

Rubber parts

A wide range of rubber products for oil & gas industry

CONFIND is a manufacturer of rubber parts for the oil and gas industry, with an experience of 50 years in this field.

CONFIND made within one of its workshops, a wide range of rubber products for the oil, mining and drilling. CONFIND assimilated all kinds of rubber components required for domestic market of oil and gas industry. Department of mechanical rubber has implemented quality management system ISO 9001: 2000.

This department has the machines and technologies required by the fabrication of the following product categories:

- machines for preparing rubber compound
- machines for textile impregnation with rubber
- hydraulic presses, ovens
- blasting machines for metal parts preparation

The endowments of the workshop enables fabrication of gaskets, from $\varnothing 2+1200$ mm and weight 0,001+100 kg. Gaskets are produced using existing molds, molds designed and fabricated by CONFIND, or molds provided by the customer.

CONFIND is engaged in a permanent development process in terms of rubber compounds, in order to satisfy field conditions.

Rubber parts

In order to fulfill Client's requirements CONFIND fabricates a wide range of rubber compounds based on internally developed recipes, using almost all rubber types, within a hardness interval of 40+95 ShA. Properties of our compounds satisfy or exceed the requirements of national and international standards.

Main parts manufactured by CONFIND

1.1 Pneumatic clutches type AB:

- 8 standard dimensions, AB 160÷AB 700
- material: NR elastomer with chord viscose insertion
- shoe friction made from NON-ASBESTOUS material
- working pressure: 7÷10 daN/cm²
- friction coefficient=0,44
- working temperature: -50÷70°C

1.2 Detachable bellows for pneumatic clutches type AB:

- 4 standard tipodimensions, AB 300; AB 500; AB 700; AB 1070
- material: NR elastomer with chord viscose insertion
- shoe friction made from NON-ASBESTOUS material
- working pressure: 7÷10 daN/cm²
- friction coefficient=0,44
- working temperature: -50÷70°C

2. . Gaskets for pumps 2 PN 160÷2 PN 1300 cemeting trucks ACF 350÷700:

- ex. Monobloc pistons; mission piston; pulsation dampening bellow AP 210-350, valve seals, stuffing box seals etc.
- material: NBR, HNBR rubber with textile insertion
- working temperature: -30÷120°C



3. Type V, U, UE, LE sleeves and scraping rings for drilling and workover rigs as well as for various hydraulic machines:

- material: NBR, HNBR, FPM, NBR rubber with textile insertion
- working temperature: $-30\div 120^{\circ}\text{C}$; $-20\div 230^{\circ}\text{C}$
- hardness: $60^{\circ}\text{ShA}\div 95^{\circ}\text{ShA}$

4. „O” rings for hydraulic sealing:

- Dimensions of the section $1,6\div 12$ mm and internal diameter up to 900 mm
- material: NBR, HNBR, FPM, siliconic rubber
- working temperature: $-30\div 120^{\circ}\text{C}$; $-20\div 230^{\circ}\text{C}$
- hardness: $60^{\circ}\text{ShA}\div 90^{\circ}\text{ShA}$

5. Seals cup F for plugs $4\frac{1}{2}\div 14\frac{3}{4}$:

- material: NBR rubber
- working temperature: $-30\div 120^{\circ}\text{C}$
- hardness: 75°ShA

6. Gaskets for pakers POSITEST, LOK-SET, HOVA $4\frac{1}{2}\div 9\frac{5}{8}$:

- material: NBR, HNBR, FPM rubber
- working temperature: $-30\div 120^{\circ}\text{C}$; $-20\div 230^{\circ}\text{C}$
- hardness: $70^{\circ}\text{ShA}\div 90^{\circ}\text{ShA}$

7. BETTIS grips for drill collars $2\frac{7}{8}\div 5$ in

- material: NBR rubber
- working temperature: $-30\div 100^{\circ}\text{C}$
- hardness: 65°ShA

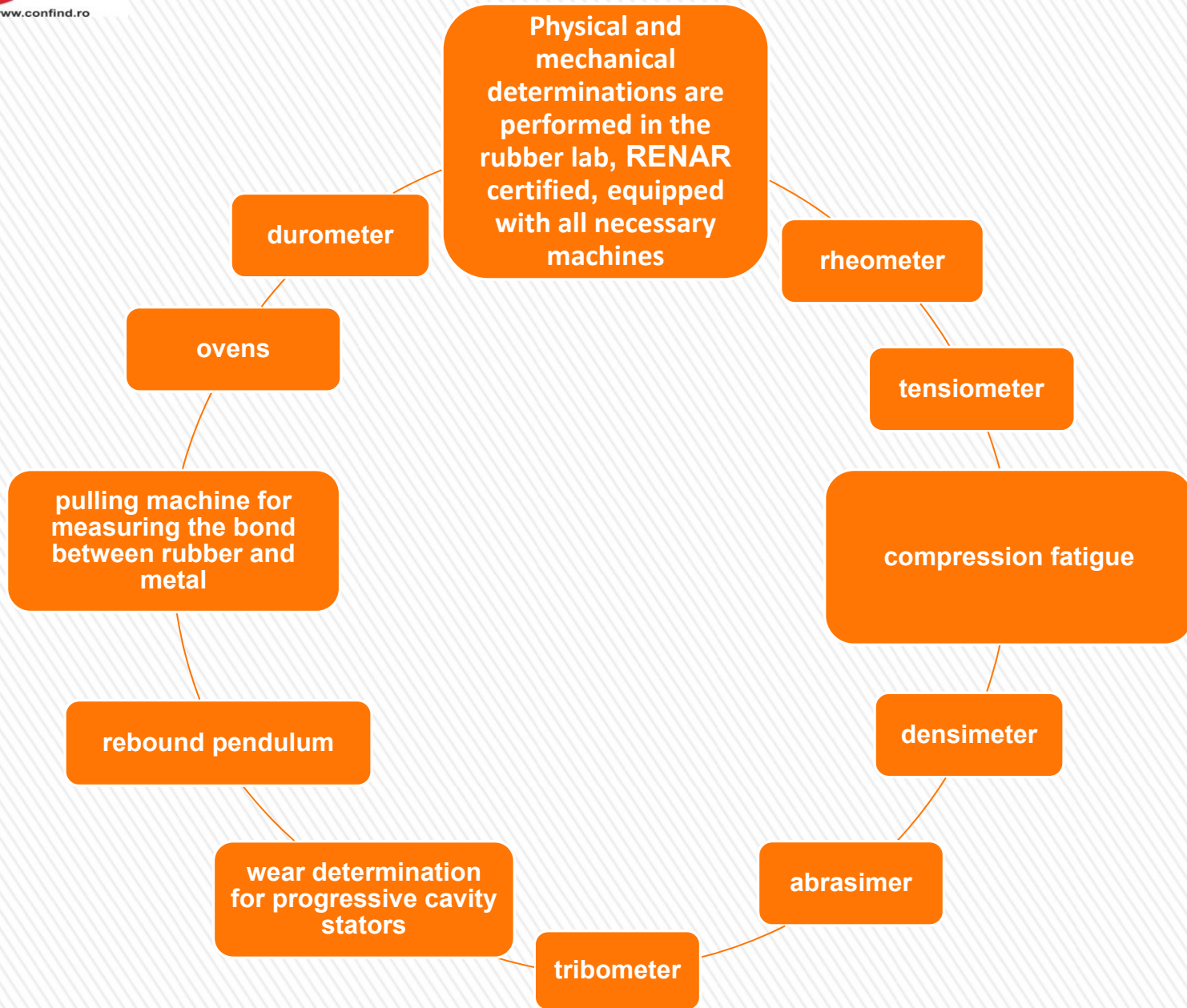
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8. Gaskets for horizontal blow out preventers:

- usage: prevent blows during drilling or interventions
- material: NBR, HNBR rubber
- working temperature: -30÷120°C; -46÷150°C
- hardness: 70°ShA÷90°ShA

Elastomers used by Confind		
ELASTOMER TYPE		TECHNICAL CHARACTERISTICS
Nitrile rubber (butadiene-acrylonitrile)	NBR	Good resistance to oil, good gas impermeability, good resistance to wear. Temperature range -30 to +120 °C; -40 to +90 °C.
Hydrogenated Nitrile Rubber	H-NBR	Good resistance to oil and corrosive environment (up to 20% H ₂ S + CO ₂). For temperature range -50 to +150 °C.
Fluorinated Rubber	FPM	Good resistance to petroleum products, aliphatic hydrocarbons, aromatic solvents. For temperature range -20 to +230 °C.
Chloroprene Rubber	CR	Average oil resistance, good resistance to ozone, heat and atmospheric agents. For temperature range -30 to +110 °C.
Ethylene propylene rubber	EPDM	Good resistance to ozone, heat, water, acids and bases, good flexibility at low temperatures. For temperature range -40 to +110 °C.
Silicone rubber	VMQ	Very good resistance to dry heat, dielectric qualities, flexibility at low temperatures, not resistant to gasoline and diesel. For the temperature range of -60 to +200 °C.
Natural rubber and styrene-butadiene	NR; SBR	General purpose medium heat resistance, good flexibility at low temperatures, not resistant to petroleum products (NR). For temperature range -40 to +70 °C.

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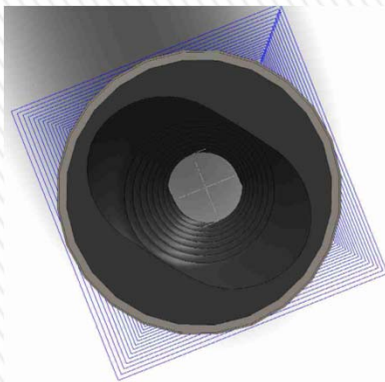


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A special category of products is represented by the stators required by the progressive cavity and multiphase pumps

Shape

- Single or multiple start helix elice vulcanized inside the metallic shell



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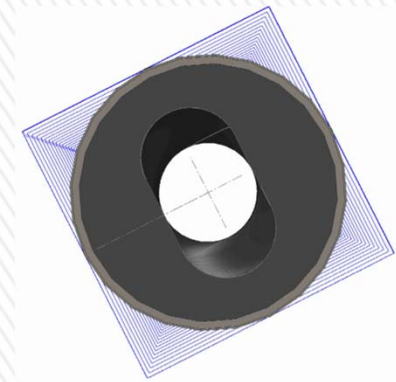
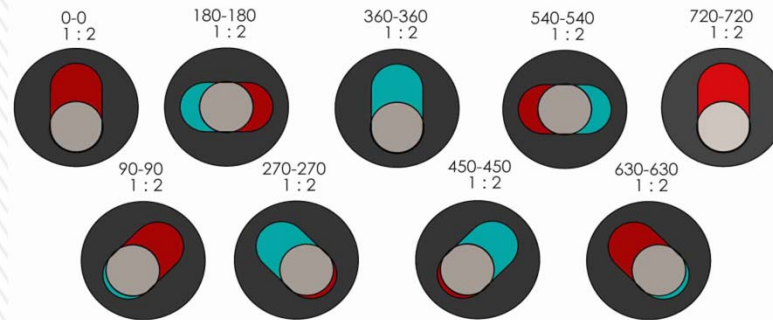
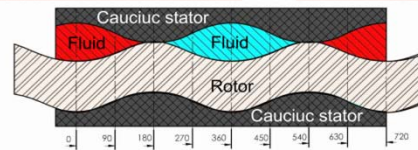
- Length 400-2800mm, Minor diameter 50-100mm, Major diameter 70-140mm

Accuracy

- 0.2mm

Elastomer characteristics

- Oil resistant, high abrasion resistance, very low remnant displacement due to compression fatigue, no changes in mass or volume after immersion, H₂S, CO₂ resistant, high temperature resistant



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Images of rotor-stator set with variable thickness elastomer lining

