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Rubber Types



NATURAL RUBBER

NR

APPLICATIONS: Torsional vibration dampers, engine mounting, rubber-metal suspension elements, diaphragms..

CHARACTERISTICS: High mechanical and tear strength, elasticity as well as good low temperature behavior and low compression set.

HIGH SWELL IN Mineral oils, greases and fuels.

GOOD RESISTANCE TO SWELLING IN Water if temperature is not to high and glycol based oils.

TEMPERATURE RANGE FOR USE: -60 °C to +80 °C

After exposure to higher temperatures, it can soften an initial hardening.

POLYBUTADIENE RUBBER

BR

APPLICATIONS: V-belt and bands.

CHARACTERISTICS: High elasticity, resistance to abrasion and degradation by light, very good hot and cold properties.

GOOD RESISTANCE TO SWELLING IN Dilute acids and bases, in alcohols and water.

HIGH SWELL IN Hydrocarbons.

TEMPERATURE RANGE FOR USE: - 60°C to +100°C

STIRENE-BUTADIENE RUBBER

SBR

APPLICATIONS: Dynamic parts, technical goods, conveyor bands etc.

CHARACTERISTICS: Abrasion resistance, ageing and heat resistance is better than NR.

GOOD RESISTANCE TO SWELLING IN Inorganic and organic acids, as well as alcohols and water, and break fluids based on glycol.

HIGH SWELL IN Mineral oils, lubrication greases and petroleum.

TEMPERATURE RANGE FOR USE: -50°C to +100°C

ETILENE - PROPILENE – DIENE RUBBER

EPM/EPDM

APPLICATIONS: Radiator and heating hoses, washing machines belows and fittings, conveyor belts, roller covering and best suited for extruded profile sections and sealing strips which are exposed to weathering

CHARACTERISTICS: Very good resistance to ozone, ageing and weathering and are.

GOOD RESISTANCE TO SWELLING IN Hot water, steam, wash liquids oxidising media and diluted acids.

HIGH SWELL IN Aliphatic, aromatic and chlorinated hydrocarbons.

TEMPERATURE RANGE FOR USE: -50°C, +150°C dir.

BUTYL RUBBER

IIR

APPLICATIONS: Watering hoses, inner tyre, conveyor belt and mechanical parts.

CHARACTERISTICS: Very low gas permeability, very good resistance to weathering and ageing and good electrical insulation..

GOOD RESISTANCE TO SWELL IN Organic and inorganic acids, break fluids based on glycol, vegetable and animal oil and esters.

HIGH SWELL IN Mineral and greases, petroleum and aliphatic, aromatic and chlorinated hydrocarbons.

TEMPERATURE RANGE FOR USE : - 40°C, +120°C dir

ACRYLONITRILE – BUTADIENE RUBBER

NBR

APPLICATIONS: Because of high oil and fuel resistance producing of sealing elements and hoses ,hydraulic and pneumatic fittings and covering of cylinder.

CHARACTERISTICS: High oil resistance and physical properties.

Amount ACN content of polymer (%18-50) effects

-swelling resistance in mineral oils, greases and fuels,

-elasticity

-cold flexibility ,

-gas permeability,

-compression set.

GOOD RESISTANCE TO SWELLING IN Aliphatic hydrocarbons, eg, propane, butane, petroleum, mineral oils, vegetable and animal oils, greases, light heating oils and diesel fuel.

HIGH SWELL IN Aromatic hydrocarbons, eg, benzene; chlorinated hydrocarbons eg, three chloro-ethylene; flame retardant hydrolic fluids, esters, polar solvents and break fluids based on glycol.

TEMPERATURE RANGE FOR USE: -30°C to +100° C; for short periods up to 130 °C; for special blends, cold flexibility extends down to - 55 °C.

CARBOXYLATED – NITRILE RUBBER

X-NBR

CHARACTERISTICS: Their properties are similar to those are of NBR polymers but they are characterized by improved abrasion behaviour in applications subjected to dynamic stress.

TEMPERATURE RANGE FOR USE: -23°C to + 100°C; for short periods ±130°C .

ACRYLATE RUBBER

ACM

APPLICATION: Radial shaft seals, O-Rings and moulding at higher temperatures and oil containing additives (active oils).

CHARACTERISTICS: Excellent ageing, ozone resistance; good elasticity, low gas permeability.

GOOD RESISTANCE TO SWELLING IN Mineral Oils (engine oils, transmission oils) even with additives.

HIGH SWELL IN aromatic and chlorinated hydrocarbons, eg, fire retardant hydrolic fluids. Hot water, steam, acids, alkalies and amines react to destroy the materials.

TEMPERATURE RANGE FOR USE: -25°C to + 150°C



SILICONE RUBBER

Q

APPLICATION: Termic, electric, automotive, food, health, construction defence and security sectors.

CHARACTERISTICS: High thermal resistance, good cold flexibility, good dielectric properties, very good resistance to oxygen and ozone attack and above all the physical properties show only slight dependency on the temperature. The permeability to gases at room temperature is higher than that for other elastomers and this is especially noticeable with thin-walled diaphragms.

MODERATE RESISTANCE TO SWELLING IN Mineral oils (comparable to material based on CR) and brake fluids based on glycol. Use in water up to about +100°C is possible.

HIGH SWELL IN Low molecular weight esters and ethers, aliphatic and aromatic hydrocarbons.

TEMPERATURE RANGE FOR USE: -60°C to +200°C (for short periods to +230°C). Parts can be made from special blends which embrittle only below -100°C.

FLUORO RUBBER

FKM

APPLICATIONS: Use where needs high performance, eg, aerospace industry, automotive industry and cylinder covering.

CHARACTERISTICS: High temperature resistance, chemical stability, low gas permeability, minimal weight loss in high vacuum. Resistance to ozone and to crack resistance in the presence of light are very good, as is the fire retardancy. Have excellent resistance to hot water and to steam.

GOOD RESISTANCE TO SWELLING IN Mineral oils and greases (even with most additives), fuels, aliphatic and aromatic hydrocarbons, some fire retardant hydraulic fluids and synthetic aero-engines oils.

HIGH SWELL IN polar solvents and ketones, fire retardant hydraulic fluids of the Skydrol type and brake fluids.

TEMPERATURE RANGE FOR USE: -20°C to +200°C (for short period to +230°C). Special grades: -35°C to +230°C.

POLYURETHANE

AU

APPLICATIONS: Mining and construction sector, production of parts that retardant to abrasion at automotive and machine industry, eg, lift tyres and cylinder covering.

CHARACTERISTICS: High mechanical strength, good abrasion resistance, modulus of elasticity which can be varied within wide limits, good flexibility, hardness variable over a wide range whilst retaining good elasticity (AU fills the gap between soft rubber types which can be stretched and brittle plastics), very good resistance to ozone and oxygen.

GOOD RESISTANCE TO SWELLING IN mineral oils, greases, water and water-oil mixtures and aliphatic hydrocarbons

TEMPERATURE RANGE FOR USE: -30 °C to +80 °C and types which can be highly stressed up to +100 °C in mineral oils.

CHLOROBUTADIEN RUBBER

CR

APPLICATIONS: Production of high pressure hydraulic and brake hoses, seals, mountings, bumpers, V-belts and covering of cylinder and chemical oil tankers

CHARACTERISTICS: Resistance to chemicals, to ageing, to weathering effects and to ozone attacks and also by their flame resistance. Low gas permeability and high sticking performance to metals and to textiles.

GOOD RESISTANCE TO SWELLING IN Mineral oils with high aniline point, greases, many refrigerants and water.

MODERATE RESISTANCE TO SWELLING IN Mineral oils, petroleum and iso-octane.

HIGH SWELL IN Aromatics, eg, benzene, toluene, chlorinated hydrocarbons, esters ethers and ketones.

TEMPERATURE RANGE FOR USE: -45 °C to +100 °C depending of composition of the blend; (for short periods up to +130 °C).

THERMOPLASTIC RUBBER

TPE

APPLICATIONS: Mechanical parts, hoses, automotive parts and health sector.

CHARACTERISTICS: Good elongation and high tensile strength.

POLYTETRAFLUOROETHYLENE

PTFE

APPLICATIONS: Its use is favoured in all cases where the retention of residues is to be avoided.

CHARACTERISTICS: -The surface is slippery and repels most media. The electrical insulating outstandingly good. They are almost independent of frequency, temperature and weathering effects.

TEMPERATURE RANGE FOR USE: In between -200 °C and +260 °C. Even at below -200 °C, it still has some elasticity.

POLYAMIDE

PA

APPLICATIONS: Suitable for machine parts of all types (gear wheels, plain bearings, guide rails, control cams).

CHARACTERISTICS: Surpasses the previously named materials notably in its strength properties. High abrasion resistance, the tough structure and good damping and dry-running properties.

UPPER TEMPERATURE FOR USE: +120°C to +140°C.

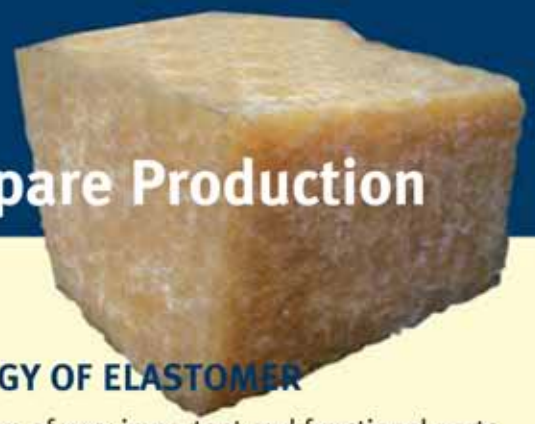
POLYVINYL – CHLORIDE

PVC

APPLICATIONS: Preferable used producing of bellows, packings, collars, coverings, sleeves, caps, sockets and mountings for air conveying.

TEMPERATURE RANGE FOR USE: -35°C to +70°C.

General Information on Rubber Spare Production



ELASTOMERS

Elastomers are crosslinked (vulcanized) polymeric goods that brittle like glasses at too low temperatures, shows no viscous fluidity even too high temperature, shows good elasticity wide range in between room and breaking down temperature .

TECHNOLOGY OF ELASTOMER

Uses production of very important and functional parts for human life, eg, fuel and break hoses, wipers, transmission belts, seals, axle bellows, radiator and air hoses, door and window sealings, shock absorbers and insulation elements etc. Elastomer supports used at free ways and bridges, expanding seals, sealing of drinking water pipes and producing of conveyor belts.

PROPERTIES OF ELASTOMERS

PHYSICAL PROPERTIES	NR	IR	SBR	BR	IIR	CIIR	EPM	EPDM	CR
Sp.Gr (gr/cm ³)	0.93	0.93	0.94	0.94	0.92	0.92	0.86	0.86	1.23
Hardness (Shore A)	30-100	30-100	40-100	45-80	30-100	30-100	40-95	40-95	40-95
Gas Permeability	C	C	C	C	A	A	C	C	B
Electrical Insulation	A	A	B	B	A	A	A	A	C
MECHANICAL PROPERTIES									
Tensile Strength (Mpa)	>30	>28	>24	>21	>21	>21	>21	>21	>28
Abrasion Resistance	B	A	A	A	CB	CB	B	B	BA
Stress “	A	A	B	A	B	B	B	B	B
Tear “	A	A	C	C	B	B	B	B	B
Strike “	A	A	A	B	B	B	B	B	B
Elasticity	A	A	B	A	CB	CB	CB	BA	BA
Compression Set	B	B	B	C	B	B	A	A	B
HEAT PROPERTIES									
Service Temperature °C	70	70	100	70	100	100	140	150	100
Low Temp. Properties	AB	B	BA	A	C	C	BA	BA	C
Heat Resistance	C	CB	B	B	BA	BA	A	A	BA
Flame “	D	D	D	D	CD	CD	D	D	BA
RESISTANT TO									
Atmospheric Ageing	C	C	CB	CB	A	A	A	A	B
Oxidation	B	B	B	B	A	A	A	A	A
Ozone	CD	CD	CD	CD	A	A	A	A	A
Radiation	C	C	C	D	B	B	A	A	B
Water	A	A	A	A	BA	BA	A	A	A
Steam	B	B	C	B	BA	BA	A	A	B
Alkali (Unconcentrated)	A	B	CB	CB	A	A	A	A	A
Alkali (Concentrated)	CB	CB	CB	CB		A	A	A	A
Acids (Unconcentrated)	B	B	CB	CB	A	A	A	A	A
Acids (Concentrated)	C	C	C	C	A	A	A	A	B
Animal Oils	C	C	C	C	BA	BA	C	C	B
Vegetable Oils	C	C	C	C	BA	BA	C	C	B
Lubricant Oils	T	T	T	T	T	T	T	T	C
Oxygenated Liquids	B	B	B	B	A	A	BA	BA	C
Halogenated Liquids	T	T	T	T	T	T	T	T	T
Alcohol	AB	B	B	B	B	BA	BA		D
Hydraulic Fluids	B	B	B	B	A	A	C	BA	C

General Information on Rubber Spare Production



PROPERTIES OF ELASTOMERS

PHYSICAL PROPERTIES	CSM	NBR	ECO	ACM	T	SiL.	FVMQ	FKM	AU.EU
Sp.Gr(gr/cm ³)	1.1-1.27	1.0	Jan-27	1-Jan	Jan-34	1.07-1.7	1.35-1.65	1.4-1.95	1.05-1.3
Hardness (Shore A)	40-95	20-100	40-90	40-90	20-80	20-80	35-80	60-90	35-100
Gas Permeability	B	BA	A	B	C	C	D	A	B
Electrical Insulation	B	DC	A	B	C	A	B	B	B
MECHANICAL PROPERTIES									
Tensile Strength (Mpa)	>28	>24	>17	>17	>3-9	>4-9	>5-9	>17	>35-56
Abrasion Resistance	CB	A	CB	CB	D	D	D	B	A
Stress "	CB	B	B	B	D	B	D	B	A
Tear "	CB	B	CB	C	D	C	C	B	A
Strike "	CB	C	CA	D	D	C	C	B	A
Elasticity	CB	B	CB	CB	C	BA	B	BA	C
Compression Set	C	B	B	B	D	A	C	C	B
HEAT PROPERTIES									
Service Temperature °C	135	100-125	125	150	70	200-240	200	250	100
Low Temp. Properties	B	C	C	D	C	A	B	D	C
Heat Resistance	BA	B	BA	A	CB	A	A	A	BA
Flame "	BA	D	BD	D	D	B	A	A	D
RESISTANT TO									
Atmospheric Ageing	A	CB	AB	A	B	A	A	A	A
Oxidation	A	B	AB	A	B	A	A	A	B
Ozone	A	CD	A	B	A	A	A	A	A
Radiation	B	C	A	B	C	A	A	A	A
Water	B	A	B	D	B	A	A	A	CB
Steam	B	CB	T	BC	D	CB	CB	CB	D
Alkali (Unconcentrated)	A	B	B	C	B	A	A	B	B
Alkali (Concentrated)	A	B	D	C	B	B	B	C	D
Acids (Unconcentrated)	A	B	B	C	C	B	B	A	C
Acids (Concentrated)	A	B	C	C	T	C	C	A	D
Animal Oils	CD	B	BA	CB	CB	DB	A	A	C
Vegetable Oils	CD	B	BA	CB	CB	T	BA	A	A
Lubricant Oils	B	A	BA	A	A	T	BA	A	A
Oxygenated Liquids	D	D	C	D	A	BC	D	T	B
Halogenated Liquids	D	C	A	B	CA	T	BA	A	B
Alcohol	A	CB	CB	D	B	CA	BA	CA	D
Ester	D	BA	B	DC	CB	T	A	A	
Hydraulic Fluids	B	B	B	B	DC	D	B	C	C

A= EXCELLENT B= GOOD C= MIDDLE D= LOW T= NOT RECOMMENDED

General Information on Rubber Spare Production

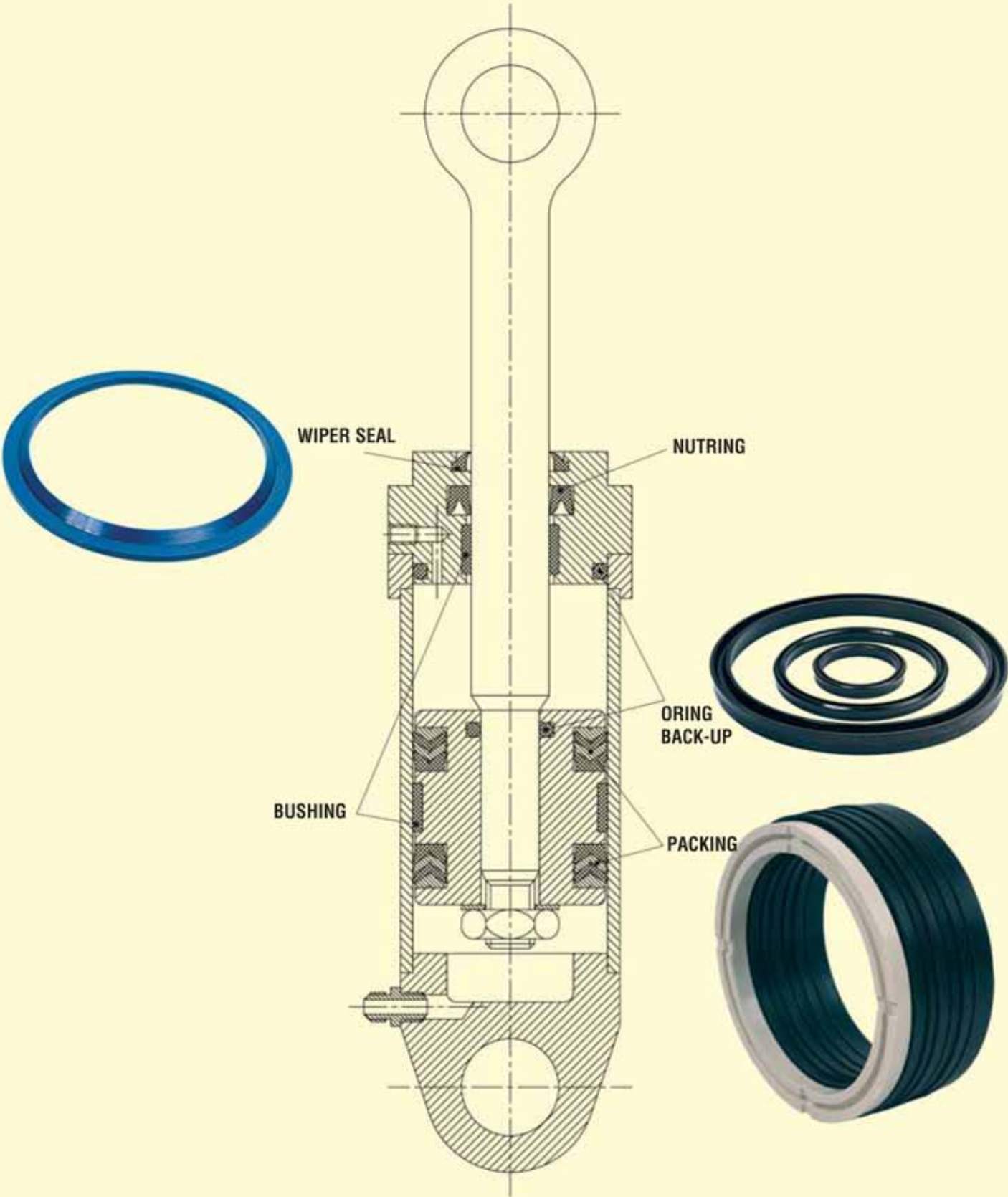


SPECIFICATIONS OF RUBBER BASE MATERIALS

PHYSICAL PROPERTIES	NBR	FKM	MVQ	EPDM	CR	SBR	NR	PU
Tensile Strength	4	4	6	4	3	1	1	1
Elongation at Break	2	3	4	3	2	1	1	1
Compression Set	3	5	3	3	3	2	2	2
Abrasion Resistance	2	4	5	3	2	2	2	1
Tear Strength	3	3	6	3	2	2	2	1
Ageing	3	1	1	1	2	3	3	2
Resistance to Ozone	3	1	1	1	2	4	4	2
Resistance to Fuels	1	1	5	5	2	6	6	6
Resistance to Hydraulics and Greases	1	1	3	4	3	6	6	1
Resistance to Acids	4	1	5	1	2	3	3	6
Resistance to Alkalis	3	1	5	2	2	3	3	6
Resistance to Hot Water	3	2	5	2	3	3	3	3
Max. Working Temperature (°C)	105	225	200	145	100	100	100	100
Min. Working Temperature (°C)	-30	-30	-60	-40	-45	-50	-60	-30

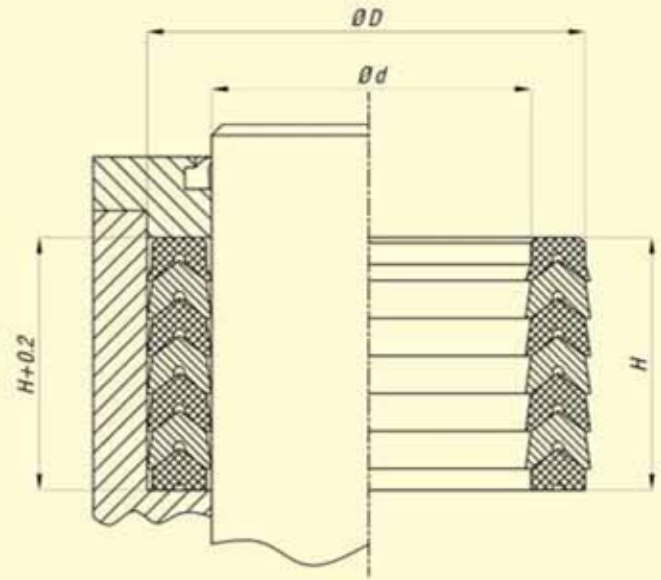
1 = Excellent
 2 = Very Good
 3 = Good
 4 = Medium
 5 = Low
 6 = Not Recommended

Piston Seals



SEALING ELEMENTS

GYP-1



GÜLHAN GYP-1 PACKING LIST

GYP CODE	SIZE	GYP CODE	SIZE
000100	8 x 18 x 18.5	000130	45 x 60 x 22.5
000101	10 x 20 x 18.5	000131	45 x 65 x 22.5
000102	12 x 22 x 18.5	000132	47 x 65 x 33
000103	14 x 24 x 18.5	000133	48 x 63 x 22
000104	15 x 25 x 18.5	000134	50 x 62 x 25
000105	16 x 26 x 18.5	000135	50 x 64 x 25
000106	18 x 28 x 18.5	000136	50 x 65 x 22.5
000107	20 x 30 x 18.5	000137	50 x 70 x 30
000108	20 x 32 x 22.5	000138	55 x 75 x 30
000109	22 x 32 x 18.5	000139	56 x 71 x 22.5
000110	22 x 34 x 22.5	000140	56 x 76 x 37
000111	22 x 35 x 22.5	000141	60 x 75 x 22.5
000112	25 x 37 x 22.5	000142	60 x 80 x 37
000113	25 x 40 x 22.5	000143	63 x 78 x 22.5
000114	25 x 42 x 22.5	000144	63 x 83 x 37
000115	28 x 40 x 22.5	000145	65 x 80 x 22.5
000116	28 x 43 x 22.5	000146	65 x 85 x 40
000117	30 x 42 x 22.5	000147	70 x 85 x 22.5
000118	30 x 45 x 22.5	000148	70 x 88 x 22.5
000119	32 x 44 x 22.5	000149	70 x 90 x 40
000120	32 x 47 x 22.5	000150	75 x 90 x 22.5
000121	35 x 47 x 22.5	000151	75 x 95 x 40
000122	35 x 50 x 22.5	000152	80 x 95 x 22.5
000123	36 x 48 x 22.5	000153	80 x 100 x 40
000124	36 x 51 x 22.5	000154	80 x 105 x 40
000125	40 x 52 x 22.5	000155	85 x 100 x 22.5
000126	40 x 55 x 22.5	000156	85 x 105 x 40
000127	40 x 60 x 25	000157	90 x 105 x 22.5
000128	42 x 54 x 22.5	000158	90 x 110 x 40
000129	42 x 57 x 22.5		

SEALING ELEMENTS

GYP-1

The packing group of seal sets that named GÜLHAN GYP₁ – GYP₂ - GYP₃ use for sealing pistons and piston systems. Produced by applying NBR polymer on cotton base cloth. Prepare different set combinations by using different number of parts. There is an imperative to use partly channel at packing systems. Parts must be cut 45° and installed by making 75° angle; if need to use close channel. However, this way is not preferred if, there is not an imperative.

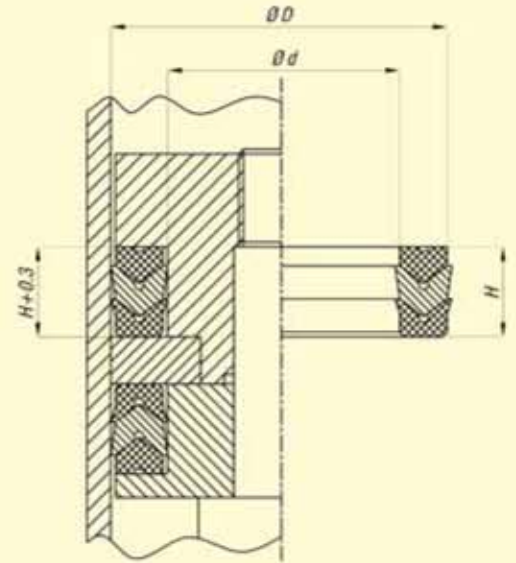
It is a long life sealing element at sudden changes on pressure and temperature and speedy abrasions at critical work loading time on challenging to axel radial loads.

GÜLHAN GYP-1 PACKING LIST

GYP CODE	SIZE	GYP CODE	SIZE
000159	90 x 115 x 40	000192	170 x 200 x 60
000160	95 x 115 x 40	000193	180 x 200 x 40
000161	100 x 115 x 30	000194	180 x 210 x 60
000162	100 x 120 x 40	000195	190 x 220 x 60
000163	100 x 125 x 40	000196	195 x 225 x 60
000164	105 x 120 x 30	000197	200 x 220 x 40
000165	105 x 125 x 30	000198	200 x 230 x 60
000166	105 x 130 x 26	000199	205 x 225 x 60
000167	110 x 125 x 30	000200	210 x 240 x 60
000168	110 x 130 x 40	000201	215 x 245 x 60
000169	110 x 135 x 40	000202	220 x 250 x 60
000170	110 x 140 x 40	000203	225 x 255 x 60
000171	115 x 130 x 30	000204	245 x 275 x 60
000172	115 x 140 x 46	000205	250 x 290 x 60
000173	120 x 135 x 30	000206	270 x 300 x 60
000174	120 x 140 x 40	000207	280 x 310 x 60
000175	120 x 145 x 46	000208	290 x 320 x 60
000176	120 x 150 x 46	000209	300 x 330 x 60
000177	125 x 140 x 35	000210	310 x 345 x 60
000178	125 x 145 x 40	000211	320 x 360 x 60
000179	125 x 150 x 46	000212	340 x 370 x 60
000180	125 x 150 x 50	000213	365 x 400 x 60
000181	125 x 155 x 50	000214	380 x 410 x 60
000182	130 x 160 x 60	000215	380 x 420 x 60
000183	135 x 160 x 46	000216	400 x 440 x 65
000184	140 x 155 x 34	000217	420 x 450 x 60
000185	140 x 160 x 50	000218	445 x 485 x 60
000186	140 x 165 x 60	000219	530 x 570 x 70
000187	145 x 165 x 60	000220	580 x 630 x 70
000188	150 x 170 x 40		
000189	150 x 180 x 60		
000190	160 x 180 x 40		
000191	160 x 190 x 60		

SEALING ELEMENTS

GYP-2



GÜLHAN GYP-2 PACKING LIST

GYP CODE	SIZE	GYP CODE	SIZE
001001	20 x 10 x 9	001019	95 x 75 x 21
001002	22 x 12 x 9	001020	100 x 80 x 21
001003	23 x 15 x 9	001021	105 x 85 x 21
001004	28 x 18 x 9	001022	110 x 90 x 21
001005	30 x 20 x 9	001023	115 x 95 x 21
001006	35 x 23 x 10	001024	120 x 100 x 21
001007	36 x 24 x 10	001025	125 x 100 x 26
001008	40 x 25 x 11	001026	130 x 110 x 26
001009	45 x 30 x 11	001027	140 x 115 x 28
001010	50 x 35 x 11	001028	150 x 120 x 28
001011	55 x 40 x 12	001029	160 x 130 x 30
001012	60 x 45 x 12	001030	180 x 150 x 31
001013	63 x 48 x 12	001031	200 x 170 x 33
001014	70 x 50 x 15	001032	225 x 195 x 33
001015	75 x 55 x 15	001033	250 x 220 x 33
001016	80 x 60 x 15	001034	275 x 245 x 33
001017	85 x 65 x 21	001035	300 x 270 x 33
001018	90 x 70 x 21		

SEALING ELEMENTS



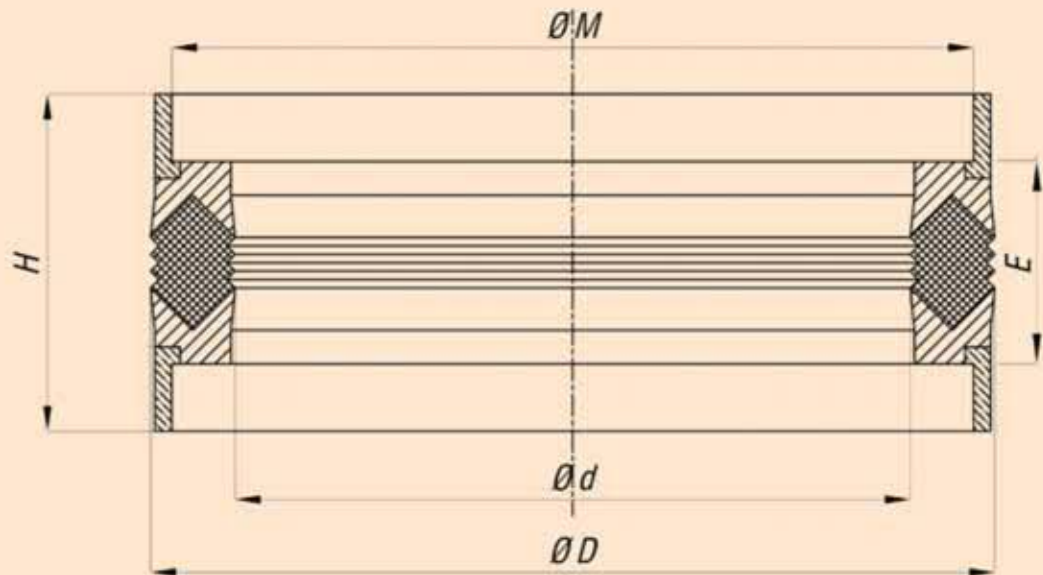
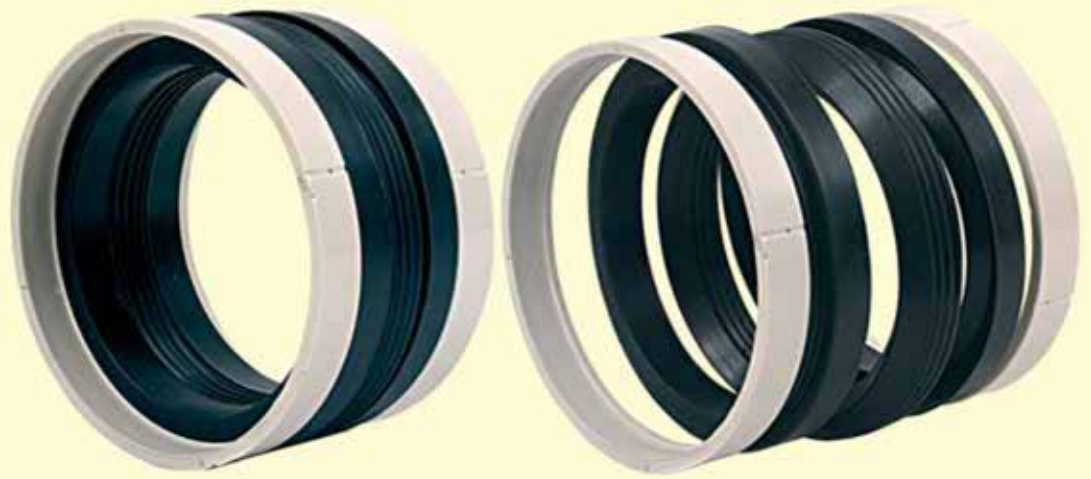
GYP-3 COMPACT

GÜLHAN GYP-3 COMPACT

GYP CODE	D	d	E
002001	50	34	18.4
002002	50	38	18.4
002003	63	47	18.4
002004	63	51	18.4
002005	65	50	18.4
002006	70	58	18.4
002007	80	66	22.4
002008	90	70	22.4
002009	100	86	22.4
002010	105	80	22.4

SEALING ELEMENTS

GYP-4



GÜLHAN COMPACT-4

GYP CODE	SIZE				GYP CODE	SIZE			
	D	d	E	H		D	d	E	H
002501	63	48	34	45	002513	110	90	35	54
002502	65	45	34	45	002514	115	90	45	70
002503	70	50	35	54	002515	120	95	45	70
002504	75	55	36	54	002516	120	100	35	54
002505	76	57	36	54	002517	125	100	45	70
002506	80	60	36	54	002518	135	110	45	70
002507	85	65	36	54	002519	140	115	45	70
002508	90	70	30	50	002520	140	120	36	54
002509	92	73	35	54	002521	150	125	48	70
002510	100	80	35	54	002522	160	135	48	70
002511	102	82	35	54	002523	180	155	48	70
002512	110	85	42	64					

COMPACT SETS

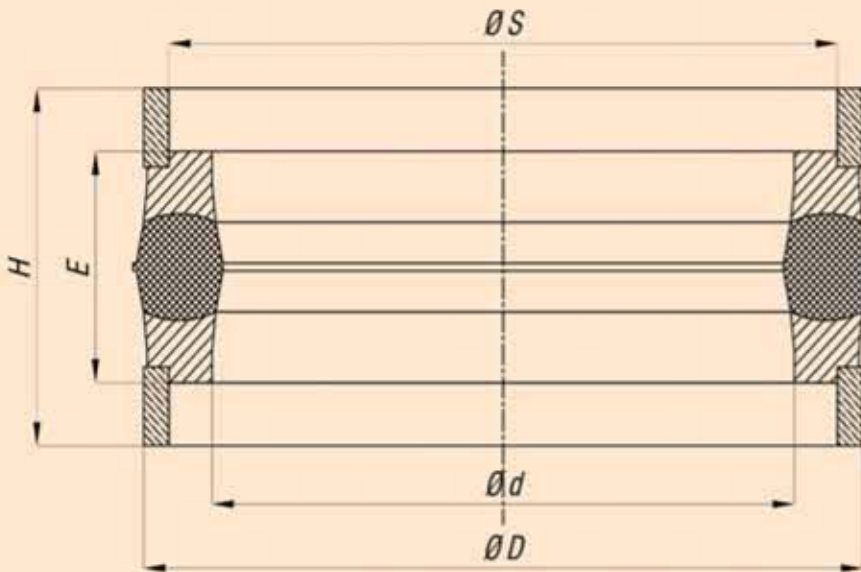
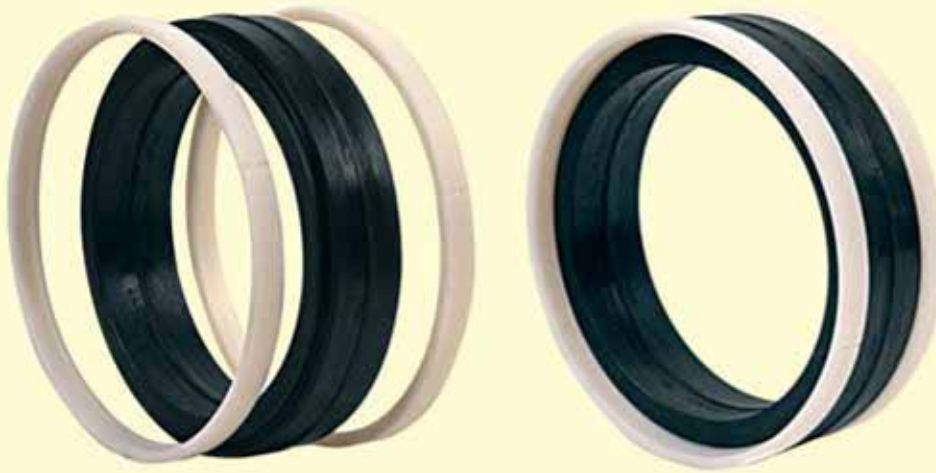
Constituting GYP4 – GYP5 serials these double action with polyamide bearing felt elements are contents 5 parts.

One of the best solutions for piston sealing at double acting hydraulic cylinders. They are sealing systems which combination of different elements that comprehensible with their names.

The biggest advantage of these types sealing elements is eliminating to bearing felt need that already in their contents. Making installation easier is other advantages of them. Because of spring shape of

SEALING ELEMENTS

GYP-5



medium part, it has capability of sudden remedy.

In addition, this medium part is propped by "U" type cloth bounded plastic. The polyamide rings installed near by these cloth-bounded parts eliminate the need of bearing felt by guarding to abrasion.

This type-sealing element preferred at design of cylinders with vibration, tottery or slide axis moveable parts of hydraulic unites

GÜLHAN COMPACT-5 FADROMA

GYP CODE	SIZE				GYP CODE	SIZE			
	D	d	E	H		D	d	E	H
002751	50	35	19	34	002766	125	100	24	38
002752	63	48	19	34	002767	127	102	32	37
002753	70	50	22	36	002768	133	108	32	37
002754	76	57	22	40	002769	135	110	24	37
002755	80	60	22	35	002770	140	115	24	37
002756	85	65	22	35	002771	140	120	24	45
002757	90	70	21	35	002772	145	120	24	36
002758	95	75	21	35	002773	150	125	25	37
002759	100	75	21	35	002774	152	127	32	44
002760	100	80	24	38	002775	160	140	24	45
002761	105	85	32	36	002776	165	140	32	45
002762	110	85	24	38	002777	180	150	36	45
002763	115	90	22	46	002778	203	171	40	
002764	115	90	24	32	002779	230	200	37	
002765	120	100	24	38					

SEALING ELEMENTS

GYP-SPECIAL

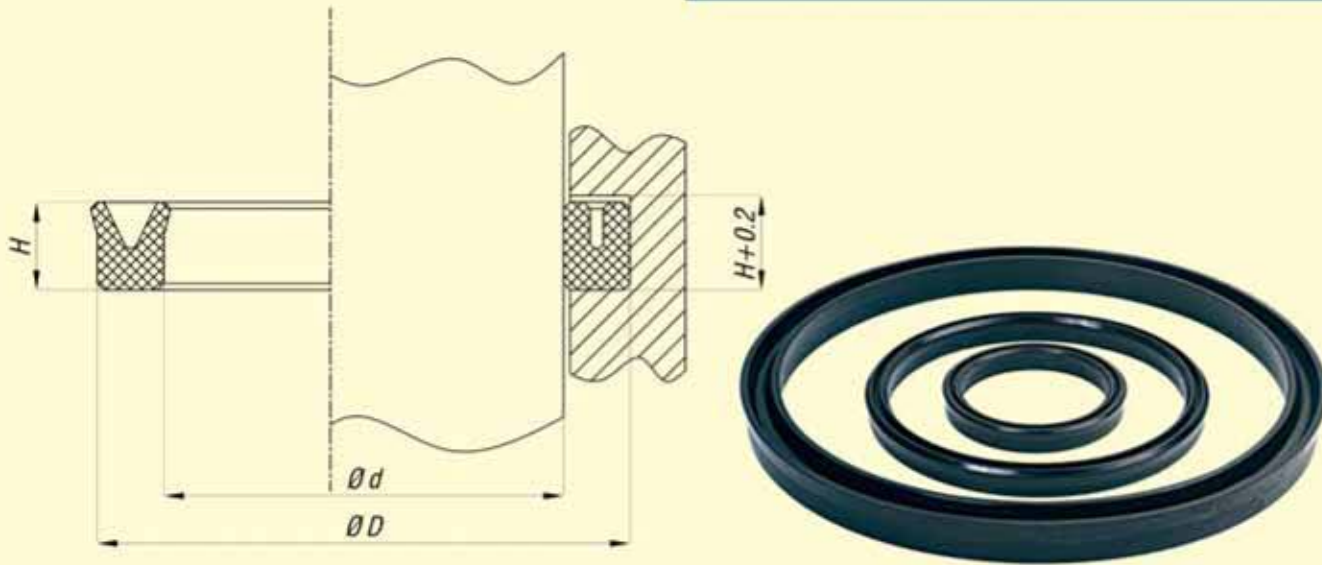


GÜLHAN GYP SPECIAL PACKING LIST

GYP CODE	SIZE	GYP CODE	SIZE
001501	12.7 x 25.4 x 19	001524	82.5 x 101.6 x 31
001502	20.62x33.32x33.32	001525	88.9 x 101.6 x 31
001503	28.5 x 47.5 x 22.5	001526	88.9 x 107 x 25
001504	31.7 x 44.4 x 25	001527	88.9 x 114.3 x 38
001505	38.1 x 50.8 x 25	001528	95.2 x 107.9 x 25
001506	38.1 x 53.9 x 25	001529	98.4 x 114.3 x 32
001507	44.4 x 57.1 x 22	001530	101.6 x 114.3 x 25
001508	50.8 x 63.5 x 25	001531	101.6 x 127 x 38
001509	50.8 x 66.6 x 25	001532	107.9 x 127 x 38
001510	50.8 x 76.6 x 31	001533	107.9 x 133.3 x 38
001511	53.9 x 73.2 x 32	001534	114.3 x 133.6 x 31
001512	57.1 x 69.8 x 25	001535	114.3 x 139.7 x 38
001513	57.1 x 73.2 x 32	001536	120.6 x 133.3 x 25
001514	57.1 x 76.2 x 32	001537	127 x 139.7 x 25
001515	63.5 x 76.2 x 28.5	001538	127 x 152.4 x 38
001516	63.5 x 79.3 x 28.5	001539	133.3 x 152.4 x 38
001517	63.5 x 82.5 x 28.5	001540	139.7 x 152.4 x 25
001518	69.8 x 82.5 x 28.5	001541	139.7 x 171.5 x 25
001519	69.8 x 88.9 x 32	001542	152.4 x 165.1 x 31
001520	76.2 x 88.9 x 25	001543	152.4 x 177.8 x 38
001521	76.2 x 92.7 x 25	001544	165.1 x 177.8 x 31
001522	76.2 x 95.2 x 38	001545	174 x 201 x 60
001523	76.2 x 101.6 x 38	001546	177.8 x 203.2 x 50

SEALING ELEMENTS

GYP-6



Series of GYP6 (Nutrings) produced from Nitrile Rubber based polymers.

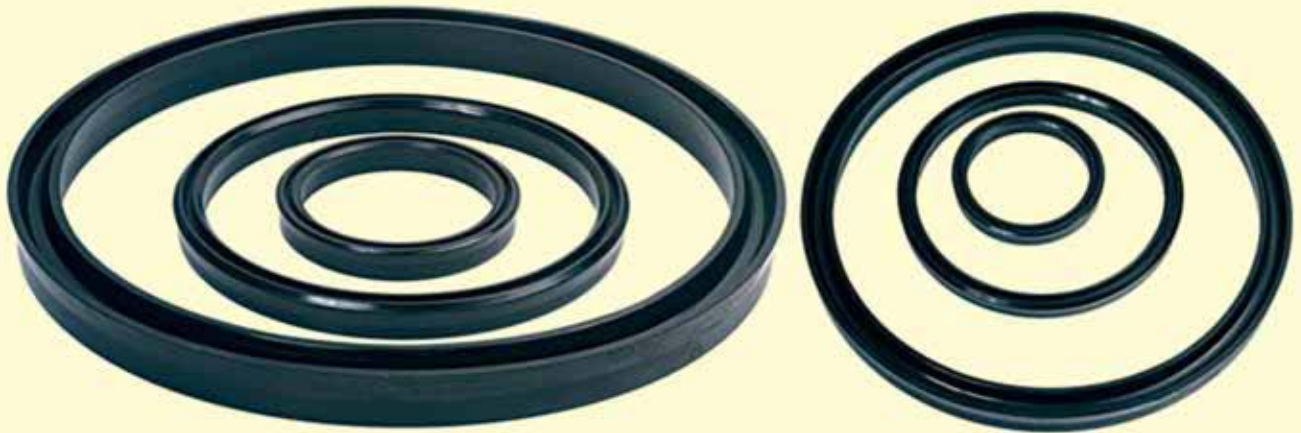
It uses for providing seal at piston and piston systems in hydraulic or pneumatic cylinders. Nutrings works in media like hydraulic oils, water, air etc. They are produced 85-90 SHA for hydraulic systems and 75-80 SHA for pneumatic systems.

GYP-6 HYDRAULIC SEAL LIST

GYP CODE	SIZE	GYP CODE	SIZE
003001	6 x 12 x 5	003030	28 x 40 x 10
003002	7 x 16 x 4	003031	28 x 43 x 10
003003	10 x 16 x 5	003032	28 x 44 x 10
003004	10 x 28 x 16	003033	30 x 40 x 8
003005	12 x 18 x 5	003034	30 x 40 x 10
003006	12 x 20 x 6	003035	30 x 42 x 8
003007	12 x 22 x 8	003036	30 x 50 x 10
003008	14 x 24 x 8	003037	32 x 42 x 8
003009	15 x 22 x 6	003038	34 x 45 x 8
003010	16 x 28 x 8	003039	35 x 45 x 8
003011	18 x 25 x 6	003040	35 x 45 x 10
003012	18 x 35 x 12	003041	35 x 48 x 10
003013	20 x 28 x 6	003042	35 x 50 x 10
003014	20 x 30 x 8	003043	35 x 60 x 13
003015	20 x 30 x 10	003044	36 x 50 x 10
003016	20 x 40 x 10	003045	38 x 48 x 8
003017	22 x 28 x 6	003046	38 x 48 x 10
003018	22 x 30 x 6	003047	38 x 50 x 8
003019	22 x 34 x 8	003048	38 x 55 x 10
003020	22 x 34 x 10	003049	40 x 50 x 5
003021	22 x 35 x 10	003050	40 x 50 x 7
003022	22 x 40 x 12	003051	40 x 50 x 8
003023	25 x 35 x 6	003052	40 x 50 x 10
003024	25 x 38 x 10	003053	40 x 55 x 10
003025	25 x 40 x 10	003054	40 x 56 x 12
003026	25 x 45 x 10	003055	40 x 60 x 10
003027	26 x 38 x 8	003056	40 x 60 x 12
003028	28 x 38 x 9	003057	40 x 60 x 18
003029	28 x 40 x 8	003058	40 x 65 x 10

SEALING ELEMENTS

GYP-6

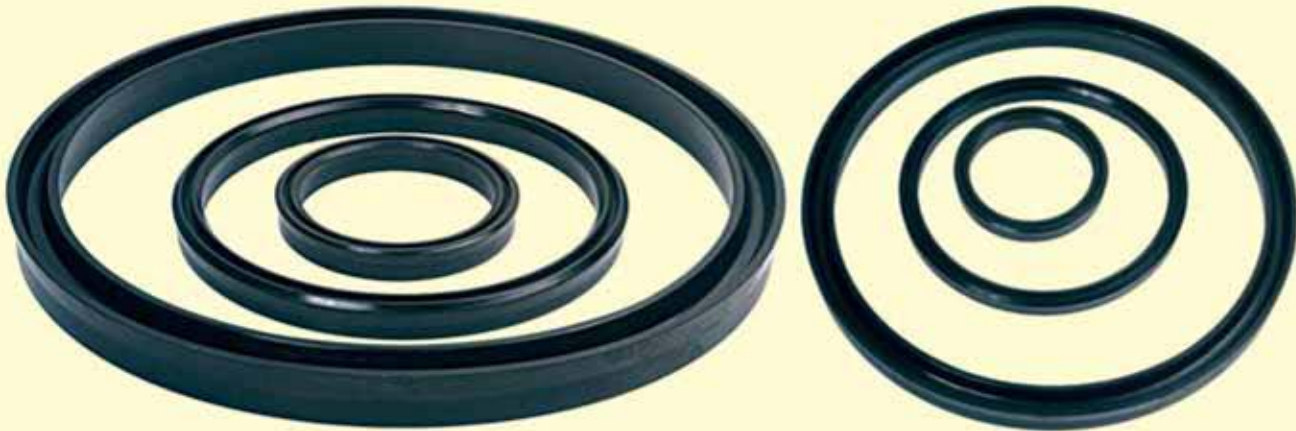


GYP-6 HYDRAULIC SEAL LIST

GYP CODE	SIZE	GYP CODE	SIZE	GYP CODE	SIZE
003059	42 x 50 x 7	003091	60 x 80 x 12	003123	80 x 105 x 18
003060	42 x 55 x 8	003092	60 x 80 x 14	003124	80 x 110 x 18
003061	43 x 63 x 12	003093	60 x 80 x 18	003125	85 x 100 x 12
003062	45 x 55 x 8	003094	63 x 75 x 8	003126	85 x 105 x 16
003063	45 x 55 x 10	003095	63 x 75 x 10	003127	85 x 110 x 15
003064	45 x 57 x 10	003096	63 x 78 x 10	003128	88 x 100 x 10
003065	45 x 60 x 10	003097	63 x 83 x 15	003129	89 x 101 x 10
003066	45 x 63 x 12	003098	65 x 75 x 10	003130	90 x 114 x 16
003067	45 x 65 x 12	003099	65 x 80 x 10	003131	90 x 105 x 12
003068	45 x 70 x 15	003100	65 x 80 x 12	003132	90 x 110 x 12
003069	48 x 63 x 8	003101	65 x 90 x 15	003133	90 x 115 x 15
003070	48 x 63 x 10	003102	65 x 95 x 12	003134	90 x 120 x 15
003071	50 x 60 x 8	003103	65 x 95 x 17	003135	95 x 110 x 12
003072	50 x 60 x 10	003104	66 x 76 x 8	003136	95 x 115 x 15
003073	50 x 62 x 10	003105	68 x 78 x 8	003137	95 x 120 x 15
003074	50 x 63 x 10	003106	70 x 82 x 10	003138	95 x 125 x 15
003075	50 x 65 x 10	003107	70 x 85 x 10	003139	95 x 130 x 20
003076	50 x 70 x 10	003108	70 x 90 x 12	003140	100 x 115 x 12
003077	50 x 70 x 12	003109	70 x 90 x 14	003141	100 x 120 x 12
003078	50 x 70 x 14	003110	70 x 90 x 18	003142	100 x 125 x 12
003079	50 x 70 x 18	003111	70 x 95 x 10	003143	100 x 125 x 15
003080	50 x 75 x 13	003112	70 x 100 x 15	003144	105 x 120 x 10
003081	52 x 70 x 10	003113	75 x 90 x 10	003145	105 x 120 x 15
003082	55 x 70 x 10	003114	75 x 90 x 14	003146	105 x 125 x 15
003083	55 x 75 x 10	003115	75 x 95 x 10	003147	108 x 127 x 16
003084	55 x 75 x 12	003116	75 x 95 x 12	003148	110 x 120 x 12
003085	55 x 80 x 13	003117	75 x 100 x 15	003149	110 x 125 x 10
003086	55 x 80 x 16	003118	76 x 92 x 13	003150	110 x 130 x 16
003087	58 x 72 x 8	003119	80 x 90 x 10	003151	110 x 140 x 18
003088	60 x 70 x 8	003120	80 x 95 x 12	003152	115 x 130 x 15
003089	60 x 72 x 8	003121	80 x 100 x 10	003153	115 x 140 x 18
003090	60 x 80 x 10	003122	80 x 100 x 12	003154	120 x 135 x 10

SEALING ELEMENTS

GYP-6

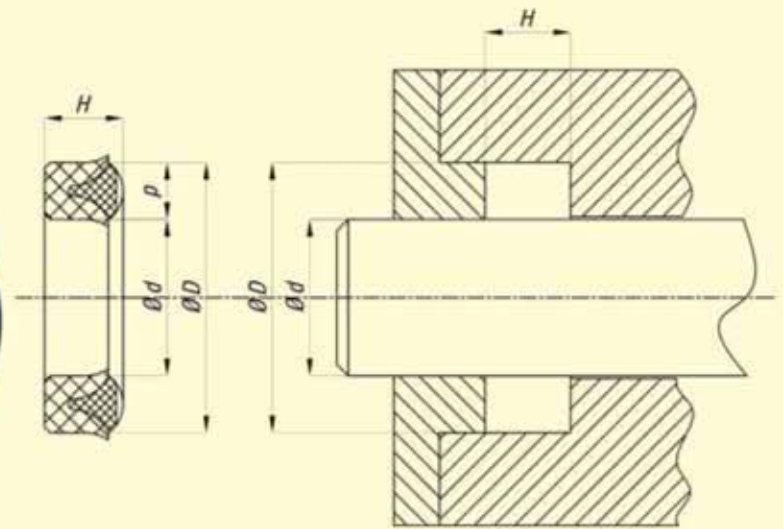


GYP-6 HYDRAULIC SEAL LIST

GYP CODE	SIZE	GYP CODE	SIZE
003155	120 x 140 x 10	003187	170 x 190 x 15
003156	120 x 140 x 15	003188	170 x 200 x 22
003157	125 x 140 x 10	003189	180 x 200 x 15
003158	125 x 140 x 16	003190	180 x 205 x 20
003159	125 x 150 x 18	003191	190 x 210 x 12
003160	127 x 143 x 10	003192	190 x 220 x 22
003161	127 x 146 x 16	003193	195 x 215 x 15
003162	130 x 145 x 10	003194	200 x 220 x 15
003163	130 x 150 x 12	003195	200 x 230 x 22
003164	130 x 150 x 15	003196	205 x 235 x 15
003165	130 x 160 x 14	003197	210 x 230 x 15
003166	130 x 160 x 18	003198	210 x 240 x 22
003167	135 x 150 x 17	003199	210 x 250 x 20
003168	135 x 155 x 15	003200	220 x 250 x 24
003169	135 x 160 x 18	003201	230 x 260 x 15
003170	140 x 155 x 10	003202	260 x 290 x 22
003171	140 x 155 x 16	003203	260 x 300 x 22
003172	140 x 160 x 15	003204	280 x 315 x 20
003173	140 x 163 x 18	003205	285 x 325 x 26
003174	140 x 166 x 15	003206	315 x 345 x 25
003175	140 x 170 x 15	003207	315 x 357 x 29
003176	140 x 170 x 18	003208	320 x 360 x 22
003177	145 x 160 x 10	003209	325 x 355 x 25
003178	150 x 170 x 15	003210	330 x 370 x 25
003179	150 x 175 x 16	003211	335 x 355 x 10
003180	155 x 170 x 10	003212	340 x 370 x 22
003181	155 x 175 x 12	003213	360 x 400 x 25
003182	155 x 175 x 15	003214	375 x 405 x 16
003183	155 x 180 x 18	003215	
003184	160 x 180 x 10	003216	
003185	160 x 180 x 12	003217	
003186	160 x 185 x 18	003218	
		003219	

SEALING ELEMENTS

GYP-7

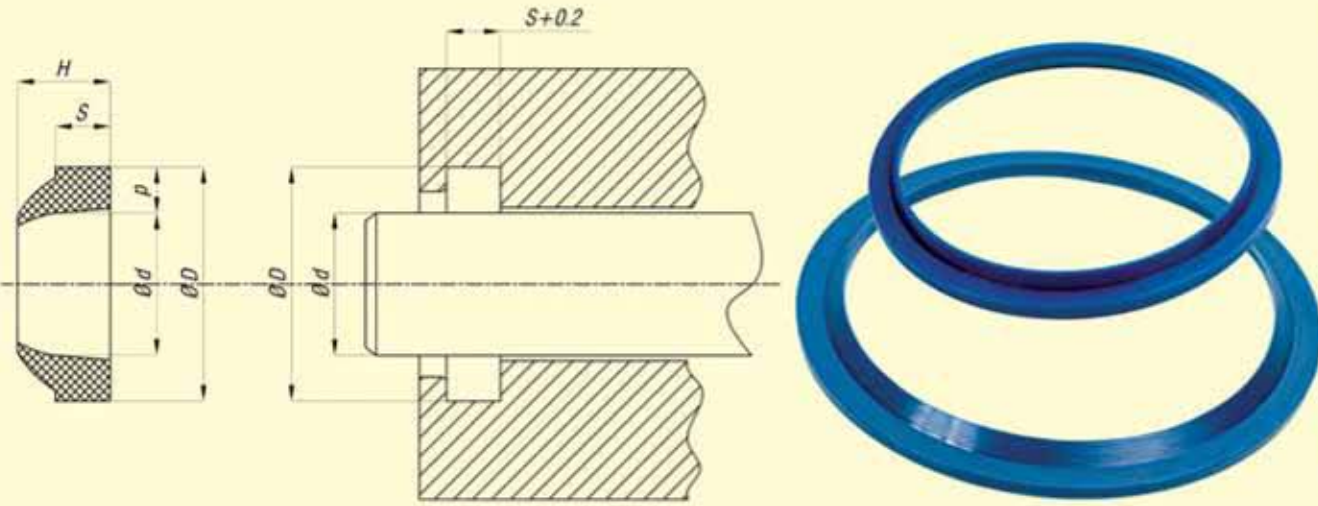


GYP-7 CLOTH BOUNDED NUTRING LIST

GYP CODE	SIZE	GYP CODE	SIZE
004001	12 x 24 x 7.5	004025	115 x 140 x 16
004002	22 x 32 x 7.5	004026	120 x 140 x 16
004003	22 x 34 x 7.5	004027	140 x 165 x 16
004004	25 x 40 x 10	004028	
004005	30 x 45 x 10	004029	
004006	35 x 50 x 10	004030	
004007	38 x 54 x 10	004031	
004008	40 x 55 x 10	004032	
004009	42 x 57 x 10	004033	
004010	45 x 65 x 10	004034	
004011	48 x 63 x 10	004035	
004012	50 x 70 x 12.5	004036	
004013	55 x 75 x 12.5	004037	
004014	60 x 80 x 12.5	004038	
004015	63 x 83 x 12.5		
004016	65 x 85 x 12.5		
004017	70 x 90 x 12.5		
004018	75 x 95 x 12.5		
004019	80 x 100 x 12.5		
004020	85 x 105 x 12.5		
004021	90 x 110 x 12.5		
004022	95 x 115 x 12.5		
004023	100 x 125 x 16		
004024	110 x 135 x 16		

SEALING ELEMENTS

GYP-8



The seals mentioned as Wiper Seal avoid entrance of any kind of dirt and unwashed particles in hydraulic system as well as the cylinder. It must consider working condition when choice wiper seal at hydraulic cylinder. Wiper seals that choose must have scraper characterize if hydraulic cylinder is going to work in dirty and muddy conditions and must have wiper characterized if hydraulic cylinder is not a heavy duty cylinder, if it

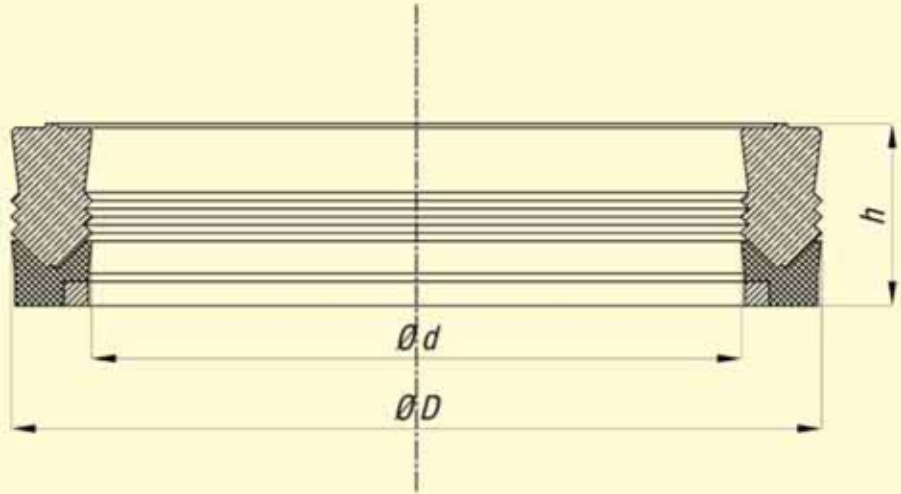
works as injection cylinder continuously at inside factory condition. The difference between this two provided either design of wiper seals lips or using proper material. With this reason it is a good choice PU based for heavy-duty cylinders and NBR based for the others.

GYP-8 WIPER SEAL LIST (NBR)

GYP CODE	SIZE	GYP CODE	SIZE
004501	20 x 28 x 5 / 7	004525	110 x 122 x 6 / 12
004502	22 x 30 x 5 / 7	004526	115 x 127 x 6 / 12
004503	25 x 33 x 5 / 7	004527	125 x 140 x 7 / 12
004504	28 x 36 x 5 / 7	004528	130 x 142 x 7 / 12
004505	30 x 38 x 5 / 7	004529	135 x 147 x 7 / 12
004506	32 x 40 x 5 / 7	004530	140 x 155 x 7 / 12
004507	35 x 43 x 5 / 7	004531	150 x 165 x 7 / 12
004508	36 x 44 x 5 / 7	004532	160 x 175 x 7 / 12
004509	40 x 48 x 5 / 7	004533	170 x 185 x 7 / 12
004510	42 x 50 x 5 / 7	004534	180 x 200 x 7 / 12
004511	45 x 55 x 5 / 7	004535	200 x 220 x 7 / 12
004512	50 x 60 x 5 / 7		
004513	55 x 65 x 5 / 7		
004514	60 x 70 x 5 / 7		
004515	63 x 73 x 5 / 7		
004516	65 x 75 x 5 / 7		
004517	70 x 80 x 5 / 7		
004518	75 x 87 x 6 / 12		
004519	80 x 92 x 6 / 12		
004520	85 x 97 x 6 / 12		
004521	90 x 102 x 6 / 12		
004522	95 x 107 x 6 / 12		
004523	100 x 112 x 6 / 12		
004524	105 x 117 x 6 / 12		

SEALING ELEMENTS

GYP-9



GYP-9 CLOTH BOUNDED NUTRING LIST

GYP CODE	SIZE	GYP CODE	SIZE
005001	38 x 54 x 22,5	005008	70 x 90 x 30
005002	40 x 60 x 22,5	005009	80 x 100 x 30
005003	50 x 66 x 22,5	005010	90 x 110 x 30
005004	55 x 70 x 22,5	005011	140 x 155 x 21
005005	60 x 75 x 22,5	005012	180 x 210 x 55
005006	60 x 80 x 30	005013	220 x 240 x 21
005007	65 x 85 x 28		

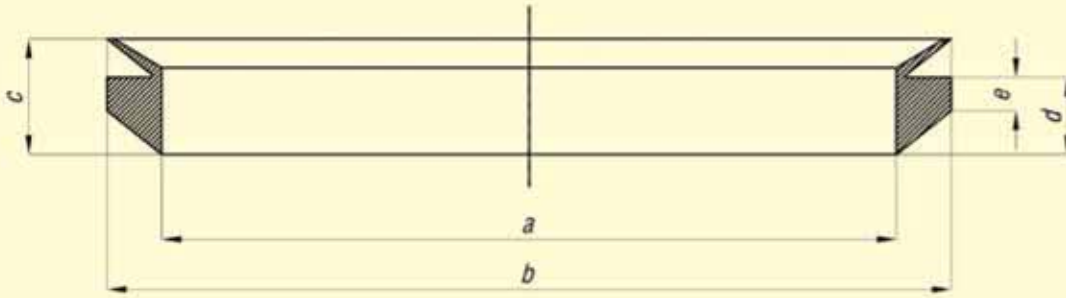


GYP-10

GYP-10 V-RING LIST

GYP KODU	A	B	C	D
018301	54	64	8.5	3
018302	80	100	9	3
018303	85	97	11	3
018304	97	108	9	3
018305	99	113	13	4
018306	144	157	10	3
018307	152	167	9.5	3.5

SEALING ELEMENTS



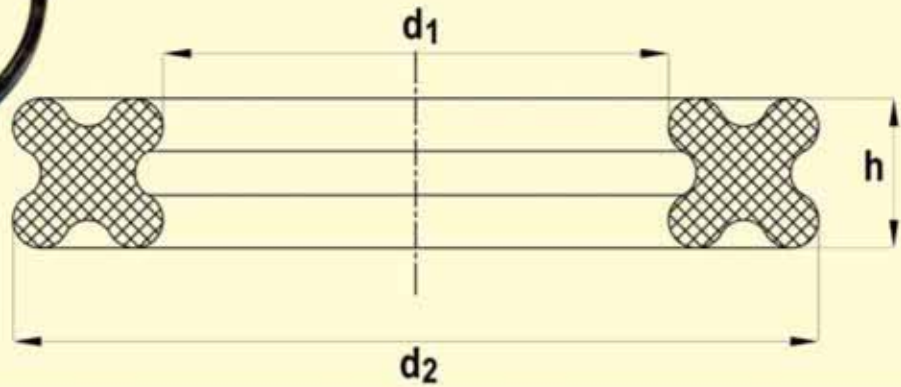
GYP-11

GYP-11 V-RING LIST

GYP CODE	a	b	c	d	e
018416	32	38	8	3	2
018400	37	42	8	3	2
018401	40	48	9	4	3
018402	44	54	9	4.5	3
018403	49	60	11	6	3
018404	54	64	11	6	3
018405	58	70	14	6	4
018406	62	75	14	8	4
018407	66	80	16	9	4
018408	80	93	15	8.5	4.5
018409	82	95	15	9	4
018410	88	101	14	8	4
018411	90	104	15	9	4.5
018412	100	114	18	11	5
018413	105	120	18	11	5
018414	115	130	18	11	5.5
018415	118	132	18	10	5

SEALING ELEMENTS

GYP-12



GYP-12 X-RING LIST

GYP CODE	d1	d2	h	GYP CODE	d1	d2	h
018501	8	x 14	x 3	018539	70	x 81	x 5.5
018502	12.5	x 17.5	x 2.5	018540	76	x 86	x 5
18503-a	13.5	x 18	x 2.5	018541	77	x 87	x 5
018504	14	x 19	x 2.5	018542	78	x 88	x 5
018505	18.5	x 22.5	x 2.5	018543	81	x 91	x 5
018506	19	x 24	x 2.5	018544	86	x 97	x 6
018507	22	x 27	x 2.5	018545	88	x 98	x 5
018508	21	x 27.5	x 4	018546	92	x 99	x 3.5
018509	20	x 28	x 4	018547	92	x 99	x 6.5
018510	22.5	x 29.5	x 3.5	018548	90	x 100	x 5
018511	23.5	x 30	x 2.5	018549	89	x 101	x 7
018512	24	x 31	x 3.5	018550	92	x 102	x 5.5
018513	24.5	x 31	x 3.5	018551	100	x 107	x 3
018514	27	x 32	x 2.5	018552	95	x 108	x 6.5
018515	25.5	x 32.5	x 3.5	018553	101	x 112	x 5.5
018516	27	x 34	x 3.5	018554	104	x 114	x 6
018517	27	x 34	x 4	018555	106	x 117	x 5.5
018518	28	x 36	x 3	018556	110	x 117	x 3.5
018519	29	x 36	x 3.5	18557-a	117	x 124	x 3.5
018520	30	x 37	x 4	018558	113	x 126	x 6.5
018521	31	x 38	x 3.5	018559	115	x 127	x 5.5
018522	35	x 41	x 3.5	018560	120	x 130	x 5.5
18503-b	35	x 41	x 3.8	018561	124	x 138	x 7
018523	34.5	x 43	x 4	018562	127	x 138	x 4.5
018524	37	x 43.5	x 3.3	18557-b	133	x 140	x 3.5
018525	41	x 48	x 3.5	018563	137	x 144	x 3.5
018526	40	x 51	x 6	018564	135	x 148	x 7
018527	41	x 51	x 5	018565	140	x 150	x 4
018528	44	x 54	x 5	018566	158	x 165	x 3.5
018529	43	x 54.5	x 5.5	018567	173	x 158	x 7
018530	50	x 60	x 5	018568	160	x 173	x 5.5
018531	50	x 61.5	x 5.5	018569	164	x 175	x 5.5
018532	54	x 63	x 5.5	018570	175	x 188	x 7
018533	56	x 63	x 4	018571	195	x 199	x 7
018534	57	x 67	x 5	018572	197	x 211	x 7
018535	62	x 72	x 5.5	018573	215	x 222	x 3.5
018536	66	x 77	x 6	018574	212	x 226	x 7
018537	69	x 79	x 5.5	018575	225	x 239	x 7
018538	70	x 80	x 5	018576	265	x 281	x 7.5

SEALING ELEMENTS



ATLAS HYDRAULIC

GÜLHAN ATLAS HYDRAULIC REPAIR KIT

GYP CODE	ORIGINAL CODE	TYPE
005501	606411	1602 CYLINDER KIT
005502	606911	1302 CYLINDER KIT
005503	606911	1602 CYLINDER KIT
005504	0.614364	1302 CYLINDER KIT
005505	0.614364	1602 CYLINDER KIT
005506	618368 TS	1302 CYLINDER KIT
005507	618368 TS	1602 CYLINDER KIT
005508	1585622	1702 CYLINDER KIT
005509	1534201 TS	1702 CYLINDER KIT
005510	1534201	1702 CYLINDER KIT
005511	0.608082	1602 CYLINDER KIT
005512	610611	1302 CYLINDER KIT
005513	610611	1602 CYLINDER KIT
005514	611087	1702 CYLINDER KIT
005515	615161	1702 CYLINDER KIT
005516	639001	1902 CYLINDER KIT
005517	1509959	1902 CYLINDER KIT
005518	1509868	2202 CYLINDER KIT
005519	1509959	2202 CYLINDER KIT
005520	1584676	1704 CYLINDER KIT
005521	1562976	1704 CYLINDER KIT
005522	1576461	1704 CYLINDER KIT





	PRODUCT NAME	GYP CODE	ORJINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008201		180	170 \$ REICH 90 \$
	CONCRETE PUMP PISTON	008202	419040	200	180 \$ REICH 100 \$
	CONCRETE PUMP PISTON	008203	419680	230	200 \$ REICH 110 \$
	SEAL	008204	411156		22 \$ REICH
	SEAL	008205	415594	50 SHORE	10 \$ REICH
	SEAL	008206	415592	70 SHORE	10 \$ REICH
	SEAL	008207	410022		6 \$ REICH

REICH CONCRETE PUMP PISTONS and SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	MIDDLE GEAR MOUNTING	008208	912745		40 \$ REICH
	SCHIEBER SEAL KIT	008209	917894 917896 919381 919897	260	REICH 45 \$
	SCHIEBER SEAL KIT	008210		255	REICH 40 \$
	MAIN CYLINDER REPAIR KIT (SINGLE ACTION)	008211	918123		REICH 30 \$
	MAIN CYLINDER REPAIR KIT (DOUBLE ACTION)	008212	921300 921299		REICH 30 \$
	RESERVOIR STOPPER	008213			5 \$





CONCRETE PUMP PISTONS and SPARE PARTS

WIBAU

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008401		160	180 \$ WIBAU 80 \$
	CONCRETE PUMP PISTON	008402	125067	180	190 \$ WIBAU 90 \$
	CONCRETE PUMP PISTON	008403		200	200 \$ WIBAU 100 \$
	SCHIEBER SEAL KIT	008404			20 \$ WIBAU

CONCRETE PUMP PISTONS and SPARE PARTS





SERMAC

	CONCRETE PUMP PISTON	008501	1421033	230	200 \$ SERMAC 110 \$
	SEAL	008502	1261029		8 \$ SERMAC
	SEAL	008503	1261028		10 \$ SERMAC
	SEAL	008504	1261031		6 \$ SERMAC

PUTZMEISTER CONCRETE PUMP PISTONS and SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008601	019033-000	180	170 \$ PUTZMEISTER 90 \$
	CONCRETE PUMP PISTON	008602	19004-000	200	180 \$ PUTZMEISTER 100 \$
	CONCRETE PUMP PISTON	008603	19003-001	230	210 \$ PUTZMEISTER 110 \$
	CONCRETE PUMP PISTON	008604	26289300	230	190 \$ PUTZMEISTER 110 \$
	MIXER	008605			5 \$ PUTZMEISTER
	SHOCK ABSORBER	008606	65117006		30 \$ PUTZMEISTER
	HANGER MOUNTING	008607	019137003		20 \$ PUTZMEISTER

CONCRETE PUMP PISTONS and SPARE PARTS **PUTZMEISTER**

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	DIRECTION MOUNTING	008608			PUTZMEISTER 6 \$
	CHECK VALVE REPAIR KIT	008609			30 \$
	TRANSFER CYLINDER REPAIR KIT	008610			100 \$
	PRESSURE RING	008611	269519		7 \$

CIFA CONCRETE PUMP PISTONS and SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008700	2300150 005305	180	175 \$ CIFA 90 \$
	CONCRETE PUMP PISTON	008701	215763 230014	200	185 \$ CIFA 100 \$
	CONCRETE PUMP PISTON	008702	237693	230	200 \$ CIFA 110 \$
	SEAL	008703			15 \$ CIFA
	SEAL	008704			8 \$ CIFA
	SEAL	008705			7 \$ CIFA
	PIPE LEAN	008706	218303		10 \$ CIFA
	MIXER	008707	2363091		6 \$ CIFA

CONCRETE PUMP PISTONS and SPARE PARTS

SCHWING

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008801	812102001000-3	150	160 \$ SCHWING 70 \$
	CONCRETE PUMP PISTON	008802		180	170 \$ SCHWING 80 \$
	CONCRETE PUMP PISTON	008803	825103020000-6 715420300016	180	180 \$ SCHWING 80 \$
	CONCRETE PUMP PISTON	008804	43825	180	250 \$ SCHWING 100 \$
	CONCRETE PUMP PISTON	008805	7154203013100	200	180 \$ SCHWING 100 \$
	CONCRETE PUMP PISTON	008806		230	200 \$ SCHWING 110 \$

SCHWING CONCRETE PUMP PISTONS and SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	SEAL	008807	7024206110310		SCHWING 5 \$
	SEAL	008808 008808-B	705422301052 29138	180 200	45 \$ SCHWING 50 \$
	SEAL	008809	70243070601		SCHWING 20 \$
	SEAL	008810	9944524338516		SCHWING 7 \$
	SEAL	008811			SCHWING 6 \$
	MIDDLE GEAR MOUNTING	008812			SCHWING 40 \$
		008813	7024206110310		SCHWING 45 \$

CONCRETE PUMP PISTONS and SPARE PARTS **ELBA-DRUETTA**

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	CONCRETE PUMP PISTON	008901	36000-15042	200	190 \$ ELBA - DRUETTA 100 \$
	CONCRETE PUMP PISTON	008902	35600-15132	180	160 \$ ELBA 90 \$
	CONCRETE PUMP PISTON	008903		160	140 \$ ELBA 80 \$
	SEAL	008904			55 \$ ELBA-DRUETTA
	SEAL	008905			NBR 16 \$ DRUETTA PU 22 \$

CONCRETE PUMP PISTONS and SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	PISTON	009001	152		180 \$ WORHINGTON 80 \$
	PISTON	009002	180		200 \$ TEKA 100 \$
	PISTON	009003	200		200 \$ MORGEN 100 \$
	PISTON	009004	200		180mm 180 \$ KAMAS 200mm 200 \$
	CLEANING BALL	009005		4" 5" 6" 7"	7 \$ 8 \$ 10 \$ 17 \$
	PIPE CLIP SEAL	009006		3" 4" 4,5" 5" 5,5" 6" 7"	1,2 \$ 1,4 \$ 1,5 \$ 1,5 \$ 1,6 \$ 1,7 \$ 2,0 \$
	PIPE MOUNTING	009007			8 \$

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	DAMPER LEANING	009501			VOLVO 140 \$
	VOLVO ENGINE MOUNTING	009502	BM 4600		VOLVO 60 \$
	A-35 SHOCK ABSORBER	009503	4946937		VOLVO 30 \$
	A-35 SHOCK ABSORBER	009504	4943458		VOLVO 40 \$
	AKERMAN WIPER SEAL	009505 009506 009507 009508		70 80 90 110	10 \$ 12 \$ 14 \$ 16 \$ VOLVO
	DUMPER	009509			VOLVO 45 \$
	CABIN MOUNTING	009510			VOLVO 50 \$

FINISHER WORKING MACHINES SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	FINISHER PAD	009601			75 \$ DYNAPAC DEMAG 30 \$
	FINISHER PAD	009602		1600 1700 1800	75 \$ VÖGELE 30 \$
	FINISHER PAD	009603			80 \$ DEMAG SCRAPER 35 \$
	ASPHALT LYING HELIX	009604			
	TABLE MOUNTING	009605			20 \$
	MOUNTING	009606			10 \$



WORKING MACHINES SPARE PARTS MIXERS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	MIXING PALLET	009701			50 \$
	NOZZLE SEAL	009702			30 \$ 20 \$
	MIXER WIPER SEAL	009703		215	60 \$
	MIXER WIPER SEAL	009704		150 160 165 180	35 \$ 40 \$ 45 \$ 50 \$
	MIXER COVER SEAL	009705			45 \$/mt

TAMROCK WORKING MACHINES SPARE PARTS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	DUST ABSORBER	009901	13488718 PN 800		TAMROCK 80 \$
	TIJ SEAL	009902	13224138		TAMROCK 25 \$
	DUST ABSORBER	009903	13545258		TAMROCK 40 \$
	PAD	009904	81438799		TAMROCK 15 \$

VALVE SEALS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	VALVE SEAL	011501		75x110x50	30 \$
	VALVE SEAL	011502		80x118x48	35 \$
	VALVE SEAL	011503		105x155x54	50 \$
	VALVE SEAL	011504		100x135x53	45 \$
	VALVE SEAL	011505		105x150x52	40 \$

COUPLINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	COUPLING	010001		50x133x17	25 \$
	COUPLING	010002 010003	73632	70x134x52 70x134x30	40 \$ 35 \$
	COUPLING	010004		123x190x40	70 \$
	COUPLING	010005		70x197x34	45 \$
	COUPLING	010006 010007 010008		60x143x18 60x162x30 95x240x37	25 \$ 35 \$ 60 \$
	CLUTCH PLATE COUPLING	010009 010010 010011		71x180x29 71x204x29 95x237x40	ATLAS 30 \$ 35 \$ 40 \$
	COUPLING	010012		116x220x35	30 \$

COUPLINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	COUPLING	010013		83x165x32	25 \$
	COUPLING	010014		60x142x29	30 \$
	TRANSFER COUPLING	010015		61x172x46	40 \$
	MIXING COUPLING 4 m ³	010016		80x200x50	60 \$
	COUPLING	010017		110x210x60	100 \$
	COUPLING	010018		140x280x70	140 \$
	COUPLING	010019		90x265x70	150 \$

COUPLINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	COUPLING	010020		140x350x95	180 \$
	COUPLING	010021		155x230x29	65 \$
	COUPLING	010022		154x208x48	45 \$
	COUPLING	010023		136x184x38	35 \$
	CLUTCHING COUPLING	010024 010025 010026		70x135x45 100x180x60 200x300x85	35 \$ 45 \$ 60 \$
	COUPLING	010027		CAT	35 \$




ENGINE MOUNTINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	BRAND	PRICE
	ENGINE MOUNTING	010501	17674	CHAMPION	10 \$
	ENGINE MOUNTING	010502	4I-7433	CAT 325	12 \$
	CABIN MOUNTING	010503			20 \$
	ENGINE MOUNTING	010504		CHAMPION	20 \$
	ENGINE MOUNTING	010505	4940758-8	VOLVO BM 5350	30 \$
	CABIN MOUNTING	010506		ATLAS	60 \$
	ENGINE MOUNTING	010507			30 \$




ENGINE MOUNTINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	BRAND	PRICE
	ENGINE MOUNTING	010508		JCB 330	30 \$
	ENGINE MOUNTING	010509			10 \$
	MOUNTING	010510			20 \$
	ENGINE MOUNTING	010511		LIEBHERR	10 \$
	MOUNTING	010512	3W2218	CAT	30 \$
	ENGINE MOUNTING	010513		MAN	15 \$
	GEAR BOX MOUNTING	010514	D8L D8N D9N	CAT	50 \$
	GEAR BOX MOUNTING	010515	Z-3	KAWASAKI	40 \$

ENGINE MOUNTINGS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	BRAND	PRICE
	ENGINE AND GEAR BOX MOUNTING	010516		john deere 544-C	15 \$
	SHOCK ABSORBER	010517		COBELCO	20 \$
	SHOCK ABSORBER	010518		KAWASAKI	30 \$

SHOCK ABSORBERS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	BRAND	PRICE
	SHOCK ABSORBER	011001	04010-22019	VIBROMAX1802 VIBROMAX1102	40 \$
	SHOCK ABSORBER	011002	04021-13023	VIBROMAX1601	80 \$
	SHOCK ABSORBER	011003	02622-21686	VIBROMAX1102	50 \$

SHOCK ABSORBERS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	SHOCK ABSORBER	011004	06119397		BOMAG 50 \$
	SHOCK ABSORBER	011005	06119394		BOMAG 25 \$
	SHOCK ABSORBER	011006	06180112		BOMAG 70 \$
	SHOCK ABSORBER	011007	CA-25 336742	150x150x65	DYNAPAC 40 \$
	SHOCK ABSORBER	011008	CA-35 35801187	175x175x75	50 \$ DYNAPAC
	SHOCK ABSORBER	011009	CA 51	175x175x100	DYNAPAC 70 \$
	SHOCK ABSORBER	011010	160055	150x150x65	BITELLI 40 \$
	SHOCK ABSORBER	011011	0035-4082	160x74	50 \$ HAMM
		011012	143-4650		CAT 50 \$

SHOCK ABSORBERS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	SHOCK ABSORBER	011013	E1B945E02 2100		POCLAIN 60 \$
	SHOCK ABSORBER	011014	59600205 SD.100 SD.150 DD.90		INGERSOLL RAND 50 \$
	SHOCK ABSORBER	011015	50265511 SP 60		INGERSOLL RAND 70 \$
	MOUNTING	011016			40 \$
	MOUNTING	011017	DD20		INGERSOLL RAND 45 \$
	MOUNTING	011018	273-70-11720 JV-100		KOMATSU 65 \$
	MOUNTING	011019	150034-3030 (1503-43030.1)		SAKAI 95 \$

SIEVE BUFFERS

	PRODUCT NAME	GYP CODE	ORIGINAL NO	SIZE	BRAND
	VIBRATION MOUNTING K - 03	011050			110 \$
	VIBRATION MOUNTING K - 02	011051			50 \$
	SIEVE BUFFERS	011052		150	40 \$
	SIEVE BUFFERS	011053		160	45 \$
	SIEVE BUFFERS	011054		180	60 \$
	SIEVE BUFFERS	011055		240	150 \$
	HELIX CONVEYOR SWEEPER	011056		500	
	HELIX CONVEYOR SWEEPER	011057		600	
	MOUNTING	011058			