

Traceable Diaphragms

HC4 Diaphragm Valves

HC4/016/01/10.03

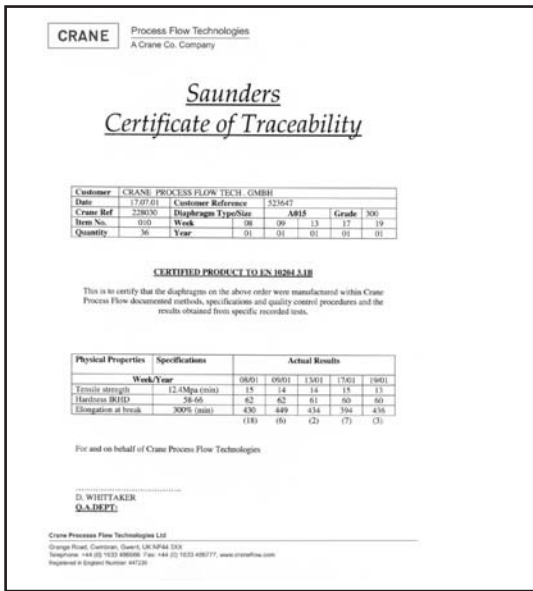
Rubber Diaphragms are manufactured from a mixture of several raw materials which are precisely weighed and mixed into a blend of compound by controlled intermixing and milling operations.

This un-cured or un-vulcanized material is then calendered into sheet form which forms the basis of the internal structure of the diaphragm.

Physical properties of the rubber are determined during the later stages of the blend process where a representative sample is subjected to the following analysis:

- Rheometer – measure of vulcanization characteristics
- Tensile
- Hardness
- Elongation

This information is available on request. See certificate example below:



From identification numbers molded onto the finished diaphragm, the manufacturing history is traced back to the initial blend.

High Purity Diaphragms

The FDA range of diaphragms follows similar processing and controls as the standard range, however the ingredients used conform to those are listed in the FDA Code of Federal Regulations, Chapter 1, Title 21, Part 177, paragraph 2600 Rubber Articles for Repeated Use, Revised April 1st 2003.

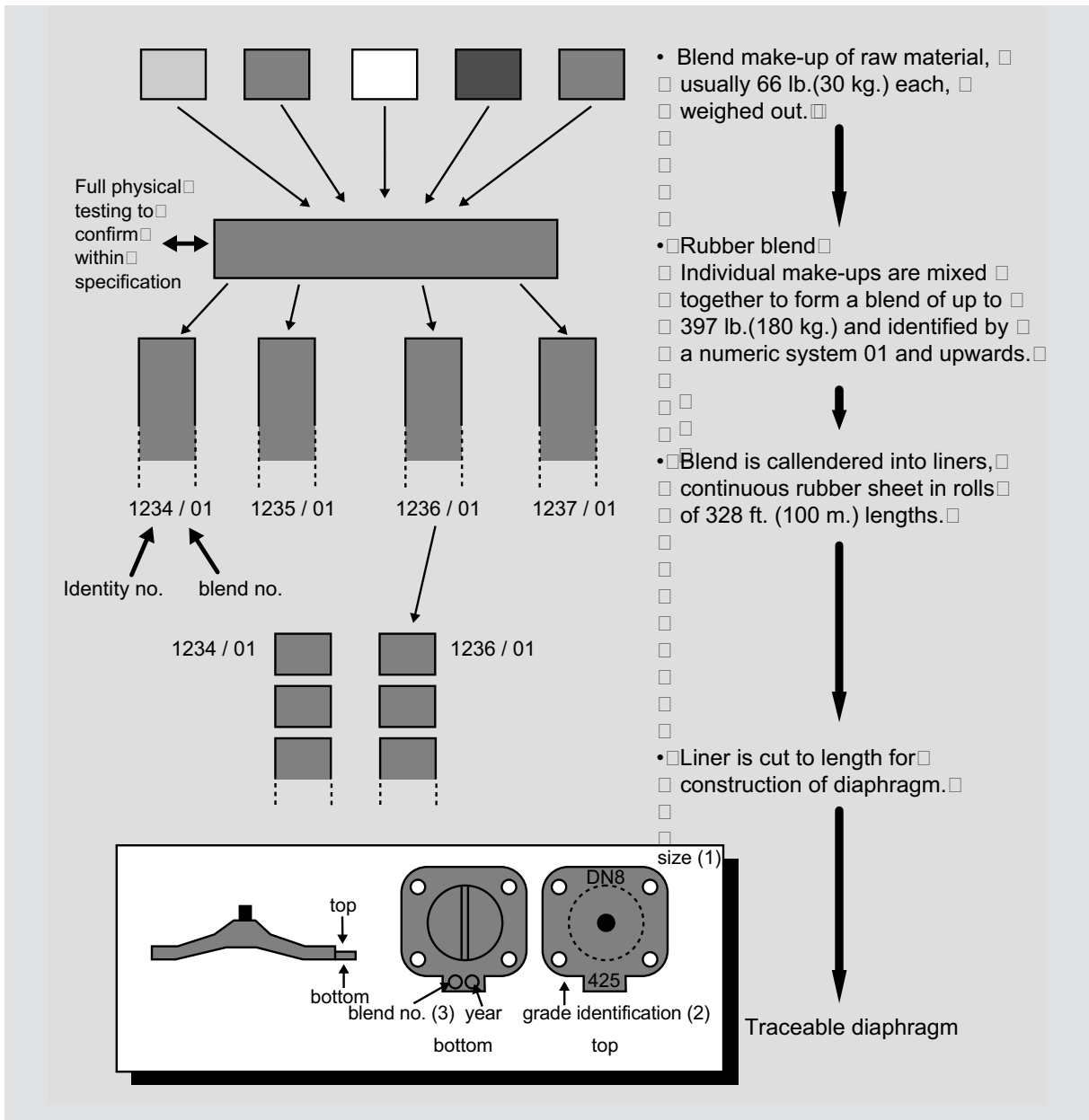
These diaphragms are available with a physical property certificate to EN10204 and a certificate of conformity to FDA.

Diaphragm Range

- 300 Butyl (IIR) Isobutylene Isoprene, black reinforced, resin cured.
- 425 Ethylene Propylene co-polymer, peroxide cured.
- E3 EPM Grade Ethylene Propylene co-polymer, peroxide cured, post cured for 144 hours at 240°F (127°C)
- 214 Standard Virgin PTFE.
- 214S TFM with high creep resistance where intermittent steam is used. TFM available with 425 backing.
- E4 EPDM, white, sulfur cured.



Traceable Diaphragms – Manufacturing Route



The complete range of diaphragms is available with fully traceable manufacturing history: Type A/AFP.

Contact Saunders or your distributor with the following details to obtain the EN10204 certificate:

1. diaphragm size
2. grade identification
3. week and year numbers (4 digits)

Rubber diaphragms are available in sizes from 0.25"-14" (DN8 to DN350) with attachment styles:

- Button - 0.50" and 0.75" (DN15 and DN20)
- Screw - 1.00" thru 14.00" (DN25 to DN350)

PTFE (214) and 214S diaphragms are available in sizes 0.25" thru 10.00" (DN8 to DN250) with attachment styles:

- Bayonet - 0.50" thru 10.00" (DN15 to DN250)
- Pure Performance - 0.25" (DN8) 4 Bolt Design:
 - Screw attachment:* Grade 425, E3, 300, 500 & 214S/425
 - Button attachment: Grade 214/425 & 214/300

*Note: Spares available with button attachment on request.

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