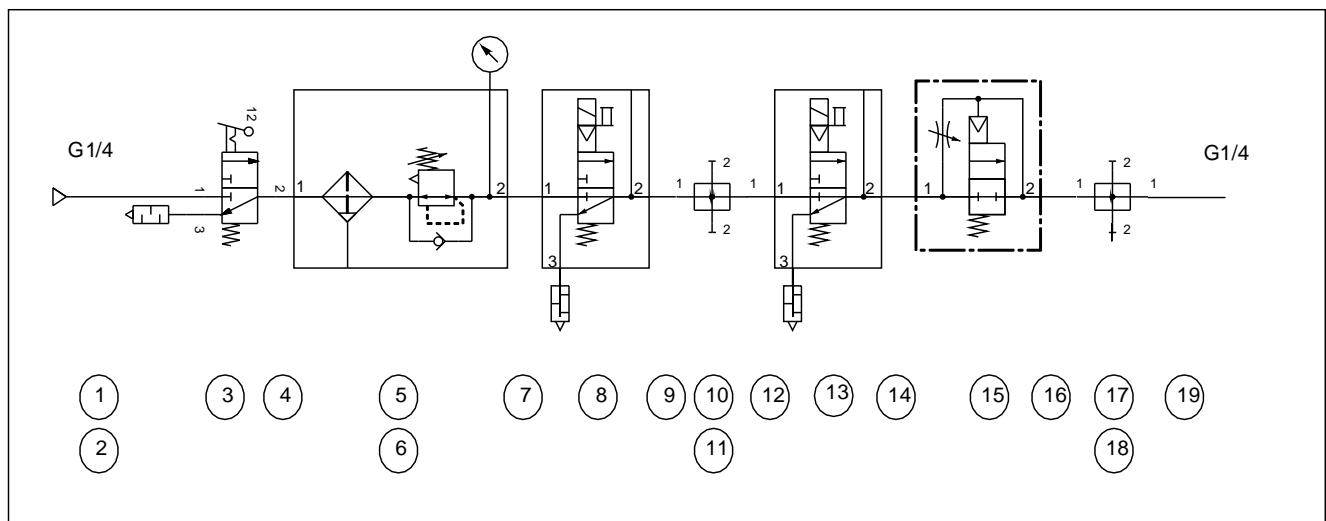
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit – with electric valve for sealing air - G1/4"

Order number: 8043227

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/4"	MS4-AGB	526069
2	1	Module connector	MS4-MV	532798
3	1	On-off valve with silencer 6842 U-1/4-B	MS4-EM1-1/4-S	541259
4	1	Mounting bracket	MS4-WP	532184
5	1	Filter regulator 40µm	MS4-LFR-1/4-D7-E-R-M-A4-AS	526489
	1	Filter cartridge 40 µm (replacement)	MS4-LFP-E	534502
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS4-MV	532798
8	1	On-off valve electrical with silencer 6842 U-1/4-B	MS4-EE-1/4-10V24P-S	527709
9	1	Module connector	MS4-MV	532798
10	1	Branching module	MS4-FRM-1/4	529555
11	2	Blanking plug	B-1/4	3569
12	1	Module connector	MS4-MV	532798
13	1	On-off valve electrical with silencer 6842 U-1/4-B	MS4-EE-1/4-10V24P-S	527709
14	1	Module connector	MS4-MV	532798
15	1	Soft-start valve	MS4-DL-1/4	529531
16	1	Mounting bracket	MS4-WP	532184
17	1	Branching module	MS4-FRM-1/4	529555
18	2	Blanking plug	B-1/4	3569
19	1	Module connector	MS4-MV	532798

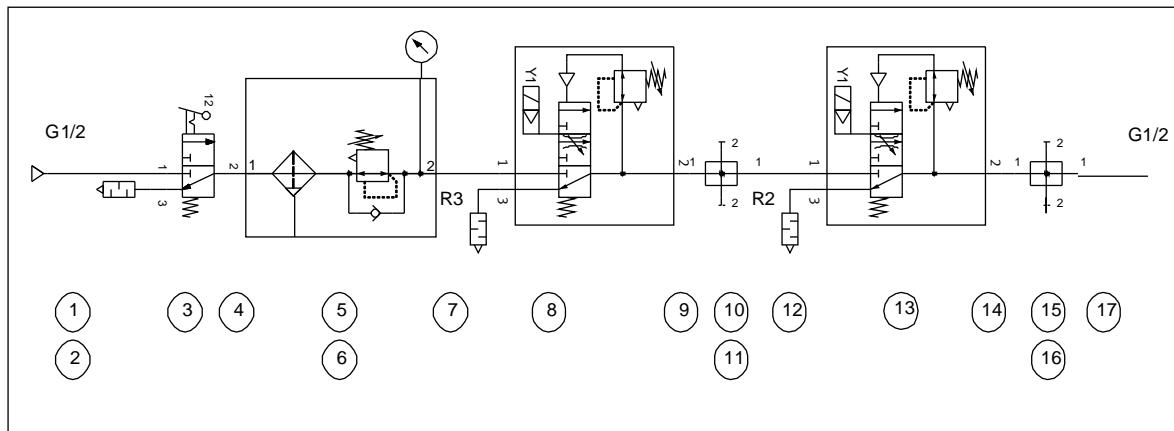
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - with electric valve for sealing air - G1/2"

Order number: 8043223

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/2"	MS6-AGD	526082
2	1	Module connector	MS6-MV	532799
3	1	On-off valve with silencer 6844 U-1/2-B	MS6-EM1-1/2-S	541268
4	1	Mounting bracket	MS6-WP	532195
5	1	Filter regulator 40µm	MS6-LFR-1/2-D7-E-R-M-A4-AS	526490
	1	Filter cartridge 40 µm (replacement)	MS6-LFP-E	534500
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS6-MV	532799
8	1	Soft-start/quick exhaust valve with silencer 6845 U-3/4-B	MS6-SV-1/2-C-10V24E-S	609307
9	1	Module connector	MS6-MV	532799
10	1	Branching module	MS6-FRM-1/2	529853
11	2	Blanking plug	B-1/2	3571
12	1	Module connector	MS6-MV	532799
13	1	Soft-start/quick exhaust valve with silencer 6845 U-3/4-B	MS6-SV-1/2-C-10V24E-S	609307
14	1	Mounting bracket	MS6-WP	532195
15	1	Branching module	MS6-FRM-1/2	529853
16	2	Blanking plug	B-1/2	3571
17	1	Module connector	MS6-MV	532799

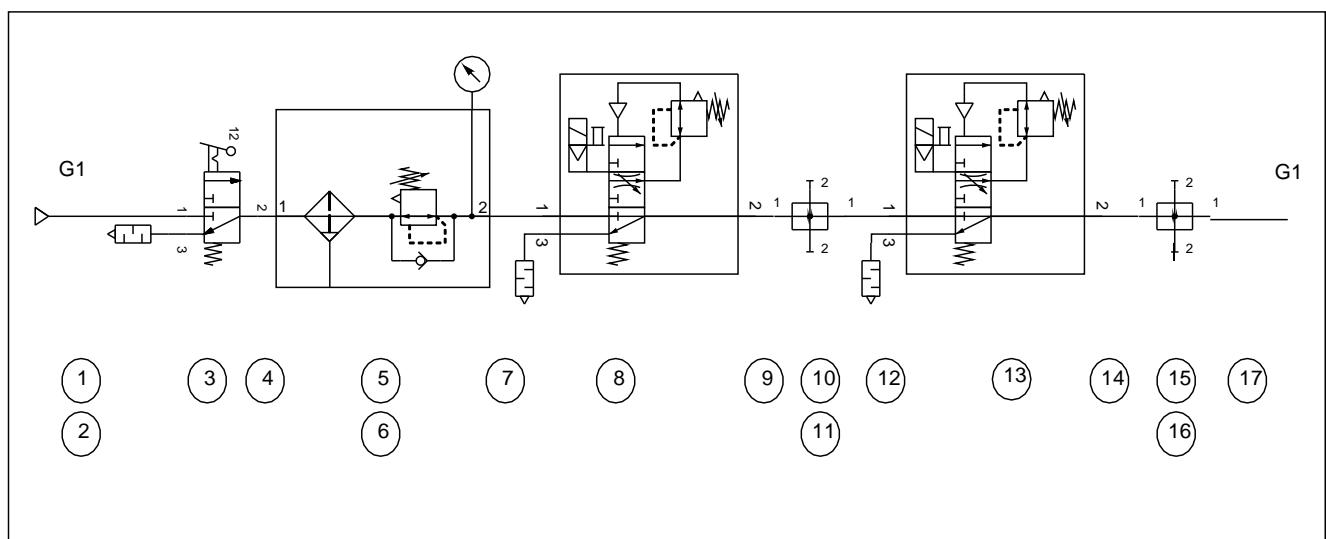
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - with electric valve for sealing air - G1"

Order number: 8043224

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1"	MS9-AGF	552956
2	1	Module connector	MS9-MV	552950
3	1	On-off valve with silencer 151990 U-1-B	MS9-EM-G-S-VS	562952
4	1	Mounting bracket	MS9-WP	552947
5	1	Filter regulator 40µm	MS9-LFR-G-D7-E-U-M-A4-AS	562531
	1	Filter cartridge 40 µm (replacement)	MS9-LFP-E	570310
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS9-MV	552950
8	1	Soft-start/quick exhaust valve with silencer 151990 U-1-B	MS9-SV-G-C-10V24P-S-VS	562176
9	1	Module connector	MS9-MV	552950
10	1	Branching module	MS9-FRM-G-VS	564145
11	2	Blanking plug	B-1	5763
12	1	Module connector	MS9-MV	552950
13	1	Soft-start/quick exhaust valve with silencer 151990 U-1-B	MS9-SV-G-C-10V24P-S-VS	562176
14	1	Mounting bracket	MS9-WP	552947
15	1	Branching module	MS9-FRM-G-VS	564145
16	2	Blanking plug	B-1	5763
17	1	Module connector	MS9-MV	552950

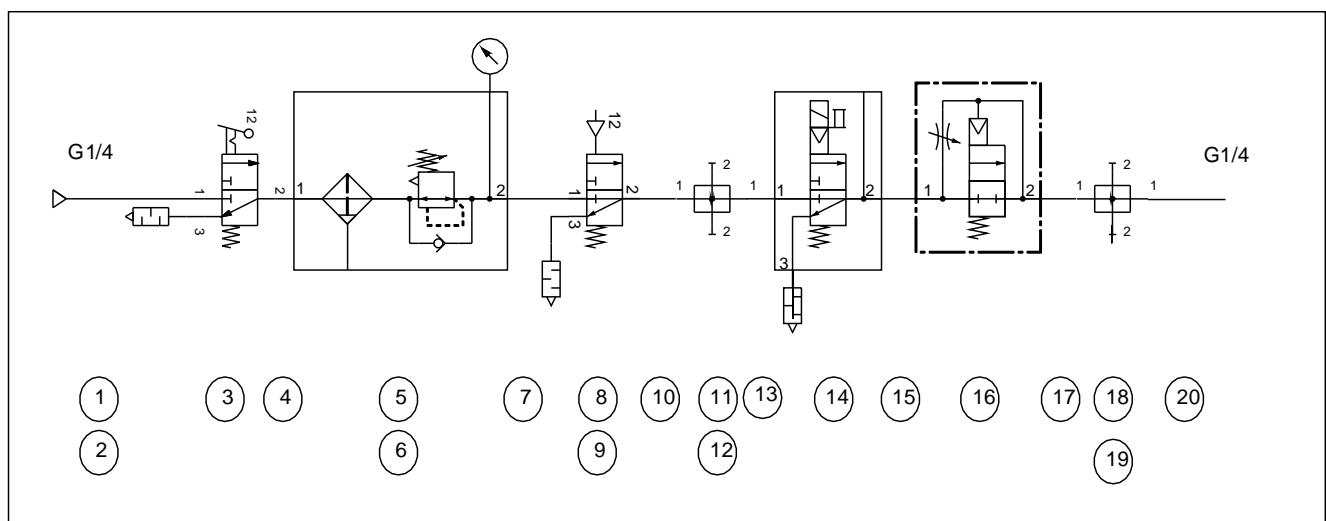
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - with pneumatic valve for sealing air - G1/4"

Order number: 8043228

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/4"	MS4-AGB	526069
2	1	Module connector	MS4-MV	532798
3	1	On-off valve with silencer 6842 U-1/4-B	MS4-EM1-1/4-S	541259
4	1	Mounting bracket	MS4-WP	532184
5	1	Filter regulator 40µm	MS4-LFR-1/4-D7-E-R-M-A4-AS	526489
	1	Filter cartridge 40 µm (replacement)	MS4-LFP-E	534502
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS4-MV	532798
8	1	On-off valve pneumatic	MS4-EE-1/4-EP-CS	8028520
9	1	silencer	U-1/4-B	6842
10	1	Module connector	MS4-MV	532798
11	1	Branching module	MS4-FRM-1/4	529555
12	2	Blanking plug	B-1/4	3569
13	1	Module connector	MS4-MV	532798
14	1	On-off valve electrical with silencer 6842 U-1/4-B	MS4-EE-1/4-10V24P-S	527709
15	1	Module connector	MS4-MV	532798
16	1	Soft-start valve	MS4-DL-1/4	529531
17	1	Mounting bracket	MS4-WP	532184
18	1	Branching module	MS4-FRM-1/4	529555
19	2	Blanking plug	B-1/4	3569
20	1	Module connector	MS4-MV	532798

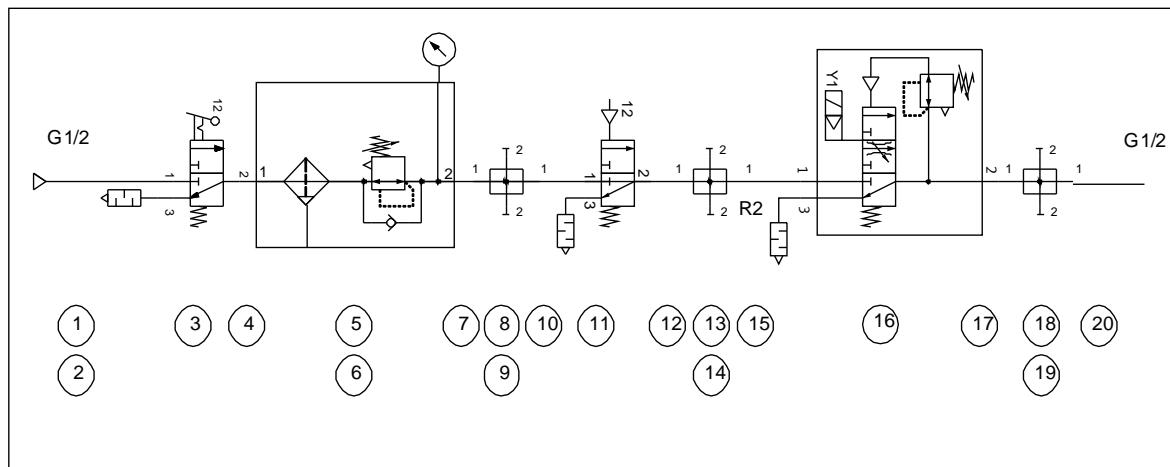
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - with pneumatic valve for sealing air - G1/2"

Order number: 8043225

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1/2"	MS6-AGD	526082
2	1	Module connector	MS6-MV	532799
3	1	On-off valve with silencer 6844 U-1/2-B	MS6-EM1-1/2-S	541268
4	1	Mounting bracket	MS6-WP	532195
5	1	Filter regulator 40µm	MS6-LFR-1/2-D7-E-R-M-A4-AS	526490
	1	Filter cartridge 40 µm (replacement)	MS6-LFP-E	534500
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS6-MV	532799
8	1	Branching module	MS6-FRM-1/2	529853
9	2	Blanking plug	B-1/2	3571
10	1	Module connector	MS6-MV	532799
11	1	On-off valve pneumatic with silencer 6844 U-1/2-B	MS6-EE-1/2-EP-CS	3075309
12	1	Module connector	MS6-MV	532799
13	1	Branching module	MS6-FRM-1/2	529853
14	2	Blanking plug	B-1/2	3571
15	1	Module connector	MS6-MV	532799
16	1	Soft-start/quick exhaust valve with silencer 6845 U-3/4-B	MS6-SV-1/2-C-10V24E-S	609307
17	1	Mounting bracket	MS6-WP	532195
18	1	Branching module	MS6-FRM-1/2	529853
19	2	Blanking plug	B-1/2	3571
20	1	Module connector	MS6-MV	532799

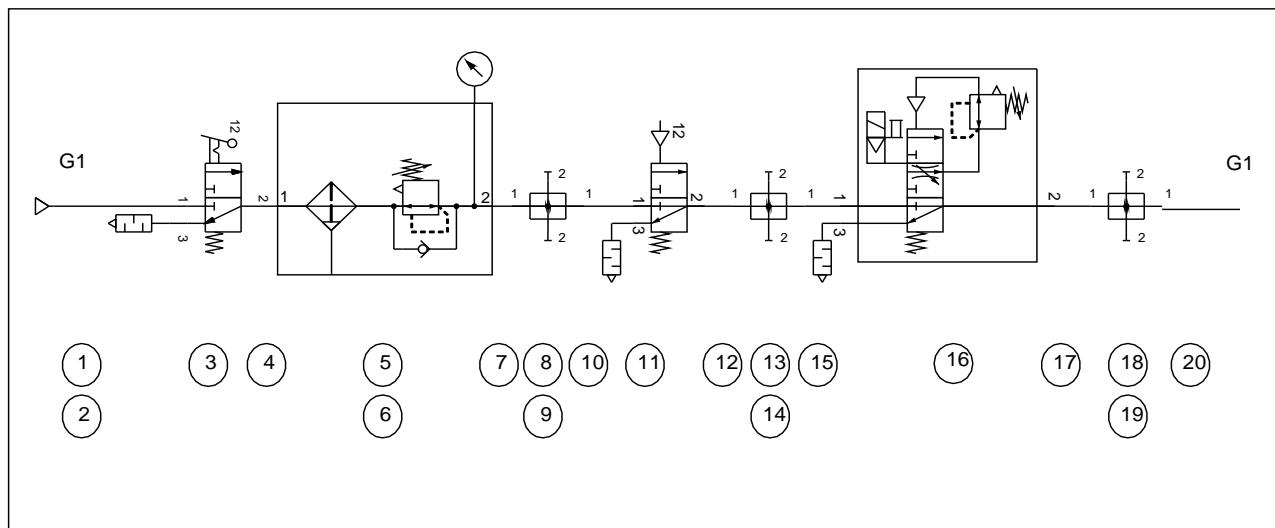
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - with pneumatic valve for sealing air - G1"

Order number: DE_CS.1449360-A

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Connecting plate 1"	MS9-AGF	552956
2	1	Module connector	MS9-MV	552950
3	1	On-off valve with silencer 151990 U-1-B	MS9-EM-G-S-VS	562952
4	1	Mounting bracket	MS9-WP	552947
5	1	Filter regulator 40µm	MS9-LFR-G-D7-E-U-M-A4-AS	562531
	1	Filter cartridge 40 µm (replacement)	MS9-LFP-E	570310
6	1	Pressure gauge red/green	MA-50-16-R1/4-E-RG	525729
7	1	Module connector	MS9-MV	552950
8	1	Branching module	MS9-FRM-G-VS	564145
9	2	Blanking plug	B-1	5763
10	1	Module connector	MS9-MV	552950
11	1	On-off valve pneumatic with silencer 151990 U-1-B	MS9-EE-G-EP-S-VS-CS	2677260
12	1	Module connector	MS9-MV	552950
13	1	Branching module	MS9-FRM-G-VS	564145
14	2	Blanking plug	B-1	5763
15	1	Module connector	MS9-MV	552950
16	1	Soft-start/quick exhaust valve with silencer 151990 U-1-B	MS9-SV-G-C-10V24P-S-VS	562176
17	1	Mounting bracket	MS9-WP	552947
18	1	Branching module	MS9-FRM-G-VS	564145
19	2	Blanking plug	B-1	5763
20	1	Module connector	MS9-MV	552950

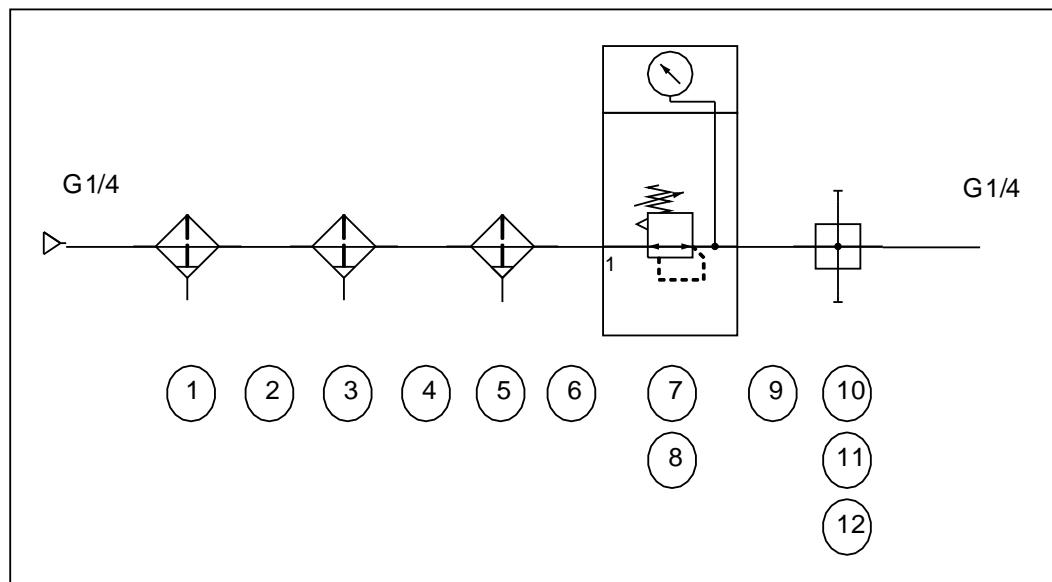
A pressure monitoring via a pressure switch is provided at the service unit. For this purpose, a released electronic pressure switch must be ordered separately. pressure switches see chapter 3.6.6 (SPAU-).

Service unit - sealing air - G1/4"

Order number: DE_CS.1431151-B

[Download Pneumatic Drawing](#)

Structure:



Part list:

Pos.	Piece	Name	Type	Part number
1	1	Fine filter 1µm	MS6-LFM-1/4-BRM	529667
2	1	Mounting bracket	MS6-WP	532195
3	1	Micro filter 0,01µm	MS6-LFM-1/4-ARM	529663
4	1	Module connector	MS6-MV	532799
5	1	Activated carbon filter	MS6-LFX-1/4-R	529683
6	1	Module connector	MS6-MV	532799
7	1	Precision pressure regulator	MS6-LRP-1/4-D4-A8-AS	538028
8	1	Pressure gauge red/green	MA-40-2,5-R1/8-E-RG	546963
9	1	Mounting bracket	MS6-WP	532195
10	1	Branching module	MS6-FRM-1/4	529857
11	2	Blanking plug	B-1/2	3571
12	1	Push-in fitting	QS-G1/4-6-I	186108

Compressed air quality Output:

1.7.1 to DIN ISO8573-1

Nominal flowrate:

ca. 380 l/ min

Min. flow rate to comply with the air quality class:

135 l/ min

3.9 Pneumatic fittings system

3.9.1. PUN-H Standard O.D. tubing

Name	Order code	Remarks	Picture	Links
PUN-H	PUN-...	Outside diameter: 4 ... 12 mm Temperature-dependent operating pressure: -0.95 ... 10 bar Ambient temperature: -35 ... 60° C Operating medium - Compressed air - Vacuum - Water		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
197383	PUN-H-4X0,75-BL	plastic tubing	  
197376	PUN-H-4X0,75-NT	plastic tubing	  
197384	PUN-H-6X1-BL	plastic tubing	  
197377	PUN-H-6X1-NT	plastic tubing	  
197385	PUN-H-8X1,25-BL	plastic tubing	  
197378	PUN-H-8X1,25-NT	plastic tubing	  
197386	PUN-H-10X1,5-BL	plastic tubing	  
197379	PUN-H-10X1,5-NT	plastic tubing	  
197387	PUN-H-12X2-BL	plastic tubing	  
197380	PUN-H-12X2-NT	plastic tubing	  

3.9.2. PUN-V0 Standard O.D. tubing

Name	Order code	Remarks	Picture	Links
PUN-V0	PUN-...	Outside diameter: 4 ... 12mm Temperature-dependent operating pressure: -0.95 ... 10 bar Ambient temperature: -35 ... 60° C Operating medium - Compressed air - Vacuum for welding range		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
570349	PUN-V0-4X1-SW-C	plastic tubing	  
561698	PUN-V0-6X2-SW-C	plastic tubing	  
561699	PUN-V0-8X2-SW-C	plastic tubing	  
561700	PUN-V0-10X2-SW-C	plastic tubing	  
561701	PUN-V0-12X2-SW-C	plastic tubing	  

3.9.3. NPQE-F1A Push-in fittings

Name	Order code	Remarks	Picture	Links
Push-in fittings NPQE-F1A	NPQE-...	Connection M5, M7, G1/8, G1/4 For tubing outside diameter 4, 6, 8, 10, 12 mm Ambient temperature -5 ... 60 °C Suitable for vacuum		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8144605	NPQE-DK-G14-Q10-F1A-P10	push-in fitting	 PDF  CAD
8144604	NPQE-DK-G14-Q8-F1A-P10	push-in fitting	 PDF  CAD
8144600	NPQE-DK-G18-Q6-F1A-P10	push-in fitting	 PDF  CAD
8144601	NPQE-DK-G18-Q8-F1A-P10	push-in fitting	 PDF  CAD
8144595	NPQE-DK-M5-Q4-F1A-P10	push-in fitting	 PDF  CAD
8144598	NPQE-DK-M7-Q6-F1A-P10	push-in fitting	 PDF  CAD

3.9.4. NPQR Push-in fittings

Name	Order code	Remarks	Picture	Links
Push-in fittings NPQR, stainless steel	NPQR-...	Connection M5, M7, G1/8, G1/4, G3/8, G1/2 For outside tubing diameter 4, 6, 8, 10, 12 mm Push-in sleeve: 4, 6, 8, 10, 12 mm Threaded connection - G thread push-in fittings Plug screw		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
8085676	NPQR-BK-G12	plug screw	 PDF  CAD
8085674	NPQR-BK-G14	plug screw	 PDF  CAD
8085673	NPQR-BK-G18	plug screw	 PDF  CAD
8085675	NPQR-BK-G38	plug screw	 PDF  CAD
8085672	NPQR-BK-M7	plug screw	 PDF  CAD
8085669	NPQR-DK-G12-Q12	push-in fitting	 PDF  CAD
8085666	NPQR-DK-G14-Q10	push-in fitting	 PDF  CAD
8085665	NPQR-DK-G14-Q8	push-in fitting	 PDF  CAD
8085662	NPQR-DK-G18-Q6	push-in fitting	 PDF  CAD
8085663	NPQR-DK-G18-Q8	push-in fitting	 PDF  CAD
8085667	NPQR-DK-G38-Q10	push-in fitting	 PDF  CAD
8085668	NPQR-DK-G38-Q12	push-in fitting	 PDF  CAD
8085657	NPQR-DK-M5-Q4	push-in fitting	 PDF  CAD
8085660	NPQR-DK-M7-Q6	push-in fitting	 PDF  CAD
8085700	NPQR-D-Q10-E	plug connector	 PDF  CAD
8085706	NPQR-D-Q10-Q8	plug connector	 PDF  CAD
8085701	NPQR-D-Q12-E	plug connector	 PDF  CAD
8085707	NPQR-D-Q12-Q10	plug connector	 PDF  CAD
8085697	NPQR-D-Q4-E	plug connector	 PDF  CAD

Part no.	Order code	Name	Links
8085698	NPQR-D-Q6-E	plug connector	
8085704	NPQR-D-Q6-Q4	plug connector	
8085699	NPQR-D-Q8-E	plug connector	
8085705	NPQR-D-Q8-Q6	plug connector	
8085732	NPQR-H-Q10-E	push-in bulkhead connector	
8085733	NPQR-H-Q12-E	push-in bulkhead connector	
8085729	NPQR-H-Q4-E	push-in bulkhead connector	
8085730	NPQR-H-Q6-E	push-in bulkhead connector	
8085731	NPQR-H-Q8-E	push-in bulkhead connector	
8085688	NPQR-L-G12-Q12	push-in fitting	
8085685	NPQR-L-G14-Q10	push-in fitting	
8085684	NPQR-L-G14-Q8	push-in fitting	
8085681	NPQR-L-G18-Q6	push-in fitting	
8085682	NPQR-L-G18-Q8	push-in fitting	
8085686	NPQR-L-G38-Q10	push-in fitting	
8085687	NPQR-L-G38-Q12	push-in fitting	
8085679	NPQR-L-M5-Q4	push-in fitting	
8085712	NPQR-L-Q10-E	plug connector	
8085713	NPQR-L-Q12-E	plug connector	
8085709	NPQR-L-Q4-E	plug connector	
8085710	NPQR-L-Q6-E	plug connector	
8085711	NPQR-L-Q8-E	plug connector	
8085719	NPQR-T-Q10-E	plug connector	
8085720	NPQR-T-Q12-E	plug connector	
8085716	NPQR-T-Q4-E	plug connector	
8085717	NPQR-T-Q6-E	plug connector	
8085718	NPQR-T-Q8-E	plug connector	

3.10 Control technology

3.10.1. VLG Pneumatic and electro-pneumatic controllers

Name	Order code	Remarks	Picture	Links
Pulse oscillators VLG	VLG----	Connection G1/8, G 1/4 Flow rate 120 to 600 l/min Frequency 0.5 to 50 Hz		DKI Catalogue PDF Documentation DKI 电子目录 PDF 文档 DKI 카타로그 PDF 카탈로그 및 상세 정보

Part no.	Order code	Name	Links
4026	VLG-4-1/4	pulse generator	
4025	VLG-4-1/8	pulse generator	

3.11 Other pneumatic equipment

3.11.1. U Silencers

Name	Order code	Remarks	Picture	Links
U	U-...	Threaded connection M5, G1/2, G1/4, G1/8, G3/8, G3/4, G1 Barbed connector connection PK-3, PK-4 Noise level 65 ... 84 dB(A).		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

Part no.	Order code	Name	Links
6844	U-1/2-B	silencer	
6842	U-1/4-B	silencer	
6841	U-1/8-B	silencer	
151990	U-1-B	silencer	
6845	U-3/4-B	silencer	
6843	U-3/8-B	silencer	

3.11.2. UO Silencers

Name	Order code	Remarks	Picture	Links
UO	UO-...	Port thread M7, G1/8, G1/4 Special silencer with opening For VN vacuum generator		 Catalogue  Documentation  电子目录  文档  카타로그  카탈로그 및 상세 정보

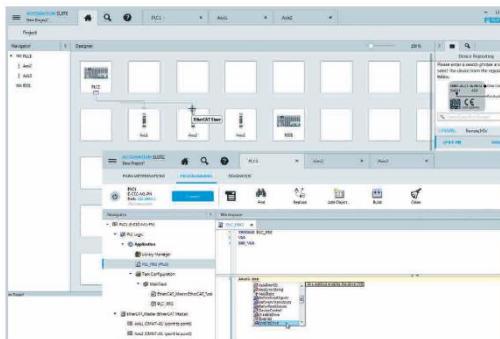
Part no.	Order code	Name	Links
197584	UO-1/4	silencer	
197583	UO-1/8	silencer	

4. Software- and Engineeringtools

4.1.1. Festo Automation Suite FAS

Note: Use Festo Automation Suite only from version 2.1.0.519.

Parameterization, programming and maintenance of electronic devices from Festo



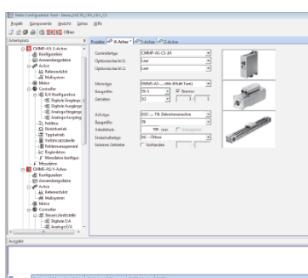
[Automation Suite](#)

4.1.2. “CMMT_FullParam” function block

Festo_CMMT_FullParam

With this module, a motor controller can be put into operation with a customer-specific parameter set. The parameter set is generated from the Festo Automation Suite and can be read into the TIA Portal. This enables commissioning without Festo Automation Suite, e.g. in the event of a replacement.

Further information on operation and setup can be found in the user documentation for the motor controller.



[Access to the function block for the TIA Portal including documentation and application description](#)

[Manual for CMMT-ST](#)

5 Data sheet

