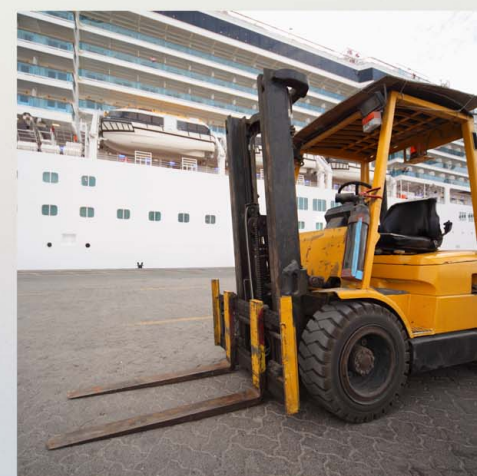
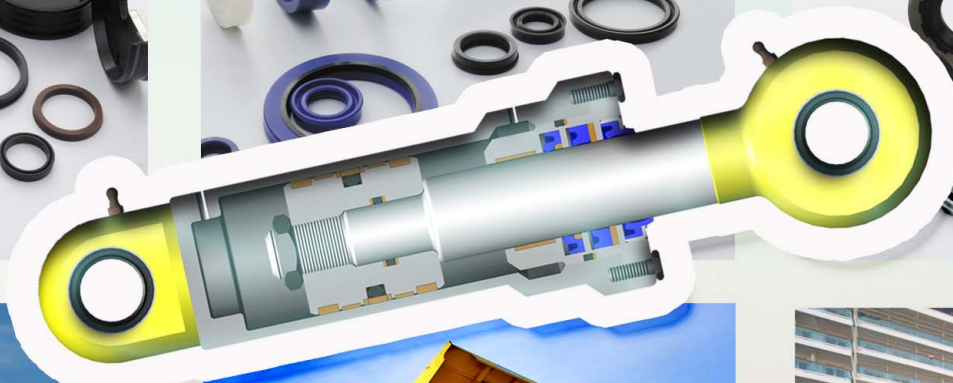




PRODUCT INFORMATION

NAK SEALING SOLUTIONS FOR HYDRAULIC & PNEUMATIC





NAK HYDRAULIC & PNEUMATIC SEALS

NAK was established in 1976, and became the first sealing manufacturing company in Taiwan to take its stock public in January of 2002. NAK's value-added products have been in high demand across both global and domestic markets due to its brand recognition, created by the quality of its products. Through the years, NAK has evolved into the No.1 leading manufacturer of sealing products in Taiwan, and secured its position and reputation in five continents of the world.

NAK has a strong and dedicated R&D team, where we not only design, develop and do material research but we take the initiative following up with our customers. Our R&D team has constant communication with our customers to obtain their specifications, requirements and demands, taking customer satisfaction to a higher level.

In a desire to reduce overhead costs, we have developed complex seal designs by a full implementation of FEA software (Finite Element Analysis). Our process initiates a theoretical analysis for material composition, pressure, temperature rise, and oil film, combining the designed prototype product and tooling with an in-house self-developed software known as SCAD to decrease failure rates during trial runs.



As for the material research at NAK we have a research lab entirely aligned as per regulations for complex testing procedures such as, rubber compounding, material characteristic testing, processibility of un-vulcanized rubber, hardness of plastic and rubber, material tensile strength and adhesive strength, heat aging / oil immersion / fuel immersion / low temp. properties / compression set, test of rebound properties /microscopy of compound dispersion, FT-IR analysis, down to the quality inspections which are all executed systematically.

At NAK all our CNC machines are internally connected to the SMART CAM computer and the mainframe network called the Machine center that provides shared processing resources to all the machines on demand. Thus, making the manufacture of our tooling molds much more precise and efficiently connecting to our mold manufacturing network to further secure our product quality.

For NAK to become an international enterprise and operate under a global strategic management model, our future orientations will focus on product differentiations and global positioning. NAK will primarily focus in the aggressive development of high performance and high value added seals, expansion of company size and boost technical competence so as to strengthen the functions and capabilities of our technical service team to meet market demands and also raise our global competing leverages. NAK will also use our overseas investment and strategic joint ventures to conceive global distributing channels and products varieties to meet the customer's never ending changes and demands!



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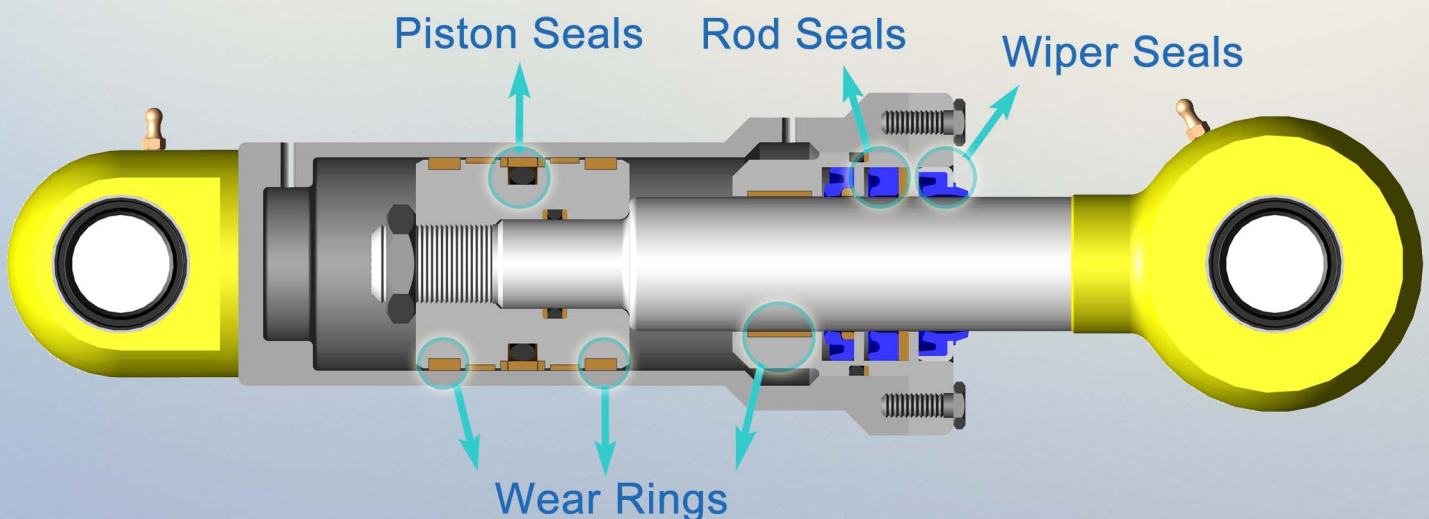
INTRODUCTION

NAK Hydraulic & Pneumatic Seals include Piston Seals, Rod Seals, Wiper Seals, Wear Rings, and etc. Rubber, Polyurethane, PTFE, Nylon and other materials are used to create a variety of seals to work under different hydraulic and pneumatic conditions. Most of these seals are designed for the reciprocating motion used commonly in hydraulic and pneumatic applications such as cylinders. To meet the critical requirements of the hydraulic and pneumatic equipment industries, NAK offers a wide range of designs.

For the hydraulic and pneumatic equipment, the cylinder design is getting more and more complicated. As a result, for the cylinder application, a variety of different seals are required, and the seals need to offer long service life and reliability. Sealing elements are critical components for the hydraulic and pneumatic cylinder application. Their main function is to prevent the cylinder fluid or gas from escaping, so as to ensure the normal functioning of the cylinder whether in a pressurized or un-pressurized state.

Function of Cylinder Seals

Wiper Seal	To prevent external contaminants from entering the system
Rod Seal	Installed and fixed on the cylinder bore to seal against the rod.
Piston Seal	Installed and fixed on the piston groove to seal against the cylinder
Wear Ring	To prevent metal-to-metal contact



INTRODUCTION

Sealing elements are vital in the hydraulic and pneumatic equipment. Their use is critical and they provide a way for the fluid power to be changed into linear motion. However, seal failure can be detrimental to the equipment, and it is important to have the right seals installed. Selection of proper hydraulic and pneumatic seals is depends on the following factors:



– Shaft outer diameter (seal inner diameter);
bore diameter (seal outer diameter);
axial cross section and radial cross section.



– Fluid temperature and operating temperature.
Both average and peak temperatures should be taken into consideration.



– Hydraulic or pneumatic; piston or rod;
surface conditions of shaft and housing bore;
for use under dry running, lubrication or without lubrication.



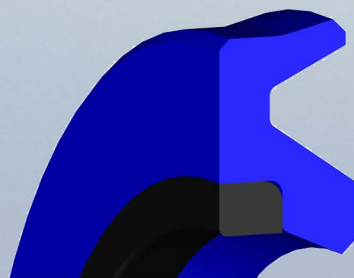
– Type of media, its volume, and etc.



– Static as well as dynamic pressure should be noticed.
Maximum operating pressure is also an important parameter.



– Number of cylinder strokes, maximum speed, and etc.



MATERIAL

Item Material	Temp. Range (°C)		Property
	Low Temp.	High Temp.	
NBR	-40	100	Good resistance to alcohol, amines, petroleum oils, and gasoline over a wide range of temperatures. Also good resistance to caustic salts. Poor in strong oxidizing agents, chlorinated hydrocarbons, ketones, and esters.
FKM	-25	250	Excellent chemical resistance but ester and ketone. The cost is high. Good resistance to most oil and solvents
PU	-40	100	Extremely good tensile strength, abrasive resistance, tear strength, and extrusion strength but poor resistant to polar solvents, chlorinated hydrocarbons, aromatics, brake fluids, acids, and alkalis.

NBR

NBR is a polymer of butadiene and acrylonitrile. It is the most generally used material in all areas of seal technology due to its good physical and mechanical characteristics. The acrylonitrile (ACN) content affects physical property of NBR. When it contains high ACN, the hardness, tensile strength, oil resistance, heat resistance and etc. will increase. On the contrary, lower ACN contains will increase the elasticity and low temperature property. It is most frequently used in hydraulic and pneumatic system due to it is highly resistant to mineral oils, vegetable oils, many acids and improving the ozone resistance by recipe design.

FKM

FKM has various composition and fluorine contents from 66 to 70% is good characteristic. It has high resistance to temperature, weathering, ozone, and chemicals. It also has good tensile strength, resilience, low compression set. Moreover, it is highly resistant to almost all mineral oil based and synthetic-based hydraulic fluids. In contrast, it is not resistant to polar solvents, ketones, and brake fluid.

PU

Polyurethane is one of the groups of elastic thermoplastic materials. PU has been used in seal technology for many years because of their good physical characteristics. It is an organic material of high molecular weight whose chemical composition is characterized by a large number of urethane groups. In addition, it is characterized by extremely good mechanical properties such as high tensile strength, abrasive resistance, tear strength, and extrusion strength. However, it is not resistant to polar solvents, chlorinated hydrocarbons, aromatics, brake fluids, acids, and alkalis.

Material	Code	Hardness (Shore A)	Temperature range (°C)	Characteristic
NBR	NK761	71	-40 ~ 100	For resistant oils and friction
	NKC61	75	-40 ~ 100	For resistant oils and low temperature
	NK961	87	-35 ~ 100	For high hardness and high pressure
FKM	VN761	71	-25 ~ 200	For high temperature condition
	VNC06	75	-25 ~ 200	For reciprocating action and high temperature
	VN901	88	-20 ~ 200	For high hardness and high temperature
PU	UB903	94	-40 ~ 100	For high pressure and friction
	UB904	94	-40 ~ 100	For high pressure and friction
	UK908	95	-40 ~ 100	For high pressure and friction

Item Material	Oil Resistance	Base Resistance	Acid Resistance	Water Resistance	Weather Resistance	Abrasion Resistance
NBR	◎	○	○	○	△	◎
FKM	◎	△	○	○	◎	◎
PU	◎	△	△	△	◎	◎

◎ : Excellent


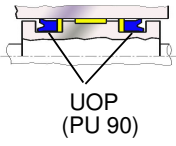
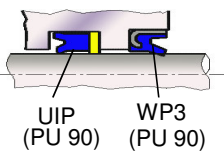
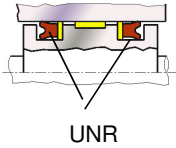
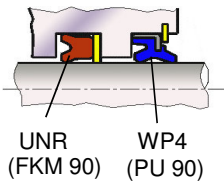
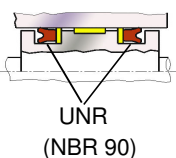
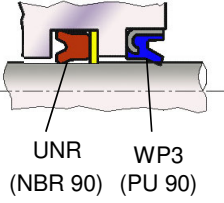

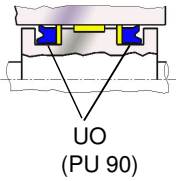
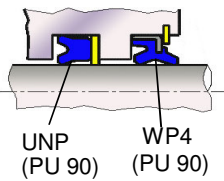
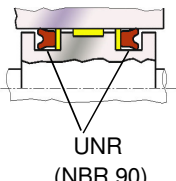
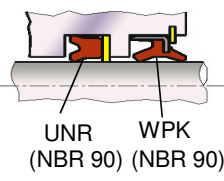
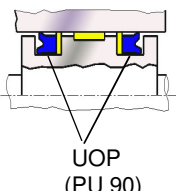
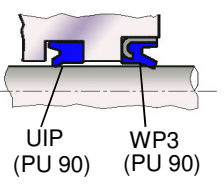
○ : Fair

△ : Poor


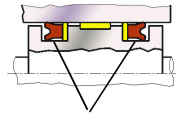
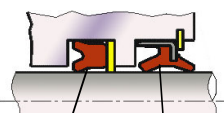

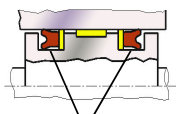
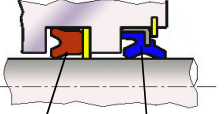

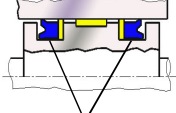
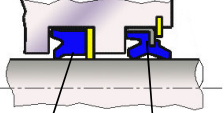

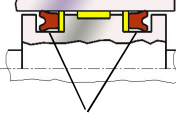
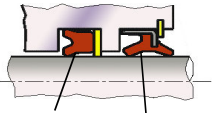
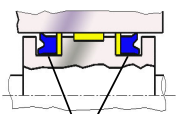
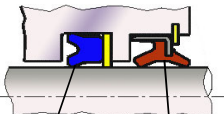

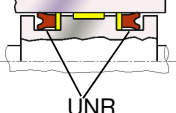
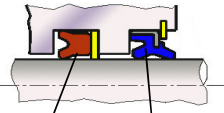
× : Very Poor




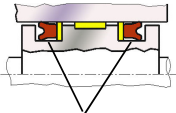
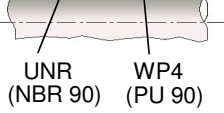

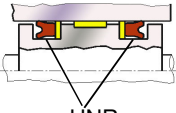
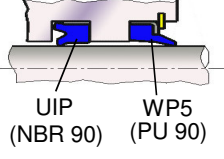

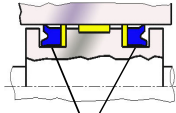
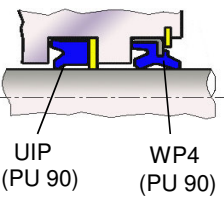

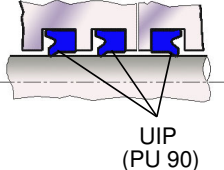

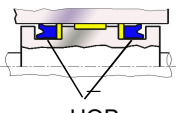
CLASSIFICATION OF ROD SEALS AND PISTON SEALS

Type	Application conditions	Piston seal	Characteristic	Rod seal	Characteristic
	0 ~ 20 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	 UIP (PU 90) WP3 (PU 90)	UIP has an asymmetrical profile of the sealing lips. WP3 protects cylinders against ingress of dirt and maintains sealing performance of packings.
	Heat-resistant 0 ~ 14 Mpa -25 ~ 200°C	 UNR (FKM 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (FKM 90) WP4 (PU 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WP4 can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WP3 (PU 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WP3 protects cylinders against ingress of dirt and maintains sealing performance of packings.
	0 ~ 14 Mpa -30 ~ 100°C	 UO (PU 90)	UOP has excellent wear resistance and sealing ability.	 UNP (PU 90) WP4 (PU 90)	UNP has a symmetrical profile of the sealing lip, excellent wear resistance, and sealing ability. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WP4 can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WPK (NBR 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WPK protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WPK can prevent oil from scraping off.
	0 ~ 20 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	 UIP (PU 90) WP3 (PU 90)	UIP has an asymmetrical profile of the sealing lips. WP3 protects cylinders against ingress of dirt and maintains sealing performance of packings.









CLASSIFICATION OF ROD SEALS AND PISTON SEALS

Type	Application conditions	Piston seal	Characteristic	Rod seal	Characteristic
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WPK (NBR 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WPK protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WPK can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WP4 (PU 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WP4 can prevent oil from scraping off.
	0 ~ 20 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	 UOP (PU 90) WP4 (PU 90)	UOP has an asymmetrical profile of the sealing lips. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, it can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WPK (NBR 90)	UNR has a symmetrical profile of the sealing lip, and the height of both sealing lip is equal. WPK protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WPK can prevent oil from scraping off.
	0 ~ 20 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	 UNP (PU 90) WPK (NBR 90)	UNP has a symmetrical profile of the sealing lip, excellent wear resistance, and sealing ability. WPK protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WPK can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WP4 (PU 90)	UNR has a symmetrical profile of the sealing lip, the height of both sealing lip is equal. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, it can prevent oil from scraping off.









CLASSIFICATION OF ROD SEALS AND PISTON SEALS

Type	Application conditions	Piston seal	Characteristic	Rod seal	Characteristic
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UNR (NBR 90) WP4 (PU 90)	UNR has a symmetrical profile of the sealing lip, the height of both sealing lip is equal. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, it can prevent oil from scraping off.
	0 ~ 14 Mpa -30 ~ 100°C	 UNR (NBR 90)	UNR has a symmetrical profile of the sealing lips, and the height of both sealing lip is equal.	 UIP (NBR 90) WP5 (PU 90)	UIP has an asymmetrical profile of the sealing lips. WP5 protects cylinders against ingress of dirt and maintains sealing performance of packings. WP5 has high dustproof performance.
	0 ~ 20 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	 UIP (PU 90) WP4 (PU 90)	UIP has an asymmetrical profile of the sealing lips. WP4 protects cylinders against ingress of dirt and maintains sealing performance of packings. Having a double lip, WP4 can prevent oil from scraping off.
	0 ~ 16 Mpa -30 ~ 100°C	—	—	 UIP (PU 90)	UIP has an asymmetrical profile of the sealing lips.
	0 ~ 16 Mpa -30 ~ 100°C	 UOP (PU 90)	UOP has excellent wear resistance and sealing ability.	—	—

SELECTION OF SEALS - ROD SEAL



Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
UIP		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for rod hydraulic application.	Hydraulic	33
UIP2		PU	40	0.5	-40~100	Seal designed with asymmetric lips. The secondary edge can reduce leakage, friction, and dirt ingress. Usually used for rod hydraulic application.	Hydraulic	43
UIP3		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for rod hydraulic application.	Hydraulic	57
UIP8		PU	40	0.5	-40~100	Seal designed with asymmetric lips. The secondary edge can reduce leakage, friction, and dirt ingress. Usually used for rod hydraulic application.	Hydraulic	58
UIP9		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for rod hydraulic application.	Hydraulic	59
UIR		NBR FKM	16	0.5	-35~100 -25~200	Seal designed with asymmetric lips. Usually used for rod hydraulic application.	Hydraulic / Pneumatic	66
UIR7		NBR HNBR	16	0.5	-35~100 -35~125	The G type design at inside diameter can reduce leakage, friction and dirt ingress. Usually used for power steering system.	Hydraulic	62
UIR21		NBR EPDM	10	0.5	-35~100 -40~150	Seal designed with asymmetric lips. The secondary edge can reduce leakage, friction and dirt ingress. Usually used for rod hydraulic application.	Hydraulic	63

SELECTION OF SEALS - ROD SEAL









Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
UIR-PL		PTFE+NBR PTFE+FKM	16	1	-35~100 -25~200	Seal designed with asymmetric lip with back-up ring. Usually used for rod hydraulic application.	Hydraulic	64
UIB2		PU+PA	50	1	-40~100	Seal designed with asymmetric lip with back-up ring. Usually used for rod higher pressure hydraulic application.	Hydraulic	65
UIB3		PU+PA	50	1	-40~100	Seal designed with asymmetric lip with back-up ring. Usually used for rod higher pressure hydraulic application.	Hydraulic	66
UIBR		NBR HNBR	20	1	-35~100 -35~125	Seal designed with asymmetric lip with back-up ring. Usually used for rod higher pressure hydraulic application.	Hydraulic	67
UIB1R		NBR	20	1	-35~100	Seal designed with asymmetric lip with back-up ring. Usually used for rod higher pressure hydraulic application.	Hydraulic	57
UNP2		PU	40	0.5	-40~100	Seal designed with asymmetric lips. The secondary edge can reduce leakage, friction, and dirt ingress. Usually used for rod hydraulic application.	Hydraulic	69
CIP		PU	30	0.5	-40~100	Seal designed with asymmetric lips. Usually used for rod hydraulic application.	Hydraulic	71
CIR		NBR FKM	10	0.5	-35~100 -25~200	Seal designed with asymmetric lips. The lip seal may easily be snapped into the grooves. The seal should be taken carefully and not be pulled over sharp edges.	Hydraulic / Pneumatic	72






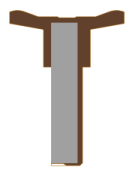




SELECTION OF SEALS - ROD SEAL

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
LIR		NBR FKM	4	0.5	-35~100 -25~200	Flange packings are single-acting non-symmetrical lip-type rod seals	Hydraulic	74
HRO		PTFE+NBR PTFE+FKM	35	1.5	-35~100 -25~200	Seal designed combine PTFE ring and O-ring. Usually used for rod hydraulic application.	Hydraulic	75








SELECTION OF SEALS - PISTON SEAL

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
UOP		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for piston hydraulic application.	Hydraulic	76
UOP4		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for piston hydraulic application.	Hydraulic	84
UOP9		PU	40	0.5	-40~100	Seal designed with asymmetric lips. Usually used for piston hydraulic application.	Hydraulic	85
UOR		NBR FKM	16	0.5	-35~100 -25~200	Seal designed with asymmetric lips. Usually used for piston hydraulic and pneumatic application.	Hydraulic / Pneumatic	86
UOR2		NBR FKM	1.2	1	-35~100 -25~200	Seal designed with asymmetric lips. Usually used for piston pneumatic application.	Pneumatic	89
UOR6		NBR	1.2	1	-35~100	Seal designed with asymmetric lips. Usually used for piston pneumatic application.	Pneumatic	90
UOR9		NBR FKM	10	0.5	-35~100 -25~200	Seal designed with asymmetric lips. Usually used for pneumatic and hydraulic piston application.	Hydraulic/ Pneumatic	91
UOB		PU+PA	50	0.5	-40~100	Seal designed with asymmetric lip with back-up ring. Usually used for high pressure piston hydraulic application.	Hydraulic	92


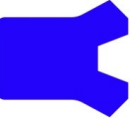






SELECTION OF SEALS - PISTON SEAL

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
COP		PU	30	0.5	-40~100	Seal designed with asymmetric lips. Usually used for piston hydraulic application.	Hydraulic	93
COR		NBR FKM	10	0.5	-35~100 -25~200	Seal designed with asymmetric lips. Usually used for piston hydraulic and pneumatic application.	Hydraulic / Pneumatic	94
PD		NBR HNBR	1	1	-35~100 -35~125	Seal designed with asymmetric lips. Usually used for piston pneumatic application.	Pneumatic	95
PDV		NBR FKM	1.2	1	-40~100 -25~200	Seal designed with a case body and rubber lips. Usually used for larger pressure condition than standard seal.	Pneumatic	96
PDV3		NBR	1.2	1	-35~100	Seal designed with asymmetric lips. Usually used for piston pneumatic application.	Pneumatic	97
PDC		NBR FKM	6	0.5	-35~100 -25~200	Seal designed with a case body, spring and rubber lip. Seals feature is stable for high pressure and slower speed.	Hydraulic	98
PDH		NBR FKM	6	0.5	-35~100 -25~200	Seal designed with a case body, spring and rubber lip. Seals feature is stable for high pressure and slower speed.	Hydraulic	99
PSV		NBR FKM	1.2	1	-40~100 -25~200	Seal designed with a case body and rubber lips. Usually used for larger pressure condition than standard seal.	Pneumatic	100

SELECTION OF SEALS - PISTON SEAL



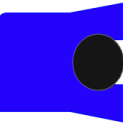
Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
PSV2		NBR FKM	1.2	1	-35~100 -25~200	Seal designed with a case body and rubber lips. Usually used for larger pressure condition than standard seal.	Pneumatic	101
PSC		NBR FKM	6	0.5	-40~100 -25~200	Seal designed with a case body, spring and rubber lip. Seals feature is stable for high pressure and slower speed.	Hydraulic	102
HOD		PTFE+ NBR+PA	50	1.5	-35~100	Seal designed combine with PTFE ring, rubber ring and both side back-up rings. Usually used for higher pressure piston hydraulic application.	Hydraulic	103
HPS		PTFE+NBR PTFE+FKM	35	1.5	-35~100 -25~200	Seal designed combine with PTFE ring and square ring. Usually used for piston hydraulic application.	Hydraulic	104
HPS2		PU+NBR	35	0.5	-35~100	Seal designed combine with PU ring and square ring. Usually used for piston hydraulic application.	Hydraulic	105
HPO		PTFE+NBR PTFE+FKM	35	1.5	-35~100 -25~200	Seal designed combine with PTFE ring and O-ring. Usually used for piston hydraulic application.	Hydraulic	106
DRW		NBR	16	0.5	-35~100	Seal designed with asymmetric lips. Usually used for piston pneumatic application.	Pneumatic	107

SELECTION OF SEALS - SYMMETRIC SEAL FOR ROD AND PISTON








Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
UNP		PU	30	0.5	-40~100	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic	108
UNP1		PU	40	0.5	-40~100	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic	130
UNR		NBR FKM	16	0.5	-35~100 -25~200	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic / Pneumatic	133
UNR1		NBR	16	0.5	-35~100	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic	140
CNP		PU	20	0.5	-40~100	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic	141
CNR		NBR FKM	10	0.5	-35~100 -25~200	Seal designed with symmetric lips can be used for piston and rod application.	Hydraulic / Pneumatic	142
HB		U-Packing: PU O-Ring:NBR	35	0.5	-30~100	A loaded U-packing with a fitted O-ring ,and the O-ring provides extreme loads for effective sealing at low or zero pressure.	Hydraulic	143
HBX		U-Packing: PU O-Ring:NBR	35	0.5	-30~100	A loaded U-packing with a fitted X-ring ,and the X-Ring under the U-packing provides positive wiping for effective sealing at low or zero pressure.	Hydraulic	150





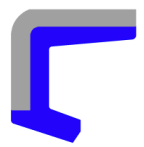




SELECTION OF SEALS - SYMMETRIC SEAL FOR ROD AND PISTON

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
HS		U-Packing: PU O-Ring:NBR	35	0.5	-30~100	A loaded U-packing with a fitted O-ring ,and the O-ring provides extreme loads for effective sealing at low or zero pressure.	Hydraulic	151
HSX		U-Packing: PU O-Ring:NBR	35	0.5	-30~100	A loaded U-packing with a fitted X-ring ,and the X-Ring under the U-packing provides positive wiping for effective sealing at low or zero pressure.	Hydraulic	155
HD		U-Packing: PU O-Ring:NBR	35	0.5	-30~100	A loaded U-packing with a fitted O-ring ,and the O-ring provides extreme loads for effective sealing at low or zero pressure.	Hydraulic	156

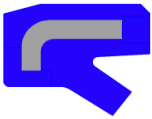






SELECTION OF SEALS - WIPER SEALS

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WP1		PU	-	1	-40~100	Popular dust seals. Used for heavy duty application.	Hydraulic	158
WP2		PU	-	1	-40~100	Popular dust seals.	Hydraulic	162
WP3		PU	-	1	-40~100	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic	164
WP4		PU	-	1	-40~100	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic	171
WP5		PU	-	1	-40~100	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic	173
WP6		PU	-	1	-40~100	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic	177
WP7		PU	-	1	-40~100	Popular dust seals. Add the steel case skeleton. Used for heavy duty application.	Hydraulic	178






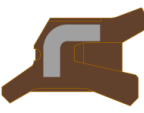

SELECTION OF SEALS - WIPER SEALS

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WP8		PU	-	1	-40~100	Popular dust seals. Add an indentation for special application.	Hydraulic	179
WP10		PU	-	1	-40~100	Popular dust seals. Add an indentation for special application.	Hydraulic	180
WP11		PU	-	1	-40~100	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic	181
WP12		NBR FKM	-	1	-35~100 -25~200	Popular dust seals.	Hydraulic / Pneumatic	184
WP13		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case skeleton. Used for heavy duty application.	Hydraulic / Pneumatic	187
WP14		NBR FKM	-	1	-35~100 -25~200	Popular dust seals.	Hydraulic / Pneumatic	188
WP15		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add an indentation for special application.	Hydraulic / Pneumatic	190






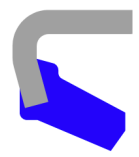

SELECTION OF SEALS - WIPER SEALS

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WP16		PU	-	1	-40~100	Popular dust seals. Add the steel case skeleton. Used for heavy duty application.	Hydraulic	191
WP17		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add an indentation for special application.	Hydraulic / Pneumatic	192
WP18		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add an indentation for special application.	Hydraulic / Pneumatic	193
WP19		NBR FKM	-	1	-35~100 -25~200	Popular dust seals.	Hydraulic / Pneumatic	194
WP21		PU	-	1	-40~100	Popular dust seals. Used for heavy duty application.	Hydraulic	195
WP22		PU	-	1	-40~100	Popular dust seals. Add an indentation for special application. Used for heavy duty application.	Hydraulic	196
WP24		NBR FKM	-	1	-35~100 -25~200	Popular dust seals.	Hydraulic / Pneumatic	197







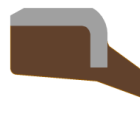
SELECTION OF SEALS - WIPER SEALS

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WP32		PU	-	1	-40~100	Popular dust seals. Add an indentation for special application. Used for heavy duty application.	Hydraulic	198
WP33		NBR HNBR	-	1	-35~100 -35~125	Seal designed without metal case. Used for pneumatic application.	Pneumatic	199
WP34		PU	-	1	-40~100	Seal designed with space-saving construction. Used for pneumatic dust seal.	Pneumatic	200
WP38		PU	-	1	-40~100	Add the metal case for open groove assembly. Used for agriculture machinery or hydraulic / pneumatic application.	Hydraulic / Pneumatic	201
WP39		NBR	-	1	-35~100	Popular dust seals.	Hydraulic / Pneumatic	202
WP42		NBR FKM	-	1	-35~100 -25~200	Popular dust seals.	Hydraulic / Pneumatic	203
WP46		NBR	-	1	-35~100	Popular dust seals.	Hydraulic / Pneumatic	204



SELECTION OF SEALS - WIPER SEALS








Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WP52		PU	-	1	-40~100	Seal designed without metal case for closed groove assembly. Used for hydraulic application.	Hydraulic	205
WP54		NBR	-	1	-35~100	Seal designed without metal case for closed groove assembly. Used for pneumatic application.	Pneumatic	206
WP58		PU	-	1	-40~100	Add the metal case for open groove assembly. Used for hydraulic and pneumatic application.	Hydraulic/ Pneumatic	207
WP59		PU	-	1	-40~100	Seal designed without metal case. Add an indentation for special application. Used for hydraulic and pneumatic application.	Hydraulic/ Pneumatic	208
WPB		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic / Pneumatic	209
WPB2		PU	-	1	-40~100	Add the metal case for open groove assembly. Used for hydraulic application.	Hydraulic	211
WPB3		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic / Pneumatic	212

SELECTION OF SEALS - WIPER SEALS



Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WPC		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case skeleton. Used for heavy duty application.	Hydraulic / Pneumatic	214
WPK		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic / Pneumatic	215
WPK1		NBR	-	1	-35~100	Popular dust seals.	Hydraulic	217
WPK3		NBR	-	1	-35~100	Popular dust seals.	Hydraulic	218
WPM		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic / Pneumatic	219
WPR		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case skeleton. Used for heavy duty application.	Hydraulic / Pneumatic	226
WPV		NBR FKM	-	1	-35~100 -25~200	Popular dust seals. Add the steel case clad. Used for heavy duty application.	Hydraulic / Pneumatic	229

SELECTION OF SEALS - WIPER SEALS

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
WPZ		NBR	-	1	-35~100	Seal designed with an additional inner rubber lining particularly fit for protecting the metal case from erosive fluid.	Pneumatic	230
MES		NBR FKM	-	1	-35~100	Seal designed with metal case and copper. Used for hydraulic and pneumatic application.	Hydraulic/ Pneumatic	231

Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
O-Ring		NBR FKM	10	-	-35~100 -25~200	A popular round shape makes it be the most widely used ring in static.	Hydraulic / Pneumatic	234
X-Ring		NBR FKM	10	-	-35~100 -25~200	The special four-lipped design makes it better than O- ring in some aspects, especially less prone to twist in dynamic applications.	Hydraulic / Pneumatic	276
□-Ring		NBR FKM	10	-	-35~100 -25~200	The customized □-shape design can meet special needs with a better groove support.	Hydraulic / Pneumatic	277
D-Ring		NBR FKM	10	-	-35~100 -25~200	The customized D-shape design can meet special needs with a better groove support.	Hydraulic / Pneumatic	282
H-Ring		NBR FKM	-	-	-35~100 -25~200	The customized H-shape design can meet special needs with a better groove support.	Hydraulic / Pneumatic	284
U-Ring		NBR FKM	10	-	-35~100 -25~200	The customized U-shape design can meet special needs with a better groove support.	Hydraulic / Pneumatic	285
SQ-ring		NBR FKM	10	-	-35~100 -25~200	The simple square cross section makes it a good replacement for O-ring in high pressure static applications. Low cost is another factor why it is used.	Hydraulic / Pneumatic	286



Type	Cross Section	Standard Material Specification				Characteristics	Application	Page
		Material	Service range					
			Pressure (MPa)	Max. Speed (m/s)	Temp. (°C)			
PU-Ring10		PU	30	-	-40~100	The customized groove design can meet special needs with a better groove support.	Hydraulic	287
Ring16		NBR FKM	10	-	-35~100 -25~200	The customized shape design can meet special needs with a better groove support.	Hydraulic / Pneumatic	288

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
4	7	4.2	U2686
4	7.4	3.5/3	U8701
4	7.4	3.5	U9489
4	9	3.5	U3984
4	12	6	U9064
6	10	3.5/3	U8702
6	10	3.5	U9490
6	12	5.3	U6824
6	13	5	U0656
6	14	5.7	U1436
8	14	4	U2597
8	14	5	U3540
8	16	4.5	U1743
8	16	5.7	U0122
8	16	8	U1526
8	18	8	U6880
9	14.5	5.7	U7006
9.5	14	2.5	U2007
9.9	20	4.5	U7643
10	16	4.5	U1437
10	16.8	4.5	U1745
10	17	4.5	U1371
10	18	5.7	U0876
10	20	4.5	U1746
10	20	6	U1737
10	20	7.2	U1132
10	20	8	U6825
10	20	10	U9119

Shaft diam.	Bore diam.	Width diam	Drawing no.
10	21	4.5	U1736
11.5	16	3.6	U8226
12	17	3.5	U7395
12	18	8	U9120
12	19	5.5	U7200
12	20	5.7	U0180
12	22	7.2	U1528
12	22	8	U1524
12.5	20	3	U1734
12.5	21	4.6	U1735
13	19	4	U4062
14	18.3	3	U7393
14	21	5	U4618
14	22	5.7	A0628
14	22	6	U9078
14	24	7.2	U1525
14	24	8	U1527
15	23	5.7	U0963
15	25	8	U1438
16	20.6	3.3	U6889
16	22	5	U0113
16	22	5.5	U6827
16	23	4.5	U8227
16	24	5.7	A0617
16	24	6.2	U6826
16	26	7.2	U1439
16	26	8	U3280
16	26	9	U1440

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
18	24	4.7	U6834
18	24	5	U3447
18	26	5	U5761
18	26	5.7	U1191
18	26	8	U1316
18	28	7.2	U0096
18	28	8	U0002
19	27	6	U5871
20	26	5	U1643
20	27	6	U0134
20	28	5.7	U0011
20	28	6.2	U0114
20	28	6.6	U8441
20	28	7.2	U6833
20	30	5	U9085
20	30	5.7	U7550
20	30	7	U8553
20	30	7.2	U1049
20	30	8	A0198
20	30	10	U1195
20	32	7.5	U6914
20	35	10	U6913
22	28	4	U9046
22	30	5.7	U0099
22	30	7	U1529
22	30	8	U1235
22	32	5	U9045
22	32	7.2	U0497

Shaft diam.	Bore diam.	Width diam	Drawing no.
22	32	8	U0901
22	32	9	U6912
22	32	10	U6832
22.22	28.57	4.76	U8378
22.4	30	5	U00213
23	31	5	U8248
24	32	5	U9146
24	32	6	U9113
24	34	7.2	U6831
24	34	8.5	U6830
25	32	5.7	U5668
25	32	6	U5567
25	33	5.7	A0598
25	33	6.2	U2520
25	33	7.2	A0608
25	33	8	U1835
25	33	10	U1193
25	35	5	U9048
25	35	7.2	U0787
25	35	8	U0902
25	35	10	U0417
25	38	9	U6854
25	40	10	U4560
28	36	5.5	U00248
28	36	5.7	U1236
28	38	7.2	U0135
28	38	8	U0875
28	38	10	U6853

E1

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
28	39	8	U00236
28	40	8.5	U6852
28	40	10	U1836
28	43	11.5	U1196
29	35	4.8	U6851
30	37	5	U9047
30	37	6	U9077
30	38	5/7	U6999
30	38	5.7	U0012
30	38	8	A0614
30	40	5.7	U5719
30	40	6	U9076
30	40	7	U0119
30	40	7.2	U1031
30	40	8	U9084
30	40	9.5	U5720
30	40	10	U0100
30	42	8.5	U8077
30	43	9	U6926
30	43	10	U00060
30	45	8	U6570
30	45	10	U4562
30.95	45.24	10.31	U2540
32	40	5.5	U5758
32	40	5.7	U0101
32	40	6	U7379
32	40	8	U0120
32	42	7	U1837

Shaft diam.	Bore diam.	Width diam	Drawing no.
32	42	7.2	U0019
32	42	7.3	
32	42	8	U2542
32	42	10	U0102
32	42.53	8.5	U6192
32	45	9.5	U6199
32	45	10	U2017
32	47	10	A0659
32	48	10	U7375
33	43	10	U6222
35	42	6	U9097
35	42	7	U9114
35	43	5.7	U0013
35	43	8	U0442
35	45	6	U6221
35	45	7	U3424
35	45	7.2	U0133
35	45	8	U9157
35	45	10	U0026
35	45	13	U6226
35	46	8	U6193
35	46	9	U6194
35	47	8.5	U6225
35	50	10	U0005
35	54	8	U9144
35	55	12	U5991
36	44	5.7	U0095
36	44	8	U6224

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
36	46	7.2	U0094
36	46	10	U1237
36	48	7.5	U6223
36	48	8	U2967
36	51	10	U6227
36	51	11.5	U1209
37	45	5.7	U6201
37	47	5.7	U1778
37	47	10	U0708
38	44.5	4.8	U6195
38	45	5	U6200
38	45	6	U00062
38	45	6.2	U6207
38	45	8	U9156
38	51	10	U9122
40	48	5.7	U0014
40	48	8	U1846
40	49.52	10	U6202
40	50	6	U6582
40	50	7.2	U0093
40	50	8	U1847
40	50	9	U6206
40	50	10	A0647
40	50	13.5	U6214
40	52	8	U2698
40	55	7.2	U0121
40	55	9	U6315
40	55	10	U0459

Shaft diam.	Bore diam.	Width diam	Drawing no.
40	55	11.5	U0087
40	60	10	U9118
40	60	12	U6213
42	50	5.7	U7174
42	50	6	U9145
42	52	7	U7245
42	62	10.5	U6215
42	62	12	U4841
42	62	12.5	U6212
43	52.5	7.6	U7751
44.40	54.03	6.53	U7090
45	53	5.7	U2102
45	53	8	U1185
45	53	10	U1148
45	53	12	U0874
45	55	5.7	U1848
45	55	5.8	U1956
45	55	6	U7094
45	55	6.2	U5731
45	55	7.2	U0015
45	55	7.3	U3201
45	55	10	A0595
45	56	7	U9092
45	57.7	9.5	U3032
45	58	9	U6129
45	60	10	U0174
45	60	11.5	U0954
45	65	10	U0408

E1

NAK STANDARD

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APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
45	65	12	U3522
45	65	13.5	U6415
46	56	7.5	U6216
47	56	9	U3809
48	60	8	U9067
50	60	6	U7368
50	60	6.4	U5732
50	60	7.2	U0016
50	60	8	U5778
50	60	10	U0020
50	60	12	U1530
50	62	8	U5990
50	62.7	10	U6220
50	65	9	U9143
50	65	10	U0115
50	65	11.4	U3195
50	65	11.5	U0086
50	65	12	U9061
50	68	9	U6203
50	68	10	U9099
50	70	10	U6219
50	70	12	U1318
50.80	63.50	9.52	U4507
51	61.4	6.4	U6935
51	66	14	U1787
52	62	10	U0955
53.97	66.67	9.52	U8086
55	63	8	U0088

Shaft diam.	Bore diam.	Width diam	Drawing no.
55	63	12	U2298
55	65	5	U9112
55	65	6	U7361
55	65	7.2	U0537
55	65	7.3	U3209
55	65	10	U0717
55	65	12	U1581
55	65	13.5	U6218
55	67	10	U0282
55	68	10.5	U6130
55	70	10	U0116
55	70	10.6	U0043
55	70	12	U2646
55	75	12	U6249
55	75	13.5	U6284
56	66	6	U5290
56	66	8	U9169
56	66	10	U3065
56	71	10	U1213
56	71	11.5	U2978
56	76	12	U6283
56	76	13.5	U6286
56	76	15	U6285
57.15	69.85	9.52	U0822
58	70.5	10	U8934
58	75	10	U9062
60	68	8	U4819
60	68	11.5	U0401

NAK STANDARD

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APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
60	70	6	U9121
60	70	7.2	U0017
60	70	10	U4567
60	70	11.8	U1153
60	70	12	U1197
60	70	13	U0786
60	72	8	U6304
60	72	9	U6303
60	72	10	U9063
60	73	10	U7367
60	75	10	U4528
60	75	11.5	U0089
60	75	12	U1198
60	77	11	U6204
60	80	12	U0028
60	80	12.3	U00173
60	80	13.5	U6302
62	74	13	U6888
63	73	10	U0878
63	73	12	U0090
63	75	8.7	U0461
63	78	10	U0117
63	78	11.5	U1212
63	78	12	U6247
63	83	12	U2616
63	83	13.5	U6246
63	83	15	U4546
65	73	11.5	U0399

Shaft diam.	Bore diam.	Width diam	Drawing no.
65	75	10	U1211
65	75	12	U0091
65	75	13.5	U6245
65	77	9	U6208
65	78	10	U0186
65	80	10	U6242
65	80	12	U3067
65	85	12	U3832
65	85	12.5	U00174
65	85	13.5	U6241
69.85	82.55	9.52	U0824
70	80	6	U7036
70	80	7	U6619
70	80	7.2	U2898
70	80	10	U3302
70	80	12	U0021
70	82	9	U0432
70	83	10	U6185
70	85	9	U6838
70	85	10	U0092
70	85	10.6	U0044
70	85	11.5	U1183
70	85	12	U3206
70	88	13.5	U4066
70	90	12	U1849
70	90	15	U3550
73	82.5	7.5	U6205
75	85	6	U7366

E1

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
75	85	7.2	U1210
75	85	10	U9091
75	85	12	U3157
75	87	8.6	U1952
75	88	10	U00185
75	90	9	U6551
75	90	9.4	U00178
75	90	10	U2280
75	90	12	U0473
75	95	12	U6270
75	95	13.5	U6269
76	84	7.5	U6887
76	91	14	U1788
76.2	92.07	9.52	U6624
76.2	95.25	9.52	U6622
76.5	89.5	10.5	U00175
80	90	6	U9155
80	90	7.2	U0271
80	90	8	U7360
80	90	10.5	U1184
80	90	12	U0194
80	90	14	U6288
80	92	8.6	U2128
80	92	10	U9692
80	93	10	U0187
80	95	9	U6552
80	95	10	U2699
80	95	11.5	U1200

Shaft diam.	Bore diam.	Width diam	Drawing no.
80	95	12	U0097
80	100	12	U0031
80	100	13.5	U0897
80	100	15	U6287
82	93.5	6.4	U0048
82.55	95.25	9.52	U0823
82.55	98.42	7.93	U6635
85	94	14	U9224
85	95	7.2	U6925
85	95	12	U0198
85	97	8.7	U3212
85	100	9	U6547
85	100	10	U7359
85	100	11	U6924
85	100	11.5	U1851
85	100	12	U2710
85	105	12	U6898
85	105	13.5	U6886
87	95	11.5	U0400
90	100	10	U1839
90	100	11.5	U6923
90	100	12	U0587
90	102	9	U1957
90	102	14	U7854
90	105	8.5	U1852
90	105	9	U7358
90	105	10	U0190
90	105	11.5	U0540

NAK STANDARD

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APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
90	105	12	U0189
90	110	12	U0003
90	110	13	U9781
90	110	15	U3422
90	110	17	U4068
91	99	8	U6922
93	104	10.5	U6921
95	105	10	U6906
95	105	12	U0585
95	110	9	U3092
95	110	9.5	U5721
95	110	12	U2700
95	115	12	U3111
98	112	8.5	U7262
100	110	5	U9098
100	110	12	U9066
100	110	14	U6929
100	113	13	U6928
100	115	9	U6398
100	115	10	U6936
100	115	10.5	U0866
100	115	11	U0098
100	115	12	U0193
100	120	11.5	U0041
100	120	12	U0118
100	120	13.5	U6937
100	120	15	U1840
100	125	19	U6733

Shaft diam.	Bore diam.	Width diam	Drawing no.
105	115	10	U6569
105	115	11.5	U6932
105	115	13.5	U6931
105	117	10	U4581
105	120	9.9	U5316
105	120	12	U6938
105	120	15	U5284
105	125	12	U6248
110	120	12	U3405
110	125	9	U2864
110	125	9.6	U1958
110	125	10	U9090
110	125	11	U2637
110	125	12	U0586
110	125	15	U6849
110	130	12	U3158
110	130	14.6	U6885
110	130	15	U2959
110	135	19	U6939
115	130	9	U7334
115	130	11	U3556
115	135	12	U6940
120	130	7.2	U6918
120	130	11.5	U1842
120	130	15	U5603
120	132	10.5	U6919
120	135	11.5	U6902
120	135	15	U0588

E1

NAK STANDARD

UIP

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
120	140	12	U0873
120	140	14.6	U3534
120	140	15	U1192
125	135	13.5	U6920
125	145	12	U4082
125	145	15	U0042
125	150	14	U5980
125	150	19	U6883
128	140	10	U4139
130	140	7.2	U6872
130	140	13.5	U4525
130	145	12	U3406
130	145	14	U6873
130	145	15	U7411
130	150	12	U6281
130	150	15	U1199
135	150	10	U9089
138	155	15	U7780
140	150	11.5	U5906
140	155	12	U2990
140	160	12	U0394
140	160	15	
140	165	19	U6876
141	151	14	U9855
145	157.7	9	U6882
150	160	13.5	U4081
150	170	12	U0899
150	170	13.5	U1951

Shaft diam.	Bore diam.	Width diam	Drawing no.
150	170	15	U0270
152	164	10	U4140
160	170	12	U6875
160	180	12	U6863
160	180	15	U1055
160	185	15	U1843
160	185	19	U8258
160	190	18	U6862
165	185	12	U6190
170	190	12	U6865
170	190	15	U0898
180	192	10	U4141
180	200	12	U3542
180	200	15	U0289
180	200	19	U6857
180	205	15	U4547
180	205	18.2	U7855
185	195	13.5	U8703
190	210	12.5	U6860
190	210	15	U1207
200	220	12	U6859
200	220	13	
200	220	15	U6848
200	225	15	U6858
200	225	16	U6191
200	225	19	U6847
200	230	18	U8272
210	230	15	U6856

NAK STANDARD

UIP

**APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC / INCH**



Shaft diam.	Bore diam.	Width diam	Drawing no.
220	240	12	U7816
220	240	15	U4895
230	250	12	U7817

Shaft diam.	Bore diam.	Width diam	Drawing no.
6.500	7.500	0.750	U5682

E1



E1

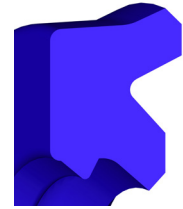
Shaft diam.	Bore diam.	Width diam	Drawing no.
6	13	5	U2941
6	14	5.5	U0949
6	14	5.7	U1441
8	16	5.5	U0950
8	16	5.7	U1442
8	16	8	U2938
8	18	8	U1443
9	19	6	U9710
9.52	19.05	7.93	U4346
10	16	4	U9714
10	16	4.5	U0952
10	16	6	U9718
10	18	5.5	U0951
10	18	5.7	U1598
10	18	8	U3224
10	20	4.5	U2939
10	20	7	U1444
10	20	8	U1445
10	22	7	U3225
11	18	5	U9711
12	18	7	U9697
12	19	6	U9708
12	20	5.5	U1597
12	20	5.7	U3531
12	20	8	U1446
12	22	5.5	U7648
12	22	6	U9704
12	22	7.3	

Shaft diam.	Bore diam.	Width diam	Drawing no.
12	22	8	U1447
12.70	19.05	4.76	U4112
14	19	4	U8931
14	20	6	U9717
14	21	5.1	U4696
14	22	5.5	U1071
14	22	5.7	U1594
14	24	7.3	U1593
14	24	8	U1448
14.28	20.63	4.76	U4118
15	20	4.5	U4361
15	25	8	U1449
15	25	10	U3226
15	26	7.5	U6179
15.4	25.5	6.5	U6132
15.87	22.22	4.76	U4113
15.87	25.40	7.14	U4347
16	22	5	U4416
16	24	5	U7584
16	24	5.5	U1072
16	24	5.8	U1592
16	26	7	U1591
16	26	7.3	U1590
16	26	8	U1638
16	28	8	U1518
16	29	5	U9713
17	23	4	U5199
17	27	5	U8942

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
17.46	23.81	4.76	U4114
18	25	5	U4050
18	26	5.5	U1588
18	26	6	U2903
18	26	6.3	U4051
18	26	6.5	U6133
18	26	8.5	U6134
18	28	7	U3227
18	28	7.3	U1589
18	28	8	U1450
19	27	5	U8939
19.05	25.4	4.76	U4115
19.05	25.40	6.35	U4103
19.05	28.57	7.93	U4348
19.5	27.5	8.5	U6135
20	25	4	U8930
20	26	4.8	U4052
20	28	5.5	U0549
20	28	5.7	U6959
20	30	6	U7641
20	30	7	U1622
20	30	7.3	U5872
20	30	8	U3228
20	30	10	U5278
20	35	10	U1073
20	38	7	U9709
20.63	26.98	4.76	U4104
20.63	26.98	6.35	U4105

Shaft diam.	Bore diam.	Width diam	Drawing no.
22	28	4	U8929
22	28	8	U3229
22	30	5	U8940
22	30	5.7	U2975
22	30	6	U1074
22	32	6	U6172
22	32	7.3	U1603
22	32	8	U3230
22	34	6	U9696
22	35	8	U3231
22	35	10	U1604
22	38	6	U9720
22	40	8	U9721
22.22	28.57	4.76	U4106
22.22	28.57	6.35	U4107
22.23	36	9.53	U1256
23	35	10	U1075
25	31	4.5	U4801
25	31	6	U3724
25	32	5	U9695
25	32	10	U1605
25	33	4.8	U6125
25	33	5.5	U1076
25	33	5.7	U4382
25	33	6.5	U0727
25	33	6.8	U4383
25	33	7	U3233
25	33	7.3	U6186

E1

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
25	33	10	U4054
25	34	6.5	U4628
25	35	7	U1606
25	35	7.3	U1607
25	35	8	U1615
25	35	10	U1616
25	38	10	U3234
25	40	10	U1077
25	43	6.5	U3659
25	45	10	U3235
25	45	12	U0904
25.40	31.75	4.76	U4108
25.4	31.75	6.35	U4109
25.40	34.92	6.35	U4349
25.40	34.92	7.93	U4350
25.4	38.1	9.52	U4199
26	36	10	U7130
26	38	8	U9715
26.98	33.34	4.76	U4110
27	38	7	U9707
28	35.5	5	U4820
28	36	5.7	U00069
28	36	7	U2278
28	36	7.3	U3572
28	36	8	U00129
28	37	6	U9703
28	38	7.3	U1617
28	38	8	U1618

Shaft diam.	Bore diam.	Width diam	Drawing no.
28	38	10	U1619
28	43	11.5	U1078
28.57	34.92	4.76	U4111
28.57	34.92	6.35	U4116
28.57	38.10	7.93	U4351
28.57	41.27	6.35	U4675
30	38	4.8	U6127
30	38	5.7	U5239
30	38	6	U5279
30	38	6.3	U4384
30	38	10	U9706
30	40	6	U8476
30	40	6.5	U7048
30	40	7	U4385
30	40	7.3	U1216
30	40	8	U3236
30	40	10	U0565
30	45	10	U1454
30	50	12	U1079
30.16	39.68	6.35	U4352
31.75	38.1	6.35	U4097
31.75	41.27	4.76	U4680
31.75	41.27	6.35	U4353
31.75	41.27	7.93	U4354
31.75	44.45	6.35	U4674
31.75	44.45	9.52	U4274
32	40	5.5	U9702
32	40	5.8	U9301

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
32	40	6	U9716
32	40	6.7	U1455
32	40	7.2	U6018
32	40	8	U1456
32	40	10	U3238
32	41.5	7.2	U5806
32	41.5	7.9	U3283
32	41.53	7.9	U00280
32	42	7.3	U2874
32	42	10	U1457
32	45	8	U3239
32	45	10	U1080
32	47	10	U1180
32	47	11.5	U1081
34.92	41.27	6.35	U4098
34.92	44.45	4.76	U4679
34.92	44.45	7.93	U4355
34.92	47.62	9.52	U4275
35	42	6	U9701
35	43	5.7	U4429
35	43	5.8	U8092
35	43	7.2	U5994
35	45	6	U5611
35	45	7	U3472
35	45	7.3	U5560
35	45	8	U4055
35	45	10	U1458
35	50	10	U3217

Shaft diam.	Bore diam.	Width diam	Drawing no.
36	44	5.7	U5559
36	44	6.3	U4681
36	44	7.6	U00148
36	46	7	U1459
36	46	7.3	U1620
36	46	7.5	U3420
36	46	10	U1460
36	51	10	U1461
36	56	12	U3918
36.51	46.04	7.93	U4356
37	47	8	U1082
37	47	10	U5502
38	48	5.8	U6609
38	48	8	U4786
38	55	10	U1083
38	58	10	U3218
38.10	44.45	6.35	U4099
38.10	47.62	4.76	U4678
38.10	47.62	6.35	U4357
38.10	47.62	7.93	U4358
38.1	47.62	9.52	U7085
38.10	47.62	9.52	U4359
38.1	50.8	6.35	U4673
38.1	50.8	9.52	U4276
38.10	53.97	9.52	U4335
40	48	5.7	U4057
40	48	8	U3564
40	48	13.5	U9554

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UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



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Shaft diam.	Bore diam.	Width diam	Drawing no.
40	49.5	9.5	U4056
40	50	6	U8599
40	50	7	U9725
40	50	7.3	U1463
40	50	8	U6610
40	50	10	U1016
40	55	8	U6611
40	55	10	U1317
40	55	11.4	U5532
40	55	11.5	U1621
40	60	10	U3220
40	60	11.5	U5280
40	60	12	U1608
41.27	47.62	6.35	U4100
41.27	50.80	7.14	U4421
41.27	50.80	7.93	U4422
41.27	50.80	9.52	U4423
41.27	53.97	9.52	U4284
42	48	6	U4430
42	50	5.7	U6101
42	50	11.5	U6001
42	52	10	U1464
42	52.2	9	U00163
42	53	9	U6022
43	53	7.3	U8606
44.45	50.80	6.35	U4101
44.45	53.97	6.35	U4424
44.45	53.97	7.93	U4432

Shaft diam.	Bore diam.	Width diam	Drawing no.
44.45	53.97	9.52	U4433
44.45	57.15	6.35	U4672
44.45	57.15	9.52	U4285
44.45	57.15	12.7	U4286
45	53	5.6	U3561
45	53	6.3	U8269
45	53	11.5	U4039
45	55	6	U9724
45	55	7	U1466
45	55	7.3	U1609
45	55	10	U1950
45	55	11.5	U6002
45	57.7	9.5	U1610
45	60	10	U1084
45	60	11.5	U1611
45	65	10	U3242
47	56	9	U7250
47.62	57.15	9.52	U4434
47.62	60.32	9.52	U4287
48	56	11.5	U6003
48	56	12	U6004
48	60	8	U9699
48	63	10	U3276
48	68	12	U1468
50	57	10	U6021
50	58	6	U7587
50	58	10	U8155
50	58	11.5	U6006

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
50	58	13	U7059
50	60	6	U8490
50	60	7.3	U2381
50	60	8	U9712
50	60	10	U1085
50	62	10	U1208
50	62.7	9.5	U4041
50	63	10	U3243
50	65	6	U9722
50	65	9.5	U4042
50	65	10	U1470
50	65	11	U4040
50	65	11.5	U1471
50	65	12	U3244
50	65	15.5	U3539
50	70	12	U1086
50	70	14	U6007
50.80	57.15	6.35	U4102
50.80	60.32	6.35	U4435
50.8	60.32	7.93	U4436
50.8	60.32	9.52	U4360
50.80	63.50	6.35	U4676
50.8	63.5	7.93	U4288
50.8	63.5	9.52	U4289
50.8	66.67	7.93	U4670
50.80	66.67	12.7	U4336
50.8	69.85	15.87	U4300
51	66	14	U3245

Shaft diam.	Bore diam.	Width diam	Drawing no.
52	62	10	U1087
52	64	10	U7282
53.97	63.50	9.52	U4437
55	62.5	9	U6020
55	63	11.5	U6008
55	64	15	U0858
55	65	6.7	U7179
55	65	7.3	U6960
55	65	8	U9475
55	65	9	U6009
55	65	10	U1050
55	65	12	U0652
55	68	10	U3926
55	70	9	U5227
55	70	10	U1088
55	70	12	U1472
55	75	12	U1089
56	66	7.3	U6961
56	66	10	U1090
56	71	10	U3837
56	71	11.4	U6957
56	71	11.5	U2811
56	71	12.5	U6544
56	76	12	U0979
57	66	13	U7681
57	70	10	U3929
57.1	66.7	10	U6079
57.1	69.8	10	U6091

E1



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Shaft diam.	Bore diam.	Width diam	Drawing no.
57.15	66.67	9.52	U4446
57.15	69.85	9.52	U4277
58	68	11.5	U6019
60	68	6.3	U8268
60	68	11.5	U4053
60	68	13	U3658
60	68	13.5	U4156
60	70	7.3	U00070
60	70	7.5	U4669
60	70	10	U1091
60	70	11.5	U1612
60	70	12	U0653
60	72	10	U1168
60	73	10	U3925
60	75	9	U5228
60	75	10	U0980
60	75	11.4	U5354
60	75	11.5	U6024
60	75	12	U2995
60	75	15.5	U3808
60	80	10	U4024
60	80	12	U1092
60.32	69.85	9.52	U4438
60.32	73.02	7.54	U2546
60.32	73.02	9.52	U4290
63	73	6	U5229
63	73	12	U1243
63	75	10	U7017

Shaft diam.	Bore diam.	Width diam	Drawing no.
63	76	10	U9723
63	78	10	U3791
63	78	11.4	U6956
63	78	11.5	U1613
63	78	12	U9772
63	83	12	U2891
63	83	13.5	U0286
63.50	73.02	7.93	U4401
63.50	73.02	9.52	U4402
63.5	76.2	6.35	U4677
63.5	76.2	9.52	U3921
63.5	76.2	10	U6088
63.50	79.37	12.7	U4337
63.5	82.55	15.87	U4301
64	72	10	U8157
65	73	11.5	U6023
65	73	13	U3657
65	75	7	U0450
65	75	10	U6051
65	75	11.5	U6045
65	75	12	U2059
65	77.7	9.5	U4043
65	78	10	U3557
65	80	9	U5230
65	80	10	U1479
65	80	12	U1480
65	85	10	U3248
65	85	12	U1093

NAK STANDARD

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APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
66	80	10.5	U6057
66.67	76.20	9.52	U4403
66.67	79.37	12.7	U4291
66.67	82.55	15.87	U4338
67	75	11.5	U6046
67	75	13	U7753
68	78	12	U7352
68	80	10	U6620
69.8	82.5	10	U6058
69.85	79.37	9.52	U4269
69.85	82.55	9.52	U7546
69.85	85.72	9.52	U4339
69.85	85.72	12.7	U4340
69.85	85.73	12.7	U1493
69.85	88.9	15.87	U4302
70	77.5	9	U6059
70	78	11.5	U6047
70	78	12	U1825
70	79	13	U6060
70	79	15	U0701
70	80	8	U5669
70	80	10	U3250
70	80	11.5	U6048
70	80	12	U1094
70	83	10	U5037
70	85	10	U3444
70	85	11.4	U6955
70	85	11.5	U2448

Shaft diam.	Bore diam.	Width diam	Drawing no.
70	85	12	U0536
70	90	10	U4025
70	90	12	U1095
70	90	15	U1096
70	90	18	U3252
73	82.4	7.3	U6080
73.02	82.55	9.52	U4404
75	83	6.3	U8267
75	83	11.5	U3933
75	85	8.7	U00237
75	85	10	U3253
75	85	10.5	U6049
75	85	11.5	U1599
75	85	12	U0623
75	86	10	U8243
75	87	12.5	U8170
75	90	9	U5554
75	90	10	U1481
75	90	12	U1097
75	95	12	U5038
76	84	7.5	U8357
76.20	85.72	9.52	U4405
76.2	88.90	9.52	U4292
76.2	88.9	10	U6094
76.2	88.9	15.87	U4293
76.2	92.07	12.7	U4329
76.2	95.25	12.7	U5893
76.2	95.25	15.87	U4303

E1

UIP2

APPLICATION : ROD
 MATERIAL : PU
 UNIT: METRIC



E1

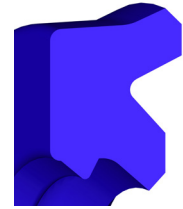
Shaft diam.	Bore diam.	Width diam	Drawing no.
77	86	14	U6090
77	87	12	U8382
78	86	10	U8158
78	86	11.5	U1482
78	86	13.5	U4157
78	88	12	U6053
78	88	14	U7483
78	88	15	U8358
78	90	12.5	U6093
79.37	88.90	15.87	U4406
79.4	88.9	10	U6089
80	88	8	U9597
80	88	11.5	U6052
80	90	6	U5238
80	90	11.5	U8061
80	90	12	U1483
80	91	13.5	U9553
80	93	10	U5237
80	95	9	U5236
80	95	10	U1484
80	95	11.4	U6954
80	95	11.5	U2892
80	95	12	U1098
80	100	10	U3255
80	100	12	U1485
80	100	15	U1099
82.5	97.5	12.5	U6152
82.55	92.07	9.52	U4407

Shaft diam.	Bore diam.	Width diam	Drawing no.
82.55	92.07	14.28	U4408
82.55	95.3	9.52	U3840
82.55	98.42	12.7	U4330
85	92.5	9	U6173
85	93	10	U5022
85	93	11.5	U4044
85	94	15	U0702
85	95	10	U9598
85	95	12	U9739
85	95	12.5	U6543
85	100	9	U5488
85	100	10	U5240
85	100	11.4	U5536
85	100	11.5	U6153
85	100	12	U1126
85	105	12	U1100
86	98	10	U6625
87	95	13	U3656
87	96	13	U7674
88.90	98.42	9.52	U4409
88.9	101.6	7.93	U4294
88.9	101.6	9.52	U4193
88.9	101.6	10	U6174
88.90	104.77	12.7	U4315
88.9	107.95	15.87	U4304
88.90	107.95	15.9	U1492
90	98	11.5	U6154
90	98	12	U1826

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
90	100	6	U7586
90	100	7.5	U6155
90	100	9	U6156
90	100	10	U4096
90	100	11.5	U1486
90	100	12	U3213
90	102	12	U7062
90	105	10	U5039
90	105	11.5	U2737
90	105	12	U1101
90	110	10	U4027
90	110	12	U1102
91	99	7.5	U8359
92.07	104.77	9.52	U4194
93	101	10	U8159
93	101	11.5	U6120
93	105	10	U8424
95	103	11.5	U6121
95	105	9	U6136
95	105	11.5	U8060
95	105	12	U1103
95	107	10	U8233
95	107	12.5	U8171
95	110	9	U5241
95	110	10	U5242
95	115	12	U1054
95.25	104.77	9.52	U4410
95.25	107.95	9.52	U4195

Shaft diam.	Bore diam.	Width diam	Drawing no.
95.25	107.95	12.7	U4196
95.25	107.95	14.28	U4197
96	104	12	U7520
97	105	11.5	U6150
97	105	13.5	U4158
97	106	14	U6175
97	107	15	U7482
99	109	12.5	U6141
99	109	14	U6990
99	109	15	U8353
100	108	11.5	U6142
100	108	12	U3072
100	109	15	U0703
100	110	10.5	U6177
100	110	11.30	U0622
100	110	11.5	U6143
100	110	14	U4091
100	112	14	U7233
100	115	9	U5252
100	115	10	U5255
100	115	11	U9478
100	115	11.4	U5515
100	115	12	U1059
100	120	12	U1060
100	120	14.5	U1487
100	120	14.6	U6958
100	120	15	U1061
100	125	15	U1062

E1



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Shaft diam.	Bore diam.	Width diam	Drawing no.
101.6	111.12	9.52	U4198
101.6	114.3	7.93	U4278
101.6	114.3	9.52	U4279
101.6	114.3	14.28	U4280
101.6	117.47	9.52	U4331
101.60	117.47	12.7	U4332
101.6	120.65	12.7	U4295
101.6	120.65	15.87	U4296
105	113	11.5	U6144
105	113	13.5	U6145
105	115	11.5	U4341
105	120	9.9	U1488
105	125	10	U3215
105	125	15	U3216
106	118	10	U6626
107	115	7.5	U8352
107.95	127	15.87	U4297
110	118	10	U8160
110	118	11.5	U6146
110	120	11.5	U8164
110	120	12	U1063
110	125	9	U5253
110	125	12	U5281
110	125	15	U1064
110	130	10	U5042
110	130	12	U1065
110	130	13	U5254
110	130	14.5	U2575

Shaft diam.	Bore diam.	Width diam	Drawing no.
110	130	15	U1066
110	135	15	U4045
112	121	13	U7668
112	122	10	U00271
112	122	10.5	U6158
112	125	15	U7063
113	123	9	U6159
113	125	10	U8426
114.3	127	9.52	U4281
114.3	127	12.7	U5894
114.3	130.17	12.7	U4333
114.30	130.17	15.87	U4334
114.3	133.35	15.87	U4298
115	123	11.5	U6182
115	124	15	U0704
115	125	12	U1067
115	125	14	U6160
115	130	10.5	U6161
115	130	15	U3257
115	140	15	U1068
116	126	11.5	U8063
116	126	15	U7481
117	126	14	U6178
117	130	12	U8242
117	131	12.5	U8172
117.47	133.35	15.87	U4342
118	126	13.5	U1489
118	133	9	U5456

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
120	128	11.5	U6866
120	130	11.50	U0625
120	130	11.5	U4526
120	130	12	U6162
120	130	14	U3654
120	130	15	U8360
120	135	9	U5454
120	135	10	U9474
120	135	15	U1490
120	140	12	U1069
120	140	14.6	U5514
120	140	15	U1070
120.65	130.17	9.52	U4411
120.65	130.17	15.87	U4400
121	135	9	U6187
125	133	11	U9759
125	133	11.5	U6157
125	135	10	U6169
125	135	13.5	U4092
125	137	14	U7232
125	145	12	U3841
125	145	14.6	U5513
125	145	15	U2200
125	150	15	U3258
125	155	18	U2201
126	134	7.5	U8361
127	139.7	9.52	U4282
127	139.7	14.28	U4283

Shaft diam.	Bore diam.	Width diam	Drawing no.
127	142.87	12.7	U4344
127	146.05	15.87	U4299
128	136	11.5	U6170
128	140	10	U6627
129	137	10	U8161
129	139	11.5	U8165
130	138	11.5	U6171
130	140	11.5	U7345
130	140	12	U9533
130	140	13.5	U4093
130	145	12	U7499
130	150	12	U3919
130	150	15	U1113
130.17	142.87	14.28	U4317
130.17	152.4	12.7	U4345
131	150	13	U6188
132	142	8.7	U3986
132	142	15	U0859
133.35	146.05	15.7	U7512
135	143	11.5	U6164
135	145	11.5	U8037
135	145	12	U7504
135	145	15	U7480
135	147	10	U8425
135	148	15	U7064
135	150	11.5	U4047
135	150	15	U6165
136.52	149.22	15.87	U4318

E1

UIP2

APPLICATION : ROD
 MATERIAL : PU
 UNIT: METRIC



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Shaft diam.	Bore diam.	Width diam	Drawing no.
136.52	152.40	15.87	U4343
137	146	14	U6189
139.70	152.40	9.52	U4320
139.70	152.40	14.28	U4319
139.70	155.57	7.93	U4671
139.7	158.75	15.87	U4305
140	148	11.5	U6166
140	150	11.5	U4527
140	150	12	U3655
140	155	12	U0624
140	160	12	U3842
140	160	14.6	U5537
140	160	15	U2204
140	165	15	U2205
140	170	18	U1125
141	151	5	U8362
141	151	12.5	U6167
141	151	14	U6989
141	151	15	U8398
142	156	12	U8238
142	156	12.5	U8173
142.87	155.57	9.52	U4321
143	151	11.5	U6881
143	151	13.5	U4159
145	153	11.5	U8102
145	155	12	U9636
145	155	12.5	U6237
145	160	12	U6168

Shaft diam.	Bore diam.	Width diam	Drawing no.
145	160	14.9	U9761
149	159	11.5	U8166
150	160	13.5	U4094
150	160	15	U0860
150	162	14	U7231
150	170	14.5	U4048
150	170	15	U1112
150	180	15	U3260
150	180	18	U1502
151	159	10	U8162
152	162	12	U9535
152	167	12	U6628
152.40	165.10	14.28	U4322
152.4	171.45	15.87	U4306
154	164	11.5	U8015
155	165	11.5	U7347
155	165	15	U7484
160	168	11.5	U0471
160	170	11.5	U5012
160	170	12	U6719
160	175	18	U7065
160	180	15	U3261
160	185	15	U1116
160	185	18.2	U1503
160	190	18	U2919
162	172	14	U6985
162	172	15	U8363
165	177	10	U8427

NAK STANDARD

UIP2

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
165	185	12	U5035
165.1	184.15	15.87	U4307
169	179	11.5	U8167
170	180	15	U7012
170	190	15	U2072
170	200	18	U1114
171	179	13.5	U4169
171.45	184.15	15.7	U7449
175	185	11.5	U7977
175	185	12	U7498
175	185	15	U7470
175	187	15	U7234
176	186	10	U8163
177.80	190.50	14.28	U4326
177.8	196.85	15.87	U4308
180	190	10	U4170
180	190	11.5	U7346
180	192	14	U6736
180	195	12.5	U7469
180	200	15	U1505
180	205	15	U2915
180	205	19	U1117
180	210	18	U1506
183	193	14	U6988
183	193	15	U8364
185	195	12	U7964
185	195	13.5	U7669
185	197	15	U7091

Shaft diam.	Bore diam.	Width diam	Drawing no.
188	200	10	U8428
190.50	203.20	9.52	U4325
191	201	11.5	U8168
195	205	12	U9635
196	206	15	U7475
196.85	215.90	15.87	U4309
197	207	11.5	U7967
200	210	12	U9534
200	212	12	U7500
200	220	10.5	U8644
200	220	15	U2987
200	225	16	U5036
200	225	19	U1119
200	230	18	U1508
203.20	215.90	9.52	U4323
203.20	215.90	14.28	U4324
203.2	222.25	15.87	U4310
205	220	12.5	U4049
207	217	14	U6987
207	217	15	U8365
210	225	18	U6737
210	230	15	U2988
210	240	18	U1121
212	222	12	U7963
214	224	11.5	U8169
215.90	228.60	9.52	U4327
220	250	18	U1120
225	245	15	U00108

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UIP2

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC / INCH



E1

Shaft diam.	Bore diam.	Width diam.	Drawing no.
228.6	241.30	14.28	U4328

Shaft diam.	Bore diam.	Width diam.	Drawing no.
0.375	0.625	0.210	U7072
0.500	0.750	0.210	U7073
0.750	1.000	0.250	U6400
1.000	1.250	0.250	U2018
1.122	1.650	0.375	U1257
1.125	1.375	0.250	U5473
1.230	1.750	0.250	U2657
1.250	1.500	0.187	U6042
1.250	1.500	0.250	U5474
1.250	1.625	0.187	U6401
1.250	1.625	0.375	U7039
1.250	1.750	0.250/0.275	U2538
1.375	1.750	0.187	U6402
1.437	1.812	0.312	U6403
1.500	1.750	0.187	U6043
1.500	1.875	0.187	U6404
1.500	2.000	0.250	U6405
1.500	2.125	0.375	U6406
1.625	2.125	0.375	U6407
1.750	2.000	0.250	U6408
1.750	2.250	0.250	U6409
1.750	2.250	0.500	U6410
1.750	2.254	0.394	U5763
1.875	2.375	0.375	U6411
2.000	2.500	0.250	U6412
2.000	2.625	0.312	U6439
2.125	2.500	0.313	U8614
2.125	2.625	0.375	U00225

NAK STANDARD

UIP3

APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
45	60.5	6.3	U7844
50	65.5	6.3	U7843
70	85.5	6.4	U6837
75	90.5	6.4	U6550
80	95.5	6.4	U6554
85	100.5	6.4	U6546
95	110.5	6.4	U6548
100	115.5	6.4	U6822

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UIP9

APPLICATION : ROD

MATERIAL : PU

UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
12	16	3.4	U7863
12.5	16.5	3.5	U8657
12.7	17.7	3.6	U8662
14	18	3.4	U7864
14.5	18.5	3.4	U9600

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UIR

APPLICATION: ROD
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
2.5	6	1.8	U7582
3	6.5	3	U7038
3	7	3	U5118
6	12	3.5	U7454
6.35	12.7	3.96	U7467
8	16	5.5/6	U8429
9.5	13.5	2.4	U5458
9.5	14	2.5	U2008
9.5	16.5	4	U8598
10	14	2.9	U9640
10	15	3.5	U8279
10	16	4	U0640
10	16	4	U0640
10	18	5	U8147
10	25	5.2	U1733
11.5	15.5	2.9	U8449
12	19	4.5	U6556
12.5	18	3.5	U00164
12.5	27	5	U00136
12.75	19.2	3.8	U8280
14	18.3	3	U8176
14	22	4.5	U9748
14	26	5	U9882
14	29	5	U00135
15	22	4.3	U8422
15.87	22.22	4.76	U7472
16	22	5	U8401
16	22.4	3.2	U7299

Shaft diam.	Bore diam.	Width diam	Drawing no.
16	24	4	U00152
16	24	6.5	
16	26	5.7	U5477
16	28	5	U9883
16	37	5	U00137
17	27.8	6.2	U7777
17	28	6.2	U7580
17.46	23.8	4.5	U7473
18	24	4.6	U7474
18	25	6	U5129
18	26	4	U00153
18	30	5	U9884
20	27	5	U8928
20	30	10	RD064
22	30	5.5	U9055
24	32	5.5/6	U8594
24.96	35	6	U7857
24.96	35	8.2	U3813
25	33	4.5	U9876
25	34	5.2	U7116
25	35	7	U8088
25	35	8	U0132
25.4	35	6.5	U5903
25.4	38.1	6.35	U7615
27	35	5.2	U7281
28	36	4	U0711
28	36	4	U0711
28	38	7	U7616

E1

NAK STANDARD

UIR

APPLICATION: ROD
MATERIAL: NBR / FKM
UNIT: METRIC



E1

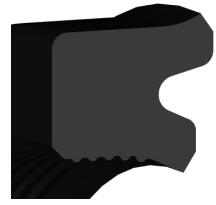
Shaft diam.	Bore diam.	Width diam	Drawing no.
28.5	36.5	5	U9266
30	36	5	U1109
30.16	38.1	5	U00073
32	40	4.5	U7046
32	40	5.5	U9730
32	41	6	U8525
32.7	40.5	5	U7720
33.34	40.63	4.6	U7617
33.5	40	5	U6995
34.7	44	6	U7716
35	44	5	U2837
35	44.7	6.5	U8634
35	45	6.5	U5999
35	46	6.8	U7696
35	46	7	U7695
36	46	6.2	U7274
38	47.7	6.5	U7143
39	49	6	U0771
40	50	7	U5089
40	51	7	U7697
42.5	54	9.5	U8459
44	55	11.5	U7283
45	56	7	U7712
47.5	51.5	3.5	U00256
47.63	63.5	9.52	U7468
48	58	7	U6915
50	57	5.3	U7851
63.5	76.2	7.92	U7630

Shaft diam.	Bore diam.	Width diam	Drawing no.
90	102	8.5	U7414

NAK STANDARD

UIR7

APPLICATION : ROD
MATERIAL : NBR/HNBR
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
28.5	36.5	5	U9566
30	38	5	U8659
30.5	39	5	U00114
31	38	5	U8861
32	41	6	U8708
32	41	6	U8708
32.5	41	5	U00112
33	40	5	U8862
33	41.5	6	U8642
33.5	40	5	U8643
35	44	6	U8706
35	44	6.4	U8406
35	44.7	6.5	U9575
42	52	6.5	U8177
45	57	7	U8972

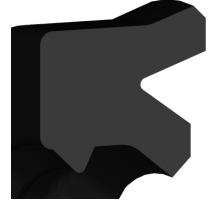
Shaft diam.	Bore diam.	Width diam	Drawing no.

E1

NAK STANDARD

UIR21

APPLICATION: ROD
MATERIA : NBR / EPDM
UNIT: METRIC



E1

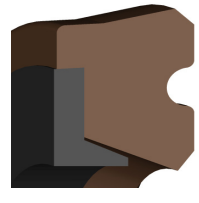
Shaft diam.	Bore diam.	Width diam	Drawing no.
14	22	6.3	U9937
18	24	5	U8687
20	28	5.5	U00118
47	52	5	U00249

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UIR-PL

APPLICATION: ROD
MATERIAL: PTFE+NBR
PTFE+FKM
UNIT: METRIC



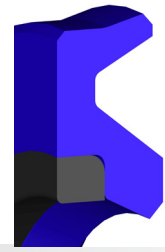
Shaft diam.	Bore diam.	Width diam.	Drawing no.
14	26	5	U5304
16	28	5	U5274
16	28	5	U6645
18	30	5	U7205
21	29	6	U0772
22	30	5	U0773
24	33.5	5.5/6	U0777

Shaft diam.	Bore diam.	Width diam.	Drawing no.

NAK STANDARD

UIB3

APPLICATION : ROD
MATERIAL : PU+PA
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
40	55.5	6	U5328
50	65.5	6	U6761
65	85.5	6	U9564
70	85.5	6	U9565
75	90.5	6	U5330
80	95.5	6	U6657
85	100.5	6	U8636
95	110.5	6	U5722
100	115.5	6	U6763
110	125.5	6	U00298
120	135.5	6	U5332
130	145.5	6	U5698
135	150.5	6	U6764
150	165.5	6	U6659
180	195.5	6	U6765

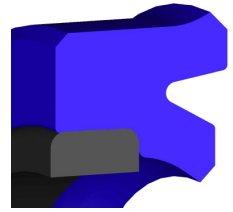
Shaft diam.	Bore diam.	Width diam	Drawing no.

E1

NAK STANDARD

UIBR

APPLICATION: ROD
 MATERIAL: NBR/HNBR
 UNIT: METRIC



E1

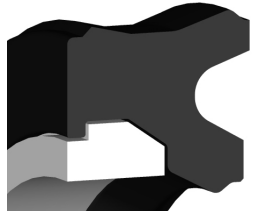
Shaft diam.	Bore diam.	Width diam.	Drawing no.
35	46	7	U00115
40	51	7	U7709
44.5	55	7	U7708
45	56	7	U7711
48	58	6.5	U9934
50	61	7	U7230
53.5	64.5	7	U7710
57.5	68.5	7	U7229
58.5	69.5	7	U7713

Shaft diam.	Bore diam.	Width diam.	Drawing no.

NAK STANDARD

UIB 1R

**APPLICATION: ROD
MATERIAL: PU
UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
24	33.5	6	U8707
24	33.5	6.35	U2582
32	40	5	U00223

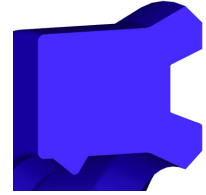
Shaft diam.	Bore diam.	Width diam	Drawing no.

E1

NAK STANDARD

UNP2

**APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC**



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
8	16	5.7	U1831
13	24	6	U6560
14	22	5.8	U8600
18	26	5.8	U3640
20	28	5.8	U6096
22	30	5.8	U7122
22	30	7	U6099
25	32	6	U1221
25	33	5.8	U2970
25	33	6.5	U6945
25	35	5.8	U00246
25	35	7	U0494
25	40	10	U00299
28	38	7	U0995
30	38	7	U5512
30	38	8	U0462
30	40	10	U0493
32	42	7	U2652
35	45	10	U00282
36	44	8	U3582
37	47	7	U1018
38.1	47.6	9.5	U0661
40	48	5.4	U0495
40	48	6	U1382
40	48	6.3	U0388
40	48	8	U5309
40	50	7	U2653
40	50	10	U0392

Shaft diam.	Bore diam.	Width diam	Drawing no.
40	52	8	U1946
42	52	8	U8310
45	53	8	U2651
45	55	5.8	U3835
45	55	7	U1583
45	55	10	U0491
50	58	8	U0545
50	60	7	U0709
50	60	7.3	U7800
50	60	10	U0490
55	63	8	U6986
57	65	8	U2788
60	68	6.3	U7377
60	75	10	U3563
62	67.5	5	U7740
65	73	8	U3533
66.67	76.2	9.5	U00154
70	80	12	U2612
75	83	6.3	U7380
75	83	8	U00145
76.2	88.9	9.52	U2890
78	90	12	U7464
82	94	8	U7463
85	93	6.3	U7371
85	93	8	U4171
90	98	6.3	U7372
95	103	8	U00158
100	110	12	U7253

NAK STANDARD

CIP

APPLICATION : ROD
MATERIAL : PU
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
14	20	3.5/4	U0410
38	48	11.3	U6828

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

CIR

**APPLICATION: ROD
MATERIAL: NBR/FKM
UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
7.9	13.5	3	U7714
7.93	14.28	3.25	U4365
10	14	2.5	U0411
12	18	5	U7476
12	20	5	U4364
12.5	20	4	U7308
12.5	20	4	U7701
14	22	5	U7477
14	22	6	U4366
15.5	25	6	U9654
15.5	25	6	U9654
15.5	25	6	U9654
16	24	4	U7702
18	25	4.5	U4367
20	28	5.5	U7478
20	30	4.7	U8688
22	32	5	U7398
23	34	6	U9942
25	33	4.5	U7045
25	35	6	U7700
28.2	36	5	U9734
28.2	36	5	U9734
29	40	6	U00017
30	40	6	U9434
30	40	6.5	U7365
30	40	6.5	U9852
30	40	6.5	U7365
32	42	6	U7548

Shaft diam.	Bore diam.	Width diam	Drawing no.
33.5	44	6	U7276
33.5	44	6	U7276
34	44	6	U7044
34	44	6	U7044
38	49	6	U7551
42	54	9	U7402
42	54	9	U7402

NAK STANDARD

CIR

APPLICATION : ROD
MATERIAL : NBR/FKM
UNIT: INCH



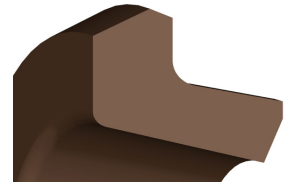
Shaft diam.	Bore diam.	Width diam	Drawing no.
0.700	0.938	0.180	U8654

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

LIR

APPLICATION : ROD
MATERIAL : NBR / FKM
UNIT: MATRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
11	18	2/5	U6119

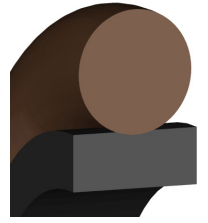
Shaft diam.	Bore diam.	Width diam	Drawing no.

E1

NAK STANDARD

HRO

APPLICATION: ROD
MATERIAL: PTFE+NBR
PTFE+FKM
UNIT: METRIC



E1

Shaft diam.	Bore diam.	Width diam	Drawing no.
30	39	3.8	U6785
50	65	6.3	U6840
90	105	6.3	U6788

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UOP

APPLICATION: PISTON
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
5	12	5.5	U6209
6	10	4.2	U2685
6	10	4.5	U3581
8	14	5.7	U3509
8	14	6.3	U6210
8	15	5.7	U4627
8	16	5.8	U7699
10	15.5	4.1	U4823
10	16	4.5	U4575
10	16	8	U6183
10	20	7.5	U2267
10	20	8	U2399
10	25	10	U6240
12	18	5.1	U4822
12	20	5.5	U2421
12	20	6.5	U6234
12	22	8	U2422
14	20	5.5	U6252
15	25	7.3	U2423
15	25	8	U2189
15	30	10	U2424
16	24	5.7	U4014
17	25	5.5	U2425
19.05	28.57	7.93	U4732
20	30	8	U1311
20	35	10	U6232
20	44	11	U6321
20.63	30.16	6.35	U7849

Shaft diam.	Bore diam.	Width diam	Drawing no.
21	37	12	U2167
22	30	6.5	U1057
22	30	6.65	U8149
22	32	7.3	U2427
22	32	8	U6239
22	32	10	U0379
22	34	8.7	U6243
22	34	9	U6233
22	36	9.5	U9443
22	42	10	U3299
24	32	5.5	U4709
24	32	5.7	U2428
24	34	6.5	U4626
24	36.5	6.5	U6306
24	40	9	U2790
25	35	7.3	U2430
25	35	8	U6231
25	40	9	U2431
25	40	10	U2191
25	43	9	U6322
25	45	12	U2433
26	32	5	U6238
26.5	42	9.5	U9444
27	35	5	U7835
27	35	10	U6230
28	40	10	U2434
28.5	45	12	U6320
28.57	38.1	6.35	U4733

E2

NAK STANDARD

UOP

APPLICATION : PISTON
MATERIAL : PU
UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
30	38	6.5	U5205
30	38.1	6	U4804
30	39	6.5	U2969
30	40	6	U7381
30	40	6.5	U6300
30	40	7	U2268
30	40	8	U7374
30	40	10	U2269
30	43	10	U4788
30	45	10	U6310
30	50	12	U2435
31	38	4.7	U6305
31.75	38.1	6.35	U4734
32	40	5.7	U1174
32	40	8	U6299
32	42	10	U6298
32	50	10	U6450
33	40	8	U0539
33	43	7.3	U2270
34	50	12	U5637
34.5	42	3.7	U6297
34.92	50.8	12.7	U4735
35	45	6	U5134
35	50	8.5	U6451
35	50	10	U0590
35	55	12	U2436
37	45	9	U0747
38.1	50.8	9.52	U4736

Shaft diam.	Bore diam.	Width diam	Drawing no.
39.5	55	10	U8070
40	50	6	U8376
40	50	7	U2271
40	50	10	U0444
40	55	10	U6746
40	60	12	U2437
40	60	13.5	U6452
40	62	15.2	U0660
40.8	50.8	7.5	U6735
41.27	50.8	4.76	U4728
41.27	50.8	7.93	U4729
41.27	50.8	9.52	U4730
41.27	63.5	12.7	U4724
42	50	5.5	U6454
42	50	8	U2614
42	50	10	U6453
42	52	10	U6734
43	63	12	U1009
44	54	7.3	U2272
44.45	57.15	9.52	U4731
45	55	6	U7373
45	55	10	U6745
45	56	7	U2821
45	60	10	U1234
45	63	10	U6738
45	63	12	U3002
45	65	12	U6739
46	56	6	A0636

NAK STANDARD

UOP

APPLICATION: PISTON
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
47	55	4.8	U6879
47	55	5.7	U6744
47.62	57.15	9.52	U4723
47.62	63.5	12.7	U4725
48	63	9	U2279
48	63	10	U9860
48	63	11.4	U2276
48	63	12	U2038
48	68	10	U6747
50	60	6	U7369
50	60	7	U1312
50	60	8	A0506
50	60	10	U2323
50	65	10	U2277
50	65	11.5	U6106
50	70	13.5	U6030
50	70	15	U6743
50	75	14	U6796
50.8	63.5	6.35	U4726
50.8	63.5	9.52	U4727
52	60	8	U6741
53	63	4.25	U5774
53	63	6	U00061
53	63	7	U1046
53	63	12	U0840
53.97	63.5	6.35	U4714
53.97	63.5	7.93	U4715
53.97	63.5	9.52	U4716

Shaft diam.	Bore diam.	Width diam	Drawing no.
53.98	69.85	7.93	U6969
54	60	6	U5009
55	63	5.7	U2282
55	65	7.3	U2283
55	65	10	U6740
55	70	9	U7378
55	70	9.5	U6758
55	70	10	U4010
55	70	12	U1151
55	75	12	U2400
55	75	13.5	U6801
57	67	7.3	U2281
58	72	12	U6795
60	70	6	U4874
60	70	7	U6759
60	70	8	U4011
60	70	12	U1313
60	70	13.5	U6793
60	75	12	U2401
60	80	12	U1384
60	80	14.5	U2402
60.32	76.2	12.7	U4721
61	71	6	U4012
61	71	6.5	U5356
62	70	7.5	U6794
63	73	6	U7331
63.5	76.2	6.35	U4722
63.5	76.2	9.52	U4737

E2

NAK STANDARD

UOP

APPLICATION : PISTON
 MATERIAL : PU
 UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
65	75	6	U9890
65	75	7.2	U6996
65	75	8	U8629
65	75	13.5	U6414
65	80	8.6	U7743
65	80	10	U8325
65	80	11.4	U2732
65	80	12	U3872
65	85	10	U3674
65	85	13.5	U5835
65	90	12	U3004
66.67	76.2	9.52	U4738
66.67	82.55	12.7	U4739
69.85	82.55	6.35	U4740
69.85	82.55	9.52	U4741
69.85	88.90	12.70	U4635
69.85	88.90	15.87	U4636
70	80	6	U4978
70	80	6.7	U2403
70	80	7	U3547
70	80	8	A0507
70	80	12	U0900
70	85	12	U3003
70	90	12	U3284
70	90	13.5	U6808
70.25	84.93	10.32	U9755
71	80	6	U7370
72	80	12	U0724

Shaft diam.	Bore diam.	Width diam	Drawing no.
73.02	82.55	6.35	U4742
73.02	88.90	7.93	U4776
73.02	88.9	12.7	U4697
75	85	6	U4979
75	85	8	U4008
75	85	10	U6807
75	90	9	U7363
75	90	11.4	U3807
75	90	12	
75	100	18	U6934
76.2	88.9	6.35	U4698
76.2	88.9	9.52	U4699
79.37	88.9	9.52	U4700
79.5	89	7	U3806
80	90	6	U7357
80	90	10	U6809
80	90	13	U6810
80	95	9	U7330
80	95	12	U6811
80	100	10	U2414
80	100	12	U2388
80	100	13.5	U2360
80	100	15	U2404
80	101.6	12	U6816
82.55	95.25	9.52	U4701
82.55	101.6	9.52	U4637
82.55	101.6	12.7	U4638
82.55	101.60	15.87	U4639

NAK STANDARD

UOP

APPLICATION: PISTON
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
83	94	6	U9935
85	95	7	U7271
85	95	7.5	U7118
85	100	9	U7356
85	100	11.4	U4009
85	100	12	U0396
85	110	15	U3298
85	110	18	U5053
85.72	101.6	12.7	U4702
86	100	12	U6817
88.9	101.6	6.35	U4703
88.9	101.6	7.93	U4704
88.9	101.6	9.52	U4705
90	100	7	U6820
90	100	10.5	U5162
90	100	14	U7885
90	105	12	U1948
90	110	12	U2137
90	110	15	U2154
90	115	15	U3005
92.07	101.6	9.52	U4706
95	110	10	U2155
95	110	12	U4997
95	115	14.5	U6651
95	115	15	U3006
95	120	15	U6963
95	125	18	U2335
95.25	107.95	9.52	U4707

Shaft diam.	Bore diam.	Width diam	Drawing no.
95.25	114.30	15.87	U4630
95.65	110.33	10.32	U9757
98	115	14.5	U3873
98	150	14.5	U6621
100	110	7	U6799
100	110	10.5	U5802
100	110	13.5	U6800
100	115	10.5	U6815
100	120	12	U1314
100	125	15	U2853
101.6	114.3	9.52	U4708
105	115	13.5	U6814
105	120	12	U1630
105	125	12	U4007
105	125	15	U1386
106	120	8.5	U7355
107.95	127	9.52	U4631
107.95	127	12.7	U4632
107.95	127.00	15.87	U4633
110	125	9.6	U2405
110	125	10	U5163
110	130	12	U2406
110	130	15	U1315
114.3	127	6.35	U4691
114.3	127	9.52	U4692
114.3	127	14.28	U4693
114.3	133.35	12.7	U4661
115	125	7	U1154

E2

NAK STANDARD

UOP

APPLICATION : PISTON
MATERIAL : PU
UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
115	125	15	U2897
115	130	9	U7354
115	145	18	U3801
120	130	13.5	U6538
120	140	12	U3425
120	140	15	U5740
120	150	18	U2989
120.65	139.7	15.87	U4666
125	140	9	U6309
125	140	15	U2872
125	150	13.5	U6308
130	150	15	U1387
130	160	18	U1388
133.35	152.4	9.52	U4665
133.35	152.4	12.7	U4664
133.35	152.4	15.87	U4663
135	150	9	U7351
135	160	18.5	U2203
139.7	152.4	6.35	U4710
139.7	152.4	9.52	U4711
139.7	152.4	14.28	U4712
140	150	7	U6307
140	155	9	U7802
140	160	13.5	U6643
140	160	15	U2828
140	165	19	U7638
145	160	9	U6317
145	170	19	U6316

Shaft diam.	Bore diam.	Width diam	Drawing no.
146.05	158.75	14.28	U4713
150	170	15	U2832
150	180	18	U2827
155	180	16.4	U00172
158.75	177.8	9.52	U4659
158.75	177.8	12.7	U4658
158.75	177.80	15.87	U4634
160	180	13.5	U6325
160	180	15	U1879
165	180	9	U7165
165	190	16	U3916
165.1	177.8	6.35	U4717
165.1	177.8	9.52	U4718
166	180	15.5	U6326
170	190	15	U6327
170	200	18	U6366
175	190	9	U4793
175	200	18.2	U3643
175	200	19	U5687
180	200	15	U2361
180	200	18	U7667
184.15	203.2	15.87	U4660
190	210	12	U7096
190	220	18	U1988
190.5	203.2	6.35	U4719
195	220	16	U6558
200	220	15	U1756
203.2	228.6	19.05	U4720

NAK STANDARD

UOP

APPLICATION: PISTON
MATERIAL: PU
UNIT: METRIC / INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
220	240	16	U7815
220	250	18	U3863
225	250	18.2	U4642
230	250	15	U1757
270	300	18	U00109

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.375	0.750	0.312	U6432
1.125	1.500	0.250	U6433
1.625	2.500	0.500	U6430
1.750	2.250	0.375	U6431
1.875	2.500	0.500	U6429
2.500	3.000	0.250	U6428
2.500	3.000	0.375	U5726
2.625	3.250	0.500	U6427
2.750	3.250	0.250	U6426
2.750	3.250	0.375	U6425
2.812	3.250	0.250	U6756
2.875	3.250	0.250	U6424
2.875	3.500	0.500	U6423
3.125	3.500	0.375	U6422
3.250	3.750	0.375	U6421
3.375	4.000	0.500	U6419
3.500	4.000	0.250	U6420
3.500	4.000	0.312	U6440
3.625	4.000	0.375	U6441
3.750	4.250	0.375	U6442
4.000	4.500	0.375	U6443
4.250	5.000	0.625	U6444
4.500	5.000	0.250	U6445
4.500	5.000	0.562	U6446
5.250	6.000	0.375	U6447
5.500	6.000	0.375	U6448
5.500	6.000	0.562	U6449
5.750	6.250	0.562	U6455

E2

NAK STANDARD

UOP

**APPLICATION : PISTON
MATERIAL : PU
UNIT: INCH**



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
6.250	7.000	0.375	U6456
6.250	7.000	0.625	U6457
6.500	7.000	0.250	U6458
6.500	7.000	0.375	U6393
7.500	8.000	0.250	U6394
8.000	9.000	0.750	U6184

Shaft diam.	Bore diam.	Width diam	Drawing no.

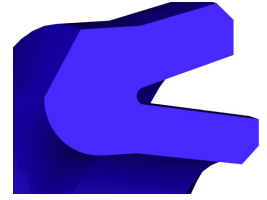
NAK STANDARD

UOP4

APPLICATION : PISTON

MATERIAL : PU

UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
11.9	18	5.2	U4968
12.9	19	5.2	U4969
13.4	19.5	5.2	U4967
13.9	20	5.2	U4966
15.9	22	5.2	U4965
29.5	23.4	5.2	U00209

Shaft diam.	Bore diam.	Width diam	Drawing no.

E2

NAK STANDARD

UOP9

APPLICATION : PISTON
MATERIAL : PU
UNIT: METRIC



E2

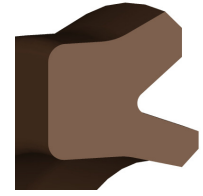
Shaft diam.	Bore diam.	Width diam	Drawing no.
30	45	9.2	U8633
45	60	9.2	U8632
51	66	9.2	U9496
55	70	9.2	U9495
65	80	9.2	U9493
85	100	9.2	U9494

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UOR

APPLICATION : PISTON
 MATERIAL : NBR/FKM
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
1.8	4	2.1	U8450
2	3.5	2	U8439
4.76	11.11	3.96	U7435
5	8	2.2	U8451
5	9.5	4	U7947
5	10	4	U7949
5	10.5	4	U7948
6	9	2.1	U8343
6	13	4	U7285
6	13	4	U7286
10	14	2.9	U5622
11	15	2.8	U8665
11	22	7	U8420
11.84	18.03	4.7	U3815
12	16	3.2	U4921
12.5	25	6.6	U8419
12.7	19	3.17	U7660
13.78	22.2	6.4	U4625
14	20	2.55	U8561
14	23.5	4	U7731
16	20	3.2	U4923
16	22	4	U0813
18	22	2.8	U8666
18	26	4.5	U7212
18	27.4	5.2	U1137
19.05	29	6.35	U7436
20	30	7	RD065
20.5	30	6.35	U8120

Shaft diam.	Bore diam.	Width diam	Drawing no.
21	25	3.2	U4922
22	28	3.25	U5733
22	35	6.35	U8232
23.5	31.5	6	U9630
23.8	36.5	7.92	U7437
27.3	40	6.35	U7619
28	34.3	4.8	U8276
28.57	44.45	9.52	U7607
30	38	3.25	U5297
30	38	6.35	U7439
30	40	6/7	U8301
30.16	38.1	5	U8993
31.5	38.5	5.5	U7043
32	40	3.25	U5298
32.5	40.5	5.2	U9173
33	42.5	7.2	U8690
35.2	45	7/8.5	U8324
37	44	5.5/5	U8286
37.5	43	3.8	U1634
40	50	7	U5090
41.27	57.15	6.35	U7438
41.3	54	9.52	U7441
42	50	3.25	U5299
44.3	57	6.35	U7442
45	55	5.5/7	U8300
45	55	7	U7608
47.62	63.5	9.5	U8458
50	56	4.7	U00250

E2

NAK STANDARD

UOR2

APPLICATION : PISTON
MATERIAL : NBR / FKM
UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
3	6	2.1	U8448
6	10	2.5	U8447
13.25	28	8.5	U5412
16	22	5	U8684

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UOR6

APPLICATION: PISTON
MATERIAL: NBR
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
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4	9.5	3.6	U7999
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4	10	3.6	U8013
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4	10.5	3.6	U8014
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Shaft diam.	Bore diam.	Width diam	Drawing no.
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E2

NAK STANDARD

UOB

APPLICATION: PISTON

MATERIAL: PU+PA

UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
35	60	15.5	U8087
45	70	15.5	U7342
60	80	12.2	U8434
75	90	9.3	U8153
80	110	15.4/17.2	U4971
85	100	9.3	U8154

Shaft diam.	Bore diam.	Width diam	Drawing no.
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E2

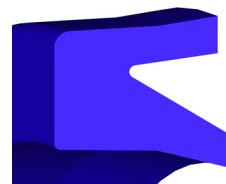
NAK STANDARD

COP

APPLICATION: PISTON

MATERIAL: PU

UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam	Drawing no.
49.29	58.83	5.33/5.74	U0284
50	58	5/7	U0050
59.56	69.26	5.33/5.74	U0070
69.57	79.37	5.33/5.74	U0072
79.52	89.36	5.33	U0228
89.60	99.57	5.33/5.74	U0073
99.60	109.55	5.33/5.74	U0071
104.69	114.55	5.18/5.74	U0498
108.36	123.8	7.24	U0550

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

COR

APPLICATION: PISTON
 MATERIAL: NBR/FKM
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
4.2	10.925	4.8	U2005
8	16	5.5	U8533
8.5	15.5	4.7	U9651
10	18.5	5	U7574
10.5	19.05	5	U7775
11.5	20.5	5	U7577
12	19.5	4	U7717
12	19.5	6	U7576
12	20	5.2	U7721
12.5	20	6	U7722
14.5	23.5	5	U7575
14.5	23.5	5.2	U7578
15	23	5.2	U7729
15.1	23.81	5	U7765
15.5	23.5	5.3	U7733
17	25	6	04697
25	36	8	U7333
30	38	6.3	U8865
105	124	7	
140	155	10	U8588
155.39	181	9.5/11	U0259

Shaft diam.	Bore diam.	Width diam	Drawing no.

E2

NAK STANDARD

PD

APPLICATION: PISTON
MATERIAL: NBR/HNBR
UNIT: METRIC



E2

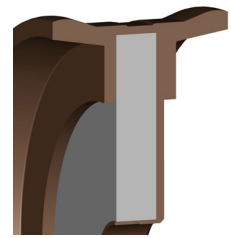
Shaft diam.	Bore diam.	Width diam	Drawing no.
14	20	2.24	P0077
24	32	3	P0060
32	40	3	P0061
40	50	3.8	P0059
53	63	3.8	P0058
65	80	5.6	P0062
85	100	5.6	P0075

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

PDV

APPLICATION: PISTON
MATERIAL: NBR/FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
4	16	11	P0017
8	25	12	P0018
8	32	15	P0019
8	32	15	P0019
8	40	20	09121
8	40	20	09121
8	40	20.5	P0054
8	50	17.5	P0025
8	50	20	P0064
10	40	18	P0022
10	50	18	P0021
10	50	18	P0049
10	50	20.5	P0040
10	50	20.5	07668
10.2	50	15	P0028
12	63	5/22	11321
12	63	22	P0020
12	70	22	P0023
13	63	11/14	P0065
16	63	21.5	P0074
16	80	25	P0011
16	90	25	P0043
16	100	25	P0052
16	101	25	P0081
20	100	26	P0053
20	125	30	10377
20	140	30	P0042
25	7	8	

Shaft diam.	Bore diam.	Width diam	Drawing no.

E2

NAK STANDARD

PDV3

APPLICATION: PISTON
MATERIAL: NBR
UNIT: METRIC



E2

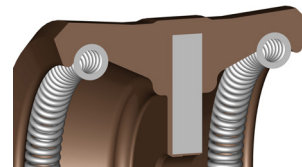
Shaft diam.	Bore diam.	Width diam	Drawing no.
6	20	7.7	P0079
10	35	8	P0080
10	40	10	P0082

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

PDH

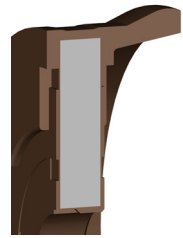
APPLICATION : PISTON
MATERIAL : NBR/FKM
UNIT: METRIC



E2

Shaft diam.	Bore diam.	Width diam.	Drawing no.
8	35	26	P0014
10	40	25	11710
10	50	25	11536
12	65	25	16695
12	85	35	13395

Shaft diam.	Bore diam.	Width diam.	Drawing no.



Shaft diam.	Bore diam.	Width diam	Drawing no.
8	35	10	P0038

Shaft diam.	Bore diam.	Width diam	Drawing no.

E2

NAK STANDARD

PSV2

APPLICATION: PISTON
MATERIAL: NBR/FKM
UNIT: METRIC



E2

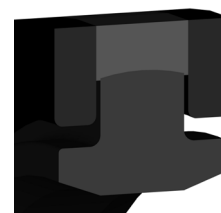
Shaft diam.	Bore diam.	Width diam.	Drawing no.
7	25	5.4/6.4	P0031
8	32	6/7.5	P0032
12	63	8/10	P0033

Shaft diam.	Bore diam.	Width diam.	Drawing no.

NAK STANDARD

HOD

APPLICATION : PISTON
MATERIAL : PTFE+NBR+PA
UNIT: METRIC



E2

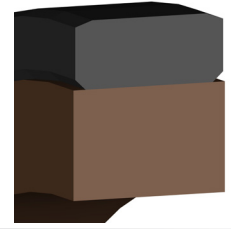
Shaft diam.	Bore diam.	Width diam	Drawing no.
36	50	8.5	U6767
55	70	10.5	U6768
75	90	10.5	U6769
85	100	12	U6681
100	115	12	U00168
105	120	12	U6682
105	120	12	A1856
107	130	15.5	U5707
112	135	16	U5708
117	140	15.5	U00301
127	150	15.5	U5709
127	150	15.5	U6683
137	160	15.5	U00300
162	185	15.5	U5712
162	185	15.5	U6684
207	230	15.5	U6770

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

HPS

APPLICATION: PISTON
MATERIAL: PTFE+NBR
PTFE+FKM
UNIT: METRIC / INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
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40.5	50	4.3	U7841
48	63.4	7	U7842
59	70	4.2	U7266
85	100	7.3	U7020

Shaft diam.	Bore diam.	Width diam	Drawing no.
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2.948	3.500	0.279	U5770
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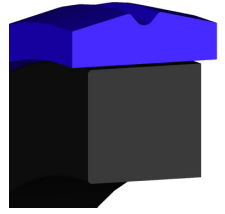
E2

HPS2

APPLICATION: PISTON

MATERIAL: PU+NBR

UNIT: METRIC



E2

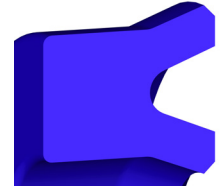
Shaft diam.	Bore diam.	Width diam	Drawing no.
44.5	60	6	U9549
56	71	7.1	U7718
66	81	7.1	U7719
74.5	90	6	U5583
79	100	7.8	U5584
89	110	7.8	U5582

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

UNP

APPLICATION: ROD & PISTON
 MATERIAL: PU
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
3	9	4.5	U0946
3	10	5	U0487
4	7	3.5	U3125
4	9	4	U9788
4	10	4	U0022
4	10	4.5	U2444
4	10	5	U9674
4	12	4	U9795
4	12	5.5	U8308
4.5	11	5	U0928
4.5	12.5	4.5	U0994
5	10	5	U3829
5	11	5	U6276
5	11	7	U2904
5	11	8	U9802
5	12	5	U0458
5	12	6	U0476
5	12	6.2	U6263
5	12	8	U9808
5	12.7	8.5	U6323
5	15	8	U9810
5	17	9	U6011
6	10	4.2	U1927
6	11	7	U7413
6	12	3.5	U6311
6	12	4	A0683
6	12	4.5	U0925
6	12	5	U0927

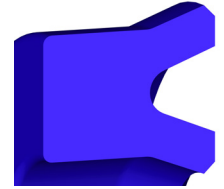
Shaft diam.	Bore diam.	Width diam	Drawing no.
6	12	5.5	U2394
6	12	6	U0077
6	12	7	U6312
6	12	8	U0273
6	12.7	6	U6244
6	13	8	U3995
6	14	5.7	U8417
6	14	6	U2650
6	15	4	U3477
6	15	5	U6254
6	15	6	U1779
6	15	8	U0991
6	16	6	U5553
6	17	6	U9892
6.30	12.80	3.20	U6562
6.3	16.3	8	U2301
7	14	3.2	U6253
7	14	3.5	U9177
7	15	5	U6261
7	15	7	U0990
7.93	15.87	6.35	U4996
8	14	4	U1651
8	14	6	U0390
8	15	4	U9854
8	15	5.7	U0894
8	15	6	U1775
8	15	8	U0397
8	16	5.5	U0277

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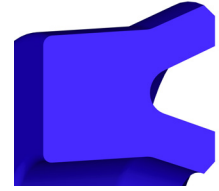
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8	16	6	U0449
8	16	8	U1403
8	18	6	U4840
8	18	8	U4143
8	18	9	U0992
8	22	8	U0892
9	15	5	U9865
9	15	8	A0632
9	16	5	U7812
9	16	6	U9908
9	17	6	U5645
9	19	6	U1584
9	19	6.5	U6259
9.95	22.22	6.85	U4784
10	14	4	U9891
10	16	4	U0393
10	16	4.5	U9402
10	16	4.8	U2922
10	16	5	U6258
10	16	6	U0428
10	16	8	
10	18	4	
10	18	5	
10	18	5.5	U1430
10	18	6	U0249
10	18	8	U0895
10	18	10	U0698

Shaft diam.	Bore diam.	Width diam	Drawing no.
10	20	6	U3421
10	20	8	U0024
10	20	10	U2009
10	22	5	U3672
10	22	6	U0993
10	22	8	A0623
10	25	10	U6257
10	32	10	U8870
11	17	4	U6256
11	20.5	6	U6228
11	20.5	6.5	U6264
11	26	8	U00105
11.2	19.2	5	
11.2	21.5	8	U2914
12	18	4	U3828
12	18	5	U0204
12	18	6	U0278
12	18	8	U7663
12	20	4	U9829
12	20	5	U3865
12	20	5.5	U5270
12	20	6	U8465
12	20	7	U0924
12	20	8	U0008
12	22	5	U0475
12	22	7	U0404
12	22	7.5	U8151
12	22	8	U0486

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Shaft diam.	Bore diam.	Width diam	Drawing no.
12	24	6	U2186
12	24	8	U1175
12	24	9	U1010
12	24	10	U6268
12	25	8	U1011
12	25	10	A0625
12	28	6	U0684
12	28	8	U8397
12.7	19	3.2	U6561
12.7	19.05	3.96	U5093
12.7	22.22	5.25	U4783
12.70	22.22	5.25	U4783
12.70	25.40	6.35	U4902
13	20.2	8	U8685
13	25	10	U9801
14	20	4	U3347
14	20	4.8	U1172
14	20	5	U0279
14	20	6	U6266
14	20	8	U4127
14	22	4	U6615
14	22	4.5	U3990
14	22	5	U1259
14	22	6	U0025
14	22	8	U1015
14	22	11	U2908
14	24	5	U9955
14	24	8	U0395

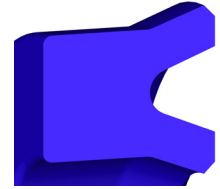
Shaft diam.	Bore diam.	Width diam	Drawing no.
14	26	8	U0488
14	28	10	U6346
14	30	5	U2534
15	22	4	U4640
15	22	5	U7813
15	22	7	U2171
15	25	5	U2172
15	25	6	U0648
15	25	8	U0004
15	25	10	U0556
15	27	6	U1431
15	27	7	U4577
15	28	8	U6265
15	28	10	U1646
15	30	6	U6328
15	30	8	U3058
15	35	10	U7631
15.87	25.4	7.14	U4894
15.87	25.40	7.14	U4894
15.87	28.57	6.35	U4901
16	20	4.5	
16	22	4	U0222
16	22	5	U2809
16	22	6	U9909
16	22	7	U0403
16	24	4	U9672
16	24	5	U0926
16	24	5.7	U4262

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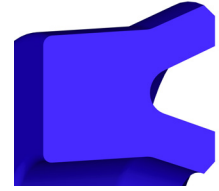
Shaft diam.	Bore diam.	Width diam	Drawing no.
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16	24	7	U9861
16	24	9	U1173
16	25	5	U7639
16	25	8	U9442
16	26	5	U1014
16	26	6	U6340
16	26	7	U1780
16	26	8	U0463
16	26	10	U1147
16	28	6	U0953
16	28	7	U9679
16	28	10	U00117
16	32	8	U1013
16.5	24	10	U9673
17	25	6	U9783
17	25	10	U0896
17	27	8	U7325
17	32	10	U6343
18	25	4	U9917
18	25	5	A0633
18	25	6	U0454
18	25	7	U9916
18	26	5	U0923
18	26	5.5	U2389
18	26	6	U7448
18	26	6.5	U1012
18	26	8	U0045

Shaft diam.	Bore diam.	Width diam	Drawing no.
18	26	8.5	U1432
18	28	5	U9798
18	28	8	U0402
18	30	8	U0726
18	30	10	U6342
18	32	7	U6341
18	34	8	U0962
18	35	8	U3624
19	25	6	U1030
19	25	7	U4595
19	27	5	U8469
19	28	7	U8467
20	26	3.3	U8349
20	26	4	U2358
20	27	6	U5526
20	27	9	U9818
20	28	4	U0156
20	28	5	U1260
20	28	5.8	
20	28	6	U6812
20	28	7	U1698
20	28	8	U0531
20	29	5	U6318
20	30	6	U3549
20	30	8	A0609
20	30	10	A0634
20	32	5	U6368
20	32	6	U6664

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Shaft diam.	Bore diam.	Width diam	Drawing no.
20	32	7.5	U1029
20	32	8	U0226
20	33	5	U9797
20	33	10	U5876
20	34	6	U9796
20	35	8	U0247
20	35	9	U8487
20	35	10	U0485
20	35	12	U1238
20	36	8	U6367
20	36	12	U5635
20	38	6	U9832
20	39	10.5	U6378
20	40	8	U9800
20	40	10	U0066
20	40	12	U1251
20	43	12	U9680
21	29.5	5	U6803
21	37	12	U2789
22	28	4	U0645
22	28	6	U6541
22	28	8	U1028
22	30	4	U0157
22	30	5	U1261
22	30	6	U0419
22	30	7	U2873
22	30	8	U6616
22	30	10	U1908

Shaft diam.	Bore diam.	Width diam	Drawing no.
22	32	5	U0695
22	32	6	U5269
22	32	8	A0624
22	32	10	U0657
22	34	6	U7074
22	34	7	U4621
22	34	10	U00063
22	35	7	U9929
22	35	8	U9681
22	35	10	U0006
22	38	10	U9813
22	40	10	U1647
22	40	12	09943
22	42	10	U9682
22.4	30	5	U1262
22.4	32.4	8	U4768
23	30	6.5	U4908
23	33	7	U9820
23	35	6	U9925
23.5	31.5	5	U4263
24	32	4	U6345
24	32	5	U0694
24	32	7	A0613
24	32	7.5	U6344
24	32	8	U4842
24	34	6	U9828
24	34	7	U7664
24	36	7	U7148

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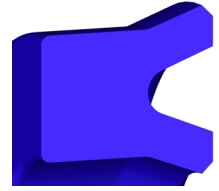
Shaft diam.	Bore diam.	Width diam	Drawing no.
24	40	8	U0018
24	50	12	U1522
25	30	6	U9895
25	31	6	U9849
25	32	4	A0600
25	32	6	U8295
25	32	7	U9838
25	32	10	U9225
25	33	4	U0158
25	33	5	U0922
25	33	6	U5792
25	33	7	U0287
25	33	7.2	U3312
25	33	8	U3475
25	33	10	U9835
25	35	5	A0662
25	35	6	U1722
25	35	7	U2810
25	35	8	U0068
25	35	8.6	U8263
25	35	10	U0236
25	36	8	U9827
25	37	6	U7635
25	37	7	U6372
25	37	9	U4960
25	38	6	U9833
25	38	7	U7172
25	38	8	U1781

Shaft diam.	Bore diam.	Width diam	Drawing no.
25	38	9.5	U0398
25	38	10	U0237
25	40	6	U9805
25	40	6.5	U9804
25	40	8	U0470
25	40	10	A0626
25	42	8	U9831
25	45	10	U0469
25	50	12	U7394
25.4	31.75	3.96	U9894
25.4	31.75	4.76	U4994
25.4	34.92	7.93	U4683
25.4	38.1	6.35	U4900
25.4	41.27	11.11	U00208
26	36	6	U9819
26	38	6	U6680
26	38	8	U0643
26	42	8	U9691
26	43	7	U9919
26	47	12	U7703
27	35	4	U5727
27	35	5	U0696
27	36	6	U0203
27	38	6	U6370
27	43	10	U1204
28	35	5	U2299
28	35.5	5	U0919
28	36	4	U0159

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Shaft diam.	Bore diam.	Width diam	Drawing no.
28	36	5	U0559
28	36	6	U6369
28	36	6.5	U1433
28	36	8	U8573
28	38	5	U9822
28	38	6	U6687
28	38	7	U9842
28	38	8	U0560
28	38	10	U1239
28	40	8	U2173
28	40	10	U0220
28	43	10	U1263
28	44	8	U0416
28	48	12	U4959
28	50	10	U8488
28.57	38.1	7.93	U7646
28.57	41.27	9.52	U4899
30	36	4	U8282
30	36	6	U9826
30	37	5.8	U0530
30	37	6	U0482
30	38	4	U6376
30	38	5	
30	38	6	U0383
30	38	7	U0431
30	38	8	U5523
30	40	5	U0197
30	40	5.5	U3987

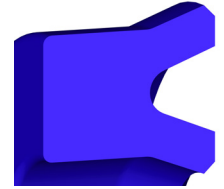
Shaft diam.	Bore diam.	Width diam	Drawing no.
30	40	6	U0921
30	40	6.5	U0567
30	40	7	U0527
30	40	8	U0238
30	40	10	A0671
30	40	10.2	U8264
30	40	11	U9413
30	42	6	U5550
30	42	8	U9823
30	42	9	U0023
30	42	10	U0258
30	43	6.5	U4839
30	43	8	U5548
30	43	10	U5547
30	44	7.5	U9899
30	44	8	U9898
30	45	8	U0468
30	45	9	U0908
30	45	10	U2078
30	45	10.2	U2307
30	47	6	U9920
30	47	8	U9812
30	47	10	U9918
30	50	10	U1637
30	50	12	A0627
30	55	10	U8074
30.16	42.86	7.93	U4897
31.5	41.5	6	U3313

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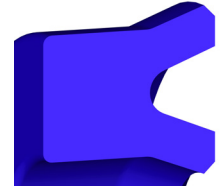
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31.75	44.45	6.35	U4898
31.75	44.45	9.52	U4687
32	38	6	U8572
32	40	4	U0160
32	40	5	U0913
32	40	5.5	U0384
32	40	6	U2526
32	40	7	U1542
32	40	8	U0144
32	40	10	U0685
32	42	6	U1264
32	42	7	U8130
32	42	8	U5549
32	42	10	A0580
32	44	4	U0686
32	44	6	U9791
32	44	8	U5874
32	45	5	U9927
32	45	6	U9840
32	45	8	U8540
32	45	10	U0138
32	47	10	A0629
32	48	10	U7261
32	50	10	U0467
32	50	12	U0912
32	52	10	U9809
33	43	10	U0429

Shaft diam.	Bore diam.	Width diam	Drawing no.
34	44	7.5	U9792
34	45	7	U6374
34	45	9	
34	46	8	U7487
34	50	14	U5909
34.92	44.45	9.52	U4777
34.92	50.8	9.52	U7110
34.92	50.80	12.70	U4887
35	42	8	U8174
35	42	10	U9830
35	43	5.7	U3314
35	43	6	U3153
35	43	7	U3057
35	43	8	U9874
35	45	5	U9944
35	45	6	U0561
35	45	7	U8281
35	45	7.5	U00029
35	45	8	A0520
35	45	10	A0578
35	47	6.2	U6725
35	47	9	U9786
35	47	10	U3938
35	48	8	U9931
35	48	10	U0104
35	50	8	U0436
35	50	10	A0577
35	50	12	U9793

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Shaft diam.	Bore diam.	Width diam	Drawing no.
35	52	8	U9803
35	52	10	U9821
35	55	10	U1027
35	55	12	A0619
35.5	43.5	8	U0722
35.5	45	6	U3997
35.5	45.5	6	U1265
36	44	4	U0161
36	44	5.7	A0661
36	44	6	U6086
36	45	10	U5775
36	46	7	U0443
36	46	10	U2359
36	50	8	U5932
36	51	10	U9789
36	70	10	U5283
38	45	6	U2871
38	45	8	U2963
38	46	6	U9868
38	46	6.5	U1026
38	48	6	U3315
38	48	8	U6717
38	48	10	U0687
38	50	6	U4584
38	50	8	U6661
38	50	9	U0184
38	50	10	U1414
38	55	10	U0185

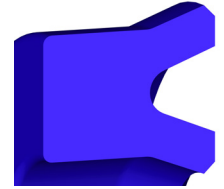
Shaft diam.	Bore diam.	Width diam	Drawing no.
38	58	10	A0587
38	60	10	U9785
38	62	12	U9896
38.10	47.62	7.93	U4684
38.1	50.8	9.52	U7447
38.10	57.15	11.91	U4891
39	47	6	U0723
40	48	6	U7590
40	48	8	U1786
40	48	11	U0200
40	49	10	U9816
40	50	5	U0067
40	50	6	U0920
40	50	6.5	U0145
40	50	7	U0288
40	50	7.5	U9817
40	50	8	U2046
40	50	10	A0522
40	50	10.2	U7100
40	50	12	U8871
40	52	8	U7260
40	52	9	U9811
40	52	11	U9824
40	55	8	U6612
40	55	10	A0581
40	56	8	U5933
40	56	10	U1025
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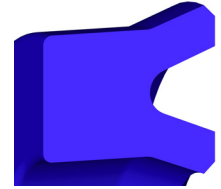
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40	58	10	U8570
40	60	8	U5546
40	60	10	A0670
40	60	12	U0146
40	60	13	U0909
40	60	18	U3026
40	62	15.2	U4087
40	65	10	U5934
40	65	12	U0465
40	70	15	U5935
40	75	10.5	U5936
41	51	7	U7485
41.27	57.15	11.11	U4896
41.27	60.32	9.52	U4892
42	50	7	
42	50	8	A0586
42	50	10	U8543
42	52	6	U6373
42	52	9	U5937
42	52	10	U2002
42	55	10	U8080
42	62	10	U7671
42	62	12	U2656
44	50	8.5	U0466
44.45	53.97	9.52	U4844
44.45	57.15	7.93	U9633
44.45	57.15	9.52	U4688
44.45	60.32	11.11	U4885

Shaft diam.	Bore diam.	Width diam	Drawing no.
45	53	5.7	A0660
45	53	6	U7175
45	53	8	U3570
45	53	10	U3316
45	53	12	U0566
45	55	5	U2036
45	55	6	U0917
45	55	6.5	U0040
45	55	7	U1266
45	55	7.2	U6613
45	55	8	U5521
45	55	10	A0648
45	56	7	U2860
45	57	6	U6689
45	57.7	9.5	U2447
45	58	10	U6540
45	60	7.5	U9952
45	60	9	U9961
45	60	10	A0582
45	60	12	U8541
45	62	10	U7656
45	63	8	U9825
45	63	10	A0199
45	63	12	U3663
45	65	6.5	U1644
45	65	10	U0262
45	65	12	U0175
45	70	12	U4585

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Shaft diam.	Bore diam.	Width diam	Drawing no.
45	70	15.5	U1703
45	75	15	U5002
46	58	12	U0268
47	55	6	U7632
47	57	9	U7683
47	65	12	U5728
47.62	63.50	7.93	U4886
47.62	73.02	16.37	U4779
48	58	10	U0453
48	60	9	U5938
48	63	10	U2103
48	65	10	U7737
48	68	10	U1710
50	57	10	U4586
50	58	7.8/5	
50	58	8	U0629
50	60	5	U0163
50	60	6	U0918
50	60	7	U8129
50	60	7.2	U0474
50	60	8	U4155
50	60	10	U1633
50	60	11	U0961
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50	62	6.5	U9923
50	62	7	U9924

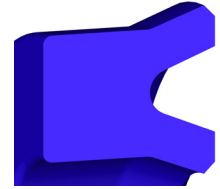
Shaft diam.	Bore diam.	Width diam	Drawing no.
50	62	9	U0455
50	62	10	U9928
50	62	12	U1885
50	63	6	U1038
50	63	6.5	U0406
50	63	8	U3473
50	63	9	U5907
50	63	10	U0239
50	63	12	U7382
50	64	9.5	U9897
50	65	7	U9960
50	65	7.5	U9959
50	65	8	U9576
50	65	10	U0001
50	65	12	U0437
50	68	10	U0464
50	70	10	A0585
50	70	12	A0486
50	70	13	U9974
50	70	18	U0084
50	75	12	U3864
50	80	10	U00032
50.6	66.67	7.93	U00272
50.8	60.32	4.76	U5729
50.8	60.32	6.35	U4685
50.8	60.32	7.93	U4682
50.8	60.32	9.52	U4686
50.8	63.5	7.93	U5008

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Shaft diam.	Bore diam.	Width diam	Drawing no.
50.8	63.5	9.52	U4689
50.8	66.67	9.52	U6634
50.8	66.67	14.28	U4907
50.80	66.67	14.28	U4907
50.8	69.85	9.52	U6633
50.8	69.85	12.7	U8645
51	66	12	U8468
51	66	14	U3862
51	76	14	U3648
51.2	63.9	9.53	U00230
52	62	12	U0905
52	70	10	U9905
52	72	10	U8079
53	63	5	U0164
53	63	6	U1267
53	63	6.5	U0218
53	63	10	U9473
53	63	12	U9940
53	65	6	U8256
53	65	9	U8249
53.97	63.5	6.35	U9900
54	64	6	U9939
54	70	12	U0407
54	72	10	U7259
55	60	10	
55	63	8	U8292
55	65	5	U0165
55	65	6	U1268

Shaft diam.	Bore diam.	Width diam	Drawing no.
55	65	8	U6716
55	65	10	U0062
55	65	11	U5804
55	65	12	A0599
55	70	7.5	U7756
55	70	9	U8943
55	70	10	U0978
55	70	12	A0672
55	75	10	U0534
55	75	12	U0007
55	80	12	U1176
55	80	18	U1649
55	85	12	U00034
56	66	6	U3318
56	66	6.5	U0688
56	66	6.7	A0658
56	66	8	U5886
56	66	10	U7492
56	70	12	U5636
56	71	10	U0960
56	76	12	U3319
57	63	8	U9912
57	63	10	U9911
57	73	8	U8294
57	73	11	U9904
57.15	69.85	9.52	U4690
57.15	73.02	9.52	U6637
57.15	76.20	9.52	U4890

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Shaft diam.	Bore diam.	Width diam	Drawing no.
57.16	66.75	5.25	U4778
58	68	6	U9947
58	78	12	U9977
60	68	8	U0725
60	68	10	U9914
60	68	12	U5730
60	70	5	U0166
60	70	6	U0916
60	70	7	U7412
60	70	8	U0207
60	70	10	U0035
60	70	12	A0483
60	71	7	U4264
60	72	9	U8481
60	72	11	U7249
60	72	13	U1105
60	75	8	U8075
60	75	10	U0647
60	75	12	U0080
60	80	6	U9980
60	80	8	U9881
60	80	10	A0665
60	80	12	A0594
60	80	18	A0583
60	85	10	U2896
60	85	12	U1020
60	85	12.5	U5915
60	90	10	U00035

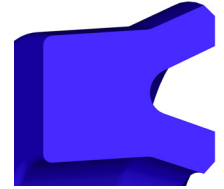
Shaft diam.	Bore diam.	Width diam	Drawing no.
60	90	15	U0976
60.32	73.02	9.52	U4998
60.45	76.2	14.28	U4993
62	72	12.5	U4961
62	75	10	U9926
62	78	12	U5716
63	73	5	U0167
63	73	6	U1269
63	73	7	U9946
63	73	8.5	U9945
63	73	10	U9943
63	75	9	U1056
63	75	10	U0085
63	75	12	U2151
63	78	10	U2666
63	80	7	U6399
63	80	9	U2275
63	80	10	U3300
63	80	12	U0689
63	80	16	U6901
63	83	12	U5004
63	83	15	U2972
63.50	76.20	9.52	U4884
63.5	79.37	7.93	U6638
63.5	82.55	9.52	U9642
63.5	82.55	12.7	U6095
63.50	88.90	19.05	U4877
64	77	12	U9933

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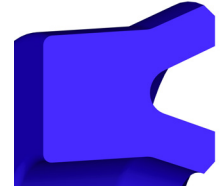
Shaft diam.	Bore diam.	Width diam	Drawing no.
64	80	8	U1405
64	80	12	U9903
65	75	6	U0915
65	75	8	U5519
65	75	10	U0281
65	75	12	U0081
65	77	9	U6617
65	78	10	U9932
65	80	7.5	U9958
65	80	9	U8944
65	80	10	U0029
65	80	11	U1319
65	80	12	A0590
65	85	10	A0606
65	85	12	A0200
65	85	15	U8065
65	90	12	U2714
65	90	15	U6723
65	90	18	U2823
66	76	8	U5914
66	77	10	U6748
66	77	12	U6749
66.67	79.37	10.49	U4780
66.67	82.55	7.93	U4906
67	74	10	U9910
67	75	10	U9913
67	77	6	U3322
67	77	10	U0959

Shaft diam.	Bore diam.	Width diam	Drawing no.
67	77	12	U0958
69.85	82.55	9.52	U4883
69.85	85.72	9.52	U4905
69.85	88.9	9.52	U00188
69.85	88.90	12.70	U4889
70	80	5	U0069
70	80	6	U0201
70	80	7	U2999
70	80	8	U0412
70	80	10	U0078
70	80	12	U1639
70	82	9	U6614
70	85	7	U9954
70	85	8	U8257
70	85	9	U8562
70	85	10	U2477
70	85	10.5	U0241
70	85	12	U0240
70	90	10	U0274
70	90	12	A0579
70	90	15	U6542
70	90	18	A0605
70	95	10	U00021
70	95	12	U0957
70	100	15	U4962
71	80	6	U1270
72	96	12	U5784
73.02	85.72	9.52	U4882

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Shaft diam.	Bore diam.	Width diam	Drawing no.
75	85	6	U1271
75	85	8	U6715
75	85	10	U0242
75	85	12	U0173
75	90	7.5	U1036
75	90	9	U2831
75	90	10	U0582
75	90	12	U0034
75	95	10	U2795
75	95	12	U0229
75	95	15	U7186
75	100	9	U00015
75	100	12	U6721
75	100	15	U1417
76	91	14	U3649
76.2	88.9	9.52	U4881
76.2	92.07	7.93	U5006
76.20	92.07	14.28	U4904
76.2	95.25	14.2	U5518
76.20	95.25	14.28	U4888
76.2	101.6	12.7	U3525
76.20	101.60	15.87	U4863
76.2	101.6	17	U9836
78	93	10.5	U5912
78	98	10	U9969
78	100	9	U9901
78	100	12	U9906
78	100	15	U2449

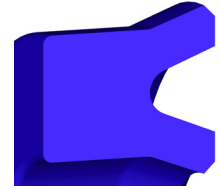
Shaft diam.	Bore diam.	Width diam	Drawing no.
80	88	8	U9915
80	90	5	A0604
80	90	6	U1272
80	90	8	U3993
80	90	10	U0030
80	90	12	U0646
80	95	9	U4267
80	95	10	U0581
80	95	12	U0039
80	100	10	U0168
80	100	12	U0142
80	100	13	U9975
80	100	15	U0577
80	105	12	U0541
80	108	12	U0690
82	92	10	U1035
82.55	95.25	9.52	U4880
82.55	101.6	9.52	U6974
83	100	10	U9921
85	95	6	U7306
85	95	8	U7591
85	95	8.5	U1034
85	95	10	U6722
85	95	12	U0445
85	100	7.5	U00067
85	100	8	U0532
85	100	9	U1033
85	100	10	U6618

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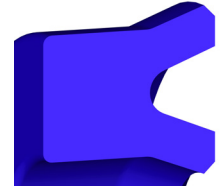
Shaft diam.	Bore diam.	Width diam	Drawing no.
85	100	11	U1024
85	100	12	A0521
85	105	10	U7666
85	105	12	U0243
85	105	15	U1782
85	105	18	U0430
85	105.5	12.3	U9760
85	110	12	U2344
85	110	15	U6665
85	115	15	U6097
85.72	104.77	14.78	U4775
88	96	8	U4963
88.9	101.6	9.52	U4879
88.90	101.60	9.52	U4879
88.90	104.77	9.52	U4903
88.9	107.95	12.7	U6629
88.90	114.30	9.52	U4865
89.69	102.39	10	U00211
90	100	5	U0169
90	100	7	U1977
90	100	8	U0452
90	100	9	U8470
90	100	10	U3584
90	100	12	U0112
90	100.5	6	U8350
90	102	9	U8354
90	102	10	U7650
90	105	9	U1273

Shaft diam.	Bore diam.	Width diam	Drawing no.
90	105	12	A0664
90	110	10	U0170
90	110	12	A0589
90	110	13	U9976
90	110	15	U1783
90	110	18	U1023
90	115	9	U00027
90	115	12	U7647
90	115	15	U0477
90	120	15	U5487
92.07	117.47	12.7	U4999
94	115	12	U5522
95	105	10	U1777
95	105	11	U5633
95	105	12	U0472
95	110	9	U4265
95	110	12	U0047
95	110	15	U3208
95	112	11	U5928
95	112	12	U0692
95	115	9	U9979
95	115	12	U0378
95	115	13	U9981
95	115	18	U1022
95	118	12	U00013
95.25	107.95	15.74	U4781
96	105	11	U7568
100	108	8	U5517

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Shaft diam.	Bore diam.	Width diam	Drawing no.
100	110	5	U0127
100	110	8	U5929
100	110	11	U0691
100	115	9	U1274
100	115	12	A0635
100	120	9	U9987
100	120	10	U0171
100	120	12	U0038
100	120	13	U9986
100	120	15	U0420
100	120	18	U2625
100	125	10	U6667
100	125	12	U0409
100	125	15	U0267
100	130	9	U00036
100	130	12	U1039
100	130	15	U3011
100.5	121.5	12.4	U9756
101.6	114.3	9.52	U7076
101.6	117.47	10.49	U4774
104.77	130.17	16.27	U00224
105	120	8	U3001
105	120	9	U9964
105	120	10	U6666
105	120	12	U0405
105	120	15	U0380
105	125	10	U0415
105	125	12	U0535

Shaft diam.	Bore diam.	Width diam	Drawing no.
105	125	14	U5282
105	125	15	U0244
105	125	16	U1275
106	120	8.5	U4598
107.95	127	12.7	U5007
107.95	133.35	12.7	U5001
108.36	123.82	14.28	U4995
110	120	9	U9951
110	122	9	U7652
110	125	9	U5579
110	125	10	U6229
110	125	12	A0653
110	125	15	U0533
110	130	10	U6668
110	130	12	U0296
110	130	15	U2144
110	130	18	U0970
110	135	9	U00022
110	135	13	U00026
110	135	18	U5930
110	140	9	U00037
110	140	12	U6673
110	140	15	U0573
112	125	9	U1276
113	125	9.5	U0971
114.3	133.35	9.52	U5005
115	125	15	U5926
115	126	15	U5925

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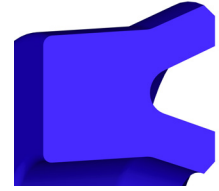
Shaft diam.	Bore diam.	Width diam	Drawing no.
115	127	9	U7658
115	130	9	U7752
115	130	10	U5285
115	130	12	U6669
115	130	15	A0593
115	135	9	U9985
115	135	12	U3474
115	135	15	U1021
115	140	9	U00024
115	140	12	U6671
115	140	15	U0972
115	140	18	U7344
115	145	12	U6672
115	145	15	U6679
115	145	18	U3822
117	127	8	U9950
118	133	9	U6660
120	130	5	U0128
120	130	9	U9949
120	130	14	U5923
120	132	9	U7649
120	135	9	U9963
120	135	12	U6670
120	135	15	U0973
120	140	10	U0568
120	140	12	U0391
120	140	14	
120	140	15	A0588

Shaft diam.	Bore diam.	Width diam	Drawing no.
120	140	16	U3909
120	145	15	U7383
120	150	15	U2274
123	135	9	U7657
125	135	10	U5632
125	137	9	U7653
125	140	9	U0914
125	140	10	U6933
125	140	11	U1040
125	140	12	U0576
125	140	15	U0269
125	141	18	U8064
125	145	9	U9983
125	145	12	U5658
125	145	15	U0381
125	145	18	U6087
125	150	9	U00025
125	150	12	U0574
125	150	15	U6677
125	155	12	U00038
125	155	15	U1790
127	142	6	U5044
130	140	9	U9948
130	145	9	U3325
130	145	12	U6678
130	145	13	U9962
130	145	15	U4964
130	150	9	U9984

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Shaft diam.	Bore diam.	Width diam	Drawing no.
130	150	12	U0575
130	150	15	U0192
130	150	16	U1279
130	155	9	U00023
130	160	15	U1784
130	160	18	U6375
133.35	146.05	15.74	U4782
135	145	8	U9956
135	145	10	U9790
135	150	9	U5791
135	150	12	U6676
135	150	15	U1053
135	155	8	U9994
135	155	12	U9993
135	155	15	U1791
135	160	9	U00039
135	160	12	U00040
135	160	15	U0433
136	150	9	U3326
139.7	155.57	10.49	U4773
140	150	5	U0126
140	150	9	U9938
140	150	15	U0693
140	152	9	U8355
140	155	9	U1280
140	155	15	U0974
140	160	6	U5634
140	160	9	U7107

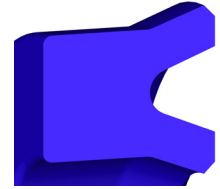
Shaft diam.	Bore diam.	Width diam	Drawing no.
140	160	10	U6656
140	160	12	U1041
140	160	15	A0655
140	160	16	U1281
140	165	9	U00041
140	165	12	U6675
140	165	15	U0245
140	170	9	U00042
140	170	12	U00044
140	170	15	U0578
140	170	18	U6685
145	160	9	U1282
145	160	15	U9953
145	165	9	U9991
145	165	12	U6686
145	165	15	U0706
145	170	9	U00045
145	170	12	U00046
146	160	9	U3583
150	170	9	U9990
150	170	15	U0451
150	170	16	U1283
150	170	18	U1177
150	170.5	16	U00171
150	180	9	U00033
150	180	12	U00047
150	180	15	U0579
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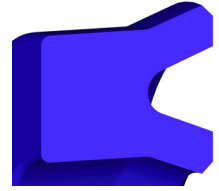
Shaft diam.	Bore diam.	Width diam	Drawing no.
155	170	9	U8066
155	175	15	U2829
155	180	12	U00048
155	180	15	U1785
160	175	7.5	U0125
160	175	8	U6196
160	175	9.5	U1284
160	180	9	U8273
160	180	15	U2341
160	185	12	U00049
160	185	15	U4002
160	185	16	U1285
160	190	15	U2854
160	190	19	U3543
160	200	18	U8081
165	180	9	U6980
165	185	12	U9998
165	185	15	U9997
165	190	15	U4003
165.10	190.50	14.28	U4861
168	180	9	U8356
170	185	9	U9393
170	190	9	U9988
170	190	15	U2611
170	195	12	U00043
170	195	15	U4988
170	200	15	U3018
170	200	18	U2830

Shaft diam.	Bore diam.	Width diam	Drawing no.
171.45	184.15	9.13	U4878
175	195	12	U9784
175	195	15	U00011
175	200	15	U2955
177.80	203.20	12.70	U4860
180	200	9	U00010
180	200	12	U7642
180	200	15	U0246
180	200	16	U5666
180	200	18	U7850
180	205	12	U00051
180	205	16	U1286
180	210	15	U00030
185	200	7.5	U0124
185	200	11	U8466
185	210	12	U00050
185	210	15	U5495
190	210	7.5	
190	210	12	U7491
190	210	15	U1042
190	215	12	U00031
190	215	15	U4989
190	220	15	U00052
195	215	12	U00009
195	215	15	U9966
200	220	10	U6855
200	220	15	U4431
200	225	18	U6653

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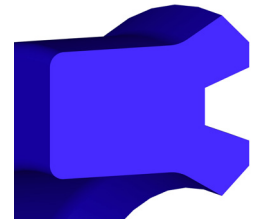
APPLICATION: ROD & PISTON
MATERIAL: PU
UNIT: METRIC / INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
200	230	15	U6978
200	230	17	U1043
203.2	228.6	19.05	U5000
205	235	18	U1044
210	230	12	U9394
210	230	15	U7258
210	235	18	U00088
210	240	18	U0707
220	240	8	
220	240	13	U9967
220	240	15	U7746
220	250	18	U0728
225	245	15	U6663
230	250	12	
230	250	15	U8068
250	270	13	U9968
250	280	22	U8948
270	300	15	U1755
270	300	18	U5597
270	300	19	
280	300	15	U8710

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.093	0.343	0.124	U1929
0.500	0.750	0.250	U6438
0.500	1.000	0.250	U6413
0.750	1.250	0.250	U6437
1.250	1.625	0.256	U1557
1.500	1.875	0.255	U2003
1.500	2.250	0.500	U5314
1.750	2.125	0.256	U1559
1.750	2.375	0.563	A0602
2.000	2.500	0.375	U1560
2.126	2.520	0.268	U0111
2.250	2.750	0.375	U2004
2.375	3.000	0.562	U0195
2.500	3.000	0.375	U1569
2.750	3.250	0.375	U1561
2.750	3.375	0.563	U4444
3.000	3.500	0.375	U1562
3.000	3.625	0.313	U4443
3.250	3.750	0.375	U1563
3.500	4.000	0.375	U1564
3.625	4.250	0.562	U0196
3.750	4.250	0.375	U1565
4.000	4.625	0.375	U1566
4.000	4.750	0.375	U6436
4.500	5.000	0.375	U6435
5.500	6.250	0.375	U6434

E3



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Shaft diam.	Bore diam.	Width diam	Drawing no.
6	14	5.7	U2909
8	16	5.7	U2910
10	16	5	U5164
10	18	5.5	U2911
10	18	5.7	U2912
12	18	4.5	U3437
12	20	5.5	U2913
12	20	5.7	U5479
14	22	5.5	U6108
14	22	5.7	U5478
16	22	4	U6122
16	24	6	U2993
18	25	5.1	U6012
18	26	6	U1217
18	28	5.8	U6379
18	28	7	U6137
20	26	5	U3010
20	26	5.5	U6138
20	27	5.7	U6139
20	28	5.8	U0543
20	28	6	U3562
20	28	7	U7095
20	30	7.2	U6005
20	30	8	U6140
20	30	10	U6109
21	27	4	U6107
22	28	4.5	U1656
22	28	5	U6105

Shaft diam.	Bore diam.	Width diam	Drawing no.
22	29	5	U6104
22	30	6	U1218
22	30	7	U1032
22	32	7	U4080
22	32	8	U6103
24	30	8	U1149
24	32	6	U1146
24	34	6	U5989
25	32	4	U6102
25	33	5.8	U4991
25	33	6	U1145
25	33	8	
25	35	5	U6110
25	35	5.8	U0435
25	35	7	U6111
25	35	8	U6112
25	35	9	U6113
25	35	10	U6114
25	36	5	U6115
25	38	10	U6116
28	36	5.8	U3305
28	36	8	U2084
28	38	7	U6117
30	38	5.8	U0438
30	38	6	U5480
30	38	8	U0538
30	40	7	U2076
30	40	10	U5962

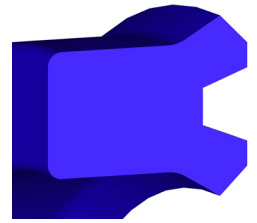
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APPLICATION: ROD & PISTON

MATERIAL: PU

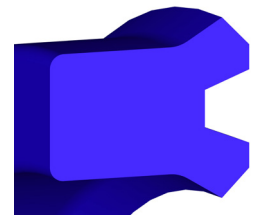
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
32	40	5.8	U5969
32	40	6	U2541
32	40	8	U1685
32	42	7	U5967
32	42	8	U0903
32	42	10	U5966
35	43	6	U2108
35	45	7	U0421
35	45	10	U5968
36	44	6	U1051
36	44	8	U1215
36	46	7	U5961
36	46	10	U5954
38	45	6	U2543
40	48	5.8	U1383
40	48	6	U1655
40	48	8	U2933
40	50	6	U5987
40	50	7	U5953
40	50	10	U0910
42	50	6	U5947
42	52	8.5	U8012
42	53	9	U5946
45	53	6	U5945
45	53	8	U1415
45	53	10	U5944
45	55	7	U2702
45	55	10	U5739

Shaft diam.	Bore diam.	Width diam	Drawing no.
46	54	8	U5943
50	58	8	U1214
50	60	7	U0285
50	60	10	U1416
50	62	8	U5942
50	62	10	U5951
50	65	10	U5952
55	63	8	U0422
55	65	7.2	U5940
55	65	7.5	U0276
55	65	10	U1219
55	65	12	U5941
56	66	6.5	U0413
56	66	10	U5955
56	71	8.5	U2544
60	68	6	U3478
60	68	8	U4013
60	68	13	U2545
60	70	7	U0427
60	70	7.2	U3207
60	70	7.5	U0275
60	70	10	U5986
60	70	12	U5985
60	72	9	U0423
61	69	8	U5995
63	71	8	U1691
63	75	8.5	U0418
63	75	10	U5924

E3



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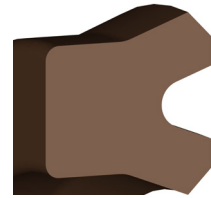
Shaft diam.	Bore diam.	Width diam	Drawing no.
65	73	8	U6026
65	75	12	U6025
65	77	9	U0283
66	80	10.5	U6027
68	76	8	U6028
70	78	8	U6029
70	80	7	U6035
70	80	10	U6036
70	80	12	U6037
70	82	9	U0551
71	79	8	U3112
72	78	6.5	U6010
75	85	7.2	U6038
75	85	12	U6054
76	84	8	U6061
78	86	13	U6062
78	93	10.5	U6055
79.75	85.99	6.5	U2918
80	88	8	U9677
80	90	7.2	U5939
80	90	12	U6083
80	90	14	U6070
81	89	8	U00083
85	95	5	U9178
85	95	7	U6071
85	97	9	U6069
87	95	8	U00103
88	96	8	U6075

Shaft diam.	Bore diam.	Width diam	Drawing no.
90	98	8	U6073
90	100	6.5	U6072
91	99	8	U6076
95	112	11.5	U6074
97	105	8	U00179
97	105	13	U6085
100	108	8	U3805
100	108	11.5	U7633
107	115	8	U6077
110	130	14.5	U8057
118	126	13	U6068
120	135	15	U6084
125	133	6.5	U6273
126	134	8	U6078
143	151	13	U6092
145	153	8	U6147
150	160	12.5	U6271
180	190	12.5	U6272

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Shaft diam.	Bore diam.	Width diam	Drawing no.
3.17	7.93	3.38	U8119
4	8	3	U00273
4	12	4	U8117
4.76	9.53	2.38	U8118
5	12	5	U1797
5.5	8.6	2.8	U1684
6	10	4	U5174
6	12	4	U1520
6	12	4	U1520
6	16	5	U8113
6	16	8	U9777
6.35	11.11	3.17	U7443
7.93	12.7	4.76	U7444
8	13	5	U5695
8	14	4	U8379
8	14	4.5	U5175
8	16	6	U8114
8	18	5	U8115
8	18	7.5	U8328
8	18	8	U9039
9	17	4	U5068
9	18	5	U0254
10	15	3	U5115
10	18	5	U0386
10	18	5	U0386
10	18	6	U5684
10	18	6	U5684
10	20	5	U8590

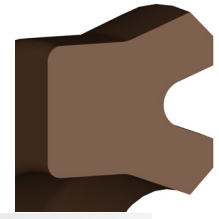
Shaft diam.	Bore diam.	Width diam	Drawing no.
10	20	8	U9847
10	25	7.5	U5070
10	25	8	U9418
10.1	14.9	3	U5114
11	17.46	4.76	U7670
12	18	4	U00119
12	18	5	U9408
12	18	6	U00120
12	19	4	U1138
12	19	4	U1138
12	19	5	U9726
12	20	4	U8116
12	20	5	U5916
12	20	7	U9038
12	22	5	U6040
12	22	7	U9040
12	22	10	U8658
12	24	6	U7191
12.7	19	3.2	U9017
13	23	5	U5069
13	25	6	U5071
14	22	5	U1802
14	22	5	U1802
14	22.6	5	22886
14	24	5	U8235
14	26	5	U00132
14	26	6	U5072
15	25	5	U7446

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Shaft diam.	Bore diam.	Width diam	Drawing no.
15	25	8	U6566
15	30	8	U9417
15	35	10	U7456
16	22	4	U9643
16	24	4	U8231
16	24	5	U1803
16	24	5	U1803
16	24	5.5	U7445
16	24	5.5	U7445
16	26	5	U7622
16	26	7	U2073
16	26	8	U9398
16	28	5	U00131
16	28	6	U8589
17	25	4	U7461
17	27	5	U9406
18	24	6.2	U5747
18	25	5	U1937
18	26	4	U6041
18	26	5	U0745
18	26	5.5	U6962
18	28	5.3	U5748
18	28	6	03855
18	28	6	03855
18	28	8	U1990
18	40	10	U7628
19	25	5	U7300
19	25.5	5.3	U8313

Shaft diam.	Bore diam.	Width diam	Drawing no.
19	27	5	U1936
19.05	31.76	6.35	U7455
20	26	5	U00121
20	26	6.5	U8377
20	27	5	U9404
20	28	4	U7507
20	28	5	U0716
20	30	5	U8055
20	30	7	U9753
20	30	8	U1991
20	30	10	
20	32	5	U7508
20	32	6	U7514
20	32	7	U9037
20	35	10	U1992
20	40	10	U7192
20	40	12	U1993
22	30	5	U1568
22	30	6.5	U6520
22	31	5	U3827
22	32	5	U1994
22	32	6	U1995
22	32	7	U9427
22	32	8	U3009
22	40	12	U1996
22.4	30	5	U4603
22.4	30	5	U4603
22.4	32.4	8	U1938

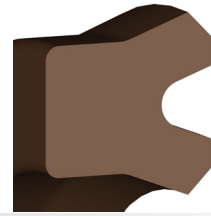
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Shaft diam.	Bore diam.	Width diam	Drawing no.
22.7	30.5	5	U9982
23	30.5	5	U9965
23.5	31.5	5	U1701
24	32	4	U7462
24	34	5	U8368
25	33	4	U8236
25	33	5	U0715
25	33	5.5	U9399
25	35	4.76	U8961
25	35	5	U5811
25	35	7	U9401
25	35	8	U1997
25	37	6	U7457
25	38	7	U9751
25	38	10	U1998
25	40	10	U2385
26	38	6	U7458
27	40	8	U8056
28	34	5	U9752
28	34	6	U9750
28	34	7	U9773
28	35.5	5	U1934
28	36	5	U00122
28	36	5.5	U00128
28	38	5	U3811
28	38	7	U9428
28	40	6	U8237
28	40	9.5	A0307

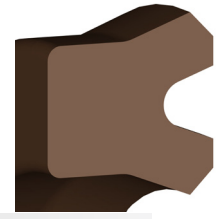
Shaft diam.	Bore diam.	Width diam	Drawing no.
28	40	10	U7278
28	48	10	U7530
30	37	7	U9403
30	38	5.4	U9729
30	38	7	U00123
30	39	5.5	U8432
30	40	5	U7459
30	40	6	U0713
30	40	6	U0713
30	40	6	U0713
30	40	6	U0713
30	40	7	U8519
30	40	8	U8520
30	42	8	U9429
30	42	10	U5087
30	43	9	U8423
30	43	10	U4038
30	45	10	U1933
30	50	10	U8253
31.5	41.5	6	U9485
32	40	3.1	U0075
32	40	4	U8246
32	40	5	U7810
32	40	8	U9409
32	41	6	U8627
32	42	7	U7391
32	48	10	U6731
32	52	10	U7451

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 UNIT: METRIC



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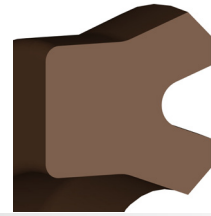
Shaft diam.	Bore diam.	Width diam	Drawing no.
35	45	5	U7460
35	45	6	U2106
35	45	6.1	U0562
35	45	7	U7246
35	45	8	U8521
35	45	10	U1867
35	47	6	U8234
35	50	10	U1910
35.5	45	6	U8125
37.79	49.47	6.98	U8960
38	50	6	U7471
40	50	5	U4138
40	50	6	U0714
40	50	7	U7450
40	50	8	U8504
40	50	10	U8503
40	52	6	U8073
40	52.5	8.3	U5627
40	52.75	8.3	U1819
40	55	10	U1911
40	55	11.5	A0308
40	60	10	U7453
40	60	12	U2001
42	55	8	U1939
44	56	6	U7624
45	55	5	U7452
45	55	6	U1804
45	55	7	U8505

Shaft diam.	Bore diam.	Width diam	Drawing no.
45	55	8	U8508
45	55	10	U1796
45	56	7	U00071
45	57	6	U7618
45	57	8	U9410
45	57	10	U9411
45	60	10	U1912
45	65	12	U1999
46	56	5	U7531
46	58	6	U8252
47.63	63.50	7.43	U8244
48	60	6	U8245
49.21	69.85	9.52	U8240
50	60	6	U1389
50	60	7	U8507
50	60	10	U8506
50	63	8	U3866
50	63	10	U8515
50	65	7.5	U8369
50	65	10	U1913
50	70	12	U2000
52	62	7	U7620
52	72	10	U8250
53	63	5	U7432
53	63	6	U1390
53	63	6	U1390
53	65	6	U7433
54	70	12	U5073

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Shaft diam.	Bore diam.	Width diam	Drawing no.
55	65	6	U1818
55	70	9	U3121
55	70	10	U8517
55	70	12	U8513
56	66	6	U8329
57	68	6.5	U8283
57	73.5	8	U5551
60	70	6	U1391
60	70	7	U8512
60	75	7.5	U8374
60	75	10	U8577
60	75	12	U5074
60	80	8	U9416
60	80	10	U5081
60	80	12	U1808
63	73	6	U00124
65	75	5	U8372
65	75	6	U1805
65	78	10	U9414
65	80	7.5	U8241
65	80	10	U1935
65	85	10	U4909
65	85	12	U2234
70	80	5	U6952
70	80	6	U1392
70	80	8	U9779
70	83	9	U00125
70	85	9	U1813

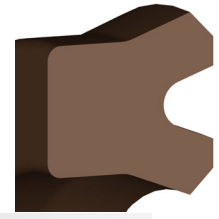
Shaft diam.	Bore diam.	Width diam	Drawing no.
70	85	10	U8576
70	85	12	U8578
70	90	10	U7497
70	90	12	U1809
70	95	9	U8514
70	95	10	U8579
70	95	12	U8580
71	80	6	U2376
75	85	6	U1806
75	95	10	U7426
75	100	15	U7415
80	90	6	U1807
80	95	9	U1814
80	95	10	U8586
80	95	12	U8585
80	100	10	U7427
80	100	12	U1810
82	102	10	U8483
85	95	6	U1393
85	95	7	U8511
85	100	7.5	U7434
85	100	9	U1895
85	100	12	
85	105	12	U6567
88.7	101	6.5	U7284
90	100	6	U7623
90	100	7	U7763
90	105	9	U3122

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APPLICATION: ROD & PISTON
 MATERIAL: NBR / FKM
 UNIT: METRIC



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Shaft diam.	Bore diam.	Width diam	Drawing no.
90	110	10	U7496
90	110	12	U1811
90	110	15	U9689
90	120	15	U7606
95	110	9	U6640
95	115	12	U8523
100	115	9	U8593
100	120	12	U1812
100	120	15	U8532
100	125	12	U7417
100	125	15	U9690
101.6	120.65	11.11	U7735
105	120	9	U3728
105	125	15	U7332
106	120	8.5	U2730
110	125	9	U2377
110	130	12	U8584
112	125	8.5	U1394
115	130	9	U4601
115	135	12	U8522
118	133	9	U8551
120	135	9	U8866
120	140	12	U1815
120	140	15	U1816
120	150	15	U7490
125	140	9	U3727
125	150	19	U3536
127	146.05	9.53	U8587

Shaft diam.	Bore diam.	Width diam	Drawing no.
130	145	9	U3726
130	150	12	U9415
130	150	15	U8554
130	160	15	U7418
133.35	158.8	12.7	U7495
135	150	10	U8555
135	155	15	U9774
136	150	8.5	U1395
140	155	9	U4600
140	160	12	U00127
140	170	18	U8699
145	160	9	U3725
145	175	15	U8575
149	160	9	U7764
150	170	12	U8552
150	180	15	U7419
155	170	9	U8556
155	180	16	U8550
155	200	35	U1567
160	185	15	U00126
160	200	20	U7420
165	180	9	U7645
165	185	16	U9749
170	190	12	U8868
175	190	12	U9780
175	200	19	
180	200	12	U1817
180	200	14	U8121

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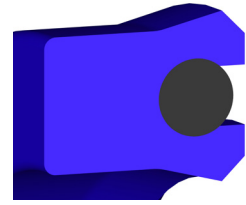
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APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



E3

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.875	1.249	0.187	U4606
0.937	1.437	0.250	U3374
1.000	1.250	0.125	U5030
1.000	1.250	0.156	U5988
1.000	1.250	0.187	U5023
1.000	1.250	0.250	U5204
1.000	1.312	0.156	U3497
1.000	1.312	0.234	U4161
1.000	1.374	0.187	U4911
1.000	1.374	0.250	U4166
1.000	1.374	0.312	U7585
1.000	1.374	0.375	U9222
1.000	1.500	0.250	U6417
1.000	1.500	0.375	U4912
1.000	1.624	0.312	U3618
1.000	1.750	0.375	U3487
1.062	1.562	0.375	U3951
1.125	1.375	0.125	U9601
1.125	1.375	0.187	U8975
1.125	1.375	0.250	U5057
1.125	1.499	0.250	U9030
1.125	1.499	0.312	U9262
1.125	1.499	0.375	U4589
1.125	1.500	0.187	U5375
1.125	1.625	0.375	U3386
1.187	1.500	0.156	U5621
1.187	1.561	0.250	U9426
1.250	1.500	0.187	U8535

Shaft diam.	Bore diam.	Width diam	Drawing no.
1.250	1.624	0.187	U9334
1.250	1.624	0.250	U3501
1.250	1.624	0.312	U7086
1.250	1.625	0.375	U5440
1.250	1.750	0.250	U5027
1.250	1.750	0.375	U5292
1.250	1.874	0.375	U4372
1.250	1.874	0.500	U3500
1.250	2.000	0.500	U5601
1.250	2.000	0.625	U3913
1.312	1.562	0.125	U6899
1.312	1.562	0.375	U3942
1.375	1.625	0.125	U9735
1.375	1.625	0.187	U9441
1.375	1.625	0.250	U3128
1.375	1.749	0.187	U4920
1.375	1.749	0.375	U4031
1.375	1.750	0.250	U5808
1.375	1.750	0.312	U4982
1.375	1.875	0.250	U3365
1.375	1.875	0.375	U5171
1.375	1.999	0.375	U3615
1.375	2.000	0.500	U6461
1.417	1.732	0.312	U5141
1.437	1.687	0.250	U3943
1.500	1.750	0.125	U5168
1.500	1.750	0.187	U3934
1.500	1.750	0.250	U3129

NAK STANDARD

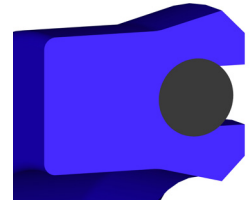
HB

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
1.500	1.812	0.312	U7000
1.500	1.874	0.187	U5139
1.500	1.874	0.250	U5024
1.500	1.874	0.312	U3134
1.500	1.874	0.375	U4799
1.500	2.000	0.250	U5436
1.500	2.000	0.312	U5620
1.500	2.000	0.375	U5409
1.500	2.000	0.500	U7911
1.500	2.124	0.312	U3800
1.500	2.124	0.375	U3616
1.500	2.125	0.500	U6388
1.500	2.500	0.750	U5795
1.625	1.875	0.250	U6065
1.625	1.999	0.250	U3404
1.625	2.000	0.187	U5656
1.625	2.000	0.312	U5496
1.625	2.000	0.375	U5605
1.625	2.125	0.375	U6513
1.625	2.249	0.500	U3594
1.625	2.250	0.375	U7177
1.750	2.000	0.250	U6508
1.750	2.124	0.187	U5059
1.750	2.124	0.250	U3524
1.750	2.124	0.312	U3368
1.750	2.124	0.375	U3586
1.750	2.250	0.250	U3613
1.750	2.250	0.312	U9220

Shaft diam.	Bore diam.	Width diam	Drawing no.
1.750	2.250	0.375	U9369
1.750	2.374	0.375	U3387
1.750	2.375	0.500	U5445
1.750	2.500	0.375	U4075
1.750	2.500	0.625	U5463
1.875	2.125	0.125	U4755
1.875	2.249	0.187	U4167
1.875	2.249	0.312	U4593
1.875	2.250	0.375	U6395
1.875	2.375	0.375	U3598
1.875	2.500	0.375	U5432
1.937	2.311	0.281	U3969
2.000	2.374	0.250	U9024
2.000	2.374	0.312	U4798
2.000	2.374	0.375	U5082
2.000	2.375	0.187	U5169
2.000	2.500	0.250	U3382
2.000	2.500	0.312	U5890
2.000	2.500	0.375	U4200
2.000	2.624	0.375	U3620
2.000	2.624	0.500	U3535
2.000	2.625	0.312	U5677
2.000	3.000	0.750	U6418
2.125	2.375	0.250	U6900
2.125	2.499	0.250	U9782
2.125	2.499	0.312	U9430
2.125	2.500	0.187	U5408
2.125	2.500	0.375	U5574

E3

NAK STANDARD

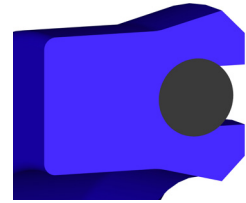
HB

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



E3

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.125	2.625	0.250	U3375
2.125	2.625	0.375	U6503
2.125	3.125	0.500	U3690
2.250	2.500	0.250	U3495
2.250	2.624	0.187	U3614
2.250	2.624	0.312	U3957
2.250	2.625	0.375	U5350
2.250	2.750	0.375	U5609
2.250	2.875	0.500	U6384
2.250	3.000	0.375	U3463
2.250	3.000	0.625	U6472
2.250	3.124	0.625	U4018
2.375	2.749	0.187	U3971
2.375	2.749	0.266	U3972
2.375	2.749	0.500	U3947
2.375	2.750	0.250	U5798
2.375	2.750	0.375	U5647
2.375	2.875	0.375	U3383
2.375	2.999	0.500	U3681
2.375	3.000	0.312	U5607
2.375	3.125	0.375	U4076
2.500	2.750	0.250	U3593
2.500	2.874	0.187	U3457
2.500	2.874	0.312	U4570
2.500	2.875	0.250	U5648
2.500	2.875	0.375	U5346
2.500	3.000	0.250	U5061
2.500	3.000	0.312	U3139

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.500	3.000	0.375	U5062
2.500	3.000	0.500	U4987
2.500	3.125	0.312	U7794
2.500	3.125	0.375	U7604
2.500	3.125	0.500	U6493
2.500	3.250	0.375	U3364
2.500	3.250	0.500	U5460
2.500	3.500	0.500	U3914
2.625	2.999	0.281	U3397
2.625	3.000	0.250	U6467
2.625	3.000	0.375	U6500
2.625	3.125	0.375	U6514
2.625	3.375	0.625	U5650
2.750	3.000	0.250	U3392
2.750	3.000	0.375	U9520
2.750	3.124	0.281	U3458
2.750	3.125	0.375	U6352
2.750	3.250	0.250	U5657
2.750	3.250	0.375	U5334
2.750	3.250	0.500	U5120
2.750	3.374	0.312	U3956
2.750	3.375	0.375	U5596
2.750	3.375	0.500	U6494
2.750	3.500	0.500	U5573
2.750	3.500	0.625	U6497
2.875	3.249	0.250	U4588
2.875	3.250	0.375	U5336
2.875	3.375	0.375	U4590

NAK STANDARD

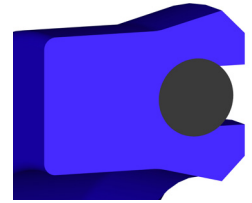
HB

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
2.875	3.500	0.312	U8348
2.875	3.500	0.500	U6495
3.000	3.250	0.250	U4645
3.000	3.374	0.187	U3389
3.000	3.374	0.312	U3135
3.000	3.375	0.250	U9744
3.000	3.375	0.375	U5455
3.000	3.500	0.250	U3693
3.000	3.500	0.375	U5476
3.000	3.500	0.500	U5442
3.000	3.624	0.500	U3385
3.000	3.750	0.500	U9219
3.000	3.750	0.562	U4471
3.000	3.750	0.625	U8538
3.125	3.499	0.187	U8977
3.125	3.499	0.375	U4984
3.125	3.500	0.250	U00200
3.125	3.500	0.312	U6064
3.125	3.625	0.375	U4032
3.250	3.500	0.139	U4072
3.250	3.624	0.375	U3136
3.250	3.750	0.375	U6492
3.250	3.750	0.500	U4808
3.250	3.875	0.500	U6337
3.250	4.000	0.500	U3141
3.250	4.000	0.562	U4870
3.250	4.000	0.625	U6382
3.250	4.250	0.500	U4246

Shaft diam.	Bore diam.	Width diam	Drawing no.
3.375	3.749	0.187	U3449
3.375	3.749	0.250	U3371
3.375	3.875	0.375	U4591
3.375	3.999	0.625	U3959
3.375	4.000	0.312	U5511
3.375	4.000	0.500	U6496
3.375	4.125	0.625	U8534
3.375	4.375	0.625	U6484
3.500	3.875	0.375	U9014
3.500	4.000	0.250	U5065
3.500	4.000	0.312	U3974
3.500	4.000	0.375	U3695
3.500	4.000	0.500	U9031
3.500	4.000	0.625	U5790
3.500	4.250	0.500	U3686
3.500	4.250	0.562	U3679
3.500	4.250	0.625	U6389
3.625	3.875	0.187	U9446
3.625	3.999	0.250	U3450
3.625	3.999	0.375	U3082
3.625	4.000	0.187	U9612
3.625	4.250	0.500	U9234
3.625	4.375	0.375	U3961
3.625	4.375	0.625	U5434
3.750	4.250	0.250	U3723
3.750	4.250	0.375	U5892
3.750	4.250	0.562	U4128
3.750	4.500	0.625	U3143

E3

NAK STANDARD

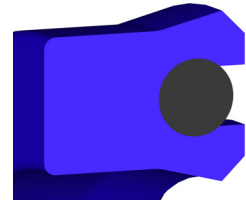
HB

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



E3

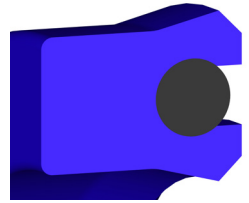
Shaft diam.	Bore diam.	Width diam	Drawing no.
3.750	4.750	0.750	U3966
3.875	4.249	0.375	U3716
4.000	4.374	0.250	U8927
4.000	4.374	0.375	U4379
4.000	4.500	0.250	U9484
4.000	4.500	0.375	U5443
4.000	4.500	0.500	U00170
4.000	4.500	0.562	U6392
4.000	4.624	0.500	U9867
4.000	4.625	0.562	U6353
4.000	4.750	0.500	U9043
4.000	4.750	0.625	U3734
4.000	4.874	0.625	U3907
4.000	5.000	0.500	U4594
4.125	4.499	0.375	U3137
4.125	4.625	0.562	U3731
4.125	4.749	0.562	U00133
4.125	4.875	0.750	U3733
4.250	4.624	0.281	U4753
4.250	4.624	0.375	U4120
4.250	4.750	0.375	U6334
4.250	4.750	0.562	U9235
4.250	5.000	0.375	U3962
4.250	5.000	0.500	U9053
4.250	5.000	0.562	U4568
4.250	5.000	0.625	U6385
4.375	4.875	0.250	U3775
4.375	4.875	0.375	U4021

Shaft diam.	Bore diam.	Width diam	Drawing no.
4.375	4.875	0.562	U3952
4.375	4.999	0.312	U00134
4.375	4.999	0.562	U9054
4.500	4.874	0.375	U3948
4.500	5.000	0.250	U3776
4.500	5.000	0.375	U3732
4.500	5.000	0.500	U4129
4.500	5.000	0.562	U5338
4.500	5.000	0.625	U9013
4.500	5.500	0.500	U3453
4.625	5.125	0.250	U3777
4.625	5.375	0.625	U3144
4.750	5.250	0.562	U3795
4.750	5.500	0.625	U6381
4.875	5.625	0.625	U4244
5.000	5.374	0.375	U9198
5.000	5.500	0.375	U8979
5.000	5.500	0.562	U3741
5.000	5.624	0.625	U3912
5.000	5.750	0.500	U3451
5.000	5.750	0.625	U6481
5.000	6.000	0.500	U3454
5.000	6.000	0.750	U3124
5.250	5.750	0.375	U8976
5.250	5.874	0.625	U4071
5.250	6.000	0.500	U6482
5.250	6.000	0.562	U4472
5.250	6.000	0.625	U8889

NAK STANDARD

HB

APPLICATION: ROD & PISTON
 MATERIAL: U PACKING: PU
 O-RING: NBR
 UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
5.375	5.999	0.312	U4037
5.500	5.874	0.375	U9025
5.500	6.000	0.250	U9065
5.500	6.000	0.375	U3910
5.500	6.000	0.500	U5602
5.500	6.000	0.562	U3763
5.500	6.125	0.625	U7267
5.500	6.250	0.625	U3764
5.500	6.500	0.500	U3455
5.500	6.500	0.750	U4125
5.625	6.000	0.375	U7018
5.625	6.125	0.250	U3954
5.750	6.124	0.375	U4750
5.750	6.250	0.562	U3748
5.750	6.500	0.375	U3964
6.000	6.374	0.375	U3753
6.000	6.500	0.250	U3778
6.000	6.500	0.375	U3367
6.000	6.500	0.562	U4079
6.000	6.624	0.625	U4131
6.000	6.750	0.500	U3750
6.000	6.750	0.625	U3796
6.000	7.000	0.750	U6362
6.250	6.750	0.375	U3955
6.250	7.000	0.375	U9171
6.250	7.000	0.500	U3071
6.250	7.000	0.625	U3766
6.250	7.250	0.750	U3461

Shaft diam.	Bore diam.	Width diam	Drawing no.
6.375	6.999	0.312	U3980
6.500	7.000	0.250	U7909
6.500	7.000	0.375	U9044
6.500	7.000	0.562	U6348
6.500	7.500	0.750	U9042
6.750	7.250	0.562	U4130
6.750	7.500	0.625	U3758
7.000	7.500	0.250	U3779
7.000	7.750	0.625	U3965
7.000	8.000	0.750	U6380
7.250	8.000	0.625	U4134
7.375	7.999	0.312	U4491
7.500	8.000	0.500	U5585
7.500	8.500	0.750	U6754
7.875	8.500	0.625	U5406
8.125	8.625	0.562	U5352
8.500	9.250	0.625	U9548
9.000	10.000	0.750	U9602

NAK STANDARD

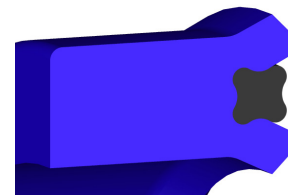
HBX

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: METRIC / INCH



E3

Shaft diam.	Bore diam.	Width diam.	Drawing no.
18	26	5	U6850
25	33	8	U7117
35	43	6.5	U6474
40	50	8	U7198
45	53	8	U7237
65	80	10	U5286

Shaft diam.	Bore diam.	Width diam.	Drawing no.
0.625	0.999	0.375	U3186
1.000	1.374	0.312	U3185
1.000	1.500	0.375	U3177
1.500	1.875	0.187	U5275
1.500	1.875	0.375	U6531
1.750	2.250	0.375	U3176
2.000	2.374	0.375	U3181
3.500	4.000	0.375	U6532

NAK STANDARD

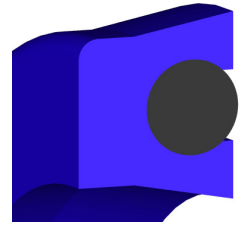
HS

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
0.187	0.437	0.125	U3490
0.250	0.500	0.125	U6499
0.250	0.624	0.187	U3131
0.312	0.562	0.125	U5431
0.312	0.748	0.218	U7089
0.375	0.625	0.125	U3126
0.375	0.749	0.187	U3491
0.375	0.875	0.250	U4190
0.437	0.687	0.125	U3395
0.437	0.811	0.187	U3132
0.500	0.750	0.125	U5649
0.500	0.874	0.187	U5165
0.500	1.000	0.250	U3646
0.562	0.812	0.125	U5095
0.625	0.875	0.125	U5060
0.625	1.000	0.187	U6486
0.656	1.030	0.187	U4756
0.687	1.062	0.187	U6518
0.687	1.187	0.250	U00220
0.750	1.000	0.125	U6507
0.750	1.062	0.156	U7405
0.750	1.124	0.187	U4977
0.750	1.250	0.250	U9315
0.812	1.062	0.125	U4609
0.812	1.562	0.375	U7634
0.875	1.125	0.125	U5439
0.875	1.250	0.187	U6487
0.875	1.500	0.312	U7037

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.937	1.249	0.156	U00235
0.937	1.437	0.250	U9027
1.000	1.250	0.125	U9941
1.000	1.312	0.156	U6965
1.000	1.374	0.187	U3528
1.000	1.500	0.250	U3602
1.000	2.000	0.500	U6580
1.125	1.375	0.125	U3127
1.125	1.437	0.156	U7268
1.125	1.500	0.187	U7049
1.125	1.625	0.250	U6349
1.125	1.875	0.375	U4074
1.187	1.437	0.125	U4656
1.187	1.500	0.156	U5847
1.187	1.561	0.187	U9289
1.187	1.687	0.250	U5462
1.187	1.811	0.312	U5147
1.250	1.500	0.125	U5121
1.250	1.562	0.156	U6465
1.250	1.624	0.187	U3376
1.250	1.750	0.250	U5173
1.250	2.000	0.375	U5618
1.312	2.062	0.375	U00240
1.375	1.625	0.125	U9052
1.375	1.687	0.156	U6466
1.375	1.750	0.187	U6488
1.375	1.875	0.250	U9333
1.375	1.999	0.312	U3595

E3

NAK STANDARD

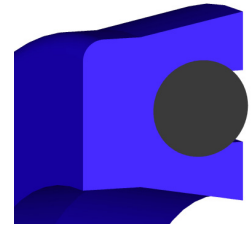
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APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



E3

Shaft diam.	Bore diam.	Width diam	Drawing no.
1.500	1.750	0.125	U9288
1.500	1.875	0.187	U5415
1.500	2.000	0.250	U5138
1.500	2.250	0.375	U6471
1.625	1.999	0.187	U3589
1.625	2.125	0.250	U3603
1.625	2.249	0.312	U3496
1.750	2.124	0.187	U6718
1.750	2.375	0.312	U6350
1.750	2.624	0.437	U4245
1.875	2.125	0.125	U5891
1.875	2.249	0.187	U3488
1.875	2.375	0.250	U3604
1.875	2.499	0.312	U3400
1.929	2.283	0.197	U6818
2.000	2.375	0.187	U6511
2.000	2.500	0.250	U4806
2.000	2.625	0.312	U5889
2.000	2.750	0.375	U6363
2.000	3.000	0.500	U6359
2.125	2.499	0.187	U8989
2.125	2.625	0.250	U3605
2.125	2.749	0.312	U4035
2.125	2.875	0.375	U3688
2.250	2.625	0.187	U6391
2.250	2.750	0.250	U6491
2.250	2.875	0.312	U6333
2.250	3.000	0.375	U3715

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.375	2.750	0.187	U9175
2.375	2.875	0.250	U3704
2.500	2.874	0.187	U5025
2.500	3.000	0.250	U9273
2.500	3.125	0.312	U5571
2.500	3.250	0.375	U5846
2.500	3.375	0.437	U5964
2.625	2.999	0.187	U9023
2.625	3.125	0.250	U3703
2.625	3.375	0.375	U3493
2.750	3.124	0.187	U9176
2.750	3.250	0.250	U5651
2.750	3.500	0.375	U4122
2.750	4.000	0.625	U4030
2.812	3.248	0.218	U5126
2.875	3.250	0.187	U9019
2.875	3.500	0.312	U5600
3.000	3.374	0.187	U4034
3.000	3.500	0.250	U3456
3.000	3.750	0.375	U5064
3.000	4.000	0.500	U6338
3.125	3.500	0.187	U7750
3.125	3.625	0.250	U5083
3.125	3.875	0.375	U4377
3.250	3.750	0.250	U3702
3.250	4.000	0.375	U6498
3.250	4.500	0.625	U5593
3.375	4.000	0.312	U9652

NAK STANDARD

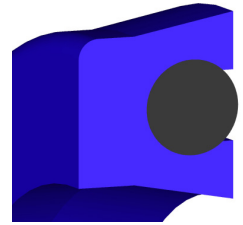
HS

APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
3.500	3.875	0.187	U6335
3.500	4.000	0.250	U3718
3.500	4.250	0.375	U7050
3.500	4.500	0.500	U9880
3.625	4.000	0.187	U5441
3.625	4.125	0.250	U3700
3.625	4.375	0.375	U4796
3.625	4.499	0.375	U4029
3.750	4.250	0.250	U3719
3.750	4.500	0.375	U9274
3.750	4.750	0.500	U3730
3.875	4.249	0.187	U4069
3.875	4.499	0.312	U3081
4.000	4.374	0.187	U4164
4.000	4.500	0.250	U6365
4.000	4.750	0.375	U6360
4.000	5.000	0.500	U6361
4.062	4.812	0.375	U3906
4.125	4.499	0.187	U3794
4.125	5.125	0.500	U3390
4.250	4.624	0.187	U9221
4.250	4.750	0.250	U9740
4.250	5.000	0.375	U3363
4.250	5.250	0.500	U5592
4.437	4.999	0.281	U4059
4.500	4.875	0.187	U5572
4.500	5.000	0.250	U5404
4.500	5.250	0.375	U3744

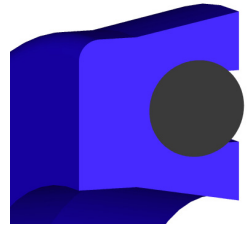
Shaft diam.	Bore diam.	Width diam	Drawing no.
4.500	5.500	0.500	U6330
4.500	5.750	0.625	U5965
4.625	5.125	0.250	U3747
4.750	5.124	0.187	U00238
4.750	5.500	0.375	U3992
4.750	6.000	0.625	U4033
5.000	5.500	0.250	U5492
5.000	5.750	0.375	U4036
5.000	6.000	0.500	U9051
5.250	5.750	0.250	U5444
5.250	6.000	0.375	U9050
5.375	5.750	0.187	U6459
5.375	5.999	0.312	U4514
5.437	5.999	0.281	U4488
5.500	6.000	0.250	U5447
5.500	6.250	0.375	U5435
5.500	6.500	0.500	U5410
5.750	6.250	0.250	U3767
5.875	6.375	0.250	U5494
6.000	6.500	0.250	U9016
6.250	6.750	0.250	U3768
6.250	7.000	0.375	U8966
6.500	7.000	0.250	U5448
7.000	8.250	0.625	U6579
7.125	7.625	0.250	U7014
7.250	8.000	0.375	U5407
7.375	8.000	0.312	U6355
7.500	8.000	0.250	U5405

E3

NAK STANDARD

HS

APPLICATION: ROD & PISTON
MATERIAL: U PACKING: PU
O-RING: NBR
UNIT: INCH



E3

Shaft diam.	Bore diam.	Width diam	Drawing no.
8.000	8.500	0.250	U7013
8.250	8.750	0.250	U6726
8.250	9.000	0.375	U9608
9.250	10.000	0.375	U9015
9.750	10.500	0.375	U9659
10.000	11.000	0.500	U9290

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

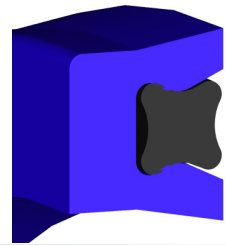
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APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
2.000	2.500	0.250	U3905
3.375	3.750	0.187	U9250

Shaft diam.	Bore diam.	Width diam	Drawing no.

E3

NAK STANDARD

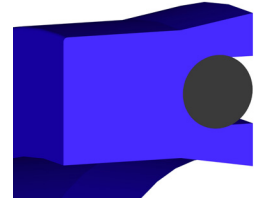
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APPLICATION: ROD & PISTON

MATERIAL: U PACKING: PU

O-RING: NBR

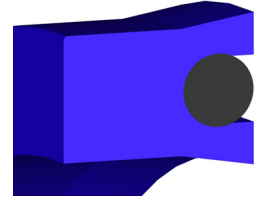
UNIT: INCH



E3

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.250	0.500	0.250	U6463
0.375	0.875	0.375	U6973
0.500	0.750	0.250	U5148
0.625	0.875	0.250	U4571
0.750	1.000	0.250	U6908
0.875	1.125	0.250	U5226
1.000	1.374	0.250	U3761
1.125	1.375	0.250	U8974
1.125	1.500	0.312	U5766
1.250	1.500	0.250	U5370
1.250	1.624	0.312	U3133
1.250	1.750	0.375	U3349
1.375	1.625	0.250	U9009
1.375	1.749	0.312	U3489
1.375	1.750	0.375	U7047
1.500	1.875	0.375	U6489
1.500	2.000	0.375	U3350
1.562	1.936	0.250	U3588
1.625	1.875	0.250	U7406
1.625	1.999	0.312	U3373
1.625	1.999	0.375	U9547
1.625	2.000	0.250	U5289
1.750	2.124	0.375	U9026
1.750	2.250	0.375	U00080
1.750	2.250	0.500	U6907
1.875	2.249	0.250	U4644
1.875	2.249	0.375	U4162
1.875	2.625	0.625	U9010

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.000	2.375	0.375	U5619
2.000	2.500	0.375	U3632
2.000	2.624	0.500	U9170
2.000	2.750	0.625	U5094
2.125	2.499	0.375	U3970
2.125	2.625	0.375	U3611
2.125	2.749	0.500	U3459
2.250	2.750	0.375	U6460
2.500	3.000	0.375	U5063
2.625	3.000	0.250	U00141
2.625	3.000	0.375	U6347
2.750	3.250	0.375	U3698
3.000	3.375	0.375	U6364
3.000	3.500	0.375	U5362
3.125	3.500	0.375	U6354
3.125	3.625	0.375	U3720
3.500	4.000	0.312	U3696
3.500	4.000	0.375	U5498
3.625	4.125	0.375	U3717
3.750	4.250	0.375	U3393
3.750	4.500	0.625	U5497
4.000	4.500	0.375	U3739
4.000	4.500	0.562	U3770
4.000	4.624	0.562	U4124
4.250	4.750	0.375	U3771
4.375	5.125	0.625	U3765
4.500	5.000	0.312	U3737
4.500	5.000	0.375	U6386

NAK STANDARD**HD****APPLICATION: ROD & PISTON****MATERIAL: U PACKING: PU****O-RING: NBR****UNIT: INCH**

Shaft diam.	Bore diam.	Width diam.	Drawing no.
4.500	5.000	0.562	U3736
4.500	5.250	0.625	U3743
4.875	5.375	0.562	U3742
5.000	5.374	0.281	U3745
5.000	5.500	0.375	U5503
5.000	6.000	0.750	U3394
5.250	6.000	0.500	U9382
5.500	6.000	0.375	U5568
5.500	6.000	0.562	U3754
5.875	6.375	0.562	U4648
6.000	6.500	0.562	U3772
6.000	6.750	0.625	U5151
6.500	7.000	0.375	U3773
6.500	7.500	0.750	U00183
6.750	7.500	0.562	U6727
7.000	7.500	0.375	U3760
7.000	7.750	0.625	U3759
7.000	8.000	0.750	U5499
8.750	9.500	0.625	U9199
9.250	10.000	0.500	U9568

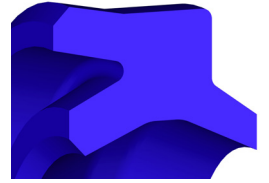
Shaft diam.	Bore diam.	Width diam.	Drawing no.

E3

NAK STANDARD

WP1

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: MRYTIC



E4

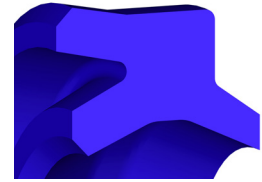
Shaft diam.	Bore diam.	Width diam	Drawing no.
8	11.5	2.5/3.2	U00222
10	16	3.6/4.8	U6590
10	18	5/6.5	U4063
12	18	3.6/4.8	A0601
13	20	5/6.5	U4064
14	20	3.6/4.8	U3858
14	22	4.5/6	U1287
16	22	3.6/4.8	U1660
16	24	4.5/5.8	U6278
16	24	4.5/6	U4145
16	24.3	4.5/6	U1288
18	24	3.6/4.8	U2719
18	24	4.8/3.6	A0564
18	26	4.5/6	U0989
20	25	4.5/5.8	U6279
20	26	3.6/4.8	U1949
20	28	4.5/6	U3307
20	28	5/6.8	U1162
20	30	6/7.5	U0257
22	28	3.6/4.8	U2285
22	30	4.5/5.8	U5671
22	30	4.5/6	U5685
22	30	5/6.8	U6603
22	30.6	4.4/5.8	U7776
22.4	30.4	4.5/5.8	U2883
22.4	30.4	4.5/6	U1289
24	32	4.8/6	U6750
25	31	3.6/4.8	U1641

Shaft diam.	Bore diam.	Width diam	Drawing no.
25	31	4.5/6	U6123
25	31	4.8/3.6	A0566
25	33	4.5/6	U0987
25	33	4.8/6	U6149
25	33	5/6.8	U6592
28	36	4.5/5.8	U1642
28	36	4.5/6	U1290
28	36	4.8/6	U6757
28	36	5/6.8	U3279
28	36	5.8/4.5	A0567
30	38	4.5/5.8	U3532
30	38	4.8/6	U5879
30	38	5/6.5	U0981
30	38	5/6.8	U2884
30	38	5.2/6.8	U8473
30	38	5.8/4.5	A0568
31.5	39.5	5/6.5	U5646
31.5	39.5	5/6.8	U6277
32	40	4.5/5.8	U2374
32	40	4.8/6	U6751
32	40	5/6.5	U1291
32	40	5/6.8	U2921
32	40	5.8/4.5	A0569
35	43	3.5/5	U7809
35	43	5/6.5	U0986
35	43	5/6.8	U1420
35	43	5.2/6.8	U8474
35.5	43.5	5/6.5	U4146

NAK STANDARD

WP1

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
36	44	4.5/5.8	U2851
36	44	5/6.8	U1164
38	46	5/6.5	U7324
40	48	4.5/5.8	U2296
40	48	4.65/5.95	U7553
40	48	5/6.5	U0985
40	48	5/6.8	U1163
40	48	5.8/4.5	A0571
45	52.5	5/7.2	U8156
45	53	4.5/5.8	U3467
45	53	4.5/5.9	U8480
45	53	5/6.5	U0984
45	53	5.8/4.5	A0572
45	55	5/6.8	U1165
50	58	4.5/5.8	U6589
50	58	5/6.5	U1293
50	58	5/6.8	U6604
50	60	5/6.8	U1421
53	61	5/6.5	U1294
55	63	5/6.5	U1295
55	63	5/6.8	U6596
55	65	5/6.8	U1166
56	64	5/6.5	U3309
56	64	5/6.8	U6607
56	66	5.3/6.8	U3113
56	66	6.8/5.3	A0573
60	68	5/6.5	U0983
60	68	5/6.8	U6044

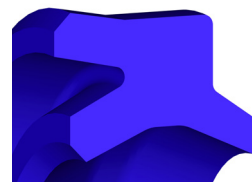
Shaft diam.	Bore diam.	Width diam	Drawing no.
60	70	5/6.8	U1161
60	70	5.3/6.8	U8464
63	71	5/6.5	U1296
63	71	5/6.8	U6593
63	73	5/6.8	U6588
65	73	5/6.45	U8144
65	73	5/6.5	U1297
65	73	5/6.8	U6636
65	75	5/6.8	U1422
68	78	5/6.8	U7353
70	78	5/6.8	U5777
70	80	5/6.8	U3008
70	80	6/8	U0982
71	81	6/8	U5793
75	83	5/6.8	U6644
75	85	5/7	U6282
75	85	6/8	U5623
75	87	7/9	U1159
78	88	7/9	U7466
80	90	5.3/6.8	U2722
80	90	6/8	U1299
80	90	6.8/5.3	A0574
80	92	7/9	U4152
82	94	7/9	U7465
85	95	6/8	U1300
85	97.2	7.1/10	U7727
90	100	5.3/6.8	U2668
90	100	6/8	U1301

E4

NAK STANDARD

WP1

**APPLICATION : WIPER
 MATERIAL : PU
 UNIT: MRYTIC**



E4

Shaft diam.	Bore diam.	Width diam	Drawing no.
90	102	7/9	U1158
95	105	6/8	U7922
95	107	6.8/9	U1156
95	107	7/9	U1156
100	110	6/8	U1302
100	112	7/9	U6605
104	116	7/9	U7317
110	122	7/10	U6599
110	125	7.5/9.5	U3087
112	124	7/9	U7061
115	127	7/9	U1423
120	132.2	5.3/6.8	U8443
120	135	8.3/10.5	U7905
125	137	7/9	U7238
125	138	7/9.5	U1303
129	141	7/9	U7314
130	143	7/9.5	U6557
135	147	7/9	U6571
140	153	7/9.5	U1304
140	155	7.5/9.5	U3200
145	158	7/9.5	U1305
150	162	7/9.5	U7252
154	166	7/9.5	U7315
155	167	7/9.5	U1426
160	172	7/9.5	U1427
160	173	7/9.5	U1516
160	174	7/9.5	U1306
165	179	7/9.5	U1307

Shaft diam.	Bore diam.	Width diam	Drawing no.
170	183	7/9.5	U1517
170	190	10/15	U6594
175	187	7/9.5	U7251
180	192	7/9.5	U7316
180	194	7/9.5	U1308
185	197	7/9.5	U1428
200	220	13/15.5	U7965

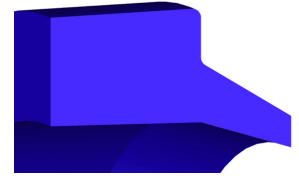
NAK STANDARD

WP2

APPLICATION : WIPER

MATERIAL : PU

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
0.375	0.687	0.194/0.245	U5329
0.500	0.812	0.194/0.245	U5331
0.625	0.937	0.194/0.245	U5333
0.750	1.062	0.194/0.245	U5335
0.875	1.250	0.205/0.265	U5337
0.937	1.312	0.205/0.265	U9617
1.000	1.375	0.205/0.265	U5339
1.125	1.500	0.205/0.265	U5341
1.187	1.562	0.205/0.265	U5342
1.250	1.625	0.205/0.265	U5343
1.375	1.750	0.205/0.265	U5345
1.500	1.875	0.205/0.265	U5347
1.625	2.000	0.205/0.265	U5349
1.750	2.125	0.205/0.265	U5351
1.875	2.250	0.205/0.265	U5353
2.000	2.375	0.205/0.265	U5355
2.125	2.500	0.205/0.265	U5357
2.250	2.750	0.268/0.325	U5359
2.375	2.875	0.268/0.325	U5361
2.500	3.000	0.268/0.325	U5363
2.625	3.125	0.268/0.325	U5365
2.750	3.250	0.268/0.325	U5367
2.875	3.375	0.268/0.325	U5369
3.000	3.500	0.268/0.325	U5371
3.125	3.625	0.268/0.325	U5372
3.250	3.750	0.268/0.325	U5373
3.375	3.875	0.268/0.325	U5374
3.375	3.875	0.281	

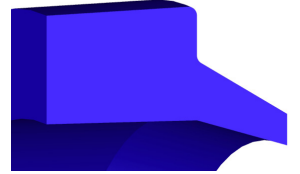
Shaft diam.	Bore diam.	Width diam	Drawing no.
3.500	4.000	0.268/0.325	U5376
3.625	4.125	0.268/0.325	U5377
3.687	4.187	0.268/0.325	U5378
3.750	4.250	0.268/0.325	U5379
3.875	4.375	0.268/0.325	U5380
3.875	4.375	0.281	
4.000	4.500	0.268/0.325	U5381
4.125	4.625	0.268/0.325	U5382
4.250	4.750	0.268/0.325	U5383
4.375	4.875	0.268/0.325	U5384
4.500	5.000	0.268/0.325	U5386
4.625	5.125	0.268/0.325	U5387
4.750	5.250	0.268/0.325	U5388
4.875	5.375	0.268/0.325	U5389
5.000	5.500	0.268/0.325	U5390
5.250	5.750	0.268/0.325	U5391
5.500	6.000	0.268/0.325	U5392
5.750	6.250	0.268/0.325	U5393
6.000	6.495	0.281/0.375	U5313
6.000	6.500	0.268/0.325	U5394
6.250	6.750	0.268/0.325	U5395
6.500	7.000	0.268/0.325	U5396
6.750	7.250	0.268/0.325	U5397
7.000	7.500	0.268/0.325	U5398

E4

NAK STANDARD

WP2

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



E4

Shaft diam.	Bore diam.	Width diam	Drawing no.
12.5	20.5	4.5/6	U7279
12.7	19	3/5	U5638
15	21	3.5/5	U00227
15	23	4.5/6	U5910
16	22	3/5	U5561
16	24	3/5	U5446
16	24	4.5/6	U00233
16	24	5/7	U4255
17	23.6	3.8/5.5	U8298
19	25.5	2.5/4.7	U6387
20	26	3.2/5	U5878
20	28	5/7	U4256
22	30	5/8.5	U7698
25	33	5/7	U4257
25	33	5/8	U8138
28	36	5/7	U4258
30	38	5/7	U4259
31.8	41.3	4.8/7.1	U0664
35	43	5/7	U4260
36	44	5/8	U8139
38.1	47.6	4.8/7.1	U0663
40	50	7/12	U9585
44.45	50.8	6.35/9.53	U9676
46	54.5	2.9/5	U5011
47	55.6	5.3/7	U7254
50	58	5/6.5	U4980
50	62	5/7	U00259
55	63	5/6.5	U7589

Shaft diam.	Bore diam.	Width diam	Drawing no.
56	66	6/10	U5670
60	68	5/6.5	U4981
60	68.5	2.8/5	U5717
60	70	6/10	U5187
60	70	7/12	U7725
61	67	5.3/7	U0263
63	73	6.1/8.3	U1252
69.5	78	2.8/5	U4809
76	82	5.3/7	U0266
80	89	3.8/6	U5718
90	98.5	3.8/6	U5084
90	100	6.8/10	U5581
91	97	5.3/7	U0264
100	109	3.8/6	U6904
100	110	6/8	U9086
100	112.2	7.2/12	U8516
107	113	5.3/7	U0265
110	119.5	3.8/6	U6905
117.5	127	3.8/6	U5207
140	148.6	6/9	U8262
140	149.5	3.8/6	U6903
160	172.2	7.1/11	U7706
160	175	9/14	U5672
180	200	10/18	U0434

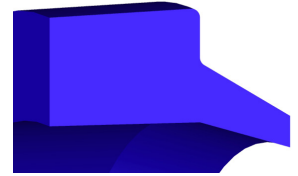
NAK STANDARD

WP2

APPLICATION : WIPER

MATERIAL : PU

UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
0.781	1.028	0.100/0.174	U5076
1.000	1.375	0.187/0.305	U7767
1.250	1.625	0.177/0.283	U5690
1.375	1.750	0.187/0.305	U7768
1.496	1.850	0.177/0.276	U7213
1.500	1.825	0.098/0.173	U5692
1.516	1.875	0.179/0.283	U5077
1.625	2.000	0.187/0.305	U7769
1.750	2.125	0.181/0.287	U5691
1.875	2.250	0.187/0.305	U7770
2.000	2.500	0.240/0.378	U5689
2.000	2.500	0.250/0.395	U9685
2.250	2.750	0.250/0.395	U7772
2.500	3.000	0.250/0.395	U7771
3.000	3.500	0.250/0.395	U7773
3.750	4.122	0.109/0.196	U5189
5.250	5.678	0.125/0.223	U5188
6.500	7.250	0.375/0.563	U5176
6.500	7.500	0.500/0.750	U5086
6.750	7.250	0.141/0.250	U5190
6.969	8.000	0.488/0.787	U9649
7.000	8.000	0.500/0.750	U5166

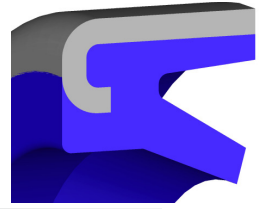
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP3

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



E4

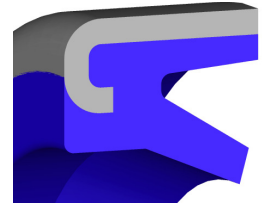
Shaft diam.	Bore diam.	Width diam	Drawing no.
16	23	5	U1244
16	24	2.8	U5905
16	26	7	U4596
20	28	5	U7011
20	30	7	U4597
25	32	5	U00189
25	32	7	U1246
25	35	4	U5673
25	37	6	U8602
25	38	7.5	U0885
30	38	5	U7532
30	40	4	U4211
30	40	7	U5101
30	43	7.5	U0883
30	45	4	U5897
35	45	4	U4454
35	45	7	U9737
35	50	7.5	U0882
36	46	7	U0975
36	48	6	U9623
38	50	7.5	U0881
40	50	3.18	U5902
40	50	4	U4455
40	50	5	U5614
40	50	7	U4462
40	50	8	U7410
40	50	9	U4474
40	52	6	U6559

Shaft diam.	Bore diam.	Width diam	Drawing no.
40	52	7	U0880
40	55	9	U4463
44	61.9	10	U3821
44.45	57.15	7.92	
44.45	61.94	9.52	U5428
45	55	3.18	U6878
45	55	3.2	U4522
45	55	4	U4456
45	55	4.2	U4605
45	55	4.5	U5662
45	55	5	U0217
45	55	6	U5756
45	55	7	U8611
45	57	7	U0884
45	60	5	U5757
45	60	7.5	U0879
47.62	60.32	6.35	U8700
50	60	4	U4548
50	60	4.2	U3521
50	60	4.5	U5882
50	60	5	U0216
50	60	6	U5900
50	60	7	U2725
50	62	7	U3853
50	63	4	U9637
50	63	5	U5610
50	63	7.5	U7511
50	64	8	U5247

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APPLICATION: WIPER
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
50	65	5	U5675
50	65	6	U5901
50	65	7.5	U2997
50	65	9	U4475
50.8	59.06	4.75	U9244
51.5	66	4.75	RD042
55	65	3.2	U4769
55	65	5	U4461
55	65	7	U4492
55	68	4	U9856
55	68	6	U5629
55	69	8	U3854
55	70	5	U5895
55	70	6	U5674
55	70	7.5	U0889
56	68	7	U6477
56	70	7.5	U5898
56	71	9	U4483
60	70	5	U0215
60	70	7	U6581
60	73	6	U5245
60	73	7	U8978
60	73	8	U6515
60	74	8	U0845
60	75	4	U5653
60	75	5	U5422
60	75	6	U5642
60	75	7	U4536

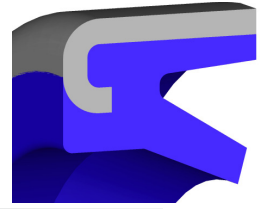
Shaft diam.	Bore diam.	Width diam	Drawing no.
60	75	7.5	U0890
60	75	8	U2833
63	75	7	U4466
63	78	7.5	U4312
63	78	9	U4484
63	83	10	U6516
65	75	7	U3855
65	79	8	U0891
65	80	5	U5644
65	80	7.5	U0935
65	80	8	U5881
70	80	5	U7847
70	80	7	U0448
70	80	8	U7839
70	84	4	U8607
70	84	7.5	U1728
70	84	8	U0936
70	85	4	U00199
70	85	5	U5643
70	85	7	U4543
70	85	7.5	U2251
70	85	8	U3639
70	85	10	U5464
71	86	5	U5628
71	86	6	U5880
75	89	8	U0934
75	90	6	U5963
75	90	7.5	U0933

E4

NAK STANDARD

WP3

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



E4

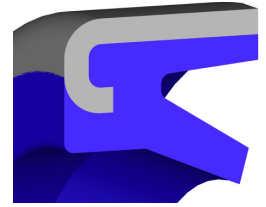
Shaft diam.	Bore diam.	Width diam	Drawing no.
75	90	8	U5631
75	95	10	U8655
80	90	3.18	U4523
80	90	4.5	U5741
80	90	6	U7273
80	90	7	U1249
80	90	8	U7838
80	94	4	U5856
80	94	8	U0932
80	95	5	U3303
80	95	6	U5742
80	95	7.5	U2397
80	95	8	U3642
80	100	10	U4046
85	95	5	U6742
85	95	7	U7742
85	95	8	U7837
85	99	8	U2852
85	100	4	U8229
85	100	6	U5097
85	100	8	U5419
85	100	10	U7603
85	105	10	U0930
88.9	101.6	9.52	U7208
88.9	107.95	7.93	U5641
90	100	7	U2787
90	100	8	U7836
90	104	8	U0929

Shaft diam.	Bore diam.	Width diam	Drawing no.
90	105	6	U1876
90	105	7	U5249
90	105	8	U3418
90	106	8	U2784
90	110	7	U4506
90	110	8	U0734
90	110	10	U0944
95	109	8	U5423
95	110	6	U6176
95	110	8	U4549
95	115	10	U9424
95.25	107.95	9.52	U7005
100	110	7	U6533
100	110	8	U7832
100	114	8	U0943
100	115	4	U9671
100	115	6	U5984
100	115	6.5	U4532
100	115	7	U4496
100	115	7.5	U1877
100	115	8	U4095
100	115	9	U1987
100	116	8	U2785
100	118	8	U8686
100	120	4	U6000
100	120	6.5	U8107
100	120	7	U7749
100	120	8	U0736

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APPLICATION: WIPER
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
100	120	10	U0942
101.6	114.3	9.52	U7019
105	120	7	U6608
105	120	7.5	U9857
105	120	8	U5420
110	120	7	U7335
110	120	8	U7833
110	125	4	U5904
110	125	8	U4500
110	125	9	U4019
110	126	8	U2783
110	126	9	U0941
110	128	8	U8612
110	130	7.5	U9217
110	130	8	U5096
110	130	9	U3523
110	130	10	U0940
110	140	8	U7505
115	130	8	U4314
115	135	8	U5850
120	130	7	U7114
120	130	8	U7834
120	135	4	U00257
120	135	6.5	U9611
120	135	8	U2365
120	136	9	U0939
120	140	8	U2655
120	140	10	U4519

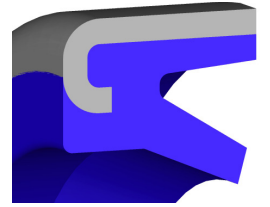
Shaft diam.	Bore diam.	Width diam	Drawing no.
120	150	12	U0737
125	140	8	U5421
125	140	9	U4535
125	145	8	U7008
125	145	10	U00258
130	140	7	U00186
130	145	7.5	U2678
130	146	9	U0937
130	150	7.5	U1510
130	150	8	U3803
130	150	9	U5215
130	150	10	U4425
130	154	8	U3268
130	155	8	U8108
130	155	10	U5849
130	160	12	U4396
140	155	8	U7848
140	160	8	U7829
140	160	10	U3468
140	162	7.5	U5122
140	164	8	U7789
140	165	8	U7280
140	170	8	U5266
140	170	12	U7781
145	160	10	U7830
150	165	8	U5276
150	170	10	U5132
150	175	8	U5267

E4

NAK STANDARD

WP3

**APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC / INCH**



E4

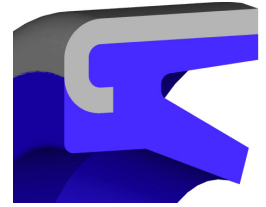
Shaft diam.	Bore diam.	Width diam	Drawing no.
150	175	9	U2366
150	180	8	U9646
150	180	10	U7215
160	175	8	U8696
160	175	10	U7007
160	180	5	U8071
160	180	8	U7831
160	180	10	U3267
160	184	8	U5277
160	190	9	U2367
160	190	10	U5268
170	190	8	U5630
170	190	9	U2368
170	200	10	U2369
175	195	10	U5667
180	195	9	U6280
180	200	10	U4397
180	210	15	U9872
200	220	10	U8289
200	225	12	U6729
205	225	10	U00195
215	240	10	U5676
220	240	16	U5209
230	250	12	U5317

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.625	1.125	0.312	U5102
0.750	1.250	0.312	U5017
0.875	1.375	0.312	U4537
0.875	1.375	0.313	U0235
1.000	1.250	0.125	U5797
1.000	1.375	0.187	U5664
1.000	1.500	0.312	U4541
1.125	1.625	0.312	U4485
1.187	1.625	0.250	U5248
1.250	1.687	0.187	U4652
1.250	1.750	0.187	U8089
1.250	1.750	0.250	U0179
1.250	1.750	0.312	U4542
1.250	1.750	0.313	U0149
1.250	2.062	0.312	U5100
1.250	2.062	0.375	U5033
1.375	1.750	0.187	U5465
1.375	1.875	0.312	U4464
1.500	1.875	0.187	U5665
1.500	1.875	0.250	U5818
1.500	2.000	0.250	U0181
1.500	2.000	0.312	U3823
1.500	2.000	0.328	U1230
1.500	2.125	0.312	U4538
1.500	2.250	0.250	U5466
1.500	2.250	0.375	U4477
1.625	2.125	0.250	U0835
1.625	2.125	0.312	U5263

NAK STANDARD

WP3

**APPLICATION : WIPER
MATERIAL : PU
UNIT: INCH**



Shaft diam.	Bore diam.	Width diam	Drawing no.
1.750	2.125	0.125	U5836
1.750	2.250	0.187	U4482
1.750	2.250	0.250	U3762
1.750	2.250	0.312	U5264
1.750	2.250	0.313	U0233
1.750	2.250	0.328	U1231
1.750	2.437	0.375	U4478
1.750	2.500	0.375	U4465
1.875	2.375	0.250	U0833
1.875	2.375	0.312	U5265
1.875	2.562	0.375	U5467
2.000	2.375	0.187	U5250
2.000	2.375	0.250	U5261
2.000	2.500	0.250	U4746
2.000	2.500	0.312	U0832
2.000	2.500	0.328	U1232
2.000	2.625	0.250	U5817
2.000	2.686	0.375	U4479
2.000	2.688	0.313	U3007
2.000	2.750	0.375	U4480
2.125	2.500	0.125	U5816
2.125	2.625	0.250	U5837
2.125	2.625	0.313	U5838
2.125	2.875	0.375	U4615
2.250	2.750	0.187	U5815
2.250	2.750	0.250	U5260
2.250	2.750	0.312	U0831
2.250	2.750	0.313	U0234

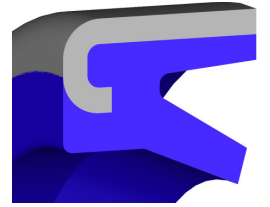
Shaft diam.	Bore diam.	Width diam	Drawing no.
2.250	2.997	0.375	U4473
2.250	3.000	0.250	U5246
2.250	3.000	0.375	U4643
2.345	2.727	0.210/0.226	U1374
2.375	2.875	0.312	U4481
2.375	3.125	0.375	U5814
2.500	3.000	0.187	U4654
2.500	3.000	0.250	U5360
2.500	3.000	0.312	U0830
2.500	3.000	0.375	U5259
2.500	3.187	0.375	U5869
2.500	3.250	0.250	U5813
2.500	3.250	0.375	U4505
2.500	3.500	0.375	U5803
2.625	3.125	0.250	U5106
2.734	3.250	0.313	U4067
2.750	3.250	0.187	U5827
2.750	3.250	0.312	U5258
2.750	3.250	0.313	U0526
2.750	3.500	0.375	U4467
2.750	3.750	0.500	U5820
3.000	3.500	0.312	U0828
3.000	3.750	0.250	U5822
3.000	3.750	0.375	U4493
3.000	4.000	0.500	U4501
3.125	3.750	0.375	U5865
3.250	3.750	0.312	U4502
3.250	3.875	0.312	U4668

E4

NAK STANDARD

WP3

APPLICATION : WIPER
MATERIAL : PU
UNIT: INCH



E4

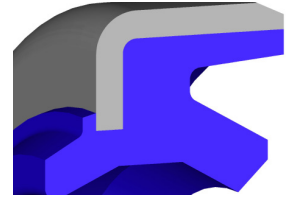
Shaft diam.	Bore diam.	Width diam	Drawing no.
3.250	4.250	0.500	U4540
3.375	4.000	0.312	U4745
3.500	4.000	0.312	U4494
3.500	4.125	0.312	U3333
3.500	4.250	0.250	U5859
3.500	4.500	0.500	U5034
3.750	4.250	0.312	U5870
3.750	4.250	0.375	U0826
3.750	4.375	0.312	U4653
3.750	4.500	0.312	U4495
3.750	4.750	0.500	U5823
4.000	4.500	0.312	U5796
4.000	4.5000	0.375	U0825
4.000	4.625	0.312	U4533
4.000	4.750	0.312	U5098
4.000	5.000	0.500	U5103
4.250	4.750	0.187	U4650
4.250	4.750	0.312	U5318
4.250	4.875	0.312	U4498
4.500	5.125	0.312	U4651
4.500	5.250	0.312	U4667
4.500	5.500	0.500	U5105
5.000	5.625	0.312	U4534
5.000	5.750	0.312	U4497
5.000	6.000	0.500	U5099
5.250	5.750	0.312	U5663
5.500	6.125	0.375	U4503
5.500	6.250	0.312	U5824

Shaft diam.	Bore diam.	Width diam	Drawing no.
5.750	6.375	0.375	U5104
6.000	6.625	0.375	U4468
6.000	6.750	0.375	U4499
6.000	7.000	0.500	U5833
6.500	7.250	0.312	U5825
7.000	7.750	0.312	U4504
7.000	8.000	0.500	U5826
8.000	8.750	0.375	U4744

NAK STANDARD

WP4

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
18	30	6/9	U5762
19	26	5/7	U1834
19	27	4/6	U4614
19.3	26.1	5/7	U7655
20	32	6/9	U0499
22	34	6/9	U6539
25	37	6/9	U0500
25.4	38	6/9	U4476
25.6	34.8	4.9/5.6	U7301
30	42	6/9	U0501
32	44	7/10	U0502
32	52	8/11	U1792
34	46	7/10	U0523
35	47	7/10	U0524
35	55	7/10	U5293
36	48	7/10	U6600
38	50	7/10	U0505
40	50	7/10	U9445
40	52	7/10	U2396
40	55	7/10	U8131
40	60	7/10	U5291
45	57	7/10	U0507
45	65	7/10	U5294
50	62	7/10	U0061
50	62	8/12	U7673
50	65	7/10	U8133
50	72	8/11	U1794
53.97	66.67	6.6/9.9	U8085

Shaft diam.	Bore diam.	Width diam	Drawing no.
55	69	8/11	U0506
55	69	8/12	U7390
55	75	7/10	U5295
60	73	7/10	U00078
60	74	8/11	U3022
60	74	8/12	U7387
60	75	7/10	U8134
63	77	8/11	U5308
65	79	8/11	U0509
65	79	8/12	U7388
65	79	8/13	U6977
65	85	7/10	U5296
70	83	8/11	U3278
70	84	8/11	U0510
70	84	8/12	RD077
70	84	8/13	U6894
70	85	7/10	U8132
75	89	8/11	U0511
75	89	8/12	U7389
80	94	8/11	U8266
80	94	8/12	U0522
80	94	8/13	U6895
80	95	7/10	U8339
85	99	8/11	U0512
85	99	8/12	U7384
85	99	8/13	U6896
90	104	8/11	U3023
90	104	8/12	U7748

E4

NAK STANDARD

WP4

APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC / INCH



E4

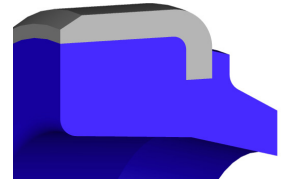
Shaft diam.	Bore diam.	Width diam	Drawing no.
90	104	8/13	U6976
90	110	8/11	U00231
95	109	8/11	U0514
95	109	8/12	U7385
95	109	8/13	U6893
100	114	8/11	U0515
100	114	8/12	U7678
100	114	8/13	U6870
105	121	8/12	U7679
105	121	9/12	U0516
110	126	9/12.5	U7680
110	126	9/12	U0517
115	131	9/12.5	U7672
115	131	9/12	U0518
120	136	9/12	U0519
130	146	9/12	U0520
140	160	10/14	U0521
145	160	10/14	U5659
145	165	10/14	U8396
165	185	10/14.5	U5041
200	216	8/11	U5040
200	225	12/17	U5043
210	230	12/17	U5743
230	255	12/17	U5810

Shaft diam.	Bore diam.	Width diam	Drawing no.
8.125	8.881	0.375/0.500	U6181

NAK STANDARD

WP5

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
8	14	3/5	U6578
8	14	3.5/5	U3820
8	18	5/7	U2758
9	16	5/7	U8293
10	16	3.5/5	U5979
10	20	4/6	U9431
10	20	5/8	U0221
12	18	3/5	U6577
12	18	3.5/5	U7079
12	20	4/6	U0136
12	22	5/8	U3086
14	20	3.5/5	16404
14	20	3.5/5	U2689
14	22	3/4	U7275
14	24	5/7	U4580
14	25	5/8	U7503
15	21	3.5/5	U4399
15	25	5/7	U9907
15	25	5/8	U0638
16	22	3/4	U2667
16	22	3.5/5	U1694
16	26	5/8	U2907
17	24	3.5/5	U0525
18	28	5/7	U1729
18	28	5/8	U3843
18	28	7/10	U3937
18	30	6/9	U0057
19	26	5/7	U5539

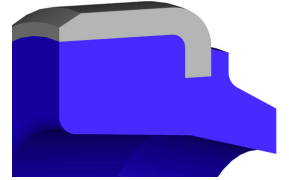
Shaft diam.	Bore diam.	Width diam	Drawing no.
19	26	5/8	U3033
19	27	6.4/9.5	U1978
20	28	3.5/5	U1225
20	30	4/6	U0148
20	30	5/8	U0107
20	30	7/10	U2240
20	32	6/9	U1323
20	32	7/10	U3290
22	28	5/8	U5978
22	32	5/8	U4792
22	32	7/10	U3928
25	32	5/7	U00077
25	32	5/8	U2229
25	35	5/8	U4273
25	35	7/10	U0049
25	35	7/9	U7181
25	37	6/9	U1324
25.4	38	6/9	U5540
28	38	5/8	U3844
28	38	7/10	U0227
28	40	6/9	U1326
28	40	7/10	U0838
28	40.1	6/9.5	U4814
28	42	7/10	U5604
28.57	38.1	5.56/7.14	U9853
30	40	5/8	U0637
30	40	7/10	U0636
30	42	5/8	U0966

E4

NAK STANDARD

WP5

APPLICATION : WIPER
 MATERIAL : PU
 UNIT: METRIC



E4

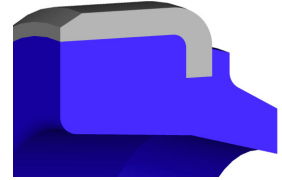
Shaft diam.	Bore diam.	Width diam	Drawing no.
30	42	5.7/8	U5315
30	42	6/9	U4252
30	45	5/8	U0064
30	47	7/10	U0967
32	40	4/7	U5723
32	42	5/8	U3845
32	42	7/10	U2786
32	44	7/10	U1327
32	45	4/6	U2934
32	45	7/10	U0223
33	43	7/10	U5977
35	45	7/10	U0130
35	47	7/10	U0059
36	45	7/10	U0839
36	46	5/7	U5976
36	46	7/10	U2935
36	50	7/10	U3846
38	48	7/10	U4393
38	50	7/10	U00244
38.1	47.62	5.56/7.14	U00270
40	50	5/8	U3630
40	50	7/10	U0635
40	52	7/10	U0456
40	55	7/10	U9687
40	57	7/10	U00079
40	60	7/10	U0202
42	52	5/8	U5975
42	52	7/10	U0604

Shaft diam.	Bore diam.	Width diam	Drawing no.
44.45	53.97	5.56/7.14	U8482
45	55	5/8	U5794
45	55	7/10	U2755
45	57	7/10	U1329
45	60	7/10	U3104
47	59	7/10	U3503
48	60	7/10	U0854
48	62	7/10	U7077
50	56	5/8	U1413
50	60	5/8	U4992
50	60	7/10	U0105
50	62	5/8	U9599
50	62	7/10	U0055
50	65	7/10	U0965
52	62	7/10	U0853
53	67	8/11	U1331
53.97	63.5	5.56/7.14	U8496
55	63	7/10	U0852
55	65	5/8	U0382
55	65	7/10	U0639
55	69	8/11	U1332
56	66	5/8	U5973
56	66	7/10	U2550
56	70	8/11	U1333
57.15	66.67	5.56/7.14	U9226
60	70	5/8	U5972
60	70	7/10	U2253
60	74	5/8	U0851

NAK STANDARD

WP5

**APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
60	74	8/11	U1334
60	75	7/10	U0964
60	80	7/10	U8869
63	73	5/8	U1222
63	73	7/10	U1887
63	75	7/10	U0608
63	77	8/11	U2937
63	78	7/10	U5896
64	78	8/11	U1336
65	75	5/8	U5971
65	75	7/10	U0457
65	79	8/11	U3847
66	76	7/10	U9247
67	81	8/11	U1337
70	80	5/8	U5981
70	80	7/10	U2760
70	84	8/11	U0052
70	85	7/10	U9693
70	86	7/10	U9850
71	85	8/11	U1338
75	83	7/10	U5983
75	85	7/10	U0856
75	89	8/11	U1339
77	87	7/10	U9733
80	88	7/10	U5982
80	90	7/10	U2254
80	94	8/11	U0060
82	92	7/10	U0632

Shaft diam.	Bore diam.	Width diam	Drawing no.
85	95	7/10	U0862
85	99	8/11	U1340
90	100	7/10	U0631
90	104	8/11	U1341
90	110	10/14	U2757
92	106	8/11	U1342
95	105	7/10	U0154
95	109	8/11	U5430
100	110	7/10	U0742
100	114	8/11	U0056
100	115	8/11	U2693
105	115	7/10	U0863
105	121	9/12	U1344
106	122	9/12	U6595
110	120	7/10	U0743
110	126	9/12	U2244
110	130	7/10	U6583
112	128	9/12	U1347
115	125	7/10	U4254
115	131	9/12	U5045
118	134	9/12	U1348
120	130	7/10	U0744
120	136	9/12	U1349
125	140	9/12	U0865
125	141	9/12	U1350
130	145	9/12	U3848
130	146	9/12	U1351
132	148	9/12	U1352

E4

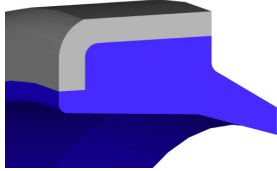
NAK STANDARD

WP6

APPLICATION : WIPER

MATERIAL : PU

UNIT: METRIC / INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
19	27	4/5.2	U2843
20	26	5/7	U2440
48	62	7/10	U0106
66	76	7/10	U6755

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.750	1.125	0.187/0.281	U0677
1.000	1.375	0.187/0.281	U0678
1.125	1.500	0.187/0.281	U0679

E4

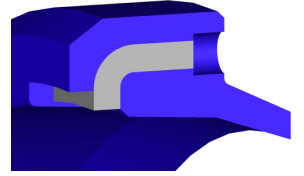
NAK STANDARD

WP7

APPLICATION : WIPER

MATERIAL : PU

UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
12	22	5/8	U00194
16	22	3.5/5	U00187
25	32	5/7	U8780
25	35	7/10	U00092
28	40	7/10	U4389
42	52	7/10	U5789
50	60	7/10	U8421
55	65	7/10	U7113
60	70	7/10	U9563
65	75	7/10	U3099
70	80	7/10	U9509
80	90	7/10	U9638
85	95	7/10	U7241
100	110	7/10	U9395
110	120	7/10	U00251
152	165	8.7/12	U8983

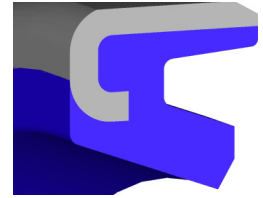
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP11

APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
15.88	28.58	7.75	U00283
30	38	5	U5208
35	45	7	U3898
40	50	4.2	U2953
40	50	7	U3897
40	50	9	U4219
40	55	9	U4459
45	55	7	U3899
45	55	7.5	U9628
45	60	7.5	U9626
50	60	7	U3900
50	65	7.5	U7747
50	65	9	U4220
52	68	6	U2453
55	65	5	U4457
55	65	7	U4231
56	71	9	U4221
60	74	8	U0371
60	75	7.5	U7808
63	75	7	U4236
63	75	8	U9627
63	78	9	U4222
65	80	5	U0370
70	80	7	U3901
70	84	8	U4942
80	90	7	U3902
80	93	8	U8592
80	95	6	U7807

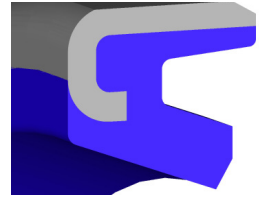
Shaft diam.	Bore diam.	Width diam	Drawing no.
80	95	8	U7109
85	99	8	U7707
85	100	8	U7786
90	100	7	U4232
90	105	8	U7723
90	106	8	U1894
90	110	7	U4229
90	110	10	U8539
90	115	6	U8528
100	114	8	U5714
100	115	6	U8530
100	115	7	U4218
100	116	8	U1893
100	120	8	U7112
110	125	8	U4241
110	130	10	U7806
115	130	7.5	U7688
115	135	8	U7687
120	150	12	U7087
125	140	8	U7686
130	140	7	U9658
130	145	7.5	U8489
130	154	8	U7082
130	154	8.5	U2156
130	160	12	U7083
140	155	8	U7684
140	164	8	U7084
140	170	8	U8569

E4

NAK STANDARD

WP11

**APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC / INCH**



E4

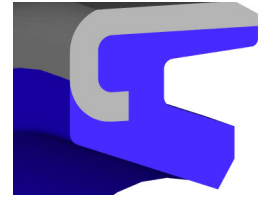
Shaft diam.	Bore diam.	Width diam	Drawing no.
140	170	12	U7088
150	165	8	U7805
150	170	8	U8526
150	175	10	U8462
150	180	10	U8493
160	175	8	U8485
160	175	10	U8591
160	184	10	U8456
160	185	4	U8527
160	190	10	U8347
170	190	8	U8486
170	190	10	U8463
180	200	8	U8568
180	200	10	U8461
180	210	15	U8529
200	220	10	U8531

Shaft diam.	Bore diam.	Width diam	Drawing no.
1.000	1.500	0.313	U0372
1.125	1.625	0.312	U4224
1.250	1.687	0.187	U1858
1.250	1.750	0.313	U0373
1.375	1.875	0.312	U4233
1.500	2.000	0.312	U4212
1.500	2.250	0.375	U4209
1.750	2.437	0.375	U3054
1.750	2.500	0.375	U4234
2.000	2.375	0.187	U1857
2.000	2.500	0.312	U4225
2.000	2.500	0.313	U4943
2.000	2.686	0.375	U4247
2.000	2.750	0.375	U4248
2.250	2.997	0.375	U4240
2.375	2.875	0.312	U4249
2.500	3.000	0.313	U0374
2.500	3.250	0.375	U5326
2.750	3.250	0.313	U0375
2.750	3.500	0.375	U4458
3.000	3.500	0.313	U0376
3.000	3.750	0.313	U6964
3.000	3.750	0.375	U3051
3.000	4.000	0.500	U4250
3.250	3.750	0.312	U4251
3.250	3.750	0.313	U3052
3.500	4.000	0.312	U4227
3.500	4.000	0.313	U0377

NAK STANDARD

WP11

**APPLICATION : WIPER
MATERIAL : PU
UNIT: INCH**



Shaft diam.	Bore diam.	Width diam	Drawing no.
3.500	4.125	0.312	U4228
3.750	4.500	0.312	U4239
4.250	4.750	0.313	U8926
4.250	4.875	0.312	U4237
4.500	5.125	0.312	U9435
4.500	5.500	0.500	U9368
5.000	5.750	0.312	U4235
5.000	5.750	0.313	U2343
5.500	6.125	0.375	U4268
6.000	6.250	0.375	
6.000	6.625	0.375	U4230
6.000	6.750	0.375	U4238
6.500	7.250	0.313	U1254
7.000	7.750	0.312	U4215

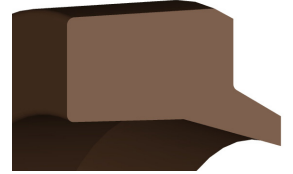
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP12

APPLICATION : WIPER
 MATERIAL : NBR / FKM
 UNIT: METRIC



E4

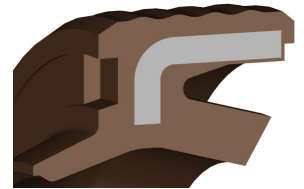
Shaft diam.	Bore diam.	Width diam	Drawing no.
10	16	3.3/5.4	U1989
11	26	2/4.5	U00190
12	18	3/5.3	U7536
12.5	26	2/4.5	U00191
14	26	2/4.5	U00192
16	20	2.9/3.9	U5700
16	22	3/5.3	U7153
16	22	5/7	U5768
16	24	2/4.5	U00193
17	25	3.9/7	U7134
18	22	2.9/3.9	U5576
18	24	3/5.3	U7125
18	26	3.9/7	U8444
22	26	2.9/3.9	U5577
22	30	5/7	U4833
24	30	4.3/5.8	U8255
24	32	5/7	U7535
25	33	5/7	U5489
26	33	4/6.5	
27.95	35	3.5/5.3	U0846
28	36	5/7	U5221
29	35.5	2.6/4.5	U1019
30	38	5/7	U4832
33	40	3.5/5.3	U2728
33	41	5/7	U7168
34.5	40.65	2.5/3.8	U1008
35	43	5/7	U7159
35.5	41.5	4.7/5.8	U9686

Shaft diam.	Bore diam.	Width diam	Drawing no.
36	44	5/7	U5222
38	46	5/7	U8239
40	46	4.3/5.8	U5683
40	48	5/7	U5781
40	50	7/9	U4831
42	50	5/7	U7154
42	54	6/9	04238
44	52	3.9/7	U7537
45	53	5/7	U7149
45	53.5	5/8.5	U7150
45	55	5/7	U5223
50	58	5/7	U5780
50	60	5/7	U7169
51	59	3.9/7	U7135
52	60	3.9/7	U7152
53	61	5/7	U7170
55	63	5/7	U7171
55	65	5/7	U7160
56	64	5/7	U5224
56	66	5/7	U5243
60	68	5/7	U1536
60	70	5/7	U4830
63	71	5/7	U5232
63	73	5/7	U7533
65	73	5/7	U7161
65	75	5/7	U4829
70	78	5/7	U7162
70	80	5/7	U5233

NAK STANDARD

WP13

APPLICATION : WIPER
 MATERIAL : NBR/FKM
 UNIT: METRIC



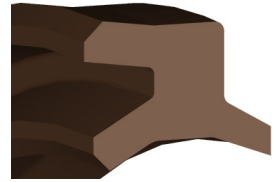
Shaft diam.	Bore diam.	Width diam	Drawing no.
9.5	17.5	4.7/6.2	U7292
13	19	3.5/4.5	58802
13	20	4/6	U3355
14	22	5/7	U3356
14	22	6/7	U2794
15	21	5/7	U9705
16	24	6/8	U3360
18	25	5/7	16110
18	25	5/7	U5109
18	26	5/7	U8709
18	26	6/8	U3359
20	28	6/7	U2658
20	28	6/8	U3357
22	30	6/8	U3358
25	33	6/7	16883
25	33	6/7	U2071
30	40	6.5/8	23505

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WP14

APPLICATION : WIPER
 MATERIAL : NBR / FKM
 UNIT: METRIC



E4

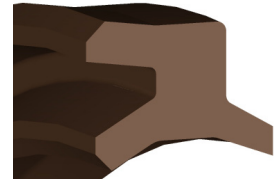
Shaft diam.	Bore diam.	Width diam	Drawing no.
3	7	3/4	U00243
3.5	8.5	3.8/5	U8435
5	10	4/4.8	U1682
6	10	3/4.4	U5694
8	12	3.5/4.9	U6416
9	17	4.8/6	U2093
10	14	3.5/5	U6017
10	14.5	2.5/3	U6632
10	16	5/6.5	U8278
10	18	5/7	U2752
10.5	16	4.2/5.8	U5206
12	16	3.5/4.7	U7133
12	17	4.2/6	U5734
12	18	4/6	U3896
12	18	5/7	U2751
12.5	20	4/6	U7097
13	20	5/6.5	U7341
13	20	5/7	U0484
13	20	5.2/6.7	U5117
14	18	3.5/4.8	U5625
14	20	4/6	U3895
14	22	4.5/6	U1914
16	24	4.5/6	U1925
16	24	4.5/6	U1925
16	24	5.5/7.5	U5736
18	24	4/6	U3894
18	26	4.5/6	22275
20	28	4.5/6	22604

Shaft diam.	Bore diam.	Width diam	Drawing no.
20	28	5.5/7.5	U5996
20	30	6.5/9.5	U6639
22	28	4/6	U3893
22	28	5.3/6.3	U5598
22	30	4.5/6	U1915
22.4	30.4	4.5/6	U2041
25	31	5.7/7	U5807
25	33	4.5/6	22605
25	33	4.5/6	22605
25	33	5.5/7.5	U6236
25	35	4.5/6.5	U5599
27.3	35	3.5/5	22700
28	36	4.5/6	U1800
28	36	5/7	U3892
30	38	4.5/6	U1396
30	38	5/6.5	U3545
30	38	5/6.5	U3545
30	40	6.5/8.2	U5624
31	40	4.5/6.4	U7051
31	44.5	5/9	U9472
32	40	5/6.5	U4772
32	42	6.5/8.5	U6724
32	44	5/9	
34	43	4.5/6.2	U7053
35	43	3.5/5	U7736
35	43	5/6.5	U1397
35	45	6.5/8.5	U6688
35.5	43.5	5/6.5	U8123

NAK STANDARD

WP14

APPLICATION : WIPER
 MATERIAL : NBR/FKM
 UNIT: METRIC



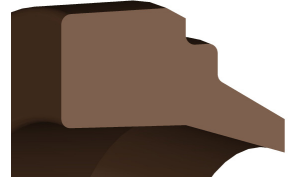
Shaft diam.	Bore diam.	Width diam	Drawing no.
36	44	5/7	U3891
36.5	47	6.5/8.5	U7236
38	46	4/5.5	U2016
40	48	5/6.5	U1398
44	51.8	5.2/8	U7823
45	53	5/6.5	U1799
45	53	5/7	U3890
45	55	6.5/8.5	U6630
50	58	5/6.5	U1399
55	63	5/6.5	U1916
56	64	5/6.5	U8330
56	66	6/8	U3889
60	68	5/6.5	U0947
65	73	5/6.5	U1917
70	80	6/8	U1400
75	85	6/8	U1918
80	90	6/8	U1919
85	95	6/8	U1920
90	100	6/8	U1921
95	105	6/8	U1922
100	110	6/8	U1923
105	115	6/8	U1924
110	120	6/8	U1926
110	125	8.5/10.5	U3888
140	155	8.5/10.5	U3886

Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

WP15

APPLICATION : WIPER
MATERIAL : NBR / FKM
UNIT: METRIC



E4

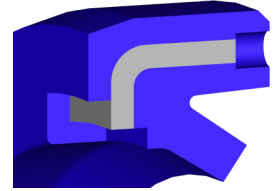
Shaft diam.	Bore diam.	Width diam	Drawing no.
8	16	2/4.5	U6992
18	26	3.9/7	U4834
22	30	3.9/7	U8668
23	31	3.9/7	U7129
25	33	3.8/7	U4119
25	33	3.9/7	U4835
25	34	5.5/8.5	U4836
26	34	5.5/8.5	U8110
32	40	3.9/7	U4837
40	50	7/9	U2753
45	53	3.9/7	U7400
50	58	3.9/7	U9377
63	71	4/7	U1124
90	98	3.9/7	U7291
102	114	5.3/10	U7145
106	118	5.3/10	U7140
110	118	3.9/7	U7144
200	212	5.3/10	U7137
210	225	6.35/13	U7141
238	253	6.35/13	U7121

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WP 16

APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
25	33	6.5	U3469
40	50	8	U5306
45	62	12	U2792
50	62	7	U2793
50	62	8	U5307
60	72	8	U2627
80	95	8	U4531
85	95	7/8	U0571
100	118	8	U7004

Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP17

APPLICATION : WIPER
 MATERIAL : NBR
 UNIT: METRIC



E4

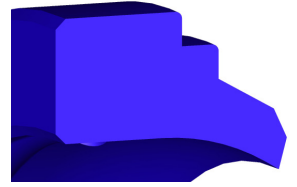
Shaft diam.	Bore diam.	Width diam	Drawing no.
12	20	4/8	U7326
14	22	4/8	U7327
16	24	4/8	U5179
18	26	4/8	U5505
18	26	4/8	U7827
19	27	8	U2797
20	28	4/8	U5180
22	30	4/8	U6572
25	33	3.8/8	U5542
25	33	4/8	U6519
28	36	4/8	U5181
30	38	4/8	U5182
32	40	4/8	U5178
35	43	4/8	U5177
35	43	8	U1773
36	44	4/8	U5191
38	46	4/8	U7685
40	48	4/8	U5192
45	53	4/8	U5193
50	58	4/8	U5183
50	58	4.6/8	U3867
50	58	6/12	U7654
55	63	3.6/8.3	U5080
55	63	4/8	U6951
56	64	4/8	U5184
60	68	4/8	U6573
63	71	4/8	U5185
65	73	4/8	U5186

Shaft diam.	Bore diam.	Width diam	Drawing no.
70	78	4/8	U5195
75	83	4/8	U6521
80	88	3.8/8	U5557
90	98	4/8	U5194
100	108	4/8	U5196
110	122	5.4/11	U5558
120	132	5.4/11	U5543
125	137	5.4/11	U5544
140	152	5.4/11	U5545
150	162	5.4/11	U5555
160	172	5.5/11	U7321
170	182	5.4/11	U5556
180	192	5.5/11	U7322
200	212	5.5/11	U7323

NAK STANDARD

WP22

APPLICATION : WIPER
MATERIAL : PU
UNIT: METRIC



E4

Shaft diam.	Bore diam.	Width diam	Drawing no.
14	20	2.6/5	U8323
18	26	4/7	U4419
20	26	4/7	U5124
20	28	4/7	U4439
25	33	4/7	U5875
25.5	33.5	3.8/6.9	U8941
32	40	3.8/6.9	U00281
36	44	3.8/6.9	U00151

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WP24

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
25	33	6.2/7.7	U4623
25	33	6.2/7.7	U4824
25.5	32	6/6.9	U5133
28	35	6.2/7.7	U5749
35	45	6.2/7.8	U8667

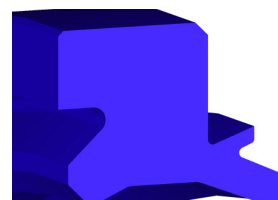
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP32

APPLICATION: WIPER
MATERIAL: PU
UNIT: METRIC



E4

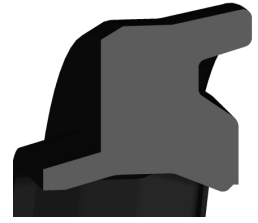
Shaft diam.	Bore diam.	Width diam	Drawing no.
79	89	6/9	U7939
85	98.5	6/9	U7821
90	103.5	6/9	U7852
99	109	6/9	U7946
100	115	6/9	U7782
110	123.5	6/9	U7853
123	133	6/9	U7945
125	140	6/9	U7783
135	148.5	6/9	U7856
148	160	7/10	U7944
150	165	6/9	U7784
160	173.5	6/9	U7822
176	188	7/10	U7938
180	195	6/9	U7785

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WP33

APPLICATION: WIPER
 MATERIAL: NBR / HNBR
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
8	15	3.5/4.7	U7596
8	15	3.5/4.7	U7596
10	17	3.5/4.7	U7595
10	17	3.5/4.7	U7595
12	19	3.5/4.7	U7598
12	19	3.5/4.7	U7598
14	24	4.5/5.7	U7597
14	24	4.5/5.7	U7597

Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

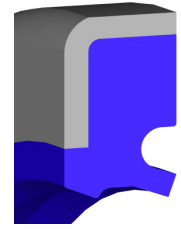
NAK STANDARD

WP34

APPLICATION: WIPER

MATERIAL: PU

UNIT: METRIC



E4

Shaft diam.	Bore diam.	Width diam	Drawing no.
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45	55	4.2	U00002
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50	60	4.2	U00003
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50	65	5	U00005
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55	68	4.2	U9999
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60	75	5	U00001
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65	80	5	U00004
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68	90	7	U7726
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Shaft diam.	Bore diam.	Width diam	Drawing no.
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Shaft diam.	Bore diam.	Width diam	Drawing no.
40	50	4	U9765
65	80	5	U9245
65	80	8	U00201
71	86	5	U9318
80	95	5	U9049
90	105	6	U9329
90	105	8	U9764
100	115	7	U9317
110	125	6	U9763
110	125	8	U00205
110	125	9	U9319

Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

WP42

APPLICATION : WIPER
 MATERIAL : NBR / FKM
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
8	16	8.2/6.2	26603
10	18	8.2/6.2	17582
12	22	7/9	18388
12	22	7/9	18388
12	22	9/7	27225
16	26	7/9	06574
16	26	7/9	06574
20	30	7/9	06575
20	30	9/7	14326
25	35	9/7	14327
30	40	7/9	06576
35	45	9/7	15077
40	50	7/9	53836
45	55	7/9	06577
45	55	7/9	U5153
50	60	7/9	06570

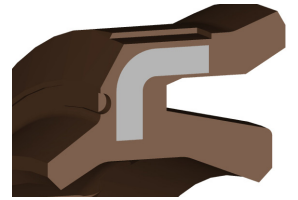
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP46

APPLICATION: WIPER
MATERIAL: NBR
UNIT: METRIC



E4

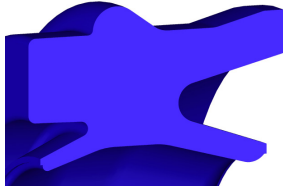
Shaft diam.	Bore diam.	Width diam	Drawing no.
25	37	5.8/7.7	U6530
30	42	5.8/7.7	U5746
35	47	6.8/8.7	U6970
40	52	6.8/8.7	U5696
45	57	6.8/8.7	U6864
50	62	6.8/8.7	U5701
55	69	7.7/10	U8340
105	121	8.7/11.4	U9294

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WP52

**APPLICATION: WIPER
MATERIAL: PU
UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
16	26	10.4	U00081
20	30	10.4	U7265
20	30	10.9	U7142

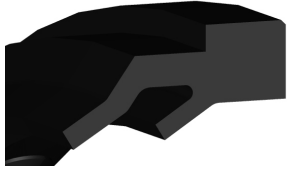
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WP54

APPLICATION: WIPER
MATERIAL: NBR
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
166	178	5.3/13.9	U8304
195	207	5.3/13.9	U8303
215	230	6.3/14.9	U8307
235	250	6.3/14.9	U8306

Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

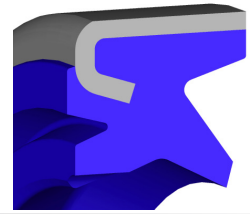
NAK STANDARD

WP58

APPLICATION: WIPER

MATERIAL: PU

UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
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38.10	57.15	10.5	U0655
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110	130	10	U9327
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120	140	10	U9326
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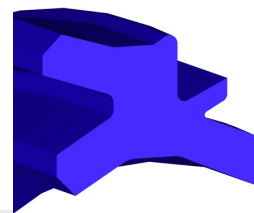
Shaft diam.	Bore diam.	Width diam	Drawing no.
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E4

NAK STANDARD

WP59

APPLICATION: WIPER
MATERIAL: PU
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam.	Drawing no.
109.5	120	5.7/9.2	U8412
128.5	139	5.7/9.2	U8411
150	160.5	5.7/9.2	U8410
171.5	183	6.5/10.3	U8414
195	206.5	6.5/10.3	U8415

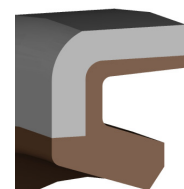
Shaft diam.	Bore diam.	Width diam.	Drawing no.

E4

NAK STANDARD

WPB

**APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: MET**



Shaft diam.	Bore diam.	Width diam	Drawing no.
9	16	3.3	U7176
10	14	3	U8628
10	16	3.3	U6984
12	16	3	U8175
15	21	3.2	U7778
16	26	7/9.5	23530
20	28	4.7	U7910
25	33	4.7	U8078
25	35	4.8	09147
30	37	3.5	U2654
33	45	6.5/8	
36	45.5	5.8	U8385
40	50	12	28644
40	55	9	A0554
44.45	62	9.52	U1543
45	55	3.18	U5899
50	60	5	U00166
50	60	11.5	23341
50	62	6.8	U8431
50.80	68.263	9.50	U1544
52	62	7	15100
57.15	76.20	9.52	U1545
60	70	5	U7399
63.5	82.55	9.52	U4855
65	79	8	A0503
65	80	5	U4914
65	82.5	11.5	23342
69.85	82.55	6.35	U7035

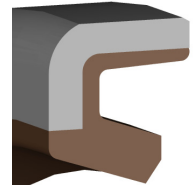
Shaft diam.	Bore diam.	Width diam	Drawing no.
69.85	95.25	12.70	U1546
70	85	4	U6947
73.03	85.62	6.5	U00116
75	87	5	U3409
76.20	101.60	12.70	U1547
80	90	3.18	00775
80	95	4	U6946
80	95	5	U5737
82.55	107.95	12.70	U1548
85	99	8	A0502
88.90	114.30	12.70	U1549
90	105	6	U3923
100	114	8	A0505
100	115	7	U3924
101.60	127.00	14.29	U1550
115	135	6/9	U1556
115	135	6	U7303
125	140	7	12031
125	168	18	U5214
131	152.4	6.35	05106
133	152.4	6.35	U1769

E4

NAK STANDARD

WPB

APPLICATION: WIPER
 MATERIAL: NBR / FKM
 UNIT: INCH



E4

Shaft diam.	Bore diam.	Width diam	Drawing no.
0.312	0.562	0.125	U9181
0.375	0.563	0.094	U5321
0.500	0.750	0.125	U9182
0.625	1.125	0.125	44357
0.750	1.250	0.313	14877
1.000	1.500	0.313	14876
1.063	1.500	0.187	U1986
1.125	1.500	0.188	U9732
1.125	1.500	0.191	U7659
1.125	1.625	0.188	U3675
1.250	1.625	0.187	U1985
1.250	1.688	0.187	U6753
1.250	1.750	0.250	U8122
1.250	1.750	0.313	15021
1.375	1.875	0.313	14865
1.500	1.875	0.187	07865
1.500	1.875	0.188	
1.500	1.875	0.250	U9589
1.500	2.000	0.250	
1.500	2.000	0.313	14866
1.500	2.250	0.375	U7021
1.750	2.125	0.187	07867
1.750	2.250	0.250	
1.750	2.250	0.313	14882
1.875	2.250	0.188	05198
2.000	2.375	0.187	07866
2.000	2.500	0.250	U4875
2.000	2.500	0.313	14881

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.000	2.688	0.250	U3650
2.125	2.500	0.188	
2.250	2.625	0.189	U4791
2.250	2.750	0.250	U4876
2.250	2.750	0.313	U3677
2.500	3.000	0.188	U4846
2.500	3.000	0.313	14880
2.625	3.125	0.250	U4847
2.750	3.250	0.313	U3678
3.000	3.500	0.313	14879
3.250	3.750	0.313	U4849
3.500	4.000	0.310	U7015
3.500	4.000	0.313	U3676
3.500	4.125	0.313	14878
3.500	4.250	0.313	U4848
3.750	4.375	0.313	U4850
3.750	4.500	0.312	U9616
4.000	4.500	0.250	14862
4.000	4.625	0.313	U4851
4.000	4.750	0.313	U4852
4.250	4.813	0.275	08769
4.500	5.250	0.313	U4853
4.750	5.375	0.313	U4854
5.000	5.750	0.313	21915

NAK STANDARD

WPB3

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
1.125	1.625	0.250	U9102
1.187	1.625	0.250	U9103
1.250	1.500	0.125	U9104
1.250	1.625	0.250	U9105
1.250	1.687	0.187	U9106
1.250	1.750	0.250	U9068
1.250	1.875	0.250	U9117
1.375	1.625	0.125	U9115
1.375	1.750	0.187	U9116
1.375	1.875	0.250	U9125
1.375	1.937	0.250	U9142
1.500	1.750	0.125	U9168
1.500	1.875	0.187	U9154
1.500	1.875	0.250	U9153
1.500	2.000	0.187	U9164
1.500	2.000	0.250	U9059
1.625	2.000	0.187	U9069
1.625	2.125	0.250	U9079
1.750	2.125	0.187	U9070
1.750	2.250	0.250	U9130
1.750	2.375	0.250	U9071
1.750	2.625	0.250	U9139
1.875	2.250	0.187	U9140
1.875	2.500	0.250	U9141
2.000	2.375	0.187	U9161
2.000	2.500	0.250	U9165
2.000	2.625	0.250	U9163
2.000	2.687	0.375	U9162

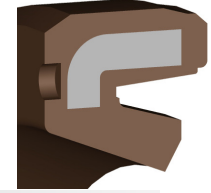
Shaft diam.	Bore diam.	Width diam	Drawing no.
2.125	2.500	0.187	U9127
2.250	2.625	0.250	U9167
2.250	2.750	0.250	U9152
2.250	2.875	0.250	U9166
2.500	3.000	0.250	U9128
2.500	3.125	0.250	U9129
2.750	3.125	0.187	U9136
2.750	3.250	0.250	U9137
2.875	3.375	0.250	U9138
3.000	3.500	0.250	U9158
3.500	4.000	0.250	U9060

E4

NAK STANDARD

WPC

APPLICATION : WIPER
MATERIAL: NBR / FKM
UNIT: METRIC / INCH



E4

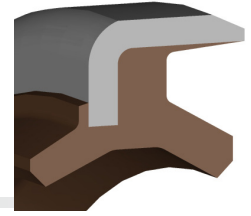
Shaft diam.	Bore diam.	Width diam.	Drawing no.
8	14	4	
10	17.4	7.8	U5135
10.2	16	6	U5271
17	30	7	U6063
22	32	7	
23.3	29.7	4	U7196
29	38.1	6	U00161
30.16	38	5	U00263
37	52.5	8	11571
42	52	5.5	08621

Shaft diam.	Bore diam.	Width diam.	Drawing no.
0.625	1.125	0.250	09028
1.250	1.688	0.375	09026
1.375	1.875	0.250	
1.500	2.000	0.250	09027
1.750	2.250	0.250	
2.125	2.500	0.188	02264
2.250	2.750	0.250	

NAK STANDARD

WPK

APPLICATION : WIPER
 MATERIAL: NBR / FKM
 UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
10	16	3/4.5	U6927
16	26	5/8	U6942
16	26	7/10	U5312
17	23	4/5	U8322
19	27	4/6	U5155
20	28	3.5/5	19444
20	32	6/9	U3884
22	30	3.5/5	19443
22	32	6/9	U1747
25	37	6/9	14264
25.35	32	4/6	U5154
25.35	35	6/8	23754
28	35	4/5.5	U00219
28	35	4/6	U5015
28	35	4/6	U5015
28	38	7/10	U7003
28.5	43.5	7/10	16274
30	40	7/10	U6943
30	42	6/9	14253
30	45	6/9	U1748
32	40	4/7	U4763
32	42	5/7	U4391
32	44	7/10	U00016
32	45	7/10	U7002
35	45	7/10	U4387
35	47	7/10	14055
36	46	7/10	U3883
38	48	7/10	U3882

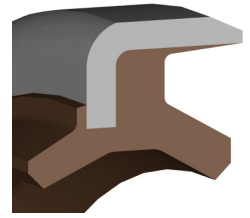
Shaft diam.	Bore diam.	Width diam	Drawing no.
40	52	7/10	14054
42	50	4/7	U4762
45	57	7/10	29556
50	58	8/10	U5992
50	60	7/10	U6944
50	62	7/10	29557
50	64	8/11	U7489
52	62	7/10	U4427
55	65	7/10	U4390
55	69	8/11	U3706
60	74	8/11	U3707
65	79	8/11	U3879
70	84	8/11	U3880
75	89	8/11	29558
80	94	8/11	29625
90	104	8/11	U3710
95	109	8/11	U3711
100	114	8/11	U3712
105	121	9/12	U1572
110	126	9/12	U3713
115	131	9/12	U1573
120	136	9/12	U1574
125	141	9/12	U1575

E4

NAK STANDARD

WPK

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: INCH



Shaft diam.	Bore diam.	Width diam.	Drawing no.
1.750	2.215	0.236/0.315	U8375
2.000	2.623	0.250/0.297	20305
3.500	4.000	0.313/0.431	U5697

Shaft diam.	Bore diam.	Width diam.	Drawing no.

E4

NAK STANDARD

WPK 1

**APPLICATION: WIPER
 MATERIAL: NBR
 UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
30	40	4	U6804
35	45	4	U6805
40	50	5	U7016
45	55	5	U6293
45	55	6	U6294
50	60	5	U5679
50	65	6	U6295
55	70	5.5	U5678
55	70	6	U6296
60	75	6	U7338
65	80	6	U5052
70	85	6	U4743
75	90	6	U5051
75	95	7	U7203
80	95	6	U5050
90	105	6	U4944
90	110	9.5	U7269
95	110	8	U5049
95	110	9.5	U7339
100	115	8	U4945
100	120	8	U7227
105	120	8	U5046
110	125	8	U5048
110	125	9.5	U5578
110	130	8	U7202
110	130	9.5	U7340
120	135	8	U5047
120	135	9.5	U5211

Shaft diam.	Bore diam.	Width diam	Drawing no.
120	140	8	U5681
120	140	9.5	U7228
125	145	9.5	U7226
130	155	9.5	U5212
140	160	8	U5680
140	170	9.5	U8327
145	160	8	U5213
150	180	8	U6806
200	215	8	U6534
200	225	8	U6535
210	225	8	U6536
210	240	9.5	U5127
260	290	9.5	U5020
290	320	9.5	U5019
360	390	9.5	U7762

E4

NAK STANDARD

WPK3

APPLICATION : WIPER

MATERIAL: NBR

UNIT: METRIC



E4

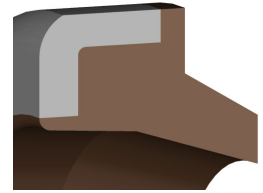
Shaft diam.	Bore diam.	Width diam	Drawing no.
35	45	4	U7518
35	45	5	U00082
45	55	5	U7521
45	55	6	U7522
50	65	6	U7543
55	65	5	U8653
55	70	6	U7524
65	80	6	U7544
70	85	6	U7523
75	90	6	U7599
75	95	7	U7693
80	95	6	U7502
90	105	6	U7525
90	110	9.5	U7626
100	115	8	U7501
100	120	8	U7627
110	125	8	U7600
110	125	9.5	U7541
120	135	8	U7542
120	135	9.5	U7640
120	140	9.5	U7625
125	145	9.5	U7728
140	165	9.5	U9336
140	170	9.5	U8095
145	170	9.5	U9279
150	170	8	
150	180	9.5	U9337
155	185	9.5	U9451

Shaft diam.	Bore diam.	Width diam	Drawing no.

NAK STANDARD

WPM

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
5	10	3/4	U7509
6	13	3/4.5	19528
6.3	13	3/4.5	U4800
8	14	3.3/5	U5956
8	14	3.5/5	14425
8	14	3.5/5	14425
8	15	3/5	U6549
8	22	3/4.5	21351
9.5	14.2	3/4	U9232
10	16	3/4.5	U1713
10	16	3/4.5	U4388
10	16	3.5/5	U5809
10	16	5/7	18274
10	18	5/8	U2986
10	20	4/6	U3887
10	20	5/7	U6586
10	20	5/8	U4178
10	20	5/8	
12	18	3/4	U4179
12	18	3.5/5	U3885
12	18	3.5/5	U5108
12	18	4/6	U5918
12	20	4/6	24186
12	20	4/6	24825
12	22	5/8	U1749
12	22	5/8	U1749
12	25	5/8	U1681
12.7	18	3/4.5	U4517

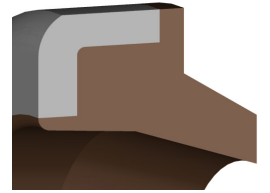
Shaft diam.	Bore diam.	Width diam	Drawing no.
14	19.8	3/4.5	U5957
14	20	3.5/5	U5919
14	20	4/5	13864
14	22	3/4	U1771
14	25	5/8	U1830
14	25	5/8	U1830
15	21	3.5/5	U5920
15	23	4/7	U2885
15	25	5/8	21440
15	25	7/10	U1680
16	20	3/4	U5145
16	22	3/4.5	19856
16	22	3/4	U1408
16	22	3/4	39531
16	22	3.5/5	U4180
16	24	3/4	U5917
16	26	5/8	U1258
16	26	5/8	U1258
16	26	7/10	15392
16	28	5/8	U3429
17	22	5/7	09891
17	22	5/8	U5320
17	28	6.5/11	U9620
18	26	3/4	U00076
18	26	4/6.5	U7126
18	26	5/7	07663
18	28	5/7	U1896
18	28	5/8	U9007

E4

NAK STANDARD

WPM

APPLICATION: WIPER
 MATERIAL: NBR / FKM
 UNIT: METRIC



E4

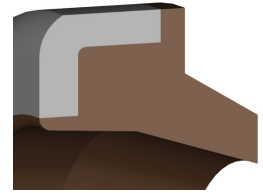
Shaft diam.	Bore diam.	Width diam	Drawing no.
18	28	7/10	15409
18	28	7/12	04970
18	32	5/8	U5949
19	26	4/6	U2408
19	26	5/8	U6728
19	27	6.4/9.5	U5580
19.05	25.4	3.17/5.55	U1585
19.05	28.57	4.76/7.14	07475
20	26	3.5/5	U5958
20	26	4/7	11457
20	26	5/8	23603
20	27	7/10	U1409
20	28	3.5/5	23925
20	28	3.5/5	U1741
20	28	5/8	U1554
20	28	5/8	U1554
20	30	4/6	U5142
20	30	5/7	U1699
20	30	5/8	20362
20	30	5/8	20362
20	30	7/10	02170
20	30	7/10	27017
20	32	7/10	U3431
20	35	7/10	U1678
21	28	3.5/5.5	U4363
21	28	3.5/5	U5950
21	28	4.8/9	U7766
22	28	5/8	U4181

Shaft diam.	Bore diam.	Width diam	Drawing no.
22	28	5/9	U4005
22	28	5/9	U4005
22	30	4/6	U5959
22	30	5/8	23818
22	30	6/11	U6690
22	32	4/6	U1866
22	32	5/8	24156
22	32	7/10	
22	35	5/8	01706
23	33	5/8	U5948
24	32	5/7	18339
24	32	5/8	U6587
24	35	5/8	23726
24	35	5/8	23726
24	35	7/10	14354
25	31	5/7	U2836
25	33	4/7	U5767
25	35	3/4	08156
25	35	5/7	U5257
25	35	5/7	16241
25	35	5/8	U9362
25	35	7/10	U1370
25	35	7/8.8	11074
25	35	7/8	09649
25	37	6/9	16894
25	43	5/7	U3600
25.4	33.34	4.76/6.35	U3025
25.4	34	5/8	U1233

NAK STANDARD

WPM

APPLICATION: WIPER
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UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
25.4	34.92	4.76/6.35	U6591
26	34	5/8	U4182
26	35	7/10	13893
26	40	7/10	
28	34	5/7	08155
28	38	5/8	U1727
28	38	5/8	U1727
28	38	7/10	16893
28	40	7/10	21287
28	42	7/10	U9028
28	45	7/10	U5960
29.5	40	7/10	09198
30	40	5/7	09650
30	40	5/8	20911
30	40	5/8	20911
30	40	7/10	U7033
30	40	7/10	U1739
30	42	5/8	19920
30	42	7/10	U1715
30	45	5/8	08712
30	45	7/10	U6971
32	40	4/7	06440
32	40	7/10	U1410
32	42	4/6	U1704
32	42	5/7	U1731
32	42	5/7	U1731
32	42	5/8	U9029
32	42	7/10	21288

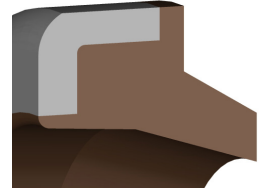
Shaft diam.	Bore diam.	Width diam	Drawing no.
32	45	4/8	U4183
32	45	4/8	21593
32	45	5/8	U1679
32	45	7/10	20618
32	50	7/10	U1695
33	43	7/10	U9008
35	45	5/7	U4428
35	45	7/10	U1186
35	47	7/10	09648
35	47	7/10	09648
35	48	5/8	22803
35	48	6.5/12	U1576
35	50	9/12	U1676
35	52	7/10	U1675
36	45	7/10	U1730
36	45	7/10	U1730
36	46	5/7	U4184
36	46	5/7	U1751
36	46	7/10	20646
37	47	5/8	U1906
38	48	7/10	24088
38	48	7/10	24088
38	53	5/8	U5018
39.5	50	7/10	09199
40	50	3.5/5	U1712
40	50	5/10	11928
40	50	5/7	U2729
40	50	5/7	26420

E4

NAK STANDARD

WPM

APPLICATION: WIPER
 MATERIAL: NBR / FKM
 UNIT: METRIC



E4

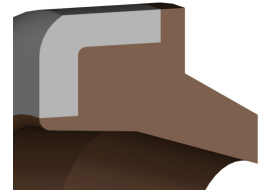
Shaft diam.	Bore diam.	Width diam	Drawing no.
40	50	5/8	05073
40	50	7/10	24189
40	50	7/10	16237
40	52	5/8	U4185
40	52	7/10	19216
40	53	5/8	U7244
40	55	9/12	U1677
40	62	7/10	24515
42	52	5/7	U5921
42	52	7/10	30525
42	52	7/10	30525
44	55	5/8	24513
45	55	5/7	U4186
45	55	7/10	U2845
45	55	7/10	U00206
45	57	7/10	22692
45	60	7/10	
47	57	7/10	16822
48	60	7/10	23727
50	56	4/6	U1674
50	56	5/7	24187
50	56	5/7	24187
50	56	5/8	U7128
50	60	5/7	13016
50	60	5/8	U1189
50	60	5/8	U1189
50	60	7/10	23387
50	60	7/10	16236

Shaft diam.	Bore diam.	Width diam	Drawing no.
50	62	5/7	U6585
50	62	7/10	U6998
50	63	7/10	U2584
50	63	8/10	09646
50	65	5/7	16904
50	65	5/8	U1702
50	65	7/10	U9879
50	65	7/10	U9879
50	65	8/10	09645
50	70	7/10	12178
50	72	8/11	
50.8	63.5	7/10	
52	62	7/10	
55	63	7/10	
55	65	5/7	
55	65	5/8	
55	65	7/10	U2923
55	65	7/10	U2923
55	70	7/10	U6597
55	80	5/8	24315
56	65	7/10	U1673
56	65	7/10	U1673
56	66	5/7	U6674
56	66	7/10	23728
56	66	7/10	U3331
56	70	8/10	U6584
60	68	5/8	U5234
60	70	5/7	14920

NAK STANDARD

WPM

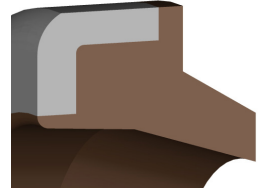
**APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC**



Shaft diam.	Bore diam.	Width diam	Drawing no.
60	70	7/10	U1930
60	70	7/10	U1823
60	70	8/10	09644
60	74	5/8	U1732
60	74	5/8	U1732
60	75	7/10	21439
60	78	11/15	U9124
60	80	7/10	U1719
62	72	7/10	21098
63	73	5/7	U5922
63	73	7/10	U1716
63	75	7/10	14475
63	75	7/10	14475
63	78	7/10	U9532
63	83	5/8	U5753
65	75	5/7	U4187
65	75	7/10	U1419
65	75	7/10	U1419
70	80	5/7	09896
70	80	7/10	35828
70	80	7/10	35828
70	84	7/10	U7403
70	90	7/10	22095
72	82	7/10	U6339
73	89	7/10	24316
74	85	7/10	U2624
75	83	7/10	U9003
75	85	7/10	U6975

Shaft diam.	Bore diam.	Width diam	Drawing no.
78	88	7/10	13573
80	88	7/10	U5752
80	90	7/10	U1742
80	90	7/10	U1742
80	100	12/15	U4748
82.55	92	7/10	13366
84	94	5/8	24317
85	95	7/10	U1697
85	95	7/10	U1697
88	100	7/10	U5786
90	100	5/7	U7127
90	100	7/10	20626
90	100	7/10	20626
90	100	8/10	09643
90	100	9/12	U2583
94	115	7/10	U2623
95	105	7/10	34208
95	106	7/10	U5993
100	110	5/8	23684
100	110	7/10	21886
100	110	7/10	21886
100	115	8/10	13504
105	115	7/10	22044
110	120	7/10	26691
110	120	7/10	
112	122	7/13	
115	125	7/10	U4188
120	130	7/10	38109

E4



E4

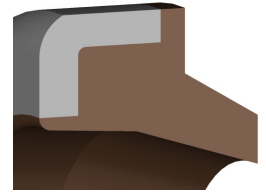
Shaft diam.	Bore diam.	Width diam	Drawing no.
120	130	7/10	38109
120	135	6/10	U2226
123	147	9/12	24318
125	140	7/10	24319
125	140	9/12	16122
125	145	9/12	14423
130	145	9/12	58759
130	145	9/12	58759
135	145	7/10	24320
135	150	9/12	55156
140	150	7/10	U7644
140	155	9/12	22006
145	160	9/12	
150	165	9/12	U9567
150	166	8/12	24367
160	175	9/12	21714
160	175	9/12	U1411
165	180	12/16	24366
170	185	9/12	14424
170	185	10/14	U8583
175	190	9/12	27049
175	190	9	27049
180	190	10/14	09642
180	195	10/14	39491
190	210	10/14	U2838
200	215	9/12	U1521
200	220	12/16	13998
210	230	12/16	U7080

Shaft diam.	Bore diam.	Width diam	Drawing no.
220	235	10/14	U9736
220	240	12/16	09654
230	255	12/16	22381
240	260	12/16	19669
250	270	12/16	U2622
270	295	12/16	U4153
275	300	12/16	16660
300	320	12/16	U1380
320	340	12/16	24365
400	420	12/16	U6555

NAK STANDARD

WPM

APPLICATION: WIPER
 MATERIAL: NBR / FKM
 UNIT: INCH



Shaft diam.	Bore diam.	Width diam	Drawing no.
0.750	1.125	0.188/0.281	15036
0.750	1.250	0.188/0.250	09927
0.875	1.250	0.188/0.281	15037
1.000	1.313	0.187/0.250	16377
1.000	1.375	0.187/0.250	11078
1.000	1.375	0.188/0.281	12029
1.000	1.375	0.219/0.297	
1.125	1.500	0.188/0.281	09394
1.250	1.625	0.188/0.281	06659
1.250	1.625	0.210/0.290	10842
1.500	1.875	0.188/0.281	13957
1.500	1.875	0.219/0.297	
1.750	2.125	0.188/0.281	06657
1.750	2.125	0.219/0.290	18606
2.000	2.375	0.188/0.281	06658
2.250	2.625	0.188/0.281	07674
2.500	2.875	0.188/0.281	07675
4.000	4.500	0.250/0.313	15035

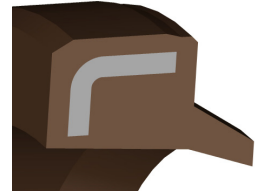
Shaft diam.	Bore diam.	Width diam	Drawing no.

E4

NAK STANDARD

WPR

APPLICATION : WIPER
 MATERIAL: NBR / FKM
 UNIT: METRIC



E4

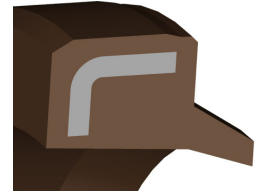
Shaft diam.	Bore diam.	Width diam	Drawing no.
6	13	3/4.5	06944
8	14	3.5/5	09693D
10	16	3.5/5	15099
10	16	3.5/5	12184
10	20	5/7	U4175
10	20	5/8	U3352
12	18	3.5/5	22668
12	18	3.5/5	22668
12	20	4/6	U3193
12	22	5/8	11134
12.5	17.5	3/4	U9233
12.7	18	3/4.5	U5787
14	20	3.5/5	14528
14	20	4/6	11204
14	22	3/4	U1821
15	21	3.5/5	11974
15	21	4/5	15032
15	25	5/7	11579
16	22	3/4	21068
16	22	3.5/5	U7734
16	22	3.5/5	U4694
16	22	4/6	U3194
16	24	3.5/5	U1512
16	26	5/8	U1820
18	24	4/6	16888
18	28	5/7	10375
18	28	7/10	U9996
18	30	7/9	U6841

Shaft diam.	Bore diam.	Width diam	Drawing no.
19	30	5/8	06485
20	28	3.5/5	24364
20	28	7/10	U2273
20	30	4/6	24362
20	30	5/7	14462
20	30	7/10	21188
20	35	7/10	16100
22	32	5/7	
22	32	7/10	06987
24	35	5/8	09161
25	32	5/7	U1693
25	33	4/7	U4420
25	35	5/7	
25	35	7/10	
25.4	34	5/8	20588
28	38	5/7	15374
28	40	7/10	U7386
28.57	52.38	9.52/12.70	15377
30	40	5/7	U2731
30	40	5/7	U3930
30	40	7/10	40516
30	42	6/9	
32	42	5/7	17242
32	42	5/7	17242
32	42	7/10	U1418
32	45	4/7	11482
32	45	7/10	20356
32	45	7/10	20356

NAK STANDARD

WPR

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
35	45	5/7	U2236
35	45	7/10	11608
36	45	7/10	13367
36	46	5/7	11312
38	48	7/10	12020
40	50	5/7	
40	50	5/8	54836
40	50	7/10	06441
42	52	5/7	09342
42	52	7/10	16411
44	55	7/10	08502
45	55	5/7	15029
45	55	7/10	
45	60	7/10	08572
48	60	7/10	09019
50	58	5/7	11628
50	60	5/7	13939
50	60	7/10	03619
50	65	7/10	16579
52	62	7/10	05863
55	63	7/10	U4176
55	65	5/7	18871
55	65	7/10	09395
56	66	5/7	27016
60	70	5/7	
60	70	7/10	
63	73	5/7	65298
63	73	5/7	19620

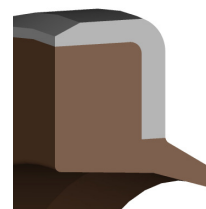
Shaft diam.	Bore diam.	Width diam	Drawing no.
63	75	7/10	24363
65	75	5/7	24505
65	75	7/10	08644
70	80	5/7	
70	80	7/10	U8228
75	83	7/10	11205
75	85	7/10	U1653
80	88	7/10	10053
80	90	7/10	
80	94	8/11	
85	95	7/10	16345
90	100	5/7	22972
90	100	7/10	19583
95	105	7/10	18323
100	110	7/10	15028
105	115	7/10	U4177
110	120	7/10	23105
115	125	7/10	15030
120	130	7/10	U1224
150	165	9/12	U1586
160	175	9/12	16657
180	195	10/14	U5112
200	220	12/16	15031

E4

NAK STANDARD

WPV

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
16	22	3/4	U4954
16	26	5/8	U5202
20	30	4/6	U4946
20	30	7/10	U4953
22	28	5/8	U4947
22	32	5/7	U4952
24	32	5/7	U5055
25	32	5/7	U8608
25	35	5/8	U4958
25	35	7/10	U4931
25	37	6/9	U4657
28	38	7/10	U4940
28	40	7/10	U4957
30	40	5/8	U5128
30	40	7/10	U4928
32	42	7/10	U4951
35	45	7/10	U4935
36	46	7/10	U4939
40	50	5/8	U4956
40	50	7/10	U4936
40	52	5/8	U5158
40	52	7/10	U4771
45	55	7/10	U4926
48	60	7/10	U4950
50	56	5/7	U4955
50	60	7/10	U4927
50	62	5/8	U5157
55	65	7/10	U4949

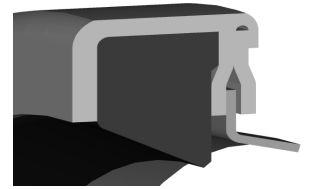
Shaft diam.	Bore diam.	Width diam	Drawing no.
56	66	7/10	U4938
60	70	7/10	U4941
63	73	7/10	U4948
65	75	7/10	U4932
70	80	7/10	U4930
70	90	7/10	U5203
80	90	7/10	U4933
90	100	7/10	U8938
100	110	7/10	U4934
110	120	7/10	U4937
120	130	7/10	U4929
150	165	9/12	U5201

E4

NAK STANDARD

MES

APPLICATION: WIPER
MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
12.7	25.4	6.35	54977
12.7	25.48	6.35	58278
14	27.05	7.14	50430
14	27.05	7.14	57596
16	29	6.5/7	20761
16	29	6.5/7	20761
16	29	6.5	65379
16	29	7	54978
18	31	7.14	50429
18	31	7.14	50428
20	33	6.5	53674
20	33	6.5	58064
20	33	7.14	61710
22	35	6.5	53673
25	38	7.14	56740
25	38	7.14	56741
25.4	38.1	7.14	57570
25.4	38.1	7.14	57537
28	38	6.5	50740
28	38	7.14	65803
28	40	7.5	47678
28	41	6.5	53672
28	41	6.7	32639
28	41	7	65377
28	41	7	65376
30	42	7.14	61711
30	42.7	7.14	56947
30	43	7.5	54974

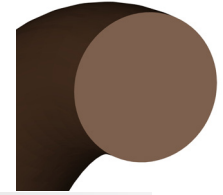
Shaft diam.	Bore diam.	Width diam	Drawing no.
32	44.5	7.14	58063
32	45	7	53671
32	45	7.5	39314
32	45	7.5	39314
35	47	7.5	54399
35	47.7	7.14	56930
35	47.7	7.14	56931
35	48	7	41210
35	48	7	54406
36	49	7	51322
36	49	7	58254
36	50	7.5	47662
40	51.95	7.14	66124
40	52	7.14	50735
40	52	7.14	50736
40	53	7.5	57536
40	53	7.5	57007
41.28	54.08	7.14	53670
44.45	57.25	7.14	61712
45	58	7	53370
45	58	7.5	65207
45	58	7.5	53367
50	64	7.5	54398
50	64	8	56948
50	65	7.14	53369
50	65	7.14	56953
50.8	63.5	7.3	54401
55	69	7.5	65378

E4

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: NCH



E5

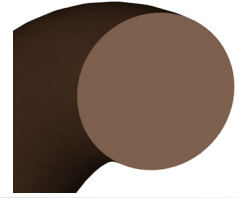
Shaft diam.	Bore diam.	Width diam	Drawing no.
0.74	1.02		R1001
0.90	0.95		R0441
1.0	0.6		
1.24	2.62		
1.4	0.6		R0265
1.5	1		
1.5	1.5		
1.8	1.0		
1.80	1.00		R0723
1.8	1.4		R0550
2	1		
2	1.35		
2	1.5		
2.1	1		
2.2	1		
2.2	1.6		
2.5	0.5		R0617
2.5	0.52		
2.5	1		
2.5	1.5		
2.5	1.5		
2.5	1.5		
2.7	1		
2.7	1.6		
2.75	1.6		
2.8	0.5		R0825
2.8	0.9		
2.8	1		

Shaft diam.	Bore diam.	Width diam	Drawing no.
2.8	1.4		
2.8	1.6		
2.90	1.78		
3	0.5		R0707
3	1		R0686
3	1		
3	1.5		
3	1.5		R0721
3.0	1.5		R0735
3.09	1.78		R00618
3.1	1.6		
3.2	1.5		
3.22	1.016		
3.3	1.5		R0605
3.3	1.5		R0605
3.5	1		R0334
3.5	1.0		R0787
3.5	1.1		
3.5	1.5		
3.5	1.5		R0380
3.5	1.78		
3.6	1.9		R00417
3.68	1.78		R1007
3.69	1.78		R0808
3.7	1.1		R0270
3.75	2.5		
3.8	0.6		
3.8	1.4		R0625

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
3.8	1.5		
3.8	1.9		
3.9	1.15		R00127
4	1		
4.0	1		R0525
4.0	1.2		
4.0	1.2		
4	1.5		
4	1.5		
4	2		
4	2		
4	2		
4	2		R00208
4	2.5		R00027
4	3		
4.00	144.60		
4.1	1		51276
4.1	1.3		R0507
4.1	1.78		R00537
4.2	1		
4.2	1		
4.5	1		R00601
4.5	1.8		
4.5	2		R0619
4.7	0.8		
4.7	2		R0472
4.8	1.5		
5	1		

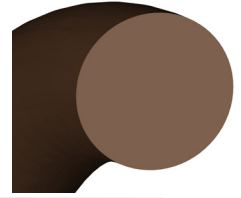
Shaft diam.	Bore diam.	Width diam	Drawing no.
5	1.5		
5	2		
5	2		
5	2		R00028
5	5		
5.1	1.6		R00088
5.23	2.62		
5.3	1.0		
5.3	1.2		
5.3	2.4		R8053
5.3	2.4		R8053
5.33	0.08		
5.5	1		R00346
5.5	1.0		
5.5	1.3		
5.5	1.4		
5.5	2		
5.63	2.24		
5.7	1.55		R00209
5.7	1.55		R00209
5.7	1.9		R00244
5.7	2		R00541
5.9	1.5		R00513
6	1		
6	1		R0121
6	1.0		R00044
6	1.1		
6	1.5		R0871

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

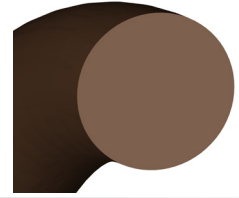
Shaft diam.	Bore diam.	Width diam.	Drawing no.
6	1.5		R0871
6	1.5		R00188
6	1.5		R00051
6	1.5		R0871
6	1.8		
6	1.9		R00441
6	2		R00110
6	2		
6	2		R00409
6	2		
6	2.15		
6	2.3		R0510
6	2.5		R00029
6	2.62		
6	3		
6	3		R00298
6	5		R0067
6.02	2.62		
6.07	1.78		R00588
6.1	1.2		
6.3	1.8		R0476
6.3	2.4		R0647
6.4	1.5		
6.4	1.5		
6.4	1.9		
6.5	1		
6.5	1.5		R00105
6.5	1.5		

Shaft diam.	Bore diam.	Width diam.	Drawing no.
6.5	2		R00528
6.7	1.8		
6.7	2.1		R0568
6.8	1.5		R0856
6.8	1.9		R00587
6.8	2		R0110
6.8	2		R00307
6.86	1.78		
7	1		
7	1.1		
7	1.5		
7	1.5		
7	1.7		R0091
7	1.7		R0197
7	2		R0450
7	2		R0450
7	2		
7	2.62		
7	3		
7	3.1		R00614
7.1	1.6		R00049
7.1	1.78		R00459
7.25	2.14		R0041
7.3	2.2		R0535
7.3	2.2		R0535
7.3	2.4		R0648
7.30	2.40		R0493
7.5	0.8		R0620

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
7.5	1		R00650
7.5	1.5		R0079
7.5	1.5		R0079
7.5	1.5		R00633
7.5	1.5		R0079
7.5	2		
7.5	2.0		
7.5	2.1		R0466
7.5	2.5		
7.6	1.9		R0991
7.6	2.4		
7.60	2.62		
7.65	1.78		R1011
7.65	1.78		
7.7	1.5		R00101
7.7	1.5		
7.7	1.9		R00668
7.7	1.9		R0656
7.7	2.3		R0657
7.7	2.3		
7.7	2.3		R0657
7.7	2.3		R00488
7.8	1.3		R0320
7.8	1.8		R0475
7.8	2.4		
7.8	3		
7.8	3.5		
7.9	3.1		R00275

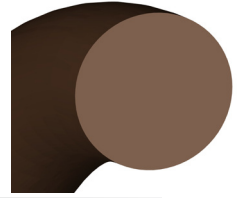
Shaft diam.	Bore diam.	Width diam	Drawing no.
8	1		
8	1.1		R0622
8.0	1.2		R0477
8	1.3		
8	1.5		
8	1.5		R00547
8	1.5		
8	1.5		R00566
8	1.8		R00122
8	2		
8	2		
8	2		R00521
8	2		R00521
8	2.1		R00337
8	2.5		
8	2.5		R0835
8	3		
8.1	1.6		R0628
8.1	4		R0993
8.11	1.65		R0139
8.2	1.8		R00418
8.3	2		
8.3	2.4		R0026
8.3	2.4		R00211
8.5	1		
8.5	1.7		
8.5	1.8		
8.5	1.95		R0513

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

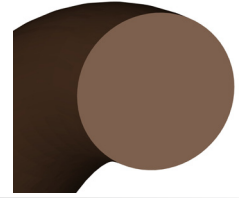
Shaft diam.	Bore diam.	Width diam	Drawing no.
8.5	1.95		R0943
8.5	1.95		R0513
8.5	1.95		R0736
8.5	2		
8.50	2.20		R00306
8.7	2.46		R00557
8.73	1.78		R00272
8.73	1.78		
8.73	1.78		R00272
8.8	2		
8.8	2.5		
8.9	2.62		R0785
9	1		
9.0	1.4		
9	1.5		
9	1.6		R0083
9	1.6		R0198
9	1.65		
9	1.7		R0109
9	1.8		
9	1.92		
9	2		
9	2		R00271
9	2		R00408
9	2		
9	2.5		R0891
9	2.5		
9	3		

Shaft diam.	Bore diam.	Width diam	Drawing no.
9	3		
9	3		
9.2	1.8		R0154
9.2	1.8		
9.2	3		
9.2	3.5		R0333
9.25	1.78		
9.3	1.0		
9.3	2.1		R00335
9.30	2.92		
9.4	2.4		R0090
9.4	2.5		
9.4	2.5		
9.4	3.53		R0610
9.4	3.53		R0610
9.4	3.53		R0610
9.5	1.5		
9.5	1.78		R00336
9.5	1.78		R0880
9.5	1.78		R00206
9.5	2		
9.5	2.4		R0608
9.5	2.5		
9.5	3.5		
9.5	3.6		R0368
9.6	1.5		R0013
9.6	1.9		R0983
9.6	1.9		R0798

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
9.6	1.9		R0798
9.6	2.4		
9.7	1.3		R0136
9.75	2.5		R00334
9.8	1.5		
9.8	1.5		
9.8	1.9		
9.8	1.9		
9.8	2.4		R0775
9.92	2.62		R00030
10	1		
10	1.4		
10	1.4		
10	1.5		
10	1.5		R00282
10	1.52		R00313
10	1.6		R0089
10	1.6		R0191
10	1.6		
10	1.78		R0439
10	1.78		R0439
10	2		R0237
10	2		R0237
10	2		R0237
10	2		R00269
10	2.3		
10	2.5		R00132
10	2.5		

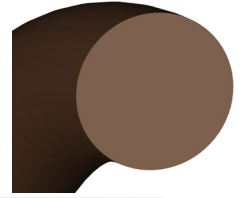
Shaft diam.	Bore diam.	Width diam	Drawing no.
10	3		R0520
10	3		R0520
10	3.5		
10	4.5		
10.1	1.1		
10.16	1.57		R0138
10.3	1.78		R00447
10.5	1.5		
10.5	2		
10.5	2		
10.5	2.7		R0033
10.6	3.5		
10.7	1.9		R00536
10.7	2.4		R0473
10.8	1		
10.8	1.1		
10.82	1.78		
10.9	1.76		R0561
10.98	2.62		R00212
11	1		
11	1.5		
11	1.9		R00248
11	1.9		
11	1.9		R0551
11	2		
11	2		R0822
11	2		R0822
11	2.5		R00534

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

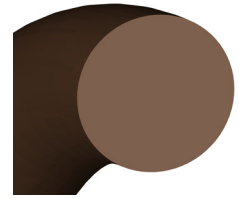
Shaft diam.	Bore diam.	Width diam.	Drawing no.
11	2.5		
11	2.5		
11	3		
11	3		
11	4		R0794
11	6.4		
11.08	2.5		R0364
11.1	1.78		R00518
11.10	1.78		R00518
11.1	2.5		R0606
11.2	1.35		R0778
11.25	1.78		R0137
11.3	1.3		R0085
11.3	1.5		R00554
11.3	2		R0733
11.3	2.0		R0915
11.3	2.4		R0649
11.35	3.2		R00637
11.5	1.5		
11.5	1.5		
11.5	2		R00333
11.5	2		R00529
11.5	2.21		R00560
11.5	2.4		R00240
11.5	2.5		R00535
11.5	2.5		R00158
11.5	3		R0826
11.63	1.35		R0032

Shaft diam.	Bore diam.	Width diam.	Drawing no.
11.7	2.65		
11.79	2.4		R0684
11.8	1.2		R0855
11.8	1.6		R0935
11.8	2		
11.8	2.4		
11.83	2.3		R0730
11.9	1.9		R00433
11.9	2.62		R00443
11.91	2.62		R0498
12	1.0		
12	1.45		
12	1.5		
12	1.5		R0623
12	1.8		
12	1.9		
12	2		R0058
12	2		R00123
12	2		R0058
12	2		R0058
12	2.45		R0789
12	2.5		
12	2.5		
12	3		R00221
12	3.5		
12.1	1.6		R00043
12.1	3		
12.16	1.74		R0937

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
12.2	1.8		R00427
12.2	2		R00533
12.2	2		
12.3	1.6		
12.3	2.16		
12.37	2.62		
12.4	1.8		
12.42	1.78		
12.42	1.78		R0031
12.5	1		
12.5	1		R00031
12.5	1.5		R00106
12.5	1.5		
12.5	1.5		R00553
12.5	2		
12.5	2.4		
12.5	3.53		R00304
12.7	1.95		R0916
12.8	2		R00239
12.8	2.1		
12.85	2.7		
12.9	1.9		
12.9	2.5		R0713
12.9	2.5		R0756
12.90	2.62		R00305
13	1		
13	1.5		
13	1.9		

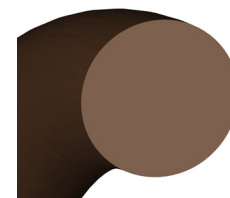
Shaft diam.	Bore diam.	Width diam	Drawing no.
13	2		R0918
13	2		R0918
13	2		R0918
13	2		R0918
13	2.2		R8087
13	2.4		R00644
13	2.5		
13	2.6		
13	2.6		
13	2.8		R0094
13	2.8		R0192
13	3		R0655
13.1	1		R0086
13.1	1.6		R0500
13.2	1.3		R0755
13.2	1.9		R0715
13.25	1.65		R00631
13.4	1.4		R0917
13.4	2.4		R00563
13.4	2.4		
13.5	1.4		
13.5	2		
13.5	2.2		
13.5	2.2		
13.6	1.65		R00268
13.7	1.36		
13.7	1.5		
13.7	2.62		R00266

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



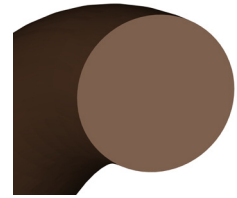
E5

Shaft diam.	Bore diam.	Width diam	Drawing no.
13.75	1.5		R00555
13.8	1.3		
13.8	1.9		R00638
13.8	1.9		R0548
13.8	2		R00270
13.8	2.48		
13.8	2.5		R00636
13.8	2.5		R0088
13.8	2.5		R0193
13.9	1.3		R00102
13.9	1.65		R00048
13.9	1.78		
13.9	2.62		R00530
13.94	2.62		
14	1		
14	1.3		
14	1.5		
14	1.5		R0765
14	1.78		R0764
14	1.8		
14	2		
14	2		R00567
14	2		R0502
14	2		
14	2.5		
14	3		
14	3.5		
14	4		R0268

Shaft diam.	Bore diam.	Width diam	Drawing no.
14.34	1.30		
14.4	2.8		R0770
14.4	2.8		R0770
14.5	1.5		R00556
14.5	1.5		
14.5	2		
14.5	2		R00204
14.5	2.5		R00312
14.5	2.5		R0838
14.5	2.62		R0602
14.5	4		
14.55	2.8		
14.63	3.08		
14.7	1.9		R00634
14.8	1.9		
14.8	1.9		
14.8	2.4		
14.8	2.5		R0549
14.9	2.3		
15	1		
15	1.5		R0037
15	1.5		
15	2		R0009
15	2		R0009
15	2		R0009
15	2		
15	2.5		R0674
15	2.5		R0674

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
15	2.7		
15	3		R0905
15	3		
15	3		R0905
15	3.5		R00166
15	5		R0806
15.08	2.05		R0680
15.08	2.62		R0147
15.1	2.57		
15.2	1.5		R0084
15.2	1.5		R0194
15.2	1.8		
15.2	2.5		
15.22	1.76		R00170
15.25	3		R00558
15.3	1.2		U7757
15.3	1.5		
15.3	2.2		
15.3	2.4		R0615
15.3	2.4		
15.3	2.5		R00455
15.3	2.5		R00487
15.36	2.73		R00178
15.4	2.1		
15.4	2.7		R00179
15.4	2.75		
15.5	1.5		
15.5	2		

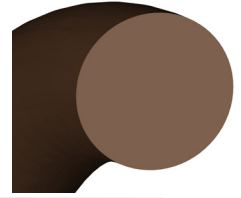
Shaft diam.	Bore diam.	Width diam	Drawing no.
15.5	2		R00238
15.5	2.4		R0739
15.5	2.5		R00422
15.54	2.62		
15.6	2.6		
15.7	2.0		R0930
15.7	2.4		R0840
15.75	1.8		R0474
15.82	2.4		R0607
15.9	19.9	2.0	R80018
16	1		
16	1		
16	1.5		
16	1.5		
16	1.6		R00099
16	1.7		R0455
16	2		R0017
16	2		R0017
16	2.1		R0984
16	2.4		R0591
16	2.5		
16	3		
16	3		
16	3		
16	3.5		
16	4		R00621
16	24	5	R0057
16.25	2.2		R00434

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



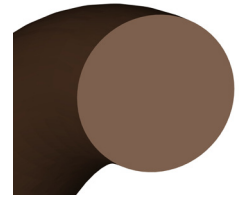
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Shaft diam.	Bore diam.	Width diam	Drawing no.
16.3	2.35		
16.5	3.9		
16.6	1.95		R0751
16.6	3.15		R0913
16.7	1.9		
16.7	1.9		
16.7	3.28		
16.7	3.38		R0556
16.7	3.5		
16.7	3.5		
16.8	1.5		
16.8	1.7		
16.8	1.9		R0851
16.8	2		R00415
16.8	3.1		
16.9	1.2		R00120
17	1		
17	1.2		
17	1.5		
17	1.5		
17	1.5		
17	2		
17	2		
17	2		
17	2		R0015
17	2.5		R0087
17	2.5		R0195
17	2.6		

Shaft diam.	Bore diam.	Width diam	Drawing no.
17	2.6		
17	3		R00625
17	3.5		R0867
17	4		R00611
17.04	2.62		R00181
17.17	2.62		R0546
17.3	2.4		R00103
17.5	1.5		R0776
17.5	2.5		R00538
17.5	2.5		
17.5	2.85		R0536
17.6	1.26		
17.75	2		R00318
17.9	1.85		R00590
18	1		R00604
18	1.5		
18	1.7		
18	2		R00100
18	2		
18	2		
18	2		
18	2.5		
18	2.5		
18	3		R0106
18	3		
18	3.5		
18	4		
18.2	1		

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



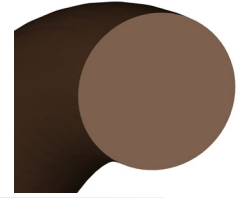
Shaft diam.	Bore diam.	Width diam	Drawing no.
18.2	1.6		R0816
18.2	2.62		R00148
18.2	3.5		R0947
18.3	2.0		R0924
18.3	2.4		R0948
18.3	3.6		R0027
18.4	1.8		R0746
18.5	1.9		R00311
18.5	2		
18.5	2		
18.5	2.5		R00559
18.6	1.78		R00509
18.6	1.9		R0914
18.65	3.53		R0586
18.7	2.0		R0919
18.72	2.62		
18.77	1.78		
18.8	1.9		R0925
18.8	2.6		
18.9	1.8		R00210
19	1.5		
19	1.85		
19	2		
19	2		R0650
19	2.5		
19	2.5		R00107
19	2.5		
19	3		R0969

Shaft diam.	Bore diam.	Width diam	Drawing no.
19	3		
19	3.5		
19.1	1.6		
19.2	2.5		
19.3	1.6		R0934
19.3	2.2		
19.3	2.62		R00075
19.4	2.46		R00176
19.4	3.1		
19.5	1.3		
19.5	1.75		R0456
19.5	2		
19.5	2.4		R00177
19.5	2.74		
19.7	1.6		
19.71	2.54		24149
19.71	2.54		
19.8	1.3		
19.8	1.9		
20	1		
20	1		
20	1.5		
20	1.5		
20	1.5		
20	1.5		
20	1.78		R0963
20	1.78		
20	1.9		R0614

E5

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

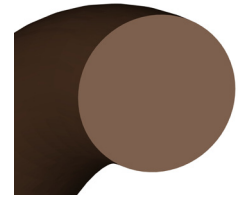
Shaft diam.	Bore diam.	Width diam	Drawing no.
20	2		R00108
20	2		R0396
20	2		R0396
20	2		R0396
20	2.2		R00331
20	2.5		R0097
20	2.5		R0196
20	2.5		R0097
20	2.8		R0696
20	2.8		
20	2.8		
20	3		
20	3.5		
20	4		
20	4.5		
20	6		R00608
20.2	2.4		R0985
20.29	2.62		47210
20.3	1.3		
20.3	1.5		
20.4	2.7		R00168
20.5	1		
20.5	1.5		R00220
20.5	1.5		R00195
20.5	3		R00542
20.5	3		
20.6	1.8		R0105
20.6	1.8		R0737

Shaft diam.	Bore diam.	Width diam	Drawing no.
20.6	1.9		R0942
20.6	2.8		
20.62	2.52		
20.7	1.51		
20.8	1.5		
21	1		
21	1.5		
21	2		
21	2.5		
21	3		
21	3		
21	3.53		
21.2	1.2		
21.2	2.4		R0659
21.2	2.4		R0659
21.2	2.5		R0754
21.2	3		R0766
21.25	3.35		
21.4	3.1		R00138
21.5	1.5		
21.5	2.0		
21.5	3		A2766
21.59	5.33		R1219
21.6	1.15		
21.7	3		
21.75	2		
21.8	1.9		R00672
21.82	2.7		

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
21.85	2.5		R00532
21.9	2.41		
21.9	2.62		
22	0.75		R0782
22	1.5		
22	2		R00076
22	2		R0244
22	2		R0244
22	2		R0244
22	2.5		
22	2.5		
22	3		
22	3		R00405
22	3.5		
22	3.78		
22	4		
22	5		
22.1	1.6		
22.2	1.6		R00032
22.22	2.62		R0899
22.22	2.62		
22.4	1.6		R0920
22.5	1.5		
22.5	1.63		
22.5	1.9		R0986
22.75	3.53		R00308
22.8	1.9		R0445
22.9	2		

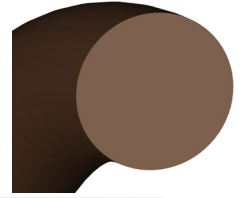
Shaft diam.	Bore diam.	Width diam	Drawing no.
23	1.0		
23	1.5		
23	1.8		R0742
23	2		
23	2.5		
23	2.6		R00666
23	3		
23	3		R0890
23	3.5		R0467
23	3.53		
23	4		R00089
23	4.5		
23.3	2.4		R0987
23.3	2.4		R0843
23.4	1.9		
23.4	1.9		R0949
23.4	1.9		R00458
23.5	2.1		R0660
23.5	2.1		R0660
23.6	1.90		
23.6	2.5		R00543
23.6	2.5		R00162
23.7	2.4		R0745
23.9	3.2		
23.9	4.95		R0864
24	1.5		
24	1.8		R00150
24	1.8		R0817

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



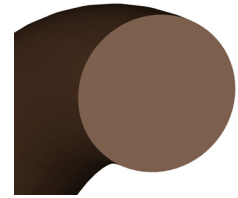
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Shaft diam.	Bore diam.	Width diam	Drawing no.
24	2		
24	2.2		R0437
24	2.4		R0747
24	2.5		
24	2.62		R00173
24	3		
24	3		
24	3		R00517
24	3		
24	3		
24	3.1		
24	3.1		
24	4		
24	4		R0269
24	5.2		
24.2	2.7		R00074
24.2	3.1		
24.35	2.47		
24.4	2.62		R00002
24.4	3.1		47209
24.5	2		
24.5	2.5		
24.5	2.5		
24.7	0.8		R0145
24.7	2.6		
24.7	3		R00265
24.7	3.0		
24.7	3.5		R0995

Shaft diam.	Bore diam.	Width diam	Drawing no.
24.7	3.5		
24.8	1.5		
24.8	1.5		
25	1		
25	1		
25	1.5		
25	1.6		
25	1.6		
25	2		
25	2		
25	2		
25	2.4		R0107
25	2.4		R0107
25	2.5		R00016
25	2.5		
25	2.62		
25	3		
25	3		
25	3		
25	3.5		
25	4		
25	4.5		
25	5		
25	5.5		R0486
25	6		R00486
25	6.0		R00486
25.1	1.6		R00033
25.1	2.3		R0752

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
25.1	3.1		R0392
25.2	2.5		R00289
25.4	2		
25.5	1.4		R00020
25.5	1.5		
25.5	1.78		
25.5	1.78		
25.5	4		
25.5	4.2		R00140
25.7	3.5		R00635
25.8	2.4		
25.8	3		
25.8	3.53		
25.9	1.8		R0911
26	1		
26	1.5		
26	2		
26	2		R00285
26	2.2		R0438
26	2.5		
26	3		
26	3.5		
26.2	1.9		R0889
26.5	2		R00118
26.5	2.65		R00361
26.5	2.7		R00073
26.59	3		
26.65	2.62		R00342

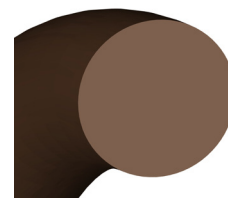
Shaft diam.	Bore diam.	Width diam	Drawing no.
26.65	2.62		R1070
26.7	1.78		R1023
26.70	1.78		R1023
26.7	1.9		R0950
26.7	3.4		
26.7	3.5		R0946
27	1.5		
27	1.5		
27	2		R0999
27	2		R0080
27	2.2		R00189
27	2.4		R00059
27	2.5		
27	2.62		U1369
27	3		
27	3.2		R00273
27	3.5		
27	4		
27	4.5		
27	5		
27	6		
27.09	1.78		R0814
27.1	2.4		R0748
27.2	2.5		
27.2	3		R00317
27.24	2.62		R00501
27.4	2.4		R0096
27.5	2.1		R0725

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



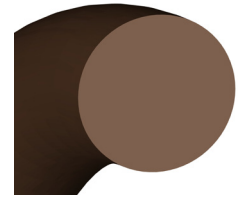
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Shaft diam.	Bore diam.	Width diam	Drawing no.
27.6	1.9		R0053
27.7	3.45		R0366
27.72	3.27		
27.75	3.15		R0365
28	1		
28	1.8		R00092
28	1.9		
28	2		R00264
28	2.5		
28	2.62		
28	2.65		R0846
28	3		
28	3.5		R00164
28	4		
28	4		
28	4.0		R00052
28	4.08		R0938
28.24	2.62		
28.3	2.4		R0951
28.5	2.5		R00245
28.6	3.1		
28.9	3.1		
29	1		R00329
29	1.5		
29	2		
29	2		
29	2.5		
29	2.5		

Shaft diam.	Bore diam.	Width diam	Drawing no.
29.1	1		R0100
29.2	3		R0998
29.3	2.4		R0952
29.5	1.5		
29.57	2.7		
29.6	1.8		R00653
29.6	2		R00525
29.6	2.7		R00072
29.7	3.5		R0997
29.8	2.5		
29.8	2.5		
29.82	2.62		R00276
29.9	2.0		R00019
30	1		R0888
30	1.5		R00602
30	2		
30	2.5		
30	2.62		
30	3		
30	3		
30	3.5		
30	4		
30	4		R0703
30	4		
30	4.5		
30	5		
30	6		R00591
30.2	3.2		

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
30.26	2.62		R00401
30.26	2.62		R00401
30.3	2.4		R0953
30.5	2.2		R00135
30.5	2.6		R0029
30.5	2.62		R00062
30.5	3		
30.8	3.2		R0081
30.98	1.78		R00243
31	1		R6019
31	1.3		R0860
31	1.5		
31	1.5		R00500
31	1.7		R0989
31	1.7		R0661
31	1.75		
31	1.9		R0941
31	2		
31	2		
31	2		R6020
31	2.5		R00083
31	2.7		R0990
31	2.7		R0662
31	3		
31	3		
31	3		R00398
31	4		
31	4.7		

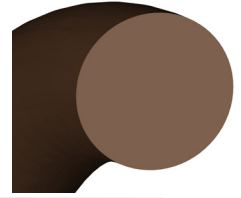
Shaft diam.	Bore diam.	Width diam	Drawing no.
31.19	1.87		
31.19	1.87		
31.2	1.5		
31.2	1.9		R00249
31.2	1.9		R0799
31.2	4.1		
31.3	2.7		R00172
31.4	2.2		R0975
31.42	2.62		28878
31.42	2.62		U1650
31.5	2		R00153
31.5	2		
31.5	3		
31.6	1		
31.6	1		
31.6	1.85		R00053
31.6	2.4		R2142
31.7	1.9		R0954
31.7	3.5		R0996
31.75	2.38		R0491
31.8	36	3	A1034
31.85	2		R0398
31.9	2.0		R00021
31.9	3.1		R00093
32	1		
32	1.5		
32	1.68		R00256
32	1.8		R0611

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

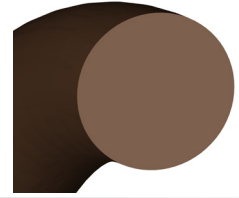
Shaft diam.	Bore diam.	Width diam	Drawing no.
32	1.9		R0663
32	2		
32	2		
32	2		
32	2.5		
32	2.5		
32	2.8		R00134
32	3		
32	3.5		
32	3.7		
32	3.70		
32	4		
32	5		
32	5		
32.5	1.2		R00661
32.5	1.9		R00257
32.5	1.9		R00257
32.5	2		R00520
32.5	2.5		
32.6	2.72		
32.7	1.3		R00097
32.7	2		
32.8	1.6		R00624
32.92	3.53		R0763
33	1.5		
33	1.9		R0664
33	1.9		R0664
33	2		

Shaft diam.	Bore diam.	Width diam	Drawing no.
33	2.5		
33	3		
33	3		
33	3		
33	3.5		R00394
33	3.5		R00394
33	4		
33	4.5		
33.1	2.2		R0558
33.3	2.4		
33.5	1.5		
33.5	2.0		
33.5	2.5		
33.5	3		R0199
33.5	3.7		R0564
33.6	2.35		R00652
33.6	4.75		R00498
33.68	1.75		R00620
33.7	1.9		
33.7	1.9		
33.75	2.21		R00540
33.8	2.57		R00161
33.8	2.7		
34	1.5		R00111
34	1.5		
34	1.9		R0992
34	1.9		R0665
34	1.9		R0665

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
34	2		
34	2		
34	2		
34	2.4		R0866
34	3		
34	3		
34	3		
34	3		R00034
34	3.5		
34	3.5		R0530
34	3.5		R0530
34	3.5		R0530
34	4		R00610
34	4		R00610
34	5		
34.1	3.2		R00155
34.1	3.6		
34.4	3.1		R00139
34.5	1		
34.5	1.2		
34.5	2.5		
34.52	3.5		
34.6	1.5		R00040
34.7	2.4		R00057
34.8	2.6		
34.8	3.6		R00646
35	1.5		
35	2		R0545

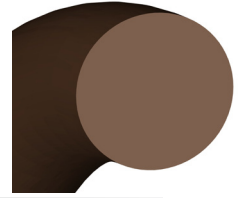
Shaft diam.	Bore diam.	Width diam	Drawing no.
35	2		A0391
35	2		
35	2		
35	2.5		
35	2.5		
35	3		R0095
35	3.5		
35	4		
35	4		
35	4		
35	4.5		
35	5		
35	6		
35	7		
35.2	2.4		R0955
35.4	3.1		R0363
35.5	1.0		R0547
35.5	1.75		R0848
35.5	1.9		R0976
35.5	2		
35.5	2.63		
35.5	2.65		
35.5	3.15		R00300
35.6	2.62		R00001
35.6	3.6		
35.65	2.21		R00327
35.7	1.9		R0792
36	1.5		

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



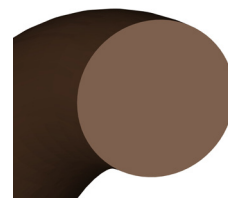
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Shaft diam.	Bore diam.	Width diam	Drawing no.
36	1.78		R00665
36	2		R00104
36	2		
36	2		
36	2.5		
36	3		
36	3		
36	4		
36	5		R0705
36	5.3		R0335
36.27	1.78		R00190
36.27	1.78		
36.3	2.72		R00163
36.5	2		R0590
36.5	2.62		R00009
36.5	3		R0727
36.7	1.9		
36.8	1.5		
36.8	2.0		R00258
36.8	2.45		R00407
36.9	2.3		R00451
37	1		
37	1.5		
37	1.5		R00283
37	2		
37	2		
37	2.25		R0892
37	2.5		

Shaft diam.	Bore diam.	Width diam	Drawing no.
37	3		
37	3		
37	3.2		R00281
37	3.5		
37	3.5		
37	4		
37	4.2		
37	4.5		
37.1	1.6		R0658
37.1	1.6		R0658
37.2	1.80		R0872
37.2	1.80		R0872
37.2	3.5		R00406
37.2	4		R00511
37.5	1.3		R0863
37.5	1.45		R0854
37.5	2		R0887
37.5	3		
37.5	4.2	3	A1032
37.69	3.5		R0578
37.8	3.5		R0972
38	1.5		
38	2		R0211
38	2		R0211
38	2		R0211
38	2.5		R00595
38	2.62		
38	2.8		

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
38	3		
38	3.5		R00263
38	4		
38	6		
38.1	1.8		R0054
38.2	2		R00302
38.4	1		R00017
38.4	2.62		R00196
38.5	2		R6014
38.7	2.65		R00225
38.7	3		R00247
38.8	1.9		
38.8	2.5		R00254
39	1		
39	1.5		
39	1.8		R00454
39	1.9		R0977
39	2		R00403
39	2		
39	2.62		R00436
39	3.0		
39	3.6		R0336
39	4		
39.2	2.5		
39.4	1.78		
39.5	1		R0063
39.5	1		R0063
39.5	2		

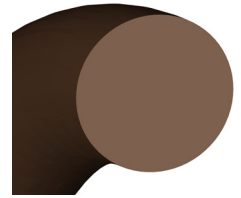
Shaft diam.	Bore diam.	Width diam	Drawing no.
39.6	2.4		R00058
39.6	3		R00499
39.7	2.4		R0690
39.7	2.4		R0749
39.8	2.2		R0666
39.8	2.2		R0666
39.8	2.2		R0666
40	1		R0882
40	1.5		
40	1.9		R0667
40	1.9		R0667
40	2		R00291
40	2.4		R00090
40	2.5		R00223
40	2.5		R00395
40	3		
40	3		
40	3		
40	3.5		
40	3.5		
40	4		
40	4.5		
40	5		
40	6		
40	8		
40.08	2.64		R0494
40.2	2.2		R0979
40.2	3		R0238

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

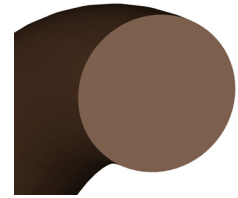
Shaft diam.	Bore diam.	Width diam	Drawing no.
40.5	1.5		R00430
40.7	1.4		R00152
40.7	1.5		R00280
40.7	1.5		
40.9	2.3		R00546
40.95	2.62		
41	2		
41	2.3		R0884
41	2.5		
41	3		
41	3		
41	4		
41	4.0		R00038
41	5		R0706
41	5.5		R0449
41.2	2.62		R00003
41.2	3.5		
41.2	4.0		R00054
41.3	2.5		R00131
41.5	1.8		R0836
41.5	2		
41.5	2.4		R0956
41.7	2.05		R00260
41.7	2.5		R0183
42	1		
42	1.5		
42	2		
42	2		

Shaft diam.	Bore diam.	Width diam	Drawing no.
42	2.4		
42	2.5		
42	2.5		R00230
42	2.5		
42	3		R0239
42	3		R0239
42	3		R00477
42	3.0		R00039
42	3.6		
42	4		
42.2	2.4		
42.2	3		R0653
42.2	45.5	1.65	A0348
42.2	45.5	1.65	A0348
42.3	3		
42.5	3		
42.5	3		
42.6	2.35		R0869
42.7	1		R0321
42.8	2.2		
42.86	3.53		
43	1.5		
43	2		
43	2		R00396
43	2.5		
43	2.62		R00233
43	2.62		
43	3		

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
43	3.0		
43	3.5		R0813
43	3.5		
43	4.5		
43	5		
43.5	2.4		R0957
44	1.5		R0883
44	2		R0691
44	2		R0691
44	2.5		
44	3		R0828
44	3.5		
44	3.72		
44	4		
44.12	2.62		R00344
44.2	2.3		R0744
44.2	3		R0654
44.2	5.7		
44.25	1.9		R00526
44.3	1.4		
44.3	2		R00352
44.5	1.85		
44.5	2		
44.5	2.4		R0958
44.5	2.8		
44.6	1.9		R0056
44.7	2.4		R00091
44.7	2.4		R0554

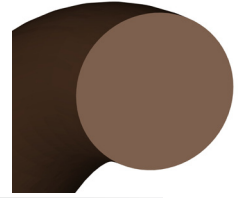
Shaft diam.	Bore diam.	Width diam	Drawing no.
44.8	1.5		R00410
45	1.5		
45	1.9		
45	2		
45	2		R00035
45	2.5		
45	2.62		R00612
45	2.7		
45	2.7		
45	3		
45	3.15		
45	3.5		R00627
45	4		
45	4		
45	4		
45	4.5		
45	5		
45	6		
45	8		
45.1	2.2		R0978
45.2	1.5		
45.2	2		R00234
45.3	2.6		R00412
45.3	5.7		
45.5	1.5		R00506
45.5	2		R0886
45.5	3.1		R0912
45.6	2.35		R0870

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

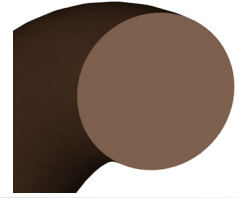
Shaft diam.	Bore diam.	Width diam	Drawing no.
45.7	3.10		R00345
46	1.5		
46	1.5		
46	2		
46	2.5		
46	2.62		R00613
46	3		R00274
46	3.5		
46	4		
46.5	1.50		
46.5	1.77		
46.5	2		
46.5	2.00		R00037
46.5	2.2		R00596
46.5	2.5		
46.5	3		
46.6	2		R00551
46.6	2.62		R00241
46.6	2.62		R00241
46.8	1.5		
46.8	2.0		R00025
46.8	2.2		R00664
46.8	2.2		R0668
47	1.5		
47	1.7		R0841
47	2		
47	2.0		R00085
47	2.2		R0959

Shaft diam.	Bore diam.	Width diam	Drawing no.
47	2.5		R0182
47	2.5		R0182
47	3		
47	3		
47	3.5		
47	4.5		
47	5		
47	6.4		R0542
47.1	2.5		R00231
47.30	2.62		
47.35	1.78		
47.5	3.15		
47.5	3.62		
47.6	2.62		R00354
47.8	3		R0839
48	1.42		R00242
48	1.5		
48	2		R00397
48	2		R00397
48	2.25		R0634
48	2.5		
48	3.0		
48	4		
48	4		R0704
48	4		
48	6		R0324
48.50	2.0		R0544
48.5	2.5		R00632

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
48.5	2.62		R00224
48.6	2.65		R00018
48.6	3.0		R0788
48.6	3.1		
48.8	5		
49	1.77		R0454
49	2		
49	3.53		
49.2	5.7		
49.3	2.5		R0842
49.4	1.0		R0038
49.4	1.0		R0038
49.5	2.5		
49.5	3		R00036
49.72	2.34		
49.8	1.5		
50	1.5		
50	2		R0543
50	2		R0543
50	2		R00476
50	2.5		
50	3		
50	3		
50	3.5		
50	4		
50	4.5		
50	5		
50	6		

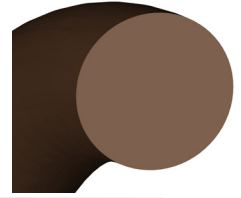
Shaft diam.	Bore diam.	Width diam	Drawing no.
50	8		
50.5	2.5		R00425
50.52	1.78		R1033
50.80	2.62		R00353
50.9	2.45		R0562
51	1.5		R00617
51	2		R00623
51	2.5		R00416
51	3		
51.1	2.4		R0877
51.5	1.5		
51.5	2.62		R00005
51.5	3.55		R00514
51.6	2.4		
51.62	3.13		
51.8	1.5		
51.82	1.5		
51.82	1.5		
52	2		
52	2		
52	2.2		R0960
52	2.5		
52	3		R0774
52	3		
52	3		
52.07	2.62		
52.07	2.62		
52.2	2		R0638

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



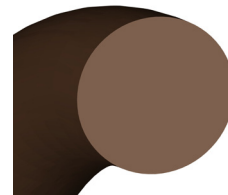
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Shaft diam.	Bore diam.	Width diam	Drawing no.
52.2	2.1		
52.3	2.4		R0928
52.5	1.78		
52.5	1.78		
52.5	2.62		R00228
52.75	3.15		R00023
53	2		
53	3		
53	3.5		
53	5		
53.1	1.8		R0932
53.1	1.8		R0936
53.2	1.8		R0908
53.3	1.78		R0714
53.5	2		
53.7	1.9		R00516
53.97	1.78		R0384
53.97	1.78		R0384
54	2		
54	2		
54	2.5		
54	3		
54	3.52		
54.2	3		
54.5	1.5		
54.5	1.8		
54.5	2.5		R00068
54.5	2.62		R00550

Shaft diam.	Bore diam.	Width diam	Drawing no.
54.5	3		
54.8	2.5		R00124
55	1		
55	2		
55	2.5		
55	2.5		
55	3		
55	3.5		
55	4		
55	5		
55	6		
55.5	1.78		R00277
55.5	1.8		R00146
55.5	2		R00193
56	2.5		
56	2.5		
56	3.0		
56	3.5		
56	8		
56.4	2.45		R0927
56.8	3.0		
56.87	1.78		R0922
57	1.5		
57	2		R00414
57	2.5		
57	2.8		R00156
57	4		
57	4.6		R00605

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
57	5		
57.2	2.8		R0731
57.3	2		R0849
57.4	7		R0717
57.5	2		
57.5	2		R00184
57.5	2.35		R0875
57.7	3.5		R00126
57.8	2.5		R00424
58	1.5		
58	1.78		R0716
58	2		
58	2		R00199
58	2.5		
58	2.62		
58	2.72		
58	3		
58	3		R0626
58	5		
58.4	1.78		R00577
58.4	2.4		R00510
58.8	2.62		R00356
58.92	3.14		
59	2.3		R0850
59	3.0		
59	3.5		R0468
59.2	2.5		
59.5	1.9		R0055

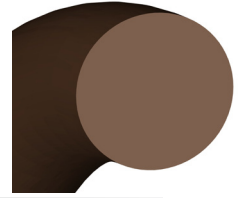
Shaft diam.	Bore diam.	Width diam	Drawing no.
59.5	2		R00109
59.5	2.62		R0994
59.60	2.45		R00362
59.69	5.33		
60	1.5		
60	1.9		
60	2		R00413
60	2.4		
60	2.5		
60	2.62		
60	3		
60	3.5		
60	4		
60	4.5		
60	4.6		R8138
60	5		
60	5		
60	6		
60	7		
60.25	1.78		R00316
60.5	3.0		
60.6	2.1		R00404
61	2.1		R00423
61	2.5		R0240
61	2.5		R00461
61	2.62		R00431
61	3		R0906
61	3		R0906

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

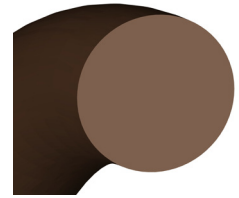
Shaft diam.	Bore diam.	Width diam	Drawing no.
61.3	3.1		
61.4	2.4		R0876
61.5	2		R00187
61.7	1.78		
61.9	3.53		R00491
62	1.5		
62	2		
62	2.5		
62	3		R0702
62	3		R0702
62	4		
62	5		
62	5.3		
62	8		R0783
62.3	1.2		R0040
62.3	1.2		R0040
62.5	2.3		
62.5	3.5		R0604
62.8	2.7		
63	2		
63	2.5		
63	3		R0093
63	3.5		
63	4		R0612
63	8		
63.5	1.85		R0926
63.5	1.9		R00147
63.5	3		R0378

Shaft diam.	Bore diam.	Width diam	Drawing no.
63.5	6.35		
63.8	3		R0603
64	1.78		R00545
64	2		
64	2.3		R0563
64	2.5		R00402
64	4		
64.2	2.6		R0758
64.5	2.62		R00071
64.5	3		
64.73	5.8		
65	2		R00426
65	2.5		
65	2.62		
65	3		R0827
65	3		R0499
65	3.5		
65	4		
65	4.5		
65	5		
65	6		
65.17	2.05		R00643
65.5	1.5		
65.5	2		R0845
65.6	2.4		
66	2		R0762
66	2		R0762
66	2.46		R0099

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
66	2.5		
66	2.5		
66	3		
66	3.0		
66	4		
66.5	1.50		R0847
67	1.5		
67	1.5		R00284
67	2		R00142
67	2		
67	2.5		
67	2.8		R00200
67	3		
67	3.5		
67	4		
67	8		
67.5	2		R8486
67.5	6.3		
67.6	2.4		
67.6	5.7		
67.8	2.25		R00507
68	2		
68	2.5		
68	2.62		
68	3.5		R00167
68	3.57		
68	6		
68	8		R0613

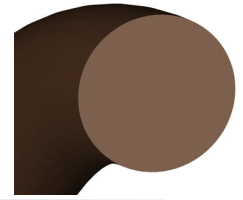
Shaft diam.	Bore diam.	Width diam	Drawing no.
68.1	3.5		R00647
68.45	2.83		
68.7	2.55		R00503
68.8	3.5		R00519
69	1		R00662
69	4		
69.18	3.14		R00175
69.2	5.7		R0641
69.4	3.1		
69.5	2		R00144
69.8	2.4		R0844
70	1.5		
70	2		
70	2.0		R00024
70	2.5		
70	2.62		R00355
70	3		
70	3.5		
70	4		
70	4.5		
70	5		
70	6		
70.1	2.7		R00438
70.5	2		R00143
70.5	2.5		
70.7	2		R0051
71	3		
71.12	2.62		R00343

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

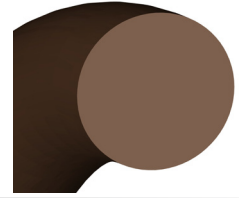
Shaft diam.	Bore diam.	Width diam	Drawing no.
71.5	2.4		R0741
71.5	3.1		R00505
71.7	2.5		
71.8	3.1		
72	2		R00600
72	2.5		R00098
72	2.5		
72	4		
72.5	2		R00448
72.5	3.1		
72.5	3.1		R00437
72.7	2.50		R0834
73	2		R00141
73	2.5		
73	3		
73	3.5		
73	4		R0609
73	5		
73.91	3.53		R0517
74	1		
74	1.78		R0771
74	2		R00055
74	3		
74.3	2.62		R0965
74.5	2.5		R00663
74.5	3.55		R0728
74.6	2.7		R00391
74.61	3.53		R00157

Shaft diam.	Bore diam.	Width diam	Drawing no.
75	2		R0760
75	2		45870
75	2.5		
75	3		
75	3.5		
75	4		
75	5		
75	6		
75.2	3.1		R00504
75.8	3.53		
76	2		R00050
76	4		
76.3	4.3		
76.6	1.65		R00171
76.7	3.1		
77	1.5		
77	2.35		
77.1	1.25		R0526
77.3	2.15		R00251
77.3	2.15		R00251
77.3	2.15		R00251
77.3	2.15		R00251
77.5	0.74		R00606
77.5	2		R0885
77.5	2.62		R00119
77.5	2.62		R00119
78	2		R00045
78	2.5		
78	2.62		R0964

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
78	3		
78.5	3		R00082
78.9	1.8		R0757
79	2		
79	2		
79	3.0		
79	5.5		R00165
79.2	1.2		R0034
79.2	1.2		R0034
80	2		
80	2.3		
80	2.4		R0726
80	2.5		U7187
80	2.5		
80	3		
80	3.5		
80	4		
80	5		
80	5		
80	6		
80	7		R0857
80	8		R0555
80.3	2.5		R00597
80.4	1.5		
80.4	1.85		R0833
80.8	2.8		R0832
81	2.4		R0779
81.92	3.53		

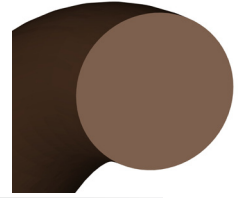
Shaft diam.	Bore diam.	Width diam	Drawing no.
82	2		R00570
82	2		R00570
82	3		
82.22	2.62		R0759
82.5	2.5		
83	2.4		R0729
83	2.4		R00253
83	3		R0210
83	3.5		
83	6		
83.35	2.5		R0740
83.5	3		R0465
84	2.5		R00112
84	2.5		R0750
84	3.5		
84	4		R0682
84.1	5.7		R0642
84.5	2.1		R0052
84.5	2.45		R0675
84.5	2.5		R0646
84.5	3.1		
85	1.25		R0868
85	2		
85	2		
85	2.1		
85	2.5		
85	2.62		
85	3		

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



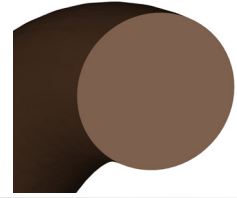
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Shaft diam.	Bore diam.	Width diam	Drawing no.
85	3.5		
85.0	3.58		
85	4		
85	5		
85	6		
85.35	1.78		R00213
85.5	2.4		
85.5	2.40		R00252
85.5	2.40		R00252
85.8	1.25		R0640
86	2		R0862
86	2.5		U0770
86	3		
86	3.6		
86	4		
86.7	3.1		R0961
86.7	3.1		R0961
87	3		R0767
87	5		
87.5	3.2		R00572
87.5	3.2		R00572
87.6	2.59		R0709
87.65	3.2/3.9		R0325
87.8	3		R0818
88	2		R00360
88	2.5		
88	2.62		R00227
88	3		

Shaft diam.	Bore diam.	Width diam	Drawing no.
88	3.5		R0587
88	4		
88.45	3.53		
88.5	2		R0697
88.85	3.25		R0322
89	2		R00359
89.1	5.7		R0643
89.3	2.62		R00203
89.5	2.4		R0823
89.8	2.5		R0837
90	2		R00222
90	2		
90	2.5		
90	3		
90	3.0		R00218
90	3.5		
90	4		R00609
90	4.5		
90	5		
90	5		
90	5.5		R00616
90	5.8		
91	2.2		
91	3.0		
91	3.15		
91	5		R0469
91.5	3.0		R0645
91.69	1.78		R0552

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



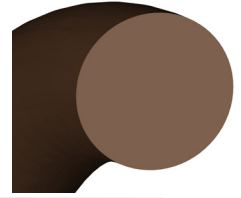
Shaft diam.	Bore diam.	Width diam	Drawing no.
92	2.2		R00667
92	3.0		
92	3.1		
92.2	2.85		R0831
93	3		
93.4	4		
94	2.2		R0669
94	3		R0200
94	3.55		
94	4		
94.1	5.7		
94.5	2.5		
94.7	3		R0559
94.8	2.93		
94.97	2.04		
95	2		
95	2.4		
95	2.5		R00169
95	3		R00056
95	3		
95	3.5		
95	4		
95	4.5		
95	5		
95	5.5		
95	6		
95.5	3.1		R00290
96	2.62		R00232

Shaft diam.	Bore diam.	Width diam	Drawing no.
96	3.6		
96.2	6		
96.6	4		R0327
97	2.62		R00149
97	5		
98	2.3		R00315
98	2.5		
98	3		
98.1	3.1		
98.8	2.62		R0898
98.8	2.62		
99	1.2		R0061
99	1.2		R0061
99	1.78		R00309
99	2		R0111
99	3		R0204
99.1	5.7		
99.2	3.1		R00217
99.80	2.50		R00022
100	1.78		R00357
100	2		
100	2.2		R0980
100	2.5		R00117
100	2.5		
100	3		R00599
100	3.1		R00160
100	3.5		R00626
100	3.5		R00626

E5

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

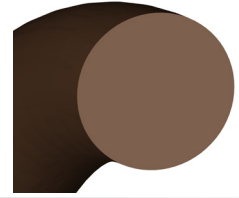
Shaft diam.	Bore diam.	Width diam	Drawing no.
100	4		
100	4.5		
100	5		
100	6		
100.34	5.33		R0557
100.6	5.7		R0567
100.96	3.53		R00619
101.2	3.1		R0678
101.27	2.62		
101.5	3.05		R00287
101.9	3.2		R00568
101.9	3.2		R00568
102	2.62		R00630
102	3		
102.2	3.2		R00569
102.2	3.2		R00569
102.25	2.62		R00376
103	2.62		R00070
103	3.5		
103	6		
103.6	2.3		R00640
104	2.62		R00358
104	3.1		
104	4.6		
104.1	5.7		R0652
104.3	6		R0464
104.5	2.35		
105	2.4		R0692

Shaft diam.	Bore diam.	Width diam	Drawing no.
105	2.6		R0784
105	2.6		R0306
105	2.6		R0306
105	2.62		R00065
105	3		
105	3.4		
105	3.5		
105	4		
105	5		
105	5.5		R0598
105	6		
105	112	3.9	R0065
105.1	95	5.2	R0807
105.5	2.6		R00081
106	2		
106	2.62		R00066
106.7	2.6		R00571
106.7	2.6		R00571
107	2		R0108
107	2.0		R0108
107	2.62		R00378
107	3		R0108
107	4.7		A0451
107	5		
107	5.5		R00615
107.5	2.5		R00286
107.62	3.00		
107.62	3.00		

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
107.7	3.17		R0676
108	2		
108	2.0		
108	3		R00128
108	4		
108.5	2.62		R00063
108.6	2.7		R0859
108.96	3.53		
109	2.5		R00453
109	5		
109.2	5.7		R00578
109.4	2.2		
109.5	2.62		R00079
109.5	2.7		R00006
110	2		
110	2.2		R0981
110	2.2		R0670
110	2.5		R00214
110	2.5		R00214
110	3		R00130
110	3		
110	3.5		
110	4		R0326
110	4.5		
110	5		U0769
110	5		U0769
110	6		
110.8	2.6		

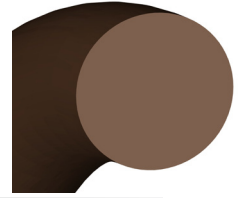
Shaft diam.	Bore diam.	Width diam	Drawing no.
111.5	5		R0829
111.5	5		R0829
111.7	2.2		R0982
111.8	2.62		R0939
112	3		R00129
112	3		
112	4		
112	5		
112	8		R0902
112.26	3.55		
112.3	3.43		R0685
113	3.66		
113.4	3		R00296
113.5	2.52		R0700
113.5	2.62		R00077
113.67	6.99		
114	2.2		R00154
114	2.2		
114	2.2		R0671
114	4		
114	5.7		
114	6		
114.2	2.62		R00236
114.3	5.7		R0644
115	3		
115	3		
115	3.5		R00628
115	4		

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



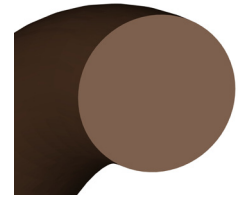
E5

Shaft diam.	Bore diam.	Width diam	Drawing no.
115	4.5		
115	5		
115.5	3		R0701
115.5	3.5		
116	2.62		R0967
116	3.1		R00069
116	4		
116.4	3.175		
116.5	2		
116.6	2.62		R00010
116.6	2.62		R00301
116.84	5.33		
117	2.2		R0790
117	4		
117.6	2.62		R00235
118	2.62		R0901
118	2.62		
118	4		
118	4.5		
118	6		
119	2.3		R0791
119	2.3		R0791
119	3.1		R00078
119.5	2.62		R00429
119.7	4.0		R00026
120	2		
120	3		
120	4		

Shaft diam.	Bore diam.	Width diam	Drawing no.
120	4		
120	4.5		
120	5		
120	6		
120.24	3.53		
120.32	2.62		R00340
121.5	2		R0677
121.7	2.3		R0793
122	2.2		R00004
122	3		
122	3		
122	5		R0471
122.5	4.8		
122.76	1.95		R0504
122.8	2		R0693
123	3		R00125
123	3.1		R00067
124	2.62		R00080
124.14	2.01		R0695
124.6	2.4		
125	2		
125	2.5		R00237
125	2.5		R0944
125	2.5		R0944
125	2.5		R0944
125	3		
125	3.55		R00622
125	4		

NAK STANDARD O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
125	6		
126	4.5		
127	3.5		R00113
127	3.5		
127	4		
128	3		R0970
128.7	3.5		
129	2.5		R00452
129.29	5.81		
129.3	5.7		
130	2		
130	3		
130	3.5		
130	4		
130	4.5		
130	6		
130.5	2.62		R00014
131	3.5		
131.2	5.7		
131.8	3.2		R0940
131.8	3.2		R0560
131.8	3.2		R0560
132	2.62		R00255
132	3		R0973
132	3.1		
133	4		
134.3	5.7		
134.5	3		

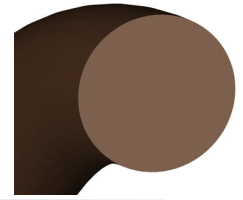
Shaft diam.	Bore diam.	Width diam	Drawing no.
135	2.5		R0803
135	3		
135	4		
135	6		
136.08	2.62		R0900
136.08	2.62		
137	4		
137.5	3.3		R0810
137.5	3.3		R0809
138.5	2.62		R00060
139	2.7		R0968
139.4	3.1		R00457
140	2		
140	2.5		
140	3		R00180
140	4		
140	5		
140	6		
141.3	2		R0722
142.47	3.53		
143.5	3.1		R00480
144	2.62		R00012
144	3.5		R00121
144	4		
144.3	5.7		
144.5	3		R00215
144.5	5		R0805
144.7	2.62		R00011

E5

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

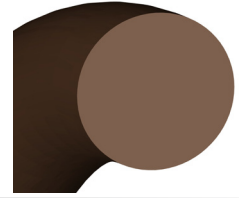
Shaft diam.	Bore diam.	Width diam	Drawing no.
144.94	1.95		R0505
145	2.5		
145	3		R0895
145	3		R0895
145	3.5		R00174
145	4		
145	10		R0903
145.6	154	12.8	R0069
146.1	4.2		R0694
147.3	2.65		R0896
148	2.62		R00064
148	3		R00598
149.4	3.1		R0688
149.4	3.1		R0688
149.5	2.2		
149.5	3		R00450
150	2		R00561
150	2.5		R0203
150	3.5		
150	4		
150	4		R00475
150	6		R00607
151.99	3.53		U9016
154.3	5.7		R0819
156	2.62		R00013
156	3		R0893
158.5	3.5		
160	2.62		R00015

Shaft diam.	Bore diam.	Width diam	Drawing no.
160	3		R00194
160	3.5		
160	6		
163.6	3.00		R00496
164.3	5.7		R3029
164.4	3.1		R0689
164.5	2.4		
165	10		R0904
168	2.62		R00007
168.75	3		R0971
170	3		R0426
170	6		
170.5	3.2		R00444
170.7	3.3		R0812
170.7	3.3		R0811
174.5	2		R00497
175	3		R00297
175	6		
177	1.5		
180	2.62		R00151
180	4		
180	6		
184	3		R0424
184	3		R0424
185	4		
185	6		
187	3		
189.7	3.5		R0974

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
190	4		
190	6		
190.3	4.1		R00299
193	3		R00205
193	8		R0589
194	8		
195	3		R00467
195	6		
195	8		R8086
196	3		R0966
197	3.5		
198	3		R0425
199	2.62		R00435
199	3		R0201
199.5	2		R00564
200	3		
200	4		
200	6		
204	3		R0423
204.5	2		R00565
205	6		
205.7	3.0		R00229
206	3.53		
207.5	5.7		
209.5	2		R00658
210	3		R00216
210	3		R00008
210	3		R00464

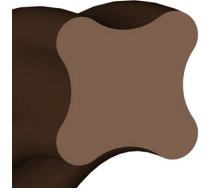
Shaft diam.	Bore diam.	Width diam	Drawing no.
210	3.0		R0858
210	6		
211.8	3		
214	3		R0422
214	3		R00576
215	6		
218.5	2.62		R00552
220	3		R00483
220	6		
222.3	3.1		R0753
223	3		R0432
223	3		R0432
224.9	3.53		
225	3.5		R00314
227	4		R0683
228.5	4		R00191
230	6		
233	3.1		R00456
234	3		R0431
235	10		
240	4		
240	5		
240	6		
245	5		
246	5.33		R0637
261	5		R0718
264	3		R0430
265	3		

E5

NAK STANDARD

X-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

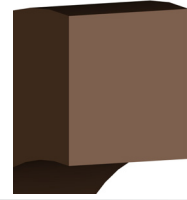
Shaft diam.	Bore diam.	Width diam.	Drawing no.
5.7	1.78		R4359
7.55	1.78		R4365
7.55	2.61		R4335
8.2	1.78		R4338
9.6	2.4		R4354
10.2	2.62		R4326
11.5	1.3		A0316
11.89	1.98		R4352
13.46	2.08		R4351
13.7	2.62		R4358
13.8	2.4		R4048
13.90	2.61		R4334
14.00	1.78		
14.25	3		R0128
14.7	2.62		R4341
16.36	2.21		R4350
17	2.3		R4320
17.93	2.46		R4349
18.2	3.53		R4294
18.72	2.62		R4323
19.18	2.46		R4348
21.85	2.6		R4314
22.72	3.53		R4312
22.72	3.53		R4312
26.58	3.53		
28.4	40	4.2	R4337
28.5	3		R4355
29.75	3.53		

Shaft diam.	Bore diam.	Width diam.	Drawing no.
32.2	2.6		R0214
32.4	44	4.2	R4344
34.1	3.53		R0130
34.25	3		R0129
37.4	49	4.2	R4343
39.2	5.33		R4340
42	2.15		R4347
45.2	5.33		R4339
45.2	5.33		R4339
55.44	1.78		R4163
59.0	1.78		R0102
59.0	1.78		R0102
59.5	72.5	5.4	R4159
63.25	3.5		R4316
69.3	3.5		R4317
69.45	3.53		R0006
73.07	3.5		R4315
88.57	2.62		
160.5	7		R0400
161.02	6.99		R0059
405.26	5.33		R4269
226 50.39	3.53		

NAK STANDARD

O-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
3.3	6.5	0.7	R8914
3.7	7.6	0.95	R8454
4.3	8.5	0.7	R8915
4.84	8.25	3.21	R8795
5	13	3	R8192
6	10.8	0.7	R8916
8	13	1.08	R8232
8	13.5	1	R80088
8.5	14.5	5	R8440
8.5	15.5	1	R80086
9.4	16	2.8	R8490
11	20	1	R80089
11.1	15.9	4.0	R8627
11.2	1.5/1.8		R0479
11.5	22	5.0	R8608
11.9	17.1	1.5	A3128
12.5	24.6	0.6	54280
12.5	24.8	0.6	54280
13	18	1.9	R80139
14	24	1.5	R80085
14.7	24.8	4.3	R8606
15.1	19.9	4.0	R8628
15.3	2.5/2		R0303
15.5	21	2	R8850
16	20.7	2.5	R80052
16.55	28.55	0.85	R80054
17.5	30	1.5	R80087
18	22	3.8	R8102

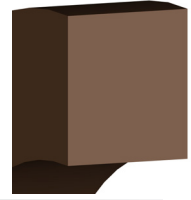
Shaft diam.	Bore diam.	Width diam	Drawing no.
18.5	13	3	A0528
19.27	22.85	3.52	R8796
20	23	1.6	R8191
20	23	1.6	R8191
20	23	1.6	R8191
20	23.4	0.5	
20	35	1.5	R80084
20.32	23.11	1.45	R8248
20.8	1.6/1.8		R0480
21	28.35	0.9	54590
21.1	25.9	4	R8626
21.1	31.5	4.9	R8215
21.3	37.6	1.65	R8465
21.5	25.5	3.8	R8103
21.5	27.8	3.75	R8205
21.6	25.6	1.7	31377
21.8	27	2.6	R8489
22.5	29.2	3.5	R8125
23.3	26.7	1.8	R8311
23.5	30	2.6	R0463
23.52	26.88	1.68	R8133
23.6	1.7		R0020
25	28.4	0.7	46989
25	28.7	0.8	54531
25	29	3.8	R8104
26	62	4	R8114
28.5	40	0.8	A0939
28.6	39.6	2.1	R8187

E5

NAK STANDARD

-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

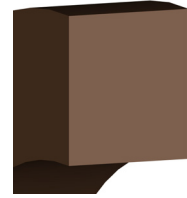
Shaft diam.	Bore diam.	Width diam	Drawing no.
29.5	33.3	1.0	54532
30	12.5/10		R0484
30	33.3	0.8	54694
30.5	36.5	3.15	R0528
31	33	2.95	
31	36.4	0.7	54591
31	39	6.2	R8105
32	38.5	3.2	R8101
32	39	5	R8106
32.2	38.2	3.20	R8530
32.4	37.4	2.8	R8439
32.6	37.6	2.5	R8307
32.7	37.9	2.5	R8324
34	38	3.75	R8107
34.3	40.3	3.2	R8420
35	41	2.5	R8203
35	41	3	R8034
35	46.4	0.8	53601
35.3	45.5	1.0	50566
36	40	0.5	
36	42	3.15	R0529
37.2	45.2	2	R8481
38	46.4	0.8	53601
38	48.3	0.5	53055
38.4	44.5	3.2	R8491
38.5	43	2.7	R8457
38.5	44.8	3.2	R8284
38.6	44.6	3.3	R8159

Shaft diam.	Bore diam.	Width diam	Drawing no.
38.6	45	1.7	R8522
38.7	56.9	4	R8271
38.8	44.8	3.0	51377
38.8	44.8	3.0	51377
39	41	19.5	R8575
39.1	44.3	2.5	R8325
39.5	45.5	3.25	R8158
39.7	46.1	4.4	U7841
39.9	3		
40	43.3	0.8	54287
40	46	3	R8035
40.5	46	2.5	R8511
40.5	48.05	0.8	50564
40.6	48	2.7	A0037
41.3	47.3	3.2	R8492
41.4	46.4	2.5	R8308
41.4	47.4	3.2	R8282
41.4	47.5	1.95	R8757
42	48	3	R8036
42	48	3	R8512
42	50	6.2	R8108
42	56	2	A2029
42.65	48.65	3.2	R8241
43	48	2.0	R8083
43	48	2.5	R8414
43	49	2.8	R8302
43	49	3	R8037
43.1	49.5	1.7	R8523

NAK STANDARD

-RING

MATERIAL: NBR / FKM
UNIT: METRIC



Shaft diam.	Bore diam.	Width diam	Drawing no.
43.3	48	1.9	
43.5	48.5	1.9	R8349
44	51.55	0.7	54592
44	52	0.8	49654
44	56	5.1	U9549
44.45	50.47	3.18	R0600
45	49.5	0.8	49655
45	50.3	2	R8538
45	50.8	2	R8538
45	51	3	R8038
46	49.4	1.4	R8674
46	49.7	6.2	R8272
46	52	3.25	R8329
46.7	50.38	0.8	50490
47	53	3	R8160
47	58.3	5.5	U7842
47.25	53.25	3.2	R8242
47.74	53.65	3.18	R8072
48	54	3	R8039
48	54	3.1	R8600
48	60	2.6	R8540
48.3	54.3	3.2	R8415
48.5	52.5	2.5	R8008
48.8	54.8	3.25	R8413
50	110	4	R8115
50.5	56.5	3.4	R8438
50.8	55.9	2.85	R8408
51	3/1.9		R0304

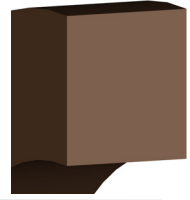
Shaft diam.	Bore diam.	Width diam	Drawing no.
51	57	3	R8040
51.2	56	2.4	R8212
51.6	56.8	2.6	R8312
52.07	57.09	2.51	R8135
52.4	58	3.20	R8531
53	60.55	1	50562
53.9	60	3.2	R8418
54	60	3	R8041
54	60	3.15	R8602
55	60	2.7	R8109
56	71	4	R0481
56.6	61.8	2.5	R8323
57	63	3	R8042
57	63	3.15	R8601
57	63	6.2	R8110
57	63.2	3.1	R8466
57.5	62.5	2.5	R8254
57.5	62.5	2.9	R8487
57.5	72.5	7.4	R8199
58.80	2.50		R0021
59	64	2.5	R8280
59.7	65.8	3.15	R8417
59.92	66.72	3.4	R8476
60	66	3	R8043
60	66	3.1	R8599
60	70.2	0.8	53595
60.5	66.5	3	R8044
61	67	3	51385

E5

NAK STANDARD

-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

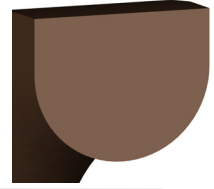
Shaft diam.	Bore diam.	Width diam	Drawing no.
62.5	69.3	3.4	R8315
62.95	70.5	1.85	R0382
63.09	69.89	3.40	R8136
63.5	68.6	2.85	R8409
64	74.5	0.8	51747
64.5	70.5	3	R0485
64.5	70.5	3	R0485
64.5	70.5	3	R0485
65	70.5	5.5	R8111
65	73	1	50573
65.2	73.8	5	R8211
65.6	71.8	1.95	R8753
66	72.2	1.95	R8762
66	78	0.5	50574
66.5	72.5	3.9	R8214
66.8	73.2	3.65	R8790
67.5	74.8	3.3	R8433
69.3	3.4		R0022
69.45	76.25	3.4	R8548
69.50	3.50		R8152
70	73	1.1	42657
70	78	1	50575
72.2	79.20	3.50	R8309
72.8	76	1.75	R8355
72.8	78.8	1.9	R8763
73	79	1.9	R8746
73	80	4	R8510
73	83	1.0	50567

Shaft diam.	Bore diam.	Width diam	Drawing no.
73	83	1	50576
73.22	80.02	3.4	R8134
74.4	86.4	5.1	U5583
75.3	81.5	1.95	R8748
75.6	86.3	5.2	U5770
77	88	1.0	51730
77.7	82.5	41.8	R8452
78	83	1.0	58317
78.4	93.4	7	U5584
80.9	84.9	5.6	R8285
83.75	2/2.8		R0287
83.8	86.8	0.5	R8805
85.32	92.12	3.4	R8547
88	99.45	1.0	54446
88.5	95.3	3.4	R8477
88.9	103.9	7	U5582
90.5	96.7	1.9	R8732
91.4	3.6		R0023
91.5	98.5	3.5	R8891
95.25	112.45	4.8	R0679
97.0	3.0/1.9		R0453
99	105.2	1.9	R8751
100	105	2.65	R8316
100	105	2.8	R8316
101	106.35	0.6	58565
101	108	3.5	R8328
107	113.8	4.8	R8208
107	114	3.5	R8327

NAK STANDARD

D-RING

MATERIAL: NBR / FKM
UNIT: METRIC



E5

Shaft diam.	Bore diam.	Width diam	Drawing no.
1.5	6.1	1.6	R0351
3	6	2	R0133
3	6	2	R0495
4	7	2	R0132
4	7	2	R0496
6	9	2	R0134
6	9	2	R0497
11	17	3.2	R0149
13.95	18.35	2.7	R0014
29	34.5	1.6	R8670
35	42	1.7	R8693
35.7	42.7	1.5	R8664
39.7	46.9	1.7	R8718
42.5	49.3	1.7	R8912
46.5	52	1.7	R8819
49.8	58	2	R8987
56.8	65	2	R8991
58.6	65.6	2	R8892
59	65.6	2	R8804
59.1	65.9	1.7	R8692
59.8	68	2	R80019
61.5	69.7	2	R8992
62.6	69.6	2	R80015
63.5	70.7	1.7	R8717
64.5	71.5	1.7	R8838
66.2	73.2	1.7	R8695
67	75	2	R8803
67.8	74.8	1.75	R8694

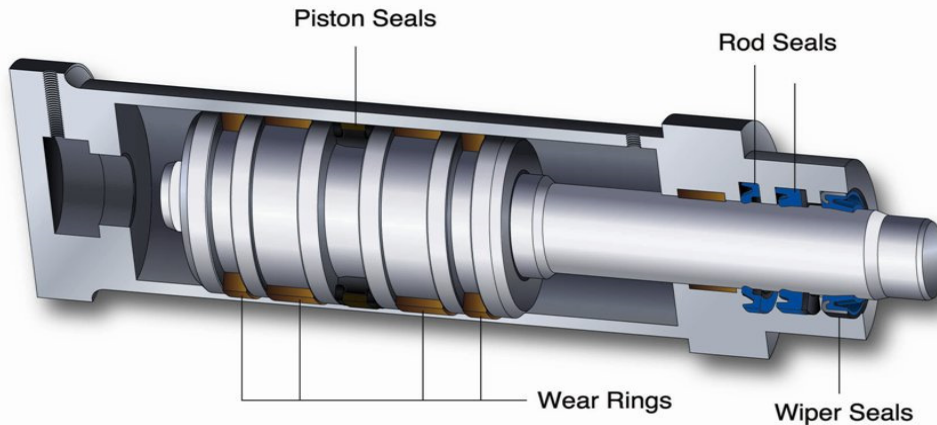
Shaft diam.	Bore diam.	Width diam	Drawing no.
69.6	5.7		U8641
74.9	82	1.7	R8720
75.3	82.5	1.7	R8721
75.8	86	3.0	R80140
80	88	2	R8351
86.5	94.5	2	R80004
89.3	97.5	2	R8990
89.4	96.4	2	R80016
89.6	5.7		R8022
92	100.2	2	R80000
96.9	104.7	2	R80011
106	112.9	1.5	R8666
107.5	114.4	1.5	R8784
108.2	114.8	1.75	R8696
109.6	5.7		U8640
111.5	118.3	2	R8809
115.75	5		R0527
116.8	122.9	1.75	R8770
117	123.4	2.1	R8771
118.6	5.7		U8638
119.6	5.7		R8023
126.6	133.5	2	R8883
128.4	135.5	2.0	R8826
138.2	145.2	1.7	R8723
147.7	154.5	2	R8884
148.45	155.35	2	R8833
166	173	2	R80010
171	177.9	2	R8882



PACKING DESIGN SHEET

No. 336 Industrial Road, Nankang Industrial Zone, Nantou City 54065, Taiwan
 TEL : 886-49-2255011 FAX : 886-49-2250035 E-mail : service@mail.nak.com.tw

Customer & Division	Customer P/N	Date
Address	City / State / Zip	Contact
Telephone	Fax	E-mail



Application		Equipment		Annual Usage	<input type="checkbox"/> OEM
				Peak Month Usage	
Material	<input type="checkbox"/> NAK Standard (ASTM) <input type="checkbox"/> Customer Standard			Special Operating Conditions :	
Q.C.	<input type="checkbox"/> NAK Standard (AQL 4.0, C=0) <input type="checkbox"/> Customer Standard				
Design By	<input type="checkbox"/> NAK Standard <input type="checkbox"/> ODM <input type="checkbox"/> Customer Sample <input type="checkbox"/> Customer Drawing				
Temperature					
Min.	Normal	Max.	<input type="checkbox"/> °C <input type="checkbox"/> °F		
Pressure					
Min.	Normal	Max.	<input type="checkbox"/> Bar <input type="checkbox"/> Psi <input type="checkbox"/> Mpa		
Media					
Type	Brand & Grade		Viscosity		
Speed					
Cycles / min.	Stroke Length		Average Speed		



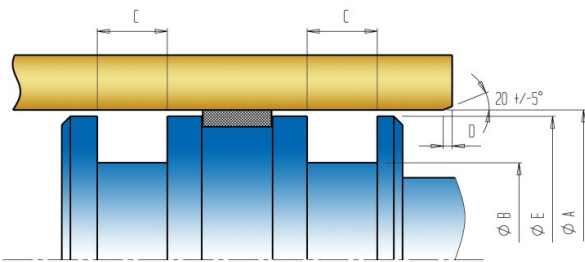
PACKING DESIGN SHEET

No. 336 Industrial Road, Nankang Industrial Zone, Nantou City 54065, Taiwan
 TEL : 886-49-2255011 FAX : 886-49-2250035 E-mail : service@mail.nak.com.tw

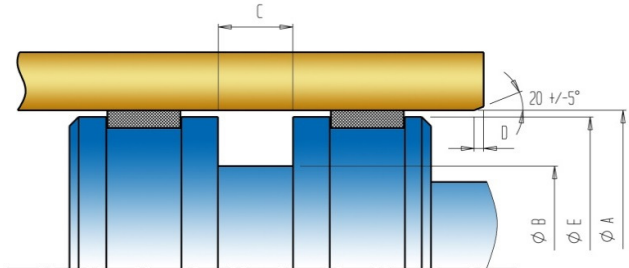
Position & Size

A. Dynamic sealing face : _____ D. Min. chamfer : _____
 B. Static sealing face : _____ E. Static sealing face : _____
 C. Static groove face : _____

Piston 1 :

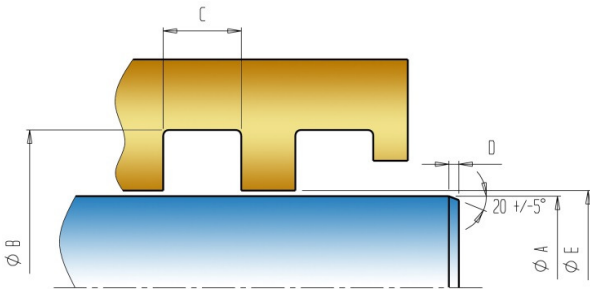


Piston 2 :

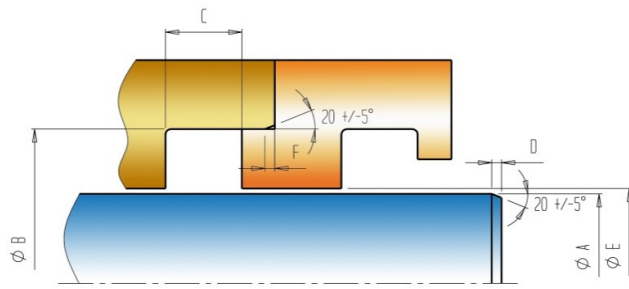


A. Dynamic sealing face : _____ D. Min. chamfer : _____
 B. Static sealing face : _____ E. Static sealing face : _____
 C. Static groove face : _____ F. Min. Chamfer : _____

Rod 1 :

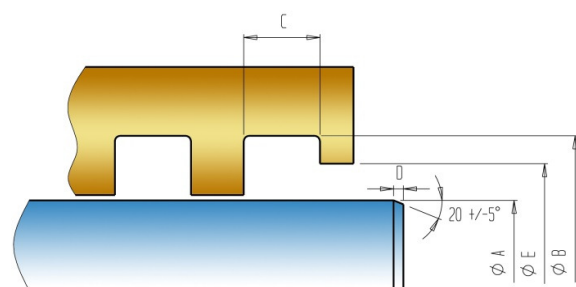


Rod 2 :

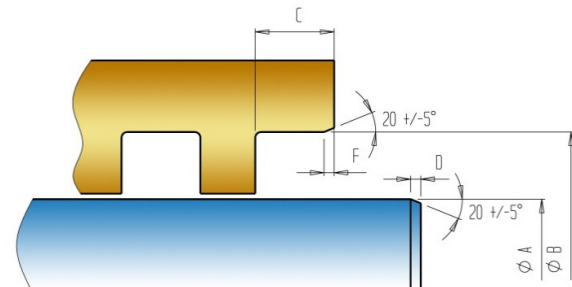


A. Dynamic sealing face : _____ D. Min. chamfer : _____
 B. Static sealing face : _____ E. Static sealing face : _____
 C. Static groove face : _____ F. Min. Chamfer : _____

Wiper 1 :



Wiper 2 :





Factory



Service office & warehouse

SUBSIDIARIES MAP



Taiwan (NAK Headquarters)

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 FAX : 86-512-57665827; 86-512-57664409
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 FAX : 98-21-88741319
 E-mail : kishnak@pol.ir



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 Rachatewa, Ampur Bangplee Samutprakarn 10540, Thailand
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 E-mail : info@naksealing.ru
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India

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 E-mail : marketing@nakindia.com



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NAK DO BRASIL INDUSTRIA E COMERCIO DE COMPONENTES DE VEDACAO LTDA
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 02177-020, Sao Paulo S.P, Brazil
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 FAX : 55-11-3807-3002
 E-mail : nakbrasil@nakbrasil.com.br
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