

# RUBBER PARTS

CONFIND CAMPINA

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## COMPANY PRESENTATION

Since its establishment, Confind Company had as its primary target to bring in the Romanian industrial scenery, state of the art trends in high complexity equipment production, installation, products and parts, appropriate for the requirements of a modern economy.

Confind S.R.L. in the past few years became the most important Romanian manufacturer of fishing equipments and well repair for the wells in production or drilling phases.

This name is based on the experience of 90 years in the production of Oilfield Equipment in Câmpina, experience which has been passed over from generation to generation of specialists in the design and manufacturing of oilfield equipment and at the same time of the permanent concern to modernize the manufacturing solutions and reach a higher quality level for the products.

CONFIND has a specialized workshop for manufacturing the rubber products, destined mainly to the oilfield domain (drilling and production).

The rubber mixtures used by CONFIND are oil resistant (very good/good/medium) and resistant to corrosive environment: NBR-HNBR-FKM-NBR sailed; X-NBR

The inspections and tests required by the regulations in force are performed in the company's own laboratories.

The existent endowments of the laboratory for the control of the rubber products are:

- Tensiometer;
- Abrassionmeter;
- Hardness meter SHORE type;
- Rheometer MONSANTO MDR 2000, to determine the curing characteristics;
- Densitron 2000 MONSANTO type, to determine the density of the cure rubber;
- Rebound Pendulum CEAST type, to determine the rebound elasticity.

- The laboratory is certified by RENAR.

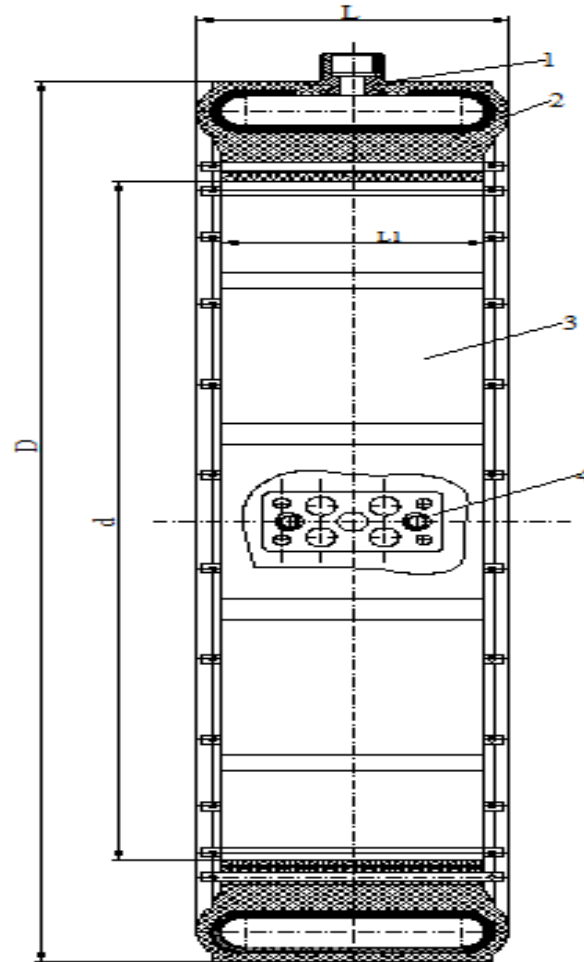
- Confind IMPEX Company has implemented the quality management system acc. to ISO 9001; 2000, certified by "AEROQ"- authorized organism to certify the quality management systems.

CONFIND has the capacity and availability to manage both the quality and quantity of customers' requirements at a high technical level, by using the newest raw material, technologies and assuring a permanent quality control for the products manufactured.

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## DETACHABLE BELLOW FOR PNEUMATIC CLUTCHES AB TYPE



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Technical characteristics		UM	AB 300 x 100	AB 500 x 125	AB 700 x 200	AB 1070 x 200
Nominal dimension of the clutch	$D_t$	mm	300	500	700	1070
Inner diameter	d	mm	302 -1.5/+2.5	504 ± 2	708	1078 ± 3
Outer diameter	D	mm	393	650	882	1270 ± 3
Width	L	mm	115	152	246	246
No of fixing plates		buc	6	6	8	8
Bellow fixing bolts			M 10 x 1	M 10 x 1	M 12 x 1.5	M 12 x 1.5
Friction element width	$L_1$	mm	100	125	200	200
No. Of shoes		buc	12	12	18	26
No. Of bolts		buc	24	24	36	52
No. Nuts connections		buc	1	1	2	2
Informative weight		kg	5.8	17	48	59
Pneumatic working pressure in the bellow		daN/cm <sup>2</sup>	7.....10 daN/cm <sup>2</sup>			
Calculated torque momentum ( $p=0.7\text{Mpa}$ , .. =0.3, ... (100rot/min)		daNm	300	1000	3000	8000
Maximum working RPM		rot / min	1500	1500	1000	500
Recommended no. Of couplings		Nr / ora	65	40	40	40
Bellow air volume		dm <sup>3</sup>	1.9	7.5	23	46
Operation environment			Air free from oil particles			
Operation temperature		°C	- 50 ÷ 70°C			

## PNEUMATIC CLUTCHES WITH BELLOW AB TYPE

### AREA OF USE

The Pneumatic clutches with bellow AB type are used both in drilling and other installations, for connecting and disconnecting parts while they are in use, having a rotation movement which transmits torques.

The torque is transmitted through the friction between clogs and the cylindrical drum which must be connected. This is achieved by introducing compressed air in the bellow, and the air by dilatation in opposite direction pushes the clogs until they clutch on the cylindrical drum.

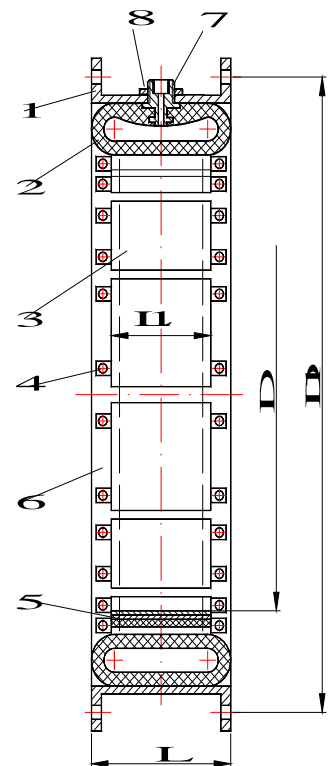
### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

The Pneumatic clutches with bellow AB type are made in eight types and dimensions, as presented in table 1.

The Pneumatic clutches with bellow AB type consist mainly of the following (see figure 1):

- Annular metal frame (item 1) which is provided with holes for fixing in the installation;
- Rubber bellow with cord insertion (item 2) vulcanized on the annular frame;
- Friction shoes (item 3) mounted on the inside of the bellow;
- Bolts (item 4) which are used to fix the shoes;
- Non-conducting part (item 5) between shoe and rubber bellow;
- Wire fuse (item 6) for connection between free ends of the bolts;
- Metal connection (item 7) vulcanized on the bellow and allowing the air to get in;
- Nut (item 8) for fixing the metal connection;

Note: The annular metallic frame can be recovered, by burning the bellow, followed by the recalibration of a metallic dorn



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Spare Parts:

- Friction shoes (item 3)
- Bolts (item 4)

**Technical Characteristics** of the Pneumatic Clutches with bellows AB type are presented in table

***Data to be introduced in the order by the customer:***

- 1) *Description - pneumatic clutch with bellow AB type (CB)*
- 2) *Nominal dimension, example nominal diameter of 600 m; coupling width of 125 mm:*

**Pneumatic Clutch with Bellow type AB 600 x 125.**

# RUBBER PARTS

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## PNEUMATIC CLUTCHES WITH BELLOW AB TYPE

Technical Characteristic	Symbol Fig. 1	U.M	NOMINAL DIMENSION							
			TYPE AB							
			160 x 50	250 x 80	300 x 100	400 x 125	500 x 125	600 x 125	700 x 125	700 x 200
<b>Dimensional specifications</b>										
Nominal diameter of the drum	-	mm	160	250	300	400	500	600	700	700
Inner diameter of the assembly clutch	<b>D</b>		164	255	302	405	504	604	705	704
Fixing diameter of the frame	<b>D1</b>		260	375	430	565	690	790	865	950
Friction element width	<b>L1</b>		50	80	100	125	125	125	125	200
Working pressure	-	daN/cm <sup>2</sup>	7...10							
Frame width	<b>L</b>	mm	63	95	117	178	158	168	175	240
No. of fixing holes	-	mm	2 x 8	2 x 12	2 x 12	2 x 12	2 x 12	2 x 16	2 x 24	2 x 24
No. of shoes	-		8	10	12	12	12	14	18	18
<b>Functional specifications</b>										
Torque Limit for producing sliding at pressure of 7bar	<b>Lapping status</b>	kgfm	45	180	280	680	1050	1500	2050	3200
	<b>Unlapping status</b>		35	145	225	545	840	1200	1640	2560
Torque Limit for producing sliding at pressure of 10bar	<b>Lapping status</b>	kgfm	63	250	400	950	1500	2200	3000	4500
	<b>Unlapping status</b>		50	200	320	760	1200	1760	2400	3600
Maximum recommended RPM in operation	-	rot/min	1800	1800	1600	1400	1300	1100	950	800
Friction shoe factor			min 0,38							
Informative weight	-	kg	3,7	11	13,5	28	36	48,5	48	( 106 )



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## RUBBER BELLOWS FOR HYDROPNEUMATIC ACCUMULATORS AB-320

### AREA OF USE

The hydraulic accumulator, in which the rubber bellow is mounted, is a component of the hydraulic command installations of the blow-out preventers from the wells in drilling and has the purpose to gather the hydraulic energy, by compressing a pressurized nitrogen pad, by means of the oil introduced by the pump.

The rubber bellow has the purpose of diaphragm, which separates the gas from the liquid environment, maintaining the nitrogen quantity compressed in the accumulator and preventing the contamination of the oil by absorbing the nitrogen.

- **The accumulator bellow dwg no. 3904 - 4.0, is a component part of the hydropneumatic accumulator AB – 320**

### PERFORMANCE LEVEL

The rubber bellow for hydro pneumatic accumulator AB-320 is manufactured according to the Technical Norm STR 209 - 86.

### CONSTRUCTIVE DESCRIPTION

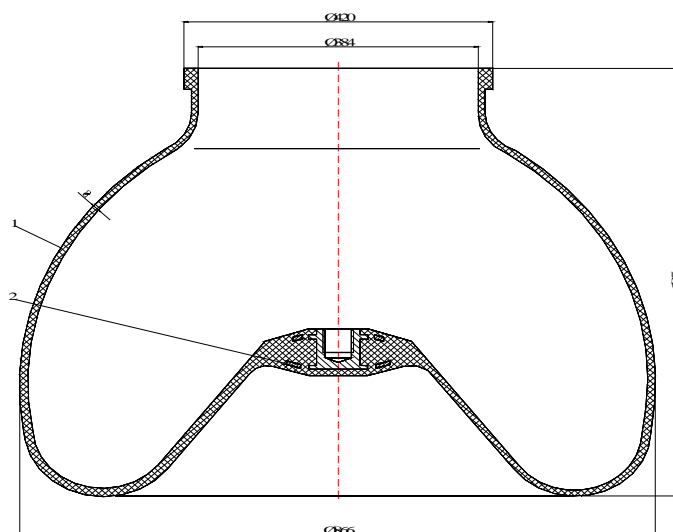
The bellow for hydro pneumatic accumulator (see figure 1) is an assembly consisting of:

- a rubber bellow of a spherical shape (item 1)
- an iron core (item 2) incorporated in rubber body.

At the lower part the bellow is in contact with the pressurized nitrogen, and at the outer part with the hydraulic fluid (transformator oil) in a way in which both surfaces of the bellow are subject to the working pressure.

The iron core has the purpose to colge the entrance bore hole of the fluid and to keep the bellow from breakdown, due to the nitrogen pressure from the upper housing.

The rubber compound which is used is based on acrylonitrile-butadiene elastomer, oil resistant and hardness of 65  $\pm 5^\circ$  ShA



- **Technical Characteristics** of the rubber bellows for hydro pneumatic accumulators:

Technical specification	U.M	Value
Bellow volume	l	320
Maximum working pressure	bar	140
Maximum working temperature	°C	+ 80
Minimum working temperature	°C	- 7

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## RUBBER BELLOW, RUBBER DIAPHRAGM 507 – 3

### FOR SPHERICAL PULSATING BUFFERS AP 210-350

#### AREA OF USE

The rubber bellow is mounted in the spherical pulsating buffers, which is used to compensate the non-uniformities flow of the piston pumps, which occur as shocks in the discharge pipe of the mud pumps.

**Bellow buffer, drawing no. 507 - 02**, is used for two types of buffers: - for pressure of 210 bar (AP - 210); - for pressure of 350 bar ( AP - 350 ).

**Rubber diaphragm 507 - 3** ( $\phi$  505 x  $\phi$  x 65 x 24) is a component part of the spherical pulsating buffer and has as purpose increase the life cycle of the rubber bellow, by limiting the possibilities to be deformed under the pressure of the drilling fluid.

#### PERFORMANCE LEVEL

The rubber bellows for spherical pulsating buffers, is made in compliance with the norm STR 207 - 86.

#### CONSTRUCTIVE DESCRIPTION

- The bellow buffer (see figure 1) is an assembly consisting of

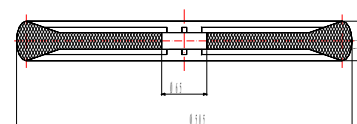
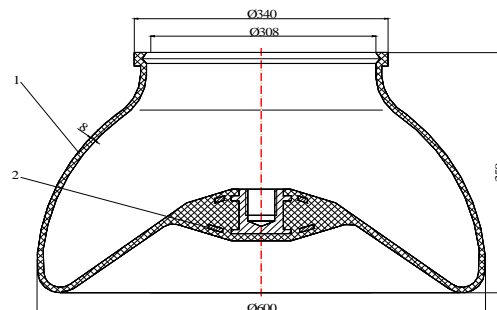
- rubber bellow spherical shape (item 1)
- iron core (item 2) incorporated in the rubber body.

At the inside the bellow mounted in the buffer is in contact with the pressurized nitrogen, and at the outside with the drilling fluid.

The bellow buffer makes up to 130 cycles of pulsations per minute, having both faces of the bellow subject to working pressure.

• **Bellow** - rubber compound based on acrylonitrile-butadiene elastomer, oil resistant and hardness of  $65 \pm 5^\circ$  Sh.

• **Diaphragm** (Fig.2) rubber compound based on acrylonitrile-butadiene elastomer, resistant and with hardness of  $75 \pm 5^\circ$  Sh.



- **Technical characteristics** of the rubber bellows for spherical pulsating buffers:

Technical specifications	U.M	Value
Bellow volume	l	80
Max. working pressure	bar	350
Max. working temperature	°C	+ 80
Min. working temperature	°C	+ 4

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## RUBBER BELLOWS FOR VENTILATED PNEUMATIC CLUTCHES AVB TYPE

Figure 1

### AREA OF USE

The rubber bellows mounted in the assembly of the ventilate pneumatic clutch AVB type represents the elastic element of the clutch and has the purpose to transform the pressure of the compressed air which enters inside in the pressure of the clutch shoes over the drum of the installation.

### PERFORMANCE LEVEL

Rubber bellows for ventilated pneumatic clutches type AVB are made in compliance with technical norm STR 208 - 86.

### CONSTRUCTIVE DESCRIPTION

• Ventilated rubber bellows for pneumatic clutches type AVB are made in 7 different types from a dimensional point of view, as presented in table 1.

• The rubber bellows (see figure 1) have a linear shape, and after introducing them in the clutch they come to a cylindrical shape in a way in which the ends can reach each other.

• The bellows are made of:

- an interior rubber chamber, where the metallic fixture are placed,
- 4 layers of textile to sustain the pressure resistance,
- an outer rubber layer.

If the working pressure of the compressed air drops below 10 bars, it decreases also the capacity to transmit the torque, the shoe over hits due to sliding, and the heat is transmitted over the rubber bellow as well, especially to the outer part, leading to an accelerated aging. For this reason the pressure of the compressed air must not go below 7 bars.

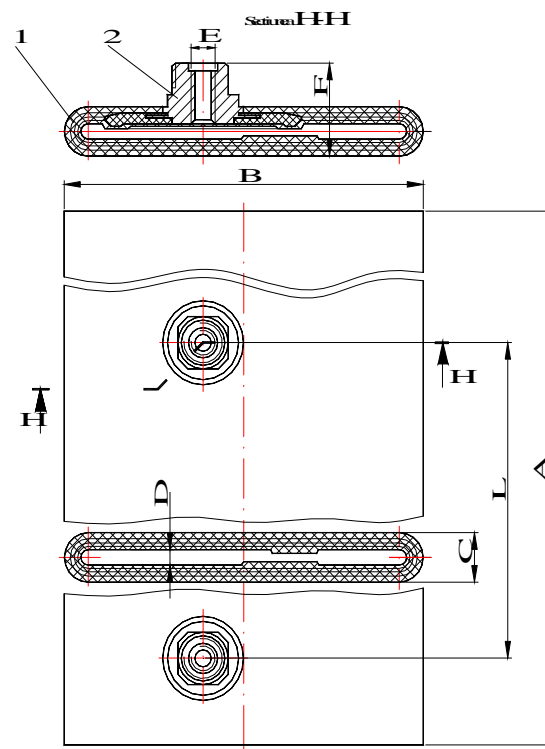


Table 1

Techical specifications for bellow	Symbol Fig. 1	UM	TYPES						
			VENTILATED AVB TYPE BELLOW						
			500 x 200	600 x 250	710 x 250	800 x 250	900 x 250	1120 x 300	1250 x 300
Air pressure in the bellow		bar	7 .....10						
Maximum working temperature		°C	80°C						
Air connection dimmension	<b>E</b>	in	G 1/2						
Distance between the connection centers	<b>L</b>	mm	(a connection)	599	682	839		1012	1115
Length	<b>A</b>	mm	1014	1193	1368	1515	1670	2015	2220
Width	<b>B</b>		200	250				290	
Bellow thickness	<b>C</b>		26						
Total height	<b>F</b>		44	44	46	51	51	51	51
Bellow chamber Height	<b>D</b>		5	5	5	5	5	5	5
Informative weight	-	kg	4.6	7,2	7.5	9.5	10,0	14.5	15.5

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## S TYPE CUPS FOR SUBSURFACE PUMPS

### AREA OF USE

S type cups are a component part of the subsurface pumps operated with rods which are destined to circulate the fluids of the wells functioning in pumping mode.

### PERFORMANCE LEVEL

S type cups are made in compliance with the provisions of standard API Spec. 11AX.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- S type cups (see figure 1 and figure 2) are made in six types and dimensions indicated in table 1.
- The S type cups' material is a special rubber mixture with cloth insertions impregnated with rubber.
- The rubber compound used is based on acrylonitrile-butadiene elastomer ( NBR ), oil resistant Rubber mixture hardness is of  $100 \pm 5^\circ$  Sh.  
Working temperatures of  $0 \div 130^\circ\text{C}$

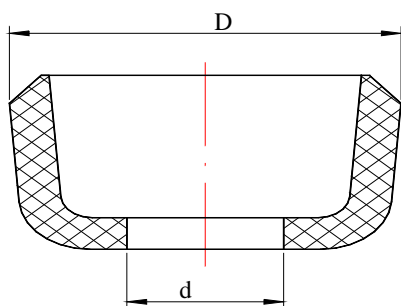


Figura 1

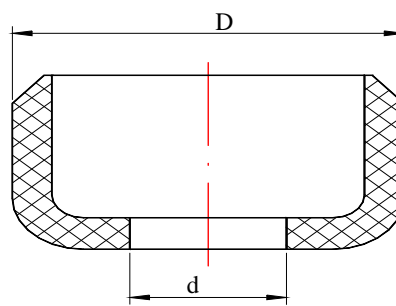


Figura 2

Tabelul 1

Description		Dimensions, mm		
		D	d	
S CUPS 12-20	RL 1 1/4	Figure 1	45,72	30,15
S CUPS 12-25	RL 1 3/4		58,67	39,67
S CUPS 12-30			71,37	50,80
S CUPS 18-20	TL 1 3/4	Figure 2	43,94	30,15
S CUPS 18-25	TL 2 1/4		56,64	39,67
S CUPS 18-30	TL 2 3/4		69,34	50,80

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## CEMENTING PLUGS

### AREA OF USE

The Cementing Plugs are used in cementing operations at the oil and gas wells, having the purpose to separate the two fluids used for cementing the wells, respectively the drilling mud and the cement milk.

### CLASSIFICATION

The Cementing Plugs are made in two constructive solutions:

- Lower Cementing Plug, which is introduced in the well hole, before pumping the cement milk (see fig.1).
- Upper Cementing Plug, which is introduced in the well hole, after pumping the cement milk ( see fig.2).

### CONSTRUCTIVE DESCRIPTION

The Cementing Plugs are made of a mixture based on natural rubber (NR)

- with the hardness of  $60 \pm 5^{\circ}Sh$ ,
- Working temperature:  $-50^{\circ} \div +70^{\circ}C$ .

**The Lower Cementing Plug** consists of an iron bushing (iron or aluminium) on which the rubber is vulcanized. At the upper part, the bushing is colged with a rubber diaphragm, which will be broken after the plug reached the foot of the well and the necessary pressure in the string is achieved, allowing the penetration of the cement milk in the annular space between the string and the walls of the well hole.

**The Lower cementing plug** is manufactured from a compound of a red color

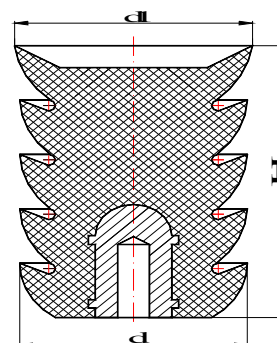
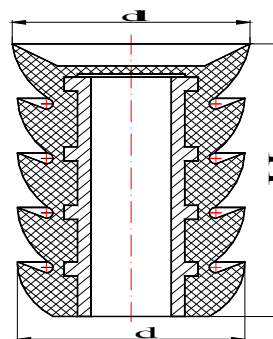
**The Upper Cementing Plug** is made of massive rubber and at the lower part has incorporated an aluminum core.

The Cementing Plugs are used for one cementing operation, being an unrecoverable element.

Tabelul 1

Nominal dimension	CEMENTING PLUGS DIMENSIONS		
	UPPER ; LOWER		
	Ø d	Ø d1	H
in	mm		
4 1/2	103	106	148
5	112	116	152
5 1/2	126	128	158
5 3/4	130	136	160
6 5/8	151	156	180
7	164	166	180
8 5/8	200	206	220
9 5/8	223	232	220
10 3/4	252	254	216
12 3/4	300	305	225
13 3/8	315	324	240

Figure 1-  
LOWER PLUG



UPPER PLUG

Figure - 2

Data to be introduced in the order by the customer:

example:

Lower cementing plugs 6 5/8;

Upper cementing plug 6 5/8

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## RUBBER GASKETS “DF” TYPE FOR HORIZONTAL BLOW-OUT PREVENTER

### AREA OF USE

The rubber gaskets are mounted in the horizontal blow-out preventer DF type, used as the well hole for avoiding the free blowing during the drilling at the oil and gas wells or for exploitation operations.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The rubber gaskets for DF type blow-out preventers are delivered in pair (2 pcs) and are made in two typo dimensions, with different nominal closing dimensions (total closing or closing by drill pipe or by casing see figure 1 and table 1).
- The rubber compound used is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and for temperatures of minus 30 ÷ 100 °C, with hardness of 75 ±5° Sh.

Figure 1

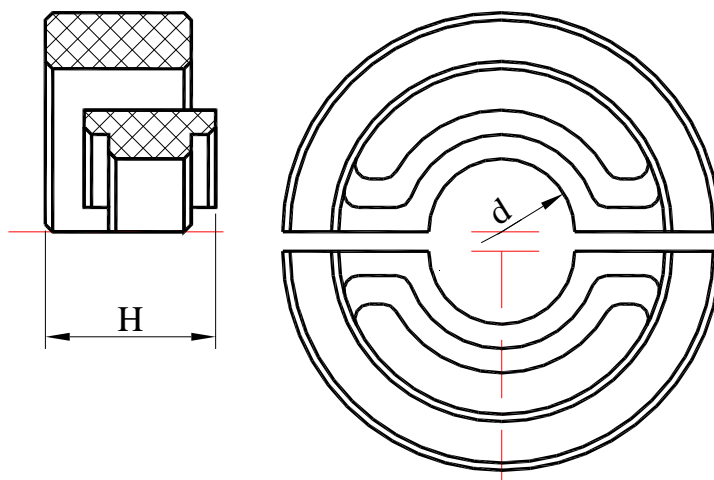


Table 1

Type	Nominal pressure	Closing dimension													Dimension			
		in													d	D		
in	bar	in													mm			
DF 7 1/16	210	0			2 3/8			2 7/8			3 1/2				300	68		
	350	0			2 3/8			2 7/8			3 1/2							
	700	0			2 3/8			2 7/8			3 1/2							
DF 9	210	0	2 3/8		2 7/8		3 1/2		4		4 1/2		4 3/4		5		331	98
	350		2 3/8		2 7/8		3 1/2		4		4 1/2		4 3/4		5			
	700		2 3/8		2 7/8		3 1/2		4		4 1/2		4 3/4		5			
DF 13 5/8	210	0	2 3/8	2 7/8	3 1/2	4 1/2	4 3/4	5	5 3/4	5 9/16	6 5/8	7	7 5/8	8 5/8	9 5/8	440	98	
	350		2 3/8	2 7/8	3 1/2	4 1/2	4 3/4	5	5 3/4	5 9/16	6 5/8	7	7 5/8	8 5/8	9 5/8			

Data to be introduced in the order by the customer:

- 1) Description;
- 2) Typo dimension;
- 3) Nominal Pressure;
- 4) Nominal closing dimension. Example: Gasket type DF 9 x 350 x 3 1/2

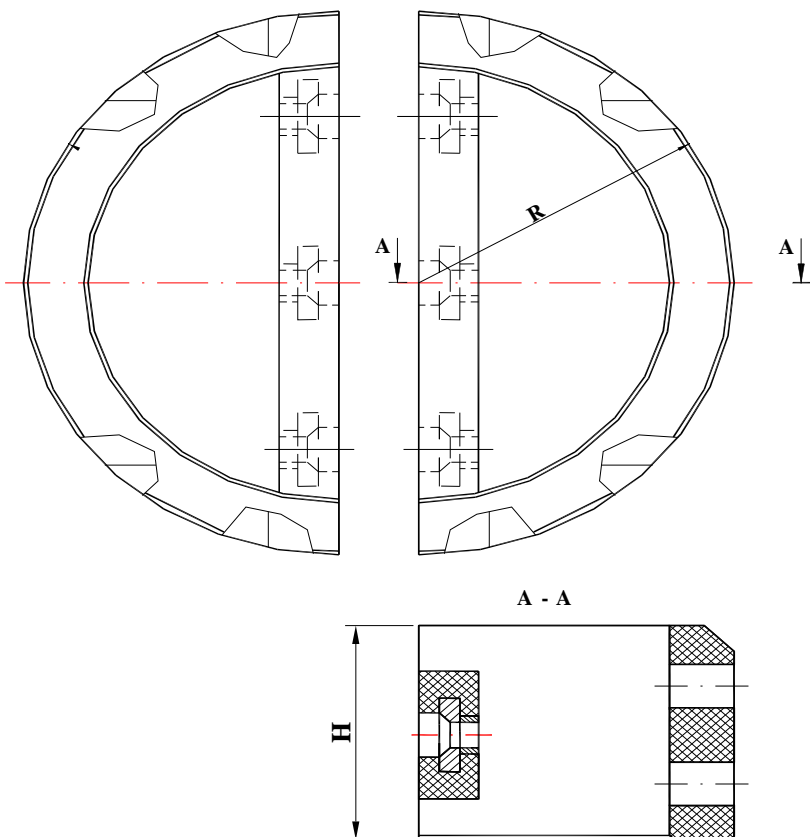
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## RUBBER GASKETS “MB2” TYPE FOR HORIZONTAL BLOW-OUT PREVENTERS

### AREA OF USE

Rubber gaskets are mounted in the MB2 type blow-out preventers (with mechanical actuation), used when drilling small depth wells or in geological formations without strong blowing indications.



### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- Rubber gaskets for MB2 type blow-out preventers are delivered in pair (2 pcs) and made for the dimension 6 in x 210 bar, with different nominal closing dimensions (see figure 1 and table 1).

- The rubber compound used is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and for temperatures of minus 30 ÷ 100 °C, with hardness of 75 ±5° Sh.

Figure 1

Table 1

Description	Nominal closing dimensions				Dimensions	
					2xR	H
	in				mm	
MB2-6inx210	0	2 3/8	2 7/8	3 1/2	295,5	116

*Data to be introduced in the order by the customer:*

1) Description;

2) Nominal closing dimension.

Example: Gasket type MB2 - 6 x 210 x 3 1/2

## RUBBER PARTS

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### GASKETS FOR F TYPE CUP PLUGS

#### AREA OF USE

The gaskets for F type cup plugs are sealing elements of the cup plugs, for the pressure tests used when testing the sealing of the strings.

#### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The gasket cup F type consists of two iron cores: gasket support (item 1) and protector ring (item 2) with rubber gasket vulcanized on it (item 3) – see figure 1.

- Nominal dimensions of cups F type are indicated in table 1.

- The rubber compound used for gasket cup F type is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and temperatures of minus 30 ÷ 130 °C for nominal dimensions of 4 1/2 ÷ 8 5/8 in and temperatures of minus 30 ÷ 100 °C for nominal dimensions of 9 5/8 ÷ 14 3/4 in.

- The hardness of the rubber is: 75 ±5° Sh.

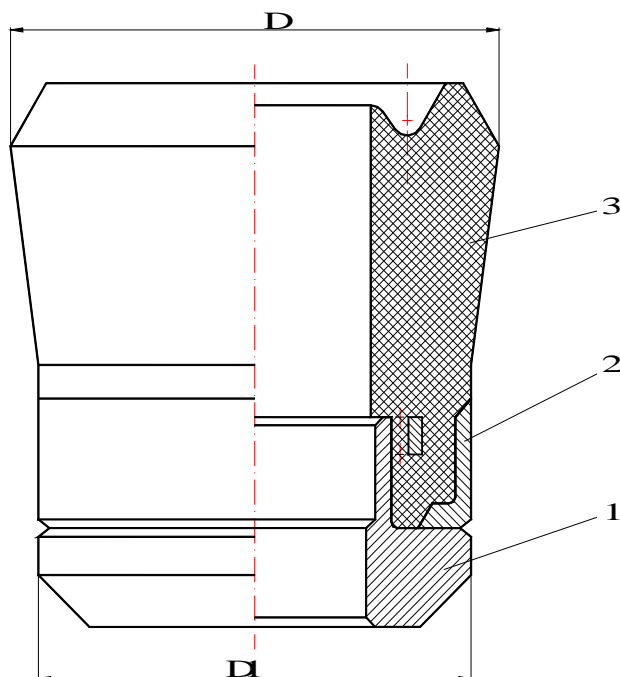


Figura 1

**Data to be introduced in the order by the customer:**

1) Description;

2) Nominal dimension (in “in”);

3) Outer diameter  $D$  (in “mm”).

Example: **Gasket cup F 9 5/8 Ø244**



# RUBBER PARTS

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## GASKET CUP F TYPES

Table 1

Nominal dimension	Dimensions		Nominal interior diametres of the sealing string
	D	D1	
in	mm		
4 1/2	110	97	99,6 ... 103,9
5	123	105	108,6 ... 115,8
5 1/2	135	115	118,6 ... 127,3
5 3/4	140	115	118,0 ... 132,0
6	148	125	124,4 ... 137,8
6 5/8	165	142	144,2 ... 153,7
7	178	147	150,4 ... 166,1
7 5/8	190	165	168,3 ... 178,5
8 5/8	208	185	190,8 ; 193,7 ; 196,2
8 5/8	218	192	198,8 ; 201,2 ; 203,7 ; 205,7
9 5/8	238	210	216,8 ; 220,5 ; 222,4
9 5/8	244	218	224,4 ; 226,6 ; 228,7
10 3/4	268	242	247,9 ; 250,1 ; 252,7
10 3/4	276	246	252,7 ; 255,2 ; 258,8
11 3/4	295	268	273,6 ; 276,3 ; 279,4
11 3/4	300	274	279,4 ; 281,5 ; 283,2
12 3/4	325	294	299,9 ; 310,9 ; 303,9 ; 305,9
13 3/8	338	308	313,6 ; 315,3 ; 317,9
13 3/8	343	312	317,9 ; 320,4 ; 322,9
14 3/4	380	346	353,0 ; 355,0 ; 357,0 ; 359,0

# RUBBER PARTS

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## SEALING GASKETS FOR WELLHEAD EQUIPMENT

### AREA OF USE

The sealing gaskets are component parts of the X-mas Trees and Wellheads, used at the oil and gas wells.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The sealing gaskets for X-mas Trees and Wellheads are made in two constructive solutions – see figure 1 and figure 2.
- The nominal dimensions of the sealing gaskets currently used are presented in table 2 and table 3.
- The main characteristics of the rubber compound used to make the sealing gaskets are presented in table 1.

Table 1

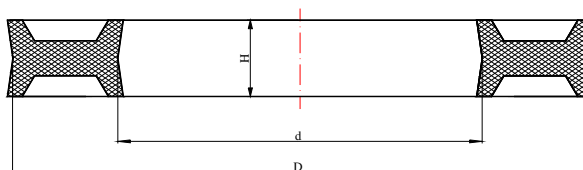
Gasket type	Elastomer symbol (ASTM 1418)	Characteristics		
		Resistant to :	Temperature of use °C	Hardness °Sh
	Gasket acc. Figure 1 (Table 2)	NBR Acrylonitrile - butadiene	Petroleum products	-30° ÷ 130°
-46° ÷ 90°				73° ±5
Gasket acc. Figure 2 (Table 3)	NBR Acrylonitrile – butadiene hydrogenated	Petroleum products and corrosive environment ( 20 % H <sub>2</sub> S )	-50° ÷ 150°	80° ±5
			-20° ÷ 100°	85° ±5
Gasket acc. Figure 2 (Table 3)	NBR Acrylonitrile - butadiene	Petroleum products	-46° ÷ 90°	83° ±5

**Data to be introduced in the order by the customer:**

- 1) Description;
- 2) Nominal Dimension (in “in” );
- 3) Drawing no and/or dimensions.

*Example : Sealing gasket 5 1/2 23225a*

Figure 1 (BREDA – primary, secondary)



# RUBBER PARTS

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Table 2

Nominal dimension	Drawing No.	Dimensions		
		D	d	H
in	-	mm		
4 1/2	31356.1.16	170	115	40
4 1/2	112C – 47a	230	114	44
4 1/2	112C – 42a	280	114	51
5	112C – 46b	230	127	44,4
5	112C – 41b	280	127	51
5 1/2	23225a	230	140	45,4
5 1/2	23223	280	140	51
5 3/4	26248a	230	146	44
5 3/4	25474a	280	146	51
6	351.0050-00.18.0	280	152,5	51
6 5/8	112C - 34b	230	168	44
6 5/8	112C - 25b	280	168	51
7	112C - 33b	230	178	44,4
7	112C - 24b	280	178	51
8 5/8	25465	287	219	44
8 5/8	26165a	348	219,5	44
9 5/8	112C – 17b	287	244,5	44
9 5/8	25933a	348	244,5	44
13 3/8	351.0051 – 00.40.0	380	340	44
13 3/8	25522	430	339,7	44
13 3/8	25520	515	339,7	50
13 3/4	351.0051 – 00.42.0	380	351	44

Table 3

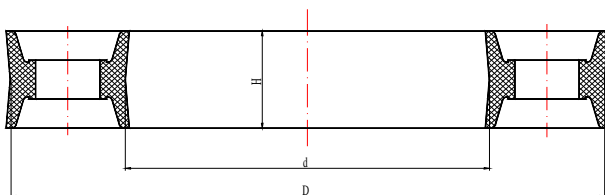


Figure 2 (CAMERON type)

Nominal Dimension	Drawing number	Dimensions		
		D	d	H
in		mm		
5 1/2	14278b	280	142	50
5 3/4	14282b	280	146	50
6 5/8	14279b	280	170	50
7	14281b	280	180	50
9 5/8	14283b	340	247	50

# RUBBER PARTS

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## RUBBER SLEEVES GASKETS

### AREA OF USE

Sleeve Gaskets are used for sealing the spaces between the parts which have a translation movement, for fixed or mobile sealings with translation movement or helical movement at low speeds.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

**Sleeves** are circular gaskets with a certain profile in cross section (U, V, LE, bearing ring, press ring etc.) made of rubber compound with homogenous composition or rubber with textile insertion.

- The rubber sleeves with U profile (see figure 1) are mounted one in a seat, with bearing ring and used for sealing shaft or bore type.
- The rubber sleeves with V profile (see figure 2) are mounted in package, with one bearing ring and one press ring, made of textile rubber, metal or plastic and are used for sealing shaft or bore type.
- The rubber sleeves with LE profile (see figure 3) are mounted one in a seat and work with axial tightening in shaft type sealing.

The rubber sleeves are made of rubber compound in 1 ÷ 4 variants (see table 1), and the sleeves with U or V profile can also be made of rubber with textile insertion acc. to variant 5 (see table 1).

The sleeves are made according to manufacturing drawings, in own press tools or tools supplied by the customer.

Figure 1

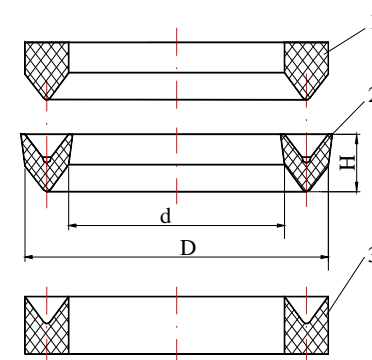
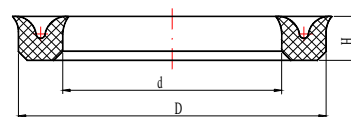
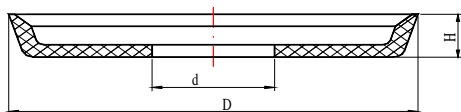


Figure 2

- Item 1-pressure ring  
Item 2-sleeve V profile  
Item 3-support ring

Figure 3



Tabelul 1

Variant	Elastomer	Symbol	Properties	Temperatures of use	Hardness
		(ASTM D1418)		°C	°Sh
1	Acrylonitrile – butadiene	NBR	-good resistance to petroleum products	-30° ÷ 100°C	65°±5÷90°±5
2	Acrylonitrile – butadiene	NBR	- good resistance to petroleum products	-46° ÷ 90°C	73°±5
3	Acrylonitrile – butadiene hydrogenated	HNBR	- good resistance to petroleum products -good resistance to corrosive service (H <sub>2</sub> S+CO <sub>2</sub> )	-50° ÷ 150°C	80°±5
4	Fluoric rubber	FKM	-good resistance to oil and corrosive agents	-15° ÷ 200°C	80°±5
5	Acrylonitrile – butadiene with textile insertion	NBR panzat	- good resistance to petroleum products	-35° ÷ 100°C	90°±5

*Data to be introduced in the order by the customer*

1) Description;

2) Drawing no. and/or dimensions.

# RUBBER PARTS

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## RUBBER GASKETS FOR PACKERS

### AREA OF USE

Rubber gaskets are a component part of the following type of packers: R3; POSI TEST; HOVA; LOK - SET; PRSMA; PRDM etc.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The gaskets are manufactured for various types of packers, as shown in figures 1 ÷ 10 and tables 2÷8.
- The main features of the rubber mixtures used in performance of gaskets for packers are presented in Table 1.

Table 1

Elastomer type	Elastomer symbol	Characteristics		
		Resisting at :	Temperature of use	Hardness
	(ASTM 1418)		°C	°Sh
Butadiene-Acrylonitrile	NBR	Petroleum products	-30° ÷ 130°	75° ±5
			-15° ÷ 100°	90° ±5
Hydrogenated Nitrile	HNBR	Petroleum products and corrosive environments (20% H <sub>2</sub> S)	-50° ÷ 150°	80° ±5
Fluorinated	FKM	Petroleum products and corrosive agents	-15° ÷ 230°	70°÷90° ±5

**Data to be introduced in the order by the customer:**

1) Description and dimensions;

3) Drawing number.

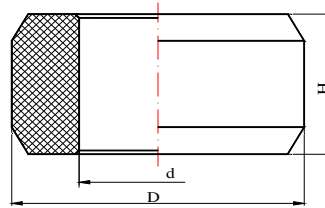
Example: Sealing gaskets for packers POSI TEST 5 1/2", D118 (kit)

# RUBBER PARTS

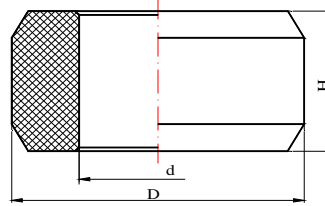
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## SEALING GASKETS FOR PACKERS

Edge Gasket



Middle Gasket



Edge Gasket

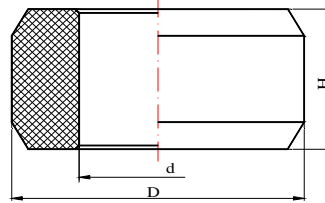


Table 2

Gaskets for R3 Packers				
Gasket Description	Casing nominal diameter	Dimensions		
		D	d	H
		mm		
Edge Gasket	5"	103	75,5	70
Middle Gasket				65
Edge Gasket	5"	106	75,5	70
Middle Gasket				112 – 115,8
Edge Gasket	6 5/8"	138	73,5	70
Middle Gasket				144,2 – 147,1
Edge Gasket	6 5/8"	145	73,5	70
Middle Gasket				150,4 – 155,8
Edge Gasket	7"	145	105,5	70
Middle Gasket				157,1 – 166,1
Edge Gasket	7"	151	105,5	70
Middle Gasket				157,1 – 166,1

# RUBBER PARTS

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Table 3

Gaskets for POSI TEST packers				
Gasket Description	Casing nominal diameter	Dimensions		
		D	d	H
-	-	mm		
Edge Gasket 80°Sh A	4 1/2"	90	70,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	4 1/2"	95	75,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	4 1/2"	98	75,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5"	100	75,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5"	105	75,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5 1/2";5 3/4"	114	80,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5 1/2"	116	80,5	44
Garnitura mijloc 70°Sh A				
Edge Gasket 90°Sh A	5 1/2"	118	80	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5 3/4"	120	80,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	5 3/4"	125	80,5	44
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	6 5/8"	138	100,5	50
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	6 5/8"	143	101	50
Middle gasket 70°Sh A				
Edge Gasket 90°Sh A	7"	143	85	50
Middle gasket 70°Sh A				
Edge Gasket 90°Sh A	7"	150	85,5	50
Middle gasket 70°Sh A				
Edge Gasket 80°Sh A	7"	155	85,5	50
Middle gasket 70°Sh A				
Edge Gasket 90°Sh A	8 5/8"	182	126	76
Middle gasket 70°Sh A				
Edge Gasket 90°Sh A	8 5/8"	190	126	76
Middle gasket 70°Sh A				

# RUBBER PARTS

## CONFIND CAMPINA

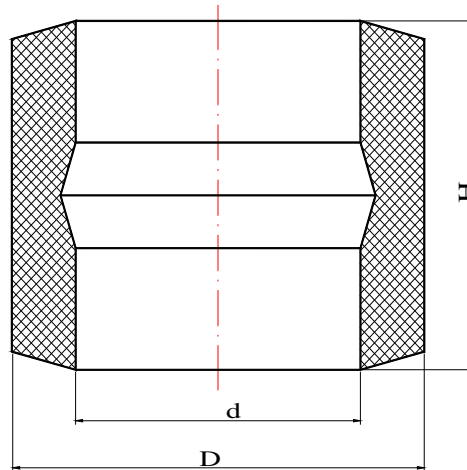


Figure 2  
Gaskets for HOVA Packers

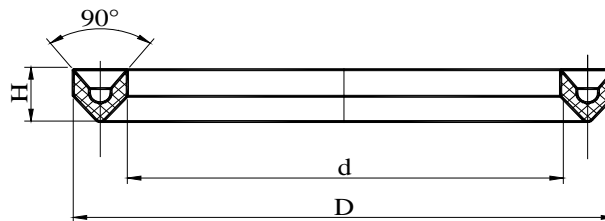


Figure 10  
"V" sleeves

Gaskets for HOVA Packers				
Gasket Description	Casing Dimension	Dimension		
	Db	D	d	H
-	in	mm		
Sealing gasket	5 1/2 ÷ 5 3/4	114	81	78
Sealing gasket	5 3/4 ÷ 6	124	81	87,5
B type sealing gasket	6 5/8	138	101	113
A type sealing gasket		146		116
Sealing gasket	7	150	101	117
"V" sleeve	5 ÷ 5 3/4	62,5	48,5	6,7
"V" sleeve	6 5/8 ÷ 7	81,5	61,5	8



# RUBBER PARTS

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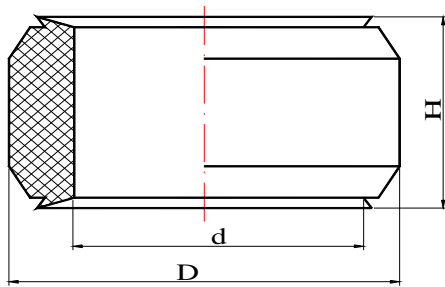


Figure 3  
Edge gasket

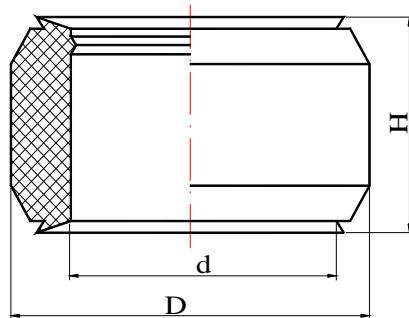


Figure 4  
Middle gasket

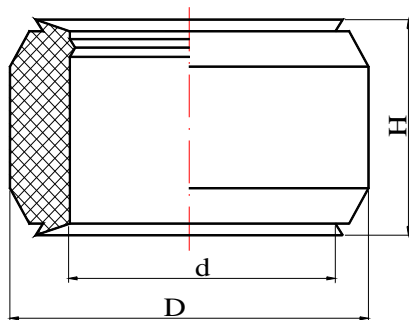


Figure 3  
Edge gasket

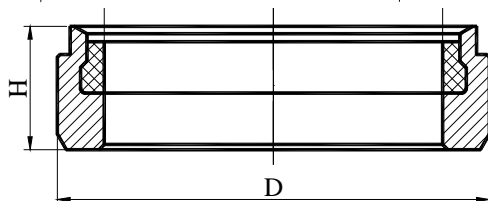


Figure 9  
Gasket ring

Table 5

Gaskets for R3 packers				
Gasket Description	Casing inner diameter	Dimensions		
	Db	D	d	H
-	in (mm)	mm		
Edge gasket D112	5 1/2 ÷ 5 3/4	112	80	67,5
Middle gasket D112	(118 ÷ 122)		79,5	57
Edge gasket D116	5 1/2 ÷ 5 3/4	116	80	67,5
Middle gasket D116	(121,4 ÷ 126)		79,5	57
Edge gasket D120	5 1/2 ÷ 5 3/4	120	80	67,5
Middle gasket D120	(125,7 ÷ 130)		79,5	57
Gasket ring	5 1/2 ÷ 5 3/4	84	65,8	24

# RUBBER PARTS

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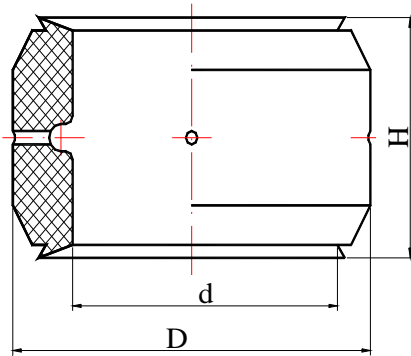


Figura 5  
Upper gasket

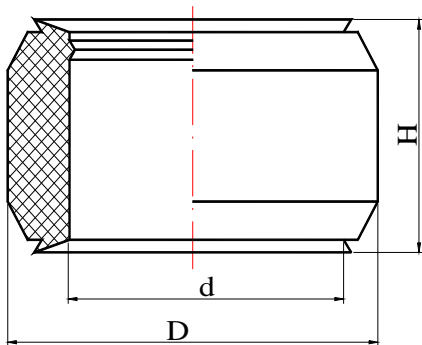


Figure 3

Lower gasket

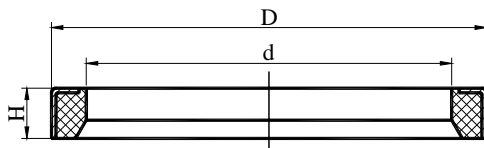


Figure 8  
Gasket ring – 2pcs/kit

Gasket for LOK – SET packers				
Gasket Description	Casing inner diameter	Dimensions		
	Db	D	d	H
-	in (mm)	mm		
Upper gasket D112	5 1/2	112	85,5	60,3
Lower gasket D112	(114,42 ÷ 121,54)			
Upper gasket D120	5 1/2	120	85,5	60,3
Lower gasket D120	(121,54 ÷ 129,86)			
Gasket ring	5 1/2	80	65,8	11
Upper gasket D146	7	146	105,5	60,3
Lower gasket D146	(150,4 ÷ 157,1)			
Upper gasket D152	7	152	105,5	60,3
Lower gasket D152	(159,4 ÷ 166,1)			
Gasket ring	7	95	79,8	11

# RUBBER PARTS

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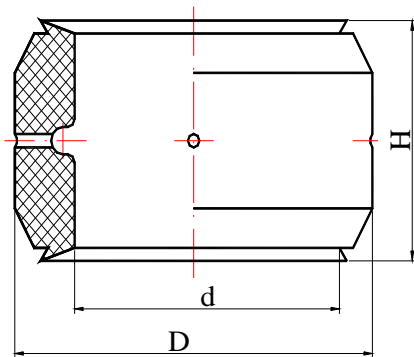


Figure 5  
Upper gasket

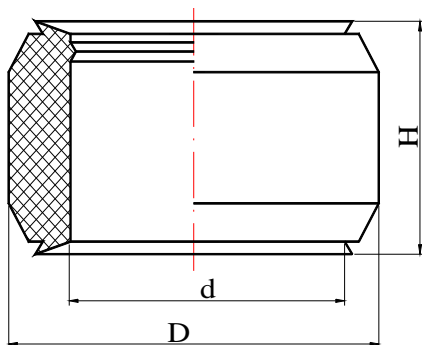


Figure 3  
Lower gasket

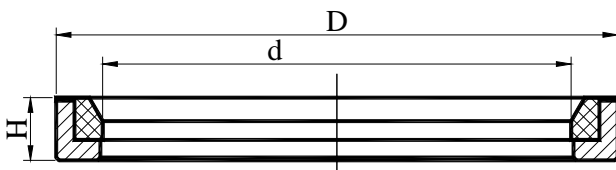


Figura 8  
Gasket ring-2pcs./kit

Table 6

Gaskets for LOK – SET packers				
Gasket Description	Casing inner diameter	Dimensions		
	Db	D	d	H
-	in (mm)	mm		
Upper gasket D140	6 5/8 ÷ 7	140	105,5	60,3
Lower gasket D140	(150,4 ÷ 154,8)			
Upper gasket D146	7	146	105,5	60,3
Lower gasket D146	(157,0 ÷ 161,7)			
Gasket ring	6 5/8 ÷ 7	95,4	79,6	10,7
Upper gasket D182	8 5/8	182	135,5	75
Lower gasket D182	(190,7 ÷ 201,2)			
Upper gasket D192	8 5/8	192	135,5	75
Lower gasket D192	(203,6 ÷ 208)			
Upper gasket D207	9 5/8	207	150,5	90
Lower gasket D207	(216,8 ÷ 224,4)			
Upper gasket D217	9 5/8	217	150,5	90
Lower gasket D217	(226,6 ÷ 230,2)			
Gasket ring	8 5/8 ÷ 9 5/8	125	106,5	12,5

# RUBBER PARTS

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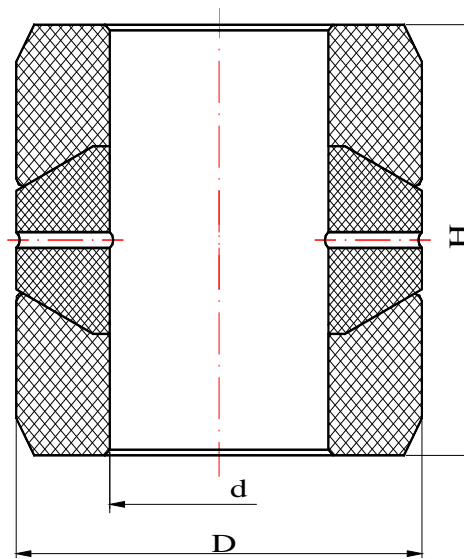


Figure 6  
Gaskets for LOK SET packers

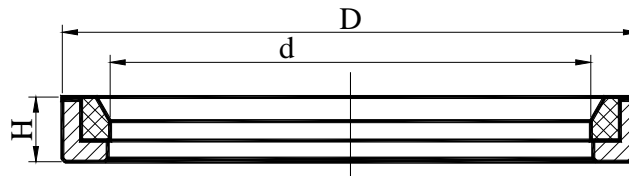


Figure 8  
Gasket ring

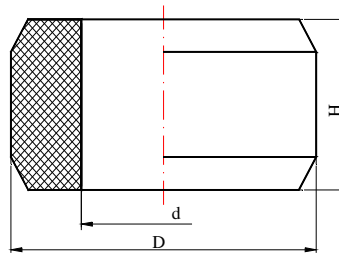
Table 7

Gaskets for LOK – SET packers				
Gasket Description	Casing inner diameter	Dimensions		
	Db	D	d	H
-	in (mm)	mm		
Sealing gasket D112	5 1/2 ÷ 5 3/4 (118,6 ÷ 121,4)	112	79	124
Sealing gasket D115	5 1/2 ÷ 5 3/4 (118 ÷ 126)	115	79	124
Sealing gasket D119	5 1/2 ÷ 5 3/4	119	79	124
Sealing gasket D125	5 3/4	125	79	124
Gasket ring	5 1/2 ÷ 6 5/8	77,2	67	10,5

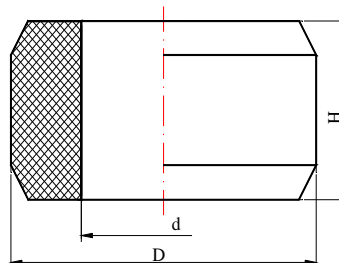
## RUBBER PARTS

### CONFIND CAMPINA

Edge gasket



Middle gasket



Edge gasket

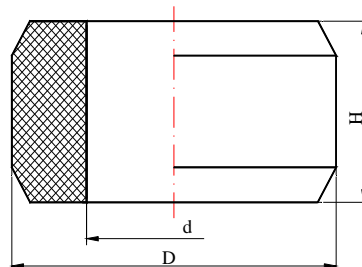


Figure 7

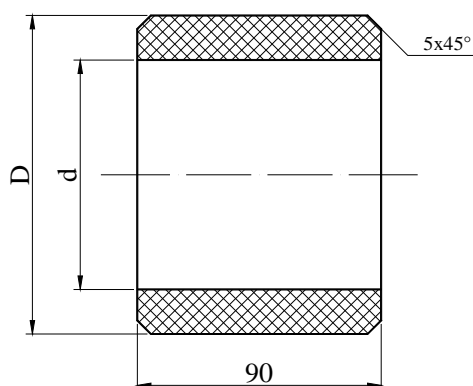
Gaskets for PRSMA, PRDM, RETAINER packers			
Gasket Description	Dimensions		
	D	d	H
-	mm		
Edge Gasket	95	66	80
Middle Gasket			
Edge Gasket	114	61	70
Middle Gasket			
Edge Gasket	114	81,5	70
Middle Gasket			
Edge Gasket	121	61	70
Middle Gasket			
Edge Gasket	121	81,5	70
Middle Gasket			
Edge Gasket	137	105,5	70
Middle Gasket			
Edge Gasket	142	105,5	70
Middle Gasket			

## RUBBER PARTS

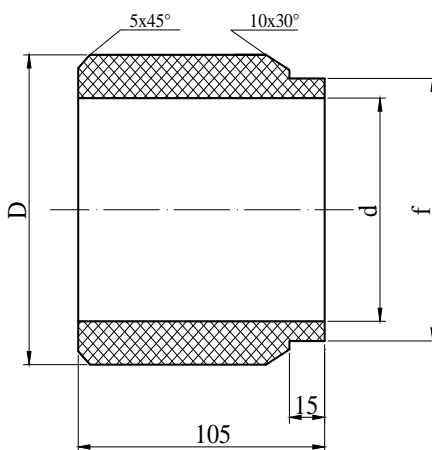
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### GASKET FOR PACKER - "VÂFORÂTA" TYPE

Gasket A



Gasket B



Packer size	d	D	f
in	mm	mm	mm
5 1/2	73	118	100
5 3/4	73	127	100
6 5/8	85	138	118
7	85	146	118

**Technical Conditions:**

Oil resistant rubber, SR 7278-99, hardness 75° ±5° Sh, temperature -30° ÷ +120°C.

**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Nominal Dimension;

# RUBBER PARTS

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## GASKETS FOR MUD PUMPS VALVES 2PN160÷1300

### AREA OF USE

These rubber gaskets are a component part of the mud pumps valves, used when pumping the oil and the drilling fluids.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The types of rubber gaskets for mud pumps are presented in Figure 1 and Table 1.
- The rubber compound used is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and with the hardness as presented in table 1.

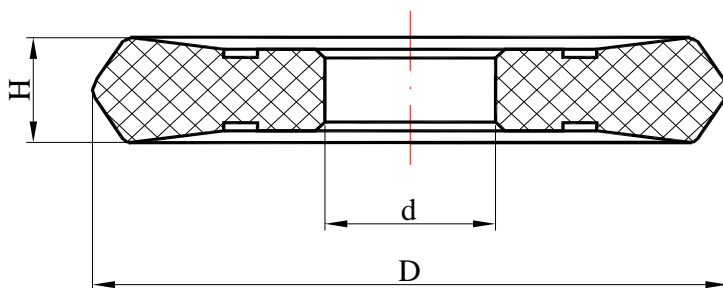


Figure 1

Table 1

Item	Dimensions			Rubber hardness
	D	d	H	
-	mm			°Sh
1	95	30,2	12	85° ± 5
2	110	30	20	75° ± 5
3	141,5	38	22,5	75° ± 5
4	190	45	31	85° ± 5

### Technical conditions:

- The gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness: 75°÷85° Sh.

### Data to be introduced in the order by the customer:

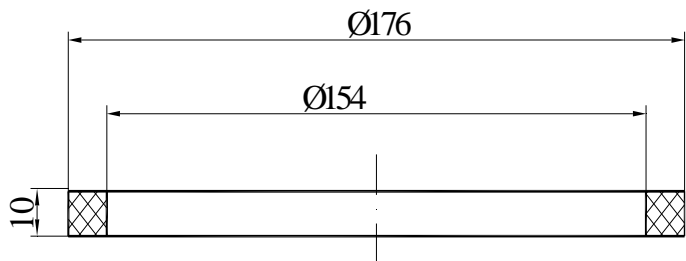
- 1) Description;
- 2) Drawing No.

Example: Gasket for Valve - no. 617.75 - 01.38.05.0

## RUBBER PARTS

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### GASKETS FOR SEALING MUD PUMPS VALVE COVER



2PN 400 and 3PN 465

Figure 1



2PN 700

Figure 2

#### **Technical Conditions:**

- Figure 1- the gaskets are made of rubber with textile inserts, oil resistant, STAS 11069-84, rubber hardness  $90^{\circ} \pm 7^{\circ} \text{ShA}$ .
- Figure 2- the gaskets are made of NBR rubber, oil resistant, with iron core, rubber hardness  $75^{\circ} \pm 5^{\circ} \text{ShA}$ .

#### **Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Dimensions.



# RUBBER PARTS

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## GASKETS FOR MUD PUMPS STEMS

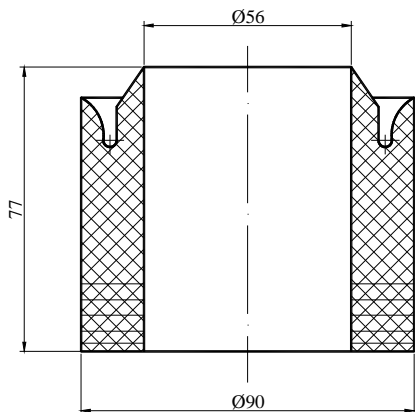


Fig. 1  
2PN 400

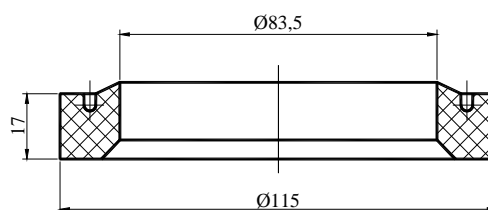


Fig. 2  
2PN 1250 - 1300

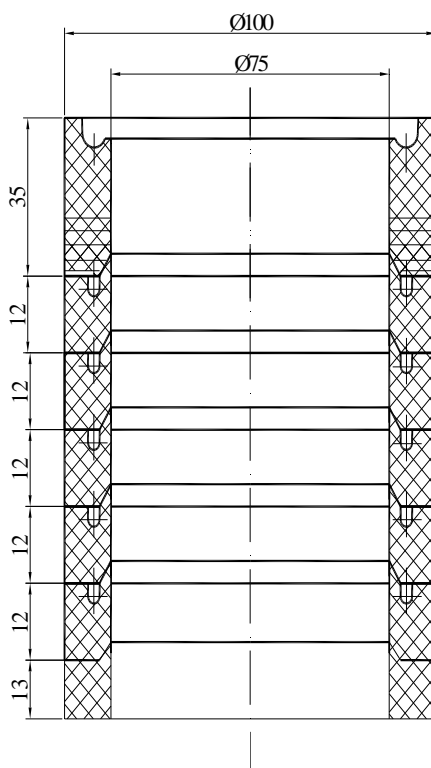


Fig. 3  
2PN 700  
Gasket kit for stuffing gland

### Technical Conditions:

- The gaskets in fig.1, 2, and 3 are made of oil resistant rubber, SR 7278-99, with textile insertion.
- Temperature range:  $-20^{\circ} \div 100^{\circ} \text{C}$ .

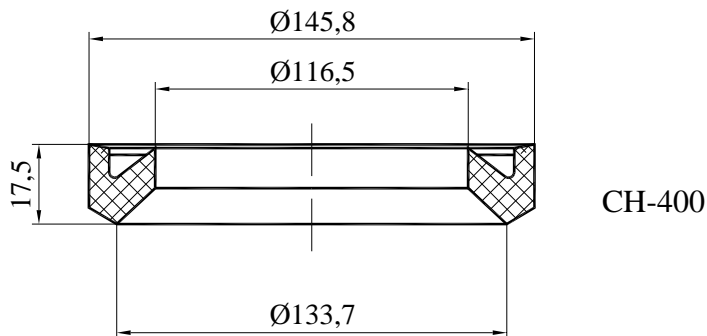
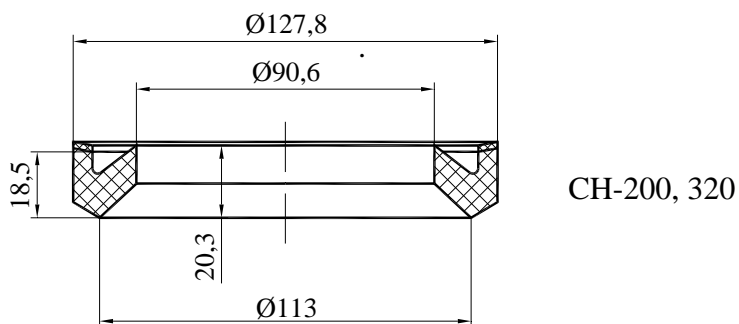
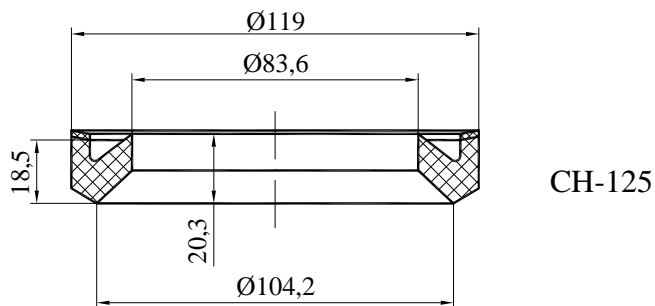
### Data to be introduced in the order by the customer:

- 1) Description
- 2) Dimensions

## RUBBER PARTS

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### SEALING GASKETS FOR SWIVEL CH-125, CH-200,320, CH-400



**Technical conditions:**

- The gaskets are made of rubber with textile insertions, STAS 11069-84.
- Rubber Hardness:  $90^{\circ} \pm 7^{\circ}$  Sh.

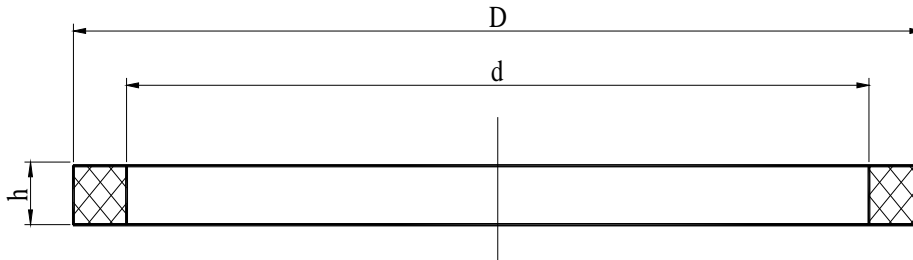
**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Dimensions.

## RUBBER PARTS

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### GASKETS FOR SEALING THE MUD PUMPS LINER



Pump type	Dimensions		
	D	d	h
	mm	mm	mm
2PN 160	160	140	15
2PN 400	235	205	15
2PN 700	265	230	20
2PN 1300	265	230	20
3PN 465	228	203	32

**Technical conditions:**

- The gaskets are made of rubber with textile insertions, STAS 11069-84.
- Rubber Hardness:  $90^{\circ} \pm 7^{\circ}$  Sh.
- Temperature:  $-35^{\circ} \div 100^{\circ}$  C.

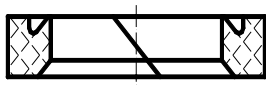
**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Dimensions

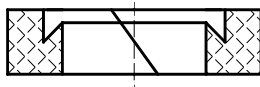
# RUBBER PARTS

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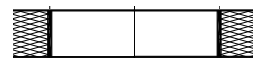
## GASKETS FOR THE INTERVENTION PUMP 5 x 10



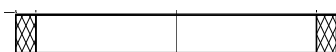
Gasket for stem 63.5 x 37.5 x 15



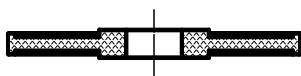
Gasket for stem 60 x 40 x 10



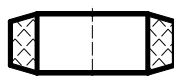
Gasket for stem 63 x 38 x 10



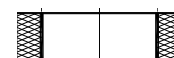
Gasket :	90 x 70 x 8	134 x 114 x 8	174 x 194 x 8
	95 x 80 x 10	136 x 110 x 10	202 x 182 x 10
	110 x 108 x 12	159 x 139 x 40	
	128 x 108 x 5	160 x 140 x 10	



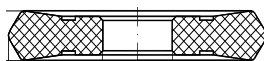
Protection cup 200 x 38 x 15



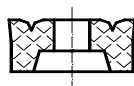
Gasket 45 x 31 x 15



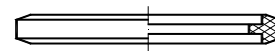
Guide 30 x 20.6 x 20.5  
Plug 32.5 x 17 x 18



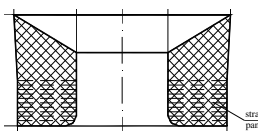
Clack valve 95 x 30.2 x 12



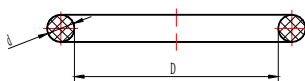
Safety valve 32 x 9 x 15



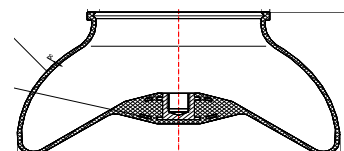
Ring valve 102 x 78 x 18



Mission Cups cone 3



O-Ring 96.7 x 7



Rubber bellows for spherical  
pulsating buffers AP 210-350

3 1/2" - 90.6 x 50.8 x 38.6  
4" - 103.6 x 50.8 x 41.2  
5" - 129 x 50.8 x 46.3



Rubber diaphragm 505 x 65 x 24

**Technical Conditions:**

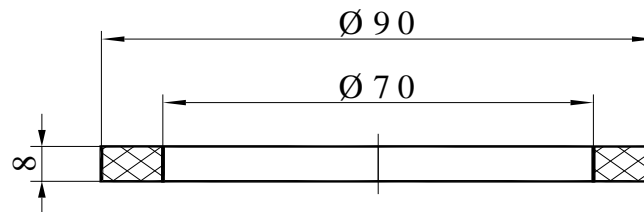
- Gaskets fig.1, 2, 3 are made of oil resistant rubber, SR 7278-99
- Rubber Hardness: 75°±5°Sh A.
- Gaskets fig.4, 5 are made of rubber with textile insertion, STAS 11069-84.

## RUBBER PARTS

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- Rubber Hardness:  $90^{\circ} \pm 7^{\circ}$  Sh.

### GASKETS FOR MUD PUMPS COLLECTOR 2 PN 160



**Technical Conditions:**

- Gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness:  $75^{\circ} \pm 5$  Sh.

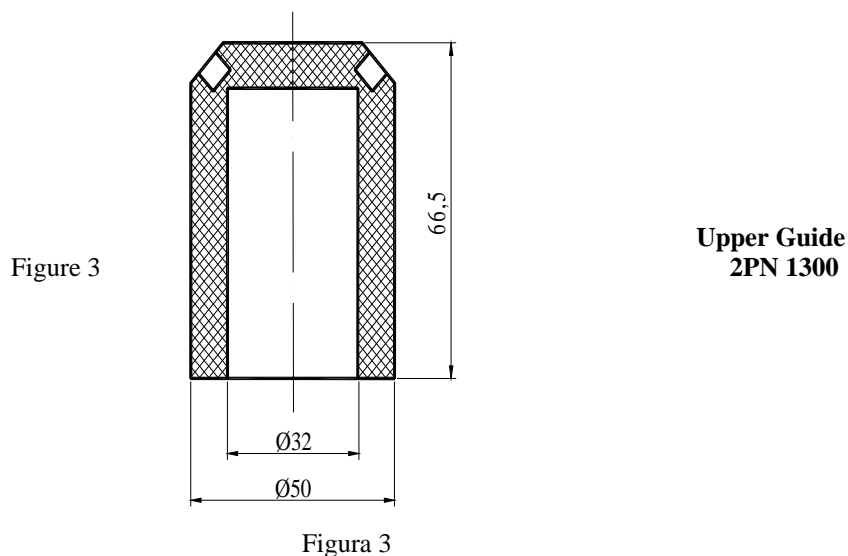
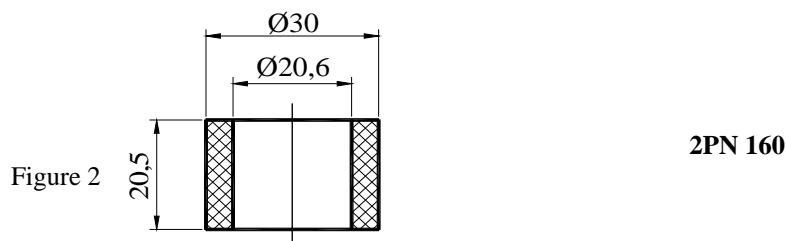
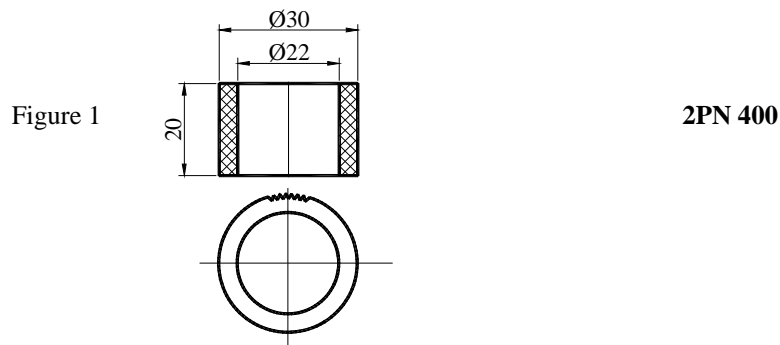
**Data to be introduced in the order by the beneficiary:**

- 1) Description.
- 2) Dimensions.

# RUBBER PARTS

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## GASKETS FOR MUD PUMP VALVE GUIDE



**Technical Conditions:**

- Gaskets in fig.1, 2, and 3 are made of oil resistant rubber, SR 7278-99.
- Temperature range:  $-30^{\circ} \div 100^{\circ} \text{ C}$ .
- Rubber Hardness:  $80^{\circ} \pm 5 \text{ Sh}$ ;  $75^{\circ} \pm 5 \text{ Sh}$ .

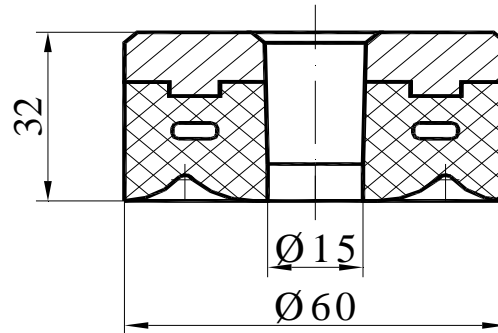
**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Dimensions.

## RUBBER PARTS

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### PISTON-SAFETY VALVES FOR MUD PUMPS



**3PN 465**  
**2PN 400÷1300**

***Technical Conditions:***

- Gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness: 75°±5 S A.
- Temperature range: -30°÷130°.

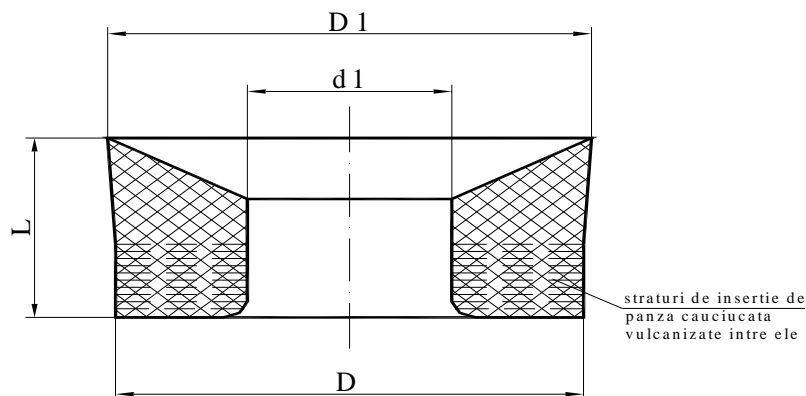
***Data to be introduced in the order by the customer:***

- 1) Description.
- 2) Dimensions.

# RUBBER PARTS

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## GASKETS FOR MISSION PISTON



Type (Dim.) (Taper K)	Nominal Dimension, in	Dimensions, mm			
		D1	D	d1	L
CON 3	3 1/2	90,6	88,4	50,8	38,6
	4	103,6	101,2		41,2
	5	129,0	126,5		46,3
CON V	4 1/2	116,5	112,5	76,0	38,3
	5	129,3	126,2		41,0
	5 1/4	135,6	132,5		42,3
	5 1/2	142,0	138,8		43,6
	5 3/4	148,4	145,2		45,0
	6 1/4	161,2	157,8		47,3
	6 3/4	174,0	170,5		50,3
	7 1/4	186,7	183,2		53,0
	8	206,0	202,2		57,0
CON VI	5 3/4	148,6	145,15	95,25	46,0
	6 3/4	174,0	170,4		51,0
	7 1/4	187,2	183,2		53,0
	8	206,0	202,2		57,0
	10	259,1	253,4	114,3	65,7

### Technical Conditions:

- Gaskets are made of oil resistant rubber, SR 7278-99.
- Layers of rubber textile insertion acc. to STAS 11069-84.
- Max. working temperature: 90°C.
- Rubber Hardness: 85±5°ShA.

### Data to be introduced in the order by the customer:

- 1) Type
- 2) Nominal Dimensions.



# RUBBER PARTS

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## PISTONS WITH REMOVABLE GASKETS FOR MUD PUMPS

### AREA OF USE

The pistons with removable gaskets are a component part of the mud pumps used in the oilfield industry. They are double action pistons and taper bore.

### CLASSIFICATION AND CONSTRUCTIVE

#### DESCRIPTION

Figure 1

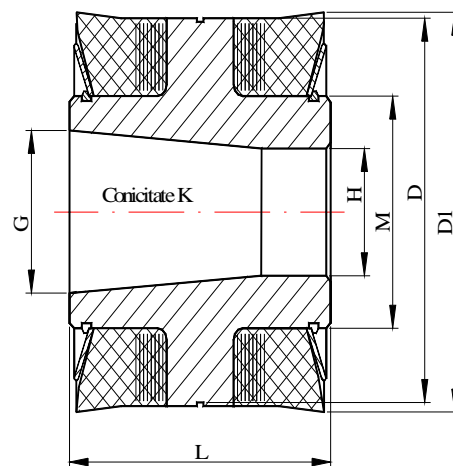
- The pistons with removable gaskets consist of a steel body (item 1) on which there are mounted two rubber gaskets (item 2) fixed on the piston body with buffers and metal safeties (item 3 and item 4) - see figure 1.

- The gasket is made of rubber and a pack of rubber cloth orderly seated, in horizontal layers.

- The pistons with removable gaskets are made in three types (sizes): cone 3; cone V and cone VI, with the nominal dimensions given in table 1.

- The rubber compound used is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and for temperatures of minus 20 ÷ 100 °C, with hardness of 85 ±5° Sh and good wear resistance.

- Upon request there can be manufactured removable gaskets as spare parts.



Type (Size) (Taper K)	Nominal Dimension	Dimensions				
		D	D1	L	H	G
-	in	mm				
CON 3	3 1/2	88,9	90,6	124	32,5	37,44
	4	101,6	103,6			
	5	126,5	129,0			
CON V	4 1/2	113,9	116,5	125	49,5	56,616
	5	126,6	129,3			
	5 3/4	146,65	148,4			
	6 3/4	171,05	174,0			
	7 1/4	183,75	186,7			
CON VI	8	202,8	206,0	145	60,325	69,316
	5 3/4	145,65	148,6			
	6 3/4	171,05	174,0			
	7 1/4	183,75	187,2			
	8	202,8	206,0			

Data to be introduced in the order by the beneficiary:

1) Description;

2) Type (size) of piston or gasket;

3) Nominal Dimension.

Example: **Piston with removable gaskets cone V 5 3/4;**

or: **Removable Gasket cone V 5 3/4.**

# RUBBER PARTS

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## MONOBLOCK PISTONS FOR MUD PUMPS

### AREA OF USE

The monoblock pistons are component parts of the mud pumps which are destined to circulate the drilling fluids.

### PERFORMANCE LEVEL

The monoblock pistons for mud pumps are made acc. to STAS 5683.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The monoblock pistons consist of one steel body (item 1) on which is vulcanized the rubber gasket (item 2) - see figure 1.
- The monoblock pistons are made as A type – after the shape of the steel body and size I - after the size of the taper end of the stem (acc. to STAS 5683).
- The nominal dimensions of the monoblock pistons are indicated in table 1.
- The rubber mixture used is based on acrylonitrile – butadiene elastomer (NBR), oil resistant and temperatures down to minus 30 ÷ 100 °C, with hardness 75 ±5° Sh.

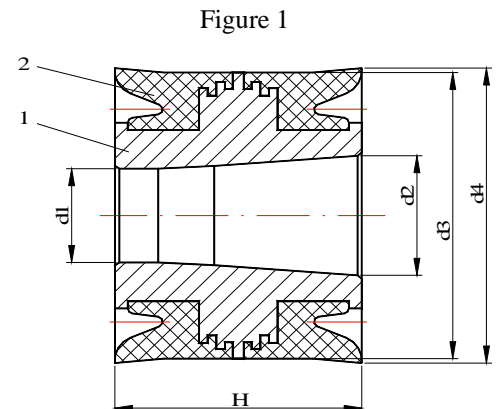


Table 1

Nominal dimension	Piston Type	Size of the taper end	Dimensions				
			d1	d2	d3	d4	H
in	-	-	mm				
3	A	I	3 1	39,5	75	77	124
3 1/2					90	92	
4					100	102	
4 1/2					115	117	
5					125	127	

**Data to be introduced in the order by the customer:**

- 1) Description;
- 2) Nominal dimension;
- 3) Piston type.

Example : **Monoblock Piston 3 1/2 type I A**

# RUBBER PARTS

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## RUBBER GASKETS FOR SHOES AND COLLARS

### AREA OF USE

The gaskets are component parts of the cementing shoes and collars, used for guiding and cementing the casing strings which are introduced in the well hole.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The rubber gaskets for shoes and collars are made in four typo dimensions, acc. to table 1 and figure 1.
- The rubber compound which is used when manufacturing the gaskets is based on acrylonitrile – butadiene elastomer ( NBR ), oil resistant and temperatures down to minus 30 ÷ 130 °C, with hardness of 75 ±5° Sh.

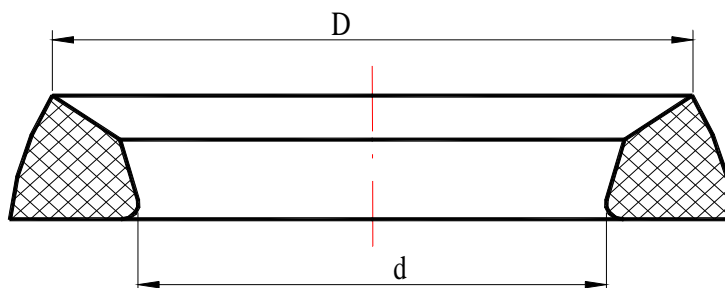


Figure 1

Size of float valve	Nominal Dimension	Dimensions	
		D	d
-	in	mm	
Type A	4 1/2 ÷ 5	63	44
Type B	5 1/2 ÷ 7	81	58
Type C	7 5/8 ÷ 9 5/8	112	78
Type D	10 3/4 ÷ 20	145	110

*Data to be introduced in the order by the customer:*

1) Description;

2) Size of Float Valve (type) and/or nominal dimension.

Example: Gasket for shoe type B (5 1/2 ÷ 7)

## RUBBER PARTS

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### RUBBER PROTECTORS FOR SUCKER RODS (BETTIS type)

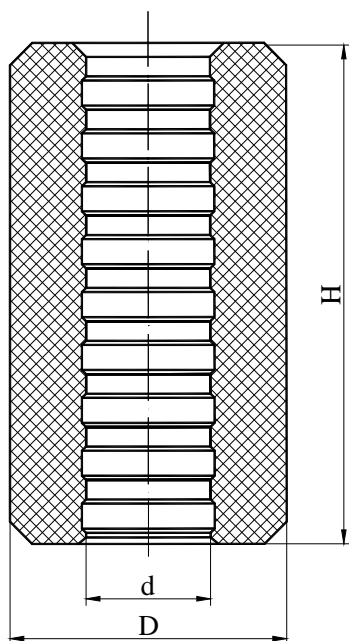
#### AREA OF USE

The rubber protectors are mounted on the sucker rods equipped with special joints, for the purpose to protect the tubing string through which the drilling is performed.

#### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

The rubber protectors are made of compound acrylonitrile – butadiene elastomer with the hardness of  $63 \pm 5^\circ$  Sh and for temperatures of down to minus  $35 \div 100^\circ \text{C}$ .

The nominal sizes of the protectors are presented in the below table:



Nominal Diameter		Rubber Protector Dimensions		
mm	in	d	D	H
73	2 7/8	45	100	180
89	3 1/2	50	104	
114	4 1/2	72	132	
127	5	86	148	

*Data to be introduced in the order by the customer:*

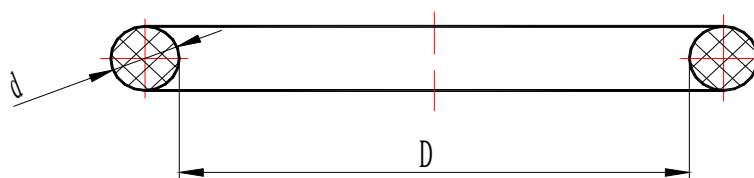
- 1) Description: *Bettis type Gasket;*
- 2) Nominal Dimension.

*Example: Bettis type Gasket 2 7/8.*

## RUBBER PARTS

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### „O” RINGS - CONUS (STONE) GASKETS FOR X-MAS TREE



I.O type	d1xd2 (mm)
I.O 522	Ø139xØ7
I.O 523	Ø146,7xØ7
I.O 524	Ø149xØ7
-	Ø149,3xØ5,7
I.O 525	Ø156,7xØ7

**Technical Conditions:**

- The gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness: 75°±5 Sh.

**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Dimensions.

# RUBBER PARTS

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## „O” RINGS

### AREA OF USE

The rings with round cross section are used for fixed or mobile sealings, for forward motion and also alternate rotation.

### PERFORMANCE LEVEL

The „O” rings are made in compliance with STAS 7320 - 65, STAS 7320 - 71 and STAS 7320/2 - 80, SR ISO 3601-1/2000 (clearance for dimensions for class II of precision).  
SR ISO 3601-3/2005 – Acceptance criteria – admitted defects.

The physico-mechanical properties of mixtures of which the „O” rings are manufactured are given by STAS 7320/1-80.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

- The „O” rings are made of rubber and have a circular cross section.
- The diameter of the cross section „ **d**” (see figure 1) is standardized, as follows:  
**1,6 ; 1,8 ; 2,4 ; 2,65 ; 3 ; 3,5 ; 3,55 ; 5,3 ; 7 and 8,4 mm.** There are also “O” rings manufactured with other sections, up to 12.7 mm.

*Upon customer’s request, other dimensions of the cross section diameter can also be made.*

- The „O” rings are made of rubber compound in the solutions presented in table 1.
- The „O” rings are made by means of our own dies or made available by the customer.

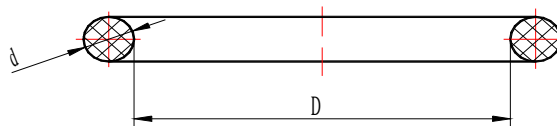


Figure 1

Elastomer	STAS CLASS	Properties	Use Temperatures (°C)	Hardness (° ShA )
Butadiene-Acrylonitrile Rubber (NBR)	<b>FO 80</b> <b>FO 90</b>	- Good resistance to petroleum products, good gas impermeability, not resistant to aromatic hydrocarbons.	-35° ÷ 110°C	75° ÷ 90° ±5
		- Average resistance to petroleum products; for low temperatures	-46° ÷ 90°C	73° ÷ 85° ±5
Hydrogenated Nitrile Rubber (HNBR)	-	- Good resistance to petroleum products; -Good resistance to corrosive environment (H <sub>2</sub> S+CO <sub>2</sub> ).	-50° ÷ 150°C	80° ±5
Silicone Rubber (HO)	<b>HO 75</b>	- foarte rezistent la caldura , flexibilitate la temp. scazute , nerezistent la carburanti .	-55° ÷ 200°C	75° ±5
Fluorurat (FKM)	<b>IO 80</b>	-rezistentă foarte bună la caldura , produse petroliere.	-15° ÷ 200°C	80° ±5

#### Data to be introduced in the order by the customer:

1) Description: **Inel „O” sau „IO”;**

2) Inner Diameter **D** x **d** section diameter;

Example: **IO 132, 23.6 x 1.8- STAS 7320-65; A2360G- SR ISO 3601-1;**

**18000224 (IO 22.4 x 1.8) - STAS 7320/2-80; 0216-24 (IO 21.6 x 2.4) - STAS 7320-71**

3) *If the case there will be specified the requirements for the manufacturing material or there will be mentioned the functioning conditions (working environment, temperature etc.).*

# RUBBER PARTS

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## RUBBER SLEEVES FOR ELASTIC CLUTCHES WITH BOLTS

### DOMENIU DE UTILIZARE

These elastic clutches are used to compensate the deviations from the location of the clutched axis, providing – at the same time – the absorption of shocks and torsional vibrations.

### CLASSIFICATION AND CONSTRUCTIVE DESCRIPTION

The elastic clutches are manufactured in compliance with STAS 5982-74 or according to the customer's request.

(ex. CEB 5-8 ; CEB 8-8 , etc)

- The rubber compound used for these gaskets is based on butadiene-acrylonitrile elastomer (NBR), resisting to petroleum products and temperatures  $-30^{\circ}\text{C} \div +100^{\circ}\text{C}$  with hardness of  $70 \pm 5^{\circ}\text{ShA} \div 85 \pm 5^{\circ}\text{ShA}$ .

- The elastic clutches are made with own vulcanization dies or made available by the customer.

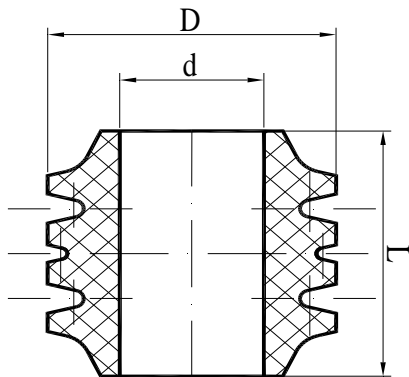


FIG 1

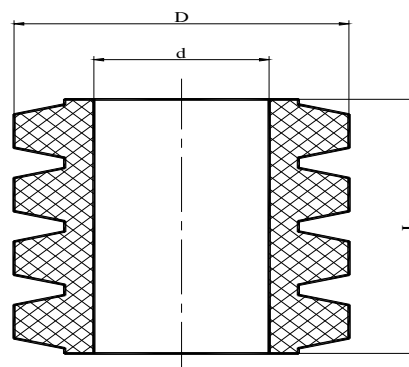


FIG 2

ITEM	FIG 1			FIG 2		
	Sizes, mm					
	D	d	L	D	d	L
19 x 10 x 20				19	10	20
29 x 14 x 30	29	14	30			
29 x 15 x 30	29	15	30			
31.5 x 13 x 37.5	31,5	13	37,5			
42 x 24 x 50	42	24	50			
44 x 20 x 40	44	20	40			
49 x 20 x 55	49	20	55			
56.5 x 30 x 56				56,5	30	56
56.5 x 23 x 56	56,5	23	56			
62 x 31 x 56	62	31	56			
63.5 x 32 x 56	63,5	32	56			
70.5 x 38 x 72				70,5	38	72
86.5 x 45 x 88				86,5	45	88
98.5 x 55 x 98				98,5	55	98

*Data to be introduced in the order by the customer:*

1) Description: Rubber sleeve for clutch with bolts

Example: BE Ø 29 x Ø 15 x 30

# RUBBER PARTS

CONFIND CAMPINA

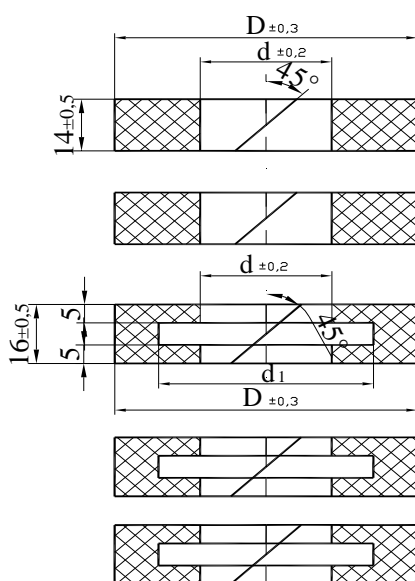
## SET OF GASKETS FOR POLISHED ROD PACKERS

### CONSTRUCTIVE DESCRIPTION:

The set of gaskets from the component parts of the stuffing box have the purpose to provide the sealing between the body of the stuffing box and the polished rod, preventing the exit of the fluid and of the gas from the tubing string, straight in the atmosphere.

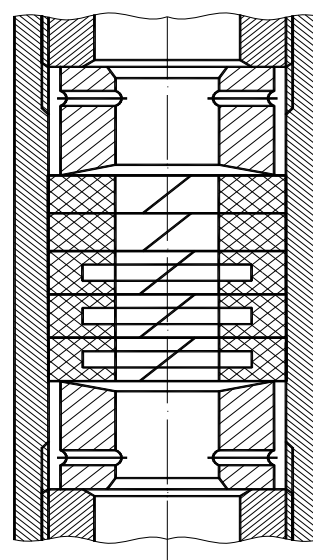
### Set of gaskets for Polished Rod packer

### Packer for Polished Rods



“M” TYPE

“U” TYPE



“M” TYPE				“U” TYPE				
TYPE	D mm	d mm	Pcs. set	TYPE	D mm	d mm	d1 mm	Pcs. set
M 29	69	29	2	U 29	69	29	49	3
M 30		30		30		49		
M 32		32		32		49		
M 38		38		38		57		

### TECHNICAL CONDITIONS:

The gaskets are manufactured from compound resistant to petroleum products, according to SF1 - CONFIND IMPEX.

### Data to be introduced in the order by the customer:

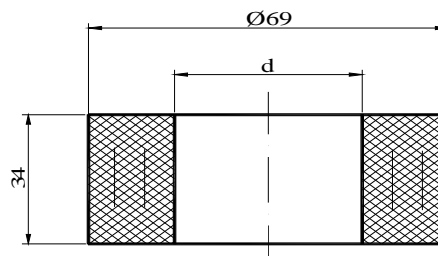
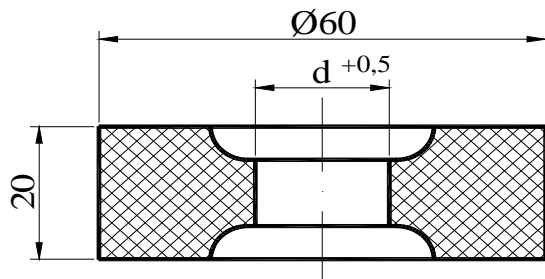
- 1) Type of gasket.
- 2) Dimensions.



## RUBBER PARTS

CONFIND CAMPINA

### OIL SEVER FULLER GASKETS



Piston wire diameter (mm)	d + 0,5 mm
12	11
14	13
16	15
18	17

Gasket dimension	d
1 1/4in	$\text{Ø}31,7\text{mm}$
1 1/2in	$\text{Ø}38,1\text{mm}$

#### Technical Conditions:

- The gaskets are made of oil resistant rubber, SR 7278-99;
- Gaskets are made of rubber with insertion resistant to oil products, SR 7278-99; Stas 11069-84
- Rubber hardness:  $75^{\circ} \pm 5^{\circ}$  Sh.

#### Data to be introduced in the order by the customer:

- 1) Description.
- 2) Dimensions.

## RUBBER PARTS

CONFIND CAMPINA

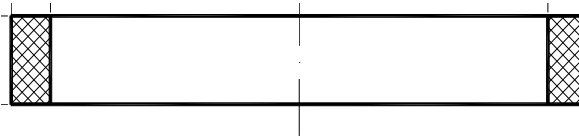
### GASKETS FOR HANGER 2 3/8; 2 7/8 in

**2 3/8; 2 7/8 in**

Ø 110 x ø 95 x 16

**3 1/2**

Ø 150 x ø 120 x 12



***Technical Conditions:***

- Gaskets are made of textile rubber, oil resistant, STAS 11069-84.
- Rubber Hardness:  $90^{\circ} \pm 5^{\circ}$  ShA.

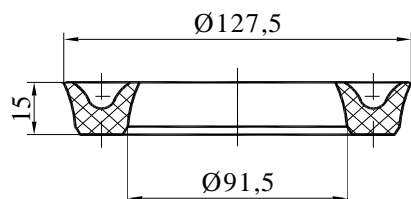
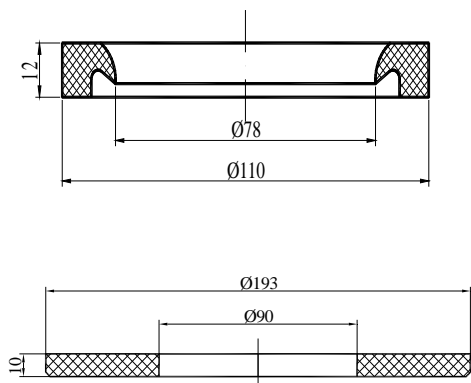
***Data to be introduced in the order by the customer: Description, dimensions.***

# RUBBER PARTS

CONFIND CAMPINA

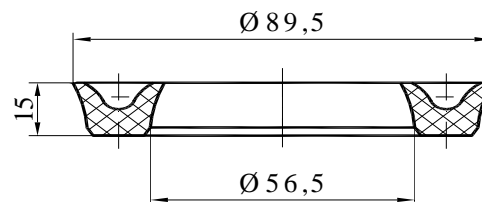
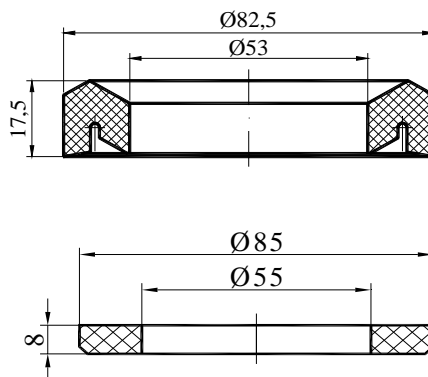
## SEALING GASKET FOR SWIVEL

**CH-75**

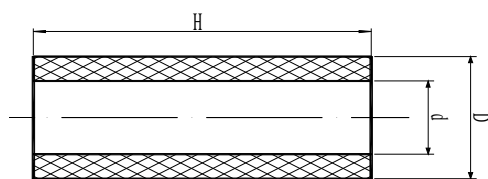


*Gasket MV - 90 x 123 x 15*

**CH 50**



*Gasket V 55 x 85 x 15*



Roller  $\phi$  50 x  $\phi$  13 X 120

### **Technical Conditions:**

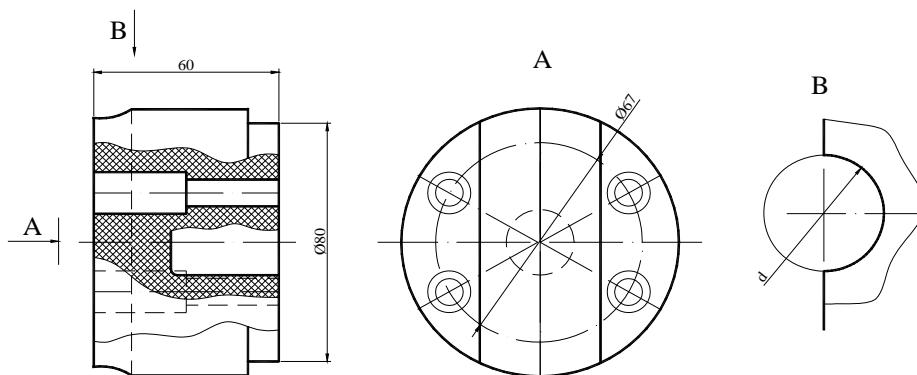
- Gaskets are made of textile rubber, resistant to petroleum products, STAS 11069-84; Ruber hardness  $90 \pm 5^\circ$  ShA.
- The U sleeves, roller, are made of rubber resistant to petroleum products, according to SR 7278;
- Rubber hardness:  $85 \pm 5^\circ$  ShA.

**Data to be introduced in the order by the customer:** - Description, dimensions.

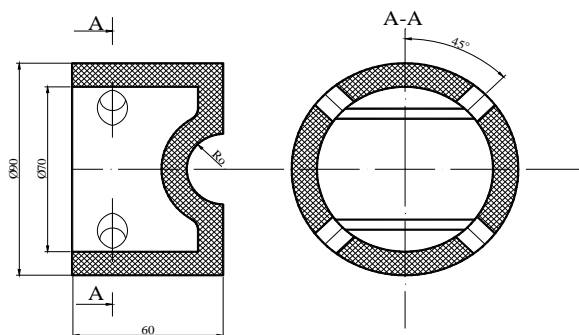
# RUBBER PARTS

CONFIND CAMPINA

## GASKETS –PISTON DIES FOR SUCKER RODS OR POLISHED RODS



Sucker Rods			Polished Rods
Nominal Dimension ( d ), in , mm			
<b>3 / 4"</b>	<b>7 / 8"</b>	<b>1"</b>	<b>1 1/4"</b>
19,1	22,2	25,4	31,75



Sucker rods		Polished Rods
Nominal Dimension ( d ), in , mm		
<b>3 / 4"</b>	<b>7 / 8"</b>	<b>1 1/4"</b>
19,0	22,1	31,8

### Technical Conditions:

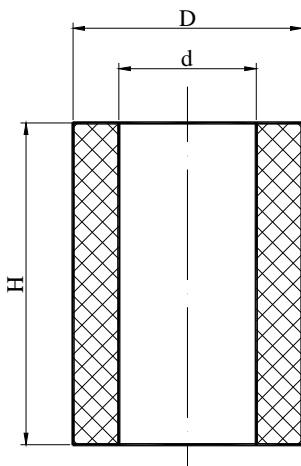
- Gaskets are made of textile rubber, oil resistant, SR 7278-99.
- Rubber Hardness: 75°±5° Sh.
- Temperature: -30°÷ +100°.

**Data to be introduced in the order by the customer:** - Description, nominal dimension.

## RUBBER PARTS

CONFIND CAMPINA

### RUBBER CLUTCH FOR "XOB" COMPRESSORS



ITEM	DIMENSIONS, mm		
	D	d	H
45 x 18 x 100	45	18	100
50 x 30 x 70	50	30	70
52 x 25 x 14	52	25	14
55 x 30 x 100	55	30	100
55 x 33 x 15	55	33	15
58 x 32 x 15	58	32	15
70 x 40 x 15	70	40	15
86 x 70 x 6	86	70	6

**Technical Conditions:**

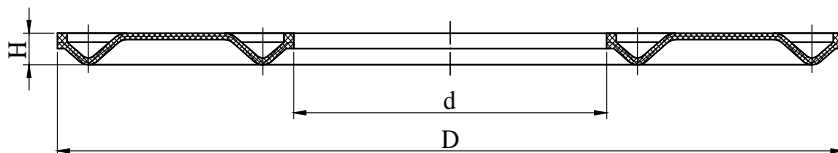
- Gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness:  $75^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-30^{\circ} \div +100^{\circ}$  C.

**Data to be introduced in the order by the customer :** - Description, nominal dimension

# RUBBER PARTS

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## RUBBER DIAPHRAGM WITH TEXTILE INSERTION

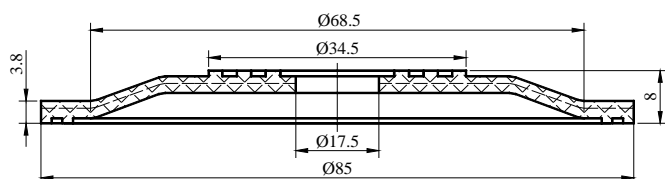


### Rubber Diaphragm – Hydraulic winch TW 40

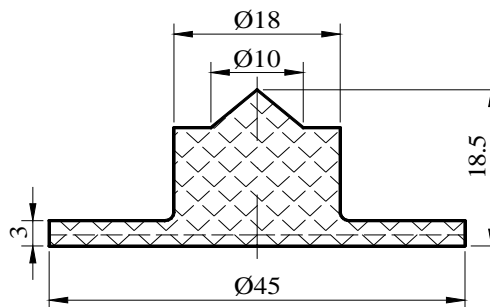
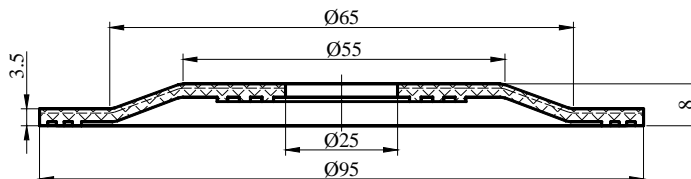
Dimensions (mm)		
D	d	H
547	235	24,5

Dimensions (mm)		
D	d	H
500	240	22
652	262	24,5
728	262	32

### Diaphragm control valve; control valve



### Distributor diaphragm



Quick drain valve diaphragm

### Technical conditions:

- The diaphragms are made of oil resistant rubber, with textile insertion, SR 7278-99 and STAS 11069-84.
- Rubber Hardness:  $75^{\circ} \pm 5^{\circ}$  ShA.
- Temperature:  $-30^{\circ} \div +100^{\circ}$  C.

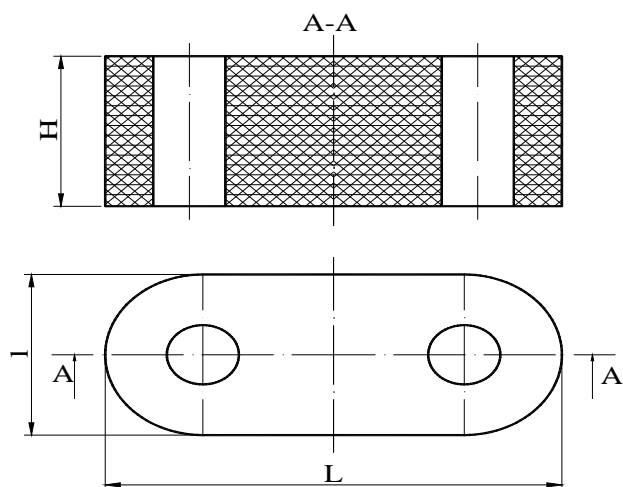
Data to be introduced in the order by the customer: - Description, dimensions.

# RUBBER PARTS

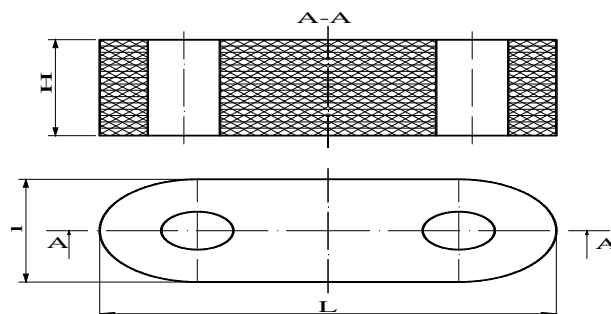
CONFIND CAMPINA

## TEXTILE GASKETS FOR DOLLIES

**Thick Textile gasket**



**Slim Textile Gasket**



Gasket Type	Dimensions (mm)		
	L	l	H
Thick textile gasket	152	57	45
Slim textile gasket	152	57	9

**Technical Conditions:**

- The gaskets are made of rubber with textile insertions, ordered in cross section, oil resistant, SR 7278-99; STAS 11069-84;
- Rubber Hardness:  $85^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-30^{\circ} \div +100^{\circ}$ .

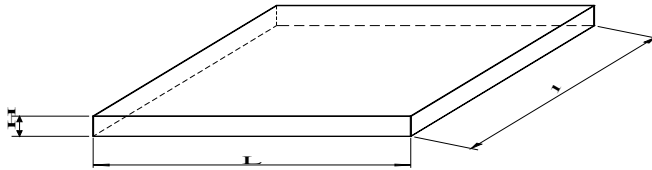
**Data to be introduced in the order by the customer:**

- 1) Description.
- 2) Type of gasket and dimensions.

## RUBBER PARTS

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### RUBBER PLATES



Dimensions, mm	
L x l	H (thickness)
525 x 525	2 ÷ 12
535 x 535	2 ÷ 6
800 x 800	15 ÷ 60

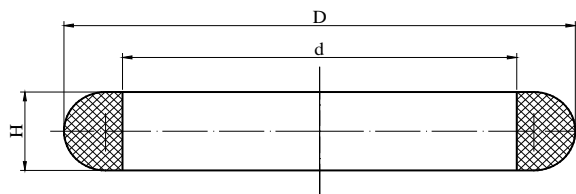
#### Technical Conditions:

- The plates are made of oil resistant rubber, SR 7278.
- Upon request the plates will be made with textile insertion.
- Rubber Hardness:  $65^{\circ} \pm 5^{\circ} \div 85^{\circ} \pm 5^{\circ}$  Sh A.

#### Data to be introduced in the order by the customer:

Description – dimensions- rubber; textile insertion rubber (no of insertions.-arrangement)

### PROTECTION SLEEVES FOR OXYGENE TUBES



TYPE	DIMENSIONS , mm		
	D	d	H
1	254	<b>200</b>	34,5
2	271	<b>218</b>	44

#### Technical Conditions:

- The sleeves are made of natural rubber, nitrile, SR 7277; SR 7278.
- Rubber Hardness:  $65^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-40^{\circ} \div +70^{\circ}$  C.

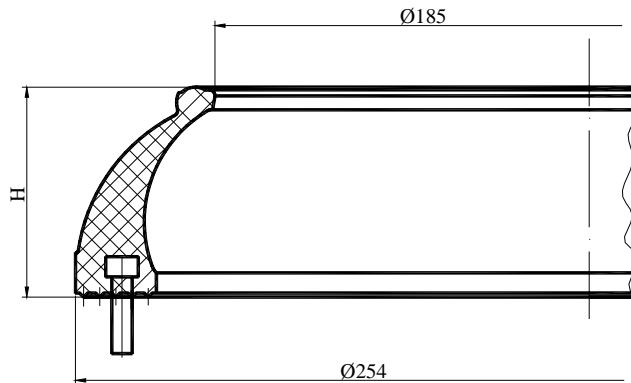
Data to be introduced in the order by the customer: description – dimensions.



## RUBBER PARTS

CONFIND CAMPINA

### STAR-WHEEL GASKET



***Technical Conditions:***

- The diaphragms are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness:  $75^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-30^{\circ} \div +100^{\circ}$  C.

***Data to be introduced in the order by the customer:***

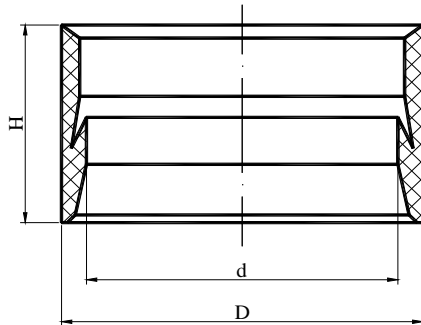
- 1) Description.
- 2) Dimensions.

# RUBBER PARTS

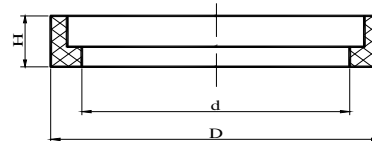
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## SEALING GASKETS FOR "N" TYPE OVERSHOTS

Sealing Gasket (1)



Sealing Ring (2)



POS.	Nominal Dimension (mm)	Gasket Dimension (mm)		
		D	d	H
1	Ø 92	81	40	90
			46	
			58	
2			63	30
1	Ø 115	105	51	90
			46	
			58	
			71	
2		101	84	30
1	Ø 126	116	58	95
			71	
			87	
2			92	30
1	Ø 140	126	58	100
			71	
			87	
2			104	30
1	Ø 152	140	58	110
			71	
			87	
2		130	112	30

### Technical Conditions:

- Gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness:  $75^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-30^{\circ} \div +100^{\circ}$  C.

### Data to be introduced in the order by the customer:

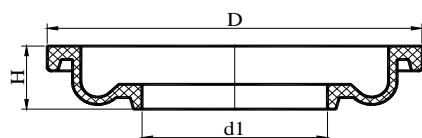
- 1) Description.
- 2) Nominal Dimension and Gasket dimension.

# RUBBER PARTS

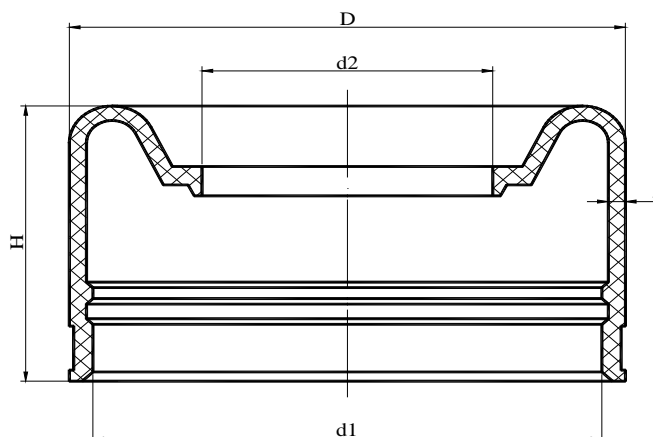
CONFIND CAMPINA

## GASKETS KITS FOR PUMPING GROUPS WITH EXCENTRIC SCREW

Sleeve I



Bellow II



Description of gasket	Sleeve I				Bellow II					Pump type
	DIMENSIONS , mm									
	D	d1	d2	H	D	d1	d2	H	g	
II					120	107	62	71,5	5	2024 I; 1024
I	79	38	-	16,5						
II					137	119	68	75	4	2024 II; 2048 ; 1048
I	89	44	-	16,5						
I ( II )					186	170	85	100	6	15100
II ( I )	126	56	-	22						
I					158	144	78	95	5	Prototype
II	114	50	-	23						

### Technical Conditions:

- Gaskets are made of oil resistant rubber, SR 7278-99.
- Rubber Hardness:  $65^{\circ} \pm 5^{\circ}$  Sh.
- Temperature:  $-30^{\circ} \div +100^{\circ}$  C.

### Data to be introduced in the order by the customer:

- 1) Description of gasket, pump type.
- 2) Dimensions.

# RUBBER PARTS

CONFIND CAMPINA

## BASKET TYPE RUBBER GASKETS FOR SWABS

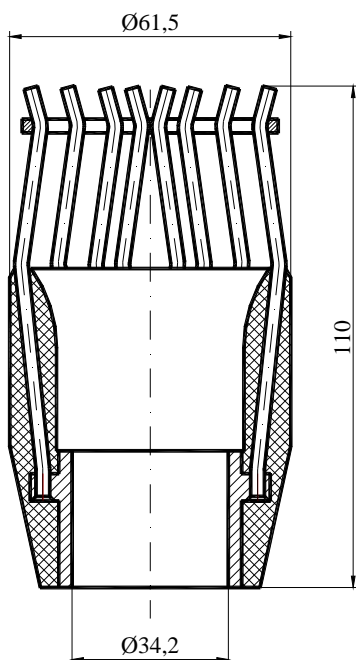
Basket type rubber gaskets are used to putting the wells into production by swabbing.

Working environment: acid water and salt water, sand and oil emulsions.

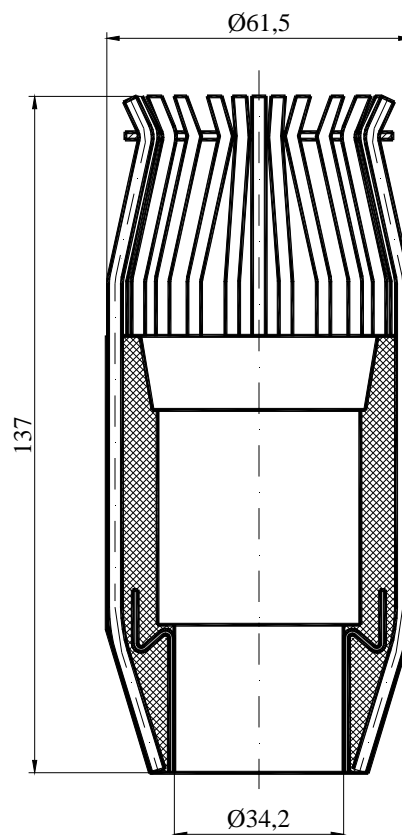
Material: Rubber compound resisting to working environment, resisting to abrasion, based on NBR elastomer.

Hardness:  $70 \pm 5^{\circ}\text{ShA}$ .

**Garnitura I**



**Garnitura II**



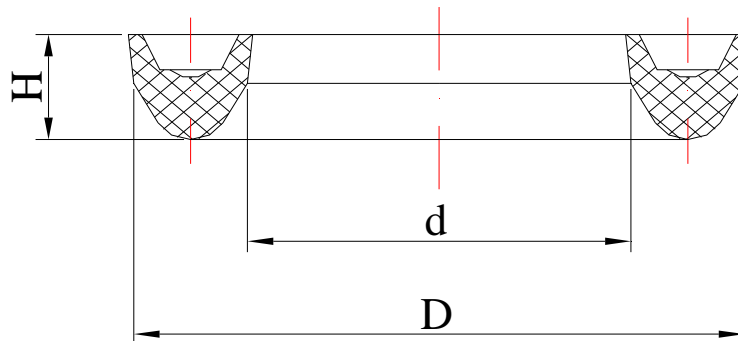
Dimensions:

Tubing		Gasket I	Gasket II
Diameter, mm; in		Dimensions	
outer	inner	D x d x H	
73	62	$\text{Ø } 61.5 \times 34.2 \times 110, (12^{\circ})$	$\text{Ø } 61.5 \times 34.2 \times 137 (17^{\circ})$
2 7/8		No. of wires on the basket = 18	No. of wires on the basket = 32

# RUBBER PARTS

CONFIND CAMPINA

## RUBBER SLEEVES FOR VALVES



Pos.	VALVE TYPE	SLEEVE TYPE	Dimensions (mm)		
			D	d	H
1	DN 50, 2", PN 140	24 / 40 x 8.5	40	24	8.3
2	DN 65, 3" x 350	*	44	25.4	10
3	DN 65, 2 1/2"; 3", PN 140	30 / 50 x 10	48	28	10.2
4	DN 50, 2", 2 9/16, PN 210,350	*	50	30	10.2
5	DN 65, 2", 2 1/2", PN 350	*	52	32	10.2
6	DN 80, 2", 4", PN 210	*	58	34	12.2
7	2 1/16 x 700	36 / 58 x 11.5	58	36	11.5
8	DN 65, 2 9/16" x 700, 1050	50 / 70 x 10	70	50	10.2

## UNION GASKETS

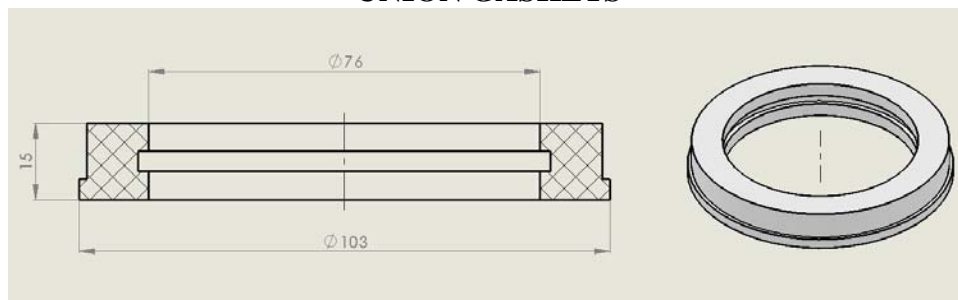


Fig.1

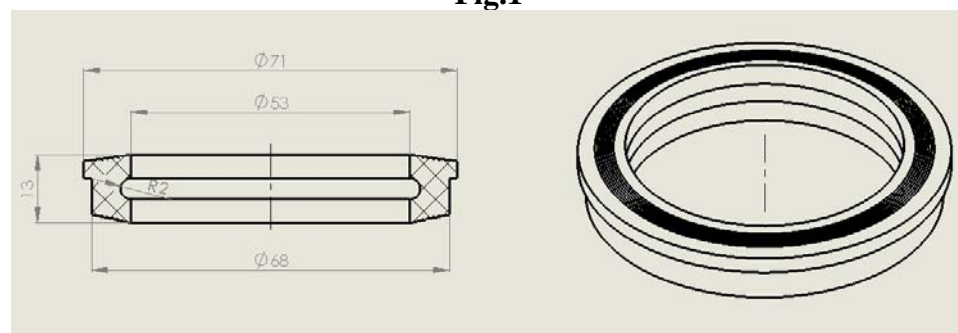


Fig.2