

PRODUCTS CATALOGUE



Flow Engineering and Service Co.,Ltd.

บริษัท โฟลว์ เอ็นจิเนียริ่ง แอนด์ เซอร์วิส จำกัด



O-RINGS

O-RING MATERIAL



O-RING NBR

Operating temperature
-40°C to +100°C



O-RING VITON (FKM)

Operating temperature
-20°C to +200°C



O-RING EPDM

Operating temperature
-50°C to +150°C



O-RING SILICONE

Operating temperature
-60°C to +230°C
(+300°C for High Temp Grade)



NEOPRENE (CR)

Operating temperature
-40°C to +100°C



PTFE

Operating temperature
-200°C to +260°C



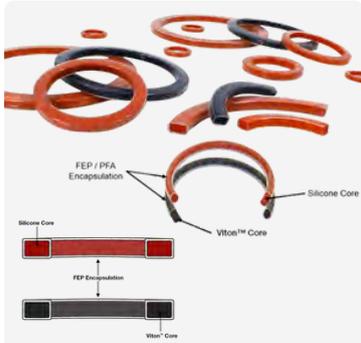
POLYURETHANE (PU)

Operating temperature
-40°C to +90°C



FFKM (Kalrez, Chemraz)

Operating temperature
-20°C to +325°C



FEP ENCAPSULATED

Operating temperature
-60°C to +205°C



METAL

Operating temperature
-270°C to +1000°C
(depending on metal alloy)

BACK-UP RING

Backup Ring คือแหวนรับแรงดัน ช่วยประกอบโอริงไม่ให้ฉีกขาด/เสียรูป เมื่อเจอแรงดันสูง หรือมีช่องว่างระหว่างร่องในชิ้นงานที่กว้าง ช่วยยืดอายุการใช้งานของซีล

		Contoured Back-Up Ring
		Split Back-Up Ring
		Solid Back-Up Ring



MATERIAL

- PTFE
- NBR
- VITON
- POM



X-Ring | Quad Ring

Material
NBR | VITON



O-Ring Cord

Material
NBR | VITON | EPDM | SILICONE



RUBBER SPONGE

Material
SILICONE | EPDM

ROTARY SHAFT SEALS

OIL SEALS

 <p>TC Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	 <p>SC Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	 <p>TB Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	 <p>SB Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>
 <p>TA Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	 <p>SA Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	 <p>PTFE Single Lip (KR328) Operating temperature Material • PTFE : -200°C to +260°C • 304SS: -196°C to +870°C</p>	 <p>PTFE Double Lips (KR329) Operating temperature Material • PTFE : -200°C to +260°C • 304SS: -196°C to +870°C</p>
 <p>PTFE Reverse Lips (KR330) Operating temperature Material • PTFE : -200°C to +260°C • 304SS: -196°C to +870°C</p>	 <p>PTFE Tripple Lip (KR331) Operating temperature Material • PTFE : -200°C to +260°C • 304SS: -196°C to +870°C</p>	 <p>End Cover Operating temperature Material • NBR : -40°C to +120°C • VITON : -20°C to +200°C</p>	

V-RINGS

 <p>VA</p>	 <p>VS</p>	 <p>VL</p>	 <p>VE</p>
 <p>VAX</p>	 <p>VLX</p>	 <p>RM</p>	 <p>RME</p>

MATERIAL

- NBR
- VITON (FKM)



GAMMA SEALS

 <p>RB</p>	 <p>9RB</p>	
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HYDRAULIC SEALING ELEMENTS



KH011
U-Ring Piston Seal (UN)

- Material: PU
- Hardness: 95 Shore A
- Application: Piston/Rod
- Pressure: 250 Bar
- Temperature: -30°C ~ +80°C
- Speed: ≤ 0.5 m/s



KH013
U-Ring Seal + Square Ring

- Material: PU
- Hardness: 96 Shore A
- Application: Piston/Rod
- Pressure: 50 MPa
- Temperature: -30°C ~ +80°C
- Speed: ≤ 0.5 m/s



KH014
U-Ring Seal + O-Ring

- Material: PU/NBR
- Hardness: 95 Shore A
- Application: Piston/Rod
- Pressure: 50 MPa
- Temperature: -30°C ~ +80°C
- Speed: ≤ 0.5 m/s



KH022
Rod Buffer Cap Seal (BSJ)

- Material: Bronze/PTFE/NBR & Viton
- Hardness: 70 Shore A
- Application: Rod
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +80°C
- Speed: ≤ 4 m/s



KH023
Rod Cap Seal (GSI)

- Material: Bronze/PTFE/NBR & Viton
- Hardness: 70 Shore A
- Application: Rod
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +220°C
- Speed: ≤ 4 m/s



KH024
Rod Cap Seal (GSD)

- Material: Bronze/PTFE/NBR & Viton
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +220°C
- Speed: ≤ 4 m/s



KH025
Rod Cap Seal (OEd)

- Material: Bronze/PTFE/NBR & Viton
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +220°C
- Speed: ≤ 4 m/s



KH026
Piston Cap Seal (OED)

- Material: Bronze/PTFE/NBR & Viton
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +220°C
- Speed: ≤ 4 m/s



KH027
Piston Seal (SPGW)

- Material: Bronze/PTFE/NBR/POM
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 60 MPa
- Temperature: -30°C ~ +110°C
- Speed: ≤ 1.5 m/s



KH030
Vee Packing Seal

- Material: NBR/FKM Fabric
- Hardness: 90/70 Shore A
- Application: Piston/Rod
- Pressure: ≤ 70 MPa
- Temperature: -30°C ~ +110°C
- Speed: ≤ 0.5 m/s



KH032
Compact Seal (TSE)

- Material: NBR/FKM + Fabric
- Hardness: 90 Shore A
- Application: Rod
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +110°C
- Speed: ≤ 0.5 m/s



KH035
Compact Seal (KDAS)

- Material: NBR/TPE/POM
- Hardness: 90 Shore A
- Application: Piston
- Pressure: ≤ 40 MPa
- Temperature: -30°C ~ +110°C
- Speed: ≤ 0.5 m/s

HYDRAULIC SEALING ELEMENTS

WIPER SEAL & GUIDE RING



KW101
Single Acting Double Wiper (DHS)

- Material: PU
- Hardness: 95 Shore A
- Application: Hydraulic Wiper
- Temperature: -35°C ~ +100°C
- Speed: ≤ 1 m/s



KW104
Single Acting Wiper (A1)

- Material: PU
- Hardness: 95 Shore A
- Application: Hydraulic Wiper
- Temperature: -35°C ~ +100°C
- Speed: ≤ 2 m/s



KW109
Double-Lip-Energized Wiper (AL5)

- Material: PTFE Bronze / NBR & FKM
- Hardness: 85 Shore A
- Application: Hydraulic Wiper
- Temperature: -35°C ~ +200°C
- Speed: ≤ 2 m/s



KW110
Twin Lip Wiper (DKB)

- Material: Metal / NBR
- Hardness: 85 Shore A
- Application: Hydraulic Wiper
- Pressure: ≤ 32 MPa
- Temperature: -35°C ~ +120°C
- Speed: ≤ 2 m/s



KW113
Rod Wiper Combination (EU)

- Material: PU
- Hardness: 90 Shore A
- Application: Pneumatic Wiper Seal
- Pressure: ≤ 1.6 MPa
- Temperature: -35°C ~ +90°C
- Speed: ≤ 1 m/s



KW122
Guide Strip

- Material: PTFE & Bronze / Phenolic
- Hardness: 90 Shore A
- Application: Guide Pistons And Rods
- Pressure: ≤ 15 N/mm²
- Temperature: -35°C ~ +200°C
- Speed: ≤ 15 m/s



KW123
Guide Ring (WR)

- Material: PTFE/POM/Phenolic/PTFE+BRONZE
- Hardness: 90 Shore A
- Application: Guide Pistons And Rods
- Pressure: ≤ 15 N/mm²
- Temperature: -35°C ~ +200°C
- Speed: ≤ 15 m/s



KW124
Guide Ring (FAI-WR)

- Material: PTFE/POM/Phenolic/PTFE+VRONZE
- Hardness: 90 Shore A
- Application: Guide Piston And Rods
- Pressure: ≤ 15 N/mm²
- Temperature: -35°C ~ +200°C
- Speed: ≤ 15 m/s

PNEUMATIC SEALING ELEMENTS



KP213
Double Acting Piston Seal (PPD)

- Material: NBR/FKM
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 1 MPa
- Temperature: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP219
Complete Piston (MYA)

- Material: NBR/FKM
- Hardness: 72 Shore A
- Application: Solenoid Valves
- Pressure: ≤ 0.8 MPa
- Temperature: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Speed: ≤ 0.4 m/s



KP220
Cushioning Seal (PP)

- Material: TPU/NBR/FKM
- Hardness: 85 Shore A
- Application: Pneumatic
- Pressure: ≤ 1.6 MPa
- Temperature: $-25^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP203
Double Acting Piston Seal (PSD)

- Material: NBR/FKM
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 1 MPa
- Temperature: $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP204
Piston Seal (PGY)

- Material: NBR/FKM
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 1 MPa
- Temperature: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP205
Single Acting Piston Seal (Z8)

- Material: TPU/NBR/FKM
- Hardness: 70 Shore A
- Application: Piston
- Pressure: ≤ 1.5 MPa
- Temperature: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP210
Piston Seal (E4)

- Material: NBR/TPU/FKM
- Hardness: 70 Shore A
- Application: Pneumatic Piston
- Pressure: ≤ 2 MPa
- Temperature: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP216
Double Acting Piston (DK)

- Material: NBR
- Hardness: 72 Shore A
- Application: Pneumatic
- Pressure: ≤ 1.2 MPa
- Temperature: $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KW113
Rod Wiper Combination (EU)

- Material: PU
- Hardness: 90 Shore A
- Application: Pneumatic Wiper Seal
- Pressure: ≤ 1.6 MPa
- Temperature: $-35^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Speed: ≤ 1 m/s



KP227
Cushion Seal (PCS)

- Material: NBR + Metal
- Hardness: 90 Shore A
- Application: Absorb shock at the end of cylinder
- Pressure: ≤ 1 MPa
- Temperature: $-5^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Speed: ≤ 0.5 m/s

MACHINED SEAL



FLOW SEAL Custom-made Seals

- On-Demand Delivery: มั่นใจได้รับสินค้าภายใน 24 ชั่วโมง
- Zero Leakage, Zero Stress: บริการผู้เชี่ยวชาญจาก Flowseal เพื่อหยุดการรั่วไหลและเพิ่มประสิทธิภาพสูงสุดให้ระบบของคุณ
- Unlimited Scale: ผลิตได้ตั้งแต่ขนาดจิ๋ว ไปจนถึง ขนาดใหญ่ OD 850 มม. ตอบโจทย์ทุกกลุ่มอุตสาหกรรม



MATERIAL FOR MACHINED SEAL



HPU

Hardness : 95 Shore A
Temperature range : -20°C to +115°C
Application : all standard hydraulic conditions.



NBR

Hardness : 85 Shore A
Temperature range : -35°C to +120°C
Application : all standard hydraulic conditions up to 250 bar.



VITON (FKM, FPM)

Hardness : 85 Shore A
Temperature range : -20°C to +220°C
Application : all standard hydraulic conditions up to 250 bar.



EPDM

Hardness : 85 Shore A
Temperature range : -45°C to +150°C
Application : hot water, steam and deluted acids.



PTFE VIRGIN

Hardness : 55 Shore D
Temperature range : -200°C to +260°C
Application : For use in food, chemical and medical industry.



PTFE FILLED 25% GLASS

Hardness : 60 Shore D
Temperature range : -200°C to +260°C
Application : for medium mechanical loads and for use in chemical industries.



PTFE 25% CARBON

Hardness : 67 Shore D
Temperature range : -200°C to +260°C
Application : in hydraulics system with water or water/oil emulsions and pneumatic system.



PTFE 40% BRONZE

Hardness : 71 Shore D
Temperature range : -200°C to +260°C
Application : in hydraulics as bearings and seals for high duty and special items in industry.



PEEK

Hardness : 85 - 88 Shore D
Temperature range : -40°C ถึง +250°C
Application : guide rings, back up rings Bearing, bushing, seal, backup ring, Wear parts, Insulator



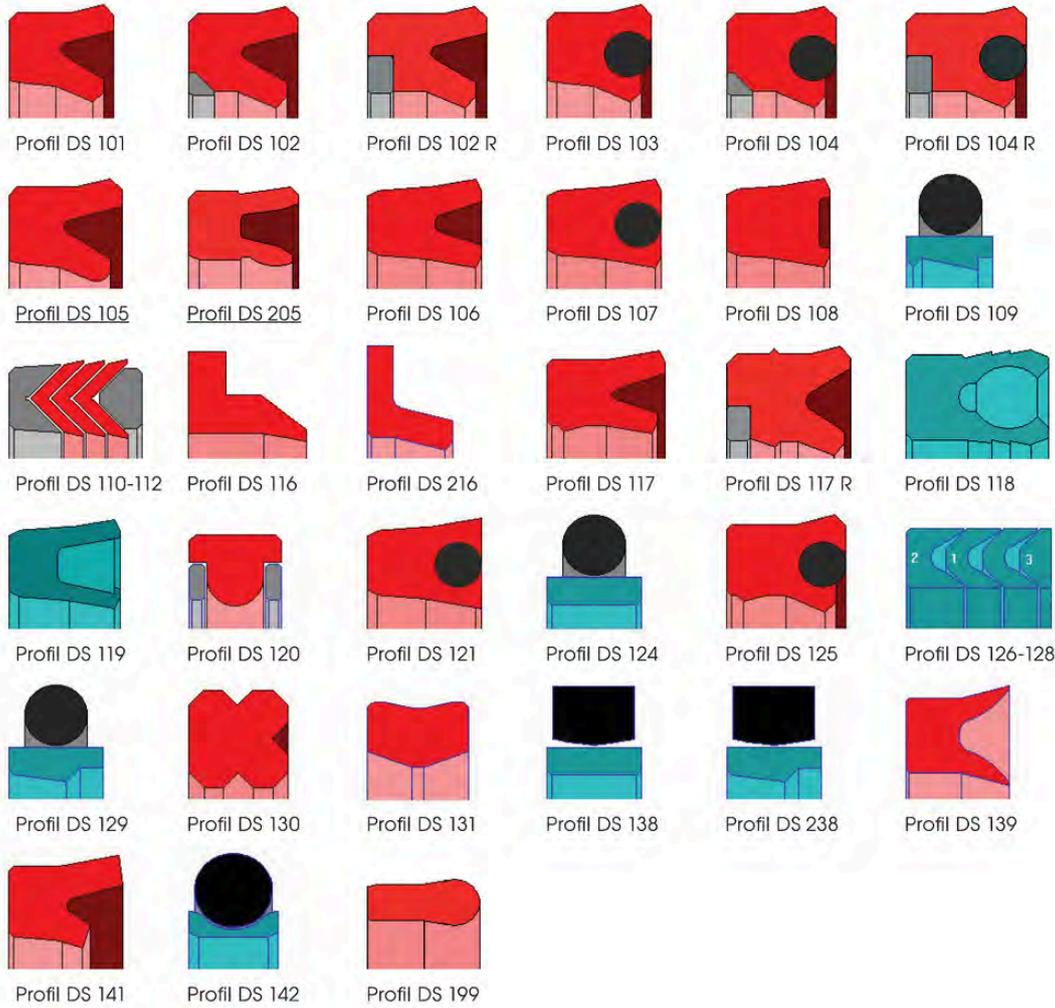
POM

Hardness : 85 Shore D
Temperature range : -45°C to +100°C
Application : guide rings, back up rings

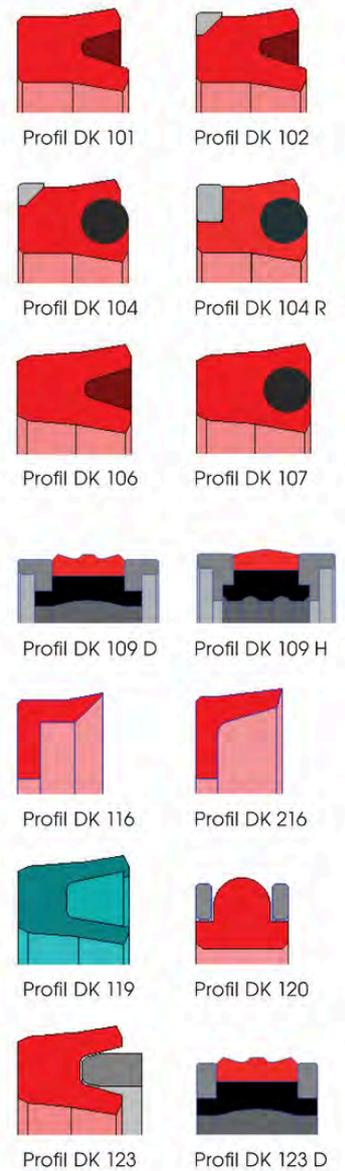


MACHINED SEAL PROFILES

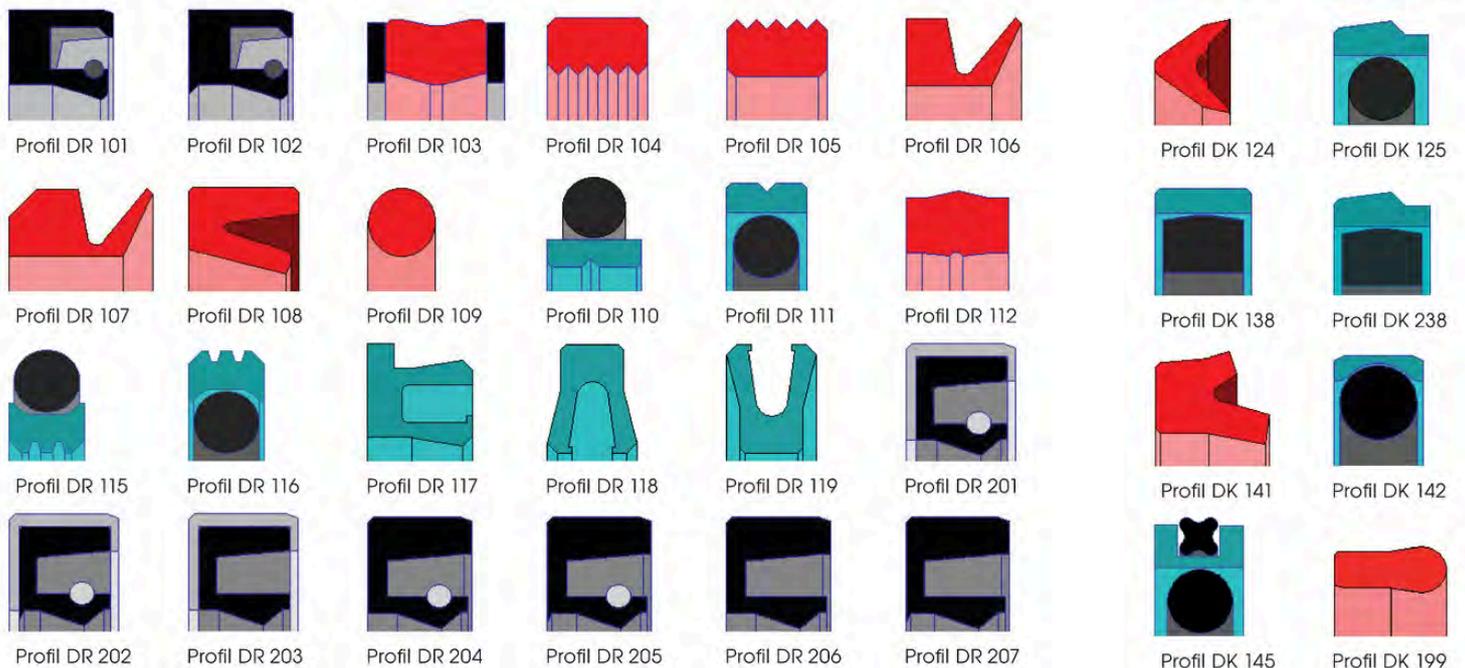
ROD SEALS



PISTON SEALS



ROTARY SEALS



MACHINED SEAL PROFILES

WIPERS



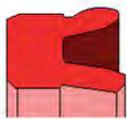
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Profil DK 103



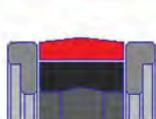
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Profil DK 205



Profil DK 108



Profil DK 109



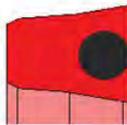
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Profil DK 110-112



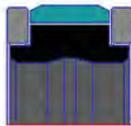
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Profil DK 118



Profil DK 122



Profil DK 222



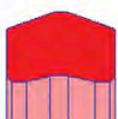
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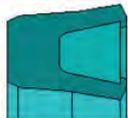
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Profil DK 126



Profil DK 127



Profil DK 139



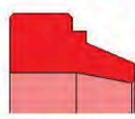
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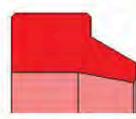
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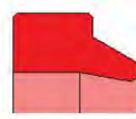
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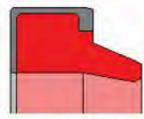
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Profil DA 104



Profil DA 105



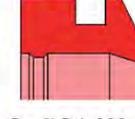
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Profil DA 107



Profil DA 108



Profil DA 109



Profil DA 211



Profil DA 212



Profil DA 113



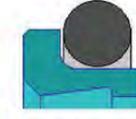
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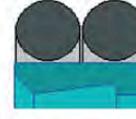
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Profil DA 115



Profil DA 116



Profil DA 117



Profil DA 118



Profil DA 119

GUIDE RINGS



Profil DF 101



Profil DF 102



Profil DF 103



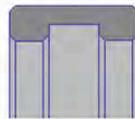
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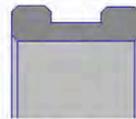
Profil DF 105



Profil DF 106



Profil DF 107



Profil DF 108



Profil DFB 102

BACKRINGS



Profil DST 108



Profil DST 109



Profil DST 110



Profil DST 111



Profil DST 112



Profil DST 113

GASKETS



Profil DFL 101



Profil DFL 102



Profil DFL 103



Profil DFL 104



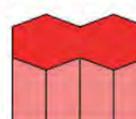
Profil DFL 105



Profil DFL 106



Profil DFL 107



Profil DFL 108



Profil DFL 109



Profil DFL 110



Profil DFL 111



AS568
Standard

5A O-RING KIT SERIES 5A -382PCS (AS568)

Convenient re-sealable plastic case Weight 0.65 kg

Part Numbers (As568)	I/D (mm)	Section (mm)	Quantity In Kit	Part Numbers (As568)	I/D (mm)	Section (mm)	Quantity In Kit
6	2.9	1.78	20	211	20.22	3.53	10
7	3.69	1.78	20	212	21.82	3.53	10
8	4.47	1.78	20	213	23.39	3.53	10
9	5.29	1.78	20	214	25	3.53	10
10	6.07	1.78	20	215	26.57	3.53	10
11	7.65	1.78	20	216	28.17	3.53	10
12	9.25	1.78	20	217	29.57	3.53	10
110	9.19	2.62	13	218	31.34	3.53	10
111	10.77	2.62	13	219	32.92	3.53	10
112	12.37	2.62	13	220	34.52	3.53	10
113	13.95	2.62	13	221	36.1	3.53	10
114	15.54	2.62	13	222	37.7	3.53	10
115	17.12	2.62	13	325	37.47	5.33	7
116	18.72	2.62	13	326	40.65	5.33	7
210	18.64	3.53	10	327	43.82	5.33	7



JIS
Standard

5B O-RING KIT SERIES 5B-382PCS (JIS)

Convenient re-sealable plastic case Weight 0.65 kg

Part Numbers (JIS)	I/D (mm)	O/D (mm)	Section (mm)	Quantity (อัน)	Part Numbers (JIS)	I/D (mm)	O/D (mm)	Section (mm)	Quantity (อัน)
P3	2.8	6.6	1.9	20	G22	22	28	3	10
P4	3.8	7.6	1.9	20	P22.4	22.1	29.1	3.5	10
P5	4.8	8.6	1.9	18	G25	24.4	30.6	3.1	10
P6	5.8	9.6	1.9	18	P25	24.7	31.7	3.5	10
P7	6.8	10.6	1.9	18	P26	25.7	32.7	3.5	10
P8	7.8	11.6	1.9	18	G30	29.4	35.6	3.1	10
P9	8.8	12.6	1.9	18	P30	29.7	36.7	3.5	10
P10A	9.8	14.6	2.4	13	P32	31.7	38.7	3.5	10
P11	10.8	15.6	2.4	13	P34	33.7	40.7	3.5	10
P12	11.8	16.8	2.4	13	G35	34.4	40.6	3.1	10
P14	13.8	18.6	2.4	13	P36	35.7	42.7	3.5	10
P16	15.8	20.6	2.4	13	G40	39.4	45.6	3.1	10
P18	17.8	22.6	2.4	13	P40*	39.7	46.7	3.5	10
P20	19.8	24.6	2.4	13	G45	44.4	50.6	3.1	11
G20	20	26	3	10	P48	47.7	54.7	3.5	10

STANDARD MATERIAL



O-RING NBR
Operating temperature
-40°C to +100°C



O-RING VITON (FKM)
Operating temperature
-20°C to +200°C



NEOPRENE (CR)
Operating temperature
-40°C to +100°C

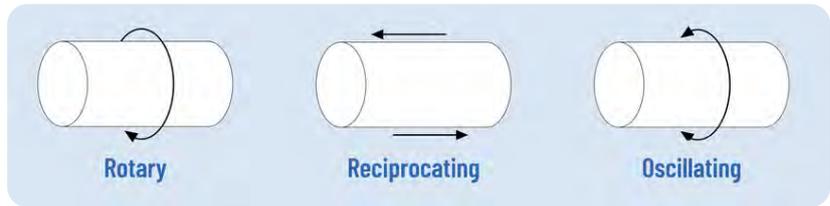


O-RING SILICONE
Operating temperature
-60°C to +230°C
(+300°C for High Temp Grade)

ENERGIZED SPRING SEAL

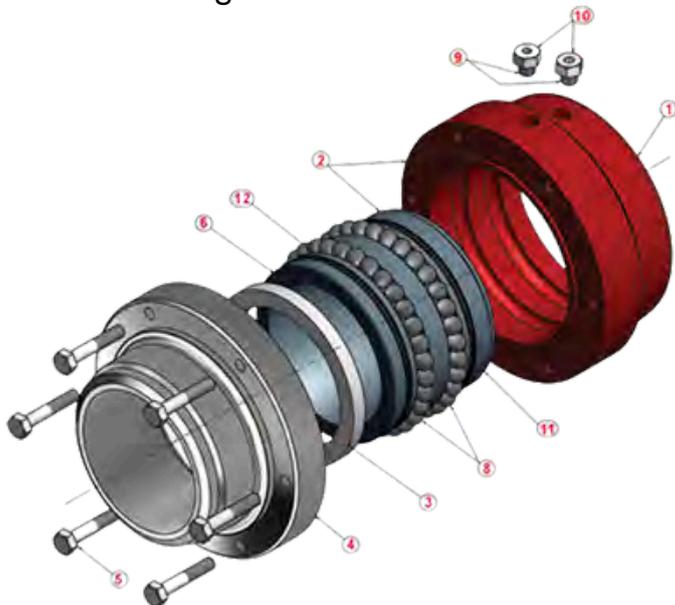


WHERE TO USE SPRING ENERGIZED SEALS?



SWIVEL JOINT

The Swivel Joint allows for rotational movement within the drainage system, accommodating changes in the roof's position and maintaining efficient water flow.



Base Swivel Joint Part List

ITEM	NAME	QUANTITY			MATERIAL
		4"	6"	8"	
		100	150	200	
1	Swivel Joint	1	1	1	CS/SS/AL/Hastelloy
2	Midpart	1	1	1	CS/SS/AL/Hastelloy
3	Product Seal, PTFE	1	1	1	PTFE
3	Product Seal, Viton	1	1	1	VITON
3	Product Seal, EPDM	1	1	1	EPDM
4	Swivel Flange	1	1	1	CS/SS/AL/Hastelloy
5	Bolts	10	12	20	Stainless Steel
6	Nipple*	1	1	1	Stainless Steel
7	Coupler*	1	1	1	CS/SS/AL/Hastelloy
8	Ball	78	76	98	Stainless Steel
9	Ballplug	2	2	2	Stainless Steel
10	Nuts	2	-	-	Stainless Steel
11	Dust Seal, PTFE	1	1	1	PTFE
11	Dust Seal, NBR	1	1	1	NBR
11	Dust Seal, FPM	1	1	1	FRM
12	Chamber Seal, PTFE	1	1	1	PTFE
12	Chamber Seal, FPM	1	1	1	FRM



PRODUCT RANGE:

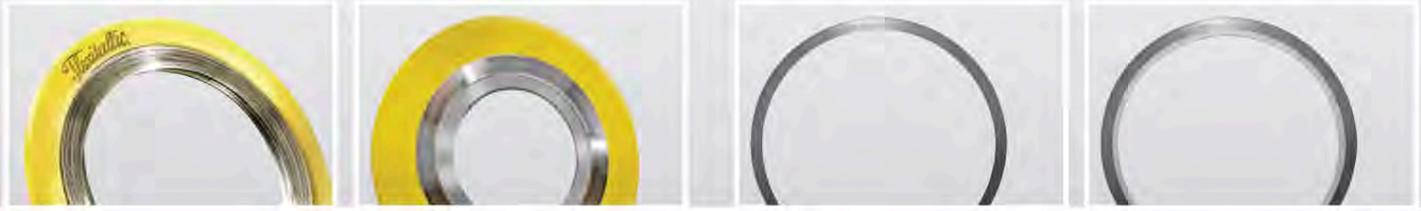
- Spiral Wound Gaskets
- Kammprofile Gaskets
- The Change™ Gasket
- Thermiculite®
- Ring Type Joints
- Compressed Fibre Sheet Gasket
- Sigma® PTFE Gasket

Allied Distributor



SPIRAL WOUND GASKET

GASKET SELECTION



Style CG – Is comprised of a sealing element and outer metal ring. The outer ring assists in locating the gasket on the mating flange faces and prevents over compression of the sealing element ensuring optimum sealing performance. Style CG gaskets are suitable for use on raised and flat faced flanged connections. Style CGI gaskets are suitable for use in mild to moderate service conditions.

Style CGI – In addition to an outer metal ring the CGI style gasket is fitted with an inner metal ring, constraining the sealing element on both internal and external diameters. The inner ring functions as an additional compression stop and prevents inner buckling of the sealing element. It also creates a physical barrier between the sealing element and process stream shielding from heat and media while preventing erosion. Style CGI gaskets are suitable for use on raised and flat faced flanged connections and moderate to severe service conditions.

Style R – Is comprised of a sealing element, additional plies of metal are used at the start and termination of the winding process improving stability and sealing performance. Unlike other styles of spiral wound gasket compression of the sealing element is controlled by the use of the correct flange face configuration, style R gaskets are suitable for use on tongue and groove, male and female and flat to groove flanged connections.

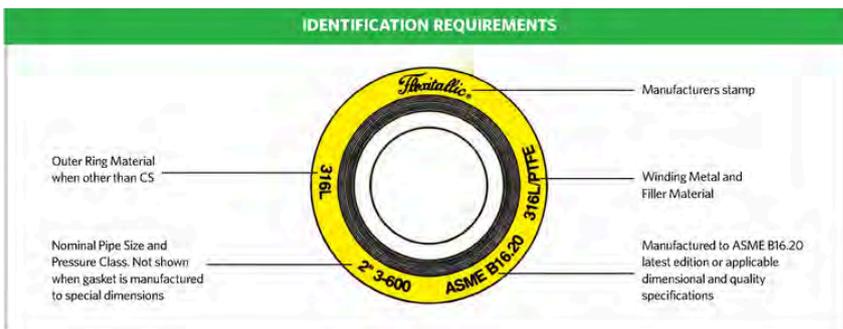
Style RIR – Is comprised of a sealing element and inner metal ring. The inner ring functions as both a compression stop and creates a physical barrier between the sealing element and media stream. The inner ring is also designed to reduce turbulent flow, minimising flange erosion and prevents the build up of debris in the annular space between the pipe bore and internal diameter of the gasket. Style RIR gaskets are suitable for use on male and female (spigot and recess) flanged connections.

METAL WINDING STRIP AS STANDARD		FILLER MATERIAL	GUIDE RING MATERIAL AS STANDARD	
Stainless Steel	304	Flexicarb® flexible graphite	Carbon Steel	
	316L	Thermiculite® 835		
OTHERS		Flexite Super®	OTHERS	
Stainless Steel	304L	PTFE	Stainless Steel	304
	310	Ceramic		304L
	316Ti	Non-sintered PTFE		316L
	317L			316Ti
	321	Thermiculite®, FLEXITALLIC'S proprietary high-temperature, sealing material is comprised of chemically exfoliated and thermally exfoliated vermiculite.		310
	347			321
	430	This revolutionary patented product simulates the structure of exfoliated graphite but with one notable exception... gaskets made with Thermiculite® maintain their integrity, even at extreme temperatures.		347
	17-7PH			410
Alloy 20			Inconel®	600
Monel®				625
Titanium*			Monel®	
Nickel® 200			Titanium*	
Inconel®	600		Nickel®	
	625		Incoloy®	800
	X-750			825
Hastelloy®	B2		Alloy 20	
	C276		Hastelloy®	B2
Incoloy®	800	Thermiculite® is thermally stable, ensuring against thermal oxidation, at temperatures in excess of 1000°C (Thermiculite® 835).		C276
	825			
Duplex				
Zirconium*				
Tantalum*				

SELECTION GUIDE					
Flange Face					
	Raised Face	Flat Face	Male and Female	Tongue and Groove	Flat Face to Recess
Recommended Gasket Style For general duties					
	Style CG	Style CG	Style R	Style R	Style R
Recommended Gasket Style For high pressure/temperature duty, also for gaskets with PTFE filler, corrosive or fluctuating pressure or temperature service conditions.					
	Style CGI	Style CGI	Style RIR	Style RIR	Style RIR

NOTES: Where style R gaskets are fitted it is essential that the flange is correctly dimensioned to provide a compression stop, as over compression can result in failure.

NOTES
 Figures stated are for information only. Please refer to the current version of the original standards for dimensional information.
 Selected materials should be compatible with operating temperature and chemicals. If in doubt, contact Flexitallic Technical Department.
 We recommend a max continuous operating temperature of 260°C, above this decomposition starts to occur slowly, increasing rapidly above 400°C (750°C)

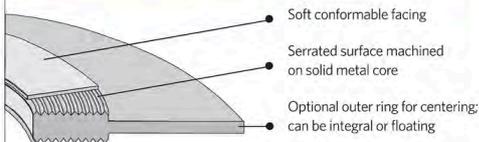




FLEXPRO™ KAMMPROFILES

FLEXPRO™ – THE VERSATILE GASKET WITH THREE KEY FEATURES: COMPRESSIBILITY, LOW STRESS, CONVENIENCE.

COMPOSITE CONSTRUCTION WITH SERRATED CORE



STYLE PN



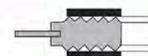
Style PN FLEXPRO™ gaskets are selected for use in confined locations, including male and female, tongue and groove, spigotted and/or recessed flange arrangements.

STYLE ZG



Variation of the PN FLEXPRO™, utilises an integral outer locating ring for correct gasket positioning within the flange assembly bolt circle. Style ZG FLEXPRO™ gaskets are recommended for use in standard raised face and flat face flange assemblies.

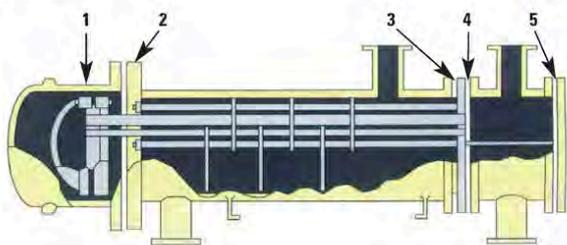
STYLE ZA



The Style ZA FLEXPRO™ is a slight variation of the Style ZG. The integral outer locating ring is replaced by a loose fitting independent ring which is preferred in applications where differential radial thermal expansion may be encountered.

SHELL SIDE

TUBE SIDE



GASKET LOCATIONS

1. Floating Head
2. Shell Cover
3. Shell to Tubesheet
4. Tubesheet to Channel Box
5. Channel Box Cover

IDEAL FOR SHELL AND TUBE STYLE HEAT EXCHANGER FLANGES.

Although suitable for use on all standard pipeline flanges in a wide range of difficult applications, the FLEXPRO™ gasket is proving to be reliable, as a cost effective alternative to metal jacketed gaskets, that are commonly used in heat exchanger applications.

Use of the Flexitallic FLEXPRO™ gasket will ensure a reliable seal, from initial hydrotest through difficult operating conditions.

FLEXPRO™ gaskets are suitable for use on TEMA flanges, and when required, pass partition ribs can be supplied in any configuration.

The FLEXPRO™ gasket provides a high integrity, low seating stress seal, and is ideal for heat exchanger applications with limited bolt load or less rigid flanges.

CORE MATERIAL

MAX. TEMPERATURE

Stainless Steel	535 - 870°C
Carbon Steel	535°C
Aluminium	425°C
Monel®	815°C
Nickel	650°C
Inconel®	1100°C
Titanium Gr.2	1095°C
Duplex 2205* (UNS S31803)	300°C

*Duplex is subject to embrittlement between 350°C and 500°C

STANDARD CORE MATERIALS

Standard core thickness is 3.0mm; other thicknesses and materials are readily available to suit specific applications.

STANDARD FACING MATERIALS

Standard facing thickness is 0.5mm or 0.75mm (material dependent); other thicknesses and materials are readily available to suit specific applications.

FLANGE SURFACE FINISH REQUIREMENTS

The ideal flange surface finish for use with Flexitallic FLEXPRO™ gaskets is 3.2 – 6.4 – metre Ra (125 – 250 – inch Ra).

FACING MATERIAL

MAX. TEMPERATURE

SEATING STRESS AT ROOM TEMP

MIN. PSI (MPa)

MAX. PSI (MPa)

Thermiculite®	1000°C	2500 (17)	72500 (500)*
Flexicarb® Flexible Graphite	450°C	2500 (17)	72500 (500)*
Sigma®	260°C	2500 (17)	72500 (500)*
Virgin PTFE	260°C	2500 (17)	72500 (500)*
Soft Metals	Per material	Per material	Per material

*While high stresses have been utilised, Flexitallic Engineering should be contacted for operating stresses above 40,000 psi.

Allied Distributor



Why Thermiculite® Critical Service Series?

- Total freedom from oxidation
- Chemical compatibility exceeds graphite
- Can be used in temperatures up to 1000°C (1832°F)
- Fire safe
- Proven track record
- Wide range of metals available



Thermiculite® 815 Tanged Sheet

High temperature sheet reinforced with a 0.1mm (0.004") 316 stainless steel tanged core. Available in thicknesses of 0.8mm (1/32"), 1.5mm (1/16") 2.0mm (5/64") and 3.0mm (1/8"), in metre (standard) and 1.5m x 1.5m (60" x 60") sheet. Cut gaskets also available in all shapes and sizes.



Thermiculite® 835 Spiral Wound Filler

High temperature filler material for spiral wound gaskets. Wide range of metals available.



Thermiculite® 845 Flexpro™ (kammprofile) Facing

High temperature Filler and Facing material for kammprofile gaskets. Wide range of metallic core materials available.



Thermiculite® 855 Change™

High temperature Filler and Facing material for use with the Change™ Gasket.



Thermiculite® 894 Packing Material

Critical service packing made from expanded vermiculite foil and Inconel wire.

Why Thermiculite® Performance Series?

- Total freedom from oxidation
- Broad chemical compatibility range
- Fire safe
- Genuine opportunity for gasket standardisation and inventory consolidation
- Wide service capability



Thermiculite® 715 Coreless Sheet

High performance coreless sheet material. Replacement of compressed fibre sheet line, SF2401, SF2420, SF3300, SF5000 and tanged graphite sheet. Available in thicknesses of 0.8mm (1/32"), 1.5mm (1/16") and 3.0mm (1/8") in cut gaskets and 1.5m x 1.5m (60" x 60") sheet.

RECOMMENDED SERVICE CONDITIONS FOR THERMICULITE® CRITICAL SERVICE & PERFORMANCE

	CRITICAL SERVICE SERIES				PERFORMANCE SERIES
	815	835	845	855	715
Product Type	Tanged Sheet	Spiral Wound Filler	Flexpro (kammprofile) Facing	Change Gasket Filler	Coreless Sheet
Temperature Range	Up to 1000°C (1832°F)	Up to 1000°C (1832°F)	Up to 1000°C (1832°F)	Up to 1000°C (1832°F)	Up to 454°C (850°F)
Pressure Range	Class 150 to 300	Class 150 to 2500	Class 150 to 2500	Class 150 to 2500	Class 150 to 300
Typical Use	High temperatures, nominal pipe sizes, non-standard gaskets, problem applications, critical seals				Available in cut gasket and 1.5m x 1.5m sheet



THE CHANGE™ GASKET

CHANGE GASKET BENEFITS



Features/Benefits	Spiral Wound Gasket	Flexpro (kammprofile)	CHANGE Gasket
Blowout Resistant	●	●	●
Excellent Tightness	●	●	●
Excellent Recovery	Yes, improved with HT Inc X750	●	●
Cyclic Conditions	Yes, HT Inc X-750 Recommended	●	●
Good Handleability	●	●	●
Low Seating Stress	Not in all sizes/Pressure Ratings	●	●
Use on Nubbin, when centred	●	●	●
Flexibility Sealing Pipe Flanges	●	Potential Issue	●
Potential to: Reduce Complexity by Eliminating Spring Washers	Only with HT Inc X750	●	●
Potential to: Reduce Man Hours Required for Re-Torque	Only with HT Inc X750	●	●
Potential to: Reduce Man Hours by Eliminating Hot Torquing	Only with HT Inc X750	●	●

COMPRESSION VS. RECOVERY AT 124MPa (18,000 psi) GASKET STRESS

Gasket Style	% compression	% recovery
Change	30	34
CGI X-750HT	24	34
CGI, 316SS	30	26
DJ	28	7
Kammprofile	25	6

change™

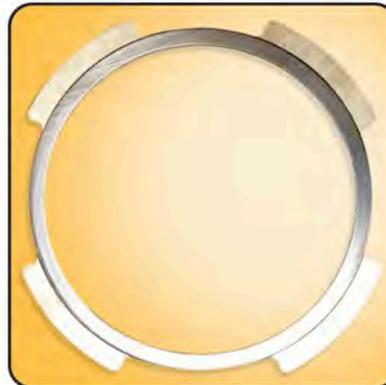
The high level of stored energy gives the Change gasket extremely high recovery. In a compression test against other gaskets, the Change gasket recovered almost five-times better than Kammprofile and DJ gaskets.

CHANGE SUMMARY

- Construction is more robust than a spiral and kammprofile
- Compression is more consistent than a spiral and kammprofile
- Creep is VERY low
- Recovery is VERY high
- Seals extremely well, especially thermal cycles
- Crush resistant; no inner ring/compression stop required
- Fits most – if not all – flange arrangements
- Available in most industrial metals
- Fire safe to API 6FB
- TA LUFT approved (in accordance with VDI Guideline 2440)



Available Materials	Winding Materials	304, 316L, 347SS & Inconel 625 available in 3.20mm (0.125") and 4.50mm (0.177") Model and Inconel X750 are available in 3.20mm (0.125") only
	Filler & Facing Materials	Flexicarb SEL (other grades of flexible graphite available on request) PTFE and Thermiculite® (TH855) also available
Locating	Carbon Steel outer guide ring - other metals available	
Dimensions	Minimum Diameter	25.4mm (1") ID
	Maximum Diameter	2540mm (100") ID - for larger diameters contact Applications Engineering
Thickness across wire	3.20 up to 600mm Dia (0.125" up to 24")	
	4.50 above 600mm Dia (0.177" above 24")	
Maximum Recommended Radial Width	25.4mm (1") for larger widths contact Applications Engineering	
Minimum Radial Width	9.5mm (3/8") for narrower widths contact Applications Engineering	
Shapes	Round up to 2540mm (100") or small oval up to 600mm (24")	



A GASKET THAT'S
BETTER THAN ANY GASKET ON THE MARKET.
EVEN OURS!

change™

RING TYPE JOINTS

Flexitallic



Low stress stamping for identification and traceability

The metallic Ring Type Joint is used in the petroleum industry, where high pressure applications necessitate the need for a high integrity seal.

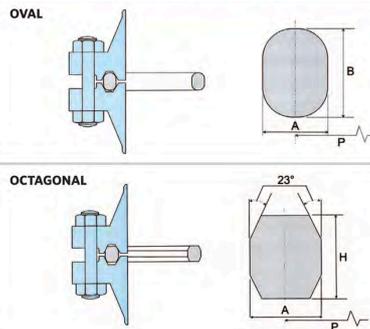


MATERIAL	UNS NUMBER	MAXIMUM HARDNESS		IDENTIFICATION note (b)	SPECIFYING BODY note (c)
		BRINELL (BHN)	ROCKWELL (RB)		
Soft Iron	-	90	56	D	A, B
Low Carbon Steel - note (a)	-	120	68	S	A, B
4-6% Chrome 1/2% Moly (F5)	K42544	130	75	F5	B
St. St. AISI 304	S30400	160	83	S304	A, B
St. St. AISI 316	S31600	160	83	S316	A, B
St. St. AISI 347	S34700	160	83	S347	A, B
St. St. AISI 410	S41000	170	86	S410	B
Alloy 600	N06600	200	92	UNS Number	C
Alloy 625	N06625	200	92	UNS Number	C
Alloy 800	N08800	200	92	UNS Number	C
Alloy 825	N08825	200	92	UNS Number	C
Alloy C276	N10276	200	92	UNS Number	C
SMO 254	S31254	180	89	UNS Number	C
Duplex	S31803	250	-	UNS Number	C
Super Duplex	S32760	200	92	UNS Number	C
Monel [®] 400 (M400)	N04400	200	92	UNS Number	C
Titanium Gr.2	R50400	215	94	UNS Number	C

STYLE R



DIMENSIONAL DATA - STYLE -R



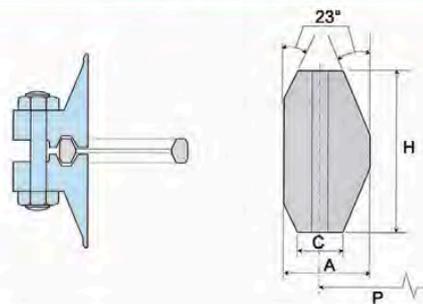
STYLE R TOLERANCES

Dimension	Tolerances (mm)	
	API 6A & 17D	ASME B16.20
A Width of ring	40.20	40.20
B, H Height of ring	±0.5	+1.3/-0.5
C Width of flat	±0.20	±0.20
P Average pitch diameter	±0.18	±0.18
23° Angle of sealing face	±0° 30'	±0° 30'

STYLE RX



DIMENSIONAL DATA - STYLE RX



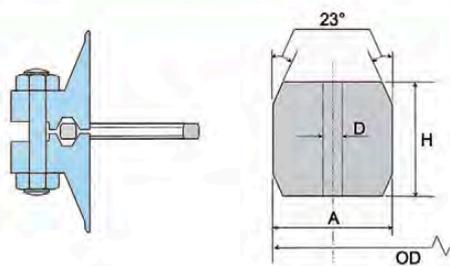
STYLE RX TOLERANCES

Dimension	Tolerances (mm)	
	API 6A	ASME B16.20
A Width of ring	+0.20/-0.0	+0.20/-0.00
C Width of flat	+0.15/-0.0	+0.15/-0.00
D Height of outside bevel	+0.0/-0.8	+0.0/-0.76
H Height of ring	+0.20/-0.0	+0.20/-0.00
OD Outside diameter	+0.5/-0.0	+0.51/-0.00
P Average pitch diameter	±0.13	not given
23° Angle of sealing face	±0° 30'	±0° 30'

STYLE BX



DIMENSIONAL DATA - STYLE BX



STYLE BX TOLERANCES

Dimension	Tolerances (mm)	
	API 6A & 17D	ASME B16.20
A Width of ring	+0.20/-0.0	+0.20/-0.00
C Width of flat	+0.15/-0.0	+0.15/-0.00
D Hole size	+0.5	+0.5
H Height of ring	+0.20/-0.0	+0.20/-0.00
OD Outside diameter	+0.0/-0.15	+0.00/-0.15
ODT Outside diameter of flat	±0.05	±0.05
23° Angle of sealing face	±0° 15'	±0° 15'

COMPRESSED FIBRE SHEET GASKETS

Flexitallic

SF2400



Flexitallic SF2400 is a general purpose aramid-fiber based sheet sealing material bound with high quality nitrile rubber.

Service:
Suitable for use in applications involving hot and cold water, steam, oils, fuels, gases and a wide range of general chemicals.

Maximum recommended temperature:
350 °C (660 °F)
Maximum recommended pressure:
10 MPa (100 bar; 1450 psi)

Availability:
Sheet size:
1.5m x 1.5m
2.0m x 1.5m

Thickness range:
0.5mm to 3.0mm

SF2401



Flexitallic SF2401 is an aramid fiber based sheet sealing material bound with a high-quality nitrile rubber.

Service:
Suitable for use in applications involving hot and cold water, steam, oils, fuels, gases and a wide range of general chemicals.

Maximum recommended temperature:
350 °C (660 °F)
Maximum recommended pressure:
10 MPa (100 bar; 1450 psi)

Availability:
Sheet size:
1.5m x 1.5m

Thickness range:
0.5mm to 5.0mm

SF2800



Flexitallic SF2800 is an aramid fiber based sheet sealing material bound with a high-quality nitrile rubber.

Service:
Suitable for use across a broad spectrum of industrial applications involving steam (including super-heated steam), water, oils, solvents, fuels, gases, general chemicals, dilute acids and alkalis.

Maximum recommended temperature:
400 °C (750 °F)
Maximum recommended pressure:
12 MPa (120 bar; 1740 psi)

Availability:
Sheet size:
1.5m x 1.5m

Thickness range:
0.5mm to 5.0mm

SF3300



Flexitallic SF3300 is a superior performance aramid/inorganic fiber sheet sealing material bound with a high-quality nitrile rubber.

Service:
Developed for general industrial applications where an high performance asbestos free sheet is desirable. Flexitallic SF 3300 is suitable for use across a wide range of media including low and intermediate pressure steam, oils, fuels, solvents and mild chemicals.

Maximum recommended temperature:
440 °C (825 °F)
Maximum recommended pressure:
14 MPa (140 bar; 2030 psi)

Availability:
Sheet size:
1.5m x 1.5m
2.0m x 1.5m
Thickness range:
0.4mm to 3.0mm

SIGMA[®] PTFE GASKETS

FOR APPLICATIONS WHERE CHEMICAL RESISTANCE IS PARAMOUNT, SIGMA[®] IS THE ONLY OPTION.

APPROVAL: FDA

MATERIAL COMPLIANCE AND APPROVALS: BAM, DVGW, EN1935 10/2011, FDA, TA LUFT, USP CLASS 6, WRAS

SIGMA[®] 500 SHEET MATERIAL (PTFE)



Sigma 500 is biaxially orientated PTFE containing hollow glass microspheres.

Temperature Range
-200°C to +260°C

Pressure :
51 Bars / 739.69 PSI
Colour: Blue

Enhanced compressibility for low bolt loads.
Improved flexibility over conventional calendared and graphite sheets. Moderate concentrations of acids & caustics, chlorine and hydrogen peroxide
Can be used for all concentrations of sulfuric acid

SIGMA[®] 511 SHEET MATERIAL (PTFE)



Sigma[®] 511 is a high performance biaxially orientated sheet sealing material containing PTFE with silica filler.

Temperature Range
-200°C to +260°C

Pressure :
51 Bars / 739.69 PSI
Colour: Pink

Standard compressibility
Strong acids (except hydrofluoric) to general chemicals
Can be used for all concentrations of sulfuric acid
Not suitable for molten alkali metals, fluorine gas or hydrogen fluoride

SIGMA[®] 533 SHEET MATERIAL (PTFE)



Sigma[®] 533 is a biaxially orientated PTFE containing barium sulfate.

Temperature Range
-200°C to +260°C

Pressure :
51 Bars / 739.69 PSI
Colour: Off white (pigment free)

Standard compressibility
Ideal for sealing food, pharmaceutical and other non-contamination applications
Strong alkaline solutions to other general chemicals
Aqueous hydrofluoric acid below 49%
Not suitable for sealing molten alkali metals or fluorine gas

JOINT SEALANT



PRODUCT INFORMATION

DESCRIPTION:

FlowSeal Joint Sealant is a gasket material made from pure, expanded, virgin PTFE. a quality and environmental management system that is certified according to DIN EN ISO 9001 and DIN EN ISO 14001.

APPLICATION

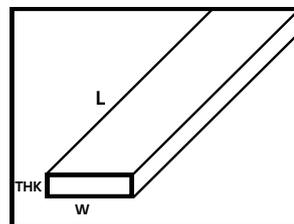
Because of the excellent thermal and chemical resistance of **FlowSeal Joint Sealant**, it can be used in a wide variety of static applications in nearly all kinds of the industry. The exceptional malleability of expanded PTFE can compensate for out-of-parallel and/or damaged sealing surfaces and allows use with stress sensitive connections and applications where only a limited flange load is available. Typical applications are the sealing of flanges, pump housings, compressors, hand- and manholes, air ducts, compensators, heat exchangers and many more.

TECHNICAL DATA

- PTFE Temperature range: $-268\text{ }^{\circ}\text{C}$ to $+260\text{ }^{\circ}\text{C}$ (short time $+315\text{ }^{\circ}\text{C}$)
- Chemical resistance: resistant against all chemicals from pH 0-14 except molten alkali metals and elemental fluorine at high temperature and pressure
- Density: $0,65\text{ g/cm}^3$, $\pm 0,1\text{ g/cm}^3$ (for rectangular crosssections only)
- Aging resistance: **FlowSeal Joint Sealant** does not age (please note: adhesive tape has limited shelf life!) and is UV-resistant
- **FlowSeal Joint Sealant** is physiologically harmless. It has no smell or taste. It is neither contaminating nor toxic. It complies with the FDA 21 CFR 177.1550
- Color: white

DIMENSIONS

- W1/2"(14MM)XTHK5MMXL5MTR
- W1/4"(7MM)XTHK2.5MMXL15MTR
- W12MMXTHK5MMXL20MTR
- W3/8"(10MM)XTHK3MMXL10MTR
- W6MMXTHK3MMXL15MTR
- W12MMXT6MMXL5M



ADVANTAGES

- Quick and simple installation: adhesive strip makes installation easier
- Reduced down time: immediately available, no cutting or punching of gasket necessary
- Reduced stock: a few spools of different sizes cover most applications within a plant
- No risk: the versatility of **FlowSeal Joint Sealant** eliminates the risk of using wrong material for a certain application – this prevents avoidable breakdowns
- No waste: **FlowSeal Joint Sealant** is a gasket from a spool, no material gets wasted

TYPICAL APPLICATION RANGE:

- Temperature range: $-60\text{ }^{\circ}\text{C}$ up to $+230\text{ }^{\circ}\text{C}$
- Operating pressure: from vacuum to 40 bar

EXPANDED PTFE SHEETS



STANDARD SIZE

Thickness 1.00 – 10.00 mm
Sheet 1500x1500 mm

RUBBER SHEET

RUBBER SHEET

MATERIAL



NBR

Operating temperature
-40°C to +100°C



VITON (FKM)

Operating temperature
-20°C to +200°C



EPDM

Operating temperature
-50°C to +150°C



SILICONE (VMQ)

Operating temperature
-60°C to +230°C
FDA Approved



NEOPRENE (CR)

Operating temperature
-40°C to +120°C



Natural Rubber (NR)

Operating temperature
-40°C to +90°C

STANDARD SIZE

Width 1000 ,1200, 1500 mm.

Thickness 0.5, 1, 1.5, 2, 2.5, 3, 4,
5, 6, 8, 10, 12, 15, 25 mm.

FEP SHEET

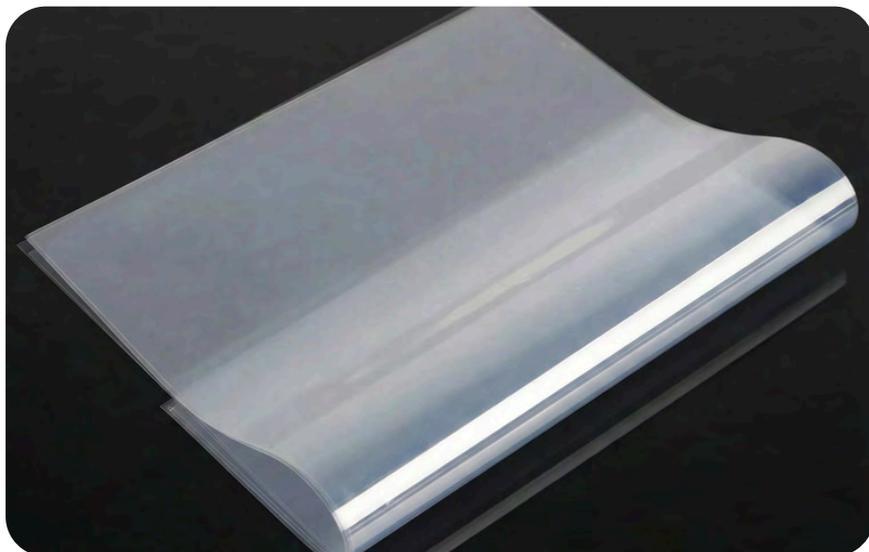
FEP (FLUORINATED ETHYLENE PROPYLENE) SHEET

FEP FILM IS A TRANSPARENT FLUOROPLASTIC WITH A UNIQUE COMBINATION OF PROPERTIES:

- RESISTANT TO HIGH TEMPERATURES (204 ° C)
- CHEMICALLY RESISTANT
- ULTIMATE NON-STICK SURFACE
- UV STABLE
- NOT FLAMMABLE
- HIGH ELECTRICAL INSULATION
- VERY TRANSPARENT

STANDARD THICKNESS

FEP 25 MICRON THICK X 1220 MM MAXIMUM WIDTH
FEP 50 MICRON THICK X 1220 MM MAXIMUM WIDTH
FEP 100 MICRON THICK X 1220 MM MAXIMUM WIDTH
FEP 127 MICRON THICK X 1220 MM MAXIMUM WIDTH
FEP 250 MICRON THICK X 915 MM MAXIMUM WIDTH
FEP 500 MICRON THICK X 915 MM MAXIMUM WIDTH
FEP 1000 MICRO THICK X 915 MM MAXIMUM WIDTH



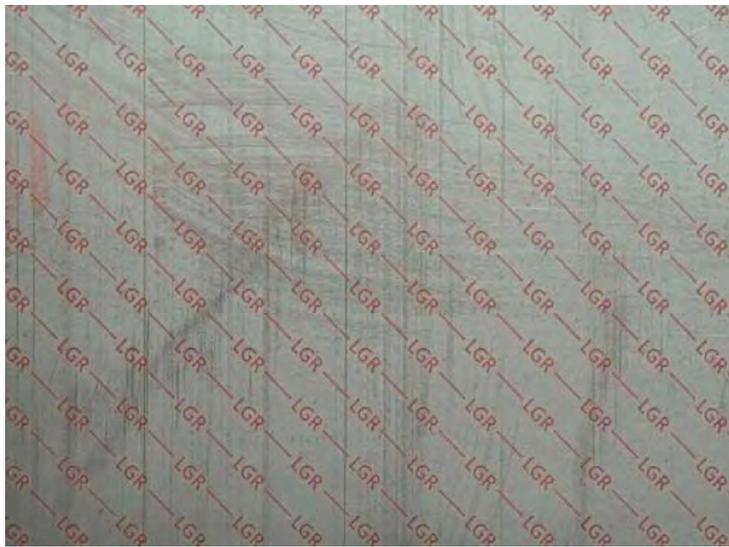


LG : PURE GRAPHITE

PRODUCT INFORMATION

กราไฟต์บริสุทธิ์แบบไม่เสริมไส้

- คุณสมบัติ: นุ่มและยืดหยุ่นสูงมาก สามารถปรับตัวเข้ากับหน้าแปลนที่ไม่เรียบได้ดีเยี่ยม และทนสารเคมีกัดกร่อนสูง
- อุณหภูมิ/แรงดัน: ทนอุณหภูมิ -250°C ถึง 500°C และรองรับแรงดันภายในได้สูงสุด 40 BAR
- การใช้งาน: เหมาะกับหน้าแปลนขนาดใหญ่ (>1000 มม.), หน้าแปลนแก้ว และงานซ่อมแซมหน้าแปลนที่ไม่ขนานกัน
- ความหนา : 0.5 mm , 0.8 mm , 1 mm , 2 mm , 1.5 mm , 3 mm , 5 mm , 6 mm

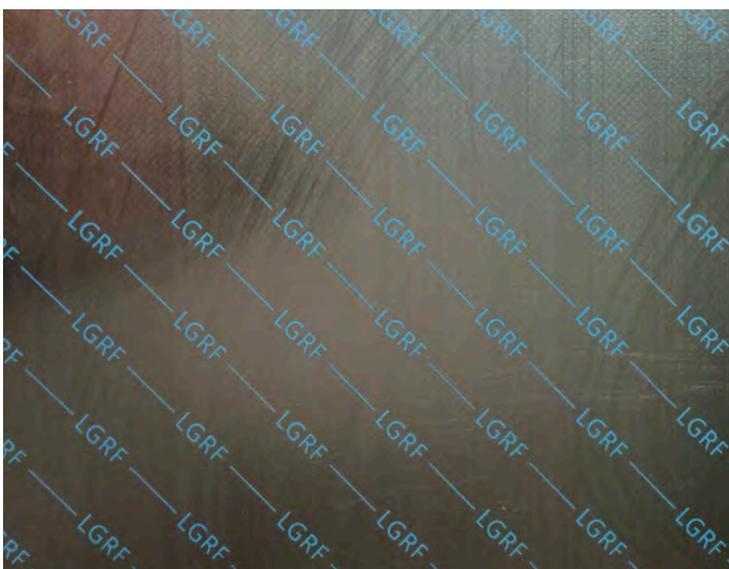


LGR : FLAT SS316 INSERT

PRODUCT INFORMATION

แผ่นกราไฟต์ยืดหยุ่นบริสุทธิ์ เสริมไส้สแตนเลส 316

- คุณสมบัติ: นุ่ม ยืดหยุ่นสูง ซิลิโคนแม่ใช้แรงกดน้อย ไม่เปราะแตกตามอายุการใช้งาน และไร้สารแร่ใยหิน
- อุณหภูมิและแรงดัน: ใช้งานทั่วไป 250°C (สูงสุด 500°C ในไอน้ำ) รองรับแรงดันได้สูงสุด 25 bar
- การใช้งาน: เหมาะสำหรับปั๊ม วาล์ว ขั้วต่อในอุตสาหกรรมก๊าซ, Offshore และท่อส่งก๊าซเสียที่ความร้อนสูง
- ความหนา : 1.5 mm , 2 mm , 3 mm



LGRF : PERFORATED SS316

PRODUCT INFORMATION

แผ่นปะเก็นกราไฟต์ LGRF (เสริมไส้สแตนเลสแบบเจาะรู)

- คุณสมบัติ: ทนต่อการเป่าทะลุ (Blow-out resistance) และแรงเค้นเชิงกลสูง ผิวหน้ากันรอยขีดข่วนได้ดีด้วยการเคลือบเรซิน
- อุณหภูมิและแรงดัน: ใช้งานต่อเนื่องที่ 250°C (สูงสุด 500°C) และทนแรงดันภายในได้สูงถึง 100 bar
- การใช้งาน: เหมาะสำหรับงานหนักในอุตสาหกรรมเคมีและปิโตรเคมี หน้าแปลน Raised-face และท่อส่งความร้อนสูง
- ความหนา : 1.5 mm , 2 mm , 3 mm

STANDARD SIZE

Width x Length 1500x1500 mm..

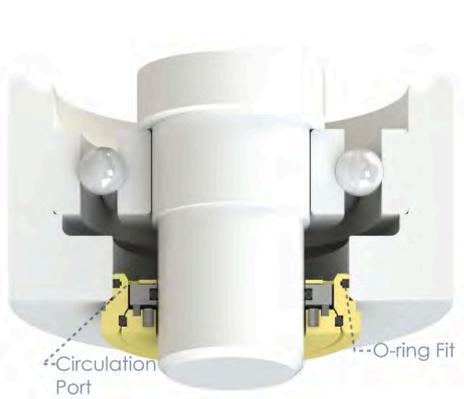
CUSTOM RUBBER PART

บริษัทรับผลิตชิ้นงานยางตามรูปแบบ ตัวอย่าง หรือ Drawing สำหรับงานอุตสาหกรรม โดยเน้นคุณภาพของชิ้นงานและวัตถุดิบประเภทยาง เพื่อตอบสนองความต้องการของลูกค้า และเป็นทางเลือกในการลดต้นทุนแทนการนำเข้าสินค้าจากต่างประเทศ

ตัวอย่างผลิตภัณฑ์ที่รับผลิต:

- Seals (ซีล)
- Rubber Gaskets (ปะเก็นยาง)
- Oil Seal (ซีลน้ำมัน)
- O-Ring (โอริง)
- Wiper Seal (ซีลกันฝุ่น)
- Bush (บุชยาง)
- ยางกันกระแทกส่วนต่าง ๆ
- ยางขอบกันกระแทก
- ยางไหลเป็นเส้น (Cord Rubber)
- Cord Sponge (ยางฟองน้ำเส้น)
- ชิ้นส่วนยางสำหรับงานอุตสาหกรรมอื่น ๆ



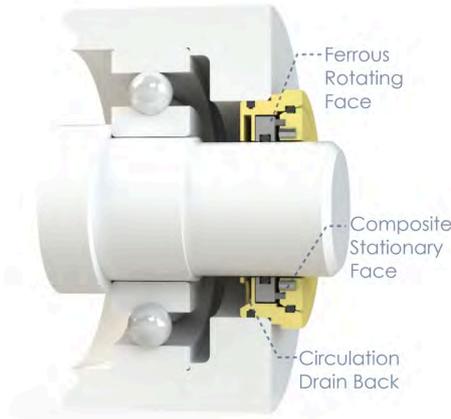


Magnum-P V6S

Lubrication: Bath, Flooded

Equipment: Pumps, Gearboxes

Orientation: Horizontal, Vertical Down

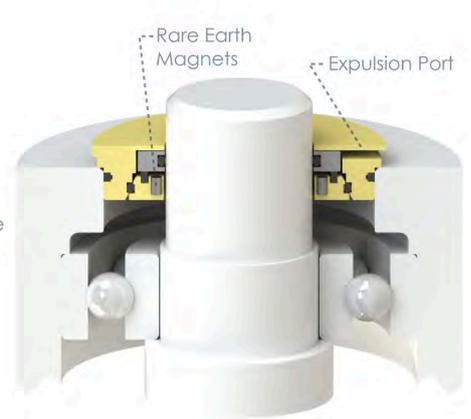


Magnum-P V7

Lubrication: Splash, Oil Mist, Circulated

Equipment: Pumps, Steam turbines

Orientation: Horizontal



Magnum-D V8

Lubrication: Splash, Grease

Equipment: Pumps, Motors

Orientation: Horizontal, Vertical Up

Technical Specifications

Standard Materials: Bronze, Stainless Steel (17-4PH, 304SS)

Temperatures: 400°F/205°C max, -15°F/-26°C min

Pressure: 0-5 PSI

Shaft Size: 3/4in (20mm) - 24in (610mm)

Shaft Speed: 15,000 ft/min

Axial Movement: +/- 1.0 in or greater

Radial Movement: .020 in

Configurations: Bolted, Non-flanged, Male/Female fit

Isomag magnetic bearing isolators use superior face seal technology to protect the bearings on thousands of centrifugal machinery applications around the world from types including but not limited to: **pumps, gearboxes, electric motors, steam turbines, and blowers**. Hundreds of standard sizes are stocked and ship within 24 hours and given the appropriate information (shown here) Isomag will design custom seals to fit your application's needs.

Are you ready to bring your bearing reliability to the next level?

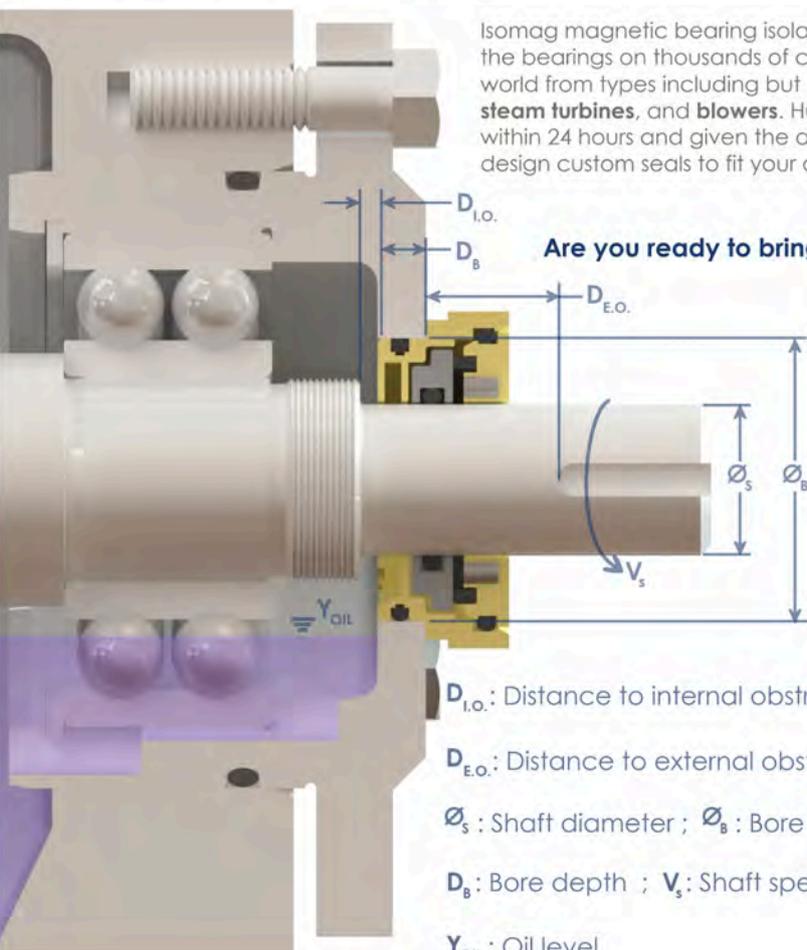
Reduce frequency of oil changes

Increase bearing life over 75000 hrs

Eliminate wear to host equipment

Prevent lubricant leakage

Prevent contamination ingress



$D_{I.O.}$: Distance to internal obstruction

$D_{E.O.}$: Distance to external obstruction

ϕ_s : Shaft diameter ; ϕ_b : Bore diameter

D_b : Bore depth ; V_s : Shaft speed

Y_{OIL} : Oil level



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