

Component Seals

and machine specific plug in seals



the AESSEAL® group of companies

designers and manufacturers of mechanical seals,
bearing protectors, seal support systems and gland
packing which maximize rotating equipment up-time.



Bellows Seal

Elastomer component that runs the length of the spring

10



Clamp Rings

Metallic ring with or without set screws

24



Multi Spring Seals

Multiple parallel springs located in the seal.

28



Parallel Spring Seals

One spring which is equal diameter at both ends.
Rotary seal is either an O' ring or a diaphragm.

50



Stationary Faces

Single seal face with a lapped surface

64



Pump Specific Seals

A range of seals for a specific pump type

78



Taper Spring Seals

Single spring that has a larger diameter at one end than the other.

100



Wave Spring Seals

A wave spring located inside the seal

122

Industry Expertise

AESSEAL® Component Seal range has been developed over many years, and offers solutions capable of sealing a diverse range of industries and applications.

Whether it be a waste water pump on a sewage plant, or a food processing pump in the dairy industry; AESSEAL® has the technology to seal the application.



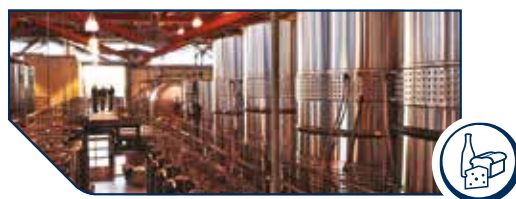
Oil & Gas



Pulp & Paper



Power Generation



Food & Beverage (suitable for use in Pharmaceutical industry)



Chemical



Water & Waste Water



Bio / Ethanol



Automotive



Mining & Minerals



Metal Processing



Building Services



Corn Milling



Sugar Refining



Marine

“Our purpose is to give our customers such exceptional service that they need never consider alternative sources of supply.”

Company Overview

AESSEAL® is a leading global specialist in the design and manufacture of mechanical seals, bearing protectors and seal support systems.

The company sets new standards in reliability, performance, service and cost. Service has been the key to the success of AESSEAL® and is at the core of the company purpose statement — ‘to give our customers such exceptional service that they need never consider alternative sources of supply.’ Through continuous investment, unique modular technology and an unparalleled dedication to customer service we aim to constantly exceed expectation.



Customer Focus

To us, the customer really is king. It is our focus on customer service and quality that has seen us grow year on year since we were established in 1979. Today, we have 230 locations worldwide, supplying customers in 104 countries, and employ a global network of sales engineers and technical support specialists.

By investing in pioneering technology, we simplify the whole ordering process and respond quickly to customers' needs – whatever, wherever. We aim to exceed expectation consistently: in delivery, quality, reliability and service. We're challenging industry standards, challenging our competitors, challenging thinking – and challenging to become world market leader.

Stock Availability

AESSEAL® has one of the most comprehensive component seal product portfolios available. With some 10,000 product lines available from stock, our inventory incorporates seals to suit an extensive range of pump types and applications.

Our unique, patented range of re-engineered component seals enables 44,000 permutations to be configured, allowing AESSEAL® to offer our customers the greatest possible product availability and service. **AESSEAL® provides the sealing solutions you require – direct from one source.**

Quality Assurance

Quality is non-negotiable – it's the thread that weaves together all our activities and people. It's embedded in our manufacturing, ensuring world-class products, and it's ever-present in our processes and approach, giving customers an exceptional experience.

AESSEAL® has adopted the European Foundation for Quality Management (EFQM) model. Promoting best practice, it includes measures in all key business areas including resources, people management and customer satisfaction.

AESSEAL® is certified to ISO 9001, ISO14001, ISO29001 and OHSAS 18001 for our Global Headquarters and selected global locations. Continuous improvement is part of our culture. AESSEAL® is a member of the European Sealing Association.

Food Safe Seals

Our F- component seal range is specifically designed to minimize bug traps, and all seal types use materials that are suitable for contact with food*. We control the design and procurement of virtually every component in our F- product range to ensure that they are made to the world class standards our customers expect. For further details on the F- seal range refer to the Food and Beverage brochure.



* For full details of material compliance please refer to the documents on our website (www.componentseals.com/downloads/case-studies-fact-sheets)



Innovation

AESSEAL® is the first major seal manufacturer to re-engineer a complete portfolio of component seals.

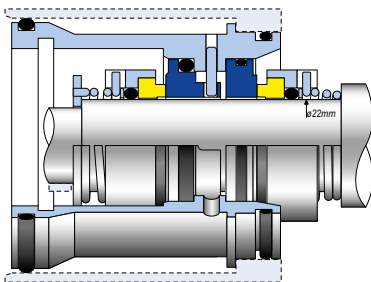
Raising the industry standard and allowing configurable component seals to be built to order. Our component seals offer 100% compatible solutions with OEM parts and backwards compatibility ensures our products can be used with our customers' existing stock holding.

AESSEAL® component seals are designed with modularity at their core, allowing faster service whilst also incorporating design features which reduce the lifetime cost of the product.

Technology Upgrades

AESSEAL® offer a range of product upgrade alternatives that allow you to seal your application with market leading seal technology adapted to be compatible with your current equipment. Upgrade alternatives are indicated by the  symbol next to the AESSEAL® standard product offering.

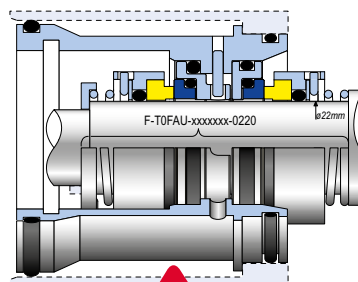
Industry Standard



Typical OEM + competitor offering

- Copies in the marketplace make it difficult to know exactly what materials are used. This may be critical in some applications such as the food industry where it is necessary to ensure your site complies with EU Directive 1935/2004

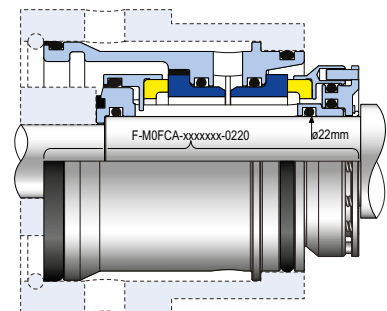
AESSEAL® Type T0FAU



AESSEAL® Built to order product

- Auditable component manufacture
- Fully backwards compatible with existing stock
- Modular, allowing reduced parts and therefore stock holding
- FDA / EU Compliant materials as standard* in our F-Seals

AESSEAL® Type M0FCA



AESSEAL® Upgrade product offering

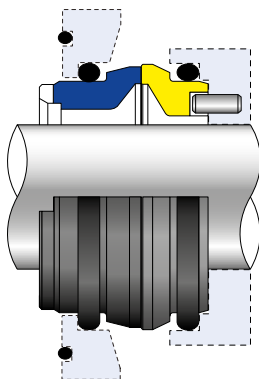
- Unitised / Plug in design reduces fitting time and ensures correct installation every time
- Reduced downtime by improved performance utilising hydraulically balanced seal design
- Improved cooling through agitating sleeve design
- Sterile sealing rings reduce all product side bug traps
- FDA / EU Compliant materials as standard* in our F-Seals

* For full details of material compliance please refer to the documents on our website (www.componentseals.com/downloads/case-studies-fact-sheets)



“Over 7% of annual sales revenue has been reinvested in R&D over several decades. This has almost certainly led to the most advanced range of sealing technology available globally.”

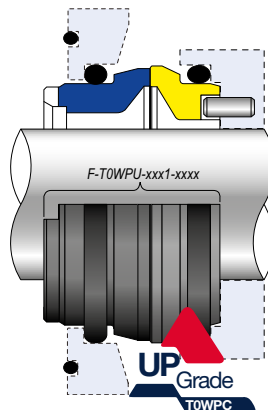
Industry Standard



Typical OEM + competitor offering

- Copies in the marketplace make it difficult to know exactly what materials are used. This may be critical in some applications such as the food industry where it is necessary to ensure your site complies with EU Directive 1935/2004

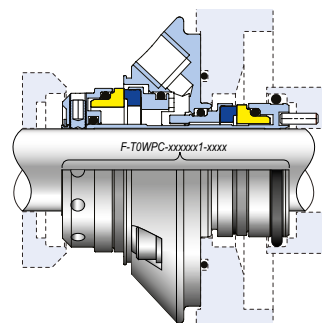
AESSEAL® Type TOWPU



AESSEAL® Built to order product.

- Auditable component manufacture
- FDA / EU Compliant materials as standard* in our F-Seals

AESSEAL® Type TOWPC



AESSEAL® Upgrade product offering

- Unitised / Plug in Design reduces fitting time and ensures correct installation
- Reduced downtime by improved performance utilising hydraulically balanced seal design
- Auditable component manufacture
- FDA / EU Compliant materials as standard* in our F-Seals
- Improved cooling through directed barrier fluid flow

Need proof that AESSEAL® product upgrades are a worthwhile investment? See the case studies available to download at www.componentseals.com/downloads/case-studies-fact-sheets

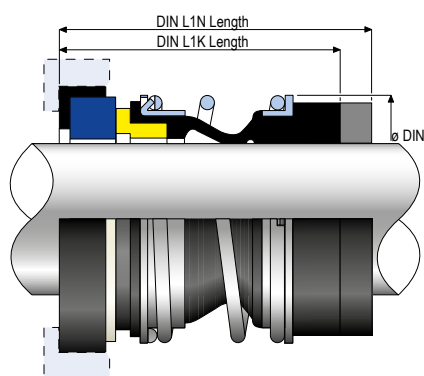
AESSEAL® Unique Designs

AESSEAL's component seal range has been re-engineered to incorporate unique patented design features helping to improve pump reliability and increase Mean Time Between Failure.

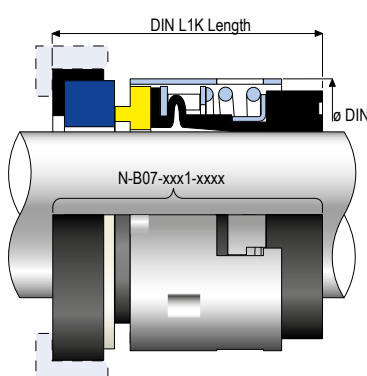
B0-U Range Design Features

The AESSEAL® patented B0-U rotary design combines all of the beneficial features of its predecessors into a truly innovative product.

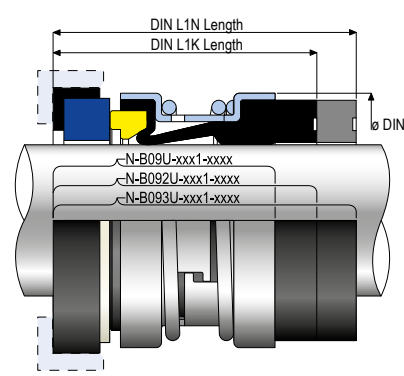
Industry Standard Seal



B07 Style Seal

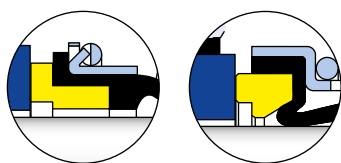


High Duty B0-U Seal



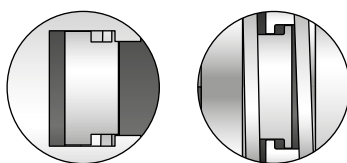
Resiliently Mounted Rotary Face

- Ensures that the rotary face cannot fall out of the seal on installation
- Reduces the stresses applied to the face on start up reducing the likelihood of chipping / cracking



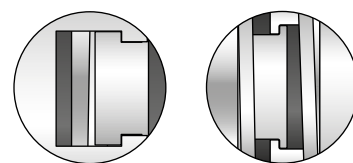
Rotary Drive through the Retainer

- Metal to metal drive ensures that the drive force is transmitted through the retainer and not the bellows, reducing the risk of bellows failure
- Maximized material thickness and specially designed spring ensures that disengagement does not occur



Pre-tensioned Spring

- T-slot profiled retainer design ensures that the spring is pre-tensioned reducing the stress applied to the bellows in its pre-installed state



DIN Size Envelope

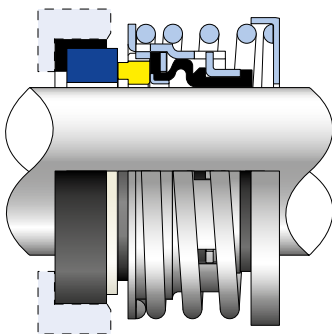
The outer diameter of the B0-U rotary allows it to fit within DIN bores as standard. The B092U and B093U working lengths meet DIN 24960 (EN12756) L1K and L1N working lengths, respectively, when mated with a suitable stationary seat design (e.g. S03U or S040U).



P0-U Range Design Features

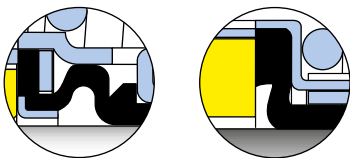
AESSEAL® patented technology developed to meet a variety of sealing applications.

Industry Standard Design

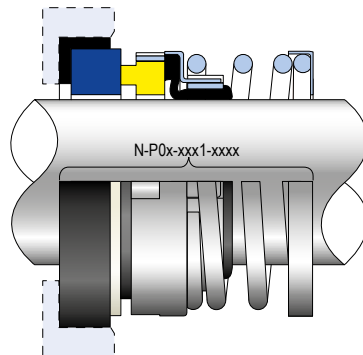


Full Convolution Bellows

- Allows increased axial movement of the rotary face than the Low Duty P0 design providing better compensation for rotary face wear and inconsistent installation
- Capable of a higher pressure rating than the Low Duty P0 design

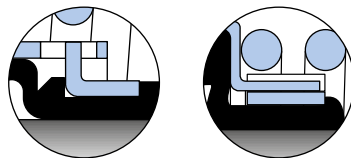


Low Duty P0 Design

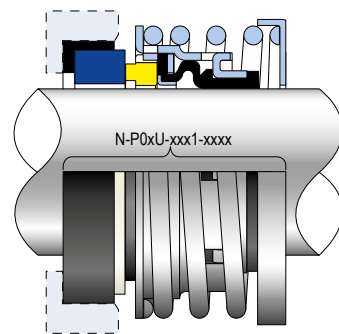


Axially retained drive ring

- The patented design means that the drive ring is axially retained in the retainer ensuring that it will not separate during installation, helping to eliminate a common problem with traditional parallel spring seal designs

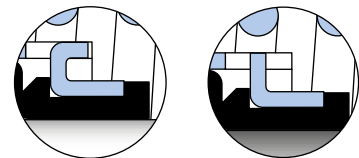


High Duty P0-U Design



Flanged Drive Ring

- Reduced risk of hang up by spreading the drive force over a larger area than industry standard designs



Bellows Seal

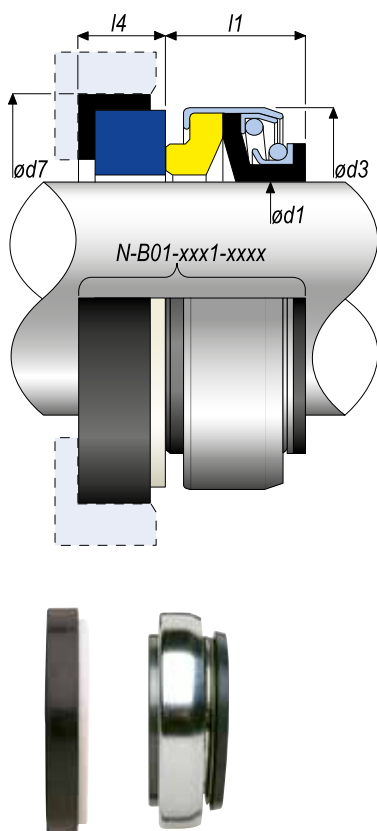
B01

Stock code: N-B01-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code ^A
A - Carbon or D - Silicon Carbide (RB)*	B - Alumina Ceramic or D - Silicon Carbide (RB)*	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

^ABuild Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



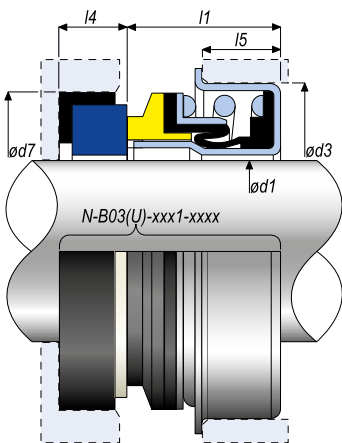
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0080	8.0	0.315	24.0	0.945	26.0	1.024	11.0	0.433	8.0	0.315
0080-B	8.0	0.315	20.0	0.787	18.0	0.709	11.0	0.433	4.8	0.189
0080-D	8.0	0.315	20.0	0.787	22.0	0.866	11.0	0.433	4.2	0.165
0100	10.0	0.394	24.0	0.945	26.0	1.024	11.0	0.433	8.0	0.315
0110	11.0	0.433	24.0	0.945	26.0	1.024	11.0	0.433	8.0	0.315
0120	12.0	0.472	24.0	0.945	26.0	1.024	11.0	0.433	8.0	0.315
0120-B	12.0	0.472	24.0	0.945	26.0	1.024	13.0	0.512	8.0	0.315
0120-C	12.0	0.472	32.0	1.260	35.0	1.378	13.0	0.512	8.0	0.315
0120-D	12.0	0.472	24.0	0.945	26.0	1.024	11.0	0.433	6.6	0.260
0120-E	12.0	0.472	24.0	0.945	25.0	0.984	11.0	0.433	5.0	0.197
0130	13.0	0.512	24.0	0.945	26.0	1.024	13.0	0.512	8.0	0.315
0130-B	13.0	0.512	24.0	0.945	26.0	1.024	11.0	0.433	5.6	0.220
0130-C	13.0	0.512	24.0	0.945	26.0	1.024	15.0	0.591	8.0	0.315
0130-D	13.0	0.512	24.0	0.945	25.0	0.984	16.4	0.646	7.8	0.307
0140	14.0	0.551	32.0	1.260	35.0	1.378	13.0	0.512	8.0	0.315
0140-B	14.0	0.551	28.0	1.102	26.0	1.024	13.0	0.512	8.0	0.315
0140-C	14.0	0.551	32.0	1.260	29.5	1.161	13.0	0.512	8.0	0.315
0150	15.0	0.591	35.0	1.378	38.0	1.496	13.0	0.512	8.0	0.315
0150-B	15.0	0.591	35.0	1.378	29.5	1.161	13.0	0.512	8.0	0.315
0150-C	15.0	0.591	32.0	1.260	29.5	1.161	13.0	0.512	8.0	0.315
0160	16.0	0.630	35.0	1.378	38.0	1.496	13.0	0.512	8.0	0.315
0160-B	16.0	0.630	39.0	1.535	42.0	1.654	13.0	0.512	8.0	0.315
0160-C	16.0	0.630	35.0	1.378	29.5	1.161	13.0	0.512	8.0	0.315
0170	17.0	0.669	39.0	1.535	42.0	1.654	13.0	0.512	8.0	0.315
0180	18.0	0.709	39.0	1.535	42.0	1.654	13.0	0.512	8.0	0.315
0190	19.0	0.748	39.0	1.535	42.0	1.654	13.0	0.512	8.0	0.315
0200	20.0	0.787	39.0	1.535	42.0	1.654	13.0	0.512	8.0	0.315
0200-B	20.0	0.787	42.0	1.654	45.0	1.772	13.0	0.512	10.0	0.394
0200-C	20.0	0.787	34.8	1.370	35.0	1.378	16.0	0.630	7.5	0.295
0220	22.0	0.866	42.0	1.654	45.0	1.772	13.0	0.512	10.0	0.394
0230	23.0	0.906	47.0	1.850	50.0	1.969	13.5	0.531	10.0	0.394
0240	24.0	0.945	47.0	1.850	50.0	1.969	13.5	0.531	10.0	0.394
0250	25.0	0.984	47.0	1.850	50.0	1.969	13.5	0.531	10.0	0.394
0250-B	25.0	0.984	42.0	1.654	50.0	1.969	13.3	0.524	10.0	0.394
0250-C	25.0	0.984	42.0	1.654	40.0	1.575	13.3	0.524	7.5	0.295
0250-D	25.0	0.984	42.0	1.654	40.0	1.575	12.8	0.504	6.0	0.236
0250-E	25.0	0.984	47.0	1.850	57.0	2.244	13.5	0.531	7.0	0.276
0254	25.4	1.000	47.0	1.850	57.0	2.244	13.5	0.531	10.0	0.394
0280	28.0	1.102	54.0	2.126	57.0	2.244	15.0	0.591	10.0	0.394
0300	30.0	1.181	54.0	2.126	57.0	2.244	15.0	0.591	10.0	0.394
0320	32.0	1.260	54.0	2.126	57.0	2.244	15.0	0.591	10.0	0.394
0350	35.0	1.378	60.0	2.362	63.0	2.480	16.0	0.630	10.0	0.394
0380	38.0	1.496	65.0	2.559	68.0	2.677	17.0	0.669	12.0	0.472
0400	40.0	1.575	65.0	2.559	68.0	2.677	17.0	0.669	12.0	0.472
0450	45.0	1.772	70.0	2.756	73.0	2.874	20.0	0.787	12.0	0.472
0500	50.0	1.969	85.0	3.346	88.0	3.465	24.0	0.945	15.0	0.591
0550	55.0	2.165	85.0	3.346	88.0	3.465	24.0	0.945	15.0	0.591
0600	60.0	2.362	105.0	4.134	110.0	4.331	30.0	1.181	15.0	0.591
0650	65.0	2.559	105.0	4.134	110.0	4.331	30.0	1.181	15.0	0.591
0700	70.0	2.756	105.0	4.134	110.0	4.331	32.0	1.260	15.0	0.591



B03



Stock code: N-B03-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon	B - Alumina Ceramic	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P Q

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only

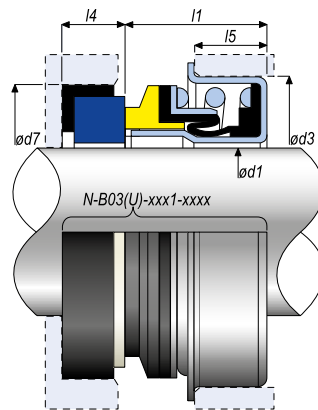
Size	d1		d3		d7		I1		I4		I5	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	28.5	1.125	25.0	0.984	13.2	0.520	5.0	0.197	8.0	0.315
0127-B	12.7	0.500	30.0	1.181	25.0	0.984	13.8	0.543	5.0	0.197	8.0	0.315
0158	15.8	0.625	36.4	1.435	30.9	1.219	14.8	0.583	5.0	0.197	8.0	0.315
0158-B	15.8	0.625	36.4	1.435	27.3	1.078	14.8	0.583	5.3	0.208	8.0	0.315
0191	19.1	0.750	40.0	1.575	35.0	1.378	15.5	0.610	5.0	0.197	9.5	0.374
0191-B	19.1	0.750	40.0	1.575	38.9	1.535	15.5	0.610	5.0	0.197	9.5	0.374
0286	28.6	1.125	52.0	2.047	48.0	1.890	19.0	0.748	8.0	0.315	11.0	0.433



B03U



Stock code: N-B03U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon	B - Alumina Ceramic	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P Q

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only

Size	d1		d3		d7		I1		I4		I5	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	28.5	1.125	25.4	1.000	13.8	0.543	7.9	0.312	8.0	0.315
0158	15.8	0.625	36.4	1.435	31.7	1.250	15.4	0.605	10.3	0.406	8.0	0.315
0191	19.1	0.750	40.0	1.575	34.9	1.375	15.4	0.605	10.3	0.406	9.5	0.374



Bellows Seal

B04

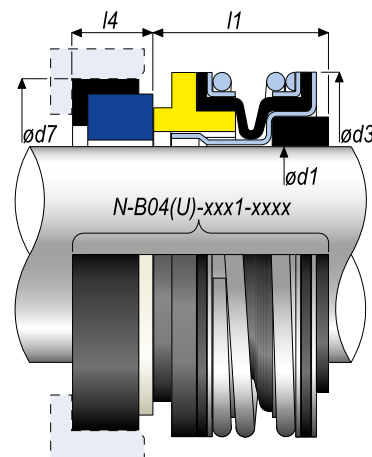


Stock code: N-B04-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon	B - Alumina Ceramic	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P Q

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0095	9.5	0.375	24.0	0.945	22.2	0.875	16.0	0.631	6.2	0.244
0127	12.7	0.500	27.0	1.063	25.4	1.000	16.6	0.654	6.2	0.244
0158	15.8	0.625	31.0	1.220	31.7	1.250	18.7	0.736	10.3	0.406
0191	19.1	0.750	34.2	1.348	34.9	1.375	18.7	0.736	10.3	0.406
0254	25.4	1.000	43.0	1.693	41.2	1.625	20.6	0.811	11.1	0.437



B04U

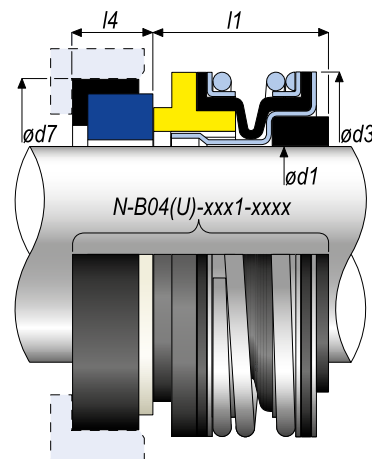


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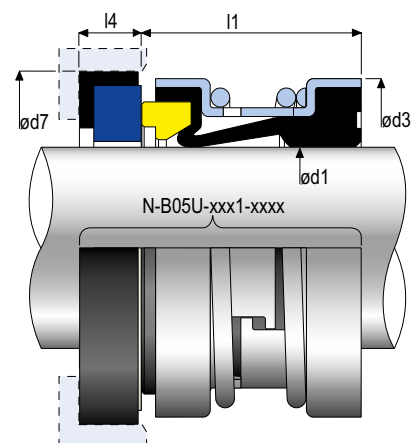
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0095	9.5	0.375	27.0	1.063	25.4	1.000	16.6	0.654	7.9	0.312
0127	12.7	0.500	27.0	1.063	25.4	1.000	16.6	0.654	7.9	0.312
0158	15.8	0.625	31.0	1.220	31.7	1.250	18.2	0.716	10.3	0.406
0191	19.1	0.750	34.2	1.348	34.9	1.375	18.2	0.716	10.3	0.406



B05U



Stock code: N-B05U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity

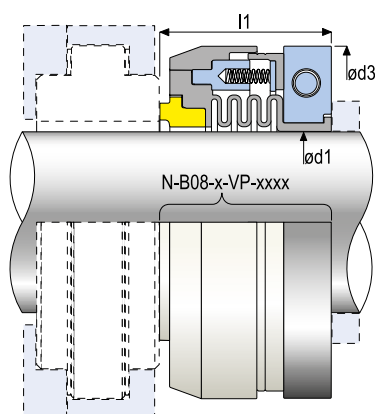
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0180	18.0	0.709	28.0	1.102	33.0	1.299	19.5	0.768	6.0	0.236
0280	28.0	1.102	42.0	1.654	43.0	1.693	26.5	1.043	6.0	0.236
0300	30.0	1.181	44.0	1.732	45.0	1.772	26.5	1.043	6.0	0.236
0320	32.0	1.260	46.0	1.811	48.0	1.890	27.5	1.083	6.0	0.236
0330	33.0	1.299	47.0	1.850	48.0	1.890	27.5	1.083	6.0	0.236
0350	35.0	1.378	49.0	1.929	50.0	1.969	28.5	1.122	6.0	0.236
0380	38.0	1.496	52.0	2.047	56.0	2.205	30.0	1.181	7.5	0.295
0400	40.0	1.575	55.0	2.165	58.0	2.283	30.0	1.181	7.5	0.295
0430	43.0	1.693	58.0	2.283	61.0	2.402	30.0	1.181	7.5	0.295
0450	45.0	1.772	60.0	2.362	63.0	2.480	30.0	1.181	7.5	0.295
0480	48.0	1.890	63.0	2.480	66.0	2.598	30.5	1.201	9.0	0.354
0500	50.0	1.969	65.0	2.559	70.0	2.756	30.5	1.201	9.5	0.374
0750	75.0	2.953	95.0	3.740	97.0	3.819	40.0	1.575	11.3	0.445
0800	80.0	3.150	103.0	4.055	105.0	4.134	40.0	1.575	12.0	0.472



B08

Stock code: N-B08-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
N - GFT	-	V - PTFE	P

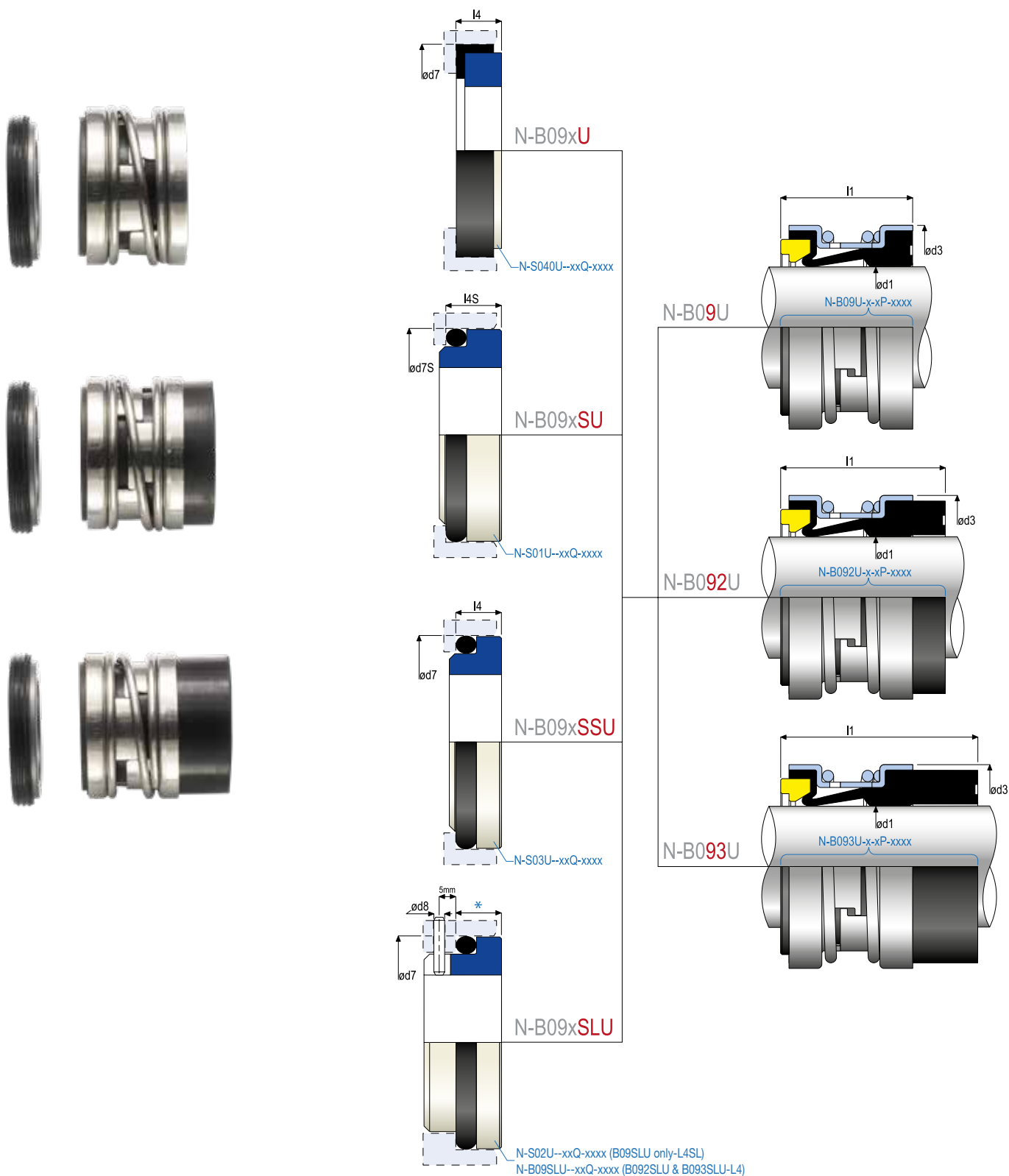


Size	d1		d3		I1	
	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	63.5	2.500	35.5	1.398
0254	25.4	1.000	63.5	2.500	35.5	1.398
0280	28.0	1.102	66.6	2.625	35.5	1.398
0286	28.6	1.125	66.6	2.625	35.5	1.398
0300	30.0	1.181	69.8	2.750	35.5	1.398
0317	31.7	1.250	69.8	2.750	35.5	1.398
0349	34.9	1.375	73.0	2.875	35.5	1.398
0350	35.0	1.378	73.0	2.875	35.5	1.398
0380	38.0	1.496	76.2	3.000	35.5	1.398
0381	38.1	1.500	76.2	3.000	35.5	1.398
0400	40.0	1.575	79.3	3.125	35.5	1.398
0412	41.2	1.625	79.3	3.125	35.5	1.398
0444	44.4	1.750	82.5	3.250	35.5	1.398
0450	45.0	1.772	82.5	3.250	35.5	1.398
0476	47.6	1.875	90.6	3.568	39.7	1.563
0480	48.0	1.890	90.6	3.568	39.7	1.563
0500	50.0	1.969	93.8	3.693	39.7	1.563
0508	50.8	2.000	93.8	3.693	39.7	1.563
0530	53.0	2.087	97.0	3.818	39.7	1.563
0539	53.9	2.125	97.0	3.818	39.7	1.563
0550	55.0	2.165	100.2	3.943	39.7	1.563
0571	57.1	2.250	100.2	3.943	39.7	1.563
0600	60.0	2.362	103.3	4.068	39.7	1.563
0603	60.3	2.375	103.3	4.068	39.7	1.563
0635	63.5	2.500	106.5	4.193	39.0	1.563



Bellows Seal

B09xU Range



Stock code: N-B09xU-xxxx-xxxx
(Size)

Rotary Face	Stationary Face	Elastomer	Build Code ^a
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or H - Antimony Carbon* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	I - AES Elast* or R - HNBR* or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P

*Availability subject to order quantity

^aBuild Code 1 = Complete Seal, P = Rotary Only

Size	d1		d3		d7		d7S		d8		I1 (B09U)		I1 (B092U)		I1 (B093U)		I4		I4S		I4SL	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	22.0	0.866	21.0	0.827	21.0	0.827	3.0	0.118	14.5	0.571	25.9	1.020	33.4	1.315	6.6	0.260	6.6	0.260	10.1	0.398
0120	12.0	0.472	22.0	0.866	23.0	0.905	21.6	0.850	3.0	0.118	15.0	0.591	25.9	1.020	33.4	1.315	6.6	0.260	5.6	0.220	12.0	0.472
0140	14.0	0.551	24.0	0.945	25.0	0.984	24.6	0.969	3.0	0.118	17.0	0.669	28.4	1.118	33.4	1.315	6.6	0.260	5.6	0.220	10.0	0.394
0150	15.0	0.591	25.0	0.984	-	-	24.6	0.969	-	-	17.0	0.669	-	-	-	-	-	-	6.6	0.260	-	-
0160	16.0	0.630	26.0	1.024	27.0	1.063	28.0	1.102	3.0	0.118	17.0	0.669	28.4	1.118	33.4	1.315	6.6	0.260	7.5	0.295	10.0	0.394
0170	17.0	0.669	28.0	1.102	33.0	1.299	30.0	1.181	3.0	0.118	19.5	0.768	-	-	-	-	7.5	0.295	8.0	0.315	10.0	0.394
0180	18.0	0.709	28.0	1.102	33.0	1.299	30.0	1.181	3.0	0.118	19.5	0.768	30.0	1.181	37.5	1.476	7.5	0.295	8.0	0.315	10.0	0.394
0200	20.0	0.787	34.0	1.339	35.0	1.378	35.0	1.378	3.0	0.118	21.5	0.846	30.0	1.181	37.5	1.476	7.5	0.295	7.5	0.295	11.5	0.453
0220	22.0	0.866	36.0	1.417	37.0	1.457	35.0	1.378	3.0	0.118	21.5	0.846	30.0	1.181	37.5	1.476	7.5	0.295	7.5	0.295	11.5	0.453
0240	24.0	0.945	38.0	1.496	39.0	1.535	38.0	1.496	3.0	0.118	22.5	0.886	32.5	1.280	42.5	1.673	7.5	0.295	7.5	0.295	11.5	0.453
0250	25.0	0.984	39.0	1.535	40.0	1.575	38.0	1.496	3.0	0.118	23.0	0.906	32.5	1.280	42.5	1.673	7.5	0.295	7.5	0.295	11.5	0.453
0280	28.0	1.102	42.0	1.654	43.0	1.693	42.0	1.654	3.0	0.118	26.5	1.043	35.0	1.378	42.5	1.673	7.5	0.295	9.0	0.354	11.5	0.453
0300	30.0	1.181	44.0	1.732	45.0	1.772	45.0	1.772	3.0	0.118	26.5	1.043	35.0	1.378	42.5	1.673	7.5	0.295	10.5	0.413	11.5	0.453
0320	32.0	1.260	46.0	1.811	48.0	1.890	48.0	1.890	3.0	0.118	27.5	1.083	35.0	1.378	47.5	1.870	7.5	0.295	10.5	0.413	11.5	0.453
0330	33.0	1.299	47.0	1.850	48.0	1.890	50.0	1.969	3.0	0.118	27.5	1.083	35.0	1.378	47.5	1.870	7.5	0.295	11.0	0.433	11.5	0.453
0350	35.0	1.378	49.0	1.929	50.0	1.969	52.0	2.047	3.0	0.118	28.5	1.122	35.0	1.378	47.5	1.870	7.5	0.295	11.0	0.433	11.5	0.453
0380	38.0	1.496	52.0	2.047	56.0	2.205	55.0	2.165	4.0	0.157	30.0	1.181	36.0	1.417	46.0	1.811	9.0	0.354	10.3	0.406	14.0	0.551
0400	40.0	1.575	55.0	2.165	58.0	2.283	58.0	2.283	4.0	0.157	30.0	1.181	36.0	1.417	46.0	1.811	9.0	0.354	10.8	0.425	14.0	0.551
0430	43.0	1.693	58.0	2.283	61.0	2.402	62.0	2.441	4.0	0.157	30.0	1.181	36.0	1.417	51.0	2.008	9.0	0.354	12.0	0.472	14.0	0.551
0450	45.0	1.772	60.0	2.362	63.0	2.480	64.0	2.519	4.0	0.157	30.0	1.181	36.0	1.417	51.0	2.008	9.0	0.354	11.6	0.457	14.0	0.551
0480	48.0	1.890	63.0	2.480	66.0	2.598	68.4	2.693	4.0	0.157	30.5	1.201	36.0	1.417	51.0	2.008	9.0	0.354	11.6	0.457	14.0	0.551
0500	50.0	1.969	65.0	2.559	70.0	2.756	69.3	2.728	4.0	0.157	30.5	1.201	38.0	1.496	50.5	1.988	9.5	0.374	11.6	0.457	15.0	0.591
0530	53.0	2.087	68.0	2.677	73.0	2.874	72.3	2.846	4.0	0.157	33.0	1.299	36.5	1.437	59.0	2.323	11.0	0.433	12.3	0.484	15.0	0.591
0550	55.0	2.165	70.0	2.756	75.0	2.953	75.4	2.969	4.0	0.157	35.0	1.378	36.5	1.437	59.0	2.323	11.0	0.433	13.3	0.524	15.0	0.591
0580	58.0	2.283	78.0	3.071	78.0	3.071	78.4	3.087	4.0	0.157	37.0	1.457	41.5	1.634	59.0	2.323	11.0	0.433	13.3	0.524	15.0	0.591
0600	60.0	2.362	80.0	3.150	80.0	3.150	80.4	3.165	4.0	0.157	38.0	1.496	41.5	1.634	59.0	2.323	11.0	0.433	13.3	0.524	15.0	0.591
0650	65.0	2.559	85.0	3.346	85.0	3.346	85.4	3.362	4.0	0.157	40.0	1.575	41.5	1.634	69.0	2.717	11.0	0.433	13.0	0.512	15.0	0.591
0680	68.0	2.677	90.0	3.543	90.0	3.543	91.5	3.602	4.0	0.157	40.0	1.575	41.2	1.622	68.7	2.705	11.3	0.445	13.7	0.539	18.0	0.709
0700	70.0	2.756	90.0	3.543	92.0	3.622	92.0	3.622	4.0	0.157	40.0	1.575	48.7	1.917	68.7	2.705	11.3	0.445	13.0	0.512	18.0	0.709
0750	75.0	2.953	95.0	3.740	97.0	3.819	99.0	3.898	4.0	0.157	40.0	1.575	48.7	1.917	68.7	2.705	11.3	0.445	14.0	0.551	18.0	0.709
0800	80.0	3.150	103.0	4.055	105.0	4.134	104.0	4.094	4.0	0.157	40.0	1.575	48.0	1.890	78.0	3.071	12.0	0.472	15.0	0.591	18.2	0.717
0850	85.0	3.346	108.0	4.252	110.0	4.331	109.0	4.291	4.0	0.157	41.0	1.614	46.0	1.811	76.0	2.992	14.0	0.551	14.8	0.583	18.2	0.717
0900	90.0	3.543	113.0	4.449	115.0	4.528	114.0	4.488	4.0	0.157	45.0	1.772	51.0	2.008	76.0	2.992	14.0	0.551	14.8	0.583	18.2	0.717
0950	95.0	3.740	118.0	4.646	120.0	4.724	120.3	4.736	4.0	0.157	46.0	1.811	51.0	2.008	76.0	2.992	14.0	0.551	15.8	0.622	17.2	0.677
1000	100.0	3.937	123.0	4.843	125.0	4.921	123.3	4.854	4.0	0.157	47.0	1.850	51.0	2.008	76.0	2.992	14.0	0.551	15.8	0.622	17.2	0.677

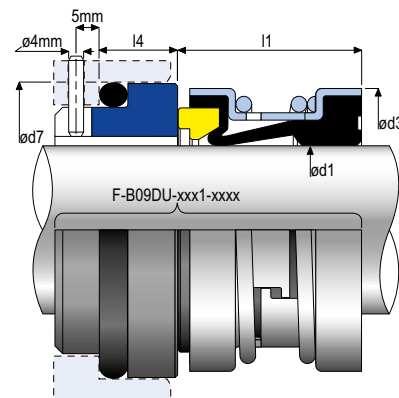


Bellows Seal

B09DU



Stock code: F-B09DU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

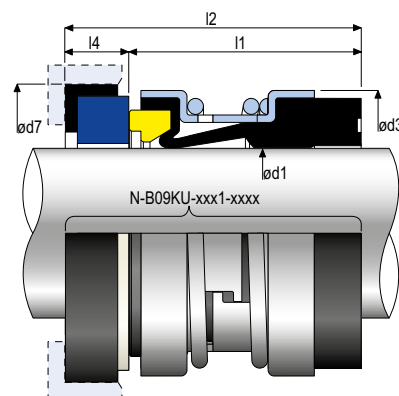
	d1		d3		d7		l1		l4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0400	40.0	1.575	55.0	2.165	58.0	2.283	30.0	1.181	14.0	0.551
0530	53.0	2.087	68.0	2.677	73.0	2.874	33.0	1.299	15.0	0.591
0600	60.0	2.362	80.0	3.150	80.0	3.150	38.0	1.496	15.0	0.591



B09KU



Stock code: N-B09KU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	R - HNBR or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		l1		l2		l4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0150	15.0	0.590	25.0	0.984	25.0	0.984	28.4	1.118	35.0	1.378	6.6	0.260
0160	16.0	0.630	26.0	1.024	27.0	1.063	28.4	1.118	35.0	1.378	6.6	0.260
0220	22.0	0.866	36.0	1.417	37.0	1.457	30.0	1.181	37.5	1.476	7.5	0.295
0280	28.0	1.102	42.0	1.654	43.0	1.693	42.5	1.673	50.0	1.969	7.5	0.295
0330	33.0	1.299	46.8	1.843	48.0	1.890	27.5	1.083	37.5	1.476	10.0	0.394
0380	38.0	1.496	52.0	2.047	56.0	2.205	46.0	1.811	55.0	2.165	9.0	0.354
0480	48.0	1.890	63.0	2.480	66.0	2.598	51.0	2.008	60.0	2.362	9.0	0.354

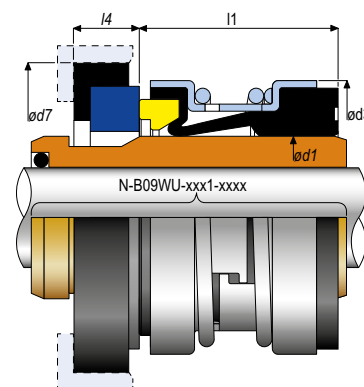


B09WU

Stock code: N-B09WU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon	D - Silicon Carbide (RB)	Y - EPR (EPDM)	1

	d1		d3		d7		l1		l4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0320	32.0	1.260	46.0	1.811	50.8	2.000	33.4	1.315	12.0	0.472
0550	55.0	2.165	70.0	2.756	76.2	3.000	41.0	1.614	13.5	0.531

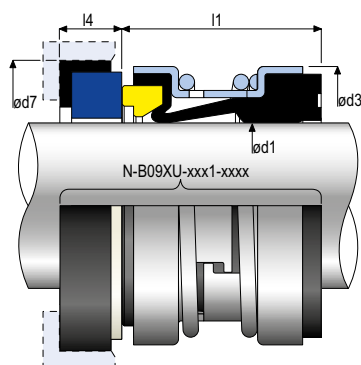


B09XU

Stock code: N-B09XU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

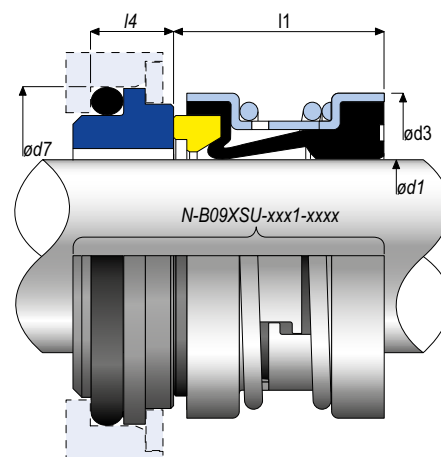
	d1		d3		d7		l1		l4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	22.0	0.866	21.1	0.831	17.0	0.669	7.5	0.295
0140	14.0	0.551	24.0	0.945	26.0	1.024	16.9	0.665	4.1	0.161
0140-B	14.0	0.551	24.0	0.945	35.0	1.378	16.9	0.665	2.5	0.098
0150	15.0	0.591	25.0	0.984	35.0	1.378	17.0	0.669	3.9	0.154
0150-B	15.0	0.591	25.0	0.984	25.0	0.984	17.0	0.669	7.7	0.303
0150-C	15.0	0.591	25.0	0.984	38.0	1.496	17.0	0.669	8.0	0.315
0150-D	15.0	0.591	25.0	0.984	38.0	1.496	17.0	0.669	6.0	0.236
0160	16.0	0.630	26.0	1.024	30.1	1.187	22.5	0.886	10.0	0.394
0170	17.0	0.669	28.0	1.102	33.0	1.299	19.5	0.768	7.5	0.295
0180	18.0	0.709	28.0	1.102	29.5	1.161	25.4	1.000	8.8	0.346
0200	20.0	0.787	34.0	1.339	36.5	1.437	21.5	0.846	12.0	0.472
0200-B	20.0	0.787	34.0	1.339	38.1	1.500	30.0	1.181	10.0	0.394
0200-C	20.0	0.787	34.0	1.339	42.0	1.654	21.5	0.846	8.0	0.315
0200-D	20.0	0.787	34.0	1.339	38.1	1.500	21.5	0.846	10.0	0.394
0250	25.0	0.984	39.0	1.535	40.0	1.575	22.5	0.886	7.5	0.295
0250-B	25.0	0.984	39.0	1.535	38.0	1.496	23.0	0.906	7.5	0.295
0250-C	25.0	0.984	39.0	1.535	45.0	1.772	23.0	0.906	11.5	0.453
0250-D	25.0	0.984	39.0	1.535	40.5	1.594	23.0	0.906	6.5	0.256
0250-E	25.0	0.984	39.0	1.535	40.0	1.575	23.0	0.906	4.0	0.157
0250-F	25.0	0.984	39.0	1.535	42.0	1.654	23.0	0.906	11.0	0.433
0250-G	25.0	0.984	39.0	1.535	40.5	1.594	23.0	0.906	9.4	0.370
0250-H	25.0	0.984	39.0	1.535	38.0	1.496	23.0	0.906	5.5	0.216
0250-I	25.0	0.984	39.0	1.535	42.0	1.654	27.0	1.063	11.0	0.433
0300	30.0	1.181	44.0	1.732	50.8	2.000	27.0	1.063	5.5	0.216
0320	32.0	1.260	46.0	1.811	48.0	1.890	40.0	1.575	7.5	0.295
0320-B	32.0	1.260	46.0	1.811	50.8	2.000	33.4	1.315	12.0	0.472
0350	35.0	1.378	49.0	1.929	52.0	2.047	32.0	1.260	15.0	0.591
0400	40.0	1.575	55.0	2.165	54.0	2.126	30.0	1.181	11.0	0.433
0400-B	40.0	1.575	55.0	2.165	58.0	2.283	30.0	1.181	11.0	0.433
0400-C	40.0	1.575	55.0	2.165	58.0	2.283	34.0	1.339	9.0	0.354
0450	45.0	1.772	60.0	2.362	65.0	2.559	30.0	1.181	12.5	0.492
0500	50.0	1.969	65.0	2.559	70.0	2.756	35.0	1.378	13.0	0.512
0550	55.0	2.165	70.0	2.756	76.2	3.000	43.5	1.713	13.5	0.531
0550-B	55.0	2.165	70.0	2.756	76.2	3.000	35.0	1.378	13.5	0.531
0750	75.0	2.953	95.0	3.740	97.0	3.819	40.0	1.575	15.3	0.602
0800	80.0	3.150	103.0	4.055	104.0	4.094	40.0	1.575	15.0	0.591
0900	90.0	3.543	113.0	4.449	115.0	4.528	45.0	1.772	15.7	0.618



Bellows Seal

B09XSU

Stock code: N-B09XSU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or J - Sintered SiC	D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0380	38.0	1.496	52.0	2.047	56.0	2.205	36.0	1.417	9.0	0.354
0400	40.0	1.575	55.0	2.165	58.0	2.283	34.0	1.339	11.5	0.453
0480	48.0	1.890	63.0	2.480	67.0	2.638	30.5	1.201	10.3	0.406
0480B	48.0	1.890	63.0	2.480	66.0	2.598	36.0	1.417	9.0	0.354
0530	53.0	2.087	68.0	2.677	73.0	2.874	36.5	1.437	13.5	0.531
0650	65.0	2.559	85.0	3.346	86.0	3.386	40.0	1.575	11.5	0.453
0650B	65.0	2.559	85.0	3.346	85.0	3.346	41.5	1.634	11.0	0.433
0750	75.0	2.952	95.0	3.740	99.0	3.897	40.0	1.575	14.0	0.551
0900	90.0	3.543	113.0	4.449	114.0	4.488	45.0	1.772	13.3	0.524
0900B	90.0	3.543	113.0	4.449	115.0	4.528	51.0	2.008	14.0	0.551
1000	100.0	3.937	123.0	4.843	123.3	4.854	44.7	1.760	11.7	0.461

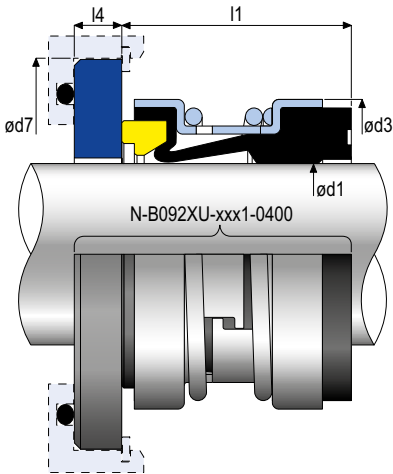


B092XU

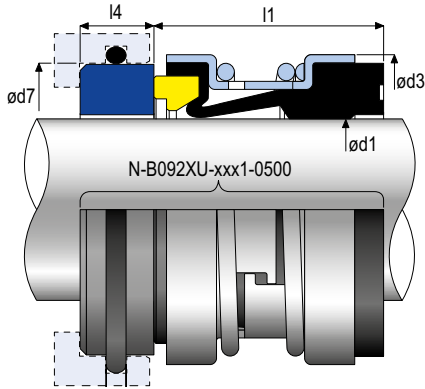
Stock code: N-B092XU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

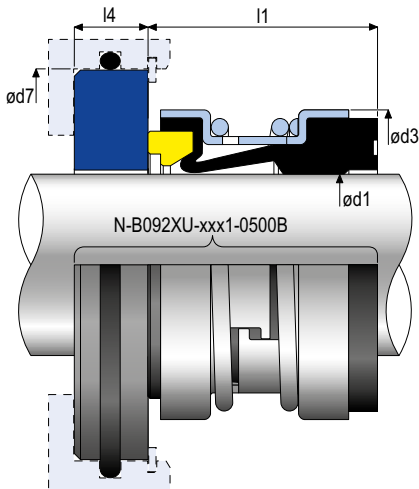
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0400	40.0	1.575	55.0	2.165	70.0	2.756	32.0	1.260	7.3	0.287
0500	50.0	1.969	65.0	2.559	64.5	2.539	34.0	1.339	10.3	0.406
0500B	50.0	1.969	65.0	2.559	90.0	3.543	34.0	1.339	13.0	0.512
0900	90.0	3.543	113.0	4.449	115.0	4.528	47.6	1.874	14.0	0.551



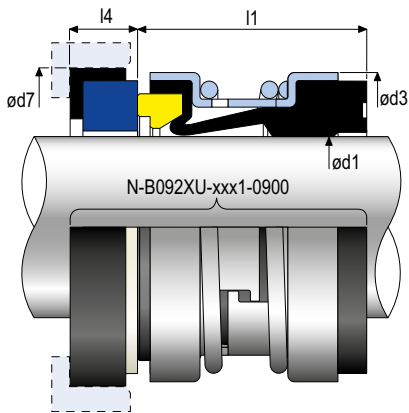
0400
(Size)



0500
(Size)



0500B
(Size)

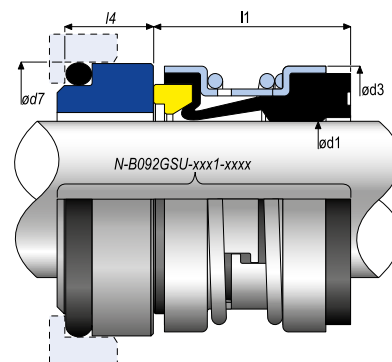


0900
(Size)

Bellows Seal

B092GSU

Stock code: N-B092GSU-xxxx-xxxx

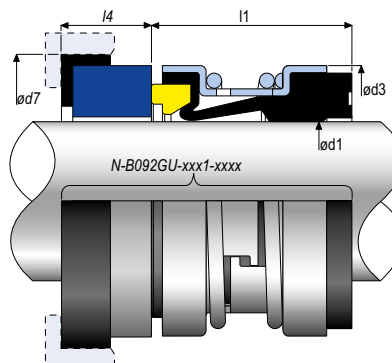


Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		I1		I4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
G - Tungsten Carbide or H - Antimony Carbon	G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1	0120	12.0	0.472	22.0	0.866	23.0	0.906	25.9	1.020	15.0	0.591
				0160	16.0	0.630	26.0	1.024	27.0	1.063	28.4	1.118	12.3	0.484
				0220	22.0	0.866	36.0	1.417	37.0	1.457	30.0	1.181	11.1	0.437
				0330	33.0	1.299	47.0	1.850	48.0	1.890	35.0	1.378	7.5	0.295



B092GU

Stock code: N-B092GU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		I1		I4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
G - Tungsten Carbide or H - Antimony Carbon	G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1	0120	12.0	0.472	22.0	0.866	23.0	0.906	25.9	1.020	14.1	0.555
				0160	16.0	0.630	26.0	1.024	27.0	1.063	28.4	1.118	11.6	0.457
				0220	22.0	0.866	36.0	1.417	37.0	1.457	30.0	1.181	15.0	0.591

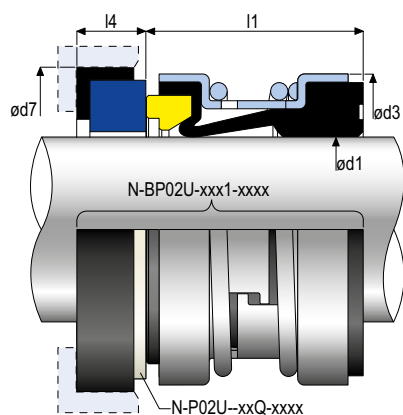


BP02U

Stock code: N-BP02U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity



Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	22.0	0.866	27.7	1.091	25.4	1.000	8.7	0.343
0127	12.7	0.500	22.0	0.866	27.7	1.091	25.4	1.000	8.7	0.343
0130	13.0	0.512	22.0	0.866	27.7	1.091	25.4	1.000	8.7	0.343
0140	14.0	0.551	24.0	0.945	30.9	1.217	25.4	1.000	10.3	0.406
0150	15.0	0.591	25.0	0.984	30.9	1.217	25.4	1.000	10.3	0.406
0158	15.8	0.622	26.0	1.024	30.9	1.217	25.4	1.000	10.3	0.406
0160	16.0	0.630	26.0	1.024	30.9	1.217	25.4	1.000	10.3	0.406
0180	18.0	0.709	28.0	1.102	34.1	1.343	25.4	1.000	10.3	0.406
0190	19.0	0.748	28.0	1.102	34.1	1.343	25.4	1.000	10.3	0.406
0191	19.1	0.752	28.0	1.102	34.1	1.343	25.4	1.000	10.3	0.406
0200	20.0	0.787	34.0	1.339	35.7	1.406	25.4	1.000	10.3	0.406
0220	22.0	0.866	36.0	1.417	37.3	1.469	25.4	1.000	10.3	0.406
0222	22.2	0.874	36.0	1.417	37.3	1.469	25.4	1.000	10.3	0.406
0240	24.0	0.945	38.0	1.496	40.5	1.594	25.4	1.000	10.3	0.406
0250	25.0	0.984	39.0	1.535	40.5	1.594	25.4	1.000	10.3	0.406
0254	25.4	1.000	39.0	1.535	40.5	1.594	25.4	1.000	10.3	0.406
0280	28.0	1.102	42.0	1.654	47.6	1.875	33.3	1.311	11.9	0.469
0286	28.6	1.126	42.0	1.654	47.6	1.875	33.3	1.311	11.9	0.469
0300	30.0	1.181	44.0	1.732	50.8	2.000	33.3	1.311	11.9	0.469
0317	31.7	1.248	46.0	1.811	50.8	2.000	33.3	1.311	11.9	0.469
0320	32.0	1.260	46.0	1.811	50.8	2.000	33.3	1.311	11.9	0.469
0330	33.0	1.299	47.0	1.850	53.9	2.125	33.3	1.311	11.9	0.469
0349	34.9	1.374	49.0	1.929	53.9	2.125	33.3	1.311	11.9	0.469
0350	35.0	1.378	49.0	1.929	53.9	2.125	33.3	1.311	11.9	0.469
0380	38.0	1.496	52.0	2.047	57.1	2.250	33.3	1.311	11.9	0.469
0381	38.1	1.500	52.0	2.047	57.1	2.250	33.3	1.311	11.9	0.469
0400	40.0	1.575	55.0	2.165	60.3	2.375	33.3	1.311	11.9	0.469
0412	41.2	1.622	55.0	2.165	60.3	2.375	33.3	1.311	11.9	0.469
0420	42.0	1.654	58.0	2.283	63.5	2.500	40.4	1.591	11.9	0.469
0430	43.0	1.693	58.0	2.283	63.5	2.500	40.4	1.591	11.9	0.469
0440	44.0	1.732	58.0	2.283	63.5	2.500	40.4	1.591	11.9	0.469
0444	44.4	1.748	60.0	2.362	63.5	2.500	40.4	1.591	11.9	0.469
0450	45.0	1.772	60.0	2.362	63.5	2.500	40.4	1.591	11.9	0.469
0476	47.6	1.874	63.0	2.480	66.6	2.625	40.4	1.591	11.9	0.469
0480	48.0	1.890	63.0	2.480	66.6	2.625	40.4	1.591	11.9	0.469
0500	50.0	1.969	65.0	2.559	69.8	2.750	40.4	1.591	11.9	0.469
0508	50.8	2.000	65.0	2.559	69.8	2.750	40.4	1.591	13.5	0.531
0530	53.0	2.087	68.0	2.677	73.0	2.875	41.0	1.614	13.5	0.531
0539	53.9	2.122	68.0	2.677	73.0	2.875	41.0	1.614	13.5	0.531
0550	55.0	2.165	70.0	2.756	76.2	3.000	41.0	1.614	13.5	0.531
0571	57.1	2.248	78.0	3.071	76.2	3.000	41.0	1.614	13.5	0.531
0580	58.0	2.283	78.0	3.071	79.3	3.125	41.0	1.614	13.5	0.531
0600	60.0	2.362	80.0	3.150	79.3	3.125	41.0	1.614	13.5	0.531
0603	60.3	2.374	80.0	3.150	79.3	3.125	41.0	1.614	13.5	0.531
0630	63.0	2.480	85.0	3.346	82.5	3.250	41.0	1.614	13.5	0.531
0635	63.5	2.500	85.0	3.346	82.5	3.250	41.0	1.614	13.5	0.531
0650	65.0	2.559	85.0	3.346	92.1	3.625	49.0	1.929	15.9	0.626
0666	66.6	2.622	85.0	3.346	92.1	3.625	49.0	1.929	15.9	0.626
0698	69.8	2.748	90.0	3.543	95.2	3.750	49.0	1.929	15.9	0.626
0700	70.0	2.756	90.0	3.543	95.2	3.750	49.0	1.929	15.9	0.626
0730	73.0	2.874	95.0	3.740	98.4	3.875	49.0	1.929	15.9	0.626
0750	75.0	2.953	95.0	3.740	101.6	4.000	49.0	1.929	15.9	0.626
0762	76.2	3.000	95.0	3.740	101.6	4.000	49.0	1.929	15.9	0.626



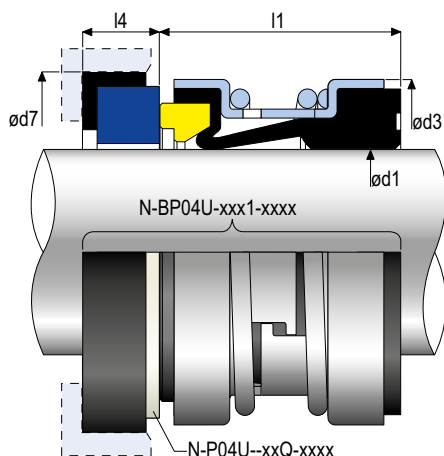
Bellows Seal

BP04U

Stock code: N-BP04U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide*	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide*	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity



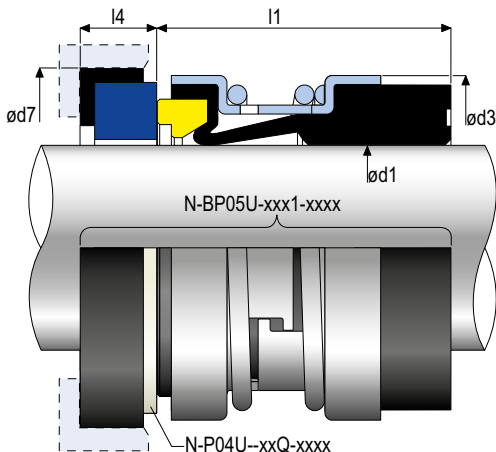
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	22.0	0.866	25.4	1.000	20.6	0.811	7.9	0.311
0158	15.8	0.625	26.0	1.024	31.7	1.250	22.2	0.874	10.3	0.406
0191	19.1	0.750	28.0	1.102	34.9	1.375	22.2	0.874	10.3	0.406
0222	22.2	0.875	36.0	1.417	38.1	1.500	23.8	0.937	10.3	0.406
0254	25.4	1.000	39.0	1.535	41.2	1.625	25.4	1.000	11.1	0.437
0286	28.6	1.125	42.0	1.654	44.4	1.750	26.9	1.059	11.1	0.437
0317	31.7	1.250	46.0	1.811	47.6	1.875	27.5	1.083	11.1	0.437
0349	34.9	1.375	49.0	1.929	50.8	2.000	28.5	1.122	11.1	0.437
0381	38.1	1.500	52.0	2.047	53.9	2.125	30.0	1.181	9.6	0.378
0412	41.2	1.625	55.0	2.165	60.3	2.375	34.9	1.374	12.7	0.500
0444	44.4	1.750	60.0	2.362	63.5	2.500	34.9	1.374	12.7	0.500
0476	47.6	1.875	63.0	2.480	66.6	2.625	38.1	1.500	12.7	0.500
0508	50.8	2.000	65.0	2.559	69.8	2.750	38.1	1.500	12.7	0.500
0539	53.9	2.125	68.0	2.677	76.2	3.000	42.8	1.685	14.2	0.559
0571	57.1	2.250	78.0	3.071	79.3	3.125	42.8	1.685	14.2	0.559
0603	60.3	2.375	80.0	3.150	82.5	3.250	46.0	1.811	14.2	0.559
0635	63.5	2.500	85.0	3.346	85.7	3.375	46.0	1.811	14.2	0.559
0666	66.6	2.625	85.0	3.346	85.7	3.375	49.2	1.937	15.9	0.626
0698	69.8	2.750	90.0	3.543	88.9	3.500	49.2	1.937	15.9	0.626
0730	73.0	2.875	95.0	3.740	95.2	3.750	52.3	2.059	15.9	0.626
0762	76.2	3.000	95.0	3.740	98.4	3.875	52.3	2.059	15.9	0.626

BP05U

Stock code: N-BP05U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide*	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide*	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity



Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	22.0	0.866	25.4	1.000	31.7	1.248	7.9	0.311
0158	15.8	0.625	26.0	1.024	31.7	1.250	34.9	1.374	10.3	0.406
0191	19.1	0.750	28.0	1.102	34.9	1.375	34.9	1.374	10.3	0.406
0222	22.2	0.875	36.0	1.417	38.1	1.500	36.5	1.437	10.3	0.406
0254	25.4	1.000	39.0	1.535	41.2	1.625	41.2	1.622	11.1	0.437
0286	28.6	1.125	42.0	1.654	44.4	1.750	42.8	1.685	11.1	0.437
0317	31.7	1.250	46.0	1.811	47.6	1.875	42.8	1.685	11.1	0.437
0349	34.9	1.375	49.0	1.929	50.8	2.000	42.8	1.685	11.1	0.437
0381	38.1	1.500	52.0	2.047	53.9	2.125	42.8	1.685	11.1	0.437
0412	41.2	1.625	55.0	2.165	60.3	2.375	50.8	2.000	12.7	0.500
0444	44.4	1.750	60.0	2.362	63.5	2.500	50.8	2.000	12.7	0.500
0476	47.6	1.875	63.0	2.480	66.6	2.625	53.9	2.122	12.7	0.500
0508	50.8	2.000	65.0	2.559	69.8	2.750	53.9	2.122	12.7	0.500
0539	53.9	2.125	68.0	2.677	76.2	3.000	60.3	2.374	14.2	0.559
0571	57.1	2.250	78.0	3.071	79.3	3.125	60.3	2.374	14.2	0.559
0603	60.3	2.375	80.0	3.150	82.5	3.250	63.5	2.500	14.2	0.559
0635	63.5	2.500	85.0	3.346	85.7	3.375	63.5	2.500	14.2	0.559
0666	66.6	2.625	85.0	3.346	85.7	3.375	69.8	2.748	15.9	0.626
0698	69.8	2.750	90.0	3.543	88.9	3.500	69.8	2.748	15.9	0.626
0730	73.0	2.875	95.0	3.740	95.2	3.750	73.0	2.874	15.9	0.626
0762	76.2	3.000	95.0	3.740	98.4	3.875	73.0	2.874	15.9	0.626



BP06U

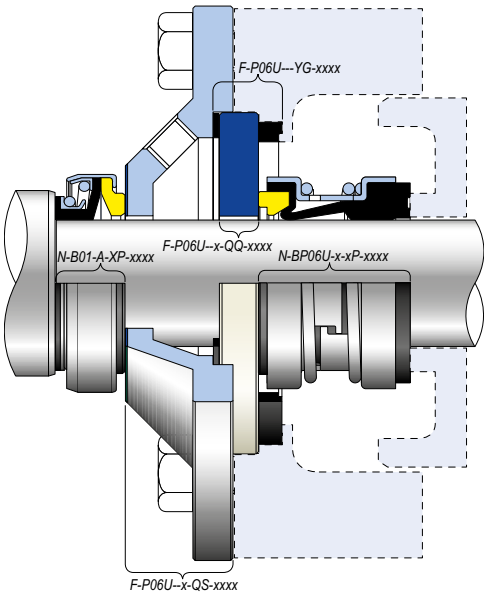
Stock code: F-BP06U-xxxx-xxxx

Parts are available in the following materials:

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	E - Stainless Steel or B - Alumina Ceramic or J - Sintered SiC or O - Chrome Oxide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

*Availability subject to component

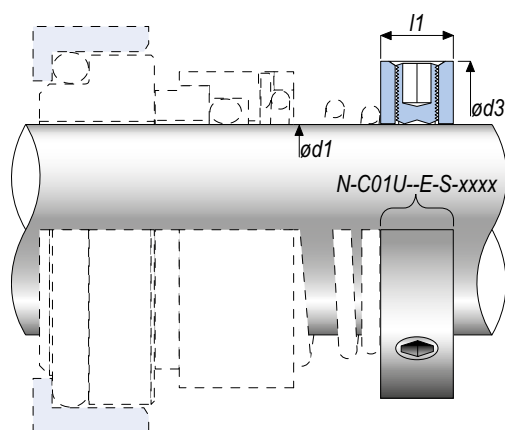
Size	d1	
	Metric	Inches
0254	25.4	1.000
0381	38.1	1.500



Clamp Ring

C01U

Stock code: N-C01U--E-S-xxxx

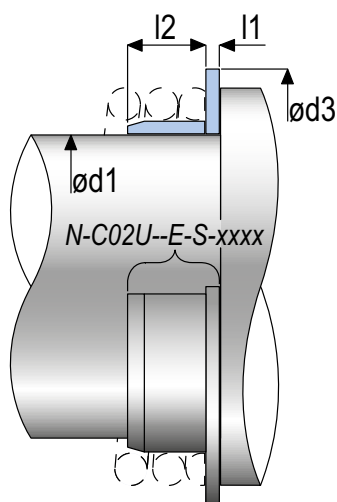


Size	d1		d3		l1	
	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	25.0	0.984	7.5	0.295
0127	12.7	0.500	26.0	1.024	7.5	0.295
0140	14.0	0.551	27.0	1.063	7.5	0.295
0150	15.0	0.591	28.0	1.102	7.5	0.295
0158	15.8	0.622	29.0	1.142	7.5	0.295
0160	16.0	0.630	29.0	1.142	7.5	0.295
0180	18.0	0.709	31.0	1.220	7.5	0.295
0191	19.1	0.752	32.0	1.260	7.5	0.295
0200	20.0	0.787	33.0	1.299	7.5	0.295
0220	22.0	0.866	35.0	1.378	7.5	0.295
0222	22.2	0.874	35.0	1.378	7.5	0.295
0240	24.0	0.945	37.0	1.457	7.5	0.295
0250	25.0	0.984	38.0	1.496	7.5	0.295
0254	25.4	1.000	39.0	1.535	7.5	0.295
0280	28.0	1.102	41.0	1.614	7.5	0.295
0286	28.6	1.126	42.0	1.654	7.5	0.295
0300	30.0	1.181	43.0	1.693	7.5	0.295
0317	31.7	1.248	45.0	1.772	7.5	0.295
0320	32.0	1.260	45.0	1.772	7.5	0.295
0349	34.9	1.374	48.0	1.890	7.5	0.295
0350	35.0	1.378	48.0	1.890	7.5	0.295
0380	38.0	1.496	53.0	2.087	10.0	0.394
0381	38.1	1.500	53.0	2.087	10.0	0.394
0400	40.0	1.575	55.0	2.165	10.0	0.394
0412	41.2	1.622	56.0	2.205	10.0	0.394
0420	42.0	1.654	57.0	2.244	10.0	0.394
0430	43.0	1.693	58.0	2.283	10.0	0.394
0444	44.4	1.748	60.0	2.362	10.0	0.394
0450	45.0	1.772	60.0	2.362	10.0	0.394
0476	47.6	1.874	63.0	2.480	10.0	0.394
0480	48.0	1.890	63.0	2.480	10.0	0.394
0500	50.0	1.969	65.0	2.559	10.0	0.394
0508	50.8	2.000	66.0	2.598	10.0	0.394
0520	52.0	2.047	67.0	2.638	10.0	0.394
0530	53.0	2.087	68.0	2.677	10.0	0.394
0539	53.9	2.122	69.0	2.717	10.0	0.394
0550	55.0	2.165	70.0	2.756	10.0	0.394
0571	57.1	2.248	72.0	2.835	10.0	0.394
0580	58.0	2.283	73.0	2.874	10.0	0.394
0600	60.0	2.362	79.0	3.110	10.0	0.394
0603	60.3	2.374	79.0	3.110	10.0	0.394
0620	62.0	2.441	81.0	3.189	10.0	0.394
0635	63.5	2.500	83.0	3.268	10.0	0.394
0650	65.0	2.559	84.0	3.307	10.0	0.394
0666	66.6	2.622	86.0	3.386	10.0	0.394
0680	68.0	2.677	87.0	3.425	10.0	0.394
0698	69.8	2.748	89.0	3.504	10.0	0.394
0700	70.0	2.756	89.0	3.504	10.0	0.394
0730	73.0	2.874	95.0	3.740	12.0	0.472
0750	75.0	2.953	97.0	3.819	12.0	0.472
0762	76.2	3.000	98.0	3.858	12.0	0.472
0800	80.0	3.150	102.0	4.016	12.0	0.472
0825	82.5	3.248	105.0	4.134	12.0	0.472
0850	85.0	3.346	107.0	4.213	12.0	0.472
0889	88.9	3.500	111.0	4.370	12.0	0.472
0900	90.0	3.543	112.0	4.409	12.0	0.472
0950	95.0	3.740	117.0	4.606	12.0	0.472
1000	100.0	3.937	122.0	4.803	12.0	0.472
1016	101.6	4.000	124.0	4.882	12.0	0.472
1050	105.0	4.134	127.0	5.000	12.0	0.472
1100	110.0	4.331	132.0	5.197	12.0	0.472
1150	115.0	4.528	137.0	5.394	12.0	0.472



C02U

Stock code: N-C02U--E-S-xxxx



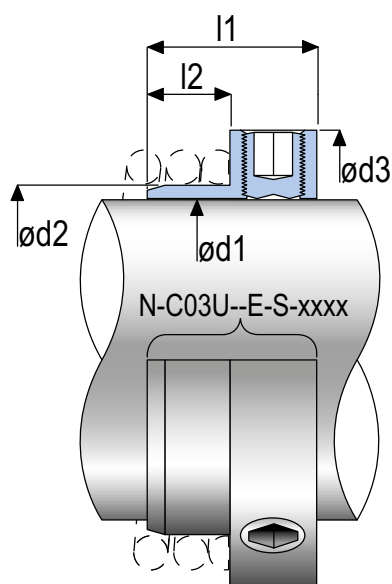
Size	d1		d3		l1		l2	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	21.0	0.827	1.5	0.059	7.5	0.295
0127	12.7	0.500	21.0	0.827	1.5	0.059	7.5	0.295
0140	14.0	0.551	23.0	0.906	1.5	0.059	7.5	0.295
0150	15.0	0.591	24.0	0.945	1.5	0.059	7.5	0.295
0158	15.8	0.622	25.0	0.984	1.5	0.059	7.5	0.295
0160	16.0	0.630	25.0	0.984	1.5	0.059	7.5	0.295
0180	18.0	0.709	31.0	1.220	1.5	0.059	7.5	0.295
0191	19.1	0.752	31.0	1.220	1.5	0.059	7.5	0.295
0200	20.0	0.787	33.0	1.299	1.5	0.059	7.5	0.295
0220	22.0	0.866	35.0	1.378	1.5	0.059	7.5	0.295
0222	22.2	0.874	35.0	1.378	1.5	0.059	7.5	0.295
0240	24.0	0.945	37.0	1.457	1.5	0.059	7.5	0.295
0250	25.0	0.984	38.0	1.496	1.5	0.059	7.5	0.295
0254	25.4	1.000	38.0	1.496	1.5	0.059	7.5	0.295
0280	28.0	1.102	41.0	1.614	2.0	0.079	9.0	0.354
0286	28.6	1.126	41.0	1.614	2.0	0.079	9.0	0.354
0300	30.0	1.181	43.0	1.693	2.0	0.079	9.0	0.354
0317	31.7	1.248	45.0	1.772	2.0	0.079	9.0	0.354
0320	32.0	1.260	45.0	1.772	2.0	0.079	9.0	0.354
0349	34.9	1.374	48.0	1.890	2.0	0.079	9.0	0.354
0350	35.0	1.378	48.0	1.890	2.0	0.079	9.0	0.354
0380	38.0	1.496	53.0	2.087	2.0	0.079	9.0	0.354
0381	38.1	1.500	53.0	2.087	2.0	0.079	9.0	0.354
0400	40.0	1.575	55.0	2.165	2.0	0.079	9.0	0.354
0412	41.2	1.622	55.0	2.165	2.0	0.079	9.0	0.354
0420	42.0	1.654	57.0	2.244	2.0	0.079	9.0	0.354
0430	43.0	1.693	58.0	2.283	2.0	0.079	9.0	0.354
0444	44.4	1.748	60.0	2.362	2.0	0.079	9.0	0.354
0450	45.0	1.772	60.0	2.362	2.0	0.079	9.0	0.354
0476	47.6	1.874	63.0	2.480	2.0	0.079	9.0	0.354
0480	48.0	1.890	63.0	2.480	2.0	0.079	9.0	0.354
0500	50.0	1.969	65.0	2.559	2.0	0.079	9.0	0.354
0508	50.8	2.000	65.0	2.559	3.0	0.118	12.0	0.472
0520	52.0	2.047	67.0	2.638	3.0	0.118	12.0	0.472
0530	53.0	2.087	68.0	2.677	3.0	0.118	12.0	0.472
0539	53.9	2.122	68.0	2.677	3.0	0.118	12.0	0.472
0550	55.0	2.165	70.0	2.756	3.0	0.118	12.0	0.472
0571	57.1	2.248	70.0	2.756	3.0	0.118	12.0	0.472
0580	58.0	2.283	73.0	2.874	3.0	0.118	12.0	0.472
0600	60.0	2.362	79.0	3.110	3.0	0.118	12.0	0.472
0603	60.3	2.374	79.0	3.110	3.0	0.118	12.0	0.472
0620	62.0	2.441	81.0	3.189	3.0	0.118	12.0	0.472
0635	63.5	2.500	82.0	3.228	3.0	0.118	12.0	0.472
0650	65.0	2.559	84.0	3.307	3.0	0.118	12.0	0.472
0666	66.6	2.622	84.0	3.307	3.0	0.118	12.0	0.472
0680	68.0	2.677	87.0	3.425	3.0	0.118	12.0	0.472
0698	69.8	2.748	89.0	3.504	3.0	0.118	12.0	0.472
0700	70.0	2.756	89.0	3.504	3.0	0.118	12.0	0.472
0730	73.0	2.874	95.0	3.740	3.0	0.118	12.0	0.472
0750	75.0	2.953	98.0	3.858	3.0	0.118	12.0	0.472
0762	76.2	3.000	98.0	3.858	3.0	0.118	15.0	0.591
0800	80.0	3.150	102.0	4.016	3.0	0.118	15.0	0.591
0825	82.5	3.248	105.0	4.134	3.0	0.118	15.0	0.591
0850	85.0	3.346	107.0	4.213	3.0	0.118	15.0	0.591
0889	88.9	3.500	111.0	4.370	3.0	0.118	15.0	0.591
0900	90.0	3.543	112.0	4.409	3.0	0.118	15.0	0.591
0950	95.0	3.740	117.0	4.606	3.0	0.118	15.0	0.591
1000	100.0	3.937	122.0	4.803	3.0	0.118	20.0	0.787
1016	101.6	4.000	124.0	4.882	3.0	0.118	20.0	0.787
1050	105.0	4.134	127.0	5.000	3.0	0.118	20.0	0.787
1100	110.0	4.331	132.0	5.197	3.0	0.118	20.0	0.787
1150	115.0	4.528	137.0	5.394	3.0	0.118	20.0	0.787



Clamp Ring

C03U

Stock code: N-C03U--E-S-xxxx



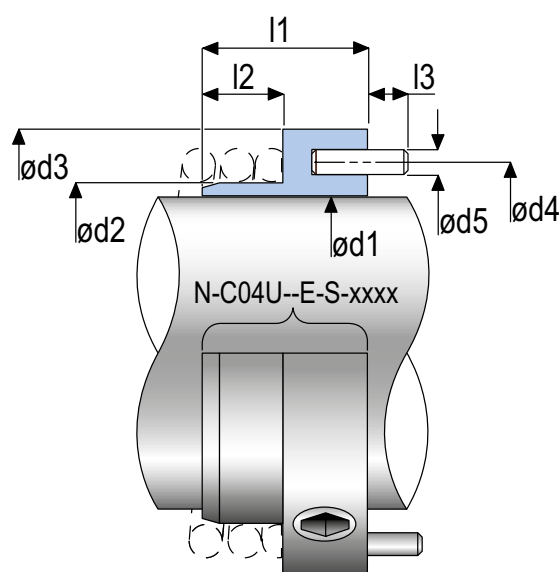
Size	d1		d2		d3		l1		l2	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	15.0	0.591	21.0	0.827	15.0	0.591	6.0	0.236
0127	12.7	0.500	16.0	0.630	21.0	0.827	15.0	0.591	6.0	0.236
0140	14.0	0.551	17.0	0.669	23.0	0.906	15.0	0.591	6.0	0.236
0150	15.0	0.591	18.0	0.709	24.0	0.945	15.0	0.591	6.0	0.236
0158	15.8	0.622	19.0	0.748	25.0	0.984	15.0	0.591	6.0	0.236
0160	16.0	0.630	19.0	0.748	25.0	0.984	15.0	0.591	6.0	0.236
0180	18.0	0.709	21.0	0.827	31.0	1.220	15.0	0.591	6.0	0.236
0191	19.1	0.752	22.0	0.866	31.0	1.220	15.0	0.591	6.0	0.236
0200	20.0	0.787	23.0	0.906	33.0	1.299	15.0	0.591	6.0	0.236
0220	22.0	0.866	25.0	0.984	35.0	1.378	15.0	0.591	6.0	0.236
0222	22.2	0.874	25.0	0.984	35.0	1.378	15.0	0.591	6.0	0.236
0240	24.0	0.945	27.0	1.063	37.0	1.457	15.0	0.591	6.0	0.236
0250	25.0	0.984	28.0	1.102	38.0	1.496	15.0	0.591	6.0	0.236
0254	25.4	1.000	29.0	1.142	38.0	1.496	15.0	0.591	6.0	0.236
0280	28.0	1.102	32.0	1.260	41.0	1.614	16.5	0.650	7.0	0.276
0286	28.6	1.126	33.0	1.299	41.0	1.614	16.5	0.650	7.0	0.276
0300	30.0	1.181	34.0	1.339	43.0	1.693	16.5	0.650	7.0	0.276
0317	31.7	1.248	36.0	1.417	45.0	1.772	16.5	0.650	7.0	0.276
0320	32.0	1.260	36.0	1.417	45.0	1.772	16.5	0.650	7.0	0.276
0349	34.9	1.374	39.0	1.535	48.0	1.890	16.5	0.650	7.0	0.276
0350	35.0	1.378	39.0	1.535	48.0	1.890	16.5	0.650	7.0	0.276
0380	38.0	1.496	42.0	1.654	53.0	2.087	19.0	0.748	7.0	0.276
0381	38.1	1.500	42.0	1.654	53.0	2.087	19.0	0.748	7.0	0.276
0400	40.0	1.575	44.0	1.732	55.0	2.165	19.0	0.748	7.0	0.276
0412	41.2	1.622	45.0	1.772	55.0	2.165	19.0	0.748	7.0	0.276
0420	42.0	1.654	46.0	1.811	57.0	2.244	19.0	0.748	7.0	0.276
0430	43.0	1.693	47.0	1.850	58.0	2.283	19.0	0.748	7.0	0.276
0444	44.4	1.748	49.0	1.929	60.0	2.362	19.0	0.748	7.0	0.276
0450	45.0	1.772	49.0	1.929	60.0	2.362	19.0	0.748	7.0	0.276
0476	47.6	1.874	52.0	2.047	63.0	2.480	19.0	0.748	7.0	0.276
0480	48.0	1.890	52.0	2.047	63.0	2.480	19.0	0.748	7.0	0.276
0500	50.0	1.969	54.0	2.126	65.0	2.559	19.0	0.748	7.0	0.276
0508	50.8	2.000	56.0	2.205	65.0	2.559	22.0	0.866	9.0	0.354
0520	52.0	2.047	57.0	2.244	67.0	2.638	22.0	0.866	9.0	0.354
0530	53.0	2.087	58.0	2.283	68.0	2.677	22.0	0.866	9.0	0.354
0539	53.9	2.122	59.0	2.323	68.0	2.677	22.0	0.866	9.0	0.354
0550	55.0	2.165	60.0	2.362	70.0	2.756	22.0	0.866	9.0	0.354
0571	57.1	2.248	62.0	2.441	70.0	2.756	22.0	0.866	9.0	0.354
0580	58.0	2.283	63.0	2.480	73.0	2.874	22.0	0.866	9.0	0.354
0600	60.0	2.362	65.0	2.559	79.0	3.110	22.0	0.866	9.0	0.354
0603	60.3	2.374	65.0	2.559	79.0	3.110	22.0	0.866	9.0	0.354
0620	62.0	2.441	67.0	2.638	81.0	3.189	22.0	0.866	9.0	0.354
0635	63.5	2.500	69.0	2.717	82.0	3.228	22.0	0.866	9.0	0.354
0650	65.0	2.559	70.0	2.756	84.0	3.307	22.0	0.866	9.0	0.354
0666	66.6	2.622	72.0	2.835	84.0	3.307	22.0	0.866	9.0	0.354
0680	68.0	2.677	73.0	2.874	87.0	3.425	22.0	0.866	9.0	0.354
0698	69.8	2.748	75.0	2.953	89.0	3.504	22.0	0.866	9.0	0.354
0700	70.0	2.756	75.0	2.953	89.0	3.504	22.0	0.866	9.0	0.354
0730	73.0	2.874	78.0	3.071	95.0	3.740	24.0	0.945	9.0	0.354
0750	75.0	2.953	80.0	3.150	98.0	3.858	24.0	0.945	9.0	0.354
0762	76.2	3.000	82.0	3.228	98.0	3.858	27.0	1.063	12.0	0.472
0800	80.0	3.150	86.0	3.386	102.0	4.016	27.0	1.063	12.0	0.472
0825	82.5	3.248	89.0	3.504	105.0	4.134	27.0	1.063	12.0	0.472
0850	85.0	3.346	91.0	3.583	107.0	4.213	27.0	1.063	12.0	0.472
0889	88.9	3.500	95.0	3.740	111.0	4.370	27.0	1.063	12.0	0.472
0900	90.0	3.543	96.0	3.780	112.0	4.409	27.0	1.063	12.0	0.472
0950	95.0	3.740	101.0	3.976	117.0	4.606	27.0	1.063	12.0	0.472
1000	100.0	3.937	106.0	4.173	122.0	4.803	32.0	1.260	17.0	0.669
1016	101.6	4.000	108.0	4.252	124.0	4.882	32.0	1.260	17.0	0.669
1050	105.0	4.134	111.0	4.370	127.0	5.000	32.0	1.260	17.0	0.669
1100	110.0	4.331	116.0	4.567	132.0	5.197	32.0	1.260	17.0	0.669
1150	115.0	4.528	121.0	4.764	137.0	5.394	32.0	1.260	17.0	0.669



C04U

Stock code: N-C04U--E-S-xxxx

Size	d1		d2		d3		d4		d5		l1		l2		l3	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0450	45.0	1.772	49.0	1.929	60.0	2.362	52.5	2.067	3.0	0.118	19.0	0.748	7.0	0.276	6.0	0.236
0600	60.0	2.362	65.0	2.559	79.0	3.110	68.0	2.677	3.0	0.118	22.0	0.866	9.0	0.354	6.0	0.236
0730	73.0	2.874	78.0	3.071	95.0	3.740	78.0	3.071	3.0	0.118	24.0	0.945	9.0	0.354	6.0	0.236
0850	85.0	3.346	91.0	3.583	107.0	4.213	96.0	3.780	4.0	0.157	27.0	1.063	12.0	0.472	4.0	0.157



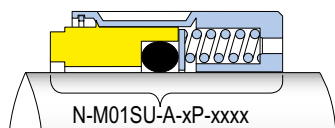
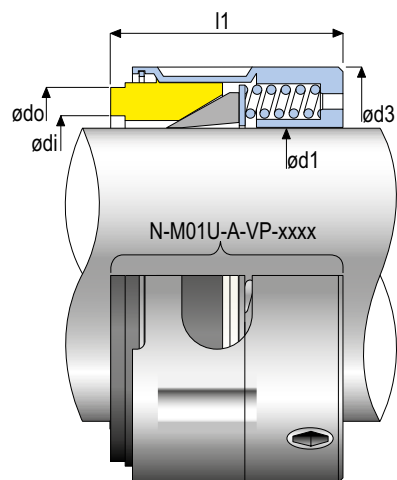
Multi Spring

M01U / M01SU

Stock code: N-M01(S)U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



Size	d1		d3		di		do		L1	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0158	15.8	0.625	30.7	1.209	18.6	0.732	24.8	0.976	19.0	0.748
0190	19.0	0.748	34.7	1.366	21.8	0.858	28.8	1.134	22.2	0.875
0191	19.1	0.750	34.7	1.366	21.8	0.858	28.8	1.134	22.2	0.875
0200	20.0	0.787	35.7	1.405	22.4	0.882	29.8	1.173	24.0	0.945
0220	22.0	0.866	37.0	1.457	24.3	0.957	30.6	1.205	24.0	0.945
0222	22.2	0.875	38.0	1.496	24.3	0.957	30.2	1.189	23.8	0.937
0240	24.0	0.945	39.7	1.563	26.1	1.028	33.8	1.331	25.0	0.984
0250	25.0	0.984	40.8	1.606	27.7	1.091	34.9	1.374	25.0	0.984
0254	25.4	1.000	41.0	1.614	28.3	1.114	35.1	1.382	25.4	1.000
0280	28.0	1.102	44.5	1.752	31.2	1.228	38.0	1.496	27.0	1.063
0286	28.6	1.125	44.0	1.732	31.2	1.228	37.5	1.476	27.0	1.063
0300	30.0	1.181	47.5	1.870	33.8	1.331	41.0	1.614	27.0	1.063
0317	31.7	1.250	49.0	1.929	34.1	1.343	42.5	1.673	27.0	1.063
0320	32.0	1.260	50.7	1.996	35.6	1.402	44.2	1.740	29.0	1.142
0349	34.9	1.375	52.0	2.047	37.4	1.472	45.5	1.791	28.6	1.126
0350	35.0	1.378	52.0	2.047	37.4	1.472	45.5	1.791	29.0	1.142
0380	38.0	1.496	54.6	2.150	40.7	1.602	49.1	1.933	29.0	1.142
0381	38.1	1.500	55.6	2.189	40.7	1.602	49.1	1.933	28.6	1.125
0400	40.0	1.575	59.9	2.358	43.8	1.724	53.4	2.102	35.0	1.378
0412	41.2	1.625	61.0	2.402	43.5	1.713	54.5	2.146	35.0	1.378
0444	44.4	1.750	64.3	2.531	46.8	1.843	57.8	2.276	35.0	1.378
0450	45.0	1.772	64.9	2.555	47.2	1.858	58.4	2.299	35.0	1.378
0476	47.6	1.875	65.1	2.563	50.0	1.969	58.6	2.307	35.0	1.378
0480	48.0	1.890	65.1	2.563	50.0	1.969	58.6	2.307	35.0	1.378
0500	50.0	1.969	69.9	2.752	53.4	2.102	63.4	2.496	35.0	1.378
0508	50.8	2.000	70.7	2.783	53.0	2.087	64.2	2.528	35.0	1.378
0539	53.9	2.125	77.0	3.031	56.5	2.224	66.8	2.630	43.0	1.693
0550	55.0	2.165	78.2	3.079	57.4	2.260	69.2	2.724	43.0	1.693
0571	57.1	2.250	80.1	3.153	59.5	2.343	71.5	2.815	43.0	1.693
0600	60.0	2.362	83.1	3.272	62.4	2.457	74.0	2.913	43.0	1.693
0603	60.3	2.375	83.1	3.272	63.1	2.484	74.3	2.925	43.0	1.693
0635	63.5	2.500	86.6	3.409	66.0	2.598	77.5	3.051	43.0	1.693
0650	65.0	2.559	87.9	3.461	67.3	2.650	79.3	3.122	43.0	1.693
0666	66.6	2.625	89.6	3.527	69.7	2.744	81.0	3.189	43.0	1.693
0698	69.8	2.750	92.8	3.653	73.4	2.890	83.8	3.299	43.0	1.693
0700	70.0	2.756	92.8	3.653	73.4	2.890	83.8	3.299	43.0	1.693
0730	73.0	2.875	95.9	3.776	76.0	2.992	87.2	3.433	43.0	1.693
0750	75.0	2.953	96.2	3.787	78.1	3.075	87.6	3.449	43.0	1.693
0762	76.2	3.000	97.7	3.846	79.0	3.110	88.9	3.500	43.0	1.693
0794	79.4	3.125	100.7	3.964	82.3	3.240	92.0	3.622	43.0	1.693
0800	80.0	3.150	101.2	3.984	83.0	3.268	92.7	3.650	43.0	1.693
0826	82.6	3.250	105.5	4.153	86.6	3.409	95.6	3.764	43.0	1.693
0850	85.0	3.346	107.7	4.240	88.3	3.476	97.9	3.854	43.0	1.693
0857	85.7	3.375	108.7	4.279	88.8	3.496	98.5	3.878	43.0	1.693
0889	88.9	3.500	112.0	4.409	92.0	3.622	101.5	3.996	43.0	1.693
0900	90.0	3.543	112.8	4.441	93.1	3.665	102.7	4.043	43.0	1.693
0920	92.0	3.625	115.9	4.563	95.2	3.748	104.8	4.126	43.0	1.693
0950	95.0	3.740	117.7	4.634	98.3	3.870	107.9	4.248	43.0	1.693
0952	95.2	3.750	118.2	4.653	98.3	3.870	107.9	4.248	43.0	1.693
0984	98.4	3.875	121.3	4.775	101.5	3.996	111.2	4.378	43.0	1.693
1000	100.0	3.937	122.7	4.831	103.1	4.059	112.8	4.441	43.0	1.693
1016	101.6	4.000	124.6	4.905	104.7	4.122	114.4	4.504	43.0	1.693

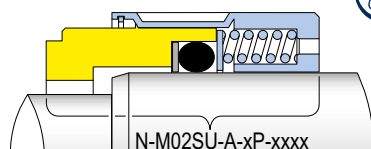
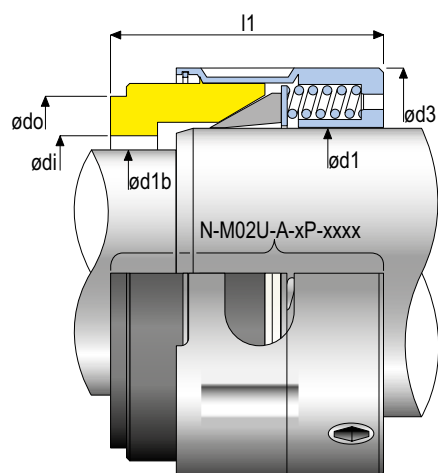


M02U / M02SU

Stock code: N-M02(S)U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



Size	d1		d1b		d3		di		do		l1	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0191	19.1	0.750	15.8	0.625	34.7	1.366	17.8	0.701	25.3	0.996	30.0	1.181
0222	22.2	0.875	19.1	0.750	38.0	1.496	21.0	0.827	27.4	1.079	32.0	1.260
0254	25.4	1.000	22.2	0.875	41.0	1.614	24.2	0.953	31.6	1.244	33.0	1.312
0286	28.6	1.125	25.4	1.000	44.0	1.732	27.4	1.079	34.8	1.370	35.0	1.375
0317	31.7	1.250	28.6	1.125	49.0	1.929	30.6	1.205	40.6	1.598	35.0	1.375
0349	34.9	1.375	28.6	1.125	52.0	2.047	32.3	1.272	42.6	1.677	37.0	1.437
0381	38.1	1.500	31.7	1.250	55.6	2.189	35.6	1.402	45.4	1.787	37.0	1.437
0412	41.2	1.625	34.9	1.375	61.0	2.401	38.0	1.496	50.3	1.980	45.0	1.750
0444	44.4	1.750	38.1	1.500	64.3	2.531	41.4	1.630	53.3	2.098	45.0	1.750
0476	47.6	1.875	41.2	1.625	65.1	2.563	44.7	1.760	56.2	2.213	45.0	1.750
0508	50.8	2.000	44.4	1.750	70.7	2.783	47.8	1.882	59.9	2.358	45.0	1.750
0539	53.9	2.125	47.6	1.875	77.0	3.031	51.1	2.012	62.3	2.453	52.3	2.062
0571	57.1	2.250	50.8	2.000	80.1	3.153	53.8	2.118	66.9	2.634	52.3	2.062
0603	60.3	2.375	53.9	2.125	83.1	3.272	57.3	2.256	69.4	2.732	52.3	2.062
0635	63.5	2.500	57.1	2.250	86.6	3.409	60.4	2.378	72.8	2.866	52.3	2.062
0666	66.6	2.625	60.3	2.375	89.6	3.527	63.6	2.504	75.8	2.984	52.3	2.062
0698	69.8	2.750	63.5	2.500	92.8	3.653	67.1	2.642	78.3	3.083	52.3	2.062
0730	73.0	2.875	66.6	2.625	95.9	3.776	70.1	2.760	82.1	3.232	52.3	2.062
0762	76.2	3.000	69.8	2.750	97.7	3.846	73.7	2.902	84.2	3.315	52.3	2.062
0794	79.4	3.125	73.0	2.875	100.7	3.964	76.8	3.024	87.2	3.433	52.3	2.062
0826	82.6	3.250	76.2	3.000	105.5	4.153	80.2	3.157	89.8	3.535	52.3	2.062
0857	85.7	3.375	79.3	3.125	108.7	4.279	83.2	3.276	93.5	3.681	52.3	2.062
0889	88.9	3.500	82.5	3.250	112.0	4.409	86.5	3.406	96.5	3.799	52.3	2.062
0920	92.0	3.625	85.7	3.375	115.9	4.563	89.7	3.531	99.8	3.929	52.3	2.062
0952	95.2	3.750	88.9	3.500	118.2	4.653	92.8	3.654	102.9	4.051	52.3	2.062
0984	98.4	3.875	92.0	3.625	121.3	4.775	96.0	3.780	106.1	4.177	52.3	2.062
1016	101.6	4.000	95.2	3.750	124.6	4.905	99.2	3.906	109.4	4.307	52.3	2.062



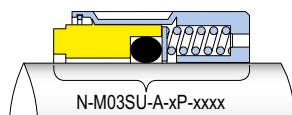
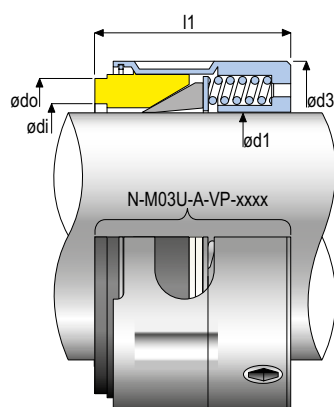
Multi Spring

M03U / M03SU

Stock code: N-M03(S)U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



Size	d1		d3		di		do		l1	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	34.2	1.346	22.3	0.878	28.3	1.114	24.0	0.945
0220	22.0	0.866	36.5	1.437	24.2	0.953	30.6	1.205	24.0	0.945
0240	24.0	0.945	37.8	1.488	27.2	1.071	31.9	1.256	26.7	1.051
0250	25.0	0.984	39.5	1.555	28.0	1.102	33.6	1.323	27.0	1.063
0280	28.0	1.102	42.5	1.673	31.0	1.220	36.6	1.441	30.0	1.181
0300	30.0	1.181	44.5	1.752	33.0	1.299	38.6	1.520	30.5	1.201
0320	32.0	1.260	46.5	1.831	35.1	1.382	40.6	1.598	30.5	1.201
0330	33.0	1.299	47.5	1.870	36.0	1.417	41.6	1.638	30.5	1.201
0350	35.0	1.378	49.5	1.949	38.0	1.496	43.6	1.717	30.5	1.201
0380	38.0	1.496	55.0	2.165	41.0	1.614	46.5	1.831	32.0	1.260
0400	40.0	1.575	57.0	2.244	43.1	1.697	49.3	1.941	32.0	1.260
0430	43.0	1.693	60.0	2.362	46.1	1.815	52.1	2.051	32.0	1.260
0450	45.0	1.772	62.0	2.441	47.2	1.858	54.2	2.134	32.0	1.260
0480	48.0	1.890	65.0	2.559	51.0	2.008	57.5	2.264	32.0	1.260
0500	50.0	1.969	66.3	2.610	53.0	2.087	59.5	2.343	34.0	1.339
0530	53.0	2.087	68.7	2.705	56.0	2.205	62.5	2.461	34.0	1.339
0550	55.0	2.165	70.8	2.787	58.2	2.291	64.4	2.535	34.0	1.339
0580	58.0	2.283	78.5	3.091	61.2	2.409	68.7	2.705	39.0	1.535
0600	60.0	2.362	79.8	3.142	63.2	2.488	71.5	2.815	39.0	1.535
0630	63.0	2.480	82.8	3.260	66.1	2.602	73.9	2.909	39.0	1.535
0650	65.0	2.559	85.5	3.366	68.0	2.677	75.5	2.972	39.0	1.535
0680	68.0	2.677	87.8	3.457	71.0	2.795	78.5	3.091	39.0	1.535
0700	70.0	2.756	90.5	3.563	73.1	2.878	80.5	3.169	45.5	1.791
0750	75.0	2.953	95.2	3.748	78.1	3.075	87.0	3.425	45.5	1.791
0800	80.0	3.150	103.8	4.087	82.5	3.248	90.7	3.571	45.0	1.772
0850	85.0	3.346	109.1	4.295	88.0	3.465	96.0	3.780	45.0	1.772
0900	90.0	3.543	113.8	4.480	93.0	3.661	101.0	3.976	50.0	1.969
0950	95.0	3.740	118.5	4.665	98.2	3.866	106.2	4.181	50.0	1.969
1000	100.0	3.937	123.5	4.862	103.0	4.055	111.6	4.394	50.0	1.969

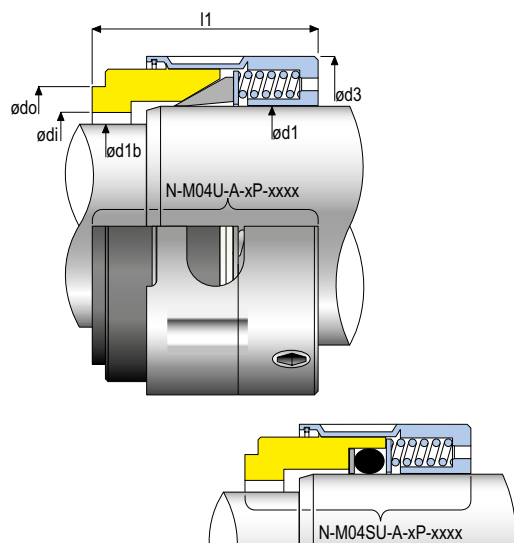


M04U / M04SU

Stock code: N-M04(S)U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



Size	d1		d1b		d3		di		do		L1	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	16.0	0.630	34.2	1.346	18.2	0.717	25.1	0.988	30.5	1.201
0220	22.0	0.866	18.0	0.709	36.5	1.437	20.3	0.798	27.0	1.064	31.5	1.240
0240	24.0	0.945	20.0	0.787	37.8	1.488	22.6	0.891	28.1	1.108	31.5	1.240
0280	28.0	1.102	24.0	0.945	42.5	1.673	26.2	1.033	33.2	1.308	34.2	1.346
0300	30.0	1.181	25.0	0.984	44.5	1.752	28.3	1.113	35.2	1.385	34.2	1.346
0330	33.0	1.299	28.0	1.102	47.5	1.870	31.0	1.219	39.0	1.537	37.5	1.476
0350	35.0	1.378	30.0	1.181	49.5	1.949	33.3	1.310	40.2	1.583	38.0	1.496
0380	38.0	1.496	33.0	1.299	55.0	2.165	36.5	1.437	42.6	1.677	38.0	1.496
0400	40.0	1.575	35.0	1.378	57.0	2.244	38.3	1.509	45.2	1.779	38.0	1.496
0430	43.0	1.693	38.0	1.496	60.0	2.362	41.4	1.630	48.0	1.889	39.5	1.555
0450	45.0	1.772	40.0	1.575	62.0	2.441	43.2	1.699	50.7	1.996	39.5	1.555
0480	48.0	1.890	43.0	1.693	65.0	2.559	46.3	1.822	53.4	2.101	39.5	1.555
0500	50.0	1.969	45.0	1.772	66.3	2.610	48.3	1.901	55.3	2.179	39.5	1.555
0530	53.0	2.087	48.0	1.890	68.7	2.705	51.3	2.020	58.3	2.296	39.5	1.555
0550	55.0	2.165	50.0	1.969	70.8	2.787	53.4	2.102	60.1	2.366	44.0	1.732
0580	58.0	2.283	53.0	2.087	78.5	3.091	56.0	2.206	64.1	2.525	44.0	1.732
0600	60.0	2.362	55.0	2.165	79.8	3.142	57.8	2.276	66.8	2.631	44.0	1.732
0630	63.0	2.480	58.0	2.283	82.8	3.260	61.0	2.400	69.4	2.730	49.0	1.929
0650	65.0	2.559	60.0	2.362	85.5	3.366	63.1	2.483	71.1	2.799	49.0	1.929
0680	68.0	2.677	63.0	2.480	87.8	3.457	66.0	2.598	74.0	2.913	49.0	1.929
0700	70.0	2.756	65.0	2.559	90.5	3.563	68.1	2.681	76.0	2.992	49.0	1.929
0750	75.0	2.953	70.0	2.756	95.2	3.748	72.7	2.863	82.2	3.236	55.5	2.185
0800	80.0	3.150	75.0	2.953	103.8	4.087	77.9	3.068	86.6	3.408	55.5	2.185
0850	85.0	3.346	80.0	3.150	109.1	4.295	83.0	3.268	91.5	3.602	55.5	2.185
0900	90.0	3.543	85.0	3.346	113.8	4.480	88.0	3.465	96.5	3.799	60.0	2.362
0950	95.0	3.740	90.0	3.543	118.5	4.665	93.0	3.659	101.6	3.998	60.0	2.362
1000	100.0	3.937	95.0	3.740	123.5	4.862	97.8	3.850	106.5	4.193	60.0	2.362



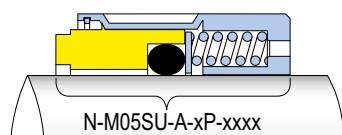
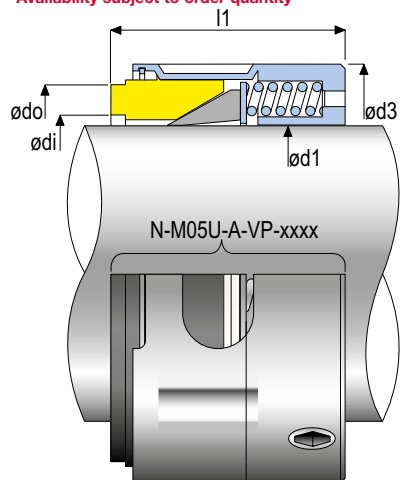
Multi Spring

M05U / M05SU

Stock code: N-M05(S)U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



Size	d1		d3		di		do		l1	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0191	19.1	0.750	30.2	1.190	20.1	0.789	25.7	1.012	23.8	0.937
0222	22.2	0.875	33.4	1.315	23.2	0.914	28.9	1.138	23.8	0.937
0254	25.4	1.000	36.6	1.440	26.4	1.039	32.1	1.264	25.4	1.000
0286	28.6	1.125	39.8	1.565	29.6	1.164	35.3	1.390	25.4	1.000
0317	31.7	1.250	42.9	1.690	32.8	1.289	38.4	1.512	25.4	1.000
0349	34.9	1.375	49.3	1.940	36.7	1.445	44.8	1.764	34.9	1.375
0381	38.1	1.500	49.3	1.940	40.3	1.587	44.8	1.764	28.6	1.125
0412	41.2	1.625	57.2	2.250	44.0	1.732	52.7	2.075	29.4	1.156
0444	44.4	1.750	58.8	2.315	46.0	1.811	52.3	2.059	34.9	1.375
0476	47.6	1.875	63.5	2.500	48.2	1.898	57.0	2.244	34.9	1.375
0508	50.8	2.000	66.7	2.625	52.2	2.055	60.2	2.370	34.9	1.375
0539	53.9	2.125	71.5	2.815	56.4	2.220	65.0	2.559	42.8	1.687
0571	57.1	2.250	72.3	2.845	58.5	2.303	65.8	2.591	34.9	1.375
0603	60.3	2.375	76.4	3.000	62.7	2.467	69.9	2.752	42.8	1.687
0635	63.5	2.500	79.4	3.125	65.0	2.559	72.9	2.870	34.9	1.375
0666	66.6	2.625	82.6	3.250	68.5	2.697	76.1	2.996	42.8	1.687
0698	69.8	2.750	85.7	3.375	71.5	2.815	79.2	3.118	42.8	1.687
0730	73.0	2.875	88.9	3.500	74.5	2.933	82.4	3.244	42.8	1.687
0762	76.2	3.000	92.1	3.625	77.8	3.061	85.6	3.370	42.8	1.687
0794	79.4	3.125	95.3	3.750	81.8	3.220	88.8	3.496	42.8	1.687
0826	82.6	3.250	98.4	3.875	85.0	3.346	91.9	3.618	42.8	1.687
0857	85.7	3.375	101.6	4.000	88.0	3.465	95.1	3.744	42.8	1.687
0889	88.9	3.500	104.8	4.125	91.5	3.602	98.3	3.870	42.8	1.687
0920	92.0	3.625	108.0	4.250	95.0	3.740	101.5	3.996	42.8	1.687
0952	95.2	3.750	111.1	4.375	98.0	3.858	104.6	4.118	42.8	1.687
0984	98.4	3.875	114.3	4.500	101.3	3.988	107.8	4.244	42.8	1.687
1016	101.6	4.000	117.5	4.625	104.0	4.094	111.0	4.370	42.8	1.687

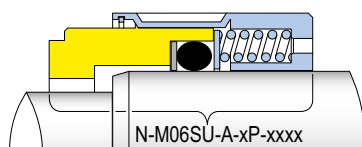
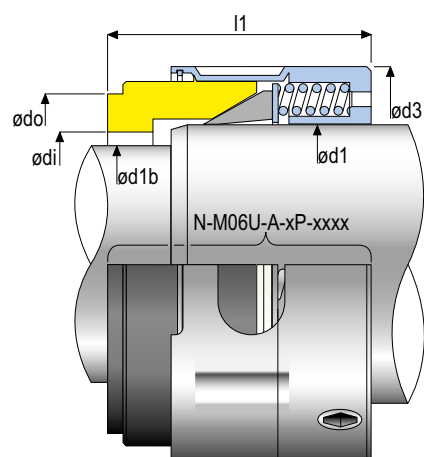


M06U / M06SU

Stock code: N-M06(S)U-xxxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	-	V - PTFE or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	P

*Availability subject to order quantity



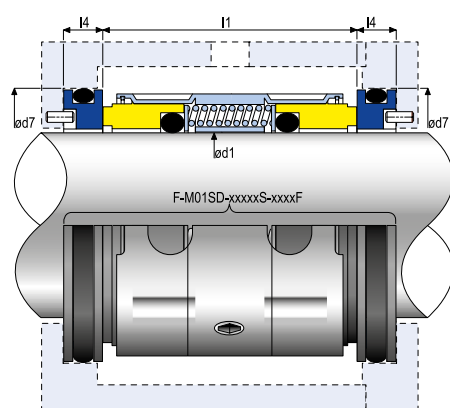
	d1		d1b		d3		di		do		l1	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0191	19.1	0.750	15.8	0.625	30.2	1.190	17.8	0.701	22.8	0.898	31.7	1.250
0222	22.2	0.875	19.1	0.750	33.4	1.315	21.1	0.831	26.1	1.028	31.7	1.250
0254	25.4	1.000	22.2	0.875	36.6	1.440	24.1	0.949	29.1	1.146	33.3	1.312
0286	28.6	1.125	25.4	1.000	39.8	1.565	27.4	1.079	33.4	1.315	34.9	1.375
0317	31.7	1.250	28.5	1.125	42.9	1.690	30.8	1.211	36.5	1.437	34.9	1.375
0349	34.9	1.375	28.6	1.125	49.3	1.940	32.5	1.280	40.0	1.575	42.8	1.687
0381	38.1	1.500	31.7	1.250	49.3	1.940	36.4	1.433	41.4	1.630	36.4	1.437
0412	41.2	1.625	34.9	1.375	57.2	2.250	38.9	1.531	46.9	1.846	40.4	1.593
0444	44.4	1.750	38.1	1.500	58.8	2.315	42.1	1.657	48.1	1.894	44.4	1.750
0476	47.6	1.875	41.2	1.625	63.5	2.500	45.1	1.776	54.1	2.130	44.4	1.750
0508	50.8	2.000	44.4	1.750	66.7	2.625	48.4	1.906	56.4	2.220	44.4	1.750
0539	53.9	2.125	47.6	1.875	71.5	2.815	51.6	2.031	59.6	2.346	52.3	2.062
0571	57.1	2.250	50.8	2.000	72.3	2.845	54.8	2.157	62.3	2.453	44.4	1.750
0603	60.3	2.375	53.9	2.125	76.2	3.000	57.9	2.280	65.4	2.575	52.3	2.062
0635	63.5	2.500	57.1	2.250	79.4	3.125	61.1	2.406	68.6	2.701	44.4	1.750
0666	66.6	2.625	60.3	2.375	82.6	3.250	64.3	2.531	71.8	2.827	52.3	2.062
0698	69.8	2.750	63.5	2.500	85.7	3.375	67.5	2.657	75.5	2.972	52.3	2.062
0730	73.0	2.875	66.6	2.625	88.9	3.500	70.6	2.780	78.6	3.094	52.3	2.062
0762	76.2	3.000	69.8	2.750	92.1	3.625	73.8	2.906	81.8	3.220	52.3	2.062
0794	79.4	3.125	73.0	2.875	95.3	3.750	77.0	3.031	85.0	3.346	52.3	2.062
0826	82.6	3.250	76.2	3.000	98.4	3.875	80.2	3.157	88.2	3.472	52.3	2.062
0857	85.7	3.375	79.3	3.125	101.6	4.000	83.3	3.280	91.3	3.594	52.3	2.062
0889	88.9	3.500	82.5	3.250	104.8	4.125	86.5	3.406	94.5	3.720	52.3	2.062
0920	92.0	3.625	85.7	3.375	108.0	4.250	89.7	3.531	97.7	3.846	52.3	2.062
0952	95.2	3.750	88.9	3.500	111.1	4.375	92.9	3.657	100.9	3.972	52.3	2.062
0984	98.4	3.875	92.0	3.625	114.3	4.500	96.0	3.780	104.0	4.094	52.3	2.062
1016	101.6	4.000	95.2	3.750	117.5	4.625	99.2	3.906	107.2	4.220	52.3	2.062

Multi Spring

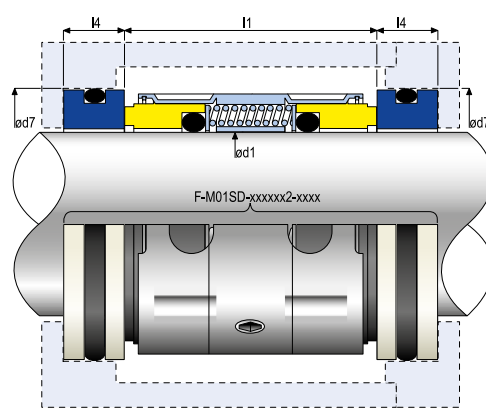
M01SD

Stock code: F-M01SD-xxxxxx-xxxx

Rotary Face	Stationary Face	Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d7		l1		l4	
							Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	A - Carbon	D - Silicon Carbide (RB)	T - Perfluorelastomer or Z - Viton (FPM)	S	0349F	34.9	1.375	50.8	2.000	47.6	1.875	11.1	0.437
						0539F	53.9	2.125	73.0	2.875	66.6	2.625	7.9	0.312
						0286	28.6	1.125	44.4	1.750	38.4	1.512	11.1	0.437
						0381	38.1	1.500	53.9	2.125	46.0	1.811	11.1	0.437

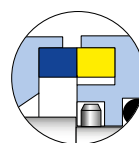


Fybroc Seal

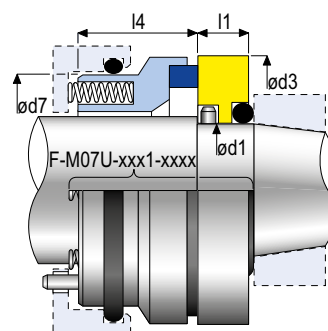


Tri-Clover seal

M07U



Inserted rotary for Silicon and Tungsten face materials



Monolithic rotary for Stainless Steel

Stock code: F-M07U-xxxx-xxxx

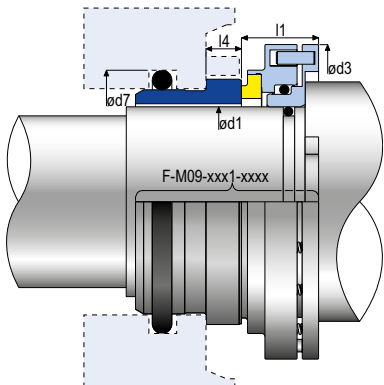
Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1	0158	15.8	0.625	44.5	1.752	36.1	1.421	10.5	0.413	24.0	0.945
				0254	25.4	1.000	53.5	2.106	44.0	1.732	10.0	0.394	24.0	0.945
				0381	38.1	1.500	74.0	2.913	64.0	2.520	15.5	0.610	28.0	1.102



M09



Stock code: F-M09-xxxx-xxxx



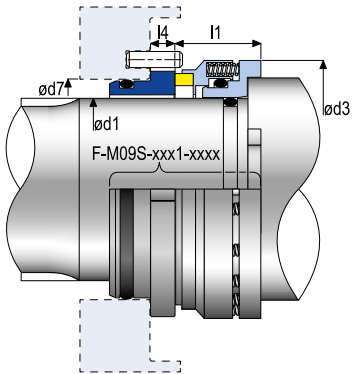
Rotary Face	Stationary Face	Elastomer	Build Code		d1		d3		d7		I1		I4	
				Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
G - Tungsten Carbide	G - Tungsten Carbide	Y - EPR (EPDM) or Z - Viton (FPM)	1	0381	38.1	1.500	80.6	3.175	53.6	2.110	11.6	0.457	3.0	0.118
				0476	47.6	1.875	79.0	3.110	66.1	2.602	19.4	0.763	8.9	0.350



M09S



Stock code: F-M09S-xxxx-0698



Rotary Face	Stationary Face	Elastomer	Build Code											
G - Tungsten Carbide	G - Tungsten Carbide	Y - EPR (EPDM) or Z - Viton (FPM)	1		d1		d3		d7		I1		I4	
				Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
				0698	69.8	2.750	93.4	3.675	83.3	3.280	24.0	0.945	5.1	0.201

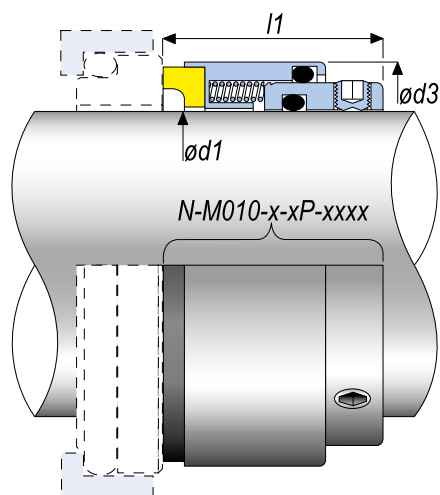


Multi Spring

M010

Stock code: N-M010-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide	-	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	P



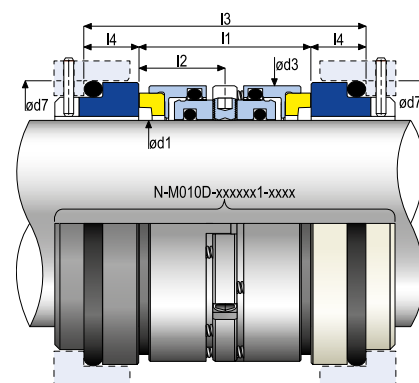
Size	d1		d3		l1	
	Metric	Imperial	Metric	Imperial	Metric	Imperial
0180	18.0	0.709	32.0	1.260	27.9	1.098
0200	20.0	0.787	34.0	1.338	27.9	1.098
0220	22.0	0.866	36.0	1.417	27.9	1.098
0240	24.0	0.945	38.0	1.496	29.9	1.177
0250	25.0	0.984	39.0	1.535	29.9	1.177
0280	28.0	1.102	42.0	1.653	32.4	1.276
0300	30.0	1.181	44.0	1.732	32.4	1.276
0320	32.0	1.260	46.0	1.811	32.4	1.276
0330	33.0	1.299	47.0	1.850	32.4	1.276
0350	35.0	1.378	49.0	1.929	32.4	1.276
0380	38.0	1.496	52.7	2.075	33.9	1.335
0400	40.0	1.575	55.9	2.200	33.9	1.335
0430	43.0	1.693	59.1	2.325	33.9	1.335
0450	45.0	1.772	59.6	2.347	33.9	1.335
0480	48.0	1.890	62.2	2.450	33.9	1.335
0500	50.0	1.969	65.4	2.575	34.4	1.354
0530	53.0	2.087	68.6	2.700	34.4	1.354
0550	55.0	2.165	70.1	2.760	34.4	1.354
0580	58.0	2.283	74.9	2.950	38.9	1.531
0600	60.0	2.362	74.9	2.950	38.9	1.531
0630	63.0	2.480	78.1	3.075	38.9	1.531
0650	65.0	2.559	84.2	3.314	38.9	1.531
0680	68.0	2.677	87.4	3.439	37.4	1.472
0700	70.0	2.756	87.4	3.439	44.9	1.768
0750	75.0	2.953	93.7	3.689	44.9	1.768
0800	80.0	3.150	100.1	3.939	44.2	1.740
0850	85.0	3.346	103.2	4.064	44.2	1.740
0900	90.0	3.543	109.6	4.314	49.2	1.937
0950	95.0	3.740	112.8	4.439	49.2	1.937
1000	100.0	3.937	119.1	4.689	49.2	1.937



M010D



Stock code: N-M010D-XXXXXX-XXXX
(Size)



Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB)	B - Alumina Ceramic or D - Silicon Carbide (RB)	S - Aflas or U - FEP or Y - EPDM (EPDM) or Z - Viton (FPM)	A - Carbon or D - Silicon Carbide (RB)	B - Alumina Ceramic or D - Silicon Carbide (RB)	S - Aflas or U - FEP or Y - EPDM (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I2		I3		I4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0200	20.0	0.787	35.0	1.378	35.0	1.378	38.0	1.496	19.0	0.748	61.0	2.401	11.5	0.453
0220	22.0	0.866	37.0	1.457	37.0	1.457	38.0	1.496	19.0	0.748	61.0	2.401	11.5	0.453
0240	24.0	0.945	39.0	1.535	39.0	1.535	38.0	1.496	19.0	0.748	61.0	2.401	11.5	0.453
0250	25.0	0.984	40.0	0.157	40.0	1.575	38.0	1.496	19.0	0.748	61.0	2.401	11.5	0.453
0280	28.0	1.102	43.0	1.692	43.0	1.693	39.0	1.535	19.5	0.768	62.0	2.440	11.5	0.453
0300	30.0	1.181	45.0	1.772	45.0	1.772	39.0	1.535	19.5	0.768	62.0	2.440	11.5	0.453
0320	32.0	1.260	47.0	1.850	48.0	1.890	39.0	1.535	19.5	0.768	62.0	2.440	11.5	0.453
0330	33.0	1.299	48.0	1.889	48.0	1.890	39.0	1.535	19.5	0.768	62.0	2.440	11.5	0.453
0350	35.0	1.378	50.0	1.968	50.0	1.969	39.0	1.535	19.5	0.768	62.0	2.440	11.5	0.453
0380	38.0	1.496	55.0	2.165	56.0	2.205	41.0	1.614	20.5	0.807	69.0	2.716	14.0	0.551
0400	40.0	1.575	58.0	2.283	58.0	2.283	42.0	1.654	21.0	0.827	70.0	2.755	14.0	0.551
0430	43.0	1.693	60.0	2.362	61.0	2.402	42.0	1.654	21.0	0.827	70.0	2.755	14.0	0.551
0450	45.0	1.772	62.0	2.441	63.0	2.480	42.0	1.654	21.0	0.827	70.0	2.755	14.0	0.551
0480	48.0	1.890	65.0	2.559	66.0	2.598	42.0	1.654	21.0	0.827	70.0	2.755	14.0	0.551
0500	50.0	1.969	67.0	2.638	70.0	2.756	43.0	1.693	21.5	0.846	73.0	2.874	15.0	0.591
0530	53.0	2.087	70.0	2.756	73.0	2.874	43.0	1.693	21.5	0.846	73.0	2.874	15.0	0.591
0550	55.0	2.165	72.0	2.835	75.0	2.953	43.0	1.693	21.5	0.846	73.0	2.874	15.0	0.591
0580	58.0	2.283	79.0	3.110	78.0	3.071	56.0	2.205	28.0	1.102	86.0	3.386	15.0	0.591
0600	60.0	2.362	81.0	3.189	80.0	3.150	56.0	2.205	28.0	1.102	86.0	3.386	15.0	0.591
0630	63.0	2.480	84.0	3.307	63.0	2.480	55.0	2.165	27.5	1.083	85.0	3.346	15.0	0.591
0650	65.0	2.559	86.0	3.386	85.0	3.346	55.0	2.165	27.5	1.083	85.0	3.346	15.0	0.591
0680	68.0	2.677	89.0	3.504	90.0	3.543	55.0	2.165	27.5	1.083	91.0	3.583	18.0	0.709
0700	70.0	2.756	91.0	3.583	92.0	3.622	56.0	2.205	28.0	1.102	92.0	3.622	18.0	0.709
0750	75.0	2.953	99.0	3.898	97.0	3.819	56.0	2.205	28.0	1.102	92.0	3.622	18.0	0.709
0800	80.0	3.150	104.0	4.094	105.0	4.134	56.0	2.205	28.0	1.102	92.5	3.642	18.2	0.717
0850	85.0	3.346	109.0	4.291	110.0	4.331	56.0	2.205	28.0	1.102	92.5	3.642	18.2	0.717
0900	90.0	3.543	114.0	4.488	115.0	4.528	56.0	2.205	28.0	1.102	92.5	3.642	18.2	0.717
0950	95.0	3.740	119.0	4.685	120.0	4.724	56.0	2.205	28.0	1.102	90.5	3.563	17.2	0.677
1000	100.0	3.937	124.0	4.882	125.0	4.921	56.0	2.205	28.0	1.102	90.5	3.563	17.2	0.677



Multi Spring

M010H

Stock code: N-M010H-xxxx-xxxx

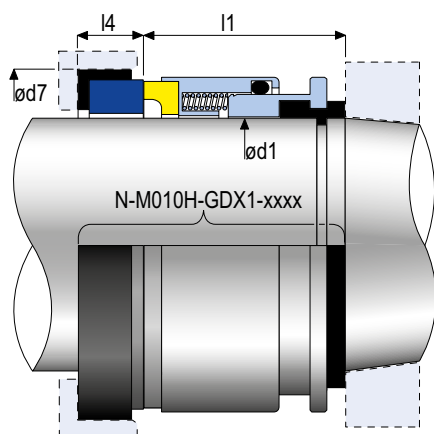


Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide	D - Silicon Carbide (RB)* or F - Ni-Resist^	X - Nitrile (BUNA) or Z - Viton (FPM)	1

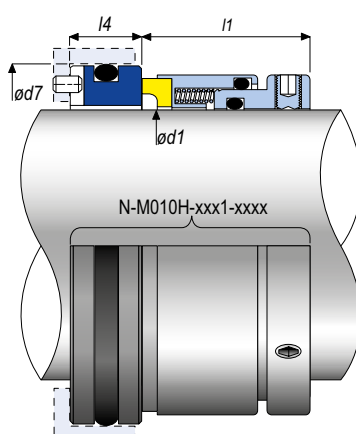
* Not available for 120mm size

^ Available only for 120mm size

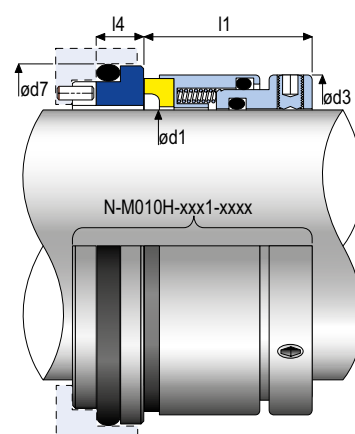
Size	d1		d3		d7		l1		l4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0286	28.6	1.125	-	-	44.4	1.750	32.6	1.283	10.6	0.417
0381	38.1	1.500	-	-	53.9	2.125	34.7	1.366	11.1	0.437
0508	50.8	2.000	-	-	69.8	2.750	45.3	1.783	12.7	0.500
0950	95.0	3.740	112.8	4.439	123.8	4.875	49.2	1.937	17.4	0.685
1000	100.0	3.937	119.1	4.689	123.8	4.875	49.2	1.937	17.4	0.685
1150	115.0	4.527	134.9	5.312	142.9	5.625	36.5	1.437	12.5	0.492
1200	120.0	4.724	141.3	5.563	142.9	5.625	36.5	1.437	12.5	0.492



0286
0381
0508
(Size)



0950
1000
(Size)

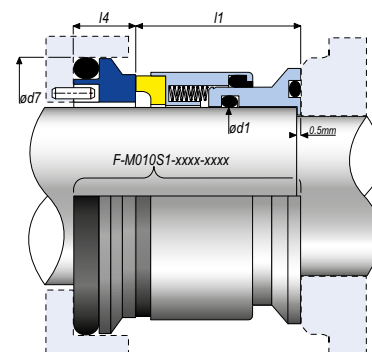


1150
1200
(Size)

M010S1



Stock code: F-M010S1-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPR (EPDM) or Z - Viton (FPM)	1

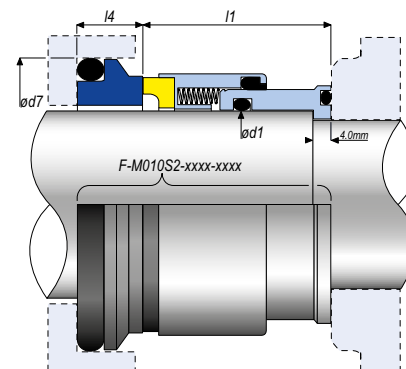
Size	d1		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0280	28.0	1.102	48.0	1.89	34.5	1.359	10.6	0.417
0380	38.0	1.496	57.1	2.25	35.0	1.375	10.6	0.417



M010S2



Stock code: F-M010S2-xxxx-0280



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPR (EPDM)	1

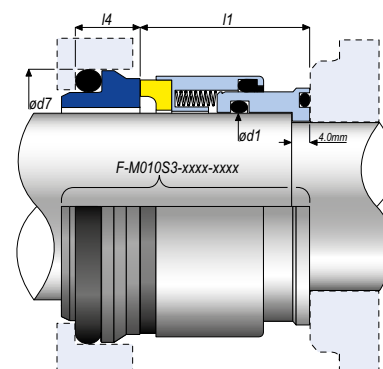
Size	d1		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0280	28.0	1.102	48.0	1.890	38.0	1.496	10.6	0.417



M010S3



Stock code: F-M010S3-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	30.9	1.217	29.0	1.142	8.0	0.315
0280	28.0	1.102	43.3	1.705	33.0	1.299	9.0	0.354
0380	38.0	1.496	60.5	2.382	43.0	1.693	11.5	0.453

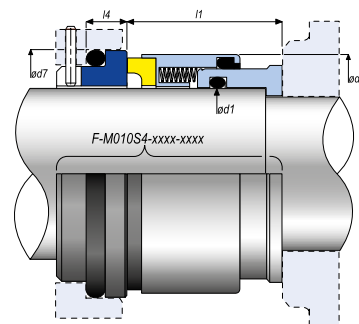


Multi Spring

M010S4



Stock code: F-M010S4-xxxx-xxxx



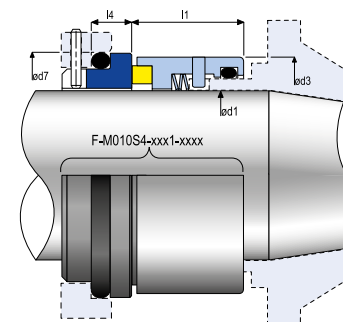
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPDM (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	44.0	1.732	45.0	1.772	32.0	1.260	7.5	0.295
0350	35.0	1.378	49.0	1.929	50.0	1.969	39.9	1.571	7.5	0.295



M010S4 (Type B)

Stock code: F-M010S4-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPDM (EPDM) or Z - Viton (FPM)	1

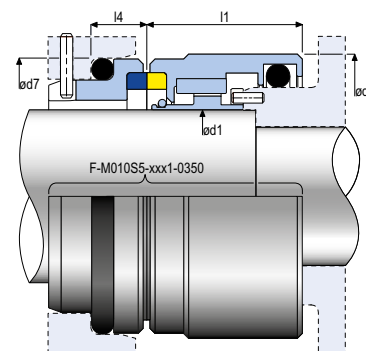
	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	38.8	1.528	40.0	1.575	24.5	0.965	7.0	0.276
0300-B	30.0	1.181	43.7	1.720	45.0	1.772	27.1	1.067	7.6	0.299



M010S5



Stock code: F-M010S5-xxxx-0350



Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	A - Carbon or J - Sintered SiC	Y - EPDM (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0350	35.0	1.378	57.5	2.264	56.0	2.205	31.5	1.240	12.3	0.484



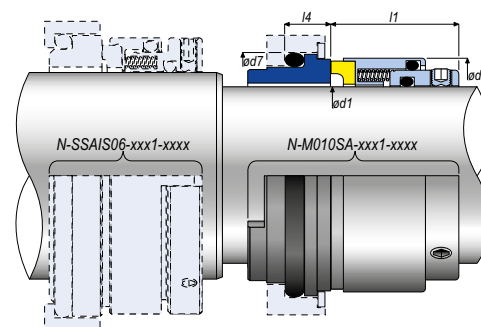
M010SA



Stock code: N-M010SA-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide	D - Silicon Carbide (RB)	Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0250	25.0	0.984	39.0	1.535	38.0	1.496	29.9	1.177	9.6	0.378
0320	32.0	1.260	46.0	1.811	48.0	1.890	32.4	1.276	11.0	0.433
0380	38.0	1.496	54.0	2.126	55.0	2.165	33.9	1.335	11.2	0.441
0500	50.0	1.969	66.0	2.598	69.3	2.728	34.4	1.354	14.0	0.551
0650	65.0	2.559	85.0	3.346	85.4	3.362	38.9	1.531	15.3	0.602
0950	95.0	3.740	114.9	4.524	120.0	4.724	62.8	2.472	17.2	0.677
1100	110.0	4.331	131.5	5.177	140.3	5.524	70.0	2.756	16.5	0.650
1200	120.0	4.724	141.3	5.563	150.3	5.917	36.5	1.437	20.0	0.787



M010X



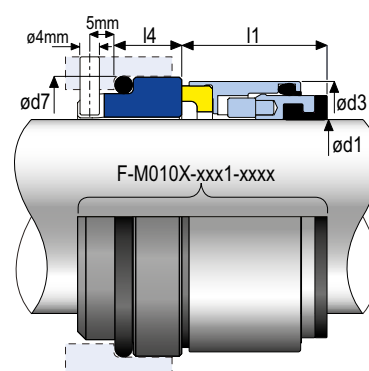
Why upgrade?

- Multi sprung seal technology for improved reliability / performance
- Boot driven rotary aids installation and means that the shaft is not damaged by set screws
- Bug traps are reduced by boot and specially designed O' ring

Stock code: F-M010X-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	J - Sintered SIC	Y - EPR (EPDM)	1

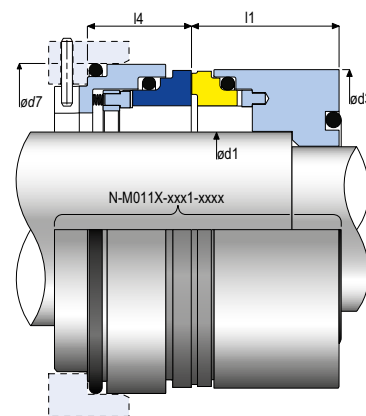
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0400	40.0	1.575	55.8	2.197	58.0	2.283	30.0	1.181	14.0	0.551
0530	53.0	2.087	68.5	2.697	73.0	2.874	33.0	1.299	15.0	0.591



Multi Spring

M011X

Stock code: N-M011X-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	J - Sintered SiC	Z - Viton (FPM)	1

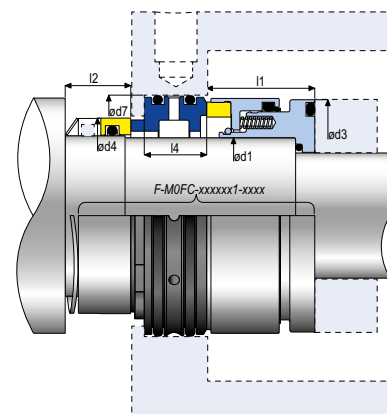
	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0570	57.0	2.244	83.5	3.346	85.0	3.346	42.5	1.673	20.0	0.787



M0FC



Stock code: F-M0FC-xxxxxxx-0375
(Size)



Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code
G - Tungsten Carbide	A - Carbon	Y - EPR (EPDM)	A - Carbon	G - Tungsten Carbide	Y - EPR (EPDM)	1

	d1		d3		d4		d7		I1		I2		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0375	37.5	1.476	56.5	2.224	47.0	1.850	58.0	2.283	26.0	1.024	15.6	0.616	15.2	0.600



M0FCx Range

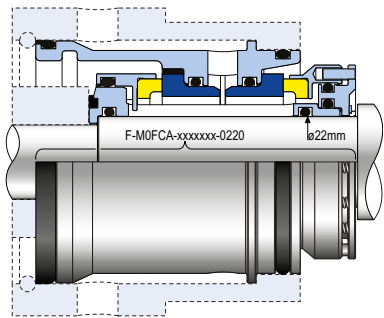
Why upgrade?

- Reduced downtime by improved performance utilizing hydraulically balanced seal design every time
- Plug in Design reduces fitting time and ensures correct installation
- Sterile sealing rings reduce all product side bug traps

Stock code: F-M0FCx-xxxxxx-xxxx
(Size)

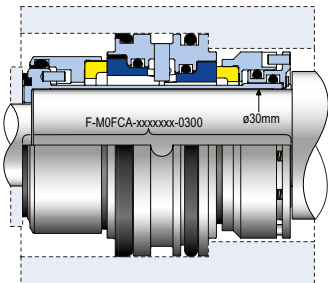
Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB)	G - Tungsten Carbide or J - Sintered SiC	I - AES Elast	G - Tungsten Carbide or J - Sintered SiC	A - Carbon	Y - EPR (EPDM)	S

F-M0FCA



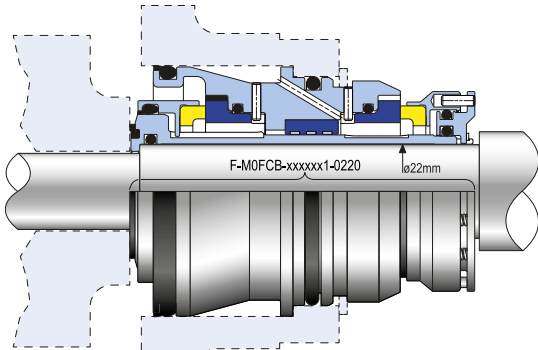
0220
(Size)

F-M0FCA



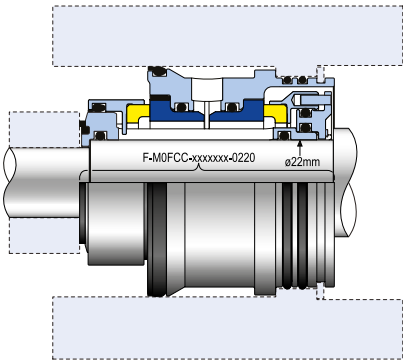
0300/0350
(Size)

F-M0FCB



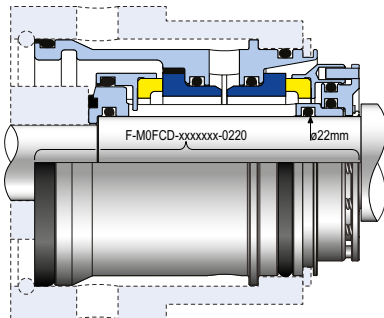
0220
(Size)

F-M0FCC



0220
(Size)

F-M0FCD



0220
(Size)

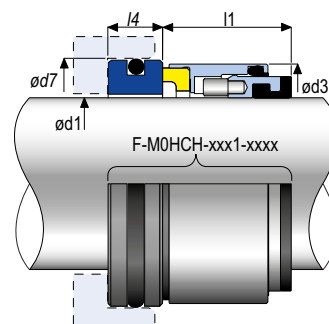


Multi Spring

M0HCH



Stock code: F-M0HCH-xxxx-xxxx



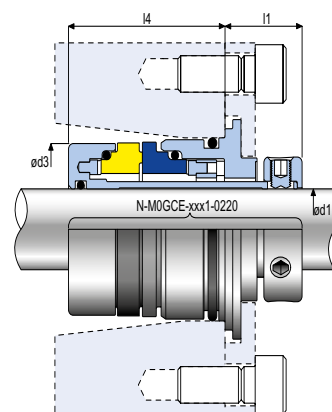
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide	G - Tungsten Carbide or J - Sintered SiC	Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	39.0	1.535	40.5	1.594	27.0	1.063	9.5	0.374
0300	30.0	1.181	44.0	1.732	50.8	2.000	27.0	1.063	11.5	0.453
0350	35.0	1.378	49.0	1.929	53.9	2.122	35.0	1.378	11.5	0.453
0400	40.0	1.575	55.9	2.201	60.3	2.375	35.0	1.375	11.5	0.453
0600	60.0	2.362	85.0	3.346	79.3	3.122	42.0	1.654	15.0	0.591

M0GCE



Stock code: N-M0GCE-xxxx-0220



Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB) or H - Antimony Carbon	D - Silicon Carbide (RB)	S - Aflas or T - Perfluorelastomer or Z - Viton (FPM)	1

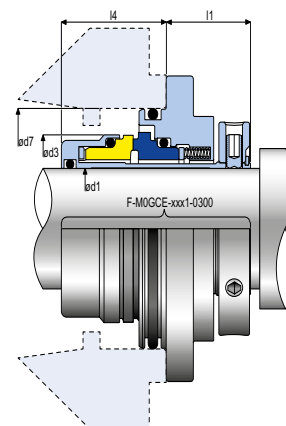
	d1		d3		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0220	22.0	0.866	50.0	1.969	25.0	0.984	51.0	2.008



M0GCE



Stock code: F-M0GCE-xxxx-0300



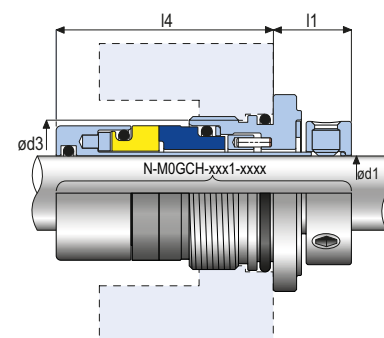
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	D - Silicon Carbide (RB)	I - AES Elast	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	46.8	1.843	60.0	2.362	24.9	0.978	30.9	1.216



M0GCH

Stock code: N-M0GCH-xxxx-xxxx



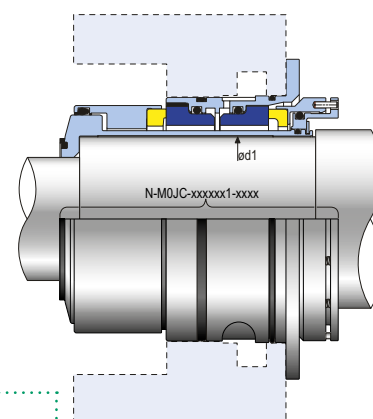
Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	D - Silicon Carbide (RB) or H - Antimony Carbon	Z - Viton (FPM) or Y - EPR (EPDM)	1

	d1		d3		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	29.0	1.142	15.0	0.591	44.6	1.756
0160	16.0	0.630	34.0	1.339	16.0	0.661	46.8	1.843



M0JC

Stock code: F-M0JC-xxxxxx-xxxx



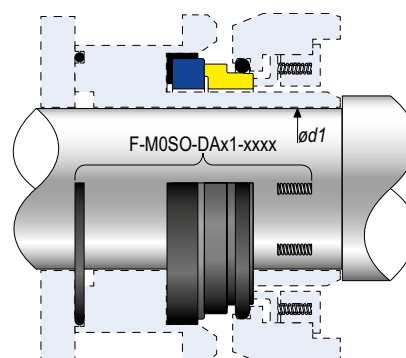
Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or J - Sintered SiC	G - Tungsten Carbide or J - Sintered SiC	I - AES Elast or R - HNBR (HSN) or Z - Viton (FPM)	G - Tungsten Carbide or J - Sintered SiC	A - Carbon	I - AES Elast or S - Aflas or Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1	
Size	Metric	Imperial
0400	40.0	1.575
0550	55.0	2.165



M0SO

Stock code: F-M0SO-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1	
Size	Metric	Inches
0600	60.0	2.362
0650	65.0	2.560



Multi Spring

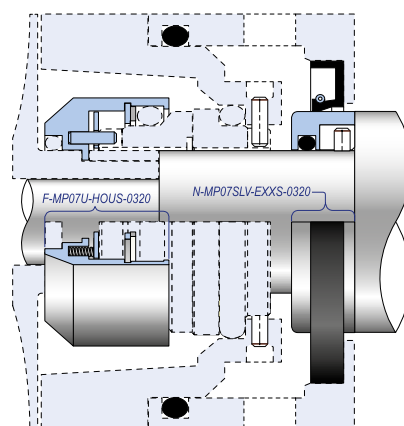
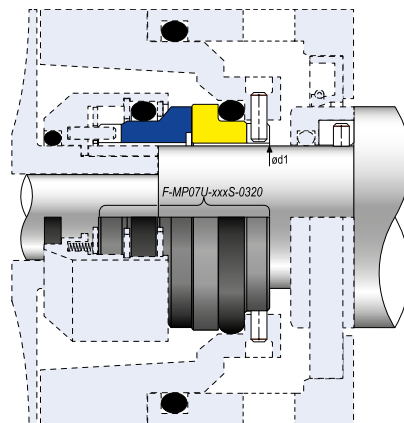
MP07U



Stock code: F-MP07U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	S

Size	d1	
	Metric	Inches
0320	32.0	1.260
0420	42.0	1.654



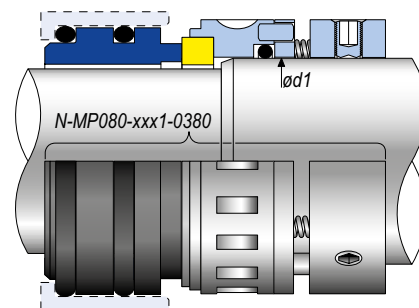
Additional part options available

MP080

Stock code: N-MP080-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide	A - Carbon	Z - Viton (FPM)	1

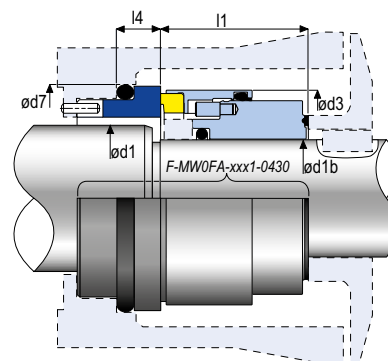
Size	d1	
	Metric	Imperial
0380	38.0	1.496



MWOFA



Stock code: F-MWOFA-xxxx-0430



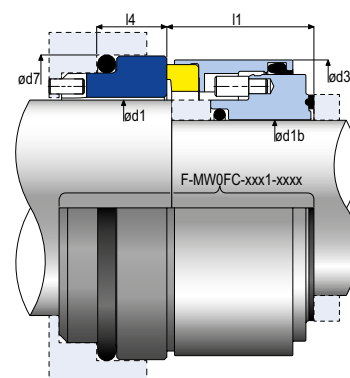
Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d1b		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0430	43.0	1.693	32.0	1.260	59.0	2.323	61.0	2.402	40.00	1.575	14.0	0.551

MW0FC



Stock code: F-MW0FC-xxxx-0430



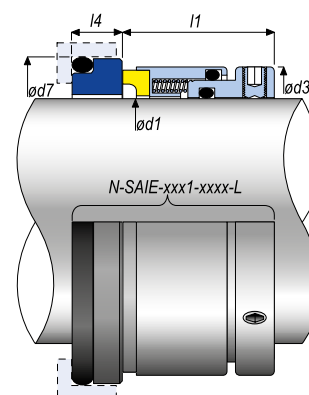
Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	J - Sintered SiC	Y - EPR (EPDM)	1

Size	d1		d1b		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0430	43.0	1.693	35.0	1.378	59.0	2.323	61.0	2.402	28.75	1.132	14.0	0.551



SAIE

Stock code: N-SAIE-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	Y - EPR (EPDM) or Z - Viton (FPM)	1

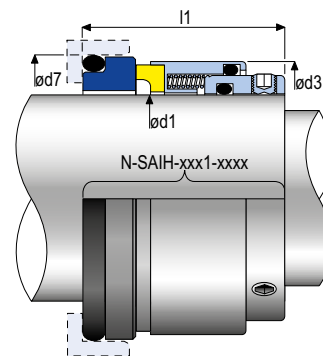
Size	d1		d3		d7		l1		l4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0850-L	85.0	3.346	103.2	4.063	109.0	4.291	44.2	1.740	14.8	0.583
1050-L	105.0	4.134	129.0	5.079	134.3	5.287	36.5	1.437	14.8	0.583



Multi Spring

SAIH

Stock code: N-SAIH-xxxx-xxxx



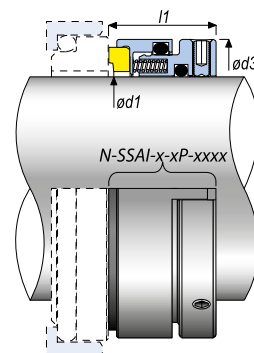
Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB) or G - Tungsten Carbide	D - Silicon Carbide (RB) or G - Tungsten Carbide	Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		Seat Type
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	
0286	28.6	1.125	43.1	1.698	44.4	1.750	38.1	1.500	O Ring Mounted
0381	38.1	1.500	52.7	2.073	53.9	2.125	39.6	1.559	Boot Mounted
0508	50.8	2.000	65.9	2.593	69.8	2.750	46.6	1.835	
0635	63.5	2.500	78.1	3.075	85.7	3.375	48.1	1.894	
0762	76.2	3.000	93.6	3.687	98.4	3.875	52.4	2.063	



SSAI

Stock code: N-SSAI-xxxx-xxxx



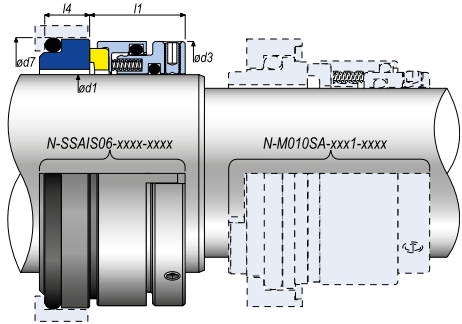
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide	-	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	P

Size	d1		d3		l1	
	Metric	Imperial	Metric	Imperial	Metric	Imperial
0200	20.0	0.787	34.0	1.338	20.0	0.787
0220	22.0	0.866	36.0	1.417	20.0	0.787
0240	24.0	0.945	38.0	1.496	22.0	0.866
0250	25.0	0.984	39.0	1.535	23.0	0.906
0280	28.0	1.102	42.0	1.653	23.0	0.906
0300	30.0	1.181	44.0	1.732	24.0	0.945
0320	32.0	1.260	46.0	1.811	24.0	0.945
0330	33.0	1.299	47.0	1.850	24.0	0.945
0350	35.0	1.378	49.0	1.929	24.0	0.945
0380	38.0	1.496	52.7	2.075	27.0	1.063
0400	40.0	1.575	55.9	2.200	28.0	1.102
0430	43.0	1.693	59.1	2.325	28.0	1.102
0450	45.0	1.772	59.6	2.347	28.0	1.102
0480	48.0	1.890	62.2	2.450	28.0	1.102
0500	50.0	1.969	65.4	2.575	27.0	1.063
0530	53.0	2.087	68.6	2.700	27.0	1.063
0550	55.0	2.165	70.1	2.760	27.0	1.063
0580	58.0	2.283	75.0	2.953	29.0	1.142
0600	60.0	2.362	75.8	2.984	29.0	1.142
0630	63.0	2.480	78.1	3.075	32.0	1.260
0650	65.0	2.559	84.2	3.314	32.0	1.260
0680	68.0	2.677	87.4	3.439	32.0	1.260
0700	70.0	2.756	87.4	3.439	32.0	1.260
0750	75.0	2.953	93.7	3.689	32.0	1.260
0800	80.0	3.150	100.1	3.939	32.0	1.260
0850	85.0	3.346	103.2	4.064	32.0	1.260
0900	90.0	3.543	109.6	4.314	38.0	1.496
0950	95.0	3.740	112.8	4.439	38.0	1.496
1000	100.0	3.937	119.5	4.705	38.0	1.496



SSAIS06

Stock code: N-SSAIS06-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB)	D - Silicon Carbide (RB) or G - Tungsten Carbide	Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0300	30.0	1.181	46.0	1.811	45.0	1.772	24.0	0.945	10.0	0.394
0380	38.0	1.496	58.0	2.283	56.0	2.205	27.0	1.063	11.0	0.433
0500	50.0	1.969	70.0	2.756	70.0	2.756	27.0	1.063	13.0	0.512
0650	65.0	2.559	90.0	3.543	85.0	3.346	32.0	1.260	13.0	0.512



Parallel Spring

P02

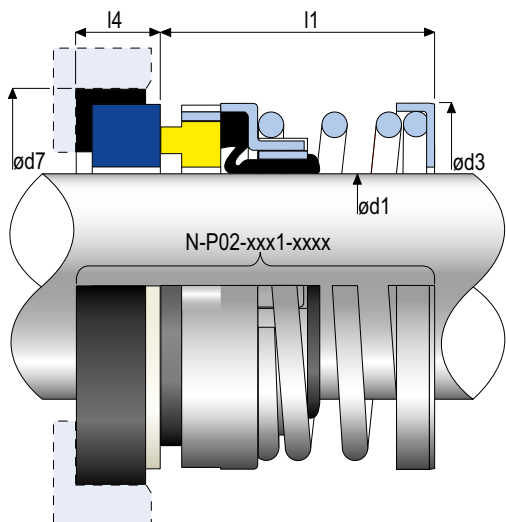


Stock code: N-P02-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB)	B - Alumina Ceramic or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Z - Viton (FPM) or Y - EPR (EPDM)	1 P

[^]Build Code 1 = Complete Seal, P = Rotary Only



Size	d1		d3		d7		L1		L4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0095	9.5	0.375	23.0	0.906	24.6	0.969	25.4	1.000	8.7	0.344
0100	10.0	0.394	23.0	0.906	24.6	0.969	25.4	1.000	8.7	0.344
0120	12.0	0.472	24.0	0.945	27.7	1.094	25.4	1.000	8.7	0.344
0127	12.7	0.500	24.0	0.945	27.7	1.094	25.4	1.000	8.7	0.344
0130	13.0	0.512	24.0	0.945	27.7	1.094	25.4	1.000	8.7	0.344
0140	14.0	0.551	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
0150	15.0	0.591	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
0158	15.8	0.625	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
0160	16.0	0.630	26.7	1.053	30.9	1.219	25.4	1.000	10.3	0.406
0180	18.0	0.709	31.2	1.230	34.1	1.344	25.4	1.000	10.3	0.406
0190	19.0	0.748	31.2	1.230	34.1	1.344	25.4	1.000	10.3	0.406
0191	19.1	0.750	31.2	1.230	34.1	1.344	25.4	1.000	10.3	0.406
0200	20.0	0.787	33.5	1.319	35.7	1.406	25.4	1.000	10.3	0.406
0220	22.0	0.866	33.5	1.319	37.3	1.469	25.4	1.000	10.3	0.406
0222	22.2	0.875	33.5	1.319	37.3	1.469	25.4	1.000	10.3	0.406
0240	24.0	0.945	39.2	1.545	40.5	1.594	25.4	1.000	10.3	0.406
0250	25.0	0.984	39.3	1.547	40.5	1.594	25.4	1.000	10.3	0.406
0254	25.4	1.000	43.2	1.703	40.5	1.594	25.4	1.000	10.3	0.406
0280	28.0	1.102	46.5	1.831	47.6	1.875	33.3	1.313	11.9	0.472
0286	28.6	1.125	46.5	1.831	47.6	1.875	33.3	1.313	11.9	0.472
0300	30.0	1.181	49.5	1.949	50.8	2.000	33.3	1.313	11.9	0.472
0317	31.7	1.250	49.5	1.945	50.8	2.000	33.3	1.313	11.9	0.472
0320	32.0	1.260	49.5	1.949	50.8	2.000	33.3	1.313	11.9	0.472
0330	33.0	1.299	52.7	2.077	53.9	2.125	33.3	1.313	11.9	0.472
0349	34.9	1.375	52.7	2.078	53.9	2.125	33.3	1.313	11.9	0.472
0350	35.0	1.378	52.7	2.077	53.9	2.125	33.3	1.313	11.9	0.472
0380	38.0	1.496	56.0	2.205	57.1	2.250	33.3	1.313	11.9	0.472
0381	38.1	1.500	56.0	2.205	57.1	2.250	33.3	1.313	11.9	0.472
0400	40.0	1.575	62.2	2.451	60.3	2.375	33.3	1.313	11.9	0.472
0412	41.2	1.625	62.2	2.451	60.3	2.375	33.3	1.313	11.9	0.472
0420	42.0	1.654	66.0	2.598	63.5	2.500	40.4	1.594	11.9	0.472
0430	43.0	1.693	66.0	2.598	63.5	2.500	40.4	1.594	11.9	0.472
0440	44.0	1.732	66.0	2.598	63.5	2.500	40.4	1.594	11.9	0.472
0444	44.4	1.750	66.0	2.598	63.5	2.500	40.4	1.594	11.9	0.472
0450	45.0	1.772	66.0	2.598	63.5	2.500	40.4	1.594	11.9	0.472
0476	47.6	1.875	66.0	2.598	66.6	2.625	40.4	1.594	11.9	0.472
0480	48.0	1.890	66.0	2.628	66.6	2.625	40.4	1.594	11.9	0.472
0500	50.0	1.969	71.7	2.825	69.8	2.750	40.4	1.594	13.5	0.531
0508	50.8	2.000	73.0	2.874	69.8	2.750	40.4	1.594	13.5	0.531
0530	53.0	2.087	73.5	2.894	73.0	2.875	41.0	1.614	13.5	0.531
0539	53.9	2.125	73.5	2.894	73.0	2.875	41.0	1.614	13.5	0.531
0550	55.0	2.165	78.5	3.091	76.2	3.000	41.0	1.614	13.5	0.531
0571	57.1	2.250	78.5	3.091	76.2	3.000	41.0	1.614	13.5	0.531
0580	58.0	2.283	82.0	3.228	79.3	3.125	41.0	1.614	13.5	0.531
0600	60.0	2.362	82.0	3.228	79.3	3.125	41.0	1.614	13.5	0.531
0603	60.3	2.375	82.0	3.228	79.3	3.125	41.0	1.614	13.5	0.531
0630	63.0	2.480	85.0	3.346	82.5	3.250	41.0	1.614	13.5	0.531
0635	63.5	2.500	85.0	3.345	82.5	3.250	41.0	1.614	13.5	0.531
0650	65.0	2.559	88.5	3.484	92.1	3.625	49.0	1.929	15.9	0.625
0666	66.6	2.625	88.5	3.484	92.1	3.625	49.0	1.929	15.9	0.625
0698	69.8	2.750	92.7	3.652	95.2	3.750	49.0	1.929	15.9	0.625
0700	70.0	2.756	92.7	3.652	95.2	3.750	49.0	1.929	15.9	0.625
0730	73.0	2.875	95.0	3.740	98.4	3.875	49.0	1.929	15.9	0.625
0730	73.0	2.875	95.0	3.740	98.4	3.875	49.0	1.929	15.9	0.625
0750	75.0	2.953	102.0	4.016	101.6	4.000	49.0	1.929	15.9	0.625
0762	76.2	3.000	102.0	4.016	101.6	4.000	49.0	1.929	15.9	0.625



P03

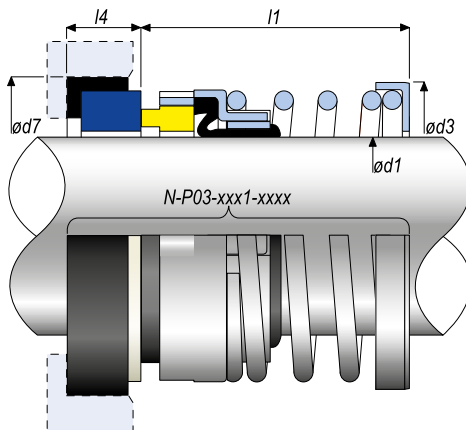


Stock code: N-P03-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB)	B - Alumina Ceramic or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P

[^]Build Code 1 = Complete Seal, P = Rotary Only



Size	d1		d3		d7		L1		L4	
	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial
0120	12.0	0.472	21.7	0.856	23.0	0.906	23.9	0.941	8.6	0.339
0140	14.0	0.551	24.0	0.945	25.0	0.984	26.4	1.039	8.6	0.339
0160	16.0	0.630	26.7	1.053	27.0	1.063	26.4	1.039	8.6	0.339
0180	18.0	0.709	30.5	1.201	33.0	1.299	27.5	1.083	8.6	0.339
0200	20.0	0.787	33.5	1.319	35.0	1.378	27.5	1.083	10.0	0.394
0220	22.0	0.866	33.5	1.319	37.0	1.457	27.5	1.083	10.0	0.394
0240	24.0	0.945	38.0	1.496	39.0	1.535	30.0	1.181	10.0	0.394
0250	25.0	0.984	39.5	1.555	40.0	1.575	30.0	1.181	10.0	0.394
0280	28.0	1.102	42.0	1.654	43.0	1.693	32.5	1.280	10.0	0.394
0300	30.0	1.181	44.0	1.732	45.0	1.772	32.5	1.280	10.0	0.394
0320	32.0	1.260	46.0	1.811	48.0	1.890	32.5	1.280	10.0	0.394
0330	33.0	1.299	46.0	1.811	48.0	1.890	32.5	1.280	10.0	0.394
0350	35.0	1.378	49.0	1.929	50.0	1.969	32.5	1.280	10.0	0.394
0380	38.0	1.496	53.0	2.087	56.0	2.205	34.0	1.339	11.0	0.433
0400	40.0	1.575	56.0	2.205	58.0	2.283	34.0	1.339	11.0	0.433
0430	43.0	1.693	58.8	2.314	61.0	2.402	34.0	1.339	11.0	0.433
0450	45.0	1.772	61.0	2.402	63.0	2.480	34.0	1.339	11.0	0.433
0480	48.0	1.890	64.0	2.520	66.0	2.598	34.0	1.339	11.0	0.433
0500	50.0	1.969	66.0	2.598	70.0	2.756	34.5	1.358	13.0	0.512
0530	53.0	2.087	70.7	2.780	73.0	2.874	34.5	1.358	13.0	0.512
0550	55.0	2.165	71.7	2.825	75.0	2.953	34.5	1.358	13.0	0.512
0580	58.0	2.283	79.6	3.134	78.0	3.071	39.5	1.555	13.0	0.512
0600	60.0	2.362	78.5	3.091	80.0	3.150	39.5	1.555	13.0	0.512
0630	63.0	2.480	81.5	3.209	83.0	3.268	39.5	1.555	13.0	0.512
0650	65.0	2.559	84.5	3.327	85.0	3.346	39.5	1.555	13.0	0.512
0680	68.0	2.677	89.7	3.533	90.0	3.543	37.2	1.465	15.3	0.602
0700	70.0	2.756	89.7	3.533	92.0	3.622	44.7	1.760	15.3	0.602
0750	75.0	2.953	97.0	3.819	97.0	3.819	44.7	1.760	15.3	0.602



P04

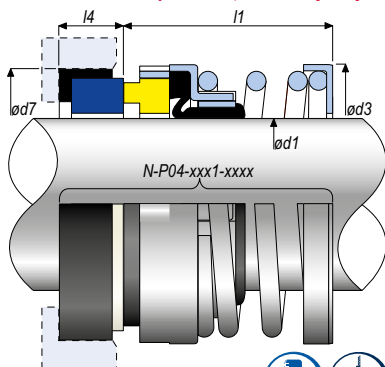


Stock code: N-P04-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB)	B - Alumina Ceramic or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P

[^]Build Code 1 = Complete Seal, P = Rotary Only



Size	d1		d3		d7		L1		L4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	24.0	0.945	25.4	1.000	20.6	0.812	7.9	0.312
0158	15.8	0.625	26.7	1.053	31.7	1.250	22.2	0.875	10.3	0.405
0191	19.1	0.750	31.2	1.230	34.9	1.375	22.2	0.875	10.3	0.405
0222	22.2	0.875	33.5	1.319	38.1	1.500	23.8	0.937	10.3	0.405
0254	25.4	1.000	43.2	1.703	41.2	1.625	25.4	1.000	11.1	0.437
0286	28.6	1.125	46.5	1.831	44.4	1.750	26.9	1.062	11.1	0.437
0317	31.7	1.250	49.5	1.949	47.6	1.875	26.9	1.062	11.1	0.437
0349	34.9	1.375	52.7	2.077	50.8	2.000	28.5	1.125	11.1	0.437
0381	38.1	1.500	56.0	2.205	53.9	2.125	28.5	1.125	11.1	0.437
0412	41.2	1.625	62.2	2.451	60.3	2.375	34.9	1.375	12.7	0.500
0444	44.4	1.750	66.0	2.598	63.5	2.500	34.9	1.375	12.7	0.500
0476	47.6	1.875	66.0	2.598	66.6	2.625	38.1	1.500	12.7	0.500
0508	50.8	2.000	73.0	2.874	69.8	2.750	38.1	1.500	12.7	0.500
0539	53.9	2.125	73.5	2.894	76.2	3.000	42.8	1.688	14.2	0.562
0571	57.1	2.250	79.6	3.133	79.3	3.125	42.8	1.688	14.2	0.562
0603	60.3	2.375	82.0	3.228	82.5	3.250	46.0	1.812	14.2	0.562
0635	63.5	2.500	85.0	3.346	85.7	3.375	46.0	1.812	14.2	0.562
0666	66.6	2.625	88.5	3.484	85.7	3.375	49.2	1.937	15.9	0.625
0698	69.8	2.750	92.7	3.652	88.9	3.500	49.2	1.937	15.9	0.625
0730	73.0	2.875	95.0	3.740	95.2	3.750	52.3	2.062	15.9	0.625
0762	76.2	3.000	102.0	4.016	98.4	3.875	52.3	2.062	15.9	0.625



Parallel Spring

P01U

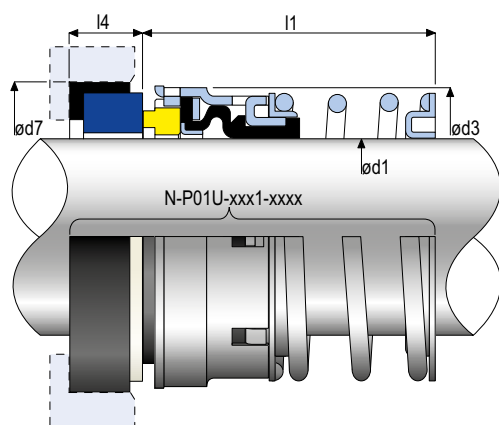
Stock code: N-P01U-xxxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	23.8	0.937	27.7	1.091	43.6	1.717	8.7	0.343
0127	12.7	0.500	23.8	0.937	27.7	1.091	43.6	1.717	8.7	0.343
0158	15.8	0.625	26.0	1.024	30.9	1.217	43.6	1.717	10.3	0.406
0160	16.0	0.630	26.0	1.024	30.9	1.217	43.6	1.717	10.3	0.406
0180	18.0	0.709	30.9	1.217	34.1	1.343	43.6	1.717	10.3	0.406
0191	19.1	0.750	30.9	1.217	34.1	1.343	43.6	1.717	10.3	0.406
0200	20.0	0.787	33.5	1.319	35.7	1.406	43.6	1.717	10.3	0.406
0220	22.0	0.866	33.5	1.319	37.3	1.469	43.6	1.717	10.3	0.406
0222	22.2	0.875	33.5	1.319	37.3	1.469	43.6	1.717	10.3	0.406
0240	24.0	0.945	38.1	1.500	40.5	1.594	43.6	1.717	10.3	0.406
0250	25.0	0.984	38.1	1.500	40.5	1.594	43.6	1.717	10.3	0.406
0254	25.4	1.000	38.1	1.500	40.5	1.594	43.6	1.717	10.3	0.406
0280	28.0	1.102	41.3	1.626	47.6	1.875	60.3	2.374	11.9	0.469
0286	28.6	1.125	41.3	1.626	47.6	1.875	60.3	2.374	11.9	0.469
0300	30.0	1.181	41.3	1.626	50.8	2.000	60.3	2.374	11.9	0.469
0317	31.7	1.250	46.0	1.811	50.8	2.000	60.3	2.374	11.9	0.469
0320	32.0	1.260	46.0	1.811	50.8	2.000	60.3	2.374	11.9	0.469
0330	33.0	1.299	46.0	1.811	53.9	2.125	60.3	2.374	11.9	0.469
0349	34.9	1.375	48.7	1.917	53.9	2.125	60.3	2.374	11.9	0.469
0350	35.0	1.378	48.7	1.917	53.9	2.125	60.3	2.374	11.9	0.469
0380	38.0	1.496	51.8	2.039	57.1	2.250	60.3	2.374	11.9	0.469
0381	38.1	1.500	51.8	2.039	57.1	2.250	60.3	2.374	11.9	0.469
0400	40.0	1.575	56.0	2.205	60.3	2.375	60.3	2.374	11.9	0.469
0412	41.2	1.625	56.0	2.205	60.3	2.375	60.3	2.374	11.9	0.469
0430	43.0	1.693	59.0	2.323	63.5	2.500	70.6	2.780	11.9	0.469
0444	44.4	1.750	59.0	2.323	63.5	2.500	70.6	2.780	11.9	0.469
0450	45.0	1.772	61.0	2.402	63.5	2.500	70.6	2.780	11.9	0.469
0476	47.6	1.875	61.0	2.402	66.6	2.625	70.6	2.780	11.9	0.469
0480	48.0	1.890	61.0	2.402	66.6	2.625	70.6	2.780	11.9	0.469
0500	50.0	1.969	66.0	2.598	69.8	2.750	70.6	2.780	13.5	0.531
0508	50.8	2.000	66.0	2.598	69.8	2.750	70.6	2.780	13.5	0.531
0530	53.0	2.087	69.0	2.717	73.0	2.875	71.0	2.795	13.5	0.531
0539	53.9	2.125	69.0	2.717	73.0	2.875	70.1	2.760	13.5	0.531
0550	55.0	2.165	69.0	2.717	76.2	3.000	71.0	2.795	13.5	0.531
0571	57.1	2.250	75.3	2.965	76.2	3.000	70.1	2.760	13.5	0.531
0580	58.0	2.283	78.0	3.071	79.3	3.125	71.0	2.795	13.5	0.531
0600	60.0	2.362	78.0	3.071	79.3	3.125	71.0	2.795	13.5	0.531
0603	60.3	2.375	78.0	3.071	79.3	3.125	70.1	2.760	13.5	0.531
0630	63.0	2.480	81.5	3.209	82.5	3.250	71.0	2.795	13.5	0.531
0635	63.5	2.500	81.5	3.209	82.5	3.250	70.1	2.760	13.5	0.531
0650	65.0	2.559	85.0	3.346	92.1	3.625	70.0	2.756	15.9	0.626
0666	66.6	2.625	85.0	3.346	92.1	3.625	70.0	2.756	15.9	0.626
0698	69.8	2.750	89.4	3.520	95.2	3.750	70.0	2.756	15.9	0.626
0700	70.0	2.756	89.4	3.520	95.2	3.750	70.0	2.756	15.9	0.626
0730	73.0	2.875	92.6	3.646	98.4	3.875	73.0	2.874	15.9	0.626
0750	75.0	2.953	95.8	3.772	101.6	4.000	73.0	2.874	15.9	0.626
0762	76.2	3.000	95.8	3.772	101.6	4.000	73.0	2.874	15.9	0.626



P02U

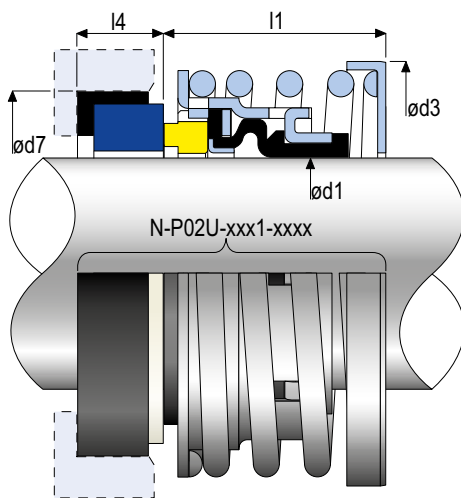
Stock code: N-P02U-xxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or H - Antimony Carbon* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



Why upgrade?

- Full convolution in the Bellows allows for greater axial movement
- Axially retained drive ring eliminates disengagement during assembly
- Flange drive ring design reduces the risk of hang up

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	30.2	1.187	27.7	1.094	25.4	1.000	8.7	0.344
0127	12.7	0.500	30.2	1.187	27.7	1.094	25.4	1.000	8.7	0.344
0158	15.8	0.625	33.3	1.312	30.9	1.219	25.4	1.000	10.3	0.406
0160	16.0	0.630	33.3	1.312	30.9	1.219	25.4	1.000	10.3	0.406
0180	18.0	0.709	36.5	1.438	34.1	1.344	25.4	1.000	10.3	0.406
0190	19.0	0.748	36.5	1.438	34.1	1.344	25.4	1.000	10.3	0.406
0191	19.1	0.750	36.5	1.438	34.1	1.344	25.4	1.000	10.3	0.406
0200	20.0	0.787	39.7	1.564	35.7	1.406	25.4	1.000	10.3	0.406
0220	22.0	0.866	39.7	1.564	37.3	1.469	25.4	1.000	10.3	0.406
0222	22.2	0.875	39.7	1.564	37.3	1.469	25.4	1.000	10.3	0.406
0240	24.0	0.945	45.3	1.783	40.5	1.594	25.4	1.000	10.3	0.406
0250	25.0	0.984	45.3	1.783	40.5	1.594	25.4	1.000	10.3	0.406
0254	25.4	1.000	45.3	1.783	40.5	1.594	25.4	1.000	10.3	0.406
0280	28.0	1.102	48.5	1.908	47.6	1.875	33.3	1.313	11.9	0.472
0286	28.6	1.125	48.5	1.908	47.6	1.875	33.3	1.313	11.9	0.472
0300	30.0	1.181	48.5	1.908	50.8	2.000	33.3	1.313	11.9	0.472
0317	31.7	1.250	52.8	2.079	50.8	2.000	33.3	1.313	11.9	0.472
0320	32.0	1.260	52.8	2.079	50.8	2.000	33.3	1.313	11.9	0.472
0330	33.0	1.299	52.8	2.079	53.9	2.125	33.3	1.313	11.9	0.472
0349	34.9	1.375	56.0	2.204	53.9	2.125	33.3	1.313	11.9	0.472
0350	35.0	1.378	56.0	2.204	53.9	2.125	33.3	1.313	11.9	0.472
0380	38.0	1.496	59.2	2.329	57.1	2.250	33.3	1.313	11.9	0.472
0381	38.1	1.500	59.2	2.329	57.1	2.250	33.3	1.313	11.9	0.472
0400	40.0	1.575	65.0	2.559	60.3	2.375	33.3	1.313	11.9	0.472
0412	41.2	1.625	65.0	2.559	60.3	2.375	33.3	1.313	11.9	0.472
0430	43.0	1.693	68.0	2.677	63.5	2.500	40.4	1.594	11.9	0.472
0444	44.4	1.750	68.0	2.677	63.5	2.500	40.4	1.594	11.9	0.472
0450	45.0	1.772	68.0	2.677	63.5	2.500	40.4	1.594	11.9	0.472
0476	47.6	1.875	70.0	2.756	66.6	2.625	40.4	1.594	11.9	0.472
0480	48.0	1.890	70.0	2.756	66.6	2.625	40.4	1.594	11.9	0.472
0500	50.0	1.969	75.0	2.953	69.8	2.750	40.4	1.594	13.5	0.531
0508	50.8	2.000	75.0	2.953	69.8	2.750	40.4	1.594	13.5	0.531
0530	53.0	2.087	79.0	3.110	73.0	2.875	41.0	1.614	13.5	0.531
0539	53.9	2.125	79.0	3.110	73.0	2.875	41.0	1.614	13.5	0.531
0550	55.0	2.165	79.0	3.110	76.2	3.000	41.0	1.614	13.5	0.531
0571	57.1	2.250	85.3	3.358	76.2	3.000	41.0	1.614	13.5	0.531
0580	58.0	2.283	88.0	3.465	79.3	3.125	41.0	1.614	13.5	0.531
0600	60.0	2.362	88.0	3.465	79.3	3.125	41.0	1.614	13.5	0.531
0603	60.3	2.375	88.0	3.465	79.3	3.125	41.0	1.614	13.5	0.531
0635	63.5	2.500	91.5	3.602	82.5	3.250	41.0	1.614	13.5	0.531
0650	65.0	2.559	95.0	3.740	92.1	3.625	49.0	1.929	15.9	0.626
0666	66.6	2.625	95.0	3.740	92.1	3.625	49.0	1.929	15.9	0.625
0698	69.8	2.750	101.4	3.992	95.2	3.750	49.0	1.929	15.9	0.625
0700	70.0	2.756	101.3	3.988	95.2	3.750	49.0	1.929	15.9	0.626
0730	73.0	2.875	104.8	4.125	98.4	3.875	49.0	1.929	15.9	0.625
0750	75.0	2.953	107.8	4.244	101.6	4.000	49.0	1.929	15.9	0.626
0762	76.2	3.000	108.0	4.250	101.6	4.000	49.0	1.929	15.9	0.625



Parallel Spring

P03U

Stock code: N-P03U-xxxx-xxxx

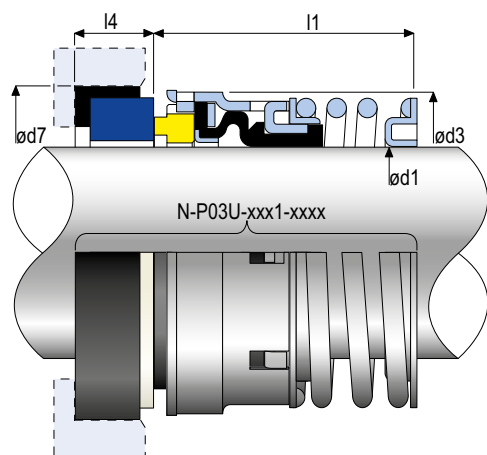
Why upgrade?

- Full convolution in the Bellows allows for greater axial movement
- Axially retained drive ring eliminates disengagement during assembly
- Flange drive ring design reduces the risk of hang up

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	23.8	0.937	23.0	0.906	25.9	1.020	6.6	0.260
0160	16.0	0.630	26.0	1.024	27.0	1.063	28.4	1.118	6.6	0.260
0180	18.0	0.709	30.9	1.218	33.0	1.299	30.0	1.181	7.5	0.295
0200	20.0	0.787	33.5	1.319	35.0	1.378	30.0	1.181	7.5	0.295
0220	22.0	0.866	33.5	1.319	37.0	1.457	30.0	1.181	7.5	0.295
0240	24.0	0.945	38.1	1.500	39.0	1.535	32.5	1.280	7.5	0.295
0250	25.0	0.984	38.1	1.500	40.0	1.575	32.5	1.280	7.5	0.295
0280	28.0	1.102	41.3	1.626	43.0	1.693	35.0	1.378	7.5	0.295
0300	30.0	1.181	41.3	1.626	45.0	1.772	35.0	1.378	7.5	0.295
0320	32.0	1.260	46.0	1.811	48.0	1.890	35.0	1.378	7.5	0.295
0330	33.0	1.299	46.0	1.811	48.0	1.890	35.0	1.378	7.5	0.295
0350	35.0	1.378	48.7	1.917	50.0	1.969	35.0	1.378	7.5	0.295
0380	38.0	1.496	51.8	2.041	56.0	2.205	36.0	1.417	9.0	0.354
0400	40.0	1.575	56.0	2.205	58.0	2.283	36.0	1.417	9.0	0.354
0430	43.0	1.693	59.0	2.323	61.0	2.402	36.0	1.417	9.0	0.354
0450	45.0	1.772	61.0	2.402	63.0	2.480	36.0	1.417	9.0	0.354
0480	48.0	1.890	61.0	2.402	66.0	2.598	36.0	1.417	9.0	0.354
0500	50.0	1.969	66.0	2.598	70.0	2.756	38.0	1.496	9.5	0.374
0530	53.0	2.087	69.0	2.717	73.0	2.874	36.5	1.437	11.0	0.433
0550	55.0	2.165	69.0	2.717	75.0	2.953	36.5	1.437	11.0	0.433
0580	58.0	2.283	78.0	3.071	78.0	3.071	41.5	1.634	11.0	0.433
0600	60.0	2.362	78.0	3.071	80.0	3.150	41.5	1.634	11.0	0.433
0630	63.0	2.480	81.5	3.209	83.0	3.268	41.5	1.634	11.0	0.433
0650	65.0	2.559	85.0	3.346	85.0	3.346	41.5	1.634	11.0	0.433
0700	70.0	2.756	89.4	3.520	92.0	3.622	48.7	1.917	11.3	0.445
0750	75.0	2.953	95.8	3.772	97.0	3.819	48.7	1.917	11.3	0.445



P04U

Stock code: N-P04U-xxxx-xxxx

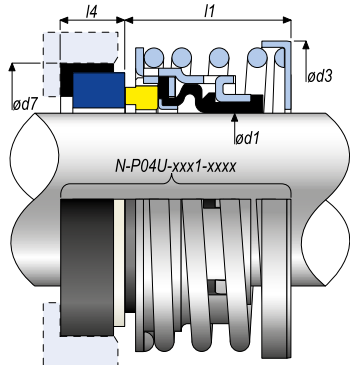
Why upgrade?

- Full convolution in the Bellows allows for greater axial movement
- Axially retained drive ring eliminates disengagement during assembly
- Flange drive ring design reduces the risk of hang up

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or H - Antimony Carbon* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	30.2	1.187	25.4	1.000	20.7	0.813	7.9	0.312
0158	15.8	0.625	33.3	1.312	31.7	1.250	22.2	0.875	10.3	0.405
0191	19.1	0.750	36.5	1.438	34.9	1.375	22.2	0.875	10.3	0.405
0222	22.2	0.875	39.7	1.564	38.1	1.500	23.8	0.937	10.3	0.405
0254	25.4	1.000	45.3	1.783	41.2	1.625	25.4	1.000	11.1	0.437
0286	28.6	1.125	48.5	1.908	44.4	1.750	27.0	1.062	11.1	0.437
0317	31.7	1.250	52.8	2.079	47.6	1.875	27.0	1.062	11.1	0.437
0349	34.9	1.375	56.0	2.204	50.8	2.000	28.6	1.125	11.1	0.437
0381	38.1	1.500	59.2	2.329	53.9	2.125	28.6	1.125	11.1	0.437
0412	41.2	1.625	67.0	2.636	60.3	2.375	34.9	1.375	12.7	0.500
0444	44.4	1.750	70.1	2.761	63.5	2.500	34.9	1.375	12.7	0.500
0476	47.6	1.875	73.2	2.880	66.6	2.625	38.1	1.500	12.7	0.500
0508	50.8	2.000	75.0	2.953	69.8	2.750	38.1	1.500	12.7	0.500
0539	53.9	2.125	82.7	3.256	76.2	3.000	42.8	1.687	14.3	0.562
0571	57.1	2.250	85.9	3.381	79.3	3.125	42.8	1.687	14.3	0.562
0603	60.3	2.375	89.1	3.506	82.5	3.250	46.0	1.812	14.3	0.562
0635	63.5	2.500	92.2	3.631	85.7	3.375	46.0	1.812	14.3	0.562
0666	66.6	2.625	98.4	3.875	85.7	3.375	49.2	1.937	15.9	0.625
0698	69.8	2.750	101.6	4.000	88.9	3.500	49.2	1.937	15.9	0.625
0730	73.0	2.875	104.8	4.125	95.2	3.750	52.4	2.062	15.9	0.625
0762	76.2	3.000	108.0	4.250	98.4	3.875	52.4	2.062	15.9	0.625



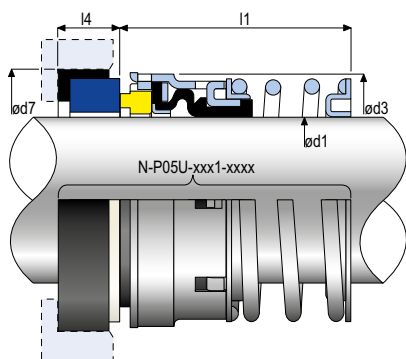
N-P05U

Stock code: N-P05U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P Q

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



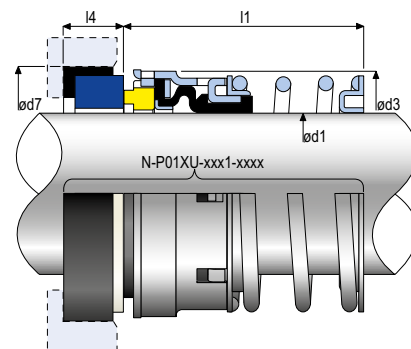
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	23.8	0.937	25.4	1.000	30.1	1.187	7.9	0.312
0158	15.8	0.625	26.0	1.024	31.7	1.250	33.3	1.312	10.3	0.405
0191	19.1	0.750	30.9	1.217	34.9	1.375	33.3	1.312	10.3	0.405
0222	22.2	0.875	33.5	1.319	38.1	1.500	34.9	1.375	10.3	0.405
0254	25.4	1.000	38.1	1.500	41.2	1.625	39.7	1.562	11.1	0.437
0286	28.6	1.125	41.3	1.626	44.4	1.750	41.3	1.625	11.1	0.437
0317	31.7	1.250	46.0	1.811	47.6	1.875	41.3	1.625	11.1	0.437
0349	34.9	1.375	48.7	1.917	50.8	2.000	42.8	1.687	11.1	0.437
0381	38.1	1.500	51.8	2.039	53.9	2.125	42.8	1.687	11.1	0.437
0412	41.2	1.625	56.0	2.205	60.3	2.375	50.8	2.000	12.7	0.500
0444	44.4	1.750	59.0	2.323	63.5	2.500	50.8	2.000	12.7	0.500
0476	47.6	1.875	61.0	2.402	66.6	2.625	54.0	2.125	12.7	0.500
0508	50.8	2.000	66.0	2.598	69.8	2.750	54.0	2.125	12.7	0.500
0539	53.9	2.125	69.0	2.717	76.2	3.000	60.3	2.375	14.3	0.562
0571	57.1	2.250	75.3	2.965	79.3	3.125	60.3	2.375	14.3	0.562
0603	60.3	2.375	78.0	3.071	82.5	3.250	63.5	2.500	14.3	0.562
0635	63.5	2.500	81.5	3.209	85.7	3.375	63.5	2.500	14.3	0.562
0666	66.6	2.625	85.0	3.346	85.7	3.375	69.9	2.750	15.9	0.625
0698	69.8	2.750	89.4	3.520	88.9	3.500	69.9	2.750	15.9	0.625
0730	73.0	2.875	92.6	3.646	95.2	3.750	73.0	2.875	15.9	0.625
0762	76.2	3.000	95.8	3.772	98.4	3.875	73.0	2.875	15.9	0.625



Parallel Spring

P01XU

Stock code: N-P01XU-xxxx-xxxx



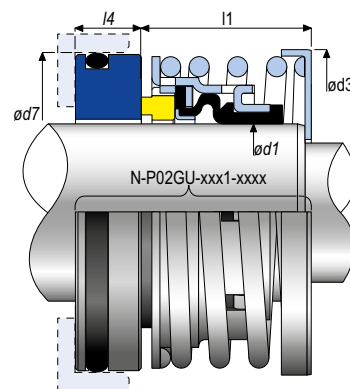
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SIC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0350	35.0	1.378	48.7	1.917	53.9	2.122	60.3	2.375	9.5	0.374



P02GU

Stock code: N-P02GU-xxxx-xxxx



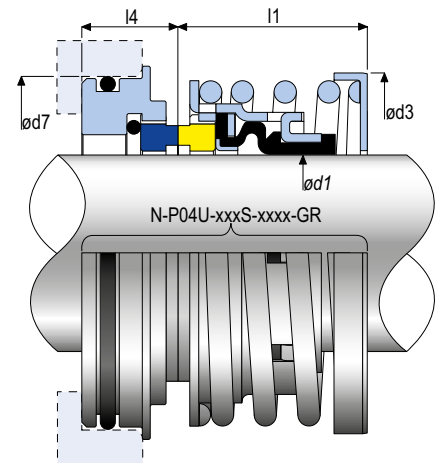
Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB) or G - Tungsten Carbide	D - Silicon Carbide (RB) or G - Tungsten Carbide	X - Nitrile (BUNA) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0381	38.1	1.500	59.2	2.329	60.3	2.374	33.3	1.313	13.2	0.520



P04U-GR

Stock code: N-P04U-xxxxS-xxxx-GR



Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide or J - Sintered SiC	G - Tungsten Carbide or J - Sintered SiC	Z - Viton (FPM)	S

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0476	47.6	1.875	73.2	2.880	73.0	2.875	38.1	1.500	20.6	0.809



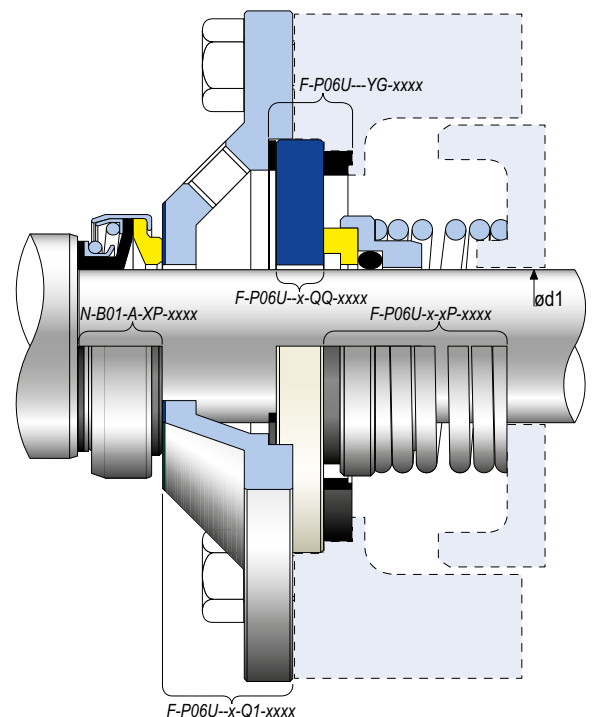
P06U

Parts are available in the following materials:

Rotary Face	Stationary Face*	Elastomer
A - Carbon or J - Sintered SiC	B - Alumina Ceramic or E - Stainless Steel or J - Sintered SiC or O - Chrome Oxide	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)

Size	d1	
	Metric	Inches
0254	25.4	1.000
0381	38.1	1.500

*Availability subject to component



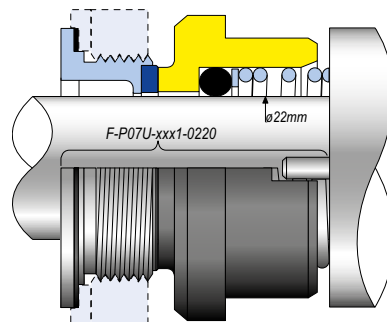
Parallel Spring

P07U (Single Seals)

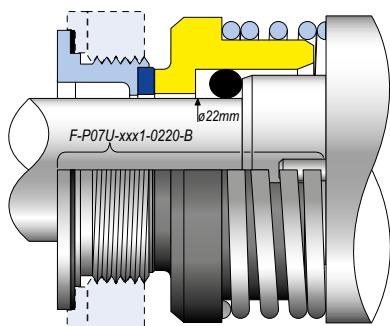
Stock code: F-P07U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide* or J - Sintered SiC	J - Sintered SiC or E - Stainless Steel or G - Tungsten Carbide*	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

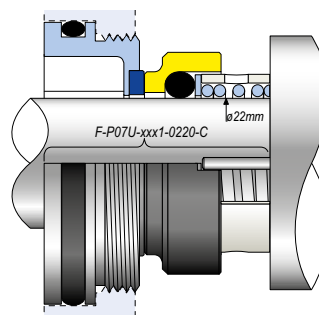
*Availability subject to order quantity



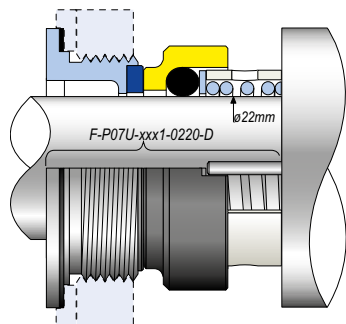
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0220



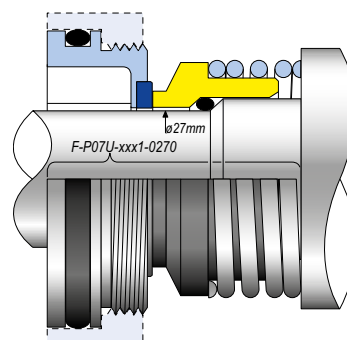
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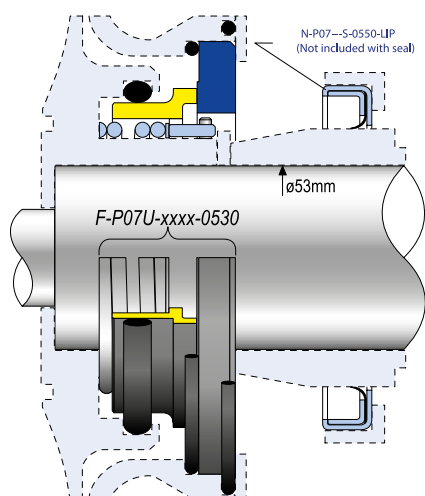
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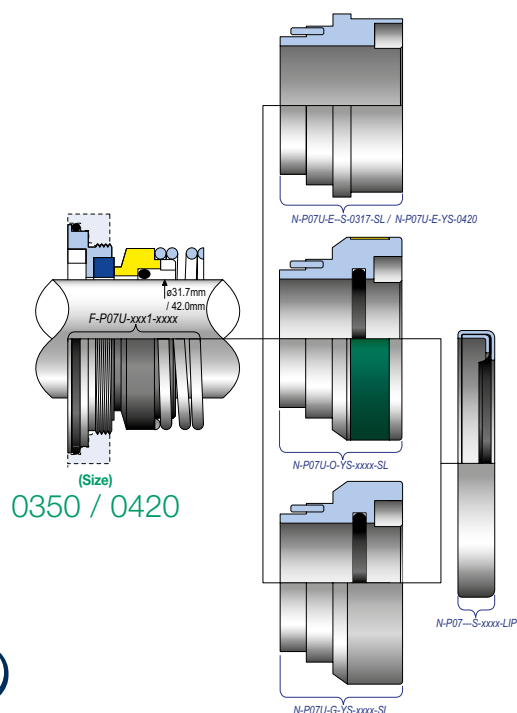
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0220-D



(Size)
0270



(Size)
0530



(Size)
0350 / 0420

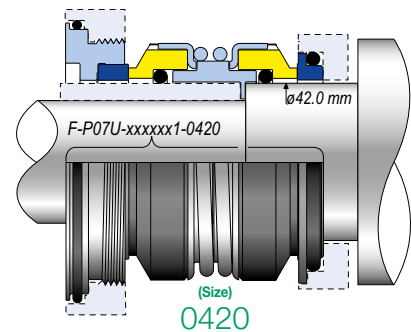
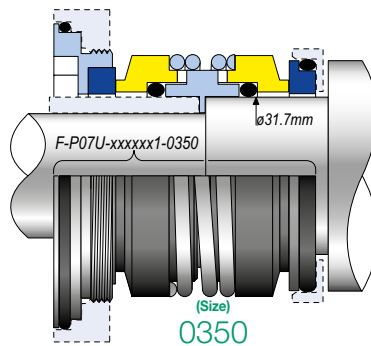
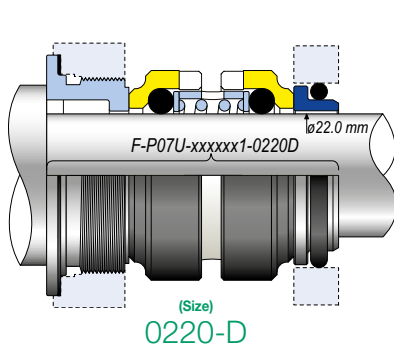


P07U (Double Seals)

Stock code: F-P07U-xxxxxx-xxxx
(Size)

Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide* or J - Sintered SiC	E - Stainless Steel or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	A - Carbon or G - Tungsten Carbide* or J - Sintered SiC	E - Stainless Steel or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity



Parallel Spring

P08U / P08SU

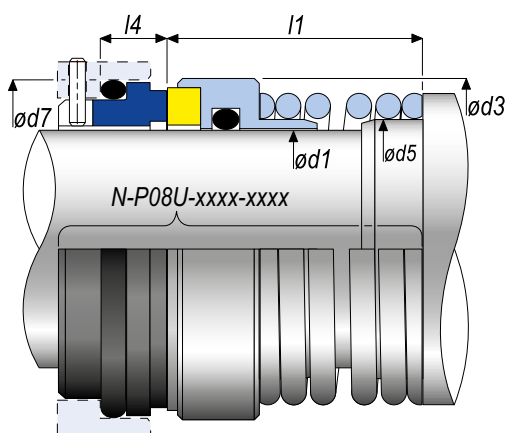
Stock code: N-P08xU-xxxx-xxxx



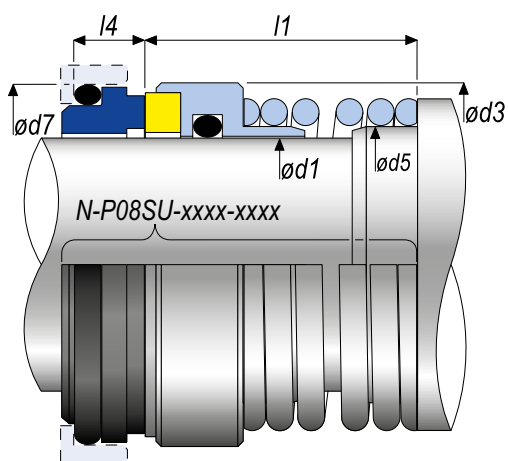
Rotary Face	Stationary Face	Elastomer	Build Code [^]
G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	L Q R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring, Q = Stationary Only

N-P08U



N-P08SU



Where a stepped shaft is not present
C02U, C03U or C04U clamp rings can
be used (see pages 25-27 for details)

Size	d1		d3		d5		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0158	15.8	0.625	29.0	1.142	19.1	0.750	28.6	1.125	24.5	0.965	9.0	0.354
0191	19.1	0.750	32.5	1.280	22.2	0.875	31.7	1.250	24.5	0.965	9.0	0.354
0200	20.0	0.787	34.5	1.358	24.0	0.945	33.3	1.312	27.5	1.083	9.0	0.354
0222	22.2	0.875	34.9	1.378	25.4	1.000	34.9	1.375	26.0	1.024	9.0	0.354
0250	25.0	0.984	38.1	1.500	28.6	1.125	39.9	1.569	30.0	1.181	10.0	0.394
0254	25.4	1.000	38.1	1.500	28.6	1.125	39.9	1.569	30.0	1.181	10.0	0.394
0280	28.0	1.102	42.0	1.654	31.8	1.250	43.1	1.695	31.5	1.240	10.0	0.394
0286	28.6	1.125	42.9	1.687	31.8	1.250	43.1	1.695	31.5	1.240	10.0	0.394
0300	30.0	1.181	45.5	1.791	33.3	1.312	44.6	1.757	31.5	1.240	10.0	0.394
0317	31.7	1.250	46.0	1.811	34.9	1.375	46.3	1.824	34.5	1.358	10.0	0.394
0320	32.0	1.260	47.0	1.850	34.9	1.375	46.3	1.824	34.5	1.358	10.0	0.394
0349	34.9	1.375	49.2	1.937	38.1	1.500	49.5	1.948	37.5	1.476	10.0	0.394
0350	35.0	1.378	50.0	1.969	38.1	1.500	49.5	1.948	37.5	1.476	10.0	0.394
0380	38.0	1.496	53.0	2.087	42.9	1.688	52.6	2.069	37.5	1.476	10.0	0.394
0381	38.1	1.500	52.4	2.063	42.9	1.688	52.6	2.069	37.5	1.476	10.0	0.394
0400	40.0	1.575	55.0	2.165	44.5	1.750	54.3	2.136	37.5	1.476	10.0	0.394
0412	41.2	1.625	55.5	2.185	46.0	1.812	55.8	2.198	37.5	1.476	10.0	0.394
0420	42.0	1.654	55.5	2.185	46.0	1.812	55.8	2.198	37.5	1.476	10.0	0.394
0444	44.4	1.750	58.7	2.313	49.2	1.937	59.0	2.324	37.5	1.476	10.0	0.394
0450	45.0	1.772	60.0	2.362	49.2	1.937	59.0	2.324	37.5	1.476	10.0	0.394
0476	47.6	1.875	61.9	2.437	52.4	2.062	63.7	2.507	42.5	1.673	10.0	0.394
0500	50.0	1.969	66.0	2.598	54.0	2.125	65.4	2.574	45.5	1.791	10.0	0.394
0508	50.8	2.000	66.7	2.625	55.6	2.188	66.9	2.632	45.5	1.791	10.0	0.394
0539	53.9	2.125	69.9	2.750	58.7	2.312	70.0	2.756	47.0	1.850	10.0	0.394
0550	55.0	2.165	71.0	2.795	58.7	2.312	70.0	2.756	47.0	1.850	10.0	0.394
0571	57.1	2.250	73.0	2.875	61.9	2.437	73.2	2.882	47.0	1.850	10.0	0.394
0600	60.0	2.362	77.0	3.031	65.1	2.562	76.4	3.007	50.5	1.988	10.0	0.394
0603	60.3	2.375	76.2	3.000	65.1	2.562	76.4	3.007	50.5	1.988	10.0	0.394
0635	63.5	2.500	79.4	3.125	68.3	2.688	79.6	3.133	50.5	1.988	10.0	0.394
0650	65.0	2.559	82.0	3.228	69.9	2.750	81.2	3.198	53.5	2.106	10.0	0.394
0666	66.6	2.625	82.6	3.250	71.4	2.812	82.7	3.257	53.5	2.106	10.0	0.394
0698	69.8	2.750	85.7	3.375	74.6	2.937	85.9	3.382	53.5	2.106	10.0	0.394
0700	70.0	2.756	87.0	3.425	74.6	2.937	85.9	3.382	53.5	2.106	10.0	0.394
0730	73.0	2.875	90.0	3.543	77.8	3.062	89.1	3.507	56.5	2.224	10.0	0.394
0750	75.0	2.953	91.5	3.602	79.4	3.125	90.8	3.574	56.6	2.228	10.0	0.394
0762	76.2	3.000	95.3	3.750	81.0	3.188	95.4	3.757	63.0	2.480	10.0	0.394
0800	80.0	3.150	99.5	3.917	85.7	3.375	100.3	3.948	63.0	2.480	10.0	0.394
0825	82.5	3.250	101.6	4.000	87.3	3.437	101.8	4.007	63.0	2.480	10.0	0.394
0850	85.0	3.346	105.5	4.154	90.0	3.543	104.7	4.125	63.0	2.480	10.0	0.394
0889	88.9	3.500	108.0	4.250	93.7	3.688	108.1	4.257	63.0	2.480	10.0	0.394
0900	90.0	3.543	110.5	4.350	95.3	3.750	109.8	4.324	68.0	2.677	10.0	0.394
0950	95.0	3.740	115.5	4.547	100.0	3.937	114.3	4.500	68.0	2.677	10.0	0.394
1000	100.0	3.937	120.0	4.724	104.8	4.125	119.3	4.698	68.0	2.677	10.0	0.394
1016	101.6	4.000	124.5	4.902	108.0	4.250	124.0	4.882	72.5	2.854	10.0	0.394
1050	105.0	4.134	128.0	5.039	111.0	4.370	127.0	5.000	72.5	2.854	10.0	0.394
1100	110.0	4.331	133.0	5.236	116.0	4.567	131.7	5.188	72.5	2.854	10.0	0.394
1150	115.0	4.527	137.5	5.413	121.0	4.764	136.5	5.375	72.5	2.854	10.0	0.394



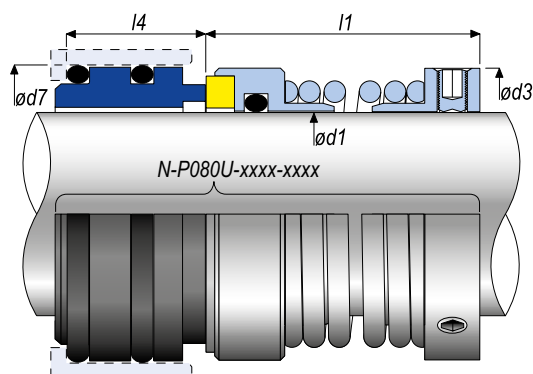
P080U

Stock code: N-P080U-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code ^A
G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L Q R

^ABuild Code R = Right Hand Spring, L = Left Hand Spring, Q = Stationary Only



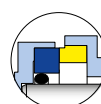
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	38.1	1.500	40.0	1.575	38.0	1.496	24.0	0.945
0280	28.0	1.102	42.0	1.654	44.0	1.732	40.0	1.575	24.0	0.945
0300	30.0	1.181	45.5	1.791	47.0	1.850	40.0	1.575	26.0	1.024
0320	32.0	1.260	47.0	1.850	48.0	1.890	40.0	1.575	26.0	1.024
0350	35.0	1.378	50.0	1.969	51.0	2.008	40.0	1.575	26.0	1.024
0380	38.0	1.496	53.0	2.087	54.0	2.126	45.0	1.772	26.0	1.024
0400	40.0	1.575	55.0	2.165	57.0	2.244	45.0	1.772	26.0	1.024
0420	42.0	1.654	55.0	2.185	60.5	2.382	50.0	1.969	26.0	1.024
0450	45.0	1.772	60.0	2.362	61.0	2.402	50.0	1.969	26.0	1.024
0480	48.0	1.890	61.9	2.437	64.0	2.520	55.0	2.165	26.0	1.024
0500	50.0	1.969	66.0	2.598	67.0	2.638	55.0	2.165	26.0	1.024
0520	52.0	2.047	68.0	2.677	70.0	2.756	58.0	2.283	26.0	1.024
0550	55.0	2.165	71.0	2.795	73.0	2.874	58.0	2.283	26.0	1.024
0580	58.0	2.283	74.0	2.913	76.0	2.992	58.0	2.283	26.0	1.024
0600	60.0	2.362	77.0	3.031	80.0	3.150	60.0	2.362	28.0	1.102
0620	62.0	2.441	78.0	3.071	83.0	3.268	60.0	2.362	28.0	1.102
0650	65.0	2.559	82.0	3.228	86.0	3.386	62.0	2.441	28.0	1.102
0680	68.0	2.677	84.0	3.307	89.0	3.504	62.0	2.441	28.0	1.102
0700	70.0	2.756	87.0	3.425	89.0	3.504	65.0	2.559	28.0	1.102
0750	75.0	2.953	91.5	3.602	95.0	3.740	65.0	2.559	28.0	1.102



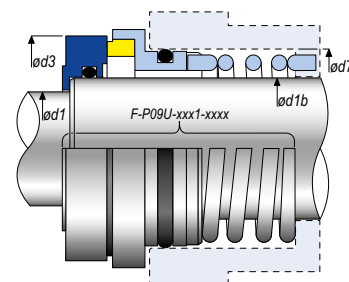
P09U



Stock code: F-P09U-XXXX-XXXX



Inserted stationary
face for Silicon
face material



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		d1b	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	35.0	1.378	30.0	1.181	16.0	0.630
0180	18.0	0.708	59.0	2.323	50.0	1.968	25.0	0.984
0210	21.0	0.827	59.0	2.323	50.0	1.968	25.0	0.984
0280	28.0	1.102	59.0	2.323	50.0	1.968	36.0	1.417
0400	40.0	1.575	73.0	2.874	64.0	2.520	50.0	1.968



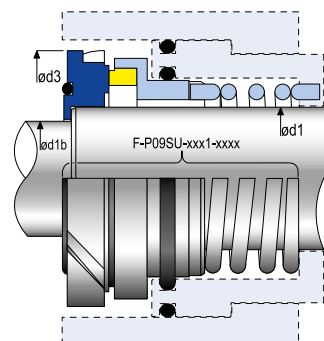
Parallel Spring

P09SU



Stock code: F-P09SU-XXXX-XXXX

Inserted stationary face for Silicon face material



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

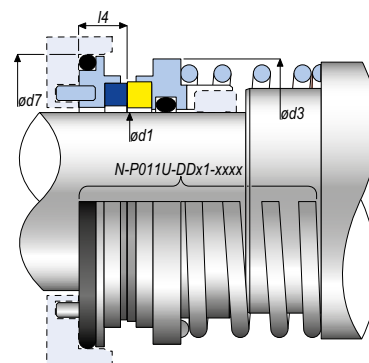
Size	d1 Metric	d1 Inches	d3 Metric	d3 Inches	d1b Metric	d1b Inches
0220	22.0	0.866	52.0	2.047	18.0	0.709
0300	30.0	1.181	66.0	2.598	22.0	0.866
0350	35.0	1.378	66.0	2.598	30.0	1.181



P011U



Stock code: N-P011U-XXXX-XXXX



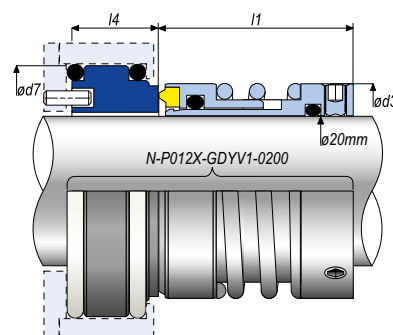
Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

Size	d1 Metric	d1 Inches	d3 Metric	d3 Inches	d7 Metric	d7 Inches	l4 Metric	l4 Inches
0286	28.6	1.125	47.2	1.858	50.8	2.000	9.4	0.370
0365	36.5	1.437	56.5	2.224	58.8	2.313	9.4	0.370



P012X

Stock code: N-P012X-XXXX-XXXX



Rotary Face	Stationary Face	Rotary Elastomer	Stationary Elastomer	Build Code
G - Tungsten Carbide	D - Silicon Carbide (RB)	Y - EPDM (EPDM)	V - PTFE	1

Size	d1 Metric	d1 Inches	d3 Metric	d3 Inches	d7 Metric	d7 Inches	l1 Metric	l1 Inches	l4 Metric	l4 Inches
0200	20.0	0.787	36.0	1.417	46.0	1.811	58.0	2.283	16.0	0.630

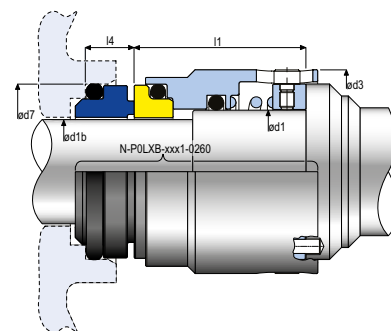


P0LXB

Stock code: N-P0LXB-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB)	A - Carbon or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d1b		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0260	26.0	1.024	22.0	0.866	43.0	1.693	37.0	1.456	36.4	1.433	10.4	0.409



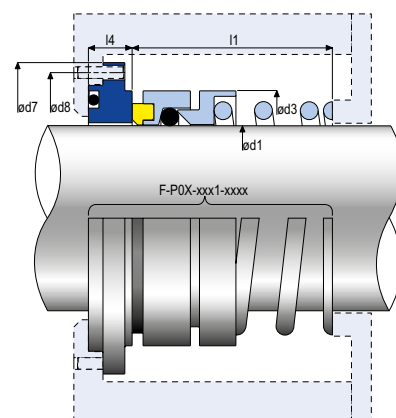
P0X



Stock code: F-P0X-xxxx-xxxx
(Size)

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	E - Stainless Steel	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		d8		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0381	38.1	1.500	54.0	2.126	69.9	2.750	64.0	2.520	55.0	2.165	12.0	0.472
0508	50.8	2.000	70.0	2.756	85.5	3.366	80.0	3.150	55.0	2.165	12.0	0.472

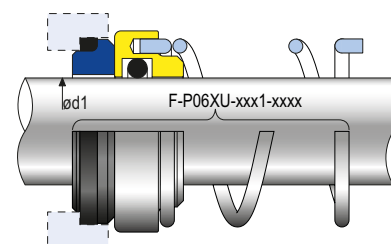


P06XU

Stock code: F-P06XU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel	A - Carbon	Y - EPR (EPDM)	1

Size	d1	
	Metric	Inches
0254	25.4	1.000

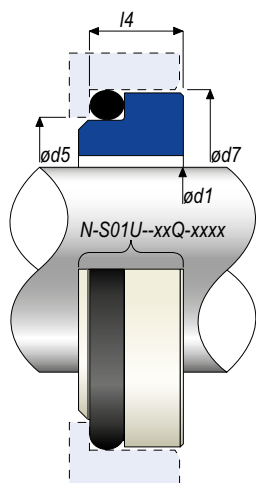


Stationary Face

S01U

Stock code: N-S01U-xxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q



Size	d1		d5		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	15.5	0.610	19.2	0.756	6.6	0.260
0120	12.0	0.472	17.5	0.689	21.6	0.850	5.6	0.220
0140	14.0	0.551	20.5	0.807	24.6	0.969	5.6	0.220
0150	15.0	0.591	20.5	0.807	24.6	0.969	6.6	0.260
0160	16.0	0.630	22.0	0.866	28.0	1.102	7.5	0.295
0180	18.0	0.709	24.0	0.945	30.0	1.181	8.0	0.315
0190	19.0	0.748	25.0	0.984	31.0	1.220	7.5	0.295
0200	20.0	0.787	29.5	1.161	35.0	1.378	7.5	0.295
0220	22.0	0.866	29.5	1.161	35.0	1.378	7.5	0.295
0240	24.0	0.945	32.0	1.260	38.0	1.496	7.5	0.295
0250	25.0	0.984	32.0	1.260	38.0	1.496	7.5	0.295
0280	28.0	1.102	36.0	1.417	42.0	1.654	9.0	0.354
0300	30.0	1.181	39.2	1.543	45.0	1.772	10.5	0.413
0320	32.0	1.260	42.2	1.661	48.0	1.890	10.5	0.413
0330	33.0	1.299	42.2	1.661	50.0	1.969	11.0	0.433
0350	35.0	1.378	46.2	1.819	52.0	2.047	11.0	0.433
0380	38.0	1.496	49.2	1.937	55.0	2.165	10.3	0.406
0400	40.0	1.575	52.2	2.055	58.0	2.283	10.8	0.425
0430	43.0	1.693	53.3	2.098	62.0	2.441	12.0	0.472
0450	45.0	1.772	53.3	2.098	64.0	2.520	11.6	0.457
0480	48.0	1.890	59.7	2.350	68.4	2.693	11.6	0.457
0500	50.0	1.969	60.8	2.394	69.3	2.728	11.6	0.457
0530	53.0	2.087	63.8	2.512	72.3	2.846	12.3	0.484
0550	55.0	2.165	66.5	2.618	75.4	2.969	13.3	0.524
0580	58.0	2.283	69.5	2.736	78.4	3.087	13.3	0.524
0600	60.0	2.362	71.5	2.815	80.4	3.165	13.3	0.524
0650	65.0	2.559	76.5	3.012	85.4	3.362	13.0	0.512
0680	68.0	2.677	82.7	3.256	91.5	3.602	13.7	0.539
0700	70.0	2.756	83.0	3.268	92.0	3.622	13.0	0.512
0750	75.0	2.953	90.2	3.551	99.0	3.898	14.0	0.551
0800	80.0	3.150	95.2	3.748	104.0	4.094	15.0	0.591
0850	85.0	3.346	100.2	3.945	109.0	4.291	14.8	0.583
0900	90.0	3.543	105.2	4.142	114.0	4.488	14.8	0.583
0950	95.0	3.740	111.6	4.394	120.3	4.736	15.8	0.622
1000	100.0	3.937	114.2	4.496	123.3	4.854	15.8	0.622

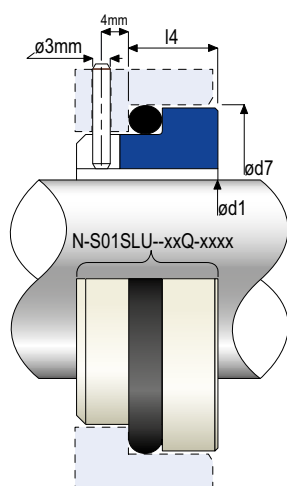


S01SLU

Stock code: N-S01SLU-xxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	Q

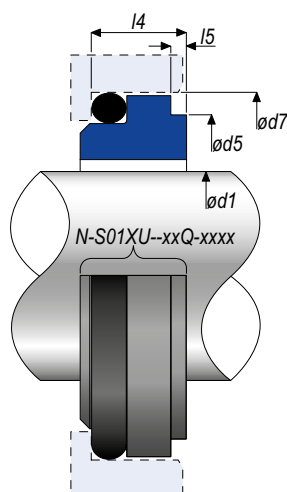


Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	19.2	0.756	5.6	0.220
0120	12.0	0.472	21.6	0.850	5.6	0.220
0140	14.0	0.551	24.6	0.969	6.6	0.260
0150	15.0	0.591	24.6	0.969	6.6	0.260
0160	16.0	0.630	28.0	1.102	7.0	0.276
0180	18.0	0.709	30.0	1.181	8.0	0.315
0190	19.0	0.748	35.0	1.378	7.5	0.295
0200	20.0	0.787	35.0	1.378	7.5	0.295
0220	22.0	0.866	35.0	1.378	7.5	0.295
0240	24.0	0.945	38.0	1.496	7.5	0.295
0250	25.0	0.984	38.0	1.496	7.5	0.295
0260	26.0	1.024	38.0	1.496	7.5	0.295
0280	28.0	1.102	42.0	1.654	9.0	0.354
0300	30.0	1.181	45.0	1.772	10.5	0.413
0320	32.0	1.260	48.0	1.890	10.5	0.413
0350	35.0	1.378	52.0	2.047	11.0	0.433
0380	38.0	1.496	55.0	2.165	10.3	0.406
0400	40.0	1.575	58.0	2.283	10.8	0.425
0420	42.0	1.654	62.0	2.441	12.2	0.480
0450	45.0	1.772	64.0	2.520	11.8	0.465
0480	48.0	1.890	68.4	2.693	11.8	0.465
0500	50.0	1.969	69.3	2.728	11.8	0.465
0550	55.0	2.165	75.4	2.969	13.5	0.531
0580	58.0	2.283	78.4	3.087	13.5	0.531
0600	60.0	2.362	80.4	3.165	13.5	0.531
0650	65.0	2.559	85.4	3.362	13.2	0.520
0680	68.0	2.677	91.5	3.602	13.7	0.539
0700	70.0	2.756	92.0	3.622	13.2	0.520
0750	75.0	2.953	99.0	3.898	14.2	0.559
0800	80.0	3.150	104.0	4.094	15.2	0.598

S01XU

Stock code: N-S01XU-xxx-xxxx (Size)

Rotary Face	Stationary Face	Elastomer	Build Code
-	D - Silicon Carbide (RB) or J - Sintered Silicon	X - Nitrile (BUNA) or Z - Viton (FPM) or Y - EPDM (EPDM)	Q



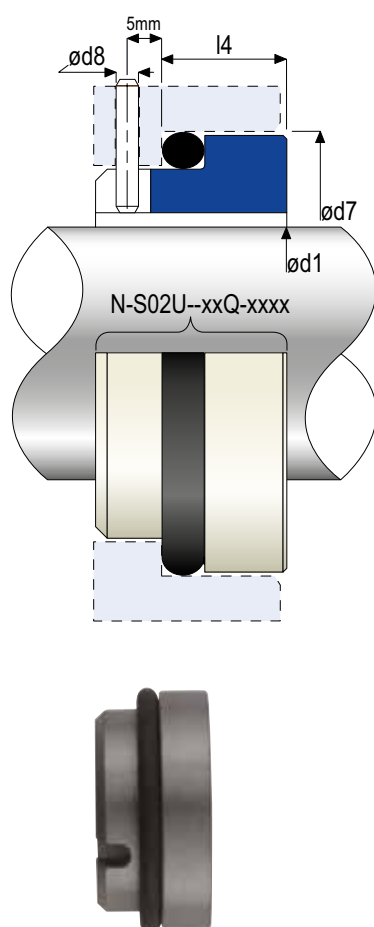
Size	d1		d5		d7		l4		l5	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	17.0	0.669	19.2	0.756	6.6	0.260	2.0	0.079
0120	12.0	0.472	19.0	0.748	21.6	0.850	5.6	0.220	1.0	0.039
0140	14.0	0.551	21.5	0.846	24.6	0.969	5.6	0.220	1.0	0.039
0150	15.0	0.591	21.5	0.846	24.6	0.969	6.6	0.260	2.0	0.079
0160	16.0	0.630	24.0	0.945	28.0	1.102	7.5	0.295	1.5	0.059
0180	18.0	0.709	27.5	1.083	30.0	1.181	8.0	0.315	2.0	0.079
0200	20.0	0.787	32.0	1.260	35.0	1.378	7.5	0.295	1.5	0.059
0220	22.0	0.866	32.0	1.260	35.0	1.378	7.5	0.295	1.5	0.059
0240	24.0	0.945	35.0	1.378	38.0	1.496	7.5	0.295	1.5	0.059
0250	25.0	0.984	35.0	1.378	38.0	1.496	7.5	0.295	1.5	0.059
0280	28.0	1.102	38.0	1.496	42.0	1.654	9.0	0.354	3.0	0.118
0300	30.0	1.181	42.0	1.654	45.0	1.772	10.5	0.413	3.5	0.138
0320	32.0	1.260	45.0	1.772	48.0	1.890	10.5	0.413	4.5	0.177
0330	33.0	1.299	46.0	1.811	50.0	1.969	11.0	0.433	5.0	0.197
0350	35.0	1.378	48.0	1.890	52.0	2.047	11.0	0.433	5.0	0.197
0380	38.0	1.496	52.0	2.047	55.0	2.165	10.3	0.406	4.3	0.169
0400	40.0	1.575	55.0	2.165	58.0	2.283	10.8	0.425	4.8	0.189
0430	43.0	1.693	59.0	2.323	62.0	2.441	12.0	0.472	2.5	0.098
0450	45.0	1.772	59.0	2.323	64.0	2.520	11.6	0.457	2.2	0.087
0480	48.0	1.890	65.0	2.559	68.4	2.693	11.6	0.457	2.2	0.087
0500	50.0	1.969	64.0	2.520	69.3	2.728	11.6	0.457	2.2	0.087
0530	53.0	2.087	69.0	2.717	72.3	2.846	12.3	0.484	2.5	0.098
0550	55.0	2.165	71.0	2.795	75.4	2.969	13.3	0.524	2.5	0.098
0580	58.0	2.283	75.5	2.972	78.4	3.087	13.3	0.524	3.5	0.138
0600	60.0	2.362	75.0	2.953	80.4	3.165	13.3	0.524	2.5	0.098
0650	65.0	2.559	81.5	3.209	85.4	3.362	13.0	0.512	3.2	0.126
0680	68.0	2.677	87.0	3.425	91.5	3.602	13.7	0.539	3.7	0.146
0700	70.0	2.756	87.0	3.425	92.0	3.622	13.0	0.512	3.7	0.146
0750	75.0	2.953	91.0	3.583	99.0	3.898	14.0	0.551	3.2	0.126
0800	80.0	3.150	100.0	3.937	104.0	4.094	15.0	0.591	4.7	0.185
0850	85.0	3.346	102.0	4.016	109.0	4.291	14.8	0.583	4.5	0.177
0900	90.0	3.543	110.0	4.331	114.0	4.488	14.8	0.583	3.0	0.118
0950	95.0	3.740	116.0	4.567	120.3	4.736	15.8	0.622	4.0	0.157
1000	100.0	3.937	119.0	4.685	123.3	4.854	15.8	0.622	4.0	0.157

Stationary Face

S02U

Stock code: N-S02U-xxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q



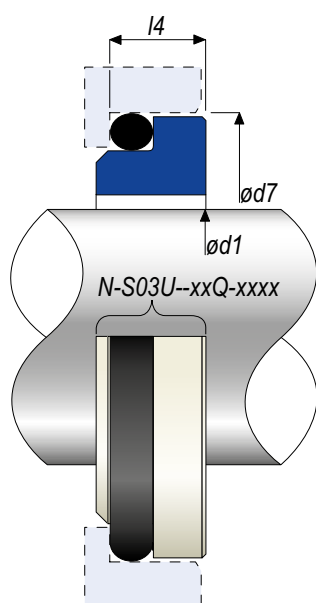
Size	d1		d7		d8		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	23.0	0.906	3.0	0.118	10.0	0.394
0140	14.0	0.551	25.0	0.984	3.0	0.118	10.0	0.394
0160	16.0	0.630	27.0	1.063	3.0	0.118	10.0	0.394
0180	18.0	0.709	33.0	1.299	3.0	0.118	11.5	0.453
0200	20.0	0.787	35.0	1.378	3.0	0.118	11.5	0.453
0220	22.0	0.866	37.0	1.457	3.0	0.118	11.5	0.453
0240	24.0	0.945	39.0	1.535	3.0	0.118	11.5	0.453
0250	25.0	0.984	40.0	1.575	3.0	0.118	11.5	0.453
0280	28.0	1.102	43.0	1.693	3.0	0.118	11.5	0.453
0300	30.0	1.181	45.0	1.772	3.0	0.118	11.5	0.453
0320	32.0	1.260	48.0	1.890	3.0	0.118	11.5	0.453
0330	33.0	1.299	48.0	1.890	3.0	0.118	11.5	0.453
0350	35.0	1.378	50.0	1.969	3.0	0.118	11.5	0.453
0380	38.0	1.496	56.0	2.205	4.0	0.157	14.0	0.551
0400	40.0	1.575	58.0	2.283	4.0	0.157	14.0	0.551
0430	43.0	1.693	61.0	2.402	4.0	0.157	14.0	0.551
0450	45.0	1.772	63.0	2.480	4.0	0.157	14.0	0.551
0480	48.0	1.890	66.0	2.598	4.0	0.157	14.0	0.551
0500	50.0	1.969	70.0	2.756	4.0	0.157	15.0	0.591
0530	53.0	2.087	73.0	2.875	4.0	0.157	15.0	0.591
0550	55.0	2.165	75.0	2.953	4.0	0.157	15.0	0.591
0580	58.0	2.283	78.0	3.071	4.0	0.157	15.0	0.591
0600	60.0	2.362	80.0	3.150	4.0	0.157	15.0	0.591
0650	65.0	2.559	85.0	3.346	4.0	0.157	15.0	0.591
0680	68.0	2.677	90.0	3.543	4.0	0.157	18.0	0.709
0700	70.0	2.756	92.0	3.622	4.0	0.157	18.0	0.709
0750	75.0	2.953	97.0	3.819	4.0	0.157	18.0	0.709
0800	80.0	3.150	105.0	4.134	4.0	0.157	18.2	0.717
0850	85.0	3.346	110.0	4.331	4.0	0.157	18.2	0.717
0900	90.0	3.543	115.0	4.528	4.0	0.157	18.2	0.717
0950	95.0	3.740	120.0	4.724	4.0	0.157	17.2	0.677
1000	100.0	3.937	125.0	4.921	4.0	0.157	17.2	0.677
1100	110.0	4.330	140.3	5.524	5.0	0.197	20.0	0.787
1200	120.0	4.724	150.3	5.917	5.0	0.197	20.0	0.787



S03U

Stock code: N-S03U-xxxxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q



Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	21.0	0.827	6.6	0.260
0120	12.0	0.472	23.0	0.906	6.6	0.260
0140	14.0	0.551	25.0	0.984	6.6	0.260
0160	16.0	0.630	27.0	1.063	6.6	0.260
0180	18.0	0.709	33.0	1.299	7.5	0.295
0200	20.0	0.787	35.0	1.378	7.5	0.295
0220	22.0	0.866	37.0	1.457	7.5	0.295
0240	24.0	0.945	39.0	1.535	7.5	0.295
0250	25.0	0.984	40.0	1.575	7.5	0.295
0280	28.0	1.102	43.0	1.693	7.5	0.295
0300	30.0	1.181	45.0	1.772	7.5	0.295
0320	32.0	1.260	48.0	1.890	7.5	0.295
0330	33.0	1.299	48.0	1.890	7.5	0.295
0350	35.0	1.378	50.0	1.969	7.5	0.295
0380	38.0	1.496	56.0	2.205	9.0	0.354
0400	40.0	1.575	58.0	2.283	9.0	0.354
0430	43.0	1.693	61.0	2.402	9.0	0.354
0450	45.0	1.772	63.0	2.480	9.0	0.354
0480	48.0	1.890	66.0	2.598	9.0	0.354
0500	50.0	1.969	70.0	2.756	9.5	0.374
0530	53.0	2.087	73.0	2.874	11.0	0.433
0550	55.0	2.165	75.0	2.953	11.0	0.433
0580	58.0	2.283	78.0	3.071	11.0	0.433
0600	60.0	2.362	80.0	3.150	11.0	0.433
0650	65.0	2.559	85.0	3.346	11.0	0.433
0680	68.0	2.677	90.0	3.543	11.3	0.445
0700	70.0	2.756	92.0	3.622	11.3	0.445
0750	75.0	2.953	97.0	3.819	11.3	0.445
0800	80.0	3.150	105.0	4.134	12.0	0.472
0850	85.0	3.346	110.0	4.331	14.0	0.551
0900	90.0	3.543	115.0	4.528	14.0	0.551
0950	95.0	3.740	120.0	4.724	14.0	0.551
1000	100.0	3.937	125.0	4.921	14.0	0.551



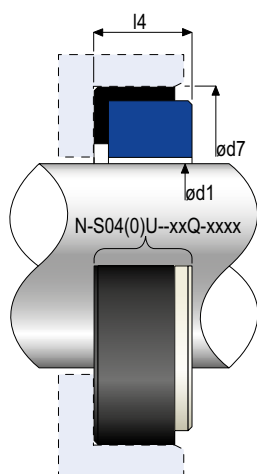
Stationary Face

S04U / S040U

Stock code: N-S04(0)U-xxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q

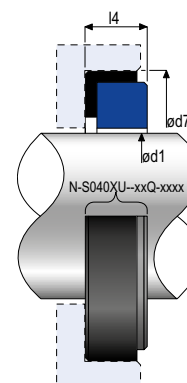


Size	d1		d7		l4 (S04U)		l4 (S040U)	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0120	12.0	0.472	23.0	0.906	8.6	0.339	6.6	0.260
0140	14.0	0.551	25.0	0.984	8.6	0.339	6.6	0.260
0160	16.0	0.630	27.0	1.063	8.6	0.339	6.6	0.260
0180	18.0	0.709	33.0	1.299	10.0	0.394	7.5	0.295
0200	20.0	0.787	35.0	1.378	10.0	0.394	7.5	0.295
0220	22.0	0.866	37.0	1.457	10.0	0.394	7.5	0.295
0240	24.0	0.945	39.0	1.535	10.0	0.394	7.5	0.295
0250	25.0	0.984	40.0	1.575	10.0	0.394	7.5	0.295
0280	28.0	1.102	43.0	1.693	10.0	0.394	7.5	0.295
0300	30.0	1.181	45.0	1.772	10.0	0.394	7.5	0.295
0320	32.0	1.260	48.0	1.890	10.0	0.394	7.5	0.295
0330	33.0	1.299	48.0	1.890	10.0	0.394	7.5	0.295
0350	35.0	1.378	50.0	1.969	10.0	0.394	7.5	0.295
0380	38.0	1.496	56.0	2.205	11.0	0.433	9.0	0.354
0400	40.0	1.575	58.0	2.283	11.0	0.433	9.0	0.354
0430	43.0	1.693	61.0	2.402	11.0	0.433	9.0	0.354
0450	45.0	1.772	63.0	2.480	11.0	0.433	9.0	0.354
0480	48.0	1.890	66.0	2.598	11.0	0.433	9.0	0.354
0500	50.0	1.969	70.0	2.756	13.0	0.512	9.5	0.374
0530	53.0	2.087	73.0	2.874	13.0	0.512	11.0	0.433
0550	55.0	2.165	75.0	2.953	13.0	0.512	11.0	0.433
0580	58.0	2.283	78.0	3.071	13.0	0.512	11.0	0.433
0600	60.0	2.362	80.0	3.150	13.0	0.512	11.0	0.433
0630	63.0	2.480	83.0	3.268	13.0	0.512	11.0	0.433
0650	65.0	2.559	85.0	3.346	13.0	0.512	11.0	0.433
0680	68.0	2.677	90.0	3.543	15.3	0.602	11.3	0.445
0700	70.0	2.756	92.0	3.622	15.3	0.602	11.3	0.445
0750	75.0	2.953	97.0	3.819	15.3	0.602	11.3	0.445
0800	80.0	3.150	105.0	4.134	15.7	0.618	11.1	0.472
0850	85.0	3.346	110.0	4.331	15.7	0.618	14.0	0.551
0900	90.0	3.543	115.0	4.528	15.7	0.618	14.0	0.551
0950	95.0	3.740	120.0	4.724	15.7	0.618	14.0	0.551
1000	100.0	3.937	125.0	4.921	15.7	0.618	14.0	0.551



S040XU

Stock code: N-S040XU-xxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q

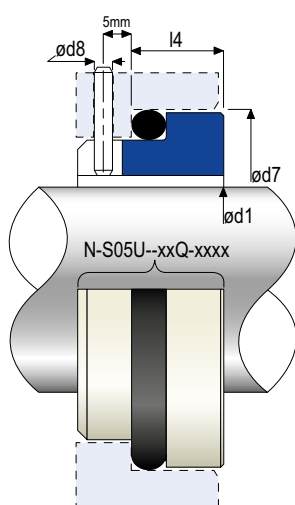
Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	38.0	1.496	7.5	0.295



S05U

Stock code: N-S05U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q



Size	d1		d7		d8		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	21.0	0.827	3.0	0.118	8.6	0.339
0120	12.0	0.472	23.0	0.906	3.0	0.118	8.6	0.339
0140	14.0	0.551	25.0	0.984	3.0	0.118	8.6	0.339
0160	16.0	0.630	27.0	1.063	3.0	0.118	8.6	0.339
0180	18.0	0.709	33.0	1.299	3.0	0.118	10.0	0.394
0200	20.0	0.787	35.0	1.378	3.0	0.118	10.0	0.394
0220	22.0	0.866	37.0	1.457	3.0	0.118	10.0	0.394
0240	24.0	0.945	39.0	1.535	3.0	0.118	10.0	0.394
0250	25.0	0.984	40.0	1.575	3.0	0.118	10.0	0.394
0280	28.0	1.102	43.0	1.693	3.0	0.118	10.0	0.394
0300	30.0	1.181	45.0	1.772	3.0	0.118	10.0	0.394
0320	32.0	1.260	48.0	1.890	3.0	0.118	10.0	0.394
0330	33.0	1.299	48.0	1.890	3.0	0.118	10.0	0.394
0350	35.0	1.378	50.0	1.969	3.0	0.118	10.0	0.394
0380	38.0	1.496	56.0	2.205	4.0	0.157	11.0	0.433
0400	40.0	1.575	58.0	2.283	4.0	0.157	11.0	0.433
0430	43.0	1.693	61.0	2.402	4.0	0.157	11.0	0.433
0450	45.0	1.772	63.0	2.480	4.0	0.157	11.0	0.433
0480	48.0	1.890	66.0	2.598	4.0	0.157	11.0	0.433
0500	50.0	1.969	70.0	2.756	4.0	0.157	13.0	0.512
0530	53.0	2.087	73.0	2.874	4.0	0.157	13.0	0.512
0550	55.0	2.165	75.0	2.953	4.0	0.157	13.0	0.512
0580	58.0	2.283	78.0	3.071	4.0	0.157	13.0	0.512
0600	60.0	2.362	80.0	3.150	4.0	0.157	13.0	0.512
0630	63.0	2.480	83.0	3.268	4.0	0.157	13.0	0.512
0650	65.0	2.559	85.0	3.346	4.0	0.157	13.0	0.512
0680	68.0	2.677	90.0	3.543	4.0	0.157	15.3	0.602
0700	70.0	2.756	92.0	3.622	4.0	0.157	15.3	0.602
0750	75.0	2.953	97.0	3.819	4.0	0.157	15.3	0.602
0800	80.0	3.150	105.0	4.134	4.0	0.157	15.7	0.618
0850	85.0	3.346	110.0	4.331	4.0	0.157	15.7	0.618
0900	90.0	3.543	115.0	4.528	4.0	0.157	15.7	0.618
0950	95.0	3.740	120.0	4.724	4.0	0.157	15.7	0.618
1000	100.0	3.937	125.0	4.921	4.0	0.157	15.7	0.618

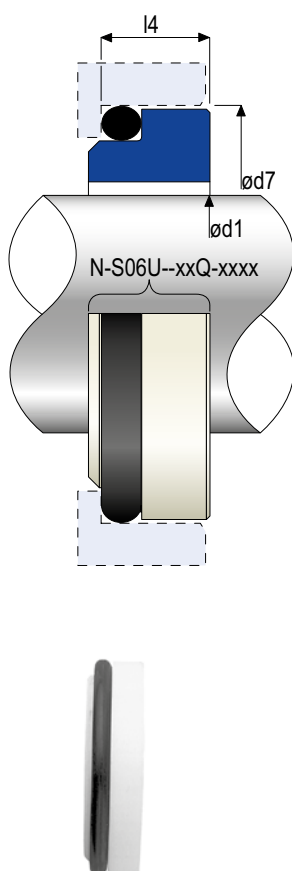


Stationary Face

S06U

Stock code: N-S06U-xxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q



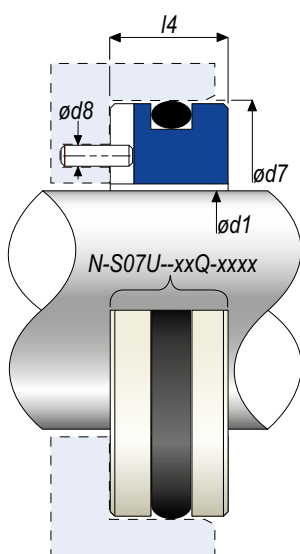
Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	21.0	0.827	8.6	0.339
0120	12.0	0.472	23.0	0.906	8.6	0.339
0140	14.0	0.551	25.0	0.984	8.6	0.339
0160	16.0	0.630	27.0	1.063	8.6	0.339
0180	18.0	0.709	33.0	1.299	10.0	0.394
0200	20.0	0.787	35.0	1.378	10.0	0.394
0220	22.0	0.866	37.0	1.457	10.0	0.394
0240	24.0	0.945	39.0	1.535	10.0	0.394
0250	25.0	0.984	40.0	1.575	10.0	0.394
0280	28.0	1.102	43.0	1.693	10.0	0.394
0300	30.0	1.181	45.0	1.772	10.0	0.394
0320	32.0	1.260	48.0	1.890	10.0	0.394
0330	33.0	1.299	48.0	1.890	10.0	0.394
0350	35.0	1.378	50.0	1.969	10.0	0.394
0380	38.0	1.496	56.0	2.205	11.0	0.433
0400	40.0	1.575	58.0	2.283	11.0	0.433
0430	43.0	1.693	61.0	2.402	11.0	0.433
0450	45.0	1.772	63.0	2.480	11.0	0.433
0480	48.0	1.890	66.0	2.598	11.0	0.433
0500	50.0	1.969	70.0	2.756	13.0	0.512
0530	53.0	2.087	73.0	2.874	13.0	0.512
0550	55.0	2.165	75.0	2.953	13.0	0.512
0580	58.0	2.283	78.0	3.071	13.0	0.512
0600	60.0	2.362	80.0	3.150	13.0	0.512
0630	63.0	2.480	83.0	3.268	13.0	0.512
0650	65.0	2.559	85.0	3.346	13.0	0.512
0680	68.0	2.677	90.0	3.543	15.3	0.602
0700	70.0	2.756	92.0	3.622	15.3	0.602
0750	75.0	2.953	97.0	3.819	15.3	0.602
0800	80.0	3.150	105.0	4.134	15.7	0.618
0850	85.0	3.346	110.0	4.331	15.7	0.618
0900	90.0	3.543	115.0	4.528	15.7	0.618
0950	95.0	3.740	120.0	4.724	15.7	0.618
1000	100.0	3.937	125.0	4.921	15.7	0.618



S07U

Stock code: N-S07U-xxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	Q



Size	d1		d7		d8		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	24.6	0.969	3.0	0.118	8.7	0.344
0120	12.0	0.472	27.7	1.094	3.0	0.118	8.7	0.344
0127	12.7	0.500	27.7	1.094	3.0	0.118	8.7	0.344
0130	13.0	0.512	27.7	1.094	3.0	0.118	8.7	0.344
0140	14.0	0.551	30.9	1.219	3.0	0.118	10.3	0.406
0150	15.0	0.591	30.9	1.219	3.0	0.118	10.3	0.406
0158	15.8	0.625	30.9	1.219	3.0	0.118	10.3	0.406
0160	16.0	0.630	30.9	1.219	3.0	0.118	10.3	0.406
0180	18.0	0.709	34.1	1.344	3.0	0.118	10.3	0.406
0191	19.1	0.750	34.1	1.344	3.0	0.118	10.3	0.406
0200	20.0	0.787	35.7	1.406	3.0	0.118	10.3	0.406
0220	22.0	0.866	37.3	1.469	3.0	0.118	10.3	0.406
0222	22.2	0.875	37.3	1.469	3.0	0.118	10.3	0.406
0240	24.0	0.945	40.5	1.594	3.0	0.118	10.3	0.406
0250	25.0	0.984	40.5	1.594	3.0	0.118	10.3	0.406
0254	25.4	1.000	40.5	1.594	3.0	0.118	10.3	0.406
0280	28.0	1.102	47.6	1.875	3.5	0.138	12.0	0.472
0286	28.6	1.125	47.6	1.875	3.5	0.138	11.9	0.469
0300	30.0	1.181	50.8	2.000	3.5	0.138	12.0	0.472
0317	31.7	1.250	50.8	2.000	3.5	0.138	11.9	0.469
0320	32.0	1.260	50.8	2.000	3.5	0.138	12.0	0.472
0330	33.0	1.299	53.9	2.125	3.5	0.138	12.0	0.472
0349	34.9	1.375	53.9	2.125	3.5	0.138	11.9	0.469
0350	35.0	1.378	53.9	2.125	3.5	0.138	11.9	0.469
0380	38.0	1.496	57.1	2.250	3.5	0.138	11.9	0.469
0381	38.1	1.500	57.1	2.250	3.5	0.138	11.9	0.469
0400	40.0	1.575	60.3	2.375	3.5	0.138	12.0	0.472
0412	41.2	1.625	60.3	2.375	3.5	0.138	11.9	0.469
0420	42.0	1.654	63.5	2.500	3.5	0.138	12.0	0.472
0430	43.0	1.693	63.5	2.500	3.5	0.138	12.0	0.472
0444	44.4	1.750	63.5	2.500	3.5	0.138	11.9	0.469
0450	45.0	1.772	63.5	2.500	3.5	0.138	12.0	0.472
0476	47.6	1.875	66.6	2.625	3.5	0.138	11.9	0.469
0480	48.0	1.890	66.6	2.625	3.5	0.138	12.0	0.472
0500	50.0	1.969	69.8	2.750	3.5	0.138	13.5	0.531
0508	50.8	2.000	69.8	2.750	3.5	0.138	13.5	0.531
0530	53.0	2.087	73.0	2.875	3.5	0.138	13.5	0.531
0539	53.9	2.125	73.0	2.875	3.5	0.138	13.5	0.531
0550	55.0	2.165	76.2	3.000	3.5	0.138	13.5	0.531
0571	57.1	2.250	76.2	3.000	3.5	0.138	13.5	0.531
0600	60.0	2.362	79.3	3.125	3.5	0.138	13.5	0.531
0603	60.3	2.375	79.3	3.125	3.5	0.138	13.5	0.531
0630	63.0	2.480	82.5	3.250	3.5	0.138	13.5	0.531
0635	63.5	2.500	82.5	3.250	3.5	0.138	13.5	0.531
0650	65.0	2.559	92.1	3.625	4.5	0.177	15.9	0.626
0666	66.6	2.625	92.1	3.625	4.5	0.177	15.9	0.626
0698	69.8	2.750	95.2	3.750	4.5	0.177	15.9	0.626
0700	70.0	2.756	95.2	3.750	4.5	0.177	15.9	0.626
0730	73.0	2.875	98.4	3.875	4.5	0.177	15.9	0.626
0750	75.0	2.953	101.6	4.000	4.5	0.177	15.9	0.626
0762	76.2	3.000	101.6	4.000	4.5	0.177	15.9	0.626
0794	79.4	3.125	111.1	4.375	6.0	0.236	19.9	0.783
0826	82.6	3.250	114.3	4.500	6.0	0.236	19.9	0.783
0857	85.7	3.375	117.5	4.625	6.0	0.236	19.9	0.783
0889	88.9	3.500	120.6	4.750	6.0	0.236	19.9	0.783
0921	92.1	3.625	123.8	4.875	6.0	0.236	19.9	0.783
0953	95.3	3.750	127.0	5.000	6.0	0.236	19.9	0.783
0984	98.4	3.875	130.2	5.125	6.0	0.236	19.9	0.783
1016	101.6	4.000	133.3	5.250	6.0	0.236	19.9	0.783



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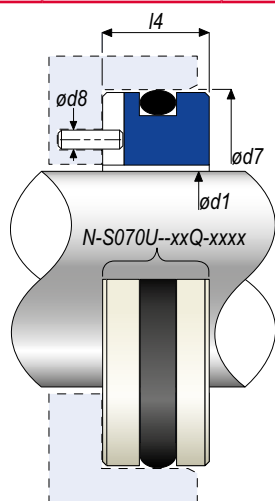
Stationary Face

S070U

Stock code: N-S070U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic or D - Silicon Carbide (RB) or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q

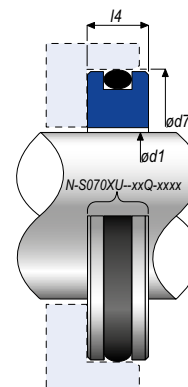


Size	d1		d7		d8		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	25.4	1.000	3.0	0.118	7.9	0.311
0158	15.8	0.625	31.7	1.250	3.0	0.118	10.3	0.406
0191	19.1	0.750	34.9	1.375	3.0	0.118	10.3	0.406
0222	22.2	0.875	38.1	1.500	3.0	0.118	10.3	0.406
0254	25.4	1.000	41.2	1.622	3.0	0.118	11.1	0.437
0286	28.6	1.125	44.4	1.750	3.5	0.138	11.1	0.437
0317	31.7	1.250	47.6	1.875	3.5	0.138	11.1	0.437
0349	34.9	1.375	50.8	2.000	3.5	0.138	11.1	0.437
0381	38.1	1.500	53.9	2.125	3.5	0.138	11.1	0.437
0412	41.2	1.625	60.3	2.375	3.5	0.138	12.7	0.500
0444	44.4	1.750	63.5	2.500	3.5	0.138	12.7	0.500
0444-B	44.4	1.750	58.7	2.312	3.5	0.138	12.7	0.500
0476	47.6	1.875	66.6	2.625	3.5	0.138	12.7	0.500
0508	50.8	2.000	69.8	2.750	3.5	0.138	12.7	0.500
0539	53.9	2.125	76.2	3.000	3.5	0.138	14.2	0.559
0571	57.1	2.250	79.3	3.125	3.5	0.138	14.2	0.559
0603	60.3	2.375	82.5	3.250	3.5	0.138	14.2	0.559
0635	63.5	2.500	85.7	3.375	3.5	0.138	14.2	0.559
0666	66.6	2.625	85.7	3.375	4.5	0.177	15.8	0.625
0698	69.8	2.750	88.9	3.500	4.5	0.177	15.8	0.625
0730	73.0	2.875	95.2	3.750	4.5	0.177	15.8	0.625
0762	76.2	3.000	98.4	3.875	4.5	0.177	15.8	0.625



S070XU

Stock code: N-S070XU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	E - Stainless Steel	Z - Viton (FPM)	Q

Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0254	25.4	1.000	41.2	1.622	6.5	0.256

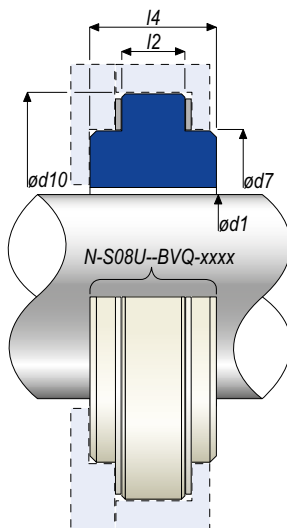


S08U

Stock code: N-S08U-xxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic	V - PTFE	Q



Size	d1		d7		d10		l4		l2	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0191	19.1	0.750	36.5	1.437	48.0	1.889	17.4	0.685	7.9	0.311
0222	22.2	0.875	39.7	1.563	51.0	2.007	17.4	0.685	7.9	0.311
0254	25.4	1.000	42.9	1.689	54.0	2.125	17.4	0.685	7.9	0.311
0286	28.6	1.125	46.0	1.811	60.0	2.362	26.9	1.059	11.1	0.437
0317	31.7	1.250	50.8	2.000	65.0	2.559	26.9	1.059	11.1	0.437
0349	34.9	1.375	53.9	2.125	68.0	2.677	26.9	1.059	11.1	0.437
0381	38.1	1.500	57.1	2.250	71.0	2.795	26.9	1.059	11.1	0.437
0400	40.0	1.575	62.2	2.448	76.2	3.000	26.1	1.027	11.1	0.437
0412	41.2	1.625	63.5	2.500	78.0	3.070	26.9	1.059	11.1	0.437
0444	44.4	1.750	66.6	2.625	81.0	3.188	26.9	1.059	11.1	0.437
0476	47.6	1.875	69.8	2.750	84.0	3.307	26.9	1.059	11.1	0.437
0508	50.8	2.000	73.0	2.875	87.0	3.425	26.9	1.059	11.1	0.437
0539	53.9	2.125	79.3	3.125	97.0	3.818	33.3	1.311	14.3	0.563
0571	57.1	2.250	82.5	3.250	100.0	3.937	33.3	1.311	14.3	0.563
0603	60.3	2.375	85.7	3.375	103.0	4.055	33.3	1.311	14.3	0.563
0635	63.5	2.500	88.9	3.500	106.0	4.173	33.3	1.311	14.3	0.563
0666	66.6	2.625	92.0	3.625	110.0	4.330	33.3	1.311	14.3	0.563
0698	69.8	2.750	95.2	3.750	113.0	4.448	33.3	1.311	14.3	0.563
0730	73.0	2.875	98.4	3.875	116.0	4.566	33.3	1.311	14.3	0.563
0762	76.2	3.000	100.0	3.937	117.0	4.606	33.3	1.311	14.3	0.563
0793	79.3	3.125	103.2	4.062	121.0	4.764	33.3	1.311	14.3	0.563
0825	82.5	3.250	107.8	4.244	125.0	4.921	34.3	1.350	14.3	0.563
0857	85.7	3.375	111.1	4.375	129.0	5.079	34.3	1.350	14.3	0.563
0889	88.9	3.500	114.3	4.500	132.0	5.197	34.3	1.350	14.3	0.563
0920	92.0	3.625	117.4	4.625	135.0	5.315	34.3	1.350	14.3	0.563
0952	95.2	3.750	120.6	4.750	138.0	5.433	34.3	1.350	14.3	0.563
1016	101.6	4.000	127.0	5.000	144.0	5.669	34.3	1.350	14.3	0.563

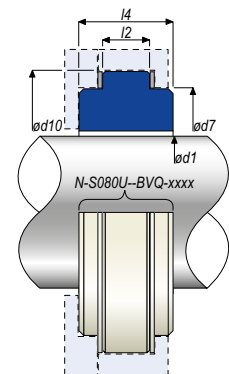


S080U



Stock code: N-S080U-xxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	B - Alumina Ceramic	V - PTFE	Q



Size	d1		d7		d10		l2		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0286	28.6	1.125	47.4	1.865	56.8	2.237	9.5	0.375	20.6	0.812
0349	34.9	1.375	53.7	2.115	66.1	2.604	9.5	0.375	22.2	0.875
0349-B	34.9	1.375	50.5	1.990	59.9	2.360	12.7	0.500	25.4	1.000
0444	44.4	1.750	66.4	2.615	78.8	3.104	9.5	0.375	22.2	0.875
0444-B	44.4	1.750	63.2	2.490	76.1	2.995	12.7	0.500	25.4	1.000



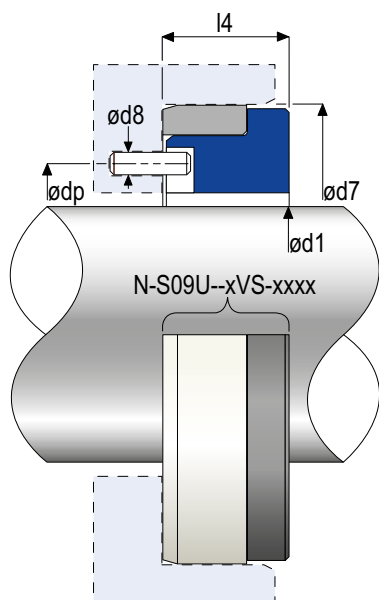
Stationary Face

S09U

Stock code: N-S09U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	D - Silicon Carbide (RB) or J - Sintered SiC	V - PTFE	S



Size	d1		d7		d8		dp		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0191	19.1	0.750	34.9	1.375	2.0	0.078	23.9	0.941	10.3	0.405
0222	22.2	0.875	38.1	1.500	2.0	0.078	27.0	1.062	10.3	0.405
0254	25.4	1.000	41.2	1.625	2.0	0.078	30.1	1.187	11.1	0.437
0286	28.6	1.125	44.4	1.750	2.0	0.078	33.3	1.313	11.1	0.437
0317	31.7	1.250	47.6	1.875	2.0	0.078	36.5	1.437	11.1	0.437
0349	34.9	1.375	50.8	2.000	2.0	0.078	39.7	1.563	11.1	0.437
0381	38.1	1.500	53.9	2.125	2.0	0.078	42.8	1.687	11.1	0.437
0412	41.2	1.625	60.3	2.375	3.0	0.118	47.6	1.875	12.7	0.500
0444	44.4	1.750	63.5	2.500	3.0	0.118	50.8	2.000	12.7	0.500
0476	47.6	1.875	66.6	2.625	3.0	0.118	54.0	2.125	12.7	0.500
0508	50.8	2.000	69.8	2.750	3.0	0.118	57.1	2.250	12.7	0.500
0539	53.9	2.125	76.2	3.000	3.0	0.118	60.3	2.375	14.3	0.563
0571	57.1	2.250	79.3	3.125	3.0	0.118	63.5	2.500	14.3	0.563
0603	60.3	2.375	82.5	3.250	3.0	0.118	66.7	2.625	14.3	0.563
0635	63.5	2.500	85.7	3.375	3.0	0.118	69.8	2.750	14.3	0.563
0666	66.6	2.625	85.7	3.375	3.0	0.118	73.0	2.875	15.9	0.625
0698	69.8	2.750	88.9	3.500	3.0	0.118	76.2	3.000	15.9	0.625
0730	73.0	2.875	95.2	3.750	3.0	0.118	79.3	3.125	15.9	0.625
0762	76.2	3.000	98.4	3.875	3.0	0.118	82.5	3.250	15.9	0.625
0793	79.3	3.125	101.6	4.000	3.0	0.118	85.7	3.375	19.8	0.779
0825	82.5	3.250	104.7	4.125	3.0	0.118	88.9	3.500	19.8	0.779
0857	85.7	3.375	107.9	4.250	3.0	0.118	92.1	3.625	19.8	0.779
0889	88.9	3.500	111.1	4.375	3.0	0.118	95.2	3.750	19.8	0.779
0920	92.0	3.625	114.3	4.500	3.0	0.118	98.4	3.875	19.8	0.779
0952	95.2	3.750	117.4	4.625	3.0	0.118	101.6	4.000	19.8	0.779
0984	98.4	3.875	120.6	4.750	3.0	0.118	104.8	4.125	19.8	0.779
1016	101.6	4.000	123.8	4.875	3.0	0.118	107.9	4.250	19.8	0.779

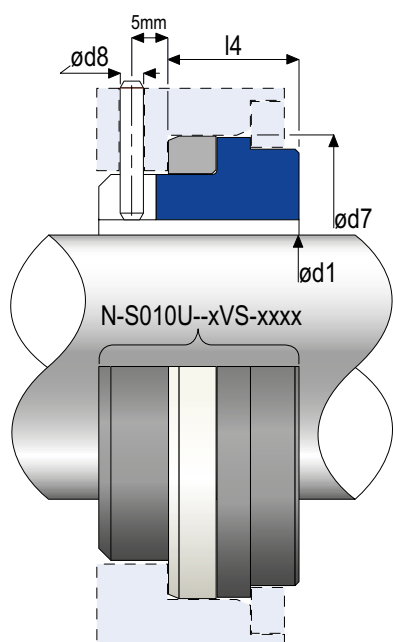


S010U

Stock code: N-S010U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
-	D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	V - PTFE or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	S



Size	d1		d7		d8		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	35.0	1.378	3.0	0.118	13.5	0.531
0220	22.0	0.866	37.0	1.457	3.0	0.118	13.5	0.531
0240	24.0	0.945	39.0	1.535	3.0	0.118	13.5	0.531
0250	25.0	0.984	40.0	1.575	3.0	0.118	13.0	0.511
0280	28.0	1.102	43.0	1.693	3.0	0.118	12.5	0.492
0300	30.0	1.181	45.0	1.772	3.0	0.118	12.0	0.472
0320	32.0	1.260	48.0	1.890	3.0	0.118	12.0	0.472
0330	33.0	1.299	48.0	1.890	3.0	0.118	12.0	0.472
0350	35.0	1.378	50.0	1.969	3.0	0.118	12.0	0.400
0380	38.0	1.496	56.0	2.205	4.0	0.157	13.0	0.511
0400	40.0	1.575	58.0	2.283	4.0	0.157	13.0	0.511
0430	43.0	1.693	61.0	2.402	4.0	0.157	13.0	0.511
0450	45.0	1.772	63.0	2.480	4.0	0.157	13.0	0.511
0480	48.0	1.890	66.0	2.598	4.0	0.157	13.0	0.511
0500	50.0	1.969	70.0	2.756	4.0	0.157	13.5	0.531
0530	53.0	2.087	73.0	2.874	4.0	0.157	13.5	0.531
0550	55.0	2.165	75.0	2.953	4.0	0.157	13.5	0.531
0580	58.0	2.283	78.0	3.071	4.0	0.157	13.5	0.531
0600	60.0	2.362	80.0	3.150	4.0	0.157	13.5	0.531
0630	63.0	2.480	83.0	3.268	4.0	0.157	13.5	0.531
0650	65.0	2.559	85.0	3.346	4.0	0.157	13.5	0.531
0680	68.0	2.677	90.0	3.543	4.0	0.157	13.5	0.531
0700	70.0	2.756	92.0	3.622	4.0	0.157	14.5	0.571
0750	75.0	2.953	97.0	3.819	4.0	0.157	14.5	0.571
0800	80.0	3.150	105.0	4.134	4.0	0.157	15.0	0.591
0850	85.0	3.346	110.0	4.331	4.0	0.157	15.0	0.591
0900	90.0	3.543	115.0	4.528	4.0	0.157	15.0	0.591
0950	95.0	3.740	120.0	4.724	4.0	0.157	15.0	0.591
1000	100.0	3.937	125.0	4.921	4.0	0.157	15.0	0.591

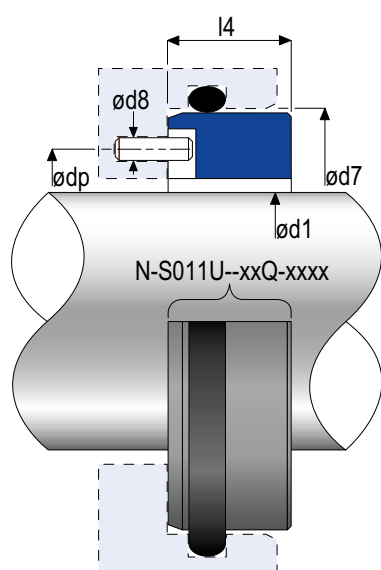


Stationary Face

S011U

Stock code: N-S011U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
-	D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	Q

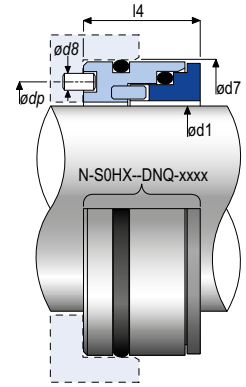


Size	d1		d7		d8		dp		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0127	12.7	0.500	25.6	1.008	2.5	0.098	19.8	0.779	7.9	0.311
0158	15.8	0.625	31.9	1.258	2.5	0.098	24.2	0.953	10.3	0.406
0191	19.1	0.750	35.1	1.383	2.5	0.098	27.7	1.093	10.3	0.406
0222	22.2	0.875	38.3	1.508	2.5	0.098	31.0	1.220	10.3	0.406
0254	25.4	1.000	41.5	1.633	2.5	0.098	34.1	1.343	11.1	0.439
0286	28.6	1.125	44.6	1.757	2.5	0.098	37.3	1.469	11.1	0.439
0317	31.7	1.250	47.8	1.883	2.5	0.098	40.5	1.594	11.1	0.439
0349	34.9	1.375	51.0	2.008	2.5	0.098	43.6	1.716	11.1	0.439
0349-B	34.9	1.375	60.5	2.382	4.0	0.157	51.6	2.056	12.7	0.500
0381	38.1	1.500	54.2	2.133	2.5	0.098	46.8	1.843	11.1	0.439
0412	41.2	1.625	60.5	2.382	4.0	0.157	51.6	2.056	12.7	0.500
0444	44.4	1.750	63.7	2.507	4.0	0.157	54.8	2.157	12.7	0.500
0476	47.6	1.875	66.9	2.632	4.0	0.157	57.9	2.280	12.7	0.500
0508	50.8	2.000	70.1	2.758	4.0	0.157	61.1	2.405	12.7	0.500
0539	53.9	2.125	76.4	3.007	5.0	0.197	65.9	2.594	14.3	0.564
0571	57.1	2.250	79.6	3.133	5.0	0.197	69.0	2.716	14.3	0.564
0603	60.3	2.375	82.7	3.257	5.0	0.197	72.2	2.843	14.3	0.564
0635	63.5	2.500	85.9	3.382	5.0	0.197	75.4	2.969	14.3	0.564
0666	66.6	2.625	85.9	3.382	5.0	0.197	77.0	3.031	15.9	0.627
0698	69.8	2.750	89.1	3.507	5.0	0.197	80.2	3.157	15.9	0.627
0730	73.0	2.875	95.5	3.758	5.0	0.197	84.9	3.343	15.9	0.627
0762	76.2	3.000	98.6	3.883	5.0	0.197	88.1	3.469	15.9	0.627
0793	79.3	3.125	101.8	4.007	5.0	0.197	91.3	3.594	19.8	0.781
0793-B	79.3	3.125	95.5	3.758	4.0	0.157	88.1	3.469	15.9	0.627
0825	82.5	3.250	105.0	4.134	5.0	0.197	94.4	3.716	19.8	0.781
0857	85.7	3.375	108.1	4.257	5.0	0.197	97.6	3.843	19.8	0.781
0889	88.9	3.500	111.3	4.383	5.0	0.197	100.8	3.969	19.8	0.781
0920	92.0	3.625	114.5	4.508	5.0	0.197	104.0	4.094	19.8	0.781
0952	95.2	3.750	117.7	4.633	5.0	0.197	107.1	4.217	19.8	0.781
0984	98.4	3.875	120.9	4.758	5.0	0.197	110.3	4.343	19.8	0.781
1000	100.0	3.937	128.9	4.758	4.0	0.157	112.1	4.412	17.6	0.696
1016	101.6	4.000	124.0	4.882	5.0	0.197	113.5	4.469	19.8	0.781



S0HX

Stock code: N-S0HX-xxxxx-xxxx

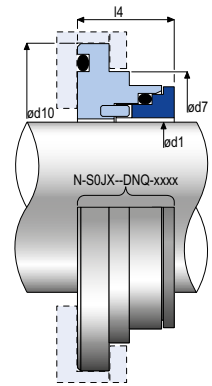


Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d7		d8		dp		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
-	D - Silicon Carbide (RB)	N - Neoprene or X - Nitrile (BUNA)	Q	0444	44.4	1.750	63.5	2.500	3.5	0.138	53.9	2.125	23.9	0.941
				0539	53.9	2.125	73.0	2.875	3.5	0.138	63.5	2.500	27.0	1.063
				0666	66.6	2.625	92.1	3.625	4.5	0.177	79.4	3.125	31.9	1.256



S0JX

Stock code: N-S0JX-xxxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d7		d10		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
-	D - Silicon Carbide (RB)	N - Neoprene or U - FEP	Q	0539	53.9	2.125	79.5	3.130	95.3	3.750	27.0	1.063
				0666	66.6	2.625	91.8	3.614	107.9	4.250	32.5	1.280
				0857	85.7	3.375	111.0	4.370	127.0	5.000	36.5	1.437



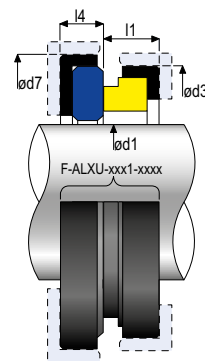
Pump Specific

ALXU

Seal suits pump type:

MRPX, HMRPX 514, 714, 718, 818

Stock code: F-ALXU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code		d1		d3		d7		l1		l4		
					Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
A - Carbon	J - Sintered SIC	Y - EPR (EPDM)	1		0400	40.0	1.575	60.0	2.362	64.0	2.520	11.4	0.449	9.1	0.358
					0500	50.0	1.969	70.0	2.756	74.0	2.913	11.0	0.433	9.3	0.366
					0600	60.0	2.362	82.6	3.252	82.6	3.252	10.0	0.394	8.0	0.315



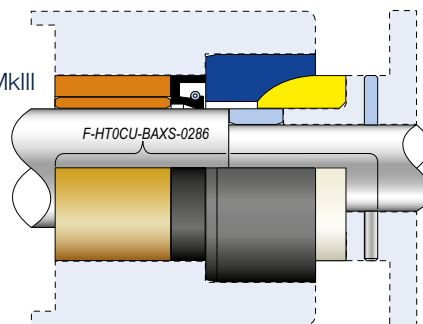
HT0CU



Seal suits pump type:

Osborne Craig (Hayward Tyler) Side Entry Mixer MkIII

Stock code: F-HT0CU-xxxx-0286



Rotary Face	Stationary Face	Elastomer	Build Code	d1		
B - Alumina Ceramic	A - Carbon	X - Nitrile (BUNA)	S	Size	Metric	Inches
				0286	28.6	1.125



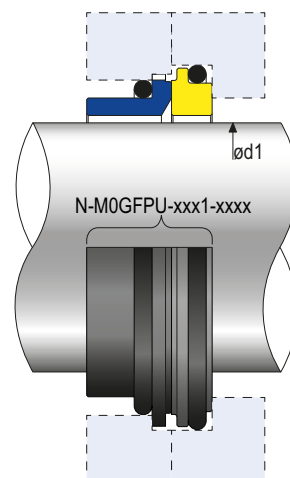
M0GFPU

Seal suits:

Godwin Fire Pump

Stock code: N-M0GFPU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1	
D - Silicon Carbide (RB) or J - Sintered SiC	A - Carbon	X - Nitrile (BUNA)	1	0440	Metric 44.0	Imperial 1.732



S0ZU

Seal suits pump type:
Contherm

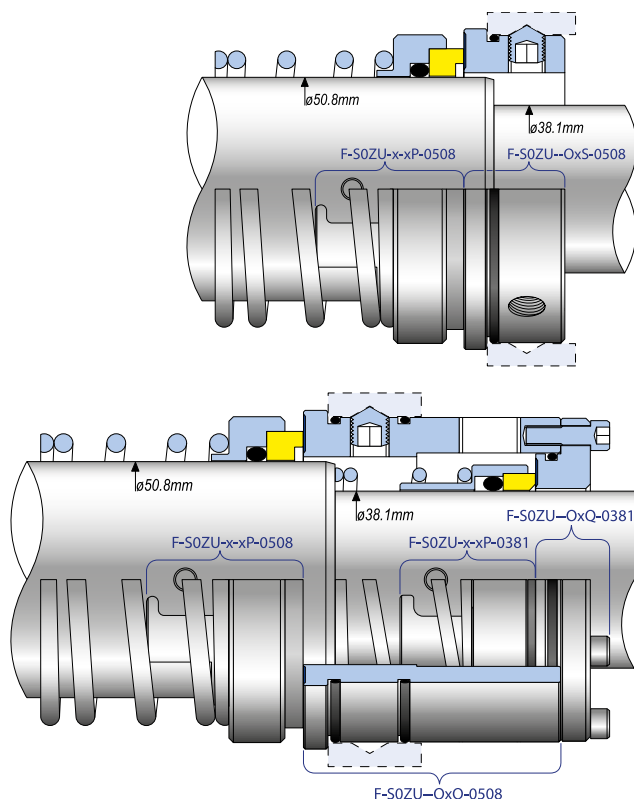


Parts are available in the following materials:

Rotary Face	Stationary Face	Elastomer
A - Carbon or G - Tungsten Carbide (2.000" Only)	O - Chrome Oxide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)

Springs available using following stock codes:

- N-S0Z-COIL-0508
- N-S0Z-COIL-0381



S0ZX

Why upgrade?

- Resiliently mounted faces improve reliability and allow spare faces to be fitted
- Pin driven rotary and stationary faces improve performance

Seal suits pump type:
Contherm

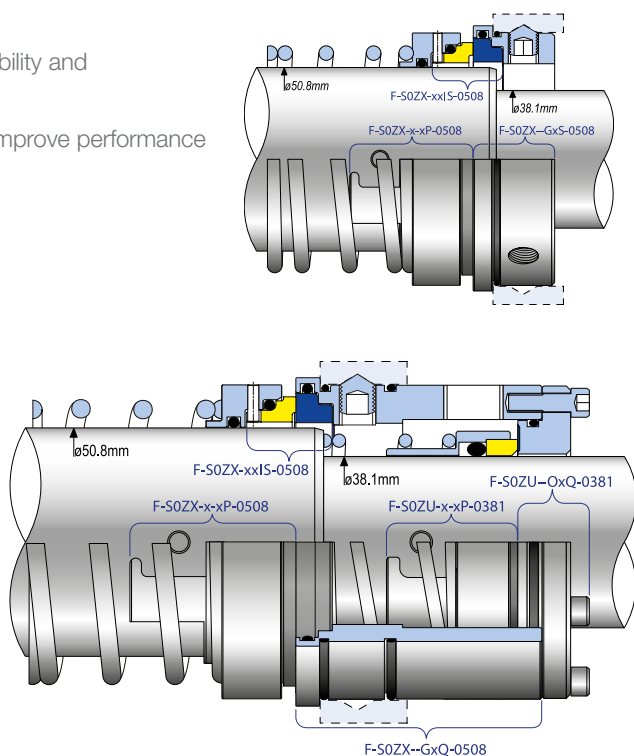


Parts are available in the following materials

Rotary Face	Stationary Face	Elastomer
A - Carbon or G - Tungsten Carbide	G - Tungsten Carbide	I - AES Elast

Springs available using following stock codes:

- N-S0Z-COIL-0508
- N-S0Z-COIL-0381



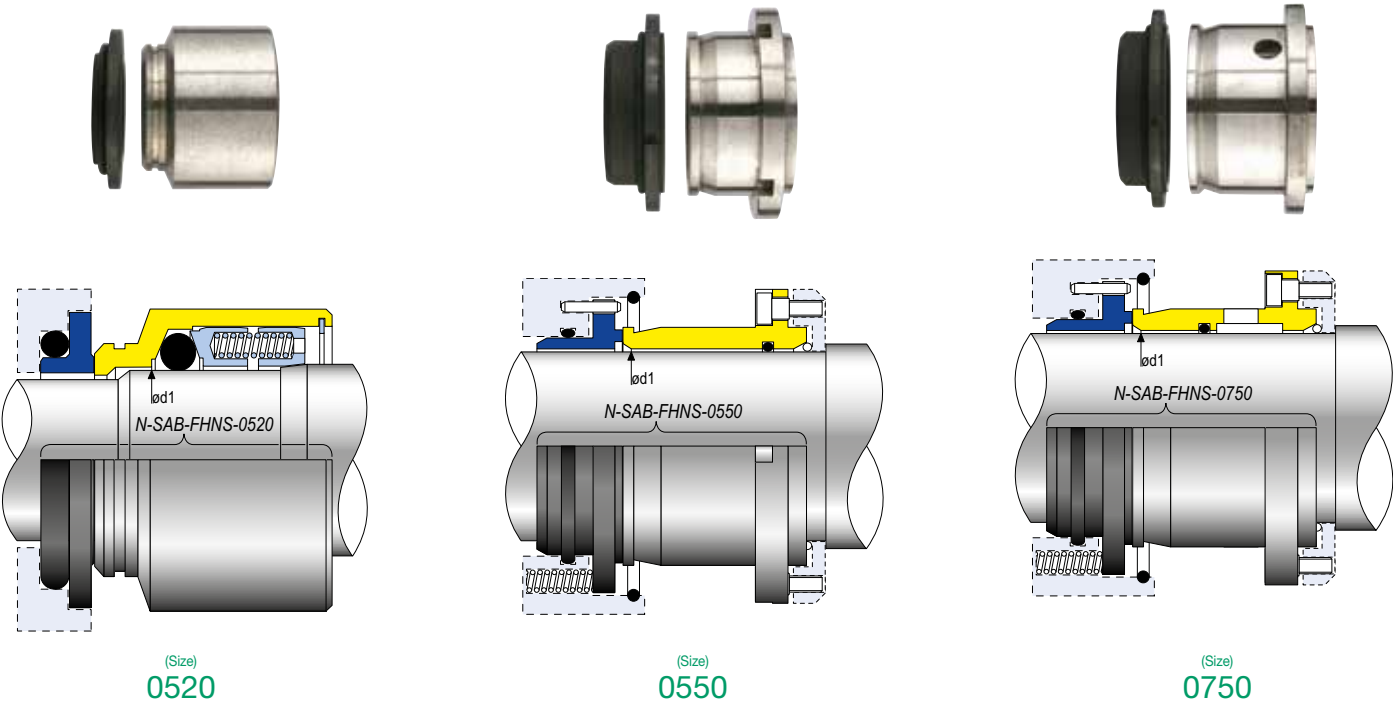
Pump Specific

SAB

Seal suits pump type:
Sabroe Compressors

Stock code: N-SAB-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code	d1		
F - Ni-Resist	A - Carbon or H - Antimony Carbon	N - Neoprene	S	Size	Metric	Imperial
				0520	52.0	2.047
				0550	55.0	2.165
				0750	75.0	2.953



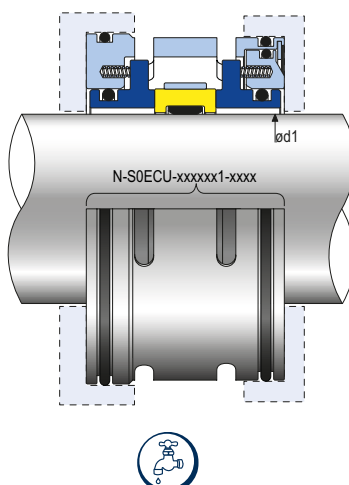
S0ECU

Seal suits pump type:

EMU Pumps

Stock code: S0ECU-XXXXXX-XXXX

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code	Size	d1
D - Silicon Carbide (RB) or G - Tungsten Carbide	D - Silicon Carbide (RB) or G - Tungsten Carbide	Z - Viton (FPM)	D - Silicon Carbide (RB) or G - Tungsten Carbide	D - Silicon Carbide (RB) or G - Tungsten Carbide	Z - Viton (FPM)	1	0350	35.0 1.378
							0500	50.0 1.969
							0750	75.0 2.953



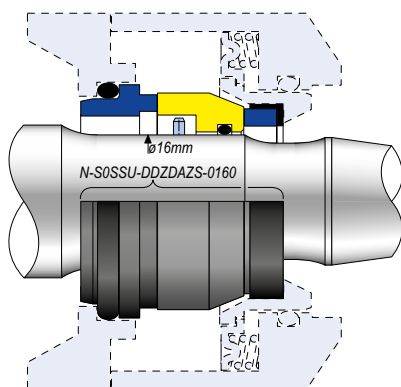
S0SSU

Seal suits pump type:

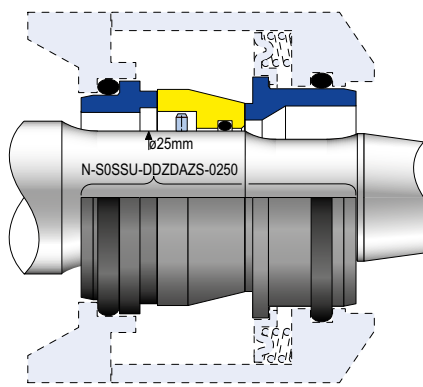
Sarlin Pumps

Stock code: S0SSU-XXXXXX-XXXX

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code	Size	d1
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	Z - Viton (FPM)	D - Silicon Carbide (RB)	A - Carbon	Z - Viton (FPM)	S	0160	16.0 0.630
							0250	25.0 0.984



(Size)
0160



(Size)
0250

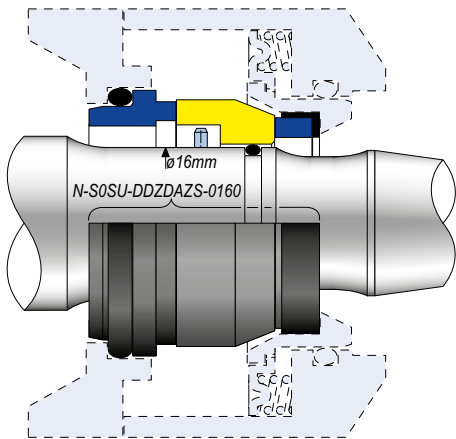
S0SU

Seal suits pump type:

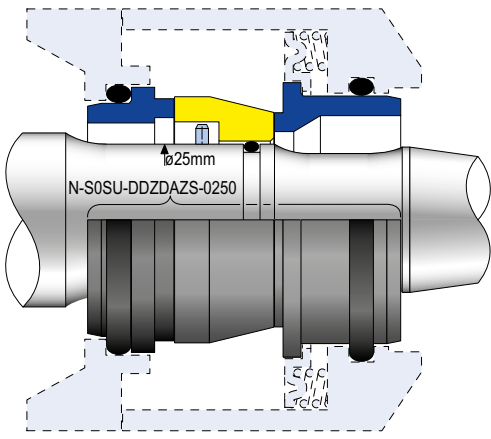
Sarlin Pumps

Stock code: S0SU-XXXXXX-XXXX

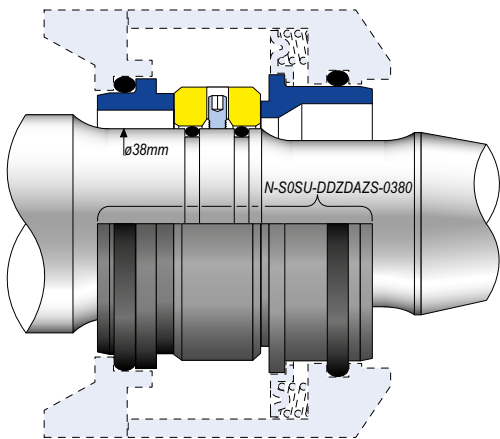
Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code	Size	d1	
								Metric	Imperial
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	Z - Viton (FPM)	D - Silicon Carbide (RB)	A - Carbon	Z - Viton (FPM)	S	0160	16.0	0.630
							0250	25.0	0.984
							0380	38.0	1.496



(Size)
0160



(Size)
0250



(Size)
0380



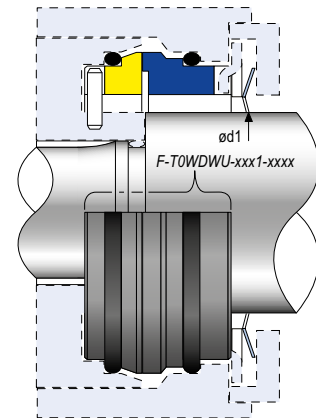
TOWDWU (Internal Seal)



Stock code: F-TOWDWU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide or J - Sintered SiC	A - Carbon or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0310	31.0	1.220
0400	40.0	1.575
0480	48.0	1.889
0580	58.0	2.283
0750	75.0	2.953

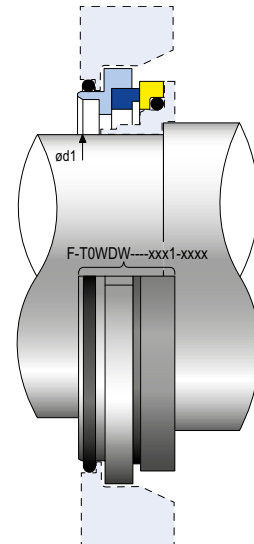


TOWDWU (External Seal)

Stock code: F-TOWDWU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	A - Carbon	Y - EPR (EPDM)	1

Size	d1	
	Metric	Inches
0310	31.0	1.220
0400	40.0	1.575
0580	58.0	2.283
0750	75.0	2.953



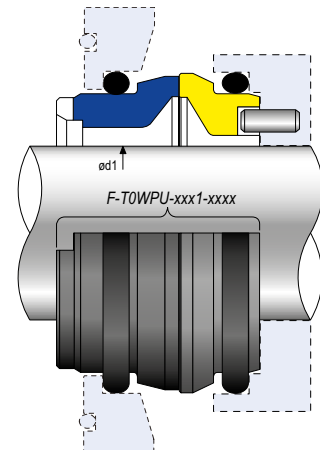
TOWPU



Stock code: F-TOWPU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide or J - Sintered SiC	A - Carbon or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0250	25.0	0.984
0350	35.0	1.378

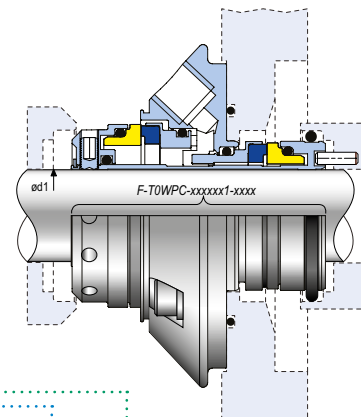


Pump Specific

T0WPC

Why upgrade?

- Unitised / plug in design reduces fitting time and ensures correct installation
- Reduced downtime by improved performance utilising hydraulically balanced seal design
- Improved cooling through directed barrier fluid flow



Stock code: F-T0WPC-xxxxxx1-xxxx

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code	d1		
G - Tungsten Carbide or J - Sintered SiC	A - Carbon or G - Tungsten Carbide	I - AES Elast or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	A - Carbon	G - Tungsten Carbide or J - Sintered SiC	Y - EPR (EPDM) or Z - Viton (FPM)	1	Size	Metric	Inches
							0250	25.0	0.984
							0350	35.0	1.378

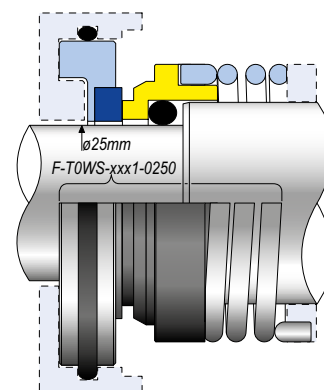


T0WS



Stock code: F-T0WS-xxxx-0250

Rotary Face	Stationary Face	Elastomer	Build Code	d1		
A - Carbon	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1	Size	Metric	Inches
				0250	25.0	0.984



T05 Range (Flygt Pumps)

Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
2024 & Ready 24 (Pump)	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-01	N-T05-BEARING-11
2040, 2056, 2102.220	N-T05CT-GDX1-0220-UL (Upper seal) N-T05FT-GDX1-0220-UL (Upper seal)	N-T05CT-GDX1-0220-UL (Lower seal) N-T05FT-GDX1-0220-UL (Lower seal)	N-T05-KIT-34	N-T05-BEARING-15
2050 (Pump)	N-T05D-DDXDAX1-0150		N-T05-KIT-37	N-T05-BEARING-26
2052 & Ready 12 (Pump)	N-T05D-DDXDAX1-0150		N-T05-KIT-36	N-T05-BEARING-26
2060 (Pump)	N-T05GT-GDX1-0200-UL (Upper seal) N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL (Lower seal) N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-51	N-T05-BEARING-33
2066 (Pump)	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-01	N-T05-BEARING-11
2070 (Pump)	N-T05ET-GDX1-0220-UL (Upper seal)	N-T05ET-GDX1-0220-UL (Lower seal)	N-T05-KIT-32	N-T05-BEARING-15
2071 (Pump)	N-T05FT-GDX1-0220-UL (Upper seal)	N-T05FT-GDX1-0220-UL (Lower seal)	N-T05-KIT-06	N-T05-BEARING-22
2075.062 080 090 342 360 & 370	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-02	N-T05-BEARING-13
2075.050 100 322 323 324 333 334 380 381 480 490 590 690 & 790	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-02 & N-T05-KIT-02A	N-T05-BEARING-13
2082 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-52	N-T05-BEARING-42
2084 (Pump)	N-T05K-ADX1-0350-U	N-T05K-GGXS-0350-LP	N-T05-KIT-18	N-T05-BEARING-31
2090 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-15	N-T05-BEARING-16
2095 (Pump)	N-T05ET-GDX1-0220-UL (Upper seal)	N-T05ET-GDX1-0220-UL (Lower seal)	N-T05-KIT-05	N-T05-BEARING-11
2101 (Pump)	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-05	N-T05-BEARING-11
2102.040 (Pump)	N-T05ET-GDX1-0220-UL (Upper seal)	N-T05ET-GDX1-0220-UL (Lower seal)	N-T05-KIT-05	N-T05-BEARING-15
2102.041 & 210	N-T05CT-GDX1-0220-UL (Upper seal) N-T05FT-GDX1-0220-UL (Upper seal)	N-T05CT-GDX1-0220-UL (Lower seal) N-T05FT-GDX1-0220-UL (Lower seal)	N-T05-KIT-05	N-T05-BEARING-15
2125 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-14	N-T05-BEARING-16
2125.220 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-15	N-T05-BEARING-16
2135 (Pump)	N-T05K-ADX1-0350-U	N-T05LT-GDX1-0350-L	N-T05-KIT-53	N-T05-BEARING-43
2140 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-14	N-T05-BEARING-16
2151.010 (Pump)	N-T05K-ADX1-0350-U	N-T05KS-GGX1-0350-L	N-T05-KIT-17	N-T05-BEARING-18
2151.011 & 050	N-T05K-ADX1-0350-U	N-T05LT-GDX1-0350-L	N-T05-KIT-17	N-T05-BEARING-18
2201.010 (Pump)	N-T05O-ABX1-0450-U	N-T05KS-GGX1-0350-L	N-T05-KIT-22 & N-T05-KIT-22A	N-T05-BEARING-19
2201.011 MT & HT	N-T05O-ABX1-0450-U	N-T05NT-GGX1-0350-L	N-T05-KIT-22	N-T05-BEARING-19
2201.011 LT (Pump)	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	N-T05-KIT-22	N-T05-BEARING-19
2201.320 430 480 590 & 690	N-T05N-ABX1-0450-U	N-T05NT-GGX1-0350-L	N-T05-KIT-22 & N-T05-KIT-22A	N-T05-BEARING-19
2250 & 2290	N-T05Q-ABX1-0600-U	N-T05P-GDX1-0600-L	N-T05-KIT-25	N-T05-BEARING-20
2400 (Pump)	N-T05R-GDX1-0600-U	N-T05R-GGX1-0600-L	N-T05-KIT-29	N-T05-BEARING-21
2610 (Pump)	N-T05VC-GGXABX1-0200		N-T05-KIT-54	N-T05-BEARING-33

Pump Specific

Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
2620 (Pump)	N-T05VC-GGXABX1-0200		N-T05-KIT-55	N-T05-BEARING-44
2630 & 2640	N-T05VC-GGXABX1-0200		N-T05-KIT-56	N-T05-BEARING-45
2660 (Pump)	N-T05VC-GGXABXS-0250		N-T05-KIT-78	N-T05-BEARING-48
2670 (Pump)	N-T05VC-GGXABX1-0350		N-T05-KIT-57	N-T05-BEARING-40
2730 2740 & 2750	N-T05ZS-ADX1-0250-U (Upper seal)	N-T05Z-GGX1-0240-L (Lower seal)	N-T05-KIT-79 & N-T05-KIT-79A	N-T05-BEARING-49
3041.171 & 180	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL (Lower seal)	N-T05-KIT-09	N-T05-BEARING-03
		N-T05GTX-GGX1-0200-L (No set screw alternative)		
		N-T05HT-GDX1-0200-L		
3041.281 (Pump)	N-T05GT-GDX1-0200-UL or N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-09	N-T05-BEARING-03
3045 (Pump)	N-B01-ABX1-0150C	N-B01-DDX1-0150C	N-T05-KIT-58	N-T05-BEARING-46
3050 (Pump)	N-T05HT-GDX1-0200-L	N-T05HT-GDX1-0200-L	N-T05-KIT-59	N-T05-BEARING-11
3057.091 & 181	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-13	N-T05-BEARING-22
		N-T05HT-GDX1-0200-L		
3057.180 (Pump)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-13	N-T05-BEARING-02
		N-T05HT-GDX1-0200-L		
3060 (Pump)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-38	N-T05-BEARING-33
3065 (Pump)	N-T05HT-GDX1-0200-L	N-T05HT-GDX1-0200-L	N-T05-KIT-59	N-T05-BEARING-11
3066 (Pump)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-12	N-T05-BEARING-01
		N-T05HT-GDX1-0200-L		
3067.090, 180 (F & Compact Versions), 590, 690 & 890	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-08 & N-T05-KIT-08B	N-T05-BEARING-02
		N-T05HT-GDX1-0200-L		
3067.170 (F & Compact Versions)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-08 & N-T05-KIT-08A	N-T05-BEARING-02
3067.170 (Not F or Compact Versions) & 250	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-08	N-T05-BEARING-02
3067.180 (Not F or Compact Versions)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL or N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-08	N-T05-BEARING-02
		N-T05HT-GDX1-0200-L		
3068.090, & 170, 250, 590 & 890	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-40	N-T05-BEARING-02
3068.180 (Pump)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL or N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-40	N-T05-BEARING-02
		N-T05HT-GDX1-0200-L		
3080	N-T05AT-ABX1-0200-U	N-T05HT-GDX1-0200-L	N-T05-KIT-03	N-T05-BEARING-13
3082 (Pump)	N-T05ET-GDX1-0220-UL (Lower seal)	N-T05ET-GDX1-0220-UL (Upper seal)	N-T05-KIT-33	N-T05-BEARING-34
3085.090, 091, 171, 181,	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-07	N-T05-BEARING-01
		N-T05HT-GDX1-0200-L		

Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
3085.092, 172, 182, 183 & 891	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative) N-T05HT-GDX1-0200-L	N-T05-KIT-07	N-T05-BEARING-22
3085.120, 170, 180 & 890	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05GT-GDX1-0200-UL N-T05GTX-GGX1-0200-L (No set screw alternative)	N-T05-KIT-07	N-T05-BEARING-01
3085.280, 290	N-T05GT-GDX1-0200-UL (Upper seal)	N-T05HT-GDX1-0200-L	N-T05-KIT-07	N-T05-BEARING-01
3101 (Pump)	N-T05BT-GDX1-0280-UL (Upper seal)	N-T05BT-GDX1-0280-UL (Lower seal)	N-T05-KIT-04	N-T05-BEARING-24
3102 (Pump)	N-T05JT-GDX1-0250-UL (Upper seal)	N-T05JT-GDX1-0250-UL (Lower seal)	N-T05-KIT-16	N-T05-BEARING-04
3126.090, 180	N-T05K-ADX1-0350-U	N-T05KS-GGX1-0350-L	N-T05-KIT-19	N-T05-BEARING-05
3126.091, 181, 280 & 290	N-T05K-ADX1-0350-U	N-T05MT-GDX1-0350-L	N-T05-KIT-19	N-T05-BEARING-05
3127 (Pump)	N-T05MT-ABX1-0350-U	N-T05MT-GDX1-0350-L	N-T05-KIT-20 N-T05-KIT-20A (Additional O' rings for D, F & ST models)	N-T05-BEARING-06
3140 (Pump)	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	N-T05-KIT-23	N-T05-BEARING-07
3151 (Pump)	N-T05O-ABX1-0450-U	N-T05OS-GDX1-0450-L	N-T05-KIT-60	N-T05-BEARING-08
3152.090, 120 & 180	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	N-T05-KIT-23 & N-T05-KIT-23A	N-T05-BEARING-08
3152.091, 181, 350 & 980	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	N-T05-KIT-23 & N-T05-KIT-23A	N-T05-BEARING-07
3153.090 & 180	N-T05VC-GGXABX1-0350		N-T05-KIT-41	N-T05-BEARING-05
3153.091, 095, 181 & 185	N-T05VC-GGXABX1-0350		N-T05-KIT-41	N-T05-BEARING-40
3170 & 3201	N-T05Q-ABX1-0600-U	N-T05Q-GGX1-0600-L	N-T05-KIT-27	N-T05-BEARING-09
3171 (Pump)	N-T05VC-GGXABX1-0450		N-T05-KIT-43	N-T05-BEARING-37
3200 (Pump)	N-T05P-GDX1-0600-L	N-T05Q-ABX1-0600-U	N-T05-KIT-26	N-T05-BEARING-30
3202 (Pump)	N-T05VC-GGXABX1-0600		N-T05-KIT-42	N-T05-BEARING-38
3230, 3305, 3355 & 3357(Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	-	-
3231 & 3306(Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-65	-
3300 (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-30	N-T05-BEARING-10
3301 (Pump)	N-T05VC-GGXABX1-0900		N-T05-KIT-49	N-T05-BEARING-39
3310, 3311, 3350 & 3600 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	-	-
3312.7x5 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	N-T05-KIT-45 & N-T05-KIT-68	-
3312.8x5 (Pump)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L (Old design impeller)	N-T05-KIT-45 & N-T05-KIT-74	-
		N-T05W-GGX1-1050-L		-
3351.9x5 (90mm shaft end) (Pump)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	N-T05-KIT-70 & N-T05-KIT-75	-
3351.9x5 (110mm shaft end) (Pump)	N-T05VC-GGZAGZ1-1200		-	-

Pump Specific

Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
3356 (C/N) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-65	-
3356 (L) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-64	-
3356.6x5 (C, N3356) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-65 & N-T05-KIT-71	-
3356.6x5 (L3356) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-64 & N-T05-KIT-71	-
3356.7x5 (C, N3356) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-65 & N-T05-KIT-68	-
3356.7x5 (L3356) (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-64 & N-T05-KIT-68	-
3400.7x5 (C3400) (Pump)	N-T05S-HDX1-0900-U	N-T05U-GGX1-0900-L	N-T05-KIT-69 & N-T05-KIT-68	-
3400.8x5 (C3400) (Pump)	N-T05W-AJX1-1050-U	N-T05W-GGX1-1050-L	N-T05-KIT-69 & N-T05-KIT-74	-
3500 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	N-T05-KIT-39 & N-T05-KIT-39B	-
3501.7x5, 3531.7x5 & 3602.7x5	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	N-T05-KIT-72 & N-T05-KIT-68	-
3501.8x5, 3531.8x5 & 3602.8x5	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	N-T05-KIT-72 & N-T05-KIT-74	-
3530 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	N-T05-KIT-39 & N-T05-KIT-39C	-
3531.9x5 & 3602.9x5 (90mm shaft end)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	N-T05-KIT-72 & N-T05-KIT-75	-
3531.9x5 (110mm shaft end) (Pump)	N-T05VC-GGZAGZ1-1200		-	-
3601 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	N-T05-KIT-39 & N-T05-KIT-39D	-
3602.9x5 (110mm shaft end) (Pump)	N-T05VC-GGZAGZ1-1200		-	-
3800.9x5 (90mm shaft end) (Pump)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	N-T05-KIT-76 & N-T05-KIT-75	-
3800.9x5 (110mm shaft end) (Pump)	N-T05VC-GGZAGZ1-1200		-	-
4351 (Mixer)	N-T05GT-GDX1-0200-UL (Upper seal)	N-T05HT-GDX1-0200-L	N-T05-KIT-10	N-T05-BEARING-03
4352 (Mixer)	N-T05GT-GDX1-0200-UL (Upper seal)	N-T05HT-GDX1-0200-L	N-T05-KIT-13	N-T05-BEARING-02
4400 (Mixer)	N-T05GT-GDX1-0200-UL (Upper seal)	N-T05HTX-GDX1-0200-L	N-T05-KIT-11	N-T05-BEARING-01
4410 (Mixer)	N-T05Q-GGX1-0600-L		N-T05-KIT-28	N-T05-BEARING-28
4430 (Mixer)	N-T05Q-GGX1-0600-L		N-T05-KIT-28 & N-T05-KIT-28A	N-T05-BEARING-29
4440 (Mixer)	N-T05MT-ABX1-0350-U	N-T05MT-GDX1-0350-L	N-T05-KIT-21	N-T05-BEARING-06
4451.010 & .090 (Mixer)	N-T05KX-GGX1-0350-L		N-T05-KIT-61	-
4451.210 (Mixer)	N-T05KX-GGX1-0350-L		N-T05-KIT-62	-
4501 (Mixer)	N-T05O-GGX1-0450-L		N-T05-KIT-24	N-T05-BEARING-27
4610 & 4620	N-T05VC-GGXABX1-0200		N-T05-KIT-47	N-T05-BEARING-11
4630 & 4640	N-T05VC-GGXABXS-0250		N-T05-KIT-44	N-T05-BEARING-36

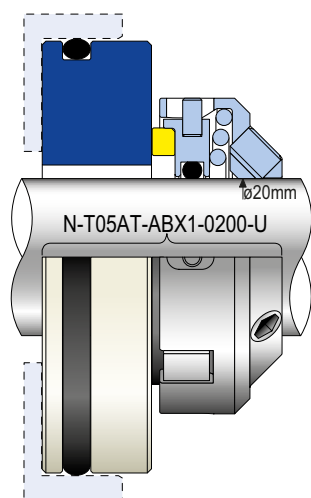
Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
4650 & 4660	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	N-T05-KIT-35	N-T05-BEARING-35
		N-T05ON-GGX1-0450-L		
	N-T05VC-GGXABX1-0450			
4670 & 4680	N-T05Q-ABX1-0600-U	N-T05Q-GGX1-0600-L	N-T05-KIT-48	-
		N-T05QN-GDX1-0600-L		
	N-T05VC-GGXABX1-0600			
5033 (Pump)	N-T05O-ABX1-0450-U	N-T05O-GGX1-0450-L	-	-
5100.210, 220 & 221	N-T05VC-GGXABX1-0350		N-T05-KIT-41 & N-T05-KIT-41A	N-T05-BEARING-05
5100.211 (Pump)	N-T05VC-GGXABX1-0350		N-T05-KIT-41 & N-T05-KIT-41A	N-T05-BEARING-40
5100.230 (22kw to 34kw) (Pump)	N-T05Q-ABX1-0600-U	N-T05QN-GDX1-0600-L	-	N-T05-BEARING-09
5100.230 (8.8kw to 14.9kw) (Pump)	N-T05O-ABX1-0450-U	N-T05ON-GGX1-0450-L	-	N-T05-BEARING-07
5100.250, 251, 260 & 261	N-T05VC-GGXABX1-0450		N-T05-KIT-43 & N-T05-KIT-43A	N-T05-BEARING-37
5100.300 & 310	N-T05VC-GGXABX1-0600		N-T05-KIT-42 & N-T05-KIT-42A	N-T05-BEARING-38
5150.300 & 310	N-T05VC-GGXABX1-0600		N-T05-KIT-42 & N-T05-KIT-42B	N-T05-BEARING-38
5150.350 & 360	N-T05VC-GGXABX1-0900		N-T05-KIT-49 & N-T05-KIT-49A	N-T05-BEARING-39
5520 (Pump)	N-T05JT-GDX1-0250-UL (Upper seal)	N-T05JT-GDX1-0250-UL (Lower seal)	-	N-T05-BEARING-04
5530 (Pump)	N-T05MT-ABX1-0350-U	N-T05MT-GDX1-0350-L	-	-
5540 (Pump)	N-T05O-ABX1-0450-U	N-T05ON-GGX1-0450-L	-	-
5550 (Pump)	N-T05Q-ABX1-0600-U	N-T05QN-GDX1-0600-L	N-T05-KIT-46	-
600 (Motor unit)	N-T05Q-ABX1-0600-U	N-T05Q-GGX1-0600-L	-	-
605, 615 & 665 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-71	-
670 & 680 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	-	-
7045 (Pump)	N-T05Q-ABX1-0600-U	N-T05Q-GGX1-0600-L	-	-
705, 715, 735, 745, 765 & 775 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-68	-
		N-T05T-GGX1-1200-L		
		N-T05U-GGX1-0900-L		
7050 & 7051 (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	-	-
7055.600 (Pump)	N-T05Q-ABX1-0600-U	N-T05Q-GGX1-0600-L	-	-
7055.680, 7060, 7075 & 7556(Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	-	-
7061.6x5 (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-77 & N-T05-KIT-71	-
7061.7x5 (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	N-T05-KIT-77 & N-T05-KIT-68	-
7080 (Pump)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L	-	-
		N-T05T-GGX1-1200-L		
7081.7x5 (P7081) (Pump)	N-T05S-HDX1-0900-U	N-T05S-GGX1-0800-L (2 Lower seal options)	-	-
		N-T05U-GGX1-0900-L		
7081.8x5 (P7081) (Pump)	N-T05W-AJX1-1050-U	N-T05U-GGX1-0900-L (2 Lower seal options)	-	-
		N-T05W-GGX1-1050-L		

Pump Specific

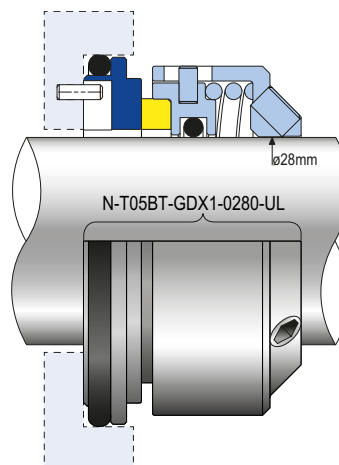
Flygt Pump Model	Upper Seal Options	Lower Seal Options	O' Ring Kit	Bearing Kit
7101.7x5 (Pump)	N-T05S-HDX1-0900-U	N-T05U-GGX1-0900-L	-	-
7101.8x5 (Pump)	N-T05W-AJX1-1050-U	N-T05U-GGX1-0900-L (2 Lower seal options) N-T05W-GGX1-1050-L	-	-
7115.8x5 & 9x5(Pump)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	-	-
7121.8x5 (Pump)	N-T05W-AJX1-1050-U	N-T05W-GGX1-1050-L	-	-
7121.9x5 (Pump)	N-T05VC-GGZAGZ1-1200		-	-
720, 721, 760 & 770 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L N-T05T-GGX1-1200-L N-T05U-GGX1-0900-L	-	-
7570.7x5 (Pump)	N-T05S-HDX1-0900-U	N-T05T-GGX1-1200-L	-	-
7570.8x5, 7585.8x5 & 7600.8x5 (Pump)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	-	-
805, 815, 835, 845, 865 & 875 (Motor unit)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L (Old design impeller) N-T05W-GGX1-1050-L	N-T05-KIT-74	-
820, 860 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L N-T05T-GGX1-1200-L N-T05U-GGX1-0900-L	N-T05-KIT-39	-
840, 841, 880, 881 & 900 (Motor unit)	N-T05S-HDX1-0900-U	N-T05SU-GGX1-0800-L N-T05T-GGX1-1200-L N-T05U-GGX1-0900-L	-	-
905, 915, 925 & 935 (Motor unit)	N-T05W-AJX1-1050-U	N-T05T-GGX1-1200-L	N-T05-KIT-75	-
Ready 4, 8 & 16 (Pump)	N-T05D-DDXDAX1-0150		-	-
Ready 40 (Pump)	N-T05CT-GDX1-0220-UL (Upper seal) N-T05FT-GDX1-0220-UL (Upper seal)	N-T05CT-GDX1-0220-UL (Lower seal) N-T05FT-GDX1-0220-UL (Lower seal)	N-T05-KIT-05	N-T05-BEARING-15
Ready 40.210 & Ready 56 (Pump)	N-T05CT-GDX1-0220-UL (Upper seal) N-T05FT-GDX1-0220-UL (Upper seal)	N-T05CT-GDX1-0220-UL (Lower seal) N-T05FT-GDX1-0220-UL (Lower seal)	N-T05-KIT-34	N-T05-BEARING-15
Ready 90 (Pump)	N-T05IT-GDX1-0280-UL (Upper seal)	N-T05IT-GDX1-0280-UL (Lower seal)	N-T05-KIT-15	N-T05-BEARING-16
Steady 5 (Pump)	N-B01-ABX1-0150C	N-B01-DDX1-0150C	N-T05-KIT-58	N-T05-BEARING-46
Steady 7 (Pump)	N-T05GT-GDX1-0200-UL (Upper seal) N-T05GTX-GGX1-0200-L (No set screw alternative, fits as per the OEM)	N-T05GT-GDX1-0200-UL (Lower seal) N-T05GTX-GGX1-0200-L (No set screw alternative, fits as per the OEM)	-	-



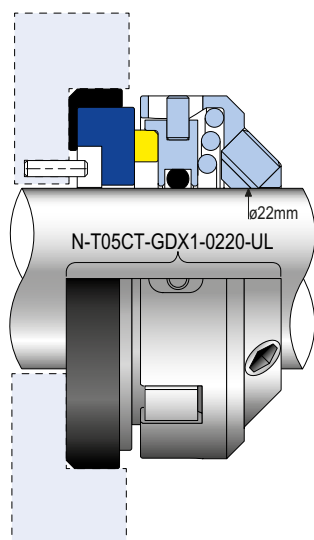
Stock code: N-T05AT-ABX1-0200-U



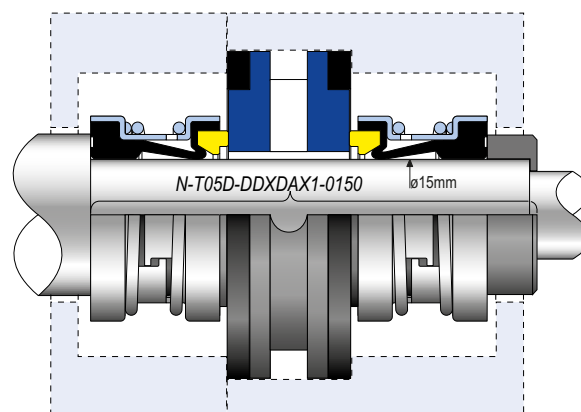
Stock code: N-T05BT-GDX1-0280-UL



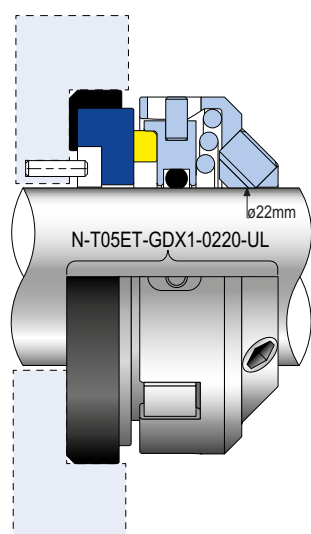
Stock code: N-T05CT-GDX1-0220-UL



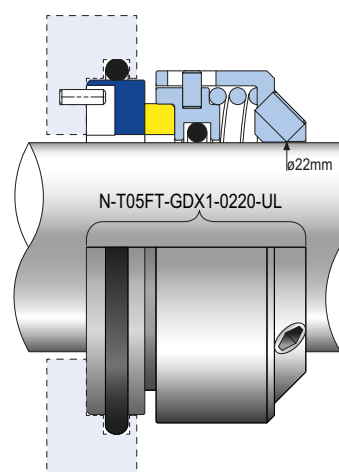
Stock code: N-T05D-DDXDAX1-0150



Stock code: N-T05ET-GDX1-0220-UL



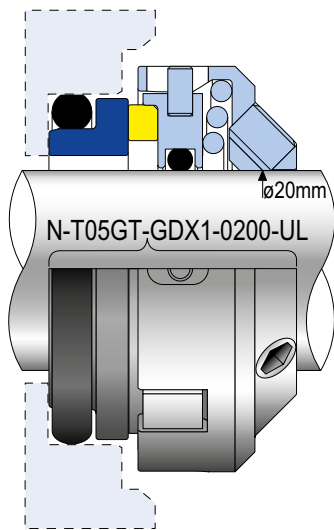
Stock code: N-T05FT-GDX1-0220-UL



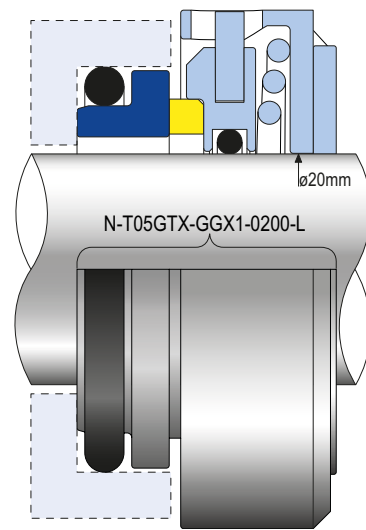
Pump Specific

T05 Range

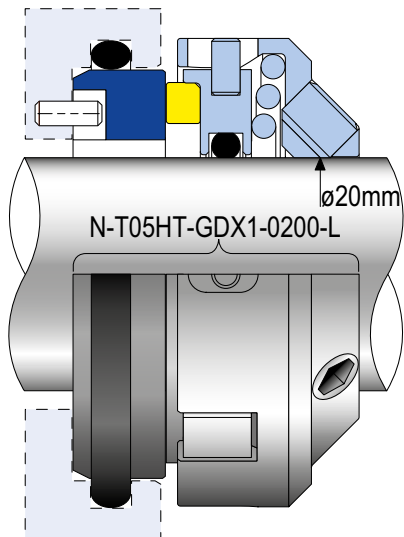
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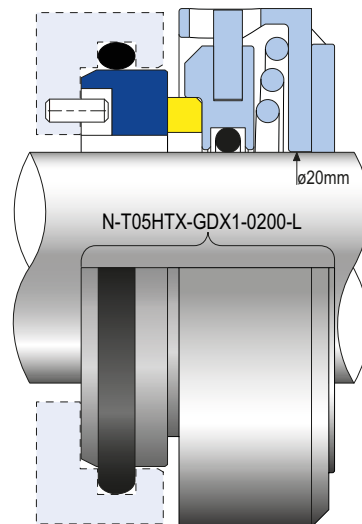
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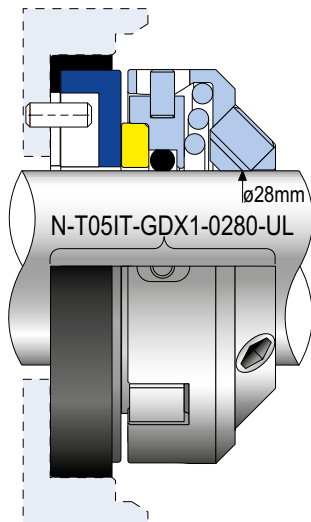
Stock code: N-T05HT-GDX1-0200-L



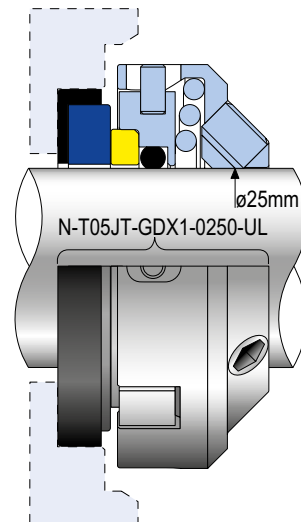
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Stock code: N-T05IT-GDX1-0280-UL

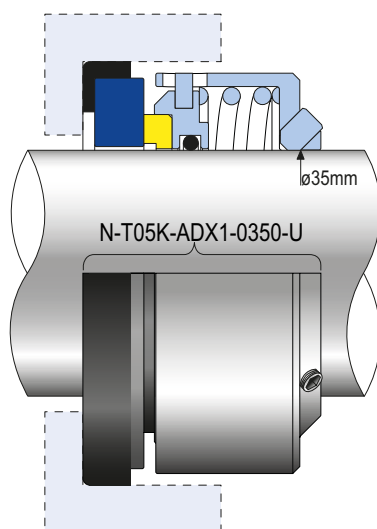


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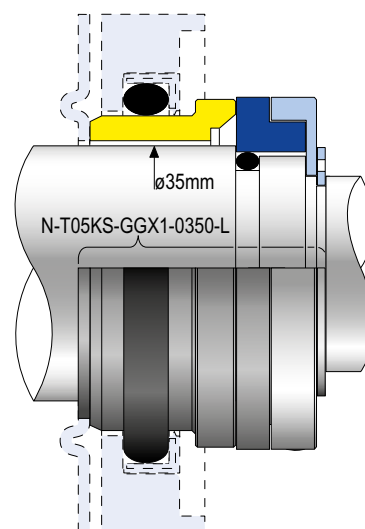


T05 Range

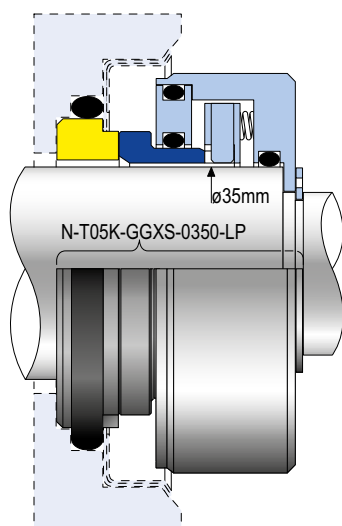
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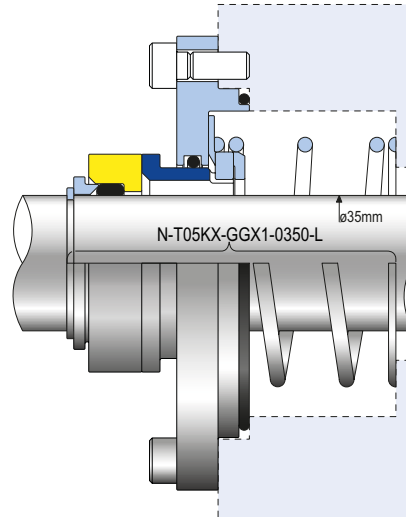
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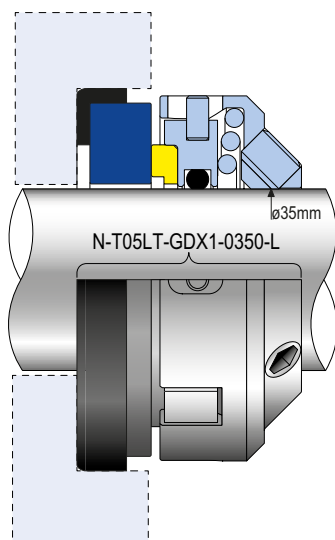
Stock code: N-T05K-GGXS-0350-LP



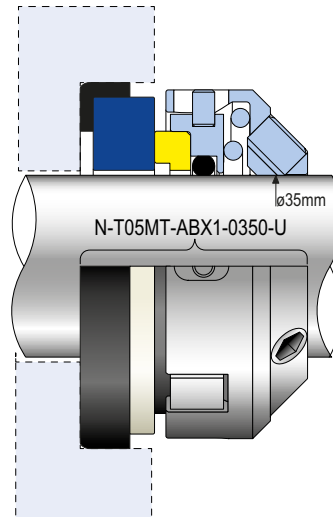
Stock code: N-T05KX-GGX1-0350-L



Stock code: N-T05LT-GDX1-0350-L

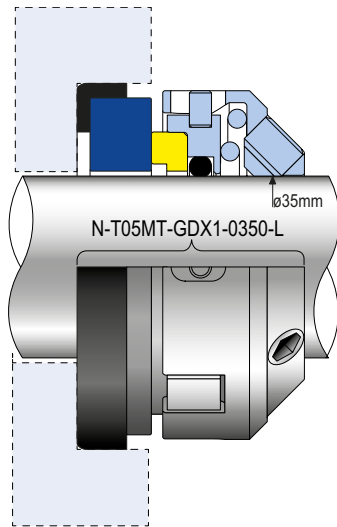


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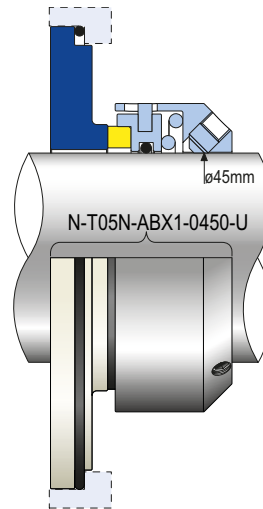


T05 Range

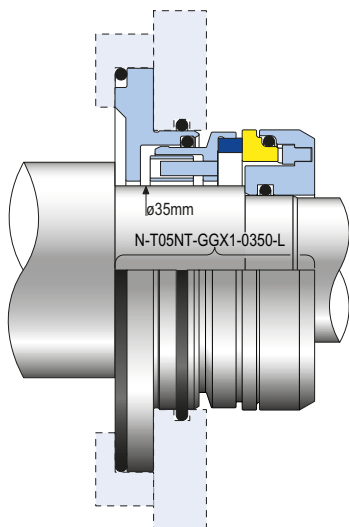
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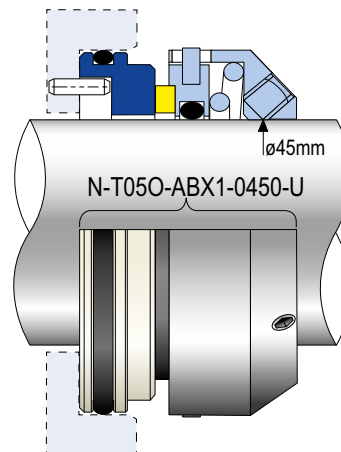
Stock code: N-T05N-ABX1-0450-U



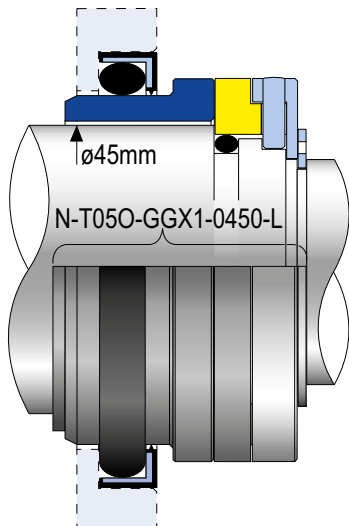
Stock code: N-T05NT-GGX1-0350-L



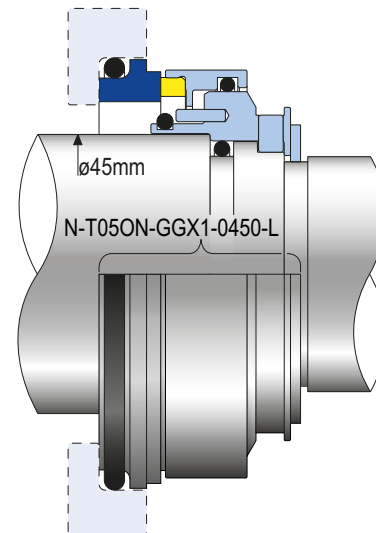
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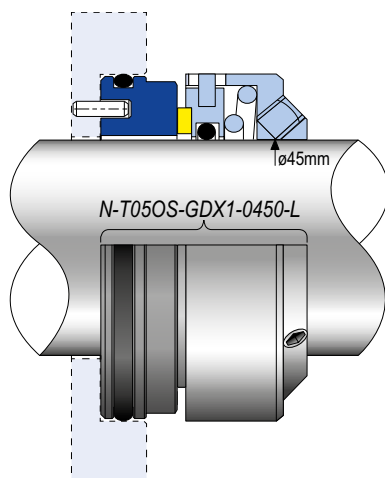
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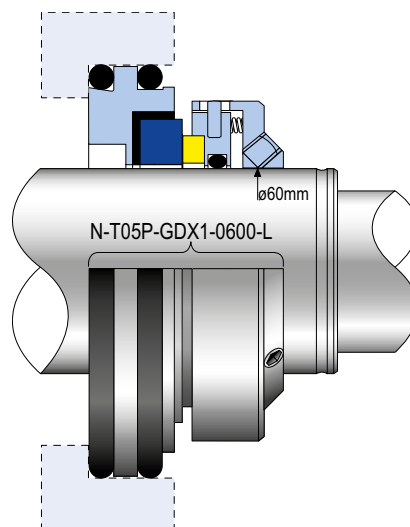
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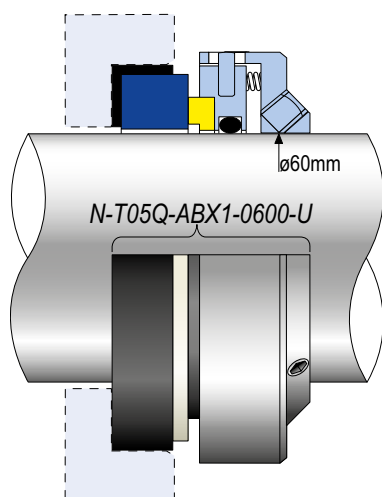
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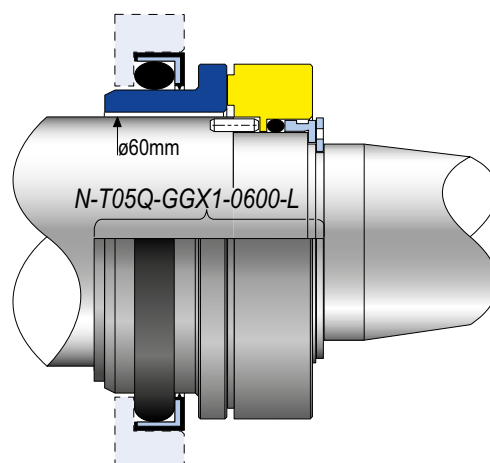
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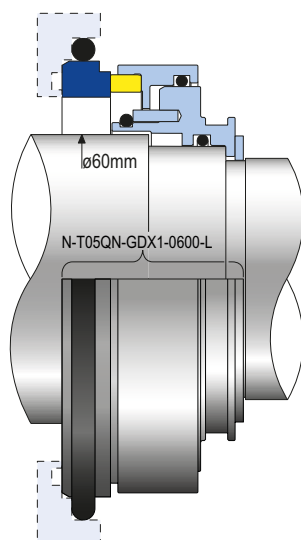
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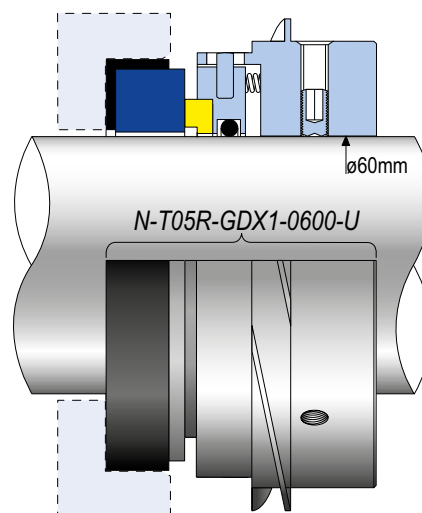
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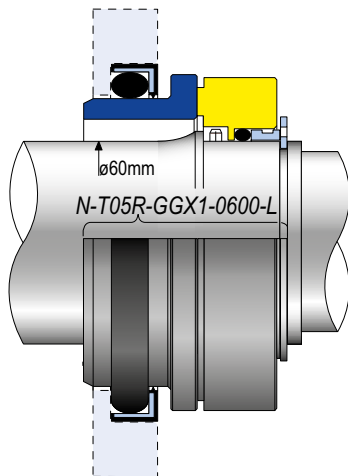
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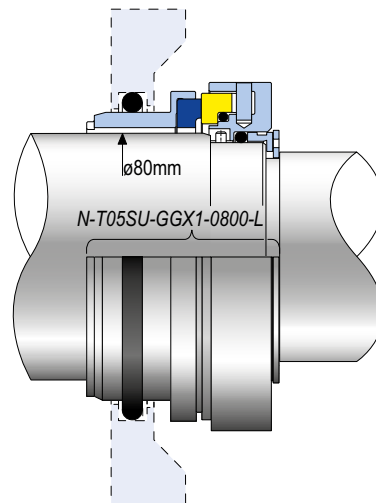
Pump Specific

T05 Range

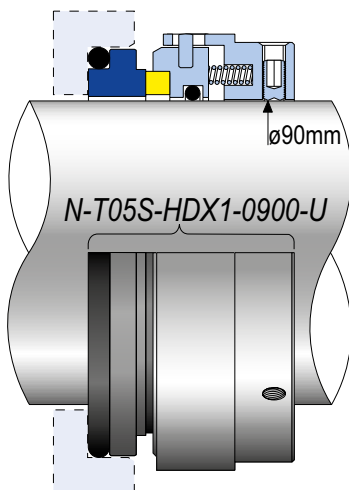
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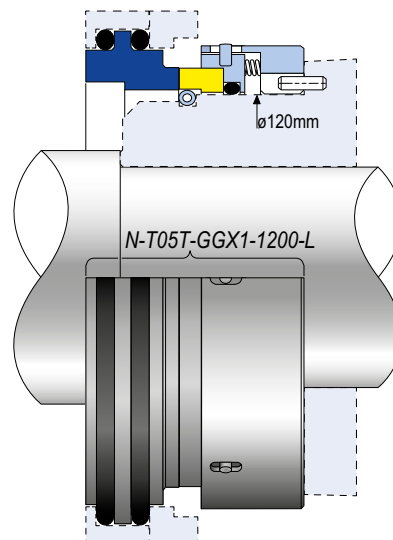
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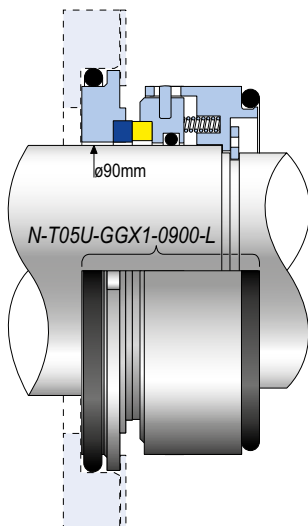
Stock code: N-T05S-HDX1-0900-U



Stock code: N-T05T-GGX1-1200-L

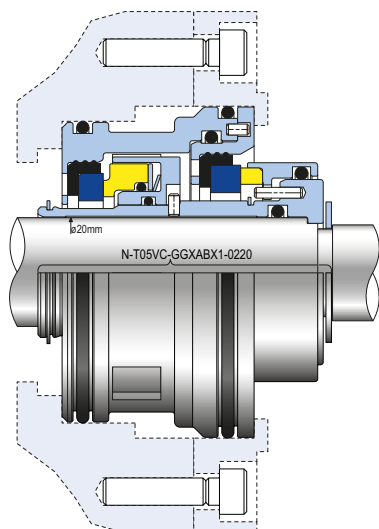


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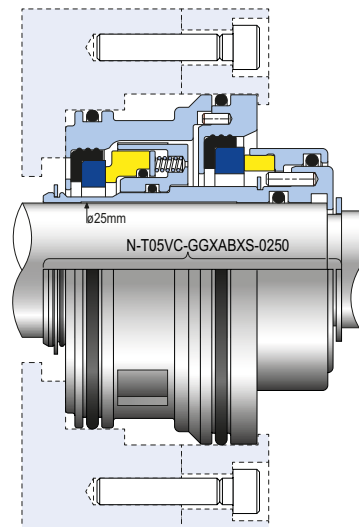


T05VC Range

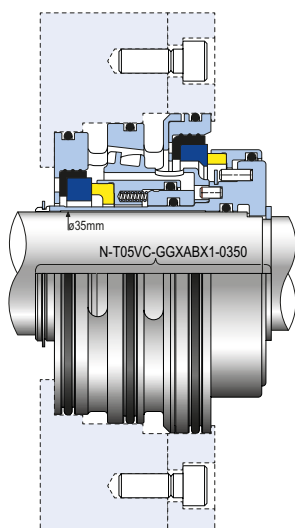
Stock code: N-T05VC-GGXABX1-0200



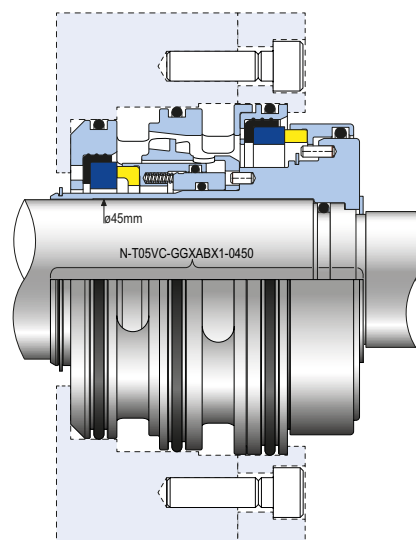
Stock code: N-T05VC-GGXABXS-0250



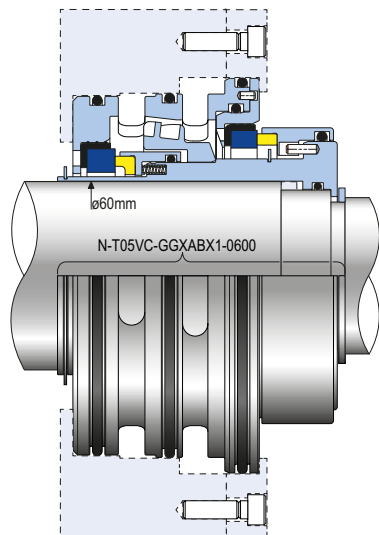
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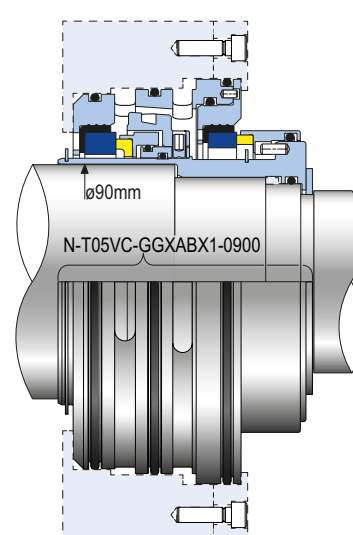
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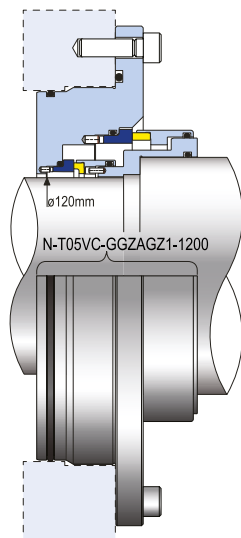
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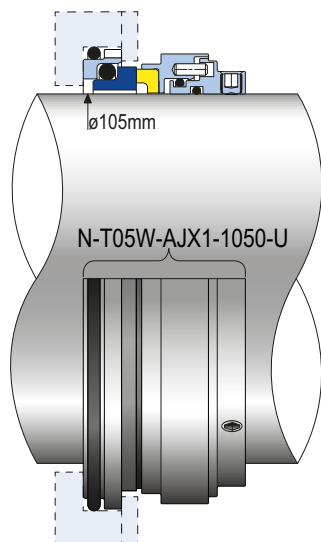


Stock code: N-T05VC-GGZAGZ1-1200

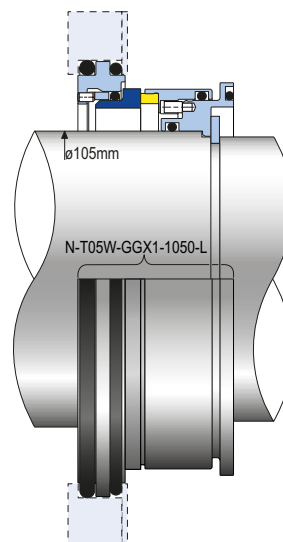


T05 Range

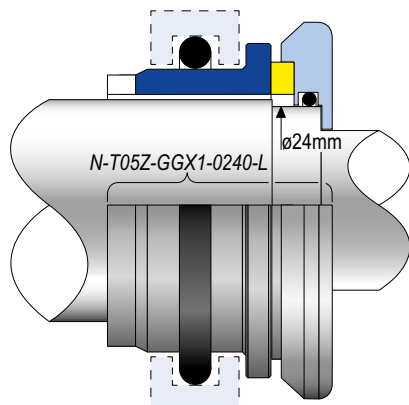
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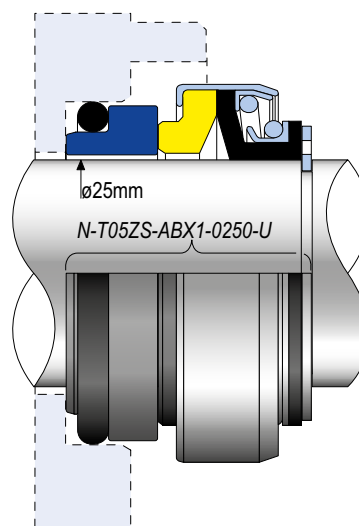
Stock code: N-T05W-GGX1-1050-L



Stock code: N-T05Z-GGX1-0240-L



Stock code: N-T05ZS-ABX1-0250-U

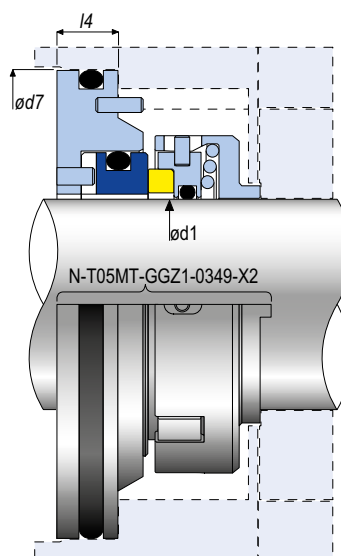


Stock code: N-T05MT-GGZ1-0349-X2

Seal suits pump type:

Blackmer Pump

Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0349	34.9	1.375	77.8	3.063	10.2	0.402

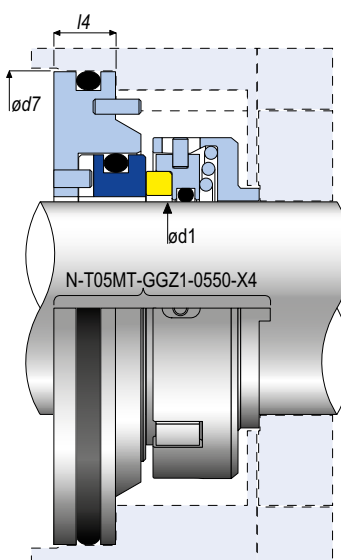


Stock code: N-T05MT-GGZ1-0550-X4

Seal suits pump type:

Blackmer Pump

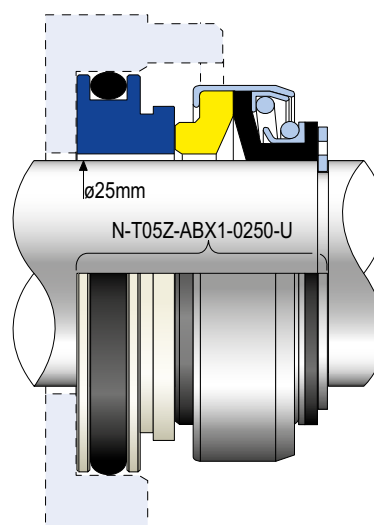
Size	d1		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches
0550	55.0	2.165	119.0	4.685	12.8	0.502



Stock code: N-T05Z-ABX1-0250-U

Seal suits pump type:

Grindex Pump



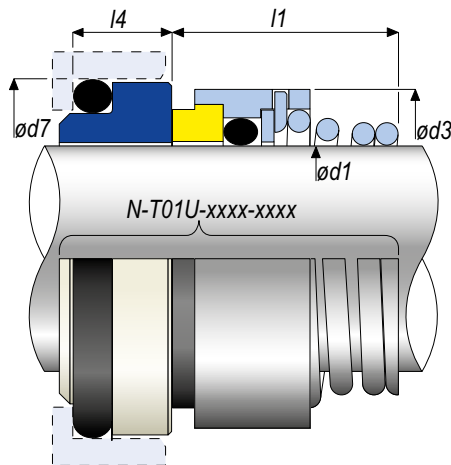
Taper Spring

T01U

Stock code: N-T01U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	P - PTFE wrapped Viton or U - FEP or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	L R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



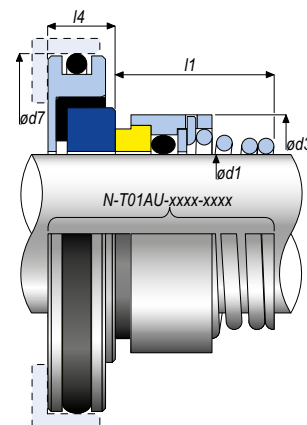
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	19.2	0.756	16.9	0.665	6.6	0.260
0120	12.0	0.472	22.0	0.866	21.6	0.850	17.4	0.685	5.6	0.220
0140	14.0	0.551	24.0	0.945	24.6	0.969	17.4	0.685	5.6	0.220
0150	15.0	0.591	25.0	0.984	24.6	0.969	17.4	0.685	6.6	0.260
0160	16.0	0.630	26.0	1.024	28.0	1.102	19.5	0.768	7.5	0.295
0180	18.0	0.709	31.0	1.220	30.0	1.181	20.5	0.807	8.0	0.315
0190	19.0	0.748	32.0	1.260	31.0	1.220	22.0	0.866	7.5	0.295
0200	20.0	0.787	34.0	1.339	35.0	1.378	22.0	0.866	7.5	0.295
0220	22.0	0.866	36.0	1.417	35.0	1.378	23.5	0.925	7.5	0.295
0240	24.0	0.945	38.0	1.496	38.0	1.496	25.0	0.984	7.5	0.295
0250	25.0	0.984	39.0	1.535	38.0	1.496	26.5	1.043	7.5	0.295
0260	26.0	1.024	40.0	1.575	40.0	1.575	26.5	1.043	8.0	0.315
0280	28.0	1.102	42.0	1.654	42.0	1.654	26.5	1.043	9.0	0.354
0300	30.0	1.181	44.0	1.732	45.0	1.772	25.0	0.984	10.5	0.413
0320	32.0	1.260	46.0	1.811	48.0	1.890	28.5	1.122	10.5	0.413
0330	33.0	1.299	47.0	1.850	50.0	1.969	28.5	1.122	10.5	0.412
0350	35.0	1.378	49.0	1.929	52.0	2.047	28.5	1.122	11.0	0.433
0380	38.0	1.496	54.0	2.126	55.0	2.165	32.2	1.268	10.3	0.406
0400	40.0	1.575	56.0	2.205	58.0	2.283	34.7	1.366	10.8	0.425
0420	42.0	1.654	59.0	2.323	62.0	2.441	37.3	1.469	12.0	0.472
0430	43.0	1.693	59.0	2.323	62.0	2.441	37.3	1.469	12.0	0.472
0450	45.0	1.772	61.0	2.402	64.0	2.520	39.2	1.543	11.6	0.457
0480	48.0	1.890	64.0	2.520	68.4	2.693	44.7	1.760	11.6	0.457
0500	50.0	1.969	66.0	2.598	69.3	2.728	45.7	1.799	11.6	0.457
0550	55.0	2.165	71.0	2.795	75.4	2.969	49.0	1.929	13.3	0.524
0580	58.0	2.283	78.0	3.071	78.4	3.087	52.0	2.047	13.3	0.524
0600	60.0	2.362	79.0	3.110	80.4	3.165	53.0	2.087	13.3	0.524
0650	65.0	2.559	85.0	3.346	85.4	3.362	54.3	2.138	13.0	0.512
0680	68.0	2.677	88.0	3.465	91.5	3.602	55.3	2.177	13.7	0.539
0700	70.0	2.756	90.0	3.543	92.0	3.622	56.3	2.217	13.0	0.512
0750	75.0	2.953	98.0	3.858	99.0	3.898	56.3	2.217	14.0	0.551
0800	80.0	3.150	103.0	4.055	104.0	4.094	59.3	2.335	15.0	0.591



T01AU



Stock code: N-T01AU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide	D - Silicon Carbide (RB) or G - Tungsten Carbide	Z - Viton (FPM)	S

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0150	15.0	0.591	25.0	0.984	38.0	1.496	15.0	0.591	8.0	0.315
0200	20.0	0.787	34.0	1.339	45.0	1.772	19.5	0.768	8.5	0.335



T01DU

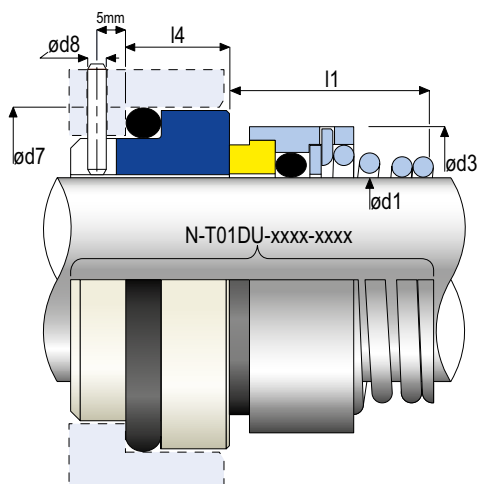
Stock code: N-T01DU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide* or H - Antimony Carbon* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide or J - Sintered SiC	P - PTFE wrapped Viton or U - FEP or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

*Availability subject to order quantity

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



Size	d1		d3		d7		d8		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	21.0	0.827	3.0	0.118	15.5	0.610	10.0	0.394
0120	12.0	0.472	22.0	0.866	23.0	0.906	3.0	0.118	16.0	0.630	10.0	0.394
0140	14.0	0.551	24.0	0.945	25.0	0.984	3.0	0.118	16.5	0.650	10.0	0.394
0160	16.0	0.630	26.0	1.024	27.0	1.063	3.0	0.118	18.0	0.709	10.0	0.394
0180	18.0	0.709	31.0	1.220	33.0	1.299	3.0	0.118	19.5	0.768	11.5	0.453
0200	20.0	0.787	34.0	1.339	35.0	1.378	3.0	0.118	22.0	0.866	11.5	0.453
0220	22.0	0.866	36.0	1.417	37.0	1.457	3.0	0.118	21.5	0.846	11.5	0.453
0240	24.0	0.945	38.0	1.496	39.0	1.535	3.0	0.118	23.5	0.925	11.5	0.453
0250	25.0	0.984	39.0	1.535	40.0	1.575	3.0	0.118	26.5	1.043	11.5	0.453
0280	28.0	1.102	42.0	1.654	43.0	1.693	3.0	0.118	26.5	1.043	11.5	0.453
0300	30.0	1.181	44.0	1.732	45.0	1.772	3.0	0.118	26.5	1.043	11.5	0.453
0320	32.0	1.260	46.0	1.811	48.0	1.890	3.0	0.118	28.5	1.122	11.5	0.453
0330	33.0	1.299	47.0	1.850	48.0	1.890	3.0	0.118	28.5	1.122	11.5	0.453
0350	35.0	1.378	49.0	1.929	50.0	1.969	3.0	0.118	28.5	1.122	11.5	0.453
0380	38.0	1.496	54.0	2.126	56.0	2.205	4.0	0.157	33.5	1.319	14.0	0.551
0400	40.0	1.575	56.0	2.205	58.0	2.283	4.0	0.157	36.0	1.417	14.0	0.551
0430	43.0	1.693	59.0	2.323	61.0	2.402	4.0	0.157	38.5	1.516	14.0	0.551
0450	45.0	1.772	61.0	2.402	63.0	2.480	4.0	0.157	39.5	1.555	14.0	0.551
0480	48.0	1.890	64.0	2.520	66.0	2.598	4.0	0.157	46.0	1.811	14.0	0.551
0500	50.0	1.969	66.0	2.598	70.0	2.756	4.0	0.157	45.0	1.772	15.0	0.591
0530	53.0	2.087	69.0	2.717	73.0	2.874	4.0	0.157	47.0	1.850	15.0	0.591
0550	55.0	2.165	71.0	2.795	75.0	2.953	4.0	0.157	49.0	1.929	15.0	0.591
0580	58.0	2.283	78.0	3.071	78.0	3.071	4.0	0.157	55.0	2.165	15.0	0.591
0600	60.0	2.362	79.0	3.110	80.0	3.150	4.0	0.157	55.0	2.165	15.0	0.591
0650	65.0	2.559	85.0	3.346	85.0	3.346	4.0	0.157	55.0	2.165	15.0	0.591
0680	68.0	2.677	88.0	3.465	90.0	3.543	4.0	0.157	55.0	2.165	18.0	0.709
0700	70.0	2.756	90.0	3.543	92.0	3.622	4.0	0.157	57.0	2.244	18.0	0.709
0750	75.0	2.953	98.0	3.858	97.0	3.819	4.0	0.157	62.0	2.441	18.0	0.709
0800	80.0	3.150	103.0	4.055	105.0	4.134	4.0	0.157	61.8	2.433	18.2	0.717



Taper Spring

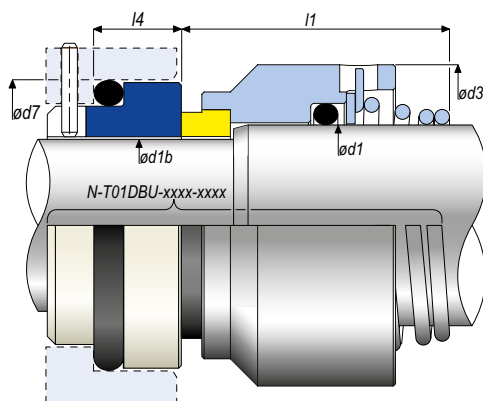
T01DBU

Stock code: N-T01DBU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or H - Antimony Carbon* or J - Sintered SiC	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	P - PTFE wrapped Viton or U - FEP or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

*Availability subject to order quantity

[^]Build Code R = Right Hand Spring, L = Left Hand Spring

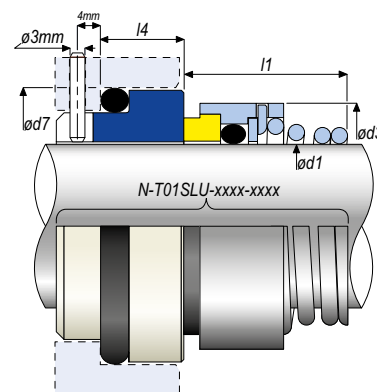


Size	d1		d1b		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0140	14.0	0.551	10.0	0.394	24.0	0.945	21.0	0.827	25.5	1.004	10.0	0.394
0160	16.0	0.630	12.0	0.472	26.0	1.024	23.0	0.906	26.5	1.043	10.0	0.394
0180	18.0	0.709	14.0	0.551	31.0	1.220	25.0	0.984	29.5	1.161	10.0	0.394
0200	20.0	0.787	16.0	0.630	34.0	1.339	27.0	1.063	31.0	1.220	10.0	0.394
0220	22.0	0.866	18.0	0.709	36.0	1.417	33.0	1.299	32.5	1.280	11.5	0.453
0240	24.0	0.945	20.0	0.787	38.0	1.496	35.0	1.378	32.5	1.280	11.5	0.453
0280	28.0	1.102	24.0	0.945	42.0	1.654	39.0	1.535	32.5	1.280	11.5	0.453
0300	30.0	1.181	25.0	0.984	44.0	1.732	40.0	1.575	33.5	1.319	11.5	0.453
0330	33.0	1.299	28.0	1.102	47.0	1.850	43.0	1.693	35.5	1.398	11.5	0.453
0350	35.0	1.378	30.0	1.181	49.0	1.929	45.0	1.772	35.5	1.398	11.5	0.453
0380	38.0	1.496	33.0	1.299	54.0	2.126	48.0	1.890	39.5	1.555	11.5	0.453
0400	40.0	1.575	35.0	1.378	56.0	2.205	50.0	1.969	43.5	1.713	11.5	0.453
0430	43.0	1.693	38.0	1.496	59.0	2.323	56.0	2.205	46.0	1.811	14.0	0.551
0450	45.0	1.772	40.0	1.575	61.0	2.402	58.0	2.283	48.0	1.890	14.0	0.551
0480	48.0	1.890	43.0	1.693	64.0	2.520	61.0	2.402	51.0	2.008	14.0	0.551
0500	50.0	1.969	45.0	1.772	66.0	2.598	63.0	2.480	55.0	2.165	14.0	0.551
0530	53.0	2.087	48.0	1.890	69.0	2.717	66.0	2.598	55.0	2.165	14.0	0.551
0550	55.0	2.165	50.0	1.969	71.0	2.795	70.0	2.756	58.0	2.283	15.0	0.591
0580	58.0	2.283	53.0	2.087	78.0	3.071	73.0	2.874	60.0	2.362	15.0	0.591
0600	60.0	2.362	55.0	2.165	79.0	3.110	75.0	2.953	60.0	2.362	15.0	0.591
0650	65.0	2.559	60.0	2.362	85.0	3.346	80.0	3.150	60.0	2.362	15.0	0.591
0680	68.0	2.677	63.0	2.480	88.0	3.465	83.0	3.268	60.0	2.362	15.0	0.591
0700	70.0	2.756	65.0	2.559	90.0	3.543	85.0	3.346	61.0	2.402	15.0	0.591
0750	75.0	2.953	70.0	2.756	98.0	3.858	92.0	3.622	63.0	2.480	18.0	0.709
0800	80.0	3.150	75.0	2.953	103.0	4.055	97.0	3.819	68.0	2.677	18.0	0.709



T01SLU

Stock code: N-T01SLU-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or D - Silicon Carbide (RB) or G - Tungsten Carbide*	B - Alumina Ceramic or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

*Availability subject to order quantity

[^]Build Code R = Right Hand Spring, L = Left Hand Spring

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	19.2	0.756	16.9	0.665	5.6	0.220
0120	12.0	0.472	22.0	0.866	21.6	0.850	17.4	0.685	5.6	0.220
0140	14.0	0.551	24.0	0.945	24.6	0.969	17.4	0.685	6.6	0.260
0150	15.0	0.591	25.0	0.984	24.6	0.969	17.4	0.685	6.6	0.260
0160	16.0	0.630	26.0	1.024	28.0	1.102	19.5	0.768	7.0	0.276
0180	18.0	0.709	31.0	1.220	30.0	1.181	20.5	0.807	8.0	0.315
0190	19.0	0.748	32.0	1.260	35.0	1.378	22.0	0.866	7.5	0.295
0200	20.0	0.787	34.0	1.339	35.0	1.378	22.0	0.866	7.5	0.295
0220	22.0	0.866	36.0	1.417	35.0	1.378	23.5	0.925	7.5	0.295
0240	24.0	0.945	38.0	1.496	38.0	1.496	25.0	0.984	7.5	0.295
0250	25.0	0.984	39.0	1.535	38.0	1.496	26.5	1.043	7.5	0.295
0260	26.0	1.024	40.0	1.575	38.0	1.496	26.5	1.043	7.5	0.295
0280	28.0	1.102	42.0	1.654	42.0	1.654	26.5	1.043	9.0	0.354
0300	30.0	1.181	44.0	1.732	45.0	1.772	25.0	0.984	10.5	0.413
0320	32.0	1.260	46.0	1.811	48.0	1.890	28.5	1.122	10.5	0.413
0350	35.0	1.378	49.0	1.929	52.0	2.047	28.5	1.122	11.0	0.433
0380	38.0	1.496	54.0	2.126	55.0	2.165	32.2	1.268	10.3	0.406
0400	40.0	1.575	56.0	2.205	58.0	2.283	34.7	1.366	10.8	0.425
0420	42.0	1.654	59.0	2.323	62.0	2.441	37.3	1.469	12.2	0.480
0450	45.0	1.772	61.0	2.402	64.0	2.520	39.2	1.543	11.8	0.465
0480	48.0	1.890	64.0	2.520	68.4	2.693	44.7	1.760	11.8	0.465
0500	50.0	1.969	66.0	2.598	69.3	2.728	45.7	1.799	11.8	0.465
0550	55.0	2.165	71.0	2.795	75.4	2.969	49.0	1.929	13.5	0.531
0580	58.0	2.283	78.0	3.071	78.4	3.087	52.0	2.047	13.5	0.531
0600	60.0	2.362	79.0	3.110	80.4	3.165	53.0	2.087	13.5	0.531
0650	65.0	2.559	85.0	3.346	85.4	3.362	54.3	2.138	13.2	0.520
0680	68.0	2.677	88.0	3.465	91.5	3.602	55.3	2.177	13.7	0.539
0700	70.0	2.756	90.0	3.543	92.0	3.622	56.3	2.217	13.2	0.520
0750	75.0	2.953	98.0	3.858	99.0	3.898	56.3	2.217	14.2	0.559
0800	80.0	3.150	103.0	4.055	104.0	4.094	59.3	2.335	15.2	0.598



Taper Spring

T01FU Range

22mm Single Seals

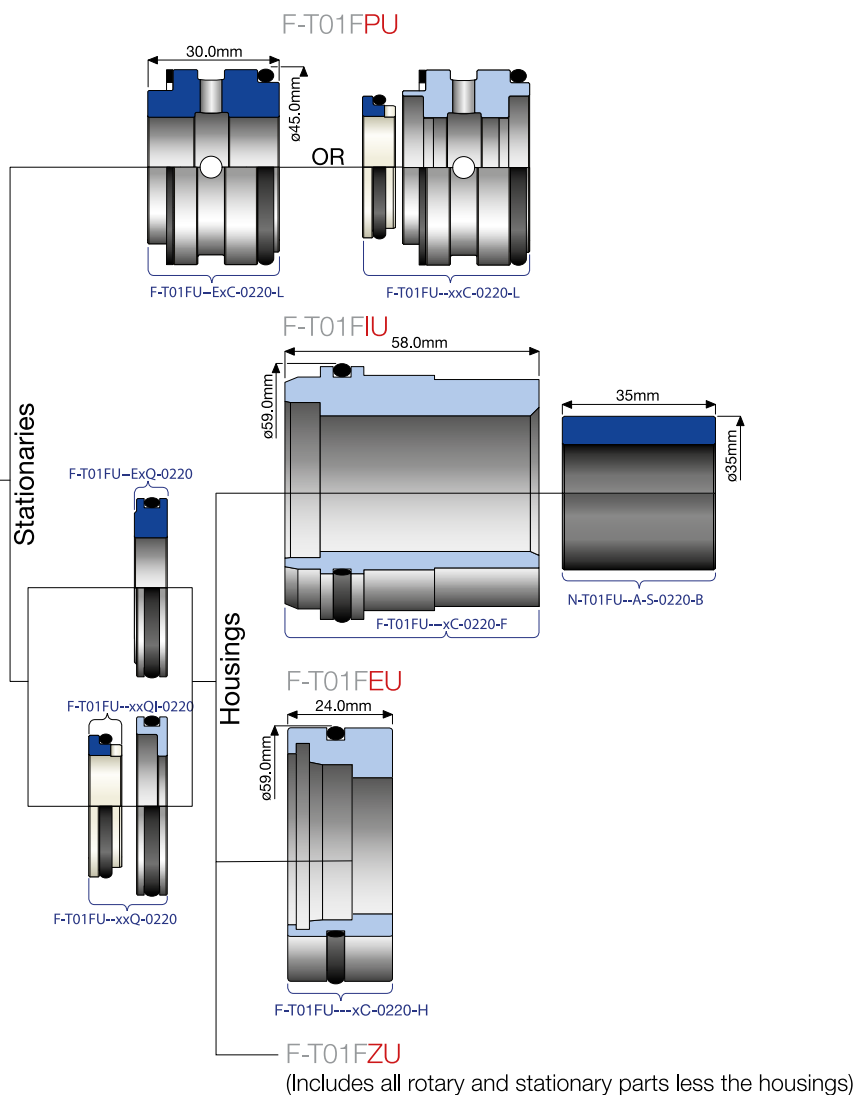
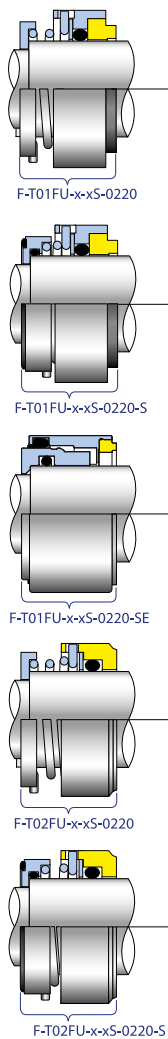
Stock code: F-T01FxU-xxx-0220

Rotary Face	Stationary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	I - AES Elast or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)

Build Code	Internal Rotary Type
1	F-T01FU-x-xS-0220
M	F-T01FU-x-xS-0220-S
D	F-T01FU-x-xS-0220-SE
A	F-T02FU-x-xS-0220
E	F-T02FU-x-xS-0220-S

*Available in T02FU Rotary Only

Internal Rotaries (Working Length 22mm)



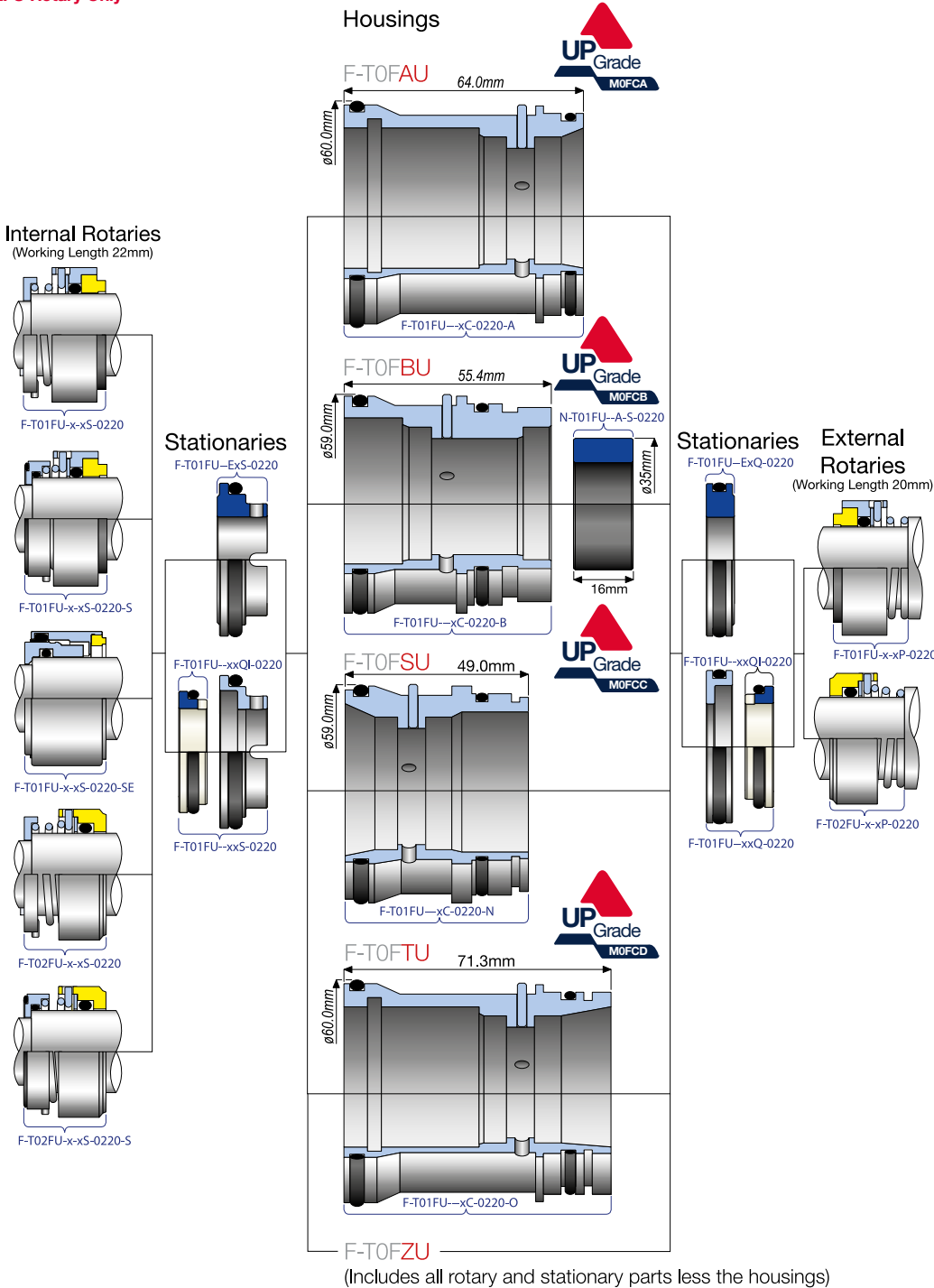
22mm Double Seals

Stock code: F-T0FxU-xxxxxx-0220

(Build Code)

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)

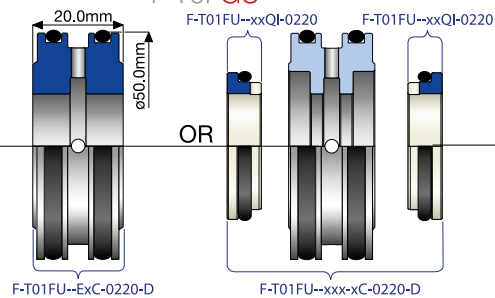
*Available in T02FU Rotary Only



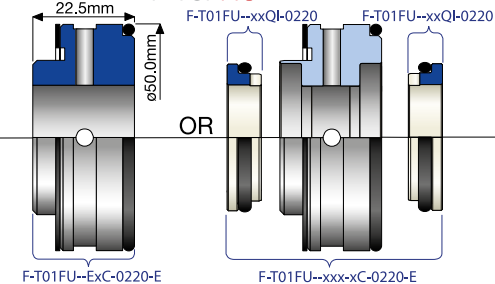
Build Code	Internal Rotary Type	External Rotary Type
1	F-T01FU-x-xS-0220	F-T01FU-x-xP-0220
A	F-T02FU-x-xS-0220	F-T01FU-x-xP-0220
D	F-T01FU-x-xS-0220-SE	F-T01FU-x-xP-0220
E	F-T02FU-x-xS-0220-S	F-T01FU-x-xP-0220
F	F-T02FU-x-xS-0220-S	F-T02FU-x-xP-0220
G	F-T01FU-x-xS-0220-SE	F-T02FU-x-xP-0220
M	F-T01FU-x-xS-0220-S	F-T01FU-x-xP-0220
N	F-T01FU-x-xS-0220-S	F-T02FU-x-xP-0220
O	F-T02FU-x-xS-0220	F-T02FU-x-xP-0220
T	F-T01FU-x-xS-0220	F-T02FU-x-xP-0220

Stationaries

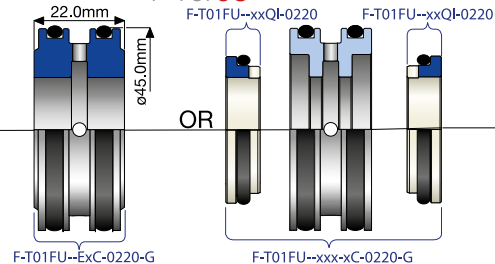
F-T0F^{GU}



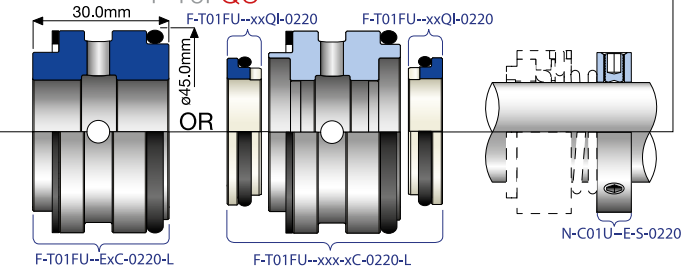
F-T0F^{HU}



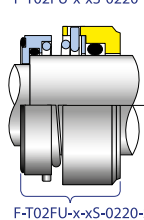
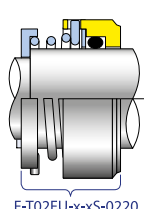
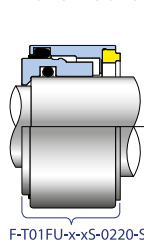
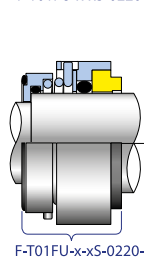
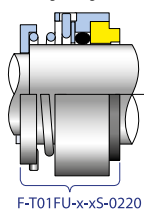
F-T0F^{JU}



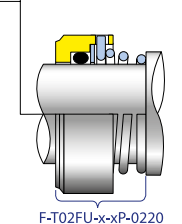
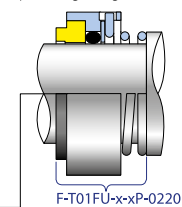
F-T0F^{QU}



Internal Rotaries (Working Length 22mm)



External Rotaries (Working Length 20mm)



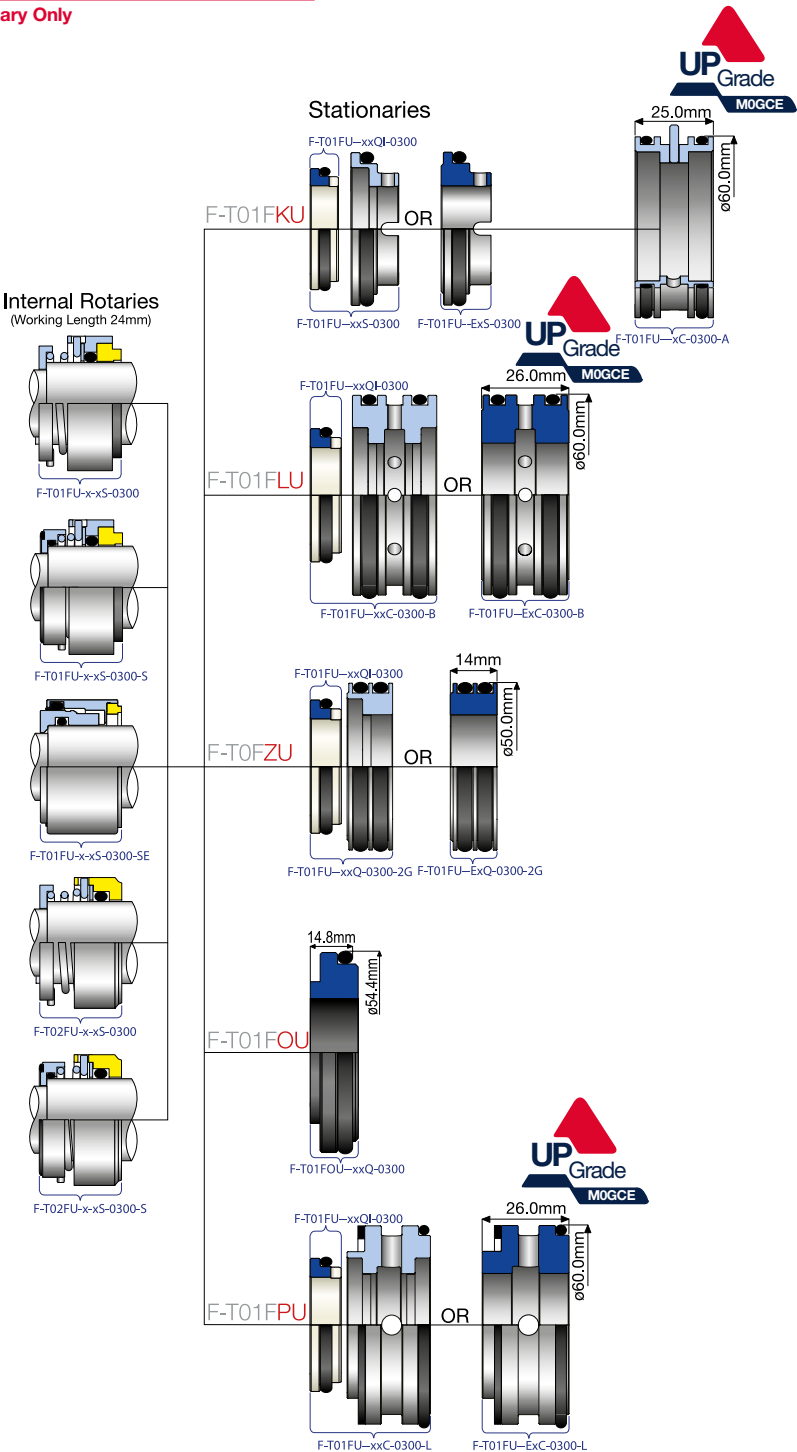
30mm Single Seals

Stock code: F-T01F^xU-^xxxx-0300

Rotary Face	Stationary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)

Build Code	Internal Rotary Type
1	F-T01FU-x-xS-0300
M	F-T01FU-x-xS-0300-S
D	F-T01FU-x-xS-0300-SE
A	F-T02FU-x-xS-0300
E	F-T02FU-x-xS-0300-S

*Available in T02FU Rotary Only



Taper Spring

30mm Double Seals

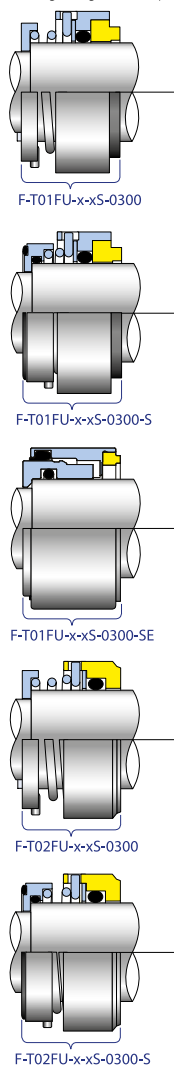
Stock code: F-T0FxU-xxxxxx-0300

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)

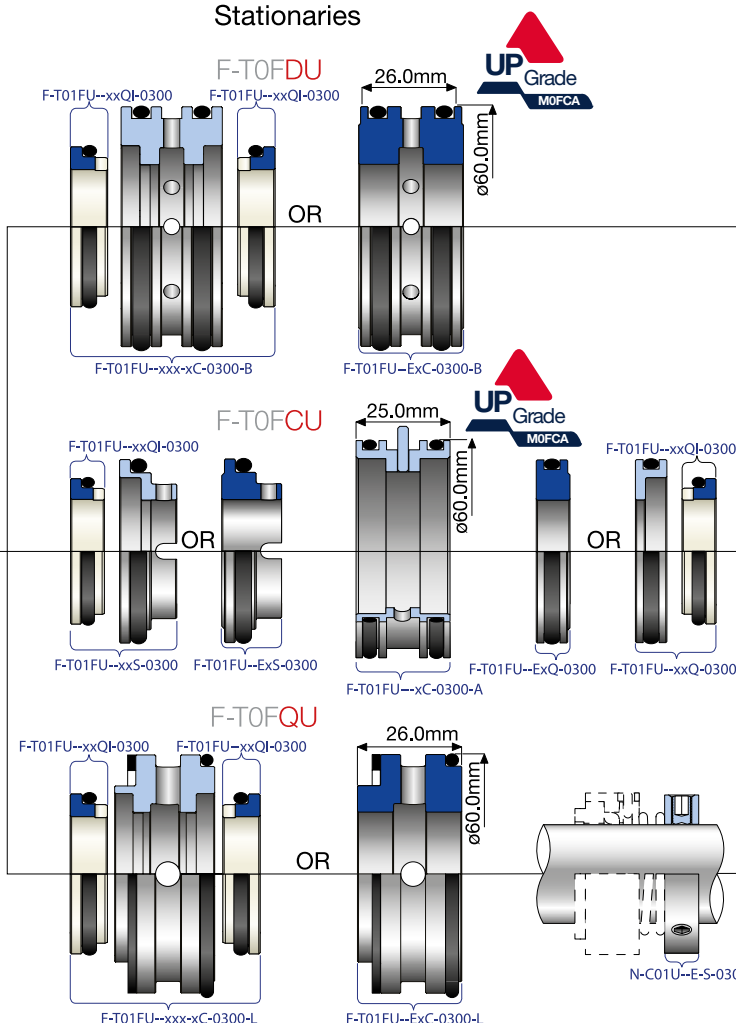
*Available in T02FU Rotary Only

Build Code	Internal Rotary Type	External Rotary Type
1	F-T01FU-x-xS-0300	F-T01FU-x-xP-0300
A	F-T02FU-x-xS-0300	F-T01FU-x-xP-0300
D	F-T01FU-x-xS-0300-SE	F-T01FU-x-xP-0300
E	F-T02FU-x-xS-0300-S	F-T01FU-x-xP-0300
F	F-T02FU-x-xS-0300-S	F-T02FU-x-xP-0300
G	F-T01FU-x-xS-0300-SE	F-T02FU-x-xP-0300
M	F-T01FU-x-xS-0300-S	F-T01FU-x-xP-0300
N	F-T01FU-x-xS-0300-S	F-T02FU-x-xP-0300
O	F-T02FU-x-xS-0300	F-T02FU-x-xP-0300
T	F-T01FU-x-xS-0300	F-T02FU-x-xP-0300

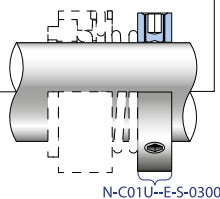
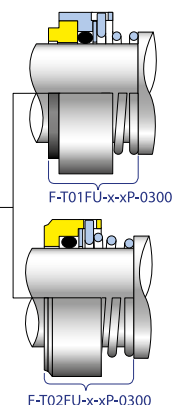
Internal Rotaries (Working Length 24mm)



Stationaries



External Rotaries (Working Length 22mm)



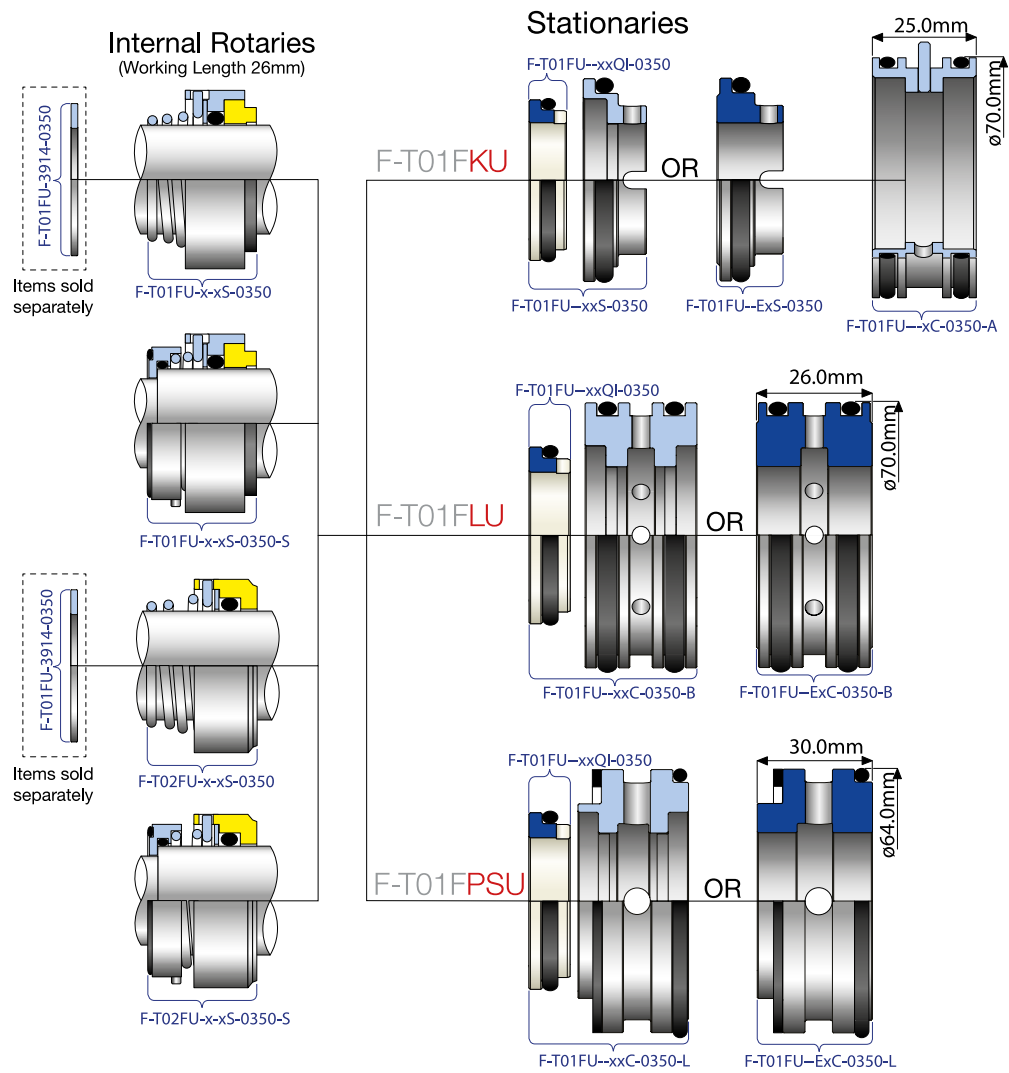
35mm Single Seals

Stock code: F-T01F^xU-^{xxxx}-0350

Rotary Face	Stationary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)

Build Code	Internal Rotary Type
1	F-T01FU-x-xS-0350
M	F-T01FU-x-xS-0350-S
A	F-T02FU-x-xS-0350
E	F-T02FU-x-xS-0350-S

*Available in T02FU Rotary Only



Taper Spring

35mm Double Seals

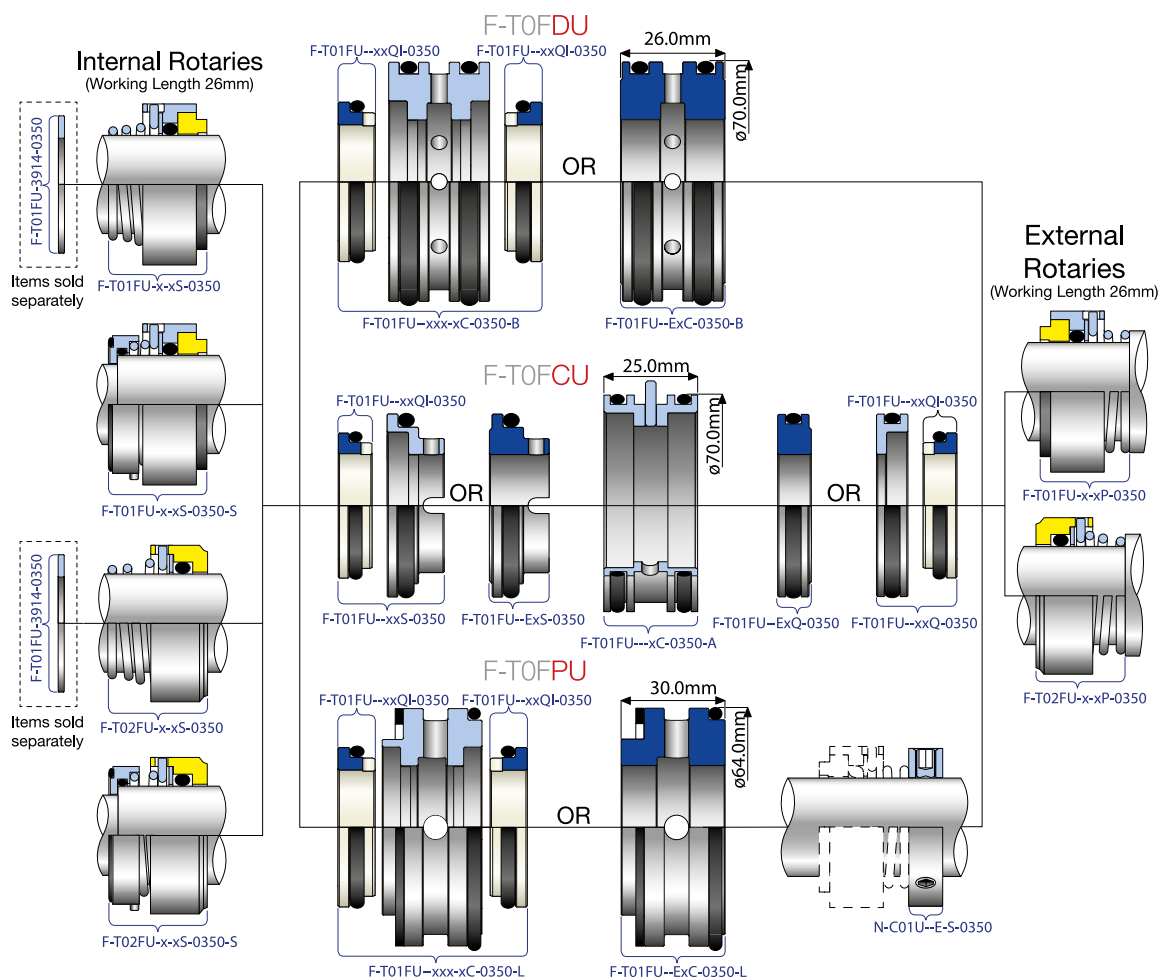
Stock code: F-T0FxU-xxxxxxx-0350

Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer
A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	A - Carbon or B - Ceramic or E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or *B - Ceramic or *E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)

*Available in T02FU Rotary Only

Build Code	Internal Rotary Type	External Rotary Type
1	F-T01FU-x-xS-0350	F-T01FU-x-xP-0350
A	F-T02FU-x-xS-0350	F-T01FU-x-xP-0350
E	F-T02FU-x-xS-0350-S	F-T01FU-x-xP-0350
F	F-T02FU-x-xS-0350-S	F-T02FU-x-xP-0350
M	F-T01FU-x-xS-0350-S	F-T01FU-x-xP-0350
N	F-T01FU-x-xS-0350-S	F-T02FU-x-xP-0350
O	F-T02FU-x-xS-0350	F-T02FU-x-xP-0350
T	F-T01FU-x-xS-0350	F-T02FU-x-xP-0350

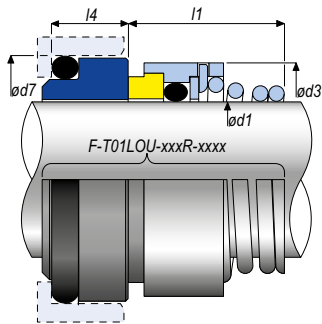
Stationaries



T01LOU



Stock code: F-T01LOU-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or D - Silicon Carbide (RB) or J - Sintered SiC	D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

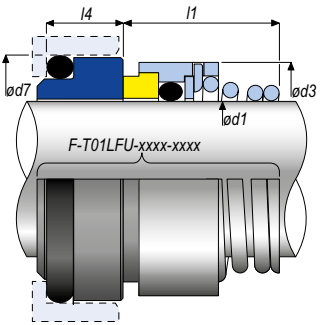
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	31.0	1.260	35.0	1.378	22.0	0.866	7.5	0.295
0280	28.0	1.102	42.0	1.653	42.0	1.654	26.5	1.043	9.0	0.354
0300	30.0	1.181	44.0	1.732	45.0	1.772	25.0	0.984	10.5	0.413
0380	38.0	1.496	54.0	2.126	55.0	2.165	32.2	1.268	10.3	0.406
0400	40.0	1.575	56.0	2.205	58.0	2.283	34.7	1.366	10.8	0.425
0500	50.0	1.969	66.0	2.598	70.0	2.756	45.7	1.799	11.6	0.457



T01LFU



Stock code: F-T01LFU-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or J - Sintered SiC	D - Silicon Carbide (RB) or J - Sintered SiC	Y - EPR (EPDM) or Z - Viton (FPM)	L R

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0220	22.0	0.866	36.0	1.417	37.0	1.457	27.5	1.083	10.0	0.394
0300	30.0	1.181	44.0	1.732	45.0	1.772	31.5	1.240	11.0	0.433
0400	40.0	1.575	56.0	2.205	58.0	2.283	33.5	1.319	11.5	0.453
0500	50.0	1.969	66.0	2.598	70.0	2.756	33.5	1.358	13.0	0.512

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



Taper Spring

T01FSLV

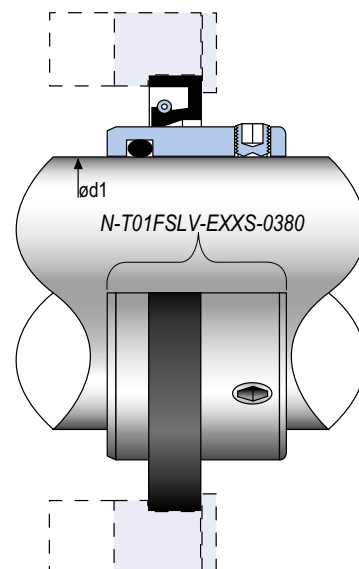


Seal to be used with MW0FC or
MW0FA for flushed configuration

Stock code: N-T01FSLV-xxxx-0380

Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel	X - Nitrile (BUNA)	X - Nitrile (BUNA)	S

Size	d1	
	Metric	Inches
0380	38.0	1.496



T01LKU

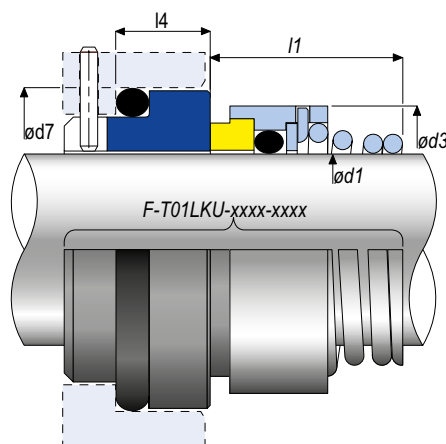


Stock code: F-T01LKU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	44.0	1.732	45.0	1.772	31.5	1.240	11.0	0.433
0400	40.0	1.575	56.0	2.205	58.0	2.283	33.5	1.319	11.5	0.453
0500	50.0	1.969	66.0	2.598	70.0	2.756	33.5	1.319	14.0	0.551

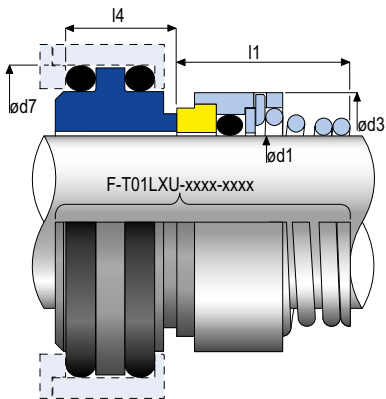
[^]Build Code R = Right Hand Spring, L = Left Hand Spring



T01LXU



Stock code: F-T01LXU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

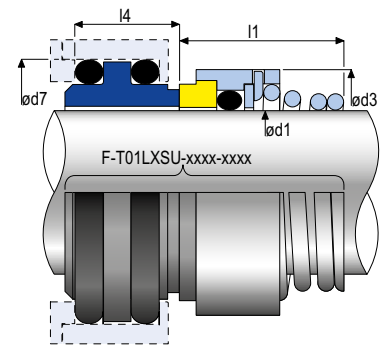
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	31.0	1.220	39.3	1.547	20.0	0.787	15.0	0.591
0280	28.0	1.102	40.0	1.575	47.3	1.862	24.5	0.965	15.5	0.610



T01LXSU



Stock code: F-T01LXSU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	32.0	1.260	35.0	1.378	20.0	0.787	15.0	0.591
0280	28.0	1.102	42.0	1.654	41.3	1.626	24.5	0.965	15.5	0.610



Taper Spring

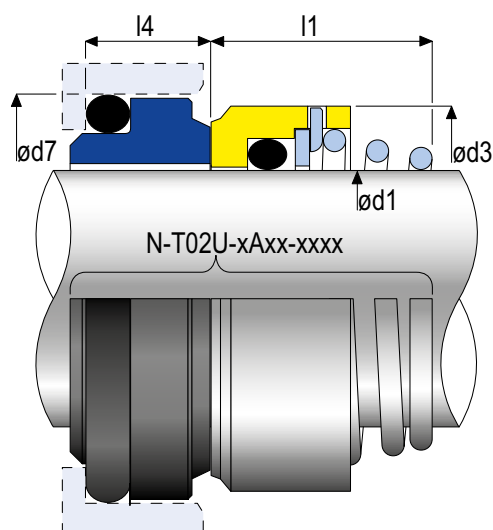
T02U

Stock code: N-T02U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
B - Alumina Ceramic or E - Stainless Steel	A - Carbon	P - PTFE wrapped Viton or U - FEP or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



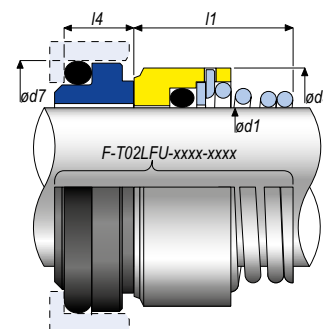
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	19.2	0.756	15.5	0.610	7.1	0.279
0120	12.0	0.472	22.0	0.866	21.6	0.850	15.5	0.610	7.6	0.299
0140	14.0	0.551	24.0	0.945	24.6	0.969	15.5	0.610	7.6	0.299
0150	15.0	0.591	25.0	0.984	24.6	0.969	15.5	0.610	8.6	0.339
0160	16.0	0.630	26.0	1.024	28.0	1.102	17.5	0.689	9.0	0.354
0180	18.0	0.709	31.0	1.220	30.0	1.181	18.5	0.728	10.0	0.394
0190	19.0	0.748	32.0	1.260	31.0	1.220	20.0	0.787	9.0	0.354
0200	20.0	0.787	34.0	1.339	35.0	1.378	20.0	0.787	9.5	0.374
0220	22.0	0.866	36.0	1.417	35.0	1.378	21.5	0.846	9.5	0.374
0240	24.0	0.945	38.0	1.496	38.0	1.496	23.0	0.906	9.5	0.374
0250	25.0	0.984	39.0	1.535	38.0	1.496	24.5	0.965	9.5	0.374
0260	26.0	1.024	40.0	1.575	40.0	1.575	24.2	0.955	9.5	0.374
0280	28.0	1.102	42.0	1.654	42.0	1.654	25.5	1.004	10.0	0.394
0300	30.0	1.181	44.0	1.732	45.0	1.772	24.5	0.965	11.0	0.433
0320	32.0	1.260	46.0	1.811	48.0	1.890	28.0	1.102	11.0	0.433
0350	35.0	1.378	49.0	1.929	52.0	2.047	28.0	1.102	11.5	0.453
0380	38.0	1.496	54.0	2.126	55.0	2.165	31.0	1.220	11.5	0.453
0400	40.0	1.575	56.0	2.205	58.0	2.283	34.0	1.339	11.5	0.453
0420	42.0	1.654	59.0	2.323	62.0	2.441	35.0	1.378	14.3	0.563
0430	43.0	1.693	59.0	2.323	62.0	2.441	35.4	1.394	13.9	0.547
0450	45.0	1.772	61.0	2.402	64.0	2.520	36.5	1.437	14.3	0.563
0480	48.0	1.890	64.0	2.520	68.4	2.693	42.0	1.654	14.3	0.563
0500	50.0	1.969	66.0	2.598	69.3	2.728	43.4	1.707	13.9	0.549
0550	55.0	2.165	71.0	2.795	75.4	2.969	47.0	1.850	15.3	0.602
0580	58.0	2.283	78.0	3.071	78.4	3.087	50.0	1.969	15.3	0.602
0600	60.0	2.362	79.0	3.110	80.4	3.165	51.0	2.008	15.3	0.602
0650	65.0	2.559	85.0	3.346	85.4	3.362	52.0	2.047	15.3	0.602
0680	68.0	2.677	88.0	3.465	91.5	3.602	53.0	2.087	16.0	0.630
0700	70.0	2.756	90.0	3.543	92.0	3.622	54.0	2.126	15.3	0.602
0750	75.0	2.953	98.0	3.858	99.0	3.898	55.0	2.165	15.3	0.602
0800	80.0	3.150	103.0	4.055	104.0	4.094	58.0	2.283	16.3	0.642



T02LFU



Stock code: F-T02LFU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
B - Alumina Ceramic or E - Stainless Steel	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring

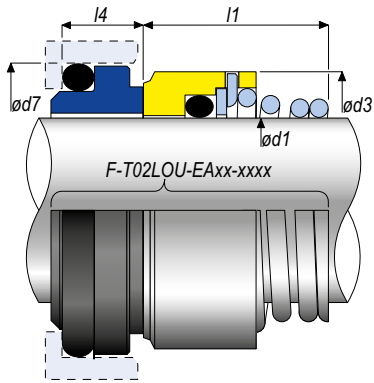
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0220	22.0	0.866	36.0	1.417	37.0	1.457	25.5	0.984	10.0	0.394
0300	30.0	1.181	44.0	1.732	45.0	1.772	31.5	1.240	11.0	0.433
0400	40.0	1.575	56.0	2.205	58.0	2.283	33.5	1.319	11.5	0.453
0500	50.0	1.969	66.0	2.598	70.0	2.756	33.5	1.319	14.0	0.551



T02LOU



Stock code: F-T02LOU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
B - Alumina Ceramic or E - Stainless Steel	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring

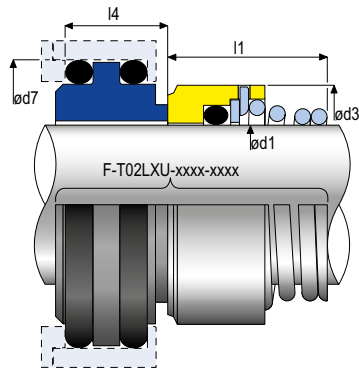
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	31.0	1.260	35.0	1.378	22.0	0.866	7.5	0.295
0280	28.0	1.102	42.0	1.653	42.0	1.654	26.5	1.043	9.0	0.354
0300	30.0	1.181	44.0	1.732	45.0	1.772	25.0	0.984	10.5	0.413
0380	38.0	1.496	54.0	2.126	55.0	2.165	32.2	1.268	10.3	0.406
0400	40.0	1.575	56.0	2.05	58.0	2.283	34.7	1.366	10.8	0.425
0500	50.0	1.969	66.0	2.598	70.0	2.756	45.9	1.799	11.6	0.457



T02LXU



Stock code: F-T02LXU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or E - Stainless Steel	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

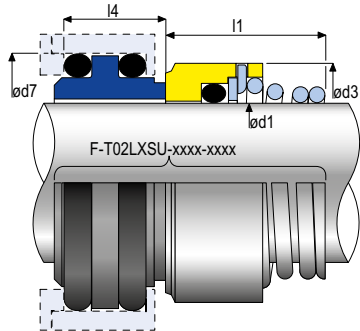
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	31.0	1.220	39.3	1.547	20.0	0.787	15.0	0.591
0280	28.0	1.102	40.0	1.575	47.3	1.862	24.5	0.965	15.5	0.610



T02LXSU



Stock code: F-T02LXSU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or B - Alumina Ceramic	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	32.0	1.260	35.0	1.378	20.0	0.787	15.0	0.591
0280	28.0	1.102	42.0	1.654	41.3	1.626	24.5	0.965	15.5	0.610



Taper Spring

T03U

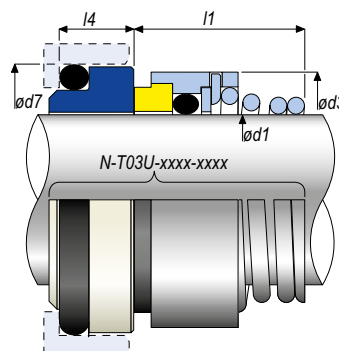
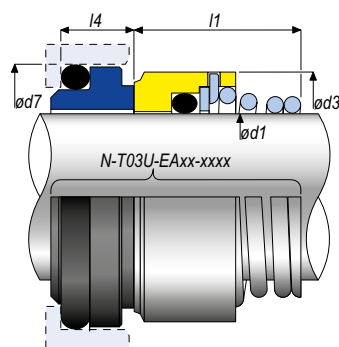
Stock code: N-T03U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
A - Carbon or B - Alumina Ceramic or D - Silicon Carbide (RB) or E - Stainless Steel or G - Tungsten Carbide* or J - Sintered SiC	A - Carbon or B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R	0100	10.0	0.394	20.0	0.787	18.1	0.713	15.0	0.591	5.5	0.217
				0110	11.0	0.433	21.0	0.827	20.6	0.811	18.0	0.709	5.5	0.217
				0120	12.0	0.472	22.0	0.866	20.6	0.811	18.0	0.709	5.5	0.217
				0130	13.0	0.512	23.0	0.906	23.1	0.909	22.0	0.866	6.0	0.236
				0140	14.0	0.551	24.0	0.945	23.1	0.909	22.0	0.866	6.0	0.236
				0150	15.0	0.591	25.0	0.984	26.9	1.059	22.0	0.866	7.0	0.276
				0160	16.0	0.630	26.0	1.024	26.9	1.059	23.0	0.906	7.0	0.276
				0180	18.0	0.709	31.0	1.220	30.9	1.217	24.0	0.945	8.0	0.315
				0190	19.0	0.748	32.0	1.260	30.9	1.217	25.0	0.984	8.0	0.315
				0200	20.0	0.787	34.0	1.339	30.9	1.217	25.0	0.984	8.0	0.315
				0220	22.0	0.866	36.0	1.417	35.4	1.394	25.0	0.984	8.0	0.315
				0230	23.0	0.906	37.0	1.457	35.4	1.394	27.0	1.063	8.0	0.315
				0240	24.0	0.945	38.0	1.496	35.4	1.394	27.0	1.063	8.0	0.315
				0250	25.0	0.984	39.0	1.539	38.2	1.504	27.0	1.063	8.5	0.335
				0280	28.0	1.102	42.0	1.654	43.3	1.705	29.0	1.142	9.0	0.354
				0300	30.0	1.181	44.0	1.732	43.3	1.705	30.0	1.181	9.0	0.354
				0320	32.0	1.260	46.0	1.811	43.3	1.705	30.0	1.181	9.0	0.354
				0330	33.0	1.299	47.0	1.850	53.5	2.106	39.0	1.535	11.5	0.453
				0350	35.0	1.378	49.0	1.929	53.5	2.106	39.0	1.535	11.5	0.453
				0380	38.0	1.496	54.0	2.126	60.5	2.382	39.0	1.535	11.5	0.453
				0380-B	38.0	1.496	54.0	2.126	53.5	2.106	39.0	1.535	10.0	0.394
				0400	40.0	1.575	56.0	2.205	60.5	2.382	39.0	1.535	11.5	0.453
				0420	42.0	1.654	59.0	2.323	60.5	2.382	39.0	1.535	11.5	0.453
				0430	43.0	1.693	59.0	2.323	60.5	2.382	39.0	1.535	11.5	0.453
				0440	44.0	1.732	61.0	2.402	65.5	2.579	41.0	1.614	11.5	0.453
				0450	45.0	1.772	61.0	2.402	65.5	2.579	41.0	1.614	11.5	0.453
				0480	48.0	1.890	64.0	2.520	65.5	2.579	41.0	1.614	11.5	0.453
				0500	50.0	1.969	66.0	2.598	72.5	2.854	45.0	1.772	11.5	0.453
				0550	55.0	2.165	71.0	2.795	72.5	2.854	47.0	1.850	11.5	0.453
				0600	60.0	2.362	79.0	3.110	79.3	3.125	49.0	1.929	11.5	0.453
				0650	65.0	2.559	85.0	3.346	84.5	3.327	51.0	2.008	11.5	0.453
				0700	70.0	2.756	90.0	3.543	89.5	3.524	51.0	2.008	11.5	0.453
				0750	75.0	2.953	98.0	3.858	94.5	3.720	57.0	2.244	11.5	0.453
				0800	80.0	3.150	103.0	4.055	99.5	3.917	59.0	2.323	11.5	0.453
				0850	85.0	3.346	107.5	4.232	105.5	4.154	59.0	2.323	13.5	0.531
				0900	90.0	3.543	111.0	4.370	111.5	4.390	62.0	2.441	13.5	0.531
				0950	95.0	3.740	119.0	4.685	116.5	4.587	62.0	2.441	13.5	0.531
				1000	100.0	3.937	124.0	4.882	119.5	4.705	75.0	2.953	13.5	0.531

*Availability subject to order quantity

^Build Code R = Right Hand Spring, L = Left Hand Spring



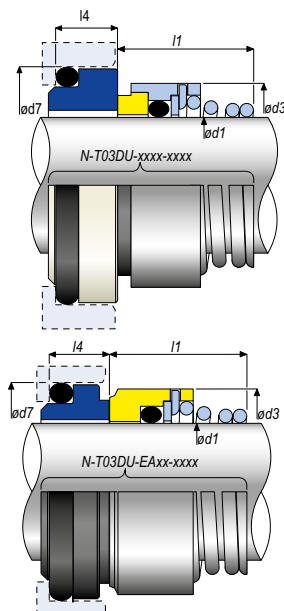
T03DU

Stock code: N-T03DU-XXXX-XXXX

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or B - Alumina Ceramic or D - Silicon Carbide (RB) or E - Stainless Steel or G - Tungsten Carbide* or J - Sintered SiC	A - Carbon or B - Alumina Ceramic or D - Silicon Carbide (RB) or G - Tungsten Carbide* or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

*Availability subject to order quantity

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



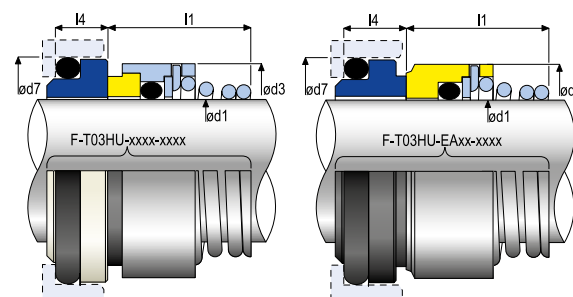
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	21.0	0.827	13.4	0.528	8.6	0.339
0120	12.0	0.472	22.0	0.866	23.0	0.906	16.4	0.646	8.6	0.339
0140	14.0	0.551	24.0	0.945	25.0	0.984	20.4	0.803	8.6	0.339
0160	16.0	0.63	26.0	1.024	27.0	1.063	21.4	0.843	8.6	0.339
0180	18.0	0.709	31.0	1.22	33.0	1.299	24.0	0.945	10.0	0.394
0200	20.0	0.787	34.0	1.339	35.0	1.378	25.0	0.984	10.0	0.394
0220	22.0	0.866	36.0	1.417	37.0	1.457	25.0	0.984	10.0	0.394
0240	24.0	0.945	38.0	1.496	39.0	1.535	27.0	1.063	10.0	0.394
0250	25.0	0.984	39.0	1.539	40.0	1.575	27.0	1.063	10.0	0.394
0280	28.0	1.102	42.0	1.654	43.0	1.693	29.0	1.142	10.0	0.394
0300	30.0	1.181	44.0	1.732	45.0	1.772	30.0	1.181	10.0	0.394
0320	32.0	1.26	46.0	1.811	48.0	1.89	30.0	1.181	10.0	0.394
0330	33.0	1.299	47.0	1.85	48.0	1.89	39.0	1.535	10.0	0.394
0350	35.0	1.378	49.0	1.929	50.0	1.969	39.0	1.535	10.0	0.394
0380	38.0	1.496	54.0	2.126	56.0	2.205	44.0	1.732	11.0	0.433
0400	40.0	1.575	56.0	2.205	58.0	2.283	44.0	1.732	11.0	0.433
0430	43.0	1.693	59.0	2.323	61.0	2.402	49.0	1.929	11.0	0.433
0450	45.0	1.772	61.0	2.402	63.0	2.48	49.0	1.929	11.0	0.433
0480	48.0	1.89	64.0	2.52	66.0	2.598	49.0	1.929	11.0	0.433
0500	50.0	1.969	66.0	2.598	70.0	2.756	47.0	1.85	13.0	0.512
0550	55.0	2.165	71.0	2.795	75.0	2.953	57.0	2.244	13.0	0.512
0600	60.0	2.362	79.0	3.11	80.0	3.15	57.0	2.244	13.0	0.512
0650	65.0	2.559	85.0	3.346	85.0	3.346	67.0	2.638	13.0	0.512
0700	70.0	2.756	90.0	3.543	92.0	3.622	64.7	2.547	15.3	0.602
0750	75.0	2.953	98.0	3.858	97.0	3.819	64.7	2.547	15.3	0.602
0800	80.0	3.15	103.0	4.055	105.0	4.134	74.3	2.925	15.7	0.453
0850	85.0	3.346	107.5	4.232	110.0	4.331	74.3	2.925	15.7	0.618
0900	90.0	3.543	111.0	4.37	115.0	4.528	74.3	2.925	15.7	0.618
0950	95.0	3.74	119.0	4.685	120.0	4.724	74.3	2.925	15.7	0.618
1000	100.0	3.937	124.0	4.882	125.0	4.921	74.3	2.925	15.7	0.618



T03HU



Stock code: F-T03HU-XXXX-XXXX



Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or E - Stainless Steel or J - Sintered SiC	A - Carbon or B - Ceramic or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0190	19.0	0.748	32.0	1.260	30.9	1.217	25.0	0.984	8.0	0.315
0280	28.0	1.102	42.0	1.654	43.3	1.705	29.0	1.142	9.0	0.354
0380	38.0	1.496	54.0	2.126	60.5	2.382	39.0	1.535	11.5	0.453

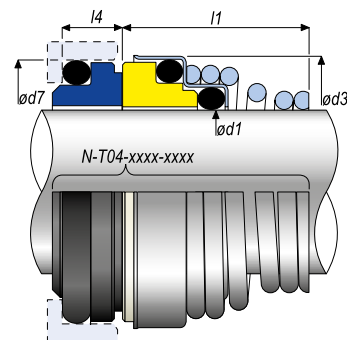


Taper Spring

T04



Stock code: N-T04-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
B - Alumina Ceramic or D - Silicon Carbide (RB)	A - Carbon or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	L Q R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring, Q = Stationary Only

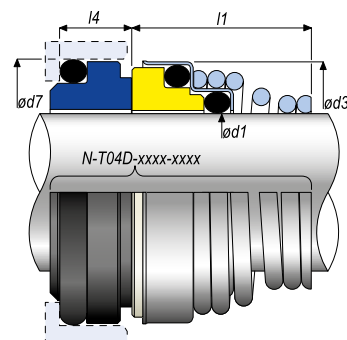
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.800	18.1	0.713	15.0	0.591	5.5	0.217
0110	11.0	0.433	22.0	0.866	20.6	0.811	18.0	0.709	5.5	0.217
0120	12.0	0.472	22.0	0.866	20.6	0.811	18.0	0.709	5.5	0.217
0130	13.0	0.512	25.0	0.984	23.1	0.909	22.0	0.866	6.0	0.236
0140	14.0	0.551	25.0	0.984	23.1	0.909	22.0	0.866	6.0	0.236
0140-B	14.0	0.551	25.0	0.984	23.1	0.909	16.6	0.654	6.0	0.236
0150	15.0	0.591	29.0	1.142	26.9	1.059	22.0	0.866	7.0	0.276
0160	16.0	0.630	29.0	1.142	26.9	1.059	23.0	0.906	7.0	0.276
0170	17.0	0.669	29.0	1.142	26.9	1.059	23.0	0.906	7.0	0.276
0180	18.0	0.709	33.0	1.299	30.9	1.217	24.0	0.945	8.0	0.315
0190	19.0	0.748	33.0	1.299	30.9	1.217	25.0	0.984	8.0	0.315
0200	20.0	0.787	33.0	1.299	30.9	1.217	25.0	0.984	8.0	0.315
0220	22.0	0.866	38.0	1.496	35.4	1.394	25.0	0.984	8.0	0.315
0230	23.0	0.906	38.0	1.496	35.4	1.394	27.0	1.063	8.0	0.315
0240	24.0	0.945	38.0	1.496	35.4	1.394	27.0	1.063	8.0	0.315
0250	25.0	0.984	40.0	1.575	38.2	1.504	27.0	1.063	8.5	0.335
0280	28.0	1.102	46.0	1.811	43.3	1.705	29.0	1.142	9.0	0.354
0300	30.0	1.181	46.0	1.811	43.3	1.705	30.0	1.181	9.0	0.354
0320	32.0	1.260	46.0	1.811	43.3	1.705	30.0	1.181	9.0	0.354
0330	33.0	1.299	48.0	1.890	53.5	2.106	39.0	1.535	11.5	0.453
0350	35.0	1.378	50.0	1.969	53.5	2.106	39.0	1.535	11.5	0.453
0380	38.0	1.496	56.0	2.205	60.5	2.382	39.0	1.535	11.5	0.453
0400	40.0	1.575	58.0	2.283	60.5	2.382	39.0	1.535	11.5	0.453



T04D



Stock code: N-T04D-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
B - Alumina Ceramic or D - Silicon Carbide (RB)	A - Carbon or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	L Q R

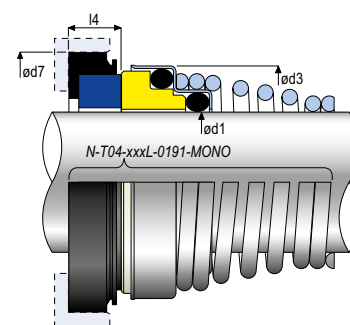
[^]Build Code R = Right Hand Spring, L = Left Hand Spring, Q = Stationary Only

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	21.0	0.827	15.0	0.591	7.0	0.276
0120	12.0	0.472	22.0	0.866	23.0	0.906	18.0	0.709	7.0	0.276
0140	14.0	0.551	25.0	0.984	25.0	0.984	22.0	0.866	7.0	0.276
0160	16.0	0.630	29.0	1.142	27.0	1.063	23.0	0.906	7.0	0.276
0180	18.0	0.709	33.0	1.299	33.0	1.299	24.0	0.945	10.0	0.394
0200	20.0	0.787	33.0	1.299	35.0	1.378	25.0	0.984	10.0	0.394
0220	22.0	0.866	38.0	1.496	37.0	1.457	25.0	0.984	10.0	0.394
0240	24.0	0.945	38.0	1.469	39.0	1.535	27.0	1.063	10.0	0.394
0250	25.0	0.984	40.0	1.575	40.0	1.575	27.0	1.063	10.0	0.394
0280	28.0	1.102	46.0	1.811	43.0	1.693	29.0	1.142	10.0	0.394
0300	30.0	1.181	46.0	1.811	45.0	1.772	30.0	1.181	10.0	0.394
0320	32.0	1.260	46.0	1.811	48.0	1.890	30.0	1.181	10.0	0.394
0330	33.0	1.299	48.0	1.890	48.0	1.890	39.0	1.535	10.0	0.394
0350	35.0	1.378	50.0	1.968	50.0	1.969	39.0	1.535	10.0	0.394
0380	38.0	1.496	56.0	2.205	56.0	2.205	42.0	1.654	13.0	0.512
0400	40.0	1.575	58.0	2.283	58.0	2.283	42.0	1.654	13.0	0.512



T04-MONO

Stock code: N-T04-**xxxx**-0191-MONO

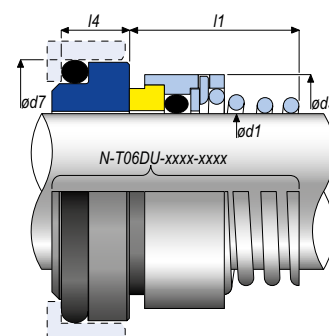


Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	Y - EPR (EPDM)	L	0191-MONO	19.1	0.752	32.7	1.287	38.0	1.496	8.0	0.315



T06DU

Stock code: N-T06DU-**xxxx**-**xxxx**



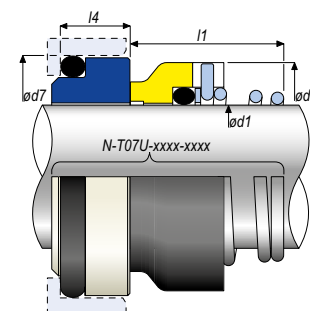
Rotary Face	Stationary Face	Elastomer	Build Code [^]	Size	d1		d3		d7		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
A - Carbon or D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L	0120	12.0	0.472	21.0	0.827	23.0	0.906	25.5	1.004	7.0	0.276
			R	0160	16.0	0.630	26.0	1.024	27.0	1.063	28.0	1.102	7.0	0.276

[^]Build Code R = Right Hand Spring, L = Left Hand Spring



T07U

Stock code: N-T07U-**xxxx**-**xxxx**



Rotary Face	Stationary Face	Elastomer	Build Code [^]	Size	d1		d3		d7		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
A - Carbon	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R	0100	10.0	0.394	20.0	0.787	19.2	0.756	15.9	0.626	6.6	0.260
				0120	12.0	0.472	22.0	0.866	21.6	0.850	16.0	0.630	5.6	0.220
				0140	14.0	0.551	25.0	0.984	24.6	0.969	16.0	0.630	5.6	0.220
				0150	15.0	0.591	27.0	1.063	24.6	0.969	17.4	0.685	6.6	0.260
				0160	16.0	0.630	27.0	1.063	28.0	1.102	19.0	0.748	7.5	0.295
				0180	18.0	0.709	30.0	1.181	30.0	1.181	20.5	0.807	8.0	0.315
				0200	20.0	0.787	32.0	1.260	35.0	1.378	22.0	0.866	7.5	0.295
				0220	22.0	0.866	35.0	1.378	35.0	1.378	23.5	0.925	7.5	0.295
				0240	24.0	0.945	38.0	1.496	38.0	1.496	25.0	0.984	7.5	0.295
				0250	25.0	0.984	40.0	1.575	38.0	1.496	26.5	1.043	7.5	0.295
				0280	28.0	1.102	43.0	1.693	42.0	1.654	26.5	1.043	9.0	0.354
				0300	30.0	1.181	45.0	1.772	45.0	1.772	25.0	0.984	10.5	0.413
				0320	32.0	1.260	47.0	1.850	48.0	1.890	28.5	1.122	10.5	0.413
				0350	35.0	1.378	50.0	1.969	52.0	2.047	28.5	1.122	11.0	0.433
				0380	38.0	1.496	56.0	2.205	55.0	2.165	32.0	1.260	10.3	0.406

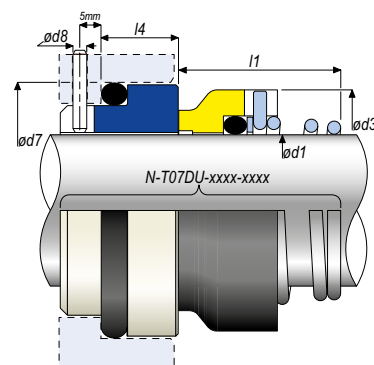
[^]Build Code R = Right Hand Spring, L = Left Hand Spring



Taper Spring

T07DU

Stock code: N-T07DU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

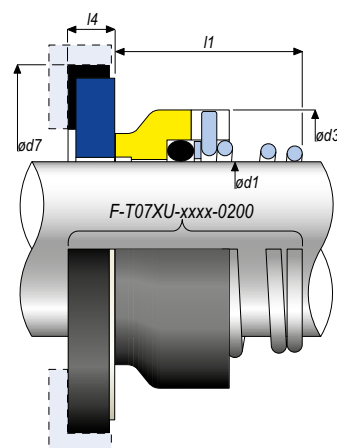
[^]Build Code R = Right Hand Spring, L = Left Hand Spring

Size	d1		d3		d7		d8		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0100	10.0	0.394	20.0	0.787	21.0	0.827	3.0	0.118	17.5	0.689	10.0	0.394
0120	12.0	0.472	22.0	0.866	23.0	0.906	3.0	0.118	17.5	0.689	10.0	0.394
0140	14.0	0.551	25.0	0.984	25.0	0.984	3.0	0.118	17.5	0.689	10.0	0.394
0160	16.0	0.630	27.0	1.063	27.0	1.063	3.0	0.118	19.5	0.768	10.0	0.394
0180	18.0	0.709	30.0	1.181	33.0	1.299	3.0	0.118	20.5	0.807	11.5	0.453
0200	20.0	0.787	32.0	1.260	35.0	1.378	3.0	0.118	22.0	0.866	11.5	0.453
0220	22.0	0.866	35.0	1.378	37.0	1.457	3.0	0.118	23.5	0.925	11.5	0.453
0240	24.0	0.945	38.0	1.496	39.0	1.535	3.0	0.118	25.0	0.984	11.5	0.453
0250	25.0	0.984	40.0	1.575	40.0	1.575	3.0	0.118	26.5	1.043	11.5	0.453
0280	28.0	1.102	43.0	1.693	43.0	1.693	3.0	0.118	26.5	1.043	11.5	0.453
0300	30.0	1.181	45.0	1.772	45.0	1.772	3.0	0.118	25.0	0.984	11.5	0.453
0320	32.0	1.260	47.0	1.850	48.0	1.890	3.0	0.118	28.5	1.122	11.5	0.453
0350	35.0	1.378	50.0	1.969	50.0	1.969	3.0	0.118	28.5	1.122	11.5	0.453
0380	38.0	1.496	56.0	2.205	56.0	2.205	4.0	0.157	32.0	1.260	14.0	0.551



T07XU

Stock code: F-T07XU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon	B - Alumina Ceramic or D - Silicon Carbide (RB) or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	L R

[^]Build Code R = Right Hand Spring, L = Left Hand Spring

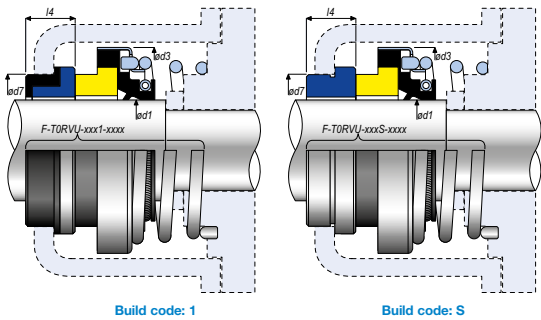
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	32.0	1.260	42.0	1.654	17.6	0.693	5.4	0.213



TORVU



Stock code: F-TORVU-xxxx-xxxx



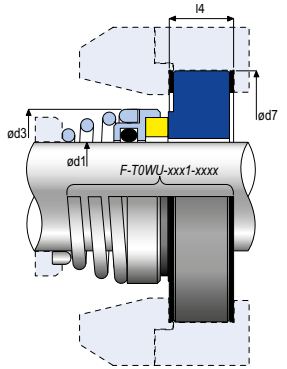
Rotary Face	Stationary Face	Elastomer
A - Carbon or D - Silicon Carbide (RB) or J - Sintered SiC	D - Silicon Carbide (RB) or E - Stainless Steel or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)

Size	d1		d3		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	40.6	1.598	30.0	1.181	9.8	0.386
0250	25.0	0.984	45.5	1.791	35.0	1.378	9.8	0.386
0300	30.0	1.181	57.0	2.244	42.0	1.654	13.0	0.512
0350	35.0	1.378	63.0	2.480	46.0	1.811	12.0	0.472

TOWU



Stock code: F-TOWU-xxxx-xxxx



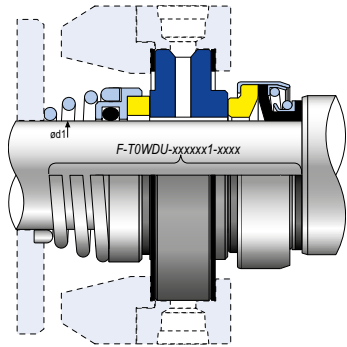
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide or J - Sintered SiC	G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

Size	d1		d3		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0250	25.0	0.984	38.2	1.504	51.5	2.028	17.2	0.675
0350	35.0	1.378	49.5	1.949	62.0	2.441	17.4	0.685

TOWDU



Stock code: F-TOWDU-xxxxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Stationary Face	Rotary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	R

Size	d1	
	Metric	Inches
0250	25.0	0.984
0350	35.0	1.378

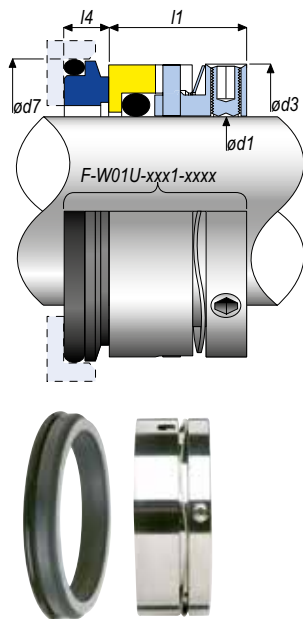
Wave Spring

W01U

Stock code: F-W01U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P Q

[^]Build Code 1 = Complete Seal, P = Rotary Only, Q = Stationary Only



Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0158	15.8	0.622	27.0	1.063	28.6	1.126	19.1	0.752	6.3	0.248
0160	16.0	0.630	27.0	1.063	28.6	1.126	19.1	0.752	6.3	0.248
0191	19.1	0.752	30.0	1.181	31.7	1.248	19.1	0.752	6.3	0.248
0240	24.0	0.945	34.1	1.343	35.4	1.394	19.1	0.752	7.6	0.299
0280	28.0	1.102	40.0	1.575	42.0	1.654	19.1	0.752	7.6	0.299
0286	28.6	1.126	39.5	1.555	41.2	1.622	19.1	0.752	7.6	0.299
0300	30.0	1.181	41.0	1.614	42.7	1.681	19.1	0.752	7.6	0.299
0317	31.7	1.248	42.4	1.669	44.2	1.740	19.1	0.752	7.6	0.299
0320	32.0	1.260	42.4	1.669	44.4	1.748	19.1	0.752	7.6	0.299
0349	34.9	1.374	45.5	1.791	47.6	1.874	19.1	0.752	7.6	0.299
0350	35.0	1.378	45.5	1.791	47.6	1.874	19.1	0.752	7.6	0.299
0380	38.0	1.496	51.8	2.039	53.9	2.122	21.1	0.831	8.1	0.319
0381	38.1	1.500	51.8	2.039	53.9	2.122	21.1	0.831	8.1	0.319
0444	44.4	1.748	58.2	2.291	60.3	2.374	21.1	0.831	8.1	0.319
0476	47.6	1.874	61.4	2.417	63.5	2.500	21.1	0.831	8.1	0.319
0500	50.0	1.969	61.9	2.437	63.9	2.516	21.1	0.831	8.1	0.319
0508	50.8	2.000	64.6	2.543	66.6	2.622	22.1	0.870	9.6	0.378
0539	53.9	2.122	71.0	2.795	73.0	2.874	22.1	0.870	9.6	0.378
0540	54.0	2.126	71.0	2.795	73.9	2.909	22.1	0.870	9.6	0.378
0546	54.6	2.150	72.0	2.835	75.0	2.953	22.1	0.870	9.6	0.378
0550	55.0	2.165	72.0	2.835	75.0	2.953	22.1	0.870	9.6	0.378
0630	63.0	2.480	79.3	3.122	83.0	3.268	25.8	1.016	9.1	0.358
0635	63.5	2.500	79.3	3.122	88.9	3.500	25.8	1.016	9.1	0.358
0698	69.8	2.748	88.9	3.500	95.2	3.748	25.8	1.016	9.1	0.358
0730	73.0	2.874	94.0	3.701	98.4	3.874	25.8	1.016	9.1	0.358
0750	75.0	2.953	96.0	3.780	100.4	3.953	25.8	1.016	9.1	0.358
0800	80.0	3.150	101.0	3.976	104.0	4.094	25.8	1.016	9.1	0.358



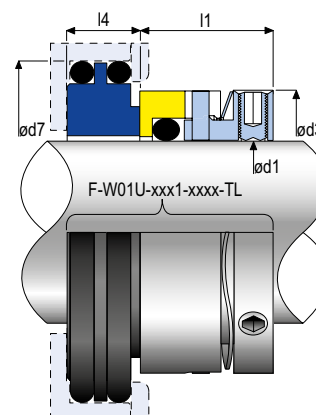
W01U-TL



Stock code: F-W01U-xxxx-xxxx-TL

Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	41.0	1.614	48.0	1.890	19.1	0.752	10.3	0.406
0350	35.0	1.378	45.5	1.791	55.0	2.165	19.1	0.752	12.0	0.472
0500	50.0	1.969	61.9	2.437	72.0	2.835	21.1	0.831	12.0	0.472

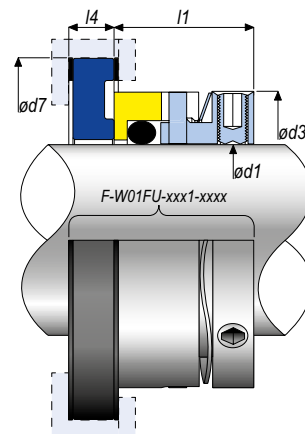


W01FU

Why upgrade?

- Mechanical seal technology improves machinery reliability

Stock code: F-W01FU-xxxx-xxxx



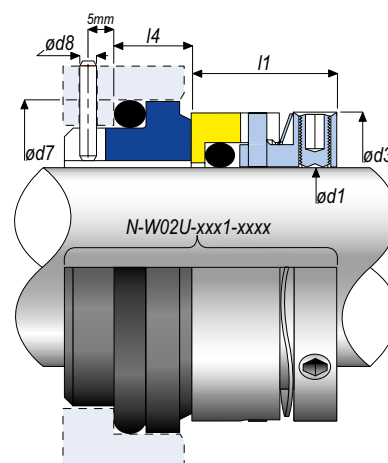
Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	Y - EPDM (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0220	22.0	0.866	33.0	1.300	45.0	1.771	19.1	0.750	8.0	0.315
0380	38.0	1.496	51.8	2.039	62.0	2.441	21.1	0.831	8.0	0.315



W02U

Stock code: N-W02U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or D - Silicon Carbide (RB)	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 Q

[^]Build Code 1 = Complete Seal, Q = Stationary Only
For rotary only use respective W01U size

	d1		d3		d7		d8		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0160	16.0	0.630	27.0	1.063	27.0	1.063	4.0	0.157	19.1	0.750	8.6	0.339
0200	20.0	0.787	31.0	1.220	35.0	1.378	4.0	0.157	19.1	0.750	10.0	0.394
0220	22.0	0.866	33.0	1.299	37.0	1.457	4.0	0.157	19.1	0.750	10.0	0.394
0240	24.0	0.945	34.1	1.343	39.0	1.535	4.0	0.157	19.1	0.750	10.0	0.394
0250	25.0	0.984	35.2	1.386	40.0	1.575	4.0	0.157	19.1	0.750	10.0	0.394
0280	28.0	1.102	40.0	1.575	43.0	1.693	4.0	0.157	19.1	0.750	10.0	0.394
0300	30.0	1.181	41.0	1.614	45.0	1.772	4.0	0.157	19.1	0.750	10.0	0.394
0320	32.0	1.260	42.4	1.669	48.0	1.890	4.0	0.157	19.1	0.750	10.0	0.394
0330	33.0	1.299	44.0	1.732	48.0	1.890	4.0	0.157	19.1	0.750	10.0	0.394
0350	35.0	1.378	45.4	1.791	50.0	1.969	4.0	0.157	19.1	0.750	10.0	0.394
0380	38.0	1.496	51.8	2.039	56.0	2.205	4.0	0.157	21.1	0.831	11.0	0.433
0400	40.0	1.575	53.8	2.118	58.0	2.283	4.0	0.157	21.1	0.831	11.0	0.433
0430	43.0	1.693	56.0	2.205	61.0	2.402	4.0	0.157	21.1	0.831	11.0	0.433
0450	45.0	1.772	58.2	2.291	63.0	2.480	4.0	0.157	21.1	0.831	11.0	0.433
0480	48.0	1.890	61.4	2.417	66.0	2.598	4.0	0.157	21.1	0.831	11.0	0.433
0500	50.0	1.969	61.9	2.437	70.0	2.756	4.0	0.157	21.1	0.831	13.0	0.512
0550	55.0	2.165	72.0	2.835	75.0	2.953	4.0	0.157	22.1	0.870	13.0	0.512
0600	60.0	2.362	76.0	2.992	80.0	3.150	4.0	0.157	25.8	1.016	13.0	0.512
0630	63.0	2.480	79.3	3.122	83.0	3.268	4.0	0.157	25.8	1.016	13.0	0.512
0650	65.0	2.559	82.3	3.240	85.0	3.346	4.0	0.157	25.8	1.016	13.0	0.512
0700	70.0	2.756	88.9	3.500	92.0	3.622	4.0	0.157	25.8	1.016	15.3	0.602
0750	75.0	2.953	96.0	3.780	97.0	3.819	4.0	0.157	25.8	1.016	15.3	0.602

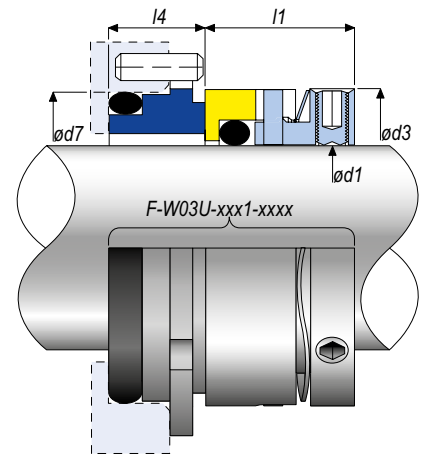


Wave Spring

W03U



Stock code: F-W03U-xxxx-xxxx



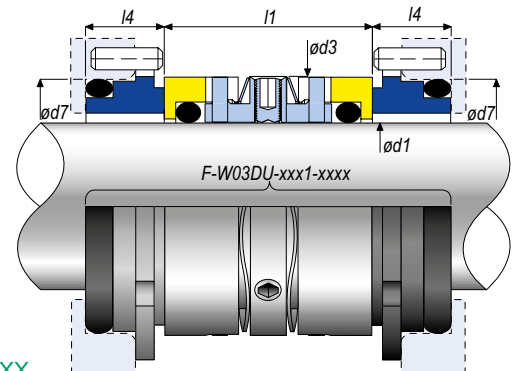
Rotary Face	Stationary Face	Elastomer	Build Code [^]
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 Q

[^]Build Code 1 = Complete Seal, Q = Stationary Only
For rotary only use respective W01U size

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	31.0	1.220	30.0	1.181	19.1	0.752	10.7	0.421
0300	30.0	1.181	41.0	1.614	41.2	1.622	19.1	0.752	10.9	0.429
0350	35.0	1.378	45.5	1.791	47.0	1.850	19.1	0.752	12.2	0.480
0450	45.0	1.772	58.2	2.291	58.3	2.295	21.1	0.831	11.6	0.457
0550	55.0	2.165	72.0	2.835	69.6	2.740	22.1	0.870	13.0	0.512
0750	75.0	2.953	96.0	3.780	92.2	3.630	25.8	1.016	14.5	0.571



W03DU



Stock code: F-W03DU-xxxxxxx-xxxx
(Size)

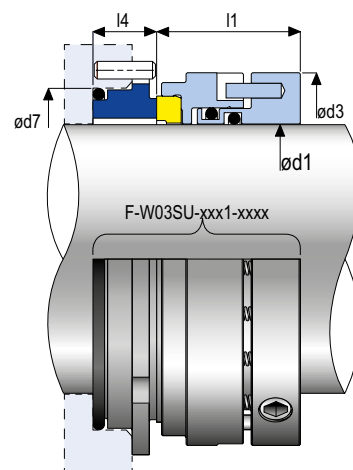
Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM)	E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	41.0	1.614	41.2	1.622	31.2	1.228	10.9	0.429
0350	35.0	1.378	45.5	1.791	47.0	1.850	31.3	1.224	12.2	0.480
0450	45.0	1.772	58.2	2.291	58.3	2.295	35.3	1.389	11.6	0.457
0550	55.0	2.165	72.0	2.835	69.6	2.740	43.7	1.720	13.0	0.512
0750	75.0	2.953	96.0	3.780	92.2	3.630	46.6	1.835	14.5	0.571



W03SU

Stock code: F-W03SU-xxxx-xxxx



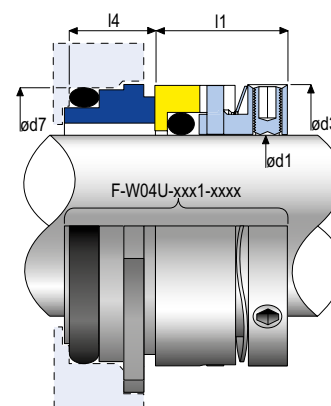
Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1 Metric	d1 Inches	d3 Metric	d3 Inches	d7 Metric	d7 Inches	I1 Metric	I1 Inches	I4 Metric	I4 Inches
E - Stainless Steel or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1	0200	20.0	0.787	32.4	1.276	30.0	1.181	20.0	0.787	10.7	0.421
				0300	30.0	1.181	44.0	1.732	41.2	1.622	21.4	0.843	10.9	0.429
				0350	35.0	1.378	50.8	2.000	47.0	1.850	22.0	0.866	12.2	0.480
				0450	45.0	1.772	62.4	2.457	58.3	2.295	22.9	0.902	11.6	0.457
				0550	55.0	2.165	76.0	2.992	69.6	2.740	29.3	1.154	13.0	0.512
				0750	75.0	2.953	99.2	3.906	92.2	3.630	31.1	1.224	14.5	0.571



W04U



Stock code: F-W04U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code [^]	Size	d1 Metric	d1 Inches	d3 Metric	d3 Inches	d7 Metric	d7 Inches	I1 Metric	I1 Inches	I4 Metric	I4 Inches
E - Stainless Steel or G - Tungsten Carbide	A - Carbon or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1	0300	30.0	1.181	41.0	1.614	40.0	1.575	19.1	0.752	9.3	0.366
			Q	0350	35.0	1.378	45.5	1.791	44.5	1.752	19.1	0.752	9.2	0.362
				0500	50.0	1.969	61.9	2.437	62.0	2.441	21.1	0.831	10.4	0.409
				0700	70.0	2.756	88.9	3.500	85.0	3.346	25.8	1.016	14.1	0.555
				0800	80.0	3.150	101.0	3.976	95.0	3.740	25.8	1.016	16.2	0.638

[^]Build Code 1 = Complete Seal, Q = Stationary Only
For rotary only use respective W01U size



Wave Spring

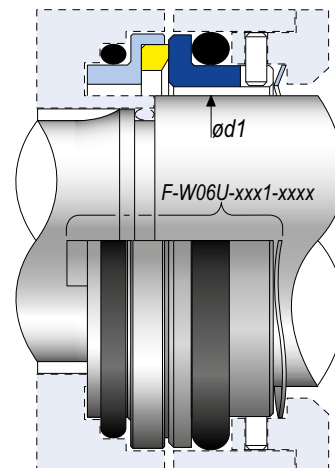
W06U



Stock code: F-W06U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide or J - Sintered SiC	E - Stainless Steel or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0240	24.0	0.945
0420	42.0	1.654
0530	53.0	2.087
0750	75.0	2.953



W07DMU

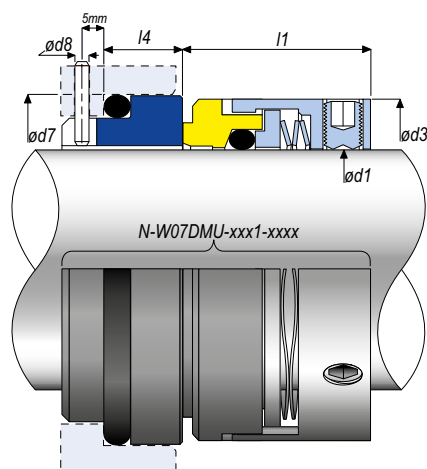


Stock code: N-W07DMU-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code [^]
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	J - Sintered SiC	P - PTFE wrapped Viton or X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1 P

*Availability subject to order quantity

[^]Build Code 1 = Complete Seal, P = Rotary Only



Size	d1		d3		d7		d8		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0140	14.0	0.551	25.0	0.984	25.0	0.984	3.0	0.118	25.0	0.984	10.0	0.394
0160	16.0	0.630	26.5	1.043	27.0	1.063	3.0	0.118	25.0	0.984	10.0	0.394
0180	18.0	0.709	32.0	1.260	33.0	1.299	3.0	0.118	26.0	1.024	11.5	0.453
0200	20.0	0.787	34.0	1.339	35.0	1.378	3.0	0.118	26.0	1.024	11.5	0.453
0220	22.0	0.866	36.0	1.417	37.0	1.457	3.0	0.118	26.0	1.024	11.5	0.453
0240	24.0	0.945	38.0	1.496	39.0	1.535	3.0	0.118	28.5	1.122	11.5	0.453
0250	25.0	0.984	39.0	1.535	40.0	1.575	3.0	0.118	28.5	1.122	11.5	0.453
0280	28.0	1.102	42.0	1.654	43.0	1.693	3.0	0.118	31.0	1.220	11.5	0.453
0300	30.0	1.181	44.0	1.732	45.0	1.772	3.0	0.118	31.0	1.220	11.5	0.453
0320	32.0	1.260	46.0	1.811	48.0	1.890	3.0	0.118	31.0	1.220	11.5	0.453
0330	33.0	1.299	47.0	1.850	48.0	1.890	3.0	0.118	31.0	1.220	11.5	0.453
0350	35.0	1.378	49.0	1.929	50.0	1.969	3.0	0.118	31.0	1.220	11.5	0.453
0380	38.0	1.496	54.0	2.126	56.0	2.205	4.0	0.157	31.0	1.220	14.0	0.551
0400	40.0	1.575	56.0	2.205	58.0	2.283	4.0	0.157	31.0	1.220	14.0	0.551
0430	43.0	1.693	59.0	2.323	61.0	2.402	4.0	0.157	31.0	1.220	14.0	0.551
0450	45.0	1.772	61.0	2.402	63.0	2.480	4.0	0.157	31.0	1.220	14.0	0.551
0480	48.0	1.890	64.0	2.520	66.0	2.598	4.0	0.157	31.0	1.220	14.0	0.551
0500	50.0	1.969	66.0	2.598	70.0	2.756	4.0	0.157	32.5	1.280	15.0	0.591
0530	53.0	2.087	69.0	2.717	73.0	2.874	4.0	0.157	32.5	1.280	15.0	0.591
0550	55.0	2.165	71.0	2.795	75.0	2.953	4.0	0.157	32.5	1.280	15.0	0.591
0580	58.0	2.283	78.0	3.071	78.0	3.071	4.0	0.157	37.5	1.476	15.0	0.591
0600	60.0	2.362	80.0	3.150	80.0	3.150	4.0	0.157	37.5	1.476	15.0	0.591
0630	63.0	2.480	83.0	3.268	83.0	3.268	4.0	0.157	37.5	1.476	15.0	0.591
0650	65.0	2.559	85.0	3.346	85.0	3.346	4.0	0.157	37.5	1.476	15.0	0.591
0680	68.0	2.677	88.0	3.465	90.0	3.543	4.0	0.157	34.5	1.358	18.0	0.709
0700	70.0	2.756	90.0	3.543	92.0	3.622	4.0	0.157	42.0	1.654	18.0	0.709
0750	75.0	2.953	99.0	3.898	97.0	3.819	4.0	0.157	42.0	1.654	18.0	0.709
0800	80.0	3.150	104.0	4.094	105.0	4.134	4.0	0.157	41.8	1.646	18.2	0.717
0850	85.0	3.346	109.0	4.291	110.0	4.331	4.0	0.157	41.8	1.646	18.2	0.717
0900	90.0	3.543	114.0	4.488	115.0	4.528	4.0	0.157	46.8	1.843	18.2	0.717
0950	95.0	3.740	119.0	4.685	120.0	4.724	4.0	0.157	47.8	1.882	17.2	0.677
1000	100.0	3.937	124.0	4.882	125.0	4.921	4.0	0.157	47.8	1.882	17.2	0.677
1100	110.0	4.330	134.0	5.276	140.0	5.524	4.0	0.157	47.8	1.850	20.0	0.787



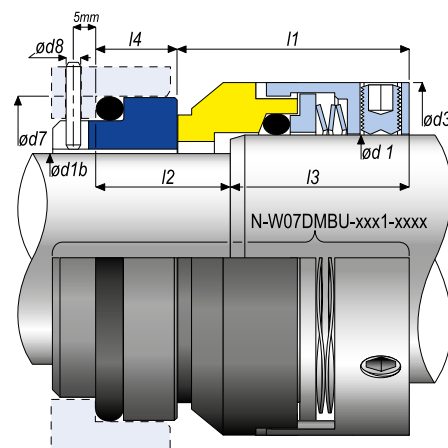
W07DMBU

Stock code: N-W07DMBU-XXXX-XXXX
(Size)

Rotary Face	Stationary Face	Elastomer	Build Code ^a
A - Carbon or H - Antimony Carbon* or J - Sintered SiC*	J - Sintered SiC	P - PTFE wrapped Viton or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1 P

*Availability subject to order quantity

^aBuild Code 1 = Complete Seal, P = Rotary Only



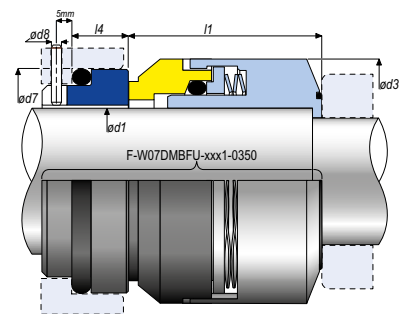
Size	d1		d1b		d3		d7		d8		l1		l2		l3		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0180	18.0	0.709	14.0	0.551	32.0	1.260	25.0	0.984	3.0	0.118	32.5	1.280	18.0	0.709	24.5	0.965	10.0	0.394
0200	20.0	0.787	16.0	0.630	34.0	1.339	27.0	1.063	3.0	0.118	32.5	1.280	18.0	0.709	24.5	0.965	10.0	0.394
0220	22.0	0.866	18.0	0.709	36.0	1.417	33.0	1.299	3.0	0.118	33.5	1.319	20.0	0.787	25.0	0.984	11.5	0.453
0240	24.0	0.945	20.0	0.787	38.0	1.496	35.0	1.378	3.0	0.118	33.5	1.319	20.0	0.787	25.0	0.984	11.5	0.453
0280	28.0	1.102	24.0	0.945	42.0	1.654	39.0	1.535	3.0	0.118	36.0	1.471	20.0	0.787	27.5	1.083	11.5	0.453
0300	30.0	1.181	25.0	0.984	44.0	1.732	40.0	1.575	3.0	0.118	36.0	1.471	20.0	0.787	27.5	1.083	11.5	0.453
0330	33.0	1.299	28.0	1.102	47.0	1.850	43.0	1.693	3.0	0.118	38.5	1.516	20.0	0.787	30.0	1.181	11.5	0.453
0350	35.0	1.378	30.0	1.181	49.0	1.929	45.0	1.772	3.0	0.118	38.5	1.516	20.0	0.787	30.0	1.181	11.5	0.453
0380	38.0	1.496	33.0	1.299	54.0	2.126	48.0	1.890	4.0	0.157	38.5	1.516	20.0	0.787	30.0	1.181	11.5	0.453
0400	40.0	1.575	35.0	1.378	56.0	2.205	50.0	1.969	4.0	0.157	38.5	1.516	20.0	0.787	30.0	1.181	11.5	0.453
0430	43.0	1.693	38.0	1.496	59.0	2.323	56.0	2.205	4.0	0.157	38.5	1.516	23.0	0.906	29.5	1.161	14.0	0.551
0450	45.0	1.772	40.0	1.575	61.0	2.402	58.0	2.283	4.0	0.157	38.5	1.516	23.0	0.906	29.5	1.161	14.0	0.551
0480	48.0	1.890	43.0	1.693	64.0	2.520	61.0	2.402	4.0	0.157	38.5	1.516	23.0	0.906	29.5	1.161	14.0	0.551
0500	50.0	1.969	45.0	1.772	66.0	2.598	63.0	2.480	4.0	0.157	38.5	1.516	23.0	0.906	29.5	1.161	14.0	0.551
0530	53.0	2.087	48.0	1.890	69.0	2.717	66.0	2.598	4.0	0.157	38.5	1.516	23.0	0.906	29.5	1.161	14.0	0.551
0550	55.0	2.165	50.0	1.969	71.0	2.795	70.0	2.756	4.0	0.157	42.5	1.673	25.0	0.984	32.5	1.280	15.0	0.591
0580	58.0	2.283	53.0	2.087	78.0	3.071	73.0	2.874	4.0	0.157	42.5	1.673	25.0	0.984	32.5	1.280	15.0	0.591
0600	60.0	2.362	55.0	2.165	80.0	3.150	75.0	2.953	4.0	0.157	42.5	1.673	25.0	0.984	32.5	1.280	15.0	0.591
0630	63.0	2.480	58.0	2.283	83.0	3.268	78.0	3.071	4.0	0.157	47.5	1.870	25.0	0.984	37.5	1.280	15.0	0.591
0650	65.0	2.559	60.0	2.362	85.0	3.346	80.0	3.150	4.0	0.157	47.5	1.870	25.0	0.984	37.5	1.280	15.0	0.591
0680	68.0	2.677	63.0	2.480	88.0	3.465	83.0	3.268	4.0	0.157	47.5	1.870	25.0	0.984	37.5	1.280	15.0	0.591
0700	70.0	2.756	65.0	2.559	90.0	3.543	85.0	3.346	4.0	0.157	47.5	1.870	25.0	0.984	37.5	1.280	15.0	0.591
0750	75.0	2.953	70.0	2.756	99.0	3.898	92.0	3.622	4.0	0.157	52.0	2.047	28.0	1.102	42.0	1.654	18.0	0.709
0800	80.0	3.150	75.0	2.953	104.0	4.094	97.0	3.819	4.0	0.157	52.0	2.047	28.0	1.102	42.0	1.654	18.0	0.709
0850	85.0	3.346	80.0	3.150	109.0	4.291	105.0	4.134	4.0	0.157	51.8	2.040	28.0	1.102	42.0	1.654	18.2	0.717
0900	90.0	3.543	85.0	3.346	114.0	4.488	110.0	4.331	4.0	0.157	56.8	2.236	28.0	1.102	47.0	1.850	18.2	0.717
0950	95.0	3.740	90.0	3.543	119.0	4.685	115.0	4.528	4.0	0.157	56.8	2.236	28.0	1.102	47.0	1.850	18.2	0.717
1000	100.0	3.937	95.0	3.740	124.0	4.882	120.0	4.724	4.0	0.157	57.8	2.276	28.0	1.102	47.0	1.850	17.2	0.677



Wave Spring

W07DMBFU

Stock code: F-W07DMBFU-xxxx-0350



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC*	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

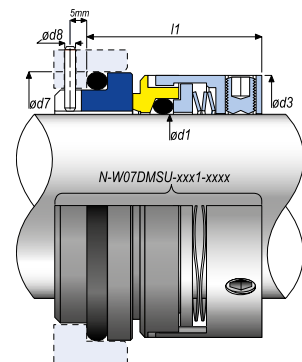
*Availability subject to order quantity

	d1		d3		d7		l1		l4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0350	35.0	1.378	56.0	2.205	50.0	1.969	44.5	1.752	11.5	0.453



W07DMSU

Stock code: N-W07DMSU-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC or H - Antimony Carbon*	J - Sintered SiC	P - PTFE wrapped Viton or X - Nitrile (BUNA) or Y - EPDM (EPDM) or Z - Viton (FPM)	1

*Availability subject to order quantity

	d1		d3		d7		d8		l1	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0160	16.0	0.630	26.5	1.043	27.0	1.063	3.0	0.118	28.5	1.122
0180	18.0	0.709	32.0	1.260	33.0	1.299	3.0	0.118	30.5	1.201
0200	20.0	0.787	34.0	1.339	35.0	1.378	3.0	0.118	30.5	1.201
0220	22.0	0.866	36.0	1.417	37.0	1.457	3.0	0.118	30.5	1.201
0240	24.0	0.945	38.0	1.496	39.0	1.535	3.0	0.118	32.5	1.280
0250	25.0	0.984	39.0	1.535	40.0	1.575	3.0	0.118	33.5	1.319
0280	28.0	1.102	42.0	1.654	43.0	1.693	3.0	0.118	33.5	1.319
0300	30.0	1.181	44.0	1.732	45.0	1.772	3.0	0.118	34.5	1.358
0320	32.0	1.260	46.0	1.811	48.0	1.890	3.0	0.118	34.5	1.358
0330	33.0	1.299	47.0	1.850	48.0	1.890	3.0	0.118	34.5	1.358
0350	35.0	1.378	49.0	1.929	50.0	1.969	3.0	0.118	34.5	1.358
0380	38.0	1.496	54.0	2.126	56.0	2.205	4.0	0.157	38.0	1.496
0400	40.0	1.575	56.0	2.205	58.0	2.283	4.0	0.157	39.0	1.535
0430	43.0	1.693	59.0	2.323	61.0	2.402	4.0	0.157	39.0	1.535
0450	45.0	1.772	61.0	2.402	63.0	2.480	4.0	0.157	39.0	1.535
0480	48.0	1.890	64.0	2.520	66.0	2.598	4.0	0.157	39.0	1.535
0500	50.0	1.969	66.0	2.598	70.0	2.756	4.0	0.157	40.0	1.575
0530	53.0	2.087	69.0	2.717	73.0	2.874	4.0	0.157	40.0	1.575
0550	55.0	2.165	71.0	2.795	75.0	2.953	4.0	0.157	40.0	1.575
0580	58.0	2.283	78.0	3.071	78.0	3.071	4.0	0.157	42.0	1.654
0600	60.0	2.362	80.0	3.150	80.0	3.150	4.0	0.157	42.0	1.654
0630	63.0	2.480	83.0	3.268	83.0	3.268	4.0	0.157	45.0	1.772
0650	65.0	2.559	85.0	3.346	85.0	3.346	4.0	0.157	45.0	1.772
0680	68.0	2.677	88.0	3.465	90.0	3.543	4.0	0.157	47.0	1.850
0700	70.0	2.756	90.0	3.543	92.0	3.622	4.0	0.157	47.0	1.850
0750	75.0	2.953	99.0	3.898	97.0	3.819	4.0	0.157	47.0	1.850
0800	80.0	3.150	104.0	4.094	105.0	4.134	4.0	0.157	48.0	1.890
0850	85.0	3.346	109.0	4.291	110.0	4.331	4.0	0.157	48.0	1.890
0900	90.0	3.543	114.0	4.488	115.0	4.528	4.0	0.157	54.0	2.126
0950	95.0	3.740	119.0	4.685	120.0	4.724	4.0	0.157	54.0	2.126
1000	100.0	3.937	124.0	4.882	125.0	4.921	4.0	0.157	54.0	2.126



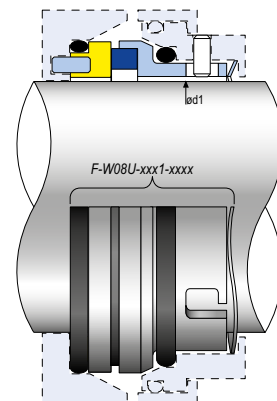
W08U



Stock code: F-W08U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide	E - Stainless Steel or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0480	48.0	1.899
0540	54.0	2.125



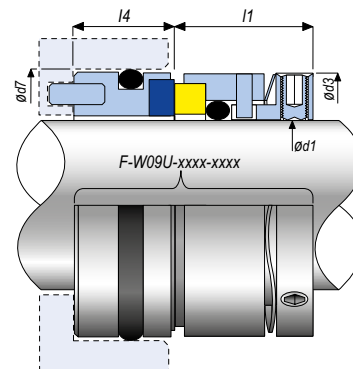
W09U



Stock code: F-W09U-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	E - Stainless Steel or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0150	15.0	0.591	26.0	1.024	27.0	1.063	20.9	0.823	9.3	0.366
0301	30.1	1.185	40.9	1.610	42.0	1.654	20.6	0.811	14.0	0.551
0349	34.9	1.374	47.6	1.874	47.6	1.874	20.6	0.811	15.8	0.622
0508	50.8	2.000	65.4	2.575	66.6	2.622	23.8	0.937	11.9	0.469
0762	76.2	3.000	98.6	3.882	95.2	3.748	39.7	1.563	11.9	0.469

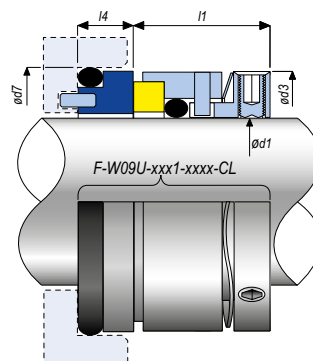


W09U-CL

Stock code: F-W09U-xxxx-xxxx-CL

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or G - Tungsten Carbide	E - Stainless Steel or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0286	28.6	1.126	40.2	1.583	41.2	1.622	20.6	0.811	7.0	0.276
0476	47.6	1.874	60.4	2.378	63.5	2.500	21.4	0.843	9.3	0.366
0539	53.9	2.122	70.5	2.776	73.0	2.874	24.6	0.969	7.2	0.283

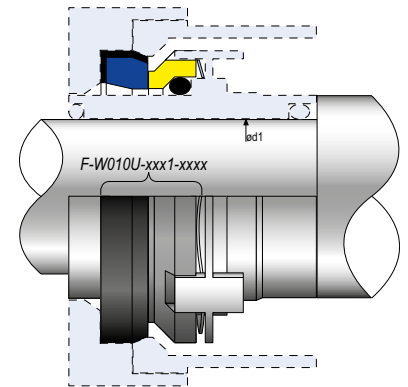


Wave Spring

W010U



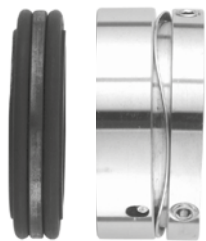
Stock code: F-W010U-xxxx-xxxx



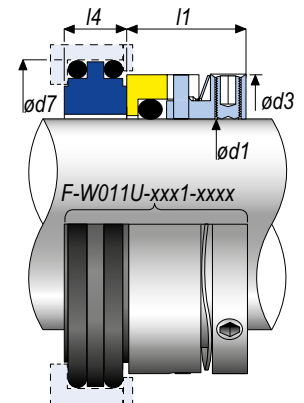
Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	Y - EPR (EPDM)	1

Size	d1	
	Metric	Inches
0286	28.6	1.125
0476	47.6	1.875
0539	53.9	2.122
0750	75.0	2.953

W011U



Stock code: F-W011U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or G - Tungsten Carbide	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

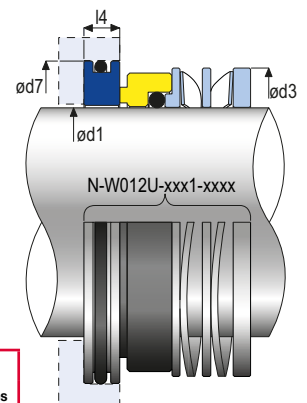
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0280	28.0	1.102	40.0	1.575	46.0	1.811	19.1	0.752	10.1	0.398
0350	35.0	1.378	45.5	1.791	53.0	2.087	19.1	0.752	12.0	0.472
0500	50.0	1.969	61.9	2.437	70.0	2.756	23.0	0.906	12.0	0.472
0650*	65.0	2.559	86.0	3.386	92.2	3.630	-	-	14.0	0.551

* 65mm rotary fits a stepped shaft therefore inner barrel not supplied.

W012U



Stock code: N-W012U-xxxx-xxxx

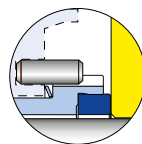


Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	E - Stainless Steel	X - Nitrile (BUNA)	1

Size	d1		d3		d7		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0460	46.0	1.811	62.0	2.441	65.0	2.559	7.2	0.283

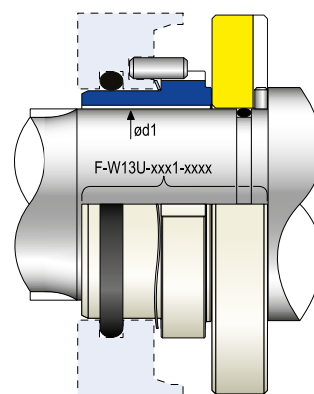


W13U (Single Seals)



Inserted internal stationary
face for Carbon and
Tungsten Carbide

Stock code: F-W13U-xxxx-xxxx



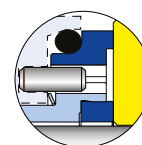
Monolithic Internal stationary
in Sintered SiC and Ceramic

Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0301	30.1	1.185
0381	38.1	1.500
0476	47.6	1.875
0698	69.8	2.750

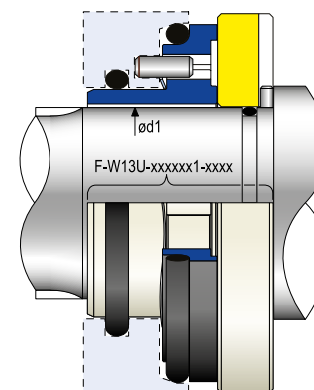


W13U (Double Seals)



Inserted internal stationary
face for Carbon and
Tungsten Carbide

Stock code: F-W13U-xxxxxxx-xxxx
(Size)



Monolithic Internal stationary
in Sintered SiC and Ceramic

Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0301	30.1	1.185
0381	38.1	1.500
0476	47.6	1.875
0698	69.8	2.750

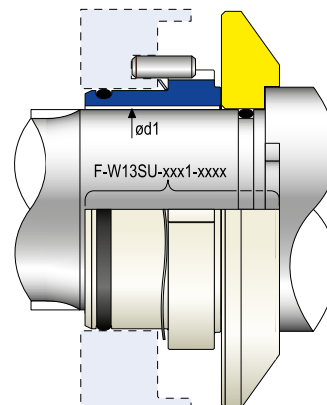


Wave Spring

W13SU (Single Seals)



Stock code: F-W13SU-XXXX-XXXX



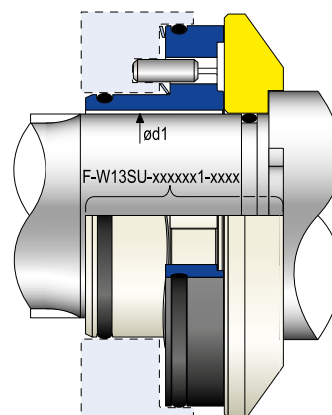
Rotary Face	Stationary Face	Elastomer	Build Code	d1		
				Size	Metric	Inches
B - Alumina Ceramic or J - Sintered SiC or G - Tungsten Carbide	A - Carbon or B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1	0317	31.7	1.250
				0412	41.2	1.625
				0508	50.8	2.000
				0698	69.8	2.750
				0762	76.2	3.000



W13SU (Double Seals)



Stock code: F-W13SU-XXXXXXX-XXXX
(Size)



Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	A - Carbon or B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	B - Alumina Ceramic or G - Tungsten Carbide or J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

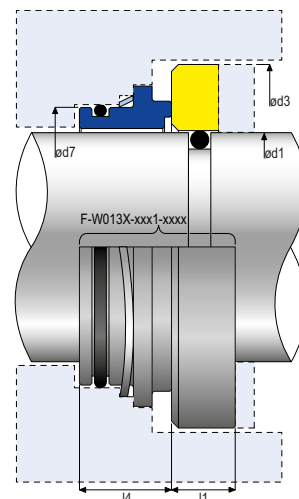
d1		
Size	Metric	Inches
0317	31.7	1.250
0412	41.2	1.625
0508	50.8	2.000
0698	69.8	2.750
0762	76.2	3.000



W013X



Stock code: F-W13XU-xxxx-0330



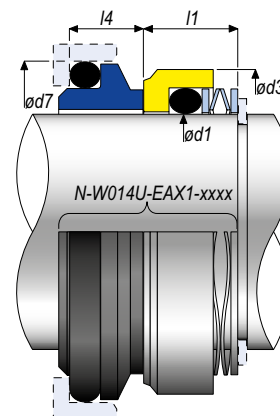
Rotary Face	Stationary Face	Elastomer	Build Code
G - Tungsten Carbide	G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0330	33.0	1.300	52.5	2.067	40.1	1.578	6.8	0.268	13.3	0.523



W014U

Stock code: N-W014U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel	A - Carbon	X - Nitrile (BUNA) or Z - Viton (FPM)	1

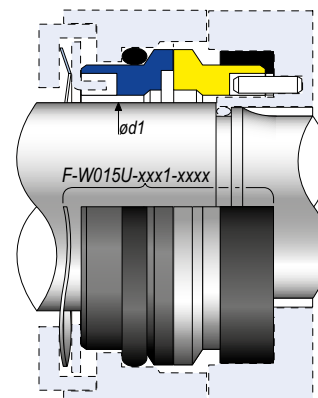
Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0480	48.0	1.890	62.0	2.441	67.0	2.638	15.6	0.614	14.5	0.571
0650	65.0	2.559	79.0	3.110	86.0	3.386	17.8	0.701	15.3	0.602
0800	80.0	3.150	98.0	3.858	104.0	4.094	19.5	0.767	16.7	0.657
0900	90.0	3.543	105.0	4.133	114.0	4.488	19.4	0.763	16.3	0.641
1000	100.0	3.937	116.0	4.566	123.0	4.842	21.0	0.823	17.1	0.673



W015U



Stock code: F-W015U-xxxx-xxxx



Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or J - Sintered SIC	A - Carbon or J - Sintered SIC	Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1	
	Metric	Inches
0254	25.4	1.000
0349	34.9	1.374
0476	47.6	1.875

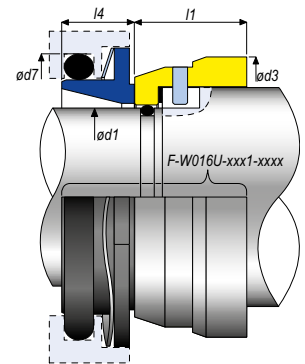


Wave Spring

W016U



Stock code: F-W016U-xxxx-xxxx



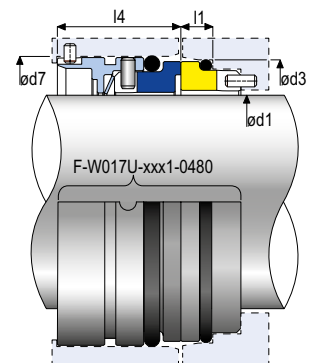
Rotary Face	Stationary Face	Elastomer	Build Code
E - Stainless Steel or J - Sintered SiC	A - Carbon or J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0200	20.0	0.787	32.0	1.260	37.0	1.457	21.9	0.862	12.6	0.496
0300	30.0	1.181	45.0	1.772	49.3	1.939	21.0	0.827	14.5	0.571
0350	35.0	1.378	54.9	2.299	58.4	1.744	22.0	0.866	14.3	0.563
0450	45.0	1.772	64.9	2.555	74.0	2.913	24.5	0.965	17.2	0.677
0550	55.0	2.165	74.9	2.949	84.0	3.307	26.9	1.059	16.9	0.665
0670	67.0	2.638	89.7	3.531	100.0	3.937	37.0	1.457	20.0	0.787

W017U



Stock code: F-W017U-xxxx-xxxx



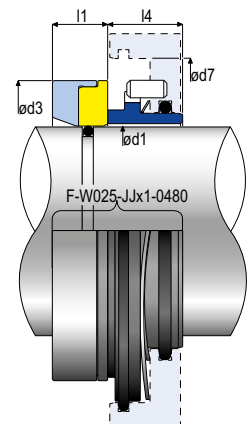
Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0300	30.0	1.181	43.4	1.709	44.2	1.740	6.2	0.244	29.0	1.142
0480	48.0	1.890	66.4	2.614	65.0	2.559	8.1	0.319	27.9	1.098

W025 (Single Seal)



Stock code: F-W025-xxxx-0480



Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

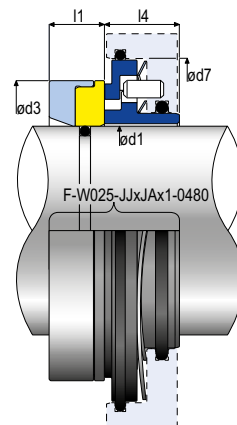
Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0480	48.0	1.890	69.0	2.717	64.0	2.520	12.7	0.500	18.0	0.709

W025 (Double Seal)

Stock code: F-W025-xxxxxx-xxxx
(Size)

Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code
J - Sintered SiC	J - Sintered SiC	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	J - Sintered SiC	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1

	d1		d3		d7		I1		I4	
Size	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0480	48.0	1.890	69.0	2.717	78.0	3.071	12.7	0.500	18.0	0.709

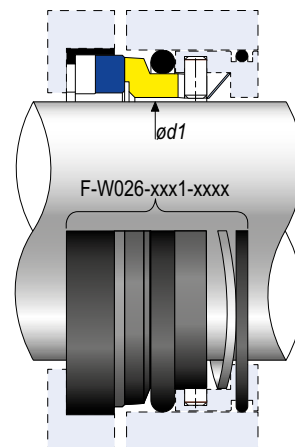


W026

Stock code: F-W026-xxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon or J - Sintered SiC	J - Sintered SiC	I - AES Elast	1

Size	d1	
	Metric	Inches
0580	58.0	2.283
0680	68.0	2.677
0780	78.0	3.071

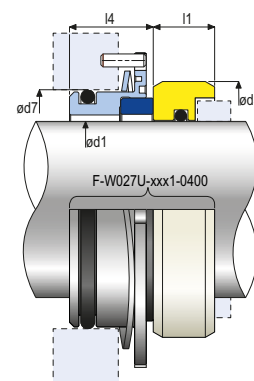


W027U

Stock code: F-W027U-xxxx-xxxx

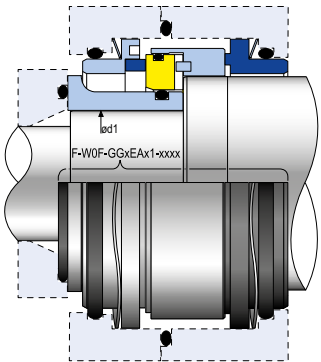
Rotary Face	Stationary Face	Elastomer	Build Code
B - Alumina Ceramic or D - Silicon Carbide (RB)	A - Carbon	Y - EPR (EPDM) or Z - Viton (FPM)	1

Size	d1		d3		d7		I1		I4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0400	40.0	1.575	55.0	2.165	55.0	2.165	13.2	0.520	18.0	0.709



Wave Spring

W0F



Stock code: F-W0F-xxxxxx-xxxx

Rotary Face	Stationary Face	Elastomer	Rotary Face	Stationary Face	Elastomer	Build Code	d1		
G - Tungsten Carbide	G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	E - Stainless Steel	A - Carbon	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1	Size	Metric	Inches
							0250	25.0	0.984
							0300	30.0	1.181
							0400	40.0	1.575
							0520	52.0	2.047

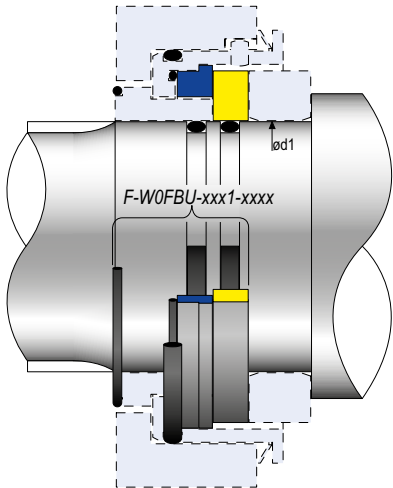


W0FBU



Stock code: F-W0FBU-xxxx-xxxx

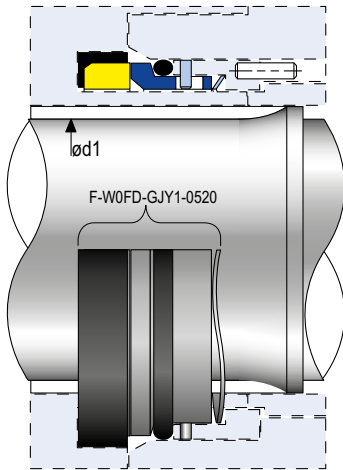
Rotary Face	Stationary Face	Elastomer	Build Code	d1		
A - Carbon or G - Tungsten Carbide	E - Stainless Steel or G - Tungsten Carbide	X - Nitrile (BUNA) or Y - EPR (EPDM) or Z - Viton (FPM)	1	Size	Metric	Inches
				0210	21.0	0.826
				0310	31.0	1.220
				0380	38.0	1.496
				0520	52.0	2.047



W0FD

Stock code: F-W0FD-xxxx-0520

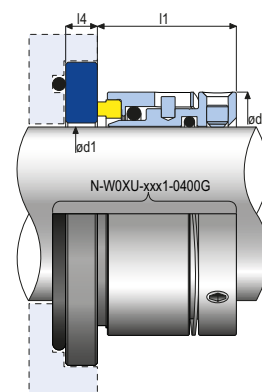
Rotary Face	Stationary Face	Elastomer	Build Code	d1		
G - Tungsten Carbide	J - Sintered SiC	Y - EPR (EPDM)	1	Size	Metric	Inches
				0520	52.0	2.047



W0XU

Stock code: N-W0XU-xxxx-0400G

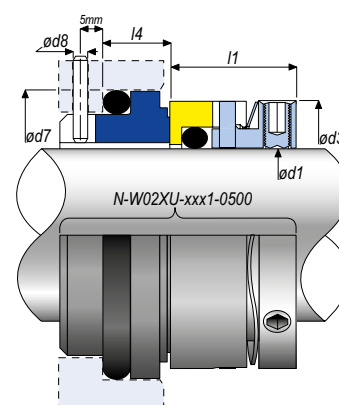
Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
D - Silicon Carbide (RB)	D - Silicon Carbide (RB)	Z - Viton (FPM)	1	0400G	40.0	1.575	56.0	2.205	32.0	1.260	7.3	0.287



W02XU

Stock code: N-W02XU-xxxx-0500

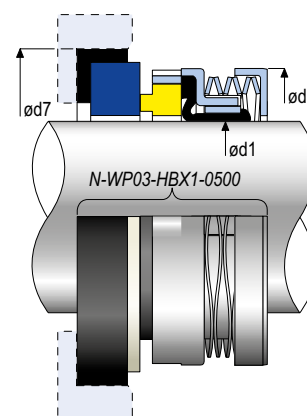
Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7		d8		l1		l4	
					Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
G - Tungsten Carbide	D - Silicon Carbide (RB)	Z - Viton (FPM)	1	0500	50.0	1.969	61.9	2.437	70.0	2.756	5.0	0.197	21.1	0.831	13.0	0.512



WP03

Stock code: N-WP03-xxxx-0500

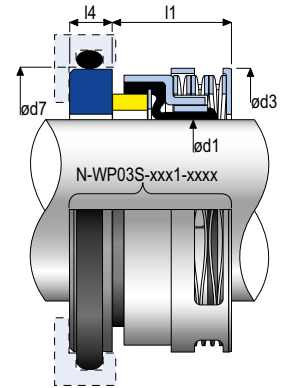
Rotary Face	Stationary Face	Elastomer	Build Code	Size	d1		d3		d7	
					Metric	Inches	Metric	Inches	Metric	Inches
H - Antimony Carbon	B - Alumina Ceramic	X - Nitrile (BUNA)	1	0500	50.0	1.969	66.4	2.614	72.0	2.835



Wave Spring

WP03S

Stock code: N-WP03S-xxxx-xxxx



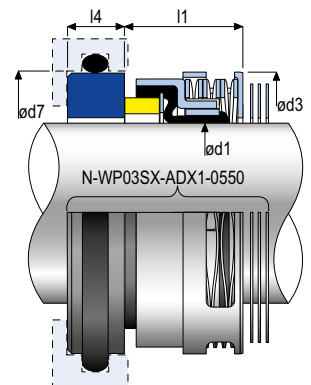
Rotary Face	Stationary Face	Elastomer	Build Code
D - Silicon Carbide (RB) or A - Carbon	D - Silicon Carbide (RB)	X - Nitrile (BUNA)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0320	32.0	1.260	47.6	1.874	46.5	1.831	20.0	0.787	5.4	0.213
0400	40.0	1.575	57.9	2.280	56.0	2.205	20.0	0.787	6.8	0.268
0480	48.0	1.890	62.0	2.441	67.0	2.638	15.6	0.614	14.5	0.571
0550	55.0	2.165	73.4	2.890	72.0	2.835	20.0	0.787	7.9	0.311
0600	60.0	2.362	80.5	3.169	75.0	2.953	21.0	0.827	10.9	0.429
0750	75.0	2.953	97.2	3.827	93.2	3.669	26.8	1.055	9.9	0.390



WP03SX

Stock code: N-WP03SX-xxxx-0550



Rotary Face	Stationary Face	Elastomer	Build Code
A - Carbon	D - Silicon Carbide (RB)	X - Nitrile (BUNA)	1

Size	d1		d3		d7		l1		l4	
	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches	Metric	Inches
0550	55.0	2.165	73.4	2.890	72.0	2.835	20.0	0.787	11.2	0.441



Competitor Cross Over Table

Page	AESSEAL®	AESSEAL® (predecessor)	BURGMANN	CRANE (Flexibox)	FLOWSERVE (Pac-Seal)	LATY	ROPLAN	ROTEN	SEALOL	US SEAL	VULCAN	OTHER MANUFACTURERS
78	ALXU	ALX										Alfa Laval / Tetra Pak
10	B01	B01	BT-AR	PR/DR	118	T750		37B / L5			18	Cyclam
11	B03/B03U	B03/B03U	BT-A2	6A	170	T70		68	7	B	70 / 75	
12	B04/B04U	B04/B04U	BT-PNT	106	160			16	6	A	60 / 65	
13	B05U	B05		2100	140						14DIN	
13	B08	B08		10T / 20								Fluitten ES, Corropac 30
14-15	B09U	B02	MG1		190	T700		L3			19	Hecker HN 410SU
14-15	B09SU	B02S	MG1		190	T700		L3			19	Hecker HN 410SU
14-15	B09SSU	B02SS	MG1		190	T700		L3			19	Hecker HN 410SU
14-15	B09SLU	B02SL	MG1		190	T700		L3			19	Hecker HN 410SU
14-15	B092U	B012	MG12		192	T712		L3K			192	Hecker HN 410KU
14-15	B092U	B052		2100 (LK)	142						142DIN	
14-15	B092U	B07		502							1724	
14-15	B092SU	B012S	MG12-G4		192			L3K				Hecker HN 410KU
14-15	B092SSU	B012SS	MG12-G6		192			L3K				Hecker HN 410KU
14-15	B092SSU	B052S		2100 (LK)	142							
14-15	B092SSU	B07S		502 (B0 SEAT)								
14-15	B092SLU	B052SL		2100 (LK)	142							
14-15	B092SLU	B07SL		502 (BP SEAT)								
14-15	B093U	B013	MG13-G60		193	T713		L3N			193	Hecker HN 410NU
14-15	B093U	B053		2100 (L1N)	143						143DIN	
14-15	B093SU	B013S	MG13-G4		193			L3N				Hecker HN 410NU
14-15	B093SSU	B013SS	MG13-G6		193			L3N				Hecker HN 410NU
14-15	B093SSU	B053S		2100 (L1N)	143						143DIN	
14-15	B093SLU	B053SL		2100 (L1N)	143						143DIN	
16	B09DU	B02D	MG1-G9		ALC		RTH83					Alfa Laval ALC
17	B09KU	B02K	MG1S		KZN							KSB
17	B09WU	B02W										Wilo Bn / DPn / IPn
17-18	B09XU / B09XSU	B02X / B02XS	MG1S									ABS/EMU/Wilo
19	B092XU	B07X										Godwin CD / HL
20	B092GSU	B012G	MG12S									Grundfos TP, NP5, LPD, NP, LP
20	B092GU	B07G										
21	BP02U	BP02	MG1S20	2 (N SEAT)	150						1520	
22	BP04U	BP04		21	151						1511	
22	BP05U	BP05		1 (N SEAT)	152						1522	
23	BP06U	BP06										APV Puma
24-26	C01U / C02U / C03U	C01 / C02 / C03										Flexibox R20
27	C04U	C04										Plenty OR50 Mixer
78	HT0CU	HT0C										Hayward Tyler Side Entry Mixers

Competitor Cross Over Table

Page	AESSEAL®	AESSEAL® (predecessor)	BURGMANN	CRANE (Flexibox)	FLOWSERVE (Pac-Seal)	LATY	ROPLAN	ROTEN	SEALOL	US SEAL	VULCAN	OTHER MANUFACTURERS
28	M01U	M01		109,9,909				90	T		1609	
28	M01SU	M01S		8-1							1609S	
29	M02U	M02		109B, 9B							1609B	
29	M02SU	M02S		8B1							1609BS	
30	M03U	M03	BT-C56.KU	59U							1659	
30	M03SU	M03S	BT-C5.KU	58U							1659S	
31	M04U	M04	BT-C56.KB	59B							1659B	
31	M04SU	M04S	BT-C5.KB	58B							1659BS	
32	M05U	M05		9-T							1645	
32	M05SU	M05S		8-1T							1645S	
33	M06U	M06		9BT							1645B	
33	M06SU	M06S		8BT							1645BS	
34	M01SD	M01SD										Fybroc / Tri-Clover
34	M07U	M07					R52	S			50	Inoxpa Prolac/M25
35	M09	M09										Waukesha Universal
35	M09S	M09S										Waukesha Universal
36	M010	M010	HJ92N				201	EHS				Hecker HN 435 & Ropac Propac 50
37	M010D	M010D	M74-D									
38	M010H	M010H										Hidrostal G, M, N, X
39	M010S1 / 2 / 3	M010S1 / 2 / 3	SHJ97					EHS3				Hilge
40	M010S4	M010S4	SHJ92S9 / SHJ97GS9									
40	M010S5	M010S5										APV W-140/50
41	M010SA	M010SA					201					Grundfos Sarlin
41	M010X	M010X	M477									Haigh Macipump
42	M011X	M011X										Goulds IC & ICB / Vogel LSB & LSN
42	M0FC	M0FC										Fristam
43	M0FCA / B / C / D	M0FCA / B / C / D										Fristam
44	M0HCH	M0HCH										Huhnseal HC
44	M0GCE	M0GCE										Grundfos
45	M0GCH	M0GCH										Grundfos
78	M0GFPU	M0GFPU										Godwin Fire Pump
45	M0JC	M0JC										Jung Pumpen
45	M0SO	M0SO										EcoSine, SPS
46	MP07U	MP07										Alfa Laval
46	MP080	MP080										
47	MW0FA	W0FA										Fristam
47	MW0FC	W0FC										Fristam
52	P01U	P01 / P01T	MG910 / D1-G50	1A (N SEAT)	100	T100		51	43 CE Long		10	
56	P01XU											

Competitor Cross Over Table

50	P02	P02 / P02T	MG920 / D1-G50	2 (N SEAT)	200	T200	RB02	21	43 CE Short	20	Gormann Rupp
56	P02GU	P02G									
53	P02U	P02	MG920 / D1-G50	2 (N SEAT)	200	T200	RB02		43 CE Short	20	
51	P03	P03	MG912 / D1-G60	521	240	T400	RB03	52/L4K	43 Din	24	
54	P03U	P03	MG912 / D1-G60	521	240	T400	RB03	52/L4K	43 Din	24	
51	P04	P04 / P04T		21	110			21A	43 CU Short	C 11	
55	P04U	P04U		2 (US)	52					D A4	
57	P04U-GR	P04-GR									Gormann Rupp
55	P05U	P05 / P05T	MG901 / D1-G55	1 (N SEAT) / 1 (US)	220 / 51			51A	43 CU Long	E 22 / A5	
57	P06U	P06		R0SR	APU	T300	R50	37		26	APV Purna
63	P06XU	P06X									
58-59	P07U	P07					RTH81 / 82 / 84				
60	P08U	P08		R00						95	Alfa Laval
60	P08U + C02U	P08+C02		R10							
60	P08U + C03U	P08+C03		R20					1500		Pillar US-2 & Eagle 1505
60	P08SU	P08S		R30							
60	P08SU + C02U	P08S+C02		R40							
60	P08SU + C03U	P08S+C03		R50							
61	P080U	P080							1500	98	Pillar US-1
61	P09U	P09	MR							94	Tuchenhagen
62	P09SU	P09S	MR								Tuchenhagen
62	P011U	P011									Viking
62	P012X	P012X									EKK Eagle LXN020
63	P0LXB	P0LXB									Lowara
63	P0X	P0X									GIUSTIMIX
64	S01U	S01	G4							8.STD	
65	S01SLU	S01SL	S5 / M32S5								
65	S01XU										
66	S02U	S02	G9		8L					8.DINL	
67	S03U	S03	G6	BS	8S					8.DINS	
68	S04U	S04	G50	N (Din)						24 STAT	
68	S040U	S040	G60	M						19B STAT	
68	S040XU										
69	S05U	S05			4L			D	DIN	24.DINL	
70	S06U	S06		B0	4S					24.DINS	
71-72	S07U / S070U	S07 / S070		W / VM	1H			W	BA / CBA	21 / 31	
72	S070XU										
73	S08U / S080U	S08 / S080		V				V		25	
74	S09U	S09		A / AG						23	
75	S010U	S010		BD / BP					CS		
76	S011U	S011		P / PP / PG					DA		

Competitor Cross Over Table

Page	AESSEAL®	AESSEAL® (predecessor)	BURGMANN	CRANE (Flexibox)	FLOWERVE (Pac-Seal)	LATTY	ROPLAN	ROTEN	SEALOL	US SEAL	VULCAN	OTHER MANUFACTURERS
81	S0ECU	S0E / S0EC										EMU
77	S0HX	S0HX		H								
77	S0JX	S0JX		J								
81-82	S0SU / S0SSU	S0S / S0SS										Grundfos Sarlin
79	S0ZU	S0Z										Alfa Laval Contherm
79	S0ZX	S0ZX					R53					Alfa Laval Contherm
80	SAB	SAB					R53					Sabroe
47	SAIE	SAIE										EMU
48	SAIH	SAIH										Hidrostat G, M, X
48	SSAI	SSAI										Ropac Normopac 33
49	SSAIS06	SSAIS06					201					Grundfos Sarlin
98	T01U	T01	M32 / M377		38	T800		L4B			8	
99	T01AU	T01A	M377 SPECIAL									
99	T01DU	T01D	M32N / M377N		38D						8.DIN	
100	T01DBU	T01DB	H12N									Hecker HN 430N
101	T01SLU	T01SL	M3255									
102-8	T01FU	T01F	M2S11		FRI		R51					Fristam
109	T01LOU	T01LO										Euro-HYGIA
109	T01LFU	T01LF										Maxa, Maxana
110	T01FSLV	T01FSLV										Fristam
110	T01LKU	T01LK										Hilge
111	T01LXU	T01LX										Hilge
111	T01LXSU	T01LXS										Hilge
112	T02U	T02	M3		39						8B	
112	T02LFU	T02LF										Hilge
113	T02LOU	T02LO										Euro-HYGIA
113	T02LXU	T02LX										Hilge
113	T02LXSU	T02LXS										Hilge
114	T03U	T03	BT-RN		42	T900		2			12	
115	T03DU	T03D	BT-RN.NU		42D	T900D		UNITEN 2			12.DIN	
115	T03HU	T03H										Hygia
116	T04	T04	BT-FN		43	T901	R62	3			13	
116	T04D	T04D	BT-FN.NU		43D	T901D	R62D	UNITEN 3			13.DIN	Lowara
117	T04-MONO	T04-MONO										Mono
83-97	T05	T05									6	Flygt
117	T06DU	T06D	BT-FH					UNITEN 5K				Lowara
117	T07U	T07	M2					22				Hecker HN 400A
118	T07DU	T07D	M2N					UNITEN 22				Hecker HN 400A
118	T07XU	T07X										Westfalia

Competitor Cross Over Table

	TORVU	T0R/T0RV				R53	L / P / 3P				APV & Huhnseal CO
119	T0RWU	T0WU			AWS						APV W
119	T0WDU	T0WDU			AWD						APV W
120	T0WDWU	T0WDW									APV DW
120	T0WPU	T0WP			AWP						APV W+
121	T0WPC				AWP						APV W+
121	T0WS	T0WS									APV
122	W01U	W01		80 (DF / FP)	168	T150	800 / 850			1688	Johnson TL
122	W01U-TL	W01-TL	M7KS60								Fristam
123	W01FU										
123	W02U	W02					UNITEN 7K			1688L	
124-5	W03U / W03SU	W03 / W03S		87 (EI / EC)			RTH87 / R90			1688W	Alfa Laval SSP SR
124	W03DU			87 (EI / EC)			RTH87 / R90				Alfa Laval SSP SR
125	W04U	W04					RT73			1688Y	Johnson Classic
126	W06U	W06	HRZ60				RT72				Johnson OL
126	W07DMU	W07DM	M7N / M78N		Europac 600					1677	
127	W07DMBU	W07DMB	H7N / H75N								
128	W07DMBFU										Fristam
128	W07DMSU			FA33							Ropac R33, Normopac FA33
129	W08U	W08									APV ZMS-5/6
129	W09U	W09					RTH88	555			IBEX MOG
129	W09U-CL	W09-CL					852 / 821 / 822				
130	W010U	W010					R900				APV Howard CL
130	W011U	W011									Inoxpa Prolac & SLR
130	W012U	W012									
131-2	W13U / W13SU	W013 / W013S									Waukesha Universal
133	W013X	W013X									Waukesha Universal
133	W014U	W014	MS30 / MS32								ABS
133	W015U	W015									Jabsco
134	W016U	W016									Alfa Laval SRU Hyclean
134	W017U	W017									
134-5	W025	W025									
135	W026	W026									
135	W027U	W027									
136	W0F / W0FBU	W0F / W0FB / W0FBC									Fristam
136	W0FD	W0FD									Fristam
137	W0XU	W0XU									
137	W02XU	W02X									
137	WP03	WP03	MG7 / 50-G23								ABS 11100083
138	WP03S	WP03S	MG7								
138	WP03SX	WP03SX									



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- Wear protective clothing



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