

## Customer information as per Art. 33 (1) of the REACH Directive EC No. 1907/2006

Valid until recalled

To our many valued customers

Our reference  
PQ-C/DUVE

On 10th September 2015, the European Court of Justice clarified the definition of a product for the purposes of the REACH Directive. This means that suppliers, manufacturers and importers of products will need to have their products re-assessed. If the limit value of 0.1m% for a substance of very high concern (SVHC) is exceeded in an installed sub-product, the product in question must be registered in accordance with Art. 33 (1) of the REACH Directive – without regard to the m% content of the whole product.

### Information concerning lead metal

Due to characteristics which render it toxic for reproduction, lead metal (CAS no. 7439-92-1) was added to the REACH candidate list on the 27<sup>th</sup> of June 2018. And thus, lead metal has been identified as an SVHC, as is also the case for 190 other substances. The potentially negative characteristics of lead – with regard to toxicity for reproduction as well – are not new as such, and all previously correct and necessary protective measures for handling materials containing lead remain valid without restriction. Lead metal is widely used in industry.

In Festo's product, lead is used primarily as an alloying element in aluminium, copper and steel.

Lead is alloyed into metallic materials in order to improve machinability, and it's necessary for manufacturing reasons. Without lead as an alloying element, machinability as well as surface quality are impaired. This would result in faster wear and a shortened product service life.

- ⇒ **Information in accordance with article 33 (1) of the REACH directive:**  
A large portion of our products whose constituents include, amongst other materials, aluminum or copper alloys (brass), contain more than 0.1% lead metal by mass (CAS no. 7439-92-1).
- ⇒ **Exclusion:**  
Our entire range of stainless steel products (high-alloy steel) and all Festo's tubing are excluded.

Legal form:  
Limited partnership  
Registered office: Esslingen a. N.  
Registry court Stuttgart  
HRA 211583  
Value added tax id. number:  
DE 145 339 206  
General partner:  
Festo Management  
Aktiengesellschaft  
Registered office: Vienna/Austria  
Commercial registry court:  
Commercial court Vienna  
Register no. FN 303027 d  
Management Board:  
Dipl.-Ing. Gerhard Borho  
Dipl.-Kfm. Alfred Goll  
Dipl.-Ing. Dr. h.c. Oliver D. Jung  
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The products listed below contain sub-products with an SVHC content of over 0.1m%.

Part No.	Festo Type	Description	SVHC > 0,1m%	CAS-Nr.
552103	CDSA-D1-VX	Operator unit	Imidazolidine-2-thione	96-45-7

Part No.	Festo Type	Description	SVHC > 0,1m%	CAS-Nr.
1732488	143.4X42.5	Interlayer	DMAC, N,N-dimethylacetamide	127-19-5

The interlayer is installed in products mentioned below:

Part No.	Festo Type	Description
572986	CMMS-AS-C4-3A-G2	Motor controller

Part No.	Festo Type	Description	SVHC > 0,1m%	CAS-Nr.
223070	MFH-3-1/4	Sealing ring	DEHP, Bis(2-ethylhexyl)phthalate	117-81-7

The sealing ring is installed in products mentioned below:

Part No.	Festo Type	Description
7876	MOFH-3-1/4	Tiger Classic valve
9964	MFH-3-1/4	Tiger Classic valve
9984	VL/O-3-1/4	Tiger Classic valve
535898	MFH-3-1/4-EX	Tiger Classic valve
535904	MOFH-3-1/4-EX	Tiger Classic valve
536029	VL/O-3-1/4-EX	Tiger Classic valve

Part No.	Festo Type	Description	SVHC > 0,1m%	CAS-Nr.
241239	MOEH-3-0,9	Sealing ring	DEHP, Bis(2-ethylhexyl)phthalate	117-81-7

The sealing ring is installed in products mentioned below:

Part No.	Festo Type	Description
35531	VAD-ME-I-1/8	Vacuum generator
35532	VAD-ME-I-1/4	Vacuum generator
35533	VAD-ME-I-3/8	Vacuum generator
35554	VAD-ME-1/8	Vacuum generator
35555	VAD-ME-1/4	Vacuum generator
35556	VAD-ME-3/8	Vacuum generator
173124	MEH-3/2-1/8-B	Midi pneumatic valve
173125	MEH-3/2-5,0-B	Midi pneumatic valve
173126	MEH-3/2-1/8-P-B	Midi pneumatic valve
173127	MEH-5/2-1/8-B	Midi pneumatic valve
173128	MEH-5/2-5,0-B	Midi pneumatic valve
173129	MEH-5/2-1/8-P-B	Midi pneumatic valve
173130	MEH-5/2-1/8-S-B	Midi pneumatic valve
173131	MEH-5/2-5,0-S-B	Midi pneumatic valve
173132	MEH-5/2-1/8-P-S-B	Midi pneumatic valve
173133	MEH-5/2-1/8-L-B	Midi pneumatic valve
173134	MEH-5/2-5,0-L-B	Midi pneumatic valve
173135	MEH-5/2-1/8-P-L-B	Midi pneumatic valve
173136	MEH-5/2-1/8-L-S-B	Midi pneumatic valve
173137	MEH-5/2-5,0-L-S-B	Midi pneumatic valve
173138	MEH-5/2-1/8-P-L-S-B	Midi pneumatic valve
173139	MEH-5/3G-1/8-B	Midi pneumatic valve
173140	MEH-5/3G-5,0-B	Midi pneumatic valve
173141	MEH-5/3G-1/8-P-B	Midi pneumatic valve
173142	MEH-5/3G-1/8-S-B	Midi pneumatic valve
173143	MEH-5/3G-5,0-S-B	Midi pneumatic valve
173144	MEH-5/3G-1/8-P-S-B	Midi pneumatic valve
173145	MEH-5/3E-1/8-B	Midi pneumatic valve
173146	MEH-5/3E-5,0-B	Midi pneumatic valve
173147	MEH-5/3E-1/8-P-B	Midi pneumatic valve
173148	MEH-5/3E-1/8-S-B	Midi pneumatic valve
173149	MEH-5/3E-5,0-S-B	Midi pneumatic valve
173150	MEH-5/3E-1/8-P-S-B	Midi pneumatic valve

173151	MEH-5/3B-1/8-B	Midi pneumatic valve
173152	MEH-5/3B-5,0-B	Midi pneumatic valve
173153	MEH-5/3B-1/8-P-B	Midi pneumatic valve
173154	MEH-5/3B-1/8-S-B	Midi pneumatic valve
173155	MEH-5/3B-5,0-S-B	Midi pneumatic valve
173156	MEH-5/3B-1/8-P-S-B	Midi pneumatic valve
173404	MEH-5/2-1/8-P-I-B	Midi pneumatic valve
173405	MEH-5/2-1/8-P-S-I-B	Midi pneumatic valve
173406	MEH-5/2-5,0-I-B	Midi pneumatic valve
173407	MEH-5/2-5,0-S-I-B	Midi pneumatic valve
173408	MEH-5/3G-5,0-I-B	Midi pneumatic valve
173409	MEH-5/3E-5,0-I-B	Midi pneumatic valve
173416	MEH-3/2-5,0-I-B	Midi pneumatic valve
173417	MEH-3/2-1/8-P-I-B	Midi pneumatic valve
173428	MOEH-3/2-1/8-B	Midi pneumatic valve
173429	MOEH-3/2-5,0-B	Midi pneumatic valve
173430	MOEH-3/2-1/8-P-B	Midi pneumatic valve
173431	JMEH-5/2-1/8-B	Midi pneumatic valve
173432	JMEH-5/2-5,0-B	Midi pneumatic valve
173433	JMEH-5/2-1/8-P-B	Midi pneumatic valve
173434	JMEH-5/2-1/8-S-B	Midi pneumatic valve
173435	JMEH-5/2-5,0-S-B	Midi pneumatic valve
173436	JMEH-5/2-1/8-P-S-B	Midi pneumatic valve
535021	MS 12-LR	Pressure regulator
539639	VPPE-3-1/8-6-010	Proportional-pressure regulators

## Piezo valves

Piezo ceramic bender actuators are included in our piezo valves. In the spirit of the ECJ decision, these are sub-products about which we are required to provide information in accordance with article 33 (1), if they contain an SVHC with a concentration of greater than 0.1% by mass. PZT (lead zirconate titanate, CAS no. 12626-81-2) is the main constituent of the ceramic material. PZT is included in the REACH candidate list as an SVHC, and is contained by our sub-product in a concentration of greater than 0.1% by mass.

The PZT in the piezo ceramics we use is sintered, and is thus insolubly bound. As long as our piezo valves are used correctly, the contained PZT does not represent a hazard at any time.

To the best of our knowledge, no alternative material is currently available which assures corresponding functionality and service life.

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
704749	VEMR	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
572204	VEMR-BH-6-13-D2-W4-22X4-R5	Piezo valve
572206	VEMR-B-6-13-D6-W4-22X5-R5	Piezo valve
3115062	VEMR-B-6-14-D3-W4-22X4-R5-CS	Piezo valve
4059168	VEMR-B-6-7-D2-W4-22X4-R5	Piezo valve
8046263	VEAB-B-26-D9-F-V1-1R1	Proportional-pressure regulator
8046264	VEAB-B-26-D9-F-A4-1R1	Proportional-pressure regulator
8046265	VEAB-B-26-D12-F-V1-1R1	Proportional-pressure regulator
8046266	VEAB-B-26-D12-F-A4-1R1	Proportional-pressure regulator
8046267	VEAB-B-26-D7-F-V1-1R1	Proportional-pressure regulator
8046268	VEAB-B-26-D7-F-A4-1R1	Proportional-pressure regulator
8046269	VEAB-B-26-D2-F-V1-1R1	Proportional-pressure regulator
8046270	VEAB-B-26-D2-F-A4-1R1	Proportional-pressure regulator
8046271	VEAB-B-26-D14-F-V1-1R1	Proportional-pressure regulator
8046272	VEAB-B-26-D14-F-A4-1R1	Proportional-pressure regulator
8046299	VEAB-B-26-D9-Q4-V1-1R1	Proportional-pressure regulator
8046300	VEAB-B-26-D9-Q4-A4-1R1	Proportional-pressure regulator

8046301	VEAB-B-26-D12-Q4-V1-1R1	Proportional-pressure regulator
8046302	VEAB-B-26-D12-Q4-A4-1R1	Proportional-pressure regulator
8046303	VEAB-B-26-D7-Q4-V1-1R1	Proportional-pressure regulator
8046304	VEAB-B-26-D7-Q4-A4-1R1	Proportional-pressure regulator
8046305	VEAB-B-26-D2-Q4-V1-1R1	Proportional-pressure regulator
8046306	VEAB-B-26-D2-Q4-A4-1R1	Proportional-pressure regulator
8046307	VEAB-B-26-D14-Q4-V1-1R1	Proportional-pressure regulator
8046308	VEAB-B-26-D14-Q4-A4-1R1	Proportional-pressure regulator
5092910	VEMD-L-14-20-D2-M5-1-LS1-V1-S10-R5-CS007	Proportional-pressure regulator
4869520	VEMD-V1-L-14-20-D2-M5-1-LS1-V1-S10-R5-CS007	Proportional-pressure regulator

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
710934	VEMC/VEMA	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
571079	VEMC-BS-3-B-9-D1-W9-22T1	Piezo valve
572581	VEMC-BS-26-B-9-D2-W9-22D1	Piezo valve
563303	VEMA-LS-8N3-9-D1-M5-22D9	Valve terminal

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
722645	VOMP/VEMP	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
563757	VOMP-MFTP-P33C-M-F13-T1	proportional directional control valve
557952	VOMP-HFTP-P33C-M-F16-T1	proportional directional control valve
8064292	VEMP-BS-3-13-D7-F-22T1	Piezo valve
8064293	VEMP-BS-3-13-D7-F-22T1-P30	Piezo valve
8064294	VEMP-BS-3-16-D7-F-28T1	Piezo valve
8064295	VEMP-BS-3-16-D7-F-28T1-P30	Piezo valve
8065738	VEMP-BS-3-16-D5-F-28T1	Piezo valve
8065739	VEMP-BS-3-16-D5-F-28T1-P30	Piezo valve
8065734	VEMP-BS-3-13-D19-F-28T1	Piezo valve
8065735	VEMP-BS-3-13-D19-F-28T1-P30	Piezo valve
8065736	VEMP-BS-3-13-D2-F-28T1	Piezo valve
8065737	VEMP-BS-3-13-D2-F-28T1-P30	Piezo valve
8064292	VEMP-BS-3-13-D7-F-22T1	Piezo valve

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
4525039	VEAE	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
2797189	VEAE-BE	Piezo valve
2797188	VEAE-BB	Piezo valve

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
2069206	VEVM	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
8047503	VEVM-S1-27-B-C-F-1T1L	valve
8047502	VTEM...	Motion terminal

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
1794119	VEAA	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
8046892	VEAA-B-3-D2-F-V1-1R1	Proportional-pressure regulator
8046893	VEAA-B-3-D2-F-A4-1R1	Proportional-pressure regulator
8046894	VEAA-B-3-D9-F-V1-1R1	Proportional-pressure regulator
8046895	VEAA-B-3-D9-F-A4-1R1	Proportional-pressure regulator
8046896	VEAA-B-3-D11-F-V1-1R1	Proportional-pressure regulator
8046897	VEAA-B-3-D11-F-A4-1R1	Proportional-pressure regulator
8046901	VEAA-B-3-D2-Q4-V1-1R1	Proportional-pressure regulator
8046902	VEAA-B-3-D2-Q4-A4-1R1	Proportional-pressure regulator
8046903	VEAA-B-3-D9-Q4-V1-1R1	Proportional-pressure regulator
8046904	VEAA-B-3-D9-Q4-A4-1R1	Proportional-pressure regulator
8046905	VEAA-B-3-D11-Q4-V1-1R1	Proportional-pressure regulator
8046906	VEAA-B-3-D11-Q4-A4-1R1	Proportional-pressure regulator

Part no.	Festo type	Description	SVHC > 0,1m%	CAS-Nr.
704749	VEMR	Piezo bender	lead zirconate titanate	12626-81-2

The piezo bender is installed in products below:

Part no.	Festo type	Description
8046263	VEAB-B-26-D9-F-V1-1R1	Proportional-pressure regulator
8046264	VEAB-B-26-D9-F-A4-1R1	Proportional-pressure regulator
8046265	VEAB-B-26-D12-F-V1-1R1	Proportional-pressure regulator
8046266	VEAB-B-26-D12-F-A4-1R1	Proportional-pressure regulator
8046267	VEAB-B-26-D7-F-V1-1R1	Proportional-pressure regulator
8046268	VEAB-B-26-D7-F-A4-1R1	Proportional-pressure regulator
8046269	VEAB-B-26-D2-F-V1-1R1	Proportional-pressure regulator
8046270	VEAB-B-26-D2-F-A4-1R1	Proportional-pressure regulator
8046271	VEAB-B-26-D14-F-V1-1R1	Proportional-pressure regulator
8046272	VEAB-B-26-D14-F-A4-1R1	Proportional-pressure regulator
8046299	VEAB-B-26-D9-Q4-V1-1R1	Proportional-pressure regulator
8046300	VEAB-B-26-D9-Q4-A4-1R1	Proportional-pressure regulator
8046301	VEAB-B-26-D12-Q4-V1-1R1	Proportional-pressure regulator

8046302	VEAB-B-26-D12-Q4-A4-1R1	Proportional-pressure regulator
8046303	VEAB-B-26-D7-Q4-V1-1R1	Proportional-pressure regulator
8046304	VEAB-B-26-D7-Q4-A4-1R1	Proportional-pressure regulator
8046305	VEAB-B-26-D2-Q4-V1-1R1	Proportional-pressure regulator
8046306	VEAB-B-26-D2-Q4-A4-1R1	Proportional-pressure regulator
8046307	VEAB-B-26-D14-Q4-V1-1R1	Proportional-pressure regulator
8046308	VEAB-B-26-D14-Q4-A4-1R1	Proportional-pressure regulator

Yours sincerely