

Erklärung

TN 5703825Datum
20. Juli 2022

über den Einsatz von nichtelektrischen Geräten in explosionsgefährdeten Bereichen der Zonen 1, 2, 21, und 22.

Die am Ende dieser Erklärung aufgelisteten

Manometer
Präzisionsmanometer
Flanschmanometer
Präzisions-Flanschmanometer
Vakuummeter
Manometer-BS

fallen nicht unter den Anwendungsbereich der Richtlinie 2014/34/EU.

Durch eine Zündgefahrenanalyse wurde nachgewiesen, dass diese Geräte keine eigenen potenziellen Zündquellen aufweisen.

Sie können bei bestimmungsgemäßer Verwendung in explosionsgefährdeten Bereichen der Zonen 1, 2, 21 und 22 eingesetzt werden.

Die technischen Daten der genannten Geräte, sowie die nachstehenden Hinweise **müssen** beachtet werden:

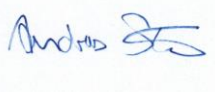
- Die Geräte dürfen nur mit Druckluft betrieben werden.
Das Ansaugen der Druckluft darf nicht aus explosionsgefährdeten Bereichen erfolgen.
- Ausströmende Abluft oder Leckage kann abgelagerten Staub aufwirbeln und eine explosionsfähige Staubatmosphäre hervorrufen.
- Beziehen Sie die metallischen Komponenten der Geräte mit in den Potentialausgleich der Anlage ein.
- Verhindern Sie elektrostatische Aufladung durch geeignete Installations- und Reinigungsmaßnahmen.
- Stark ladungserzeugende Prozesse können nicht-leitende Schichten und Überzüge auf metallischen Oberflächen aufladen.
- Verwenden Sie das Gerät nur im bestimmungsgemäßen Betrieb gemäß Herstellerangaben, EN837 und dieser Erklärung.
- Installation, Wartung und Betrieb nur durch qualifiziertes Fachpersonal zulässig
- Zulässige Umgebungstemperatur: -20 ... +60 °C
- Zulässige Medientemperatur: -20 ... +60 °C

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- Eine zusätzliche Kompressionswärme (adiabatische Kompression) kann durch schnelle Druckänderungen bei Gasen entstehen.
Diese ist bei der Bestimmung der max. (Oberflächen-)Temperatur zu beachten und es ist ggf. die Druckänderungsgeschwindigkeit zu reduzieren, um die Grenzwerte nicht zu überschreiten.
- Keine Druckstöße / Stoßwellen.
- Keine Schwingungen.
- Die Lesbarkeit der Kennzeichnung muss während der Dauer der Verwendung, jedoch mindestens während eines Prüfzeitraums von drei Jahren kontrolliert werden.

i.A. 

Steffen Wägerle-Engler
Leitung Product Certification

i.A. 

Andreas Stark
Product Certification

Liste der bewerteten Geräte:

Materialnummer	Bezeichnung
384840	*AE-MS4/6-1.6-MPA
8079907	213.53.0XX
687932	D:TP-MA-40-10-M5
540781	DPA-40-10-MA-SET
540782	DPA-40-16-MA-SET
540794	DRUCK 111.12.050 16 BAR G1/4B
159596	FMA-40-10-1/4-EN
159597	FMA-40-16-1/4-EN
525721	FMA-40-16-1/4-EN RT8
8037526	FMA-40-2,5-1/4-EN-CS
571508	FMA-40-2,5-1/4-EN-SA
8037527	FMA-40-4-1/4-EN-CS
571509	FMA-40-4-1/4-EN-SA
8037528	FMA-40-6-1/4-EN-CS
571510	FMA-40-6-1/4-EN-SA
159599	FMA-50-10-1/4-EN
159600	FMA-50-16-1/4-EN
159598	FMA-50-2,5-1/4-EN
26048	FMA-50-6 -SA
159602	FMA-63-10-1/4-EN
8030846	FMA-63-10-1/4-EN-RG
8030847	FMA-63-10-1/4-EN-RG
549203	FMA-63-10-1/4-EN-SA
159603	FMA-63-16-1/4-EN
159601	FMA-63-2,5-1/4-EN
8030848	FMA-63-2,5-1/4-EN-RG
161129	FMAP-63-1-1/4-EN
161131	FMAP-63-16-1/4-EN
162843	FMAP-63-4-1/4-EN
161130	FMAP-63-6-1/4-EN
537812	FVAM-40-V1/0-G1/8-EN
537813	FVAM-63-V1/0-G1/4-EN
27856	MA -50-10-1/4-EN -SA
680890	MA- 63-16-1/8 -SA
739128	MA-26-145-QSP10-PSI
739129	MA-26-232-QSP10-PSI
739127	MA-26-87-QSP10-PSI
526324	MA-27-1,0-M5-MPA
526323	MA-27-10-M5
527405	MA-27-160-M5-PSI
541733	MA-27-16-R1/8
1401420	MA-27-2,5-M5-SA
541734	MA-27-25-R1/8
8063226	MA-27-60-M5-PSI-CS
577080	MA-27-M5-10-RG-SA
702619	MA-34-10-QSP10-DM
714401	MA-34-145-QSP10-PSI-DM
702620	MA-34-16-QSP10-DM
714402	MA-34-232-QSP10-PSI-DM
698290	MA-34-6-QSP10:DMW
716175	MA-34-6-QSP10:DMW -SA
704643	MA-34-6-QSP10-DM
714400	MA-34-87-QSP10-PSI-DM

Materialnummer	Bezeichnung
8060422	MA-40-0,25-R1/8-MPA-E-RG-CS
526778	MA-40-1,0-R1/8-MPA-E-RG
192733	MA-40-1,6-G1/8-MPA
526779	MA-40-1,6-R1/8-MPA-E-RG
359874	MA-40-10-1/8
191242	MA-40-10-1/8 -SA
692429	MA-40-10-1/8-DB
701835	MA-40-10-1/8-DB -SA
701998	MA-40-10-1/8-DB:MZD
162835	MA-40-10-1/8-EN
747182	MA-40-10-1/8-EN-SA
342979	MA-40-10-1/8-SA
183900	MA-40-10-G1/4-EN
576207	MA-40-10-G18-E-RG-K-SA
8070386	MA-40-10-NPT1/4-EN-CS
8070387	MA-40-10-NPT1/8-EN-CS
187079	MA-40-10-R1/4-EN
549439	MA-40-10-R1/8 -SA
525725	MA-40-10-R1/8-E-RG
192831	MA-40-12-1/8-EN -SA
526786	MA-40-145-R1/8-PSI-E-RG
541240	MA-40-150-R1/8-PSIERG-SA
345395	MA-40-16-1/8
529046	MA-40-16-1/8-EN-DPA
183901	MA-40-16-G1/4-EN
576211	MA-40-16-G14-E-RG-K-SA
576208	MA-40-16-G18-E-RG-K-SA
187080	MA-40-16-R1/4-EN
525726	MA-40-16-R1/8-E-RG
541231	MA-40-16-R1/8-PSI-ERG-SA
192732	MA-40-1-G1/8-MPA
576205	MA-40-1-G18-E-RG-K-SA
680520	MA-40-2,5-1/8 -SA
546963	MA-40-2,5-R1/8-E-RG
526787	MA-40-232-R1/8-PSI-E-RG
526167	MA-40-25-1/8-EN
183902	MA-40-25-G1/4-EN
8071276	MA-40-30-1/4NPT-PSI-EN-CS
8060421	MA-40-36-R1/8-PSI-E-RG-CS
541234	MA-40-36-R1/8-PSI-ERG-SA
8079414	MA-40-4-G1/4-E-RG-CS
576206	MA-40-4-G18-E-RG-K-SA
541237	MA-40-60-R1/8-PSI-ERG-SA
701997	MA-40-6-1/8-DB:MZD
183899	MA-40-6-G1/4-EN
187078	MA-40-6-R1/4-EN
8044296	MA-40-6-R1/8-E-RG-CS
526780	MA-50-0,25-R1/4-MPA-E-RG
526781	MA-50-1,0-R1/4-MPA-E-RG
8060424	MA-50-1,0-R1/4-MPA-E-RG-CS
192735	MA-50-1,6-G1/4-MPA
526782	MA-50-1,6-R1/4-MPA-E-RG
359873	MA-50-10-1/4
162838	MA-50-10-1/4-EN

Materialnummer	Bezeichnung
576210	MA-50-10-G14-E-RG-K-SA
542109	MA-50-10-R1/4-EN -SA
548963	MA-50-10-R1/4-EN -SA
525728	MA-50-10-R1/4-E-RG
8077534	MA-50-10-R1/4-E-RG-PSI-CS
538472	MA-50-10-R1/8-E-RG -SA
526789	MA-50-145-R1/4-PSI-E-RG
8060423	MA-50-145-R1/4-PSI-E-RG-CS
541241	MA-50-150-R1/4-PSIERG-SA
356759	MA-50-16-1/4
162839	MA-50-16-1/4-EN
192282	MA-50-16-1/4-EN -SA
549374	MA-50-16-R1/4 -SA
525729	MA-50-16-R1/4-E-RG
541232	MA-50-16-R1/4-PSI-ERG-SA
192734	MA-50-1-G1/4-MPA
162837	MA-50-2,5-1/4-EN
525727	MA-50-2,5-R1/4-E-RG
576209	MA-50-2.5-G14-E-RG-K-SA
8075117	MA-50-2000-7/16-PSI-CS
5035198	MA-50-200-R1/4-PSI-CS
526790	MA-50-232-R1/4-PSI-E-RG
576212	MA-50-25-G14-E-RG-K-SA
526788	MA-50-36-R1/4-PSI-E-RG
541235	MA-50-36-R1/4-PSI-ERG-SA
538471	MA-50-4-R1/8-E-RG -SA
576213	MA-50-60-G14-E-RG-K-SA
541238	MA-50-60-R1/4-PSI-ERG-SA
8048658	MA-50-6-R1/4-E-RG-CS
162844	MA-63-1-1/4-EN
541242	MA-63-150-R1/4-PSIERG-SA
576745	MA-63-400-G14-U-E-RG-K-SA
8072222	MA-63-600-1/4NPT-U-PSI-EN-CS
541239	MA-63-60-R1/4-PSI-ERG-SA
670745	MAE-MS12-1.0-MPA
670746	MAE-MS12-1.6-MPA
670740	MAE-MS12-10-BAR
670742	MAE-MS12-145-PSI
653851	MAE-MS12-16-BAR
670747	MAE-MS12-2.5-MPA
670743	MAE-MS12-232-PSI
670741	MAE-MS12-25-BAR
670744	MAE-MS12-363-PSI
701614	MAE-MS4/6-0,6-MPA-RG
384838	MAE-MS4/6-0.6-MPA
701615	MAE-MS4/6-1,0-MPA-RG
701616	MAE-MS4/6-1,6-MPA-RG
384839	MAE-MS4/6-1.0-MPA
381034	MAE-MS4/6-10-BAR
719625	MAE-MS4/6-10-BAR -SA
701608	MAE-MS4/6-10-BAR-RG
384835	MAE-MS4/6-145-PSI
381035	MAE-MS4/6-16-BAR
701609	MAE-MS4/6-16-BAR-RG

Materialnummer	Bezeichnung
384836	MAE-MS4/6-232-PSI
381036	MAE-MS4/6-25-BAR
381033	MAE-MS4/6-6-BAR
689544	MAE-MS4/6-6-BAR -SA
701607	MAE-MS4/6-6-BAR-RG
384834	MAE-MS4/6-87-PSI
692758	MAE-MS4-10-BAR-KD
714391	MAE-MS4-145-PSI-KD
692759	MAE-MS4-16-BAR-KD
1051802	MAE-MS4-2,5-MPA-RG
714392	MAE-MS4-232-PSI-KD
1051801	MAE-MS4-25-BAR-RG
759711	MAE-MS4-4-BAR-RG-SA
692757	MAE-MS4-6-BAR-KD
714390	MAE-MS4-87-PSI-KD
701617	MAE-MS6-0,6-MPA-RG
701618	MAE-MS6-1,0-MPA-RG
670910	MAE-MS6-1,6-MPA
701619	MAE-MS6-1,6-MPA-RG
670901	MAE-MS6-10-BAR
692761	MAE-MS6-10-BAR-KD
701611	MAE-MS6-10-BAR-RG
670905	MAE-MS6-145-PSI
714394	MAE-MS6-145-PSI-KD
670902	MAE-MS6-16-BAR
692762	MAE-MS6-16-BAR-KD
701612	MAE-MS6-16-BAR-RG
670911	MAE-MS6-2,5-MPA
701620	MAE-MS6-2,5-MPA-RG
670906	MAE-MS6-232-PSI
714395	MAE-MS6-232-PSI-KD
670903	MAE-MS6-25-BAR
692763	MAE-MS6-25-BAR-KD
701613	MAE-MS6-25-BAR-RG
714396	MAE-MS6-363-PSI-KD
670900	MAE-MS6-6-BAR
692760	MAE-MS6-6-BAR-KD
701610	MAE-MS6-6-BAR-RG
714393	MAE-MS6-87-PSI-KD
720086	MAP-26-10-QSP10-DM
161126	MAP-40-1-1/8-EN
161128	MAP-40-16-1/8-EN
162842	MAP-40-4-1/8-EN
161127	MAP-40-6-1/8-EN
557796	MAP-40-6-1/8-EN-SA
4622157	PAGL-HP3-63-16-G14-S-CS
1166938	PAGL-HP3-63-60-G14
1908519	PAGL-HP3-63-60-G14-RC
4622149	PAGL-HP3-63-60-G14-S-CS
4622151	PAGL-HP3-63-60-G14-S-CS
4622154	PAGL-HP3-63-60-G14-S-CS
563735	PAGN-26-1.6M-P10
741307	PAGN-26-1.6M-P10
685174	PAGN-26-10-P10

Materialnummer	Bezeichnung
543488	PAGN-26-10-P10
8090378	PAGN-26-10-P10-RG
8037525	PAGN-26-10-P10-RG-CS
563732	PAGN-26-145P-P10
741304	PAGN-26-145P-P10
685175	PAGN-26-16-P10
543487	PAGN-26-16-P10
8044532	PAGN-26-16-P10-RG-CS
563736	PAGN-26-1M-P10
741308	PAGN-26-1M-P10
8072417	PAGN-26-1M-P10-RG-CS
563731	PAGN-26-232P-P10
741303	PAGN-26-232P-P10
741309	PAGN-40-1.6M-P10
563737	PAGN-40-1.6M-P10
8003638	PAGN-40-10-G14
8003636	PAGN-40-10-G18
705656	PAGN-40-10-P10
548009	PAGN-40-10-P10
2849914	PAGN-40-10-R18-1.6
563734	PAGN-40-145P-P10
741306	PAGN-40-145P-P10
8003639	PAGN-40-16-G14
8003637	PAGN-40-16-G18
548010	PAGN-40-16-P10
705655	PAGN-40-16-P10
575777	PAGN-40-1-G18-SA
741310	PAGN-40-1M-P10
563738	PAGN-40-1M-P10
563733	PAGN-40-232P-P10
741305	PAGN-40-232P-P10
8071480	PAGN-40-4-R1/8-1.6-RG-CS
3545916	PAGN-50-16-G14-SA
537810	VAM-40-V1/0-R1/8-EN
547842	VAM-40-V1/0-R1/8-E-RG
8044454	VAM-63-V1/0-G1/4-E-RG-K-CS
537811	VAM-63-V1/0-R1/4-EN
547843	VAM-63-V1/0-R1/4-E-RG
537814	VAM-63-V1/9-R1/4-EN

Declaration

PN 5703825

Date
July, 20th 2022

regarding the operation of non-electrical devices in hazardous locations, that means explosive atmospheres zones 1, 2, 21 and 22.

At the end of this declaration listed

Pressure gauges
Precision pressure gauges
Flanged pressure gauges
Precision flanged pressure gauges
Vacuum gauges
Pressure gauges sets

are not covered by the scope of the EC directive 2014/34/EU.

Following a risk assessment, it has been established that the basic products themselves contain no potential sources of ignition.

If used as intended, they can be operated in potentially hazardous areas, zones 1, 2, 21 and 22.

The technical data the mentioned devices, as well as the following instructions, **have to be** adhered to:

- The devices may only be operated with compressed air. The intake of compressed air must not take place in potentially explosive areas.
- Out-flowing exhaust air and leaks may stir up dust deposits and may subsequently result in a potentially explosive atmosphere.
- To avoid electrostatic charges and potential differences, all metal parts must be connected to the system's equipotential bonding.
- Prevent electrostatic discharges by means of suitable installation and cleaning measures.
- Processes that generate strong charges can result in nonconductive layers and coatings on metal surfaces becoming charged.
- Use the device only for its intended use in accordance with the manufacturer's specifications, EN837 and this declaration.
- Installation, maintenance and operation only by qualified personnel
- Permissible ambient temperature: -20 ... +60 °C
- Permissible media temperature: -20 ... +60 °C

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Germany

- Additional compression heat (adiabatic compression) can result from rapid pressure changes in gases. This must be taken into account when determining the maximum (surface) temperature and, if necessary, the rate of pressure change must be reduced in order not to exceed the limit values.
- No pressure surges / shock waves
- No vibrations
- The legibility of the marking must be maintained during the period of use, but must be checked at least during a three-year inspection period.

i.A.



Steffen Wägerle-Engler
Head of Product Certification

i.A.



Andreas Stark
Product Certification

List of evaluated devices:

Materialno.:	Description
384840	*AE-MS4/6-1.6-MPA
8079907	213.53.0XX
687932	D:TP-MA-40-10-M5
540781	DPA-40-10-MA-SET
540782	DPA-40-16-MA-SET
540794	DRUCK 111.12.050 16 BAR G1/4B
159596	FMA-40-10-1/4-EN
159597	FMA-40-16-1/4-EN
525721	FMA-40-16-1/4-EN RT8
8037526	FMA-40-2,5-1/4-EN-CS
571508	FMA-40-2,5-1/4-EN-SA
8037527	FMA-40-4-1/4-EN-CS
571509	FMA-40-4-1/4-EN-SA
8037528	FMA-40-6-1/4-EN-CS
571510	FMA-40-6-1/4-EN-SA
159599	FMA-50-10-1/4-EN
159600	FMA-50-16-1/4-EN
159598	FMA-50-2,5-1/4-EN
26048	FMA-50-6 -SA
159602	FMA-63-10-1/4-EN
8030846	FMA-63-10-1/4-EN-RG
8030847	FMA-63-10-1/4-EN-RG
549203	FMA-63-10-1/4-EN-SA
159603	FMA-63-16-1/4-EN
159601	FMA-63-2,5-1/4-EN
8030848	FMA-63-2,5-1/4-EN-RG
161129	FMAP-63-1-1/4-EN
161131	FMAP-63-16-1/4-EN
162843	FMAP-63-4-1/4-EN
161130	FMAP-63-6-1/4-EN
537812	FVAM-40-V1/0-G1/8-EN
537813	FVAM-63-V1/0-G1/4-EN
27856	MA -50-10-1/4-EN -SA
680890	MA- 63-16-1/8 -SA
739128	MA-26-145-QSP10-PSI
739129	MA-26-232-QSP10-PSI
739127	MA-26-87-QSP10-PSI
526324	MA-27-1,0-M5-MPA
526323	MA-27-10-M5
527405	MA-27-160-M5-PSI
541733	MA-27-16-R1/8
1401420	MA-27-2,5-M5-SA
541734	MA-27-25-R1/8
8063226	MA-27-60-M5-PSI-CS
577080	MA-27-M5-10-RG-SA
702619	MA-34-10-QSP10-DM
714401	MA-34-145-QSP10-PSI-DM
702620	MA-34-16-QSP10-DM
714402	MA-34-232-QSP10-PSI-DM
698290	MA-34-6-QSP10:DMW
716175	MA-34-6-QSP10:DMW -SA
704643	MA-34-6-QSP10-DM
714400	MA-34-87-QSP10-PSI-DM

Materialno.:	Description
8060422	MA-40-0,25-R1/8-MPA-E-RG-CS
526778	MA-40-1,0-R1/8-MPA-E-RG
192733	MA-40-1,6-G1/8-MPA
526779	MA-40-1,6-R1/8-MPA-E-RG
359874	MA-40-10-1/8
191242	MA-40-10-1/8 -SA
692429	MA-40-10-1/8-DB
701835	MA-40-10-1/8-DB -SA
701998	MA-40-10-1/8-DB:MZD
162835	MA-40-10-1/8-EN
747182	MA-40-10-1/8-EN-SA
342979	MA-40-10-1/8-SA
183900	MA-40-10-G1/4-EN
576207	MA-40-10-G18-E-RG-K-SA
8070386	MA-40-10-NPT1/4-EN-CS
8070387	MA-40-10-NPT1/8-EN-CS
187079	MA-40-10-R1/4-EN
549439	MA-40-10-R1/8 -SA
525725	MA-40-10-R1/8-E-RG
192831	MA-40-12-1/8-EN -SA
526786	MA-40-145-R1/8-PSI-E-RG
541240	MA-40-150-R1/8-PSIERG-SA
345395	MA-40-16-1/8
529046	MA-40-16-1/8-EN-DPA
183901	MA-40-16-G1/4-EN
576211	MA-40-16-G14-E-RG-K-SA
576208	MA-40-16-G18-E-RG-K-SA
187080	MA-40-16-R1/4-EN
525726	MA-40-16-R1/8-E-RG
541231	MA-40-16-R1/8-PSI-ERG-SA
192732	MA-40-1-G1/8-MPA
576205	MA-40-1-G18-E-RG-K-SA
680520	MA-40-2,5-1/8 -SA
546963	MA-40-2,5-R1/8-E-RG
526787	MA-40-232-R1/8-PSI-E-RG
526167	MA-40-25-1/8-EN
183902	MA-40-25-G1/4-EN
8071276	MA-40-30-1/4NPT-PSI-EN-CS
8060421	MA-40-36-R1/8-PSI-E-RG-CS
541234	MA-40-36-R1/8-PSI-ERG-SA
8079414	MA-40-4-G1/4-E-RG-CS
576206	MA-40-4-G18-E-RG-K-SA
541237	MA-40-60-R1/8-PSI-ERG-SA
701997	MA-40-6-1/8-DB:MZD
183899	MA-40-6-G1/4-EN
187078	MA-40-6-R1/4-EN
8044296	MA-40-6-R1/8-E-RG-CS
526780	MA-50-0,25-R1/4-MPA-E-RG
526781	MA-50-1,0-R1/4-MPA-E-RG
8060424	MA-50-1,0-R1/4-MPA-E-RG-CS
192735	MA-50-1,6-G1/4-MPA
526782	MA-50-1,6-R1/4-MPA-E-RG
359873	MA-50-10-1/4
162838	MA-50-10-1/4-EN

Materialno.:	Description
576210	MA-50-10-G14-E-RG-K-SA
542109	MA-50-10-R1/4-EN -SA
548963	MA-50-10-R1/4-EN -SA
525728	MA-50-10-R1/4-E-RG
8077534	MA-50-10-R1/4-E-RG-PSI-CS
538472	MA-50-10-R1/8-E-RG -SA
526789	MA-50-145-R1/4-PSI-E-RG
8060423	MA-50-145-R1/4-PSI-E-RG-CS
541241	MA-50-150-R1/4-PSIERG-SA
356759	MA-50-16-1/4
162839	MA-50-16-1/4-EN
192282	MA-50-16-1/4-EN -SA
549374	MA-50-16-R1/4 -SA
525729	MA-50-16-R1/4-E-RG
541232	MA-50-16-R1/4-PSI-ERG-SA
192734	MA-50-1-G1/4-MPA
162837	MA-50-2,5-1/4-EN
525727	MA-50-2,5-R1/4-E-RG
576209	MA-50-2.5-G14-E-RG-K-SA
8075117	MA-50-2000-7/16-PSI-CS
5035198	MA-50-200-R1/4-PSI-CS
526790	MA-50-232-R1/4-PSI-E-RG
576212	MA-50-25-G14-E-RG-K-SA
526788	MA-50-36-R1/4-PSI-E-RG
541235	MA-50-36-R1/4-PSI-ERG-SA
538471	MA-50-4-R1/8-E-RG -SA
576213	MA-50-60-G14-E-RG-K-SA
541238	MA-50-60-R1/4-PSI-ERG-SA
8048658	MA-50-6-R1/4-E-RG-CS
162844	MA-63-1-1/4-EN
541242	MA-63-150-R1/4-PSIERG-SA
576745	MA-63-400-G14-U-E-RG-K-SA
8072222	MA-63-600-1/4NPT-U-PSI-EN-CS
541239	MA-63-60-R1/4-PSI-ERG-SA
670745	MAE-MS12-1.0-MPA
670746	MAE-MS12-1.6-MPA
670740	MAE-MS12-10-BAR
670742	MAE-MS12-145-PSI
653851	MAE-MS12-16-BAR
670747	MAE-MS12-2.5-MPA
670743	MAE-MS12-232-PSI
670741	MAE-MS12-25-BAR
670744	MAE-MS12-363-PSI
701614	MAE-MS4/6-0,6-MPA-RG
384838	MAE-MS4/6-0.6-MPA
701615	MAE-MS4/6-1,0-MPA-RG
701616	MAE-MS4/6-1,6-MPA-RG
384839	MAE-MS4/6-1.0-MPA
381034	MAE-MS4/6-10-BAR
719625	MAE-MS4/6-10-BAR -SA
701608	MAE-MS4/6-10-BAR-RG
384835	MAE-MS4/6-145-PSI
381035	MAE-MS4/6-16-BAR
701609	MAE-MS4/6-16-BAR-RG

Materialno.:	Description
384836	MAE-MS4/6-232-PSI
381036	MAE-MS4/6-25-BAR
381033	MAE-MS4/6-6-BAR
689544	MAE-MS4/6-6-BAR -SA
701607	MAE-MS4/6-6-BAR-RG
384834	MAE-MS4/6-87-PSI
692758	MAE-MS4-10-BAR-KD
714391	MAE-MS4-145-PSI-KD
692759	MAE-MS4-16-BAR-KD
1051802	MAE-MS4-2,5-MPA-RG
714392	MAE-MS4-232-PSI-KD
1051801	MAE-MS4-25-BAR-RG
759711	MAE-MS4-4-BAR-RG-SA
692757	MAE-MS4-6-BAR-KD
714390	MAE-MS4-87-PSI-KD
701617	MAE-MS6-0,6-MPA-RG
701618	MAE-MS6-1,0-MPA-RG
670910	MAE-MS6-1,6-MPA
701619	MAE-MS6-1,6-MPA-RG
670901	MAE-MS6-10-BAR
692761	MAE-MS6-10-BAR-KD
701611	MAE-MS6-10-BAR-RG
670905	MAE-MS6-145-PSI
714394	MAE-MS6-145-PSI-KD
670902	MAE-MS6-16-BAR
692762	MAE-MS6-16-BAR-KD
701612	MAE-MS6-16-BAR-RG
670911	MAE-MS6-2,5-MPA
701620	MAE-MS6-2,5-MPA-RG
670906	MAE-MS6-232-PSI
714395	MAE-MS6-232-PSI-KD
670903	MAE-MS6-25-BAR
692763	MAE-MS6-25-BAR-KD
701613	MAE-MS6-25-BAR-RG
714396	MAE-MS6-363-PSI-KD
670900	MAE-MS6-6-BAR
692760	MAE-MS6-6-BAR-KD
701610	MAE-MS6-6-BAR-RG
714393	MAE-MS6-87-PSI-KD
720086	MAP-26-10-QSP10-DM
161126	MAP-40-1-1/8-EN
161128	MAP-40-16-1/8-EN
162842	MAP-40-4-1/8-EN
161127	MAP-40-6-1/8-EN
557796	MAP-40-6-1/8-EN-SA
4622157	PAGL-HP3-63-16-G14-S-CS
1166938	PAGL-HP3-63-60-G14
1908519	PAGL-HP3-63-60-G14-RC
4622149	PAGL-HP3-63-60-G14-S-CS
4622151	PAGL-HP3-63-60-G14-S-CS
4622154	PAGL-HP3-63-60-G14-S-CS
563735	PAGN-26-1.6M-P10
741307	PAGN-26-1.6M-P10
685174	PAGN-26-10-P10

Materialno.:	Description
543488	PAGN-26-10-P10
8090378	PAGN-26-10-P10-RG
8037525	PAGN-26-10-P10-RG-CS
563732	PAGN-26-145P-P10
741304	PAGN-26-145P-P10
685175	PAGN-26-16-P10
543487	PAGN-26-16-P10
8044532	PAGN-26-16-P10-RG-CS
563736	PAGN-26-1M-P10
741308	PAGN-26-1M-P10
8072417	PAGN-26-1M-P10-RG-CS
563731	PAGN-26-232P-P10
741303	PAGN-26-232P-P10
741309	PAGN-40-1.6M-P10
563737	PAGN-40-1.6M-P10
8003638	PAGN-40-10-G14
8003636	PAGN-40-10-G18
705656	PAGN-40-10-P10
548009	PAGN-40-10-P10
2849914	PAGN-40-10-R18-1.6
563734	PAGN-40-145P-P10
741306	PAGN-40-145P-P10
8003639	PAGN-40-16-G14
8003637	PAGN-40-16-G18
548010	PAGN-40-16-P10
705655	PAGN-40-16-P10
575777	PAGN-40-1-G18-SA
741310	PAGN-40-1M-P10
563738	PAGN-40-1M-P10
563733	PAGN-40-232P-P10
741305	PAGN-40-232P-P10
8071480	PAGN-40-4-R1/8-1.6-RG-CS
3545916	PAGN-50-16-G14-SA
537810	VAM-40-V1/0-R1/8-EN
547842	VAM-40-V1/0-R1/8-E-RG
8044454	VAM-63-V1/0-G1/4-E-RG-K-CS
537811	VAM-63-V1/0-R1/4-EN
547843	VAM-63-V1/0-R1/4-E-RG
537814	VAM-63-V1/9-R1/4-EN