



8/20/19

Product Change Notification CN_2019_04

Title: Diaphragm Change Notification
Type of Change: Product Discontinuation
Products Concerned: PTFE/EPDM backed diaphragm codes: 5E, M1, 50, 52, 5A, 52R, 52E, 5L, 05, 53E
 EPDM diaphragm codes: 12, 12R, 13R, 33, 14
Effective from: See schedule table
Alternative Product: See schedule table
Description: The diaphragm codes listed above must be discontinued due to the discontinuation of the polymers which are key components in the elastomer compounds used.
Reason for Change: Thy polymer used in making the diaphragms has been discontinued.
Product Codes: 5E, M1, 50, 52, 5A, 52R, 52E, 5L, 05, 53E, 12, 12R, 13R, 33, 14
Schedule: See schedule table

To minimize the impact of the transition phase, we have secured the remaining available quantity of the discontinued polymers from the supplier. The following table is intended to help assign alternative diaphragms to the discontinued diaphragms. Each row contains the suggested replacement and the relevant dates on the basis of the discontinued code.

Discontinued diaphragm code(s)	Estimated availability of the discontinued diaphragms ①	Alternatives to the discontinued diaphragms	Availability of the new diaphragm codes 19, 54, 5M
5E	June 1, 2020	5M	September 1, 2019
M1	June 1, 2020	5M	September 1, 2019
50	June 1, 2020	5M	September 1, 2019
52	December 1, 2020	54	September 1, 2019
5A	December 1, 2020	54	September 1, 2019
52R	December 1, 2020	②	See note ②
5L	December 1, 2020	②	See note ②
05	December 1, 2020	54	September 1, 2019
53E	December 1, 2020	54	September 1, 2019
12	December 1, 2020	19 (or code 13, 17, 36)	December 1, 2019
12E	December 1, 2020	②	See note ②
12R	December 1, 2020	②	See note ②
13R	December 1, 2020	②	See note ②
33	June 1, 2020	19 (or code 3A/13, 17, 36)	December 1, 2019
14	December 1, 2020	29 (or code 13, 17, 36, 19)	January 1, 2020

① Assuming the demand remains unchanged

② These codes were only available in diaphragm size 8 and only suitable for actuator versions manufactured before 1995.
Note: Changeover to current actuator version is necessary; as a result, the current diaphragms in diaphragm size 8 are suitable.

Test and qualification

The new diaphragm types have been extensively tested in accordance with our quality standards. Test results for the new diaphragms have been compared against those of the diaphragms they are replacing, and the performance of the new diaphragms has been determined as better or equal to that of the old.

Validation documentation and technical data for the new diaphragms with the codes 19/29/54/5M can be provided on request six weeks before the introduction dates listed above. Should you have any questions, please do not hesitate to contact us.

Information about the new diaphragms



Diaphragm code 19 (EPDM)

GEMÜ's newly developed EPDM elastomer diaphragm for aseptic applications is being introduced into the market with diaphragm code 19. You can find out more information about this in the technical documentation.

Diaphragm code 29 (EPDM)

The newly developed EPDM elastomer diaphragm code 29 is the successor to the diaphragm code 14. Thanks to the technological optimization of the manufacturing processes and materials, we have developed a diaphragm with a characteristic profile that is balanced for industrial applications with diaphragm code 29.

Diaphragm code 5M (PTFE/EPDM two-piece)

The new diaphragm code 5M is constructed from the same tried and tested PTFE material used on the existing diaphragm code 5E. Therefore, the media-wetted (process contact) material is not subject to any material change.

Based on our decades of experience under real process conditions with the diaphragm code 5E, we have made specific improvements to the PTFE face on the diaphragm code 5M; where, for example, we have improved the long-term impermeability.

GEMÜ's extensive knowledge of elastomeric materials led us to develop an optimized backing diaphragm using the same material as our code 19 EPDM diaphragm for the code 5M.

Note on code 5M in diaphragm size 80:

The newly developed elastomer material in the diaphragm code 19 is used with immediate effect as the backing diaphragm (not media-wetted) for all diaphragm sizes for the diaphragm code 5M.

This means the backing material for the 5M diaphragm size 80, which has been available for some time, will be changed immediately to utilize the new code 19 backing material and will be assigned new item numbers for complete valves and spare parts.

Diaphragm code 54 (fully laminated PTFE/EPDM)

The new diaphragm code 54 is constructed from the same tried and tested PTFE film material used on the existing diaphragm code 5A (except for Cleanstar) and diaphragm code 52 which it is replacing.

The elastomer material newly developed by GEMÜ for the code 19 diaphragm is also used for the back material of the code 54 diaphragm. The construction and dimensions of the diaphragms remain identical to the code 5A/52.

Change notification

Dear Sir/Madam,

Please review this change notification within four weeks of receipt.

Your sales employee is available to answer any queries you may have.

Type of change	<input type="checkbox"/> Product change <input checked="" type="checkbox"/> Product discontinuation <input type="checkbox"/> Change of order code
Products concerned	PTFE/EPDM (two-piece): Diaphragm code 5E (MG25 – 100), M1, 50 Fully laminated PTFE/EPDM: Diaphragm code 52, 5A, 52R, 52E, 5L, 05, 53E EPDM: Diaphragm code 12, 12E, 12R, 13R, 14, 33 All valves and spare parts kits that have been equipped with these diaphragms are also affected by this.
Effective from	See schedule table
Alternative products	See schedule table
Description	The diaphragms listed above must be discontinued due to the discontinuation of polymers which are key components in the elastomer compounds we use.

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Schedule

To minimise the impact of the transition phase, we have secured the remaining available quantity of the discontinued polymers from the supplier.

The following table is intended to help assign alternative diaphragms to discontinued diaphragms. Each row contains the suggested replacement and the relevant dates on the basis of the discontinued code.

Code for the discontinued diaphragms	Estimated availability of the discontinued diaphragms*	Alternatives to the discontinued diaphragms	Availability of the new diaphragms
5E (diaphragm size 25–100)	01.06.2020	5M	01.09.2019
M1	01.06.2020	5M	01.09.2019
50	01.06.2020	5M	01.09.2019
52	01.12.2020	54	01.09.2019
5A	01.12.2020	54	01.09.2019
52R	01.12.2020	- **	-
52E	01.12.2020	- **	-
5L	01.12.2020	54	01.09.2019
05	01.12.2020	54	01.09.2019
53E	01.12.2020	- **	-
12	01.12.2020	19 (alternatively 13, 17, 36)	01.12.2019
12E	01.12.2020	- **	-
12R	01.12.2020	- **	-
13R	01.12.2020	- **	-
33	01.06.2020	19 (alternatively 3A/13, 17, 36)	01.12.2019
14	01.12.2020	29 (alternatively 13, 17, 36, 19)	01.01.2020

* Assuming that demand remains unchanged

** These codes were only available in diaphragm size 8 and only suitable for actuator versions manufactured before 1995.

Note: Changeover to current actuator version necessary; as a result, the current diaphragms in diaphragm size 8 are suitable.

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Tests and qualification

The new diaphragm types have been extensively tested in accordance with our quality standards. Test results for the new diaphragms have been compared against those of the diaphragms they are replacing and the performance of the new diaphragms has been determined as better or equal to that of the old.

Validation documentation and technical data for the new diaphragms with the codes 19/29/54/5M can be provided on request six weeks before the introduction dates above.

Should you have any queries, please do not hesitate to contact us.

Information about the new diaphragms

Diaphragm code 19 (EPDM)

GEMÜ's newly developed EPDM elastomer diaphragm for aseptic applications is being introduced into the market with diaphragm code 19. You can find out more information about this in the technical documentation.

Diaphragm code 29 (EPDM)

The newly developed EPDM elastomer diaphragm code 29 is the successor to diaphragm code 14. Thanks to technological optimisation of the manufacturing processes and materials, we have developed a diaphragm with a characteristics profile that is balanced for industrial applications with diaphragm code 29.

Diaphragm code 5M (PTFE/EPDM two-piece)

The new diaphragm code 5M is constructed from the same tried and tested PTFE material used on the existing diaphragm code 5E which it is replacing, therefore **the media-wetted (process contact) material is not subject to any material change.**

Based on our decades of experience under real process conditions with the diaphragm code 5E, we have made specific improvements to the PTFE face on the diaphragm code 5M, where for example we have improved the long-term impermeability.

GEMÜ's extensive knowledge of elastomeric materials led us to develop an optimized backing diaphragm using the same material as our code 19 EPDM diaphragm for the code 5M.

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Note on code 5M in diaphragm size 80:

The newly developed elastomer material in the diaphragm code 19 is used with immediate effect as the backing diaphragm (not media-wetted) for all diaphragm sizes for the diaphragm code 5M.

This makes it necessary to create new item numbers for the diaphragm valves and spare part diaphragms with diaphragm code 5M in diaphragm size 80 that are already for sale.

Diaphragm code 54 (fully laminated PTFE/EPDM)

The new diaphragm code 54 is constructed from the same tried and tested PTFE film material used on the existing diaphragm code 5A (except for Cleanstar) and diaphragm code 52 which it is replacing.

The elastomer material newly developed by GEMÜ for the code 19 diaphragm is also used for the back material of the code 54 diaphragm. The construction and dimensions of the diaphragms remain identical to code 5A/52.

In the case of diaphragm 5A for GEMÜ CleanStar, in addition to the changes described above (back material and code 54 instead of 5A in future), the adequate media wetted PTFE film material 3M™ Dyneon™ TFM™ Modified PTFE Powder TFM 1705 will then be used (previously 3M™ Dyneon™ TFM™ Modified PTFE Powder TFM 1700).

Your sales employee is available to answer any queries you may have.

Best regards,

GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG

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