



# ► KASTAS

## SEALING TECHNOLOGIES

Engineering for motion



# Engineering for motion

Motion is the one that enables life's flow, steers factories, massive industries, and the whole world... We have been manufacturing high-level engineering for this motion for more than 40 years.

By designing innovative products, developing high performance materials and using the most advanced production technologies, we are engineering for the future of sealing technologies.

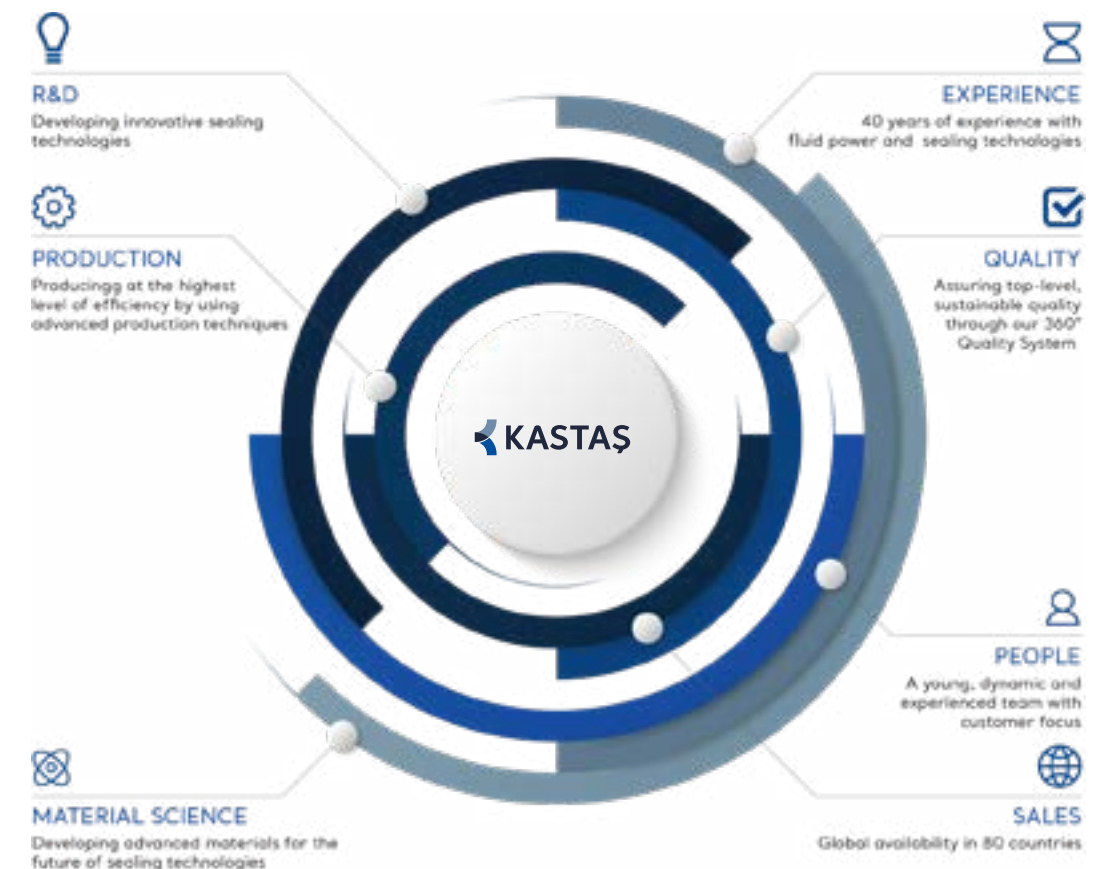
To carry the world's leading manufacturers in mobile hydraulics, construction, agriculture, production industries and automotive forward, and with the vision to become the world's first preferred sealing technologies manufacturer, our engineering is for motion.

## KASTAS SEALING TECHNOLOGIES

Kastaş is one of the world's leading manufacturers offering high-performance products in fluid power industry and innovative sealing solutions via its global sales network.

With a corporate vision of "being the first choice sealing technology partner of industries worldwide" and 40 years' experience in sealing, Kastaş puts innovation and entrepreneurship at the center of its strategies and aims to produce high-quality, innovative and reliable sealing technologies with a focus on efficiency, continuous improvement and customer satisfaction in all business processes.

- ✓ Wide range of customized products and experience on various applications
- ✓ State-of-the-art production technology for sustainable quality
- ✓ Well-structured R&D division for Material Science and Design Development
- ✓ Top Level Quality Assurance system certified by international authorities
- ✓ Global sales and distribution networks, assuring highest level of service and worldwide availability





# SALES AND DISTRIBUTION

Kastaş offers a wide range of products and innovative sealing solutions to its customers who benefit from its superior service approach, with its central sales office, branches, and authorized dealers within Kastas Europe GmbH located in Germany, and distributors operating in Turkey and 81 other countries across the globe.

Kastaş is one of the world's leading fluid power sealing manufacturers offering a wide range of high-performance products and innovative sealing solutions via its global sales network. In addition to the unique product and size range it offers in hydraulic and pneumatic sealing elements, it develops bespoke sealing solutions required in many sectors, especially automotive, food and chemical industry.



- 4.200m<sup>2</sup> main distribution center
- Over 30,000 unique products
- More than 2,000 orders processed daily
- Export to 81 countries



Izmir Distribution Center



Kastas Europe GmbH  
European Sales and Distribution Center,  
Germany



- Overnight deliveries to Europe
- Delivery within 2 days to North America
- Sales, marketing and technical departments
- OEM project development



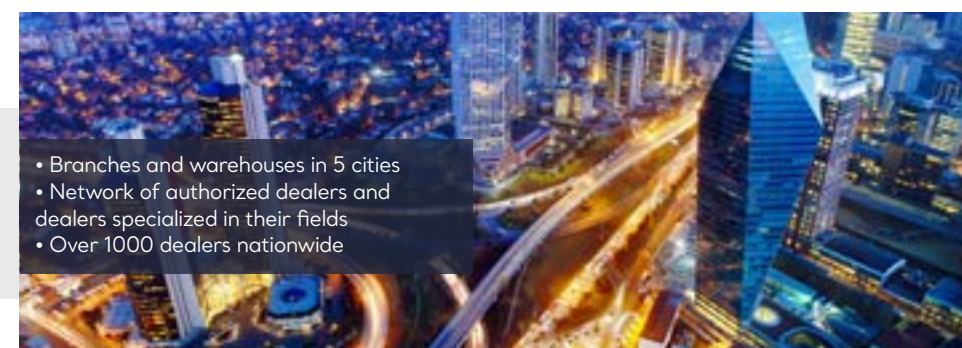
- Over 300 distributors in 81 countries
- Approved supplier of the world's leading machinery and equipment manufacturers
- Product availability on 6 continents



Global Sales Network



Domestic Sales Network



- Branches and warehouses in 5 cities
- Network of authorized dealers and dealers specialized in their fields
- Over 1000 dealers nationwide



- Online sales portal serving thousands of customers worldwide
- Modern and comprehensive user experience
- Access to user-specific products and prices
- Instant stock check

**seal-Link**  
ONLINE Sales Portal



# R&D

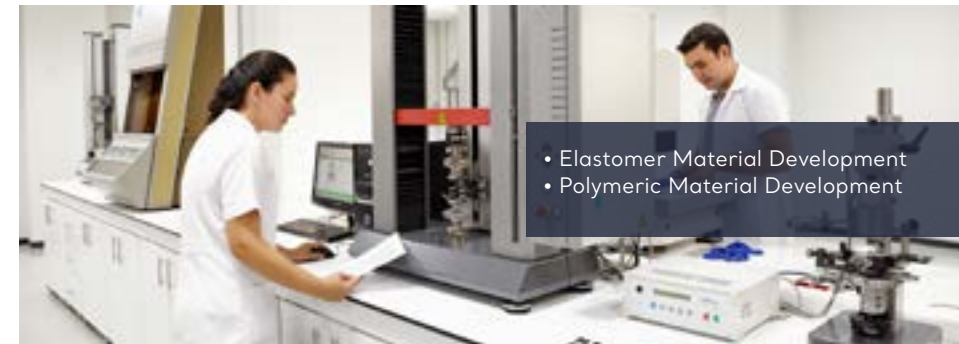
At Kastaş, we research the future of sealing and develop innovative sealing technologies, as R&D is the main driver of our growth and at the center of our main strategic goals.

Our R&D team, specialized multidisciplinary, carries out the activities with the aim of developing advanced sealing technologies and efficient solutions.

Our R&D activities consist of design development, material development, process and production technologies, and tests and simulations, all of which are run by an experienced team. As our aim is to continue developing products based on innovative designs and high-performance materials, we are committed to investing in advanced production technologies which will boost our quality and efficiency.

## Design Development

- Product and Mold Design
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics
- Product Testing



- Elastomer Material Development
- Polymeric Material Development

## Material Development

## Test Center

- Hydraulic Rod Test Rig
- Hydraulic Piston Test Rig
- Wiper Test Rig
- Guiding Element Test Rig
- Cold Resistance Test Rig
- High Pressure Test Rig
- Pneumatic Test Rig
- Ultra-Low Test Rig

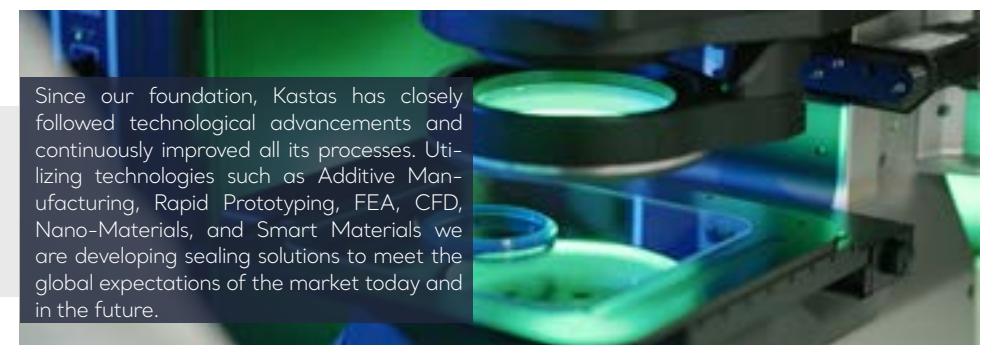


Kastaş develops the machinery, equipment, and systems required for both new procedures and improvements of the existing processes.

## Process Development

## Advanced Technologies

Since our foundation, Kastaş has closely followed technological advancements and continuously improved all its processes. Utilizing technologies such as Additive Manufacturing, Rapid Prototyping, FEA, CFD, Nano-Materials, and Smart Materials we are developing sealing solutions to meet the global expectations of the market today and in the future.



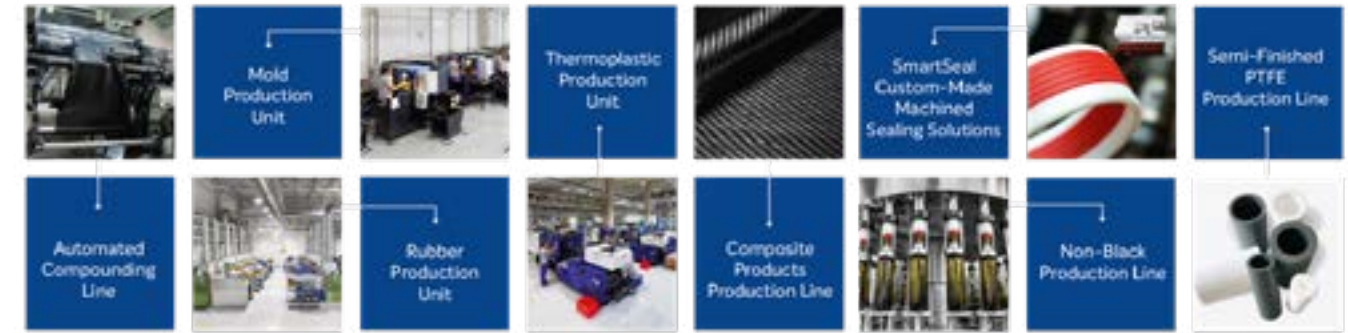


# PRODUCTION

Efficiency, quality and operational excellence are at the forefront of Kastaş's production targets.

To meet our customers' quality, delivery schedule and cost expectations, we are continually investing in the most advanced production technologies and automation systems in order to maintain our competitive advantage at the global scale.

Kastaş realizes all production processes internally—from compounding to post-processing—under one roof, which allows us to meet the high quality and efficiency targets while sustaining flexibility in planning. Moreover, we use advanced control, tracking and production management systems throughout the manufacturing cycle.



- ☑ One of the most modern sealing elements production facilities in the world
- ☑ Modern working environment that increases quality and productivity
- ☑ Innovative production technology aimed at continually increasing efficiency while meeting high quality standards
- ☑ Automation in production investments, targeting cost efficiency, sustainable quality and competitive advantage

 <p><b>INJECTION MOLDING MACHINES</b></p> <p>High-capacity machines and advanced tooling technologies</p> <p>Production up to 650 mm</p>	 <p><b>VULCANIZATION PRESSES</b></p> <p>Multi-cavity production</p> <p>Production up to 1200 mm</p>	 <p><b>SMART SEAL CUSTOM-MADE MACHINED SEALING SOLUTIONS</b></p> <p>Wide range of materials</p> <p>Production up to 1500 mm</p>
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## QUALITY MANAGEMENT

Every link of the production chain at Kastaş, starting from the raw material to the final product, is guided by the "Zero Defects" objective.

Kastaş Quality System is based on all applicable international standards and is an important part of our organizational culture. Apart from adhering to the ISO 9001 and IATF 16949 standards, which are audited by international institutions, we also employ comprehensive internal audit processes to ensure the effectiveness of our quality system in all our business processes. In accordance with continuous improvement studies, along with Lean Manufacturing, 6 Sigma and Kaizen practices, we are continually upgrading our quality system in line with our business goals.



Hydraulic Press



Construction Machinery



Food and Beverage



Plastic Injection



Mining Industry



## INDUSTRIES

Kastaş firmly believes that knowledge and experience are vital for the long-term performance and application engineering of sealing elements. That's why more than 40 engineers and a dedicated R&D department at Kastaş focus on new and innovative sealing solutions for various industries every day. By examining the requirements of each application, creating simulations, testing systems in-house and in-field, our aim is to offer our customers the most efficient and reliable sealing solutions.



Agricultural Machinery



Mobile Hydraulics



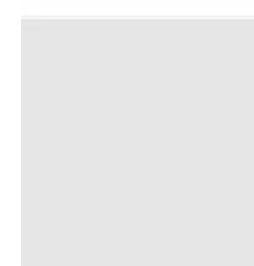
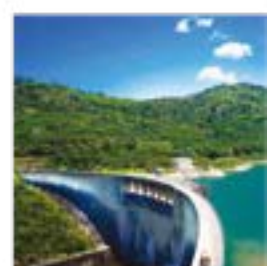
Metallurgy



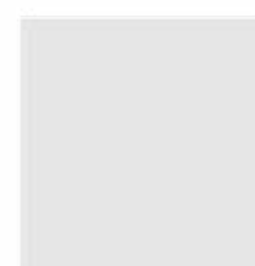
Wind Power



Automotive



















Marine




Hydro Power



# PRODUCT PROGRAM

Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>HYDRAULIC ROD SEALING ELEMENTS</b>								
FR200	Low Friction Rod Seal		Rod	PU	PU9401	400	-35/+100	0.5
XT200	Extrusion Resistant Rod Seal		Rod	PU	PU9401	400	-35/+100	0.5
K01	Rod Packing		Rod	NBR FABRIC NBR POM	NB9001 FB8001 PM9903 FB9001	400	-30/+100	0.5
K22	Rod Seal		Rod	PU	PU9201	400	-40/+100	0.5
				NBR	NB9001	150	-35/+105	
K29	Buffer Seal		Rod	PU POM	PU9201 PM9901	400	-40/+100	0.5
K31	Heavy Duty Rod Seal		Rod	NBR PU POM	NB7001 PU9401 PM9901	630	-30/+100	0.5
K32	Rod Seal		Rod	PU POM	PU9401 PM9901	400	-35/+100	0.5
K33	Rod Seal		Rod	PU	PU9401	400	-35/+100	0.5
K34	Rod Seal		Rod	NBR FABRIC NBR TPE POM	NB8001 FB8001* TP7301 PM9901	700	-30/+100	0.5
K35	Rod Seal		Rod	PTFE NBR	PT6003 NB7001	400	-30/+105	15.0
				PU NBR	PU6001 NB7001	400	-30/+100	1.0
K37	Rod Seal		Rod	NBR FABRIC NBR POM	NB8001 FB8001 PM9901	400	-30/+100	0.5
K38	Rod Seal		Rod	PU	PU9401	400	-35/+100	0.5
K701	Rod Seal		Rod	PTFE V YAY	PT6005 CN9902	350	-70/+260	15.0
K704	Rod Seal		Rod	PTFE NBR	PT6003 NB8001	400	-30/+105	5.0
K97	Rod Seal		Rod	HNBR	HB9001	250	-30/+150	0.5
K39	Rod Seal		Rod	NBR FABRIC NBR	NB8001 FB8001	250	-30/+100	0.5

Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>HYDRAULIC PISTON SEALING ELEMENTS</b>								
XT300	Piston Seal		Piston	PU	PU9401	400	-35/+100	0.5
K03	Piston Packing		Piston	FABRIC NBR POM	FB8001 PM9903	400	-30/+100	0.5
K15	Piston Seal		Piston	PU NBR	PU9401 NB7001	250	-30/+100	0.5
K16	Compact Piston Seal		Piston	NBR FABRIC NBR POM	NB8001 FB8001 PM9901	400	-30/+100	0.5
K17X	High Performance Piston Seal		Piston	NBR PTFE	PT6003 NB7001	400	-30/+105	15.0
K17	Piston Seal		Piston	PTFE NBR	PT6003 NB7001	400	-30/+105	15.0
K18	Compact Piston Seal		Piston	NBR TPE POM	NB8001 TP7301 PM9901	400	-30/+100	0.5
K19	Heavy Duty Piston Seal		Piston	PTFE NBR POM	PT6003 NB8001 PM9901	400	-30/+100	1.5
K23	Piston Seal		Piston	PU	PU9201	400	-40/+100	0.5
				NBR	NB9001	150	-30/+105	
K26	Piston Seal		Piston	NBR STEEL SPRING	NB9001 FE9901 CN9901	60	-30/+105	0.5
K40	Piston Seal		Piston	PU POM	PU9401 PM9901	400	-35/+100	0.5
K41	Piston Seal		Piston	PTFE NBR	PT6003 NB7001	400	-30/+105	15.0
K42	Compact Piston Seal		Piston	NBR TPE POM	NB8001 TP7301 PM9905	700	-30/+100	0.5
K46	Compact Piston Seal		Piston	PU POM NBR	PU9201 PM9901 NB7001	400	-30/+100	0.5
K48	Compact Piston Seal		Piston	NBR TPE POM	NB8001 TP5501 PM9901	700	-30/+100	0.3
K49	Piston Seal		Piston	PU NBR	PU6001 NB8001	400	-30/+100	0.5
K501	Piston Seal		Piston	PA NBR	PA9904 NB7001	500	-30/+105	1.0
K502	Compact Piston Seal		Piston	NBR FABRIC NBR POM	NB8001 FB8001 PM9901	500	-30/+100	0.5
















Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>HYDRAULIC PISTON SEALING ELEMENTS</b>								
K503	Compact Piston Seal		Piston	NBR TPE POM	NB8001 TP7301 PM9901	500	-30/+100	0.5
K504	Compact Piston Seal		Piston	NBR FABRIC NBR POM	NB8001 FB8001 PM9901	400	-30/+100	0.5
K505	Compact Piston Seal		Piston	NBR FABRIC NBR POM	NB8001 FB8001 PM9901	500	-30/+100	0.5
K518	Compact Piston Seal		Piston	NBR TPE POM	NB8001 TP7301 PM9905	400	-30/+100	0.5
K518X	High Performance Compact Piston Seal		Piston	NBR TPE PA	NB8001 TP7301 PA9904	400	-30/+100	0.5
K751	Piston Seal		Piston	PTFE STAINLESS STEEL	PT6005 CN9902	350	-70/+260	15.0
K753	Piston Seal		Piston	PTFE NBR	PT6003 NB7001	400	-30/+105	2.0
K755	Piston Seal		Piston	PTFE NBR	PT6003 NB8001	400	-30/+105	5.0
K757	Piston Seal		Piston	PTFE NBR	PT6003 NB7001	400	-30/+105	2.0


<b>WIPERS</b>								
K05	Wiper		Rod	PU	PU9401		-35/+110	1.0
K06	Wiper		Rod	PU	PU9201		-40/+100	1.0
				NBR	NB9001		-30/+105	
K07	Metal Case Wiper		Rod	NBR STEEL	NB9001 FE9901		-30/+100	1.0
				PU STEEL	PU9201 FE9901		-30/+100	1.0
K09	Wiper		Rod	PU	PU9201		-40/+100	1.0
				NBR	NB9001		-30/+105	
K10	Double Wiper		Rod	NBR	NB9001		-30/+105	1.0
K11	Wiper		Rod	TPE	TP5501		-40/+100	2.0
K12	Metal Case Wiper		Rod	PU STEEL	PU9501 FE9901		-30/+100	1.0
K13	Metal Case Wiper		Rod	PU STEEL	PU9501 FE9901		-30/+100	1.0









Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>WIPERS</b>								
K27	Double Wiper		Rod	PU	PU9201		-40/+100	1.0
				NBR	NB9001		-30/+105	
K94	Wiper		Rod	PU	PU9401		-35/+100	1.0
K103	Double Wiper		Rod	PU	PU9201		-40/+100	1.0
				NBR	NB9001		-30/+105	
K107	Wiper		Rod	PU	PU9201		-40/+100	1.0
K703	Wiper		Rod	PTFE NBR	PT6003 NB7001		-30/+105	5.0
K716	Wiper		Rod	PTFE NBR	PT6003 NB7001		-30/+105	5.0
K92	Metal Case Wiper		Rod	NBR STEEL BRONZE	NB7001 FE9901 FS9001		-30/+105	1.0
K101	External Wiper		Piston	PU	PU9201		-40/+100	1.0
K102	Wiper		Rod	PU STEEL	PU9401 FE9901		-35/+100	1.0
K105	Wiper		Rod	POM	PM9901		-40/+100	1.0
K705	Wiper		Rod	PTFE NBR	PT6003 NB7001		-30/+105	5.0
K706	Wiper		Rod	PTFE NBR	PT6003 NB7001		-30/+105	5.0

<b>HYDRAULIC PISTON-ROD SEALING ELEMENTS</b>								
K21	Piston Rod Seal		Piston Rod	PU	PU9201	400	-40/+100	0.5
				NBR	NB9001	150	-30/+105	
K36	Piston Rod Seal		Piston Rod	NBR FABRIC NBR	NB8001 FB8001	250	-30/+100	0.5
K98	Piston Rod Seal		Piston Rod	PU NBR	PU9201 NB7001	400	-30/+100	0.5
K95	Piston Rod Seal		Piston Rod	NBR	NB9001	150	-30/+105	0.5
K114	Piston Rod Seal		Piston Rod	PU NBR	PU9401 NB7001	400	-30/+105	0.5
KX	X-Ring		Piston Rod	NBR	NB7001	50	-30/+105	0.5






Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>GUIDE ELEMENTS</b>								
K68	Rod Guide Ring		Rod	POM	PM9902		-40/+110	1.0
K69	Piston Guide Ring		Piston	POM	PM9902		-40/+110	1.0
K73	Piston-Rod Guide Ring		Piston Rod	SYNTHETIC FIBER, POLYESTER RESIN	PR6501		-40/+120	1.0
K75	Piston-Rod Guide Ring		Piston Rod	SYNTHETIC FIBER, PHENOLIC RESIN WITH PTFE	PH6501		-40/+130	1.0
K78	Piston-Rod Guide Ring		Piston Rod	PHENOLIC ARAMID	PH6504		-40/+200	1.0
K79	Piston-Rod Guide Ring		Piston Rod	POLYESTER FIBER, PHENOLIC RESIN GRAPHITE	PH6503		-40/+120	5.0
KBT	PTFE, Bronze Guide Strip		Piston Rod	PTFE	PT6003		-200/+260	15.0
KKT	Carbon, PTFE Guide Strip		Piston Rod	PTFE	PT6002		-200/+200	15.0
KPB	Polyester Resin, Guide Strip		Piston Rod	SYNTHETIC FIBER, POLYESTER RESIN	PR6501		-40/+120	1.0
KSB	Piston-Rod Guide Strip		Piston Rod	POLYESTER FIBER, PHENOLIC RESIN	PH6502		-40/+120	1.0
K71	Rod Guide Ring		Rod	POM	PM9901		-40/+100	1.0
K77	Rod Guide Ring		Rod	POM	PM9901		-40/+100	1.0
<b>STATIC SEALS</b>								
K800	Back-up Ring		Rod	X-Tone	PK7502	600	-30/+120	1.0
K81	Back-up Ring		Piston Rod	TPE	TP5501	300	-40/+100	1.0
K82	Static Seal			PU	PU9401	600	-35/+110	


















Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>STATIC SEALS</b>								
K83	Static Seal			PU	PU9401	600	-35/+110	
K84	Static Seal			PU	PU9401	600	-35/+110	
K85	Static Seal			PU	PU9401	500	-35/+110	
K86	Static Seal			PU	PU9201	500	-40/+100	
KO	O-ring		Piston Rod	NBR	NB7001	63	-30/+105	0.5
K87	Fluid Connector Seal			NBR	NB8501	400	-30/+105	
K88	Fluid Connector Seal			NBR	NB8001	400	-30/+105	
K89	Static Seal			PU	PU9401	600	-35/+110	

<b>SPECIAL SEALING ELEMENTS</b>								
K702	Rod Seal		Rod	PTFE NBR	PT6003 NB7001	300	-30/+105	5
K752	Piston Seal		Piston	PTFE NBR	PT6003 NB7001	300	-30/+105	5
K14	V-ring			NBR	NB6010	0.3	-30/+105	12.0
K150	Chevron Ring		Rod	FABRIC NBR	FB8502	250	-30/+80	2.0
K151	High Pressure Chevron Seal		Rod	FABRIC NBR POM PTFE	FB8502 PM9901 PT6005	400	-30/+80	2.0
K152 K153	Low Pressure Chevron Seal		Rod	FABRIC NBR POM	FB8502 PM9901	80	-30/+80	2.0
K154	Low Pressure Chevron Seal		Rod	NBR FABRIC NBR	NB9001 FB8504	80	-30/+80	2.0
K155	High Pressure Chevron Seal		Rod	POM FABRIC NBR PA	PM9902 FB8502 PA9902	400	-30/+80	2.0



Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>PNEUMATIC PISTON SEALING ELEMENTS</b>								
K30	Pneumatic Rod Seal		Rod	NBR STEEL	NB7001 FE9901	16	-30/+105	1.0
K51	Pneumatic Rod Seal		Rod	PU	PU9204	16	-35/+100	1.0
K52	Pneumatic Rod Seal		Rod	PU	PU9201	16	-35/+100	1.0
				NBR	NB9001	12	-30/+105	
K53	Pneumatic Rod Seal		Rod	PU	PU9201	16	-35/+100	1.0
				NBR	NB9001	12	-30/+105	
K56	Pneumatic Rod Seal		Rod	NBR TPE	NB8001 TP5501	16	-30/+100	1.0
K64	Pneumatic Rod Seal		Rod	PU	PU9201	16	-30/+100	1.0
K106	Pneumatic Rod Seal		Rod	NBR	NB8001	12	-30/+105	1.0
K130	Pneumatic Rod Seal		Rod	NBR	NB8001	12	-30/+105	1.0
K67	Pneumatic Rod Seal		Rod	NBR	NB7001	10	-30/+105	1.0
K109	Pneumatic Rod Seal		Rod	NBR	NB7001	16	-30/+105	1.0
K131	Pneumatic Rod Seal		Rod	NBR	NB7501	16	-30/+105	1.0
K715	Pneumatic Rod Seal		Rod	PTFE NBR	PT6005 NB7001	16	-30/+105	4.0

<b>PNEUMATIC GUIDE ELEMENTS</b>								
K79	Piston-Rod Guide Rings		Piston Rod	SYNTHETIC FIBER, POLYESTER RESIN, GRAPHITE	PH6503		-40/+120	5.0
KKT	Carbon Filled PTFE Guide Strip		Piston Rod	PTFE	PT6002		-200/+200	15.0
K70	Piston-Rod Guide Rings		Piston Rod	POM	PM9901		-30/+80	1.0

Kastaş No	Product Name	Drawing	Application	Material	Code	Pressure (max) bar	Temperature (max) °C	Sliding Speed (max)-m/s
<b>PNEUMATIC PISTON SEALING ELEMENTS</b>								
K25	Pneumatic Piston Seal		Piston	NBR STEEL	NB7501 FE9901	16	-30/+105	1.0
K50	Pneumatic Piston Seal		Piston	PU	PU8502	16	-20/+80	1.0
				NBR	NB8001	12	-30/+105	
K54	Pneumatic Piston Seal		Piston	NBR	NB7001	12	-30/+105	1.0
K55	Pneumatic Piston Seal		Piston	NBR ALUMINIUM	NB7001 AL9901	12	-30/+105	1.0
K57	Pneumatic Piston Seal		Piston	NBR ALUMINIUM	NB7001 AL9901	12	-30/+105	1.0
K58	Pneumatic Piston Seal		Piston	PU POM ALUMINIUM MAGNET NBR	PU9201 PM9901 AL9901 MK9901 NB7001	16	-30/+80	1.0
K59F	Pneumatic Piston Seal		Piston	PU	PU8502	16	-20/+80	1.0
K59	Pneumatic Piston Seal		Piston	PU	PU8502	16	-20/+80	1.0
				NBR	NB8001	12	-30/+105	
K61	Pneumatic Piston Seal		Piston	NBR POM ALUMINIUM NBR	NB8001 PM9901 AL9901 NB7001	12	-30/+100	1.0
K62	Pneumatic Piston Seal		Piston	NBR	NB7001	12	-30/+105	1.0
K63	Pneumatic Piston Seal		Piston	NBR	NB7001	12	-30/+105	1.0
K65	Pneumatic Piston Seal		Piston	NBR	NB7001	12	-30/+105	1.0
K66	Pneumatic Piston Seal		Piston	NBR	NB8001	12	-30/+105	1.0
K506	Pneumatic Piston Seal		Piston	NBR	NB8501	12	-30/+105	1.0
K761	Pneumatic Piston Seal		Piston	PTFE NBR	PT6005 NB7001	16	-30/+105	4.0
K160	Pneumatic Piston Seal		Piston	PU	PU9204	16	-30/+100	1.0
K161	Pneumatic Piston Seal		Piston	PU	PU9204	16	-30/+100	1.0





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