TO NAVAGATE THIS CATALOG, PLACE YOUR MOUSE OVER THE PAGE NUMBER THAT YOU ARE INTERESTED IN AND CLICK. YOU MAY ALSO USE THE "NAVAGATION PANE" ICON LOCATED ON THE TOOLBAR OF ACROBAT READER TO DISPLAY AN INDEX OF THUMBNAIL IMAGES DEPICTING THE PAGES IN THIS CATALOG. THE THUMBNAIL IMAGES CAN BE DOUBLE-CLICKED TO TAKE YOU TO THE PAGE OF CHOICE.

FLUIDTEG

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The employees of Fluidtec Engineered Products take pride in the mechanical seals and service we offer. We are backed by over 100 years of experience serving the industrial marketplace with premium, innovative sealing products. Our goal is to meet today's and tomorrow's demanding industrial requirements with the highest quality products, design engineering, application support and customer service.

The products offered in this catalog result from an innovative approach to problem solving using all the material resources available to us. Our standard line of mechanical seals is augmented by specific individual solutions to some of today's most critical sealing applications. It is because of this that we openly invite our customers to challenge us with a wide range of applications. It is by taking this approach that we can offer tomorrow's solutions to today's challenges.



GMP-I



Balanced single cartridge seal

FLUIDTEC'S GMP-I provides the user with many features found on more expensive seals. Incorporating a cost effective cartridge design, this versatile seal is available in a range of materials, making it ideal for a wide range of applications.

PERFORMANCE

Shaft Speed: Pressure: Vacuum: Temperature: 5000 FPM (25.5 MPS) up to 300 psi (20 bar) seal chamber pressure 28" Hg max. (700mm Hg) 400" F (204°C) max with Fluoroelastomer or Aflas*; 500° F (260°C) max. with Kalrez®

MATERIALS

Metallurgy: Rotary faces: Stationary faces:

Springs: O-Rings

316SS & Alloy 20 silicon carbide (SA) chemical grade carbon; tungsten carbide Hastelloy C Fluoroelastomer standard: Aflas* or Kalrez® offered as alternative

FEATURES

BENEFITS

Pre-assembled cartridge	Easy to install.
Balanced internal design	Runs cooler and lasts longer.
Fits standard ANSI pumps	No modifications.
• Rebuild kit available	In-field repair.
 Attached setting clips 	No lost parts.
. Minimal distance to first obstruction	Compatible with wide range Of bearing protectors.
Stationary springs	Better face/seat alignment.

*Trademark of Asahi Glass Co. ®Kalrez is a registered trademark of DuPont





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GMP-II



Double cartridge seal

The FLUIDTEC GMP-II double balanced seal incorporates a compact design with proven sealing technology. The **result** is a high quality, cost effective seal designed for use on a wide variety of rotary equipment applications.

PERFORMANCE

Shaft Speed: Pressure: Vacuum: Temperature: 5000 FPM (25.5 MPS) up to 300 psi (20 bar) seal chamber pressure 28" Hg max. (700mm Hg) 400°F (204°C) max with Fluoroelastomer or Aflas; 500°F (260°C) max. with Kalrez®

MATERIALS

Metallurgy: Rotary faces: Stationary faces:

springs:

O-Rings

316SS &Alloy 20 silicon carbide (SA) Inboard - chemical grade carbon; tungsten carbide; Outboard - chemical grade carbon Hastelloy C Fluoroelastomer standard: Aflas or Kalrez® offered as alternative

FEATURES

- Double cartridge design
- Balanced configuration
- . Cost effective rebuild kits
- Fits standard ANSI pumps
- Stationary compression units
- Minimal distance to first obstruction

BENEFITS

Easy installation. Runs cooler and lasts longer Easy in-field repair. No modification required. Improved face alignment and extended seal life Fits wide range of pumps.







STYLE 19/20



Compact seal for vertical pumps/mixers/agitators

The Style 19 mechanical seal is a preset double cartridge seal that does not require a stuffing box. Its compact design makes it readily adaptable to a wide variety of demanding applications.	PERFORMANCE Speed: Pressure:	4000 FPM (20 MPS) Style 19: 300 psig (double) Style 20: 400 psig (single)
The Style 20 mechanical seal offers the same features in a single seal	Temperature:	-40°F (-40°C) to +350°F (+175°C)
design.	MATERIALS	
Special gland design is available upon request.	Metal parts: Set screws: Springs: O-Rings:	316SS Hastelloy C Hastelloy C fluoroelastomer standard
	Rotary face:	silicon carbide (SA) or tungsten carbide
	Stationary face:	chemical grade carbon or tungsten carbide

FEATURES

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Wide rotary face design	Can withstand .125" T.I.R.
External seal	No stuffing box requited
©O∎©∭♦ ©⊠¥©● ●\\∎∿¢≈	Fits a wide variety of equipment
Stationary design	Minimizes vibration and harmonic distortion
Cartridge seal	Easy installation
Single/double design	Services a wide variety of applications
Repair kit available	Field repairable

BENEFITS



double seal

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single seal



61/62/63/64 SERIES

Fully Convertible Cartridge Seals

Single ... Double ... Tandem ... Metal Bellows ... Multiple Springs Appropriate solutions in one package!



BENEFITS **FEATURES** Versatile/reduced inventory. Same gland, sleeve and One cartridge seal allows you to choose a metal seat wed in each option bellows or multiple spring, single or double Modular compression units Simple conversion/in-plant repair Eliminates harmonic vibration, improved face alignment, Stationary design extended seal life Labyrinth restriction hushing (61/63)Directs steam purge, non-sparking Pumping ring (optional) Provides positive double seal cooling through forced circulation Attached setting clips Readily available during adjustments

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61/62/63/64 SERIES

61/63 Single Seals

Style 61 single metal bellows *Style* 63 single multiple spring

PERFORMANCE

Shaft speed:

Pressure:

Vacuum:

Temperature:

5000 FPM (25.5 MPS) up to 300 psig (20 bar) stuffing box pressure 28" Hg max. (700 mm Hg) 400°F (205°C) max. with Viton O-Ring; 300°F (150°C) max. with EPR O-Ring

62/64 Double Seals

Style 62 double metal bellows Style 64 double multiple spring

PERFORMANCE Shaft Speed: 50

Shaft Speed:5000 FPM (25.5 MPS)Pressure:up to 300 psig (20 bar) stuffing box
pressure; up to 150 psig (10 bar) barrier
fluid capacityVacuum:28" Hg max. (700 mm Hg)Temperature:400° F (205°C) max. with Viton
O-Ring; 300° F (150°C) max. with
EPR O-Ring

MATERIALS

Metal parts:	316SS
	bronze steam purge bushing $(61/63)$
	316SS pumping ring (62/64) optional
Bellows:	AM 350 or Hastelloy C (61/62)
Spring assembly:	Hastelloy C springs with 316SS carrier (63/64)
O-Rings:	fluoroelastomer standard
Rotary face:	silicon carbide (SA)
stationary face:	chemical grade carbon or tungsten carbide



STYLE 61 single metal bellows seal



STYLE 63 single multiple spring seal



STYLE 62 double metal bellows seal



STYLE 64 double multiple spring seal

DEF STYLE 3-D Mixer Seal

Style 3-D Mixer/Agitator Seal

Engineered to function under extreme mechanical conditions far beyond those of conventional seals

The floating design of the flexible housing in the 3-D seal compensates for radial and axial movement of all kinds. The relationship between the sealing element and the shaft sleeve remains consistent under all the conditions indicated below.







STYLE 3-D Mixer Seal





VACUUM & TANDEM





TYPICAL SEAL

L ARRANGEMENTS

3-D Mixer Seal

Each 3-D seal is custom designed to suit the equipment and the application .

MATERIAL SPECIFICATIONS

The 3-D utilizes a proprietary FLUIDTEC black GYLON[®] sealing element. This unique formulation enables the 3-D to be used as a dry running or lubricated seal. Black GYLON has the chemical inertness of PTFE. Seal elements can be arranged to meet specific operational needs.

OPERATING PARAMETERS

Temperature:	480°F (250°C)
Speed:	2500 fpm (12.7 mps)
Pressure:	28" Hg to 150 psig* (700 mm
	Hg to 10 bar)
Sleeve finish:	4 to 6 Mu. In.
Sleeve hardness:	50 to 70 Rockwell C
Sleeve coating:	(specified based on application)
Sleeve and seal	housing material:
	316SS standard
Flexible housing	material:
	PTFE, 316SS, Hastelloy C 276
Movement capal	bility:
	1" Total Indicated Runout
	(TIR)
	1" Total Axial Movement
	(TAM)
	(specific movements calculated
	pet application)

*Above 150 psig, consult FLUIDTEC Engineering

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STVIF 35/35FS

Heavy duty single cartridge seal

The heavy duty single spring design of the Style 35 seal allows it to operate in applications that tend to dog multiple spring seals. These include slurries of all kinds, industrial waste water and municipal treatment plants.

Style 35FS (Fluid Saver) - this unique seal utilizes a P/S-I lip seal as an excluder. The P/S-I fits into the bore of the stuffing box and rides on a replacement stub sleeve. The result is a seal combination that operates in slurries with a minimum of flush water.

PERFORMANCE

speed: Pressure: Temperature: 1500 FPM (7.6 MPS) 150 psig (10 bar) 400°F (205°C)

MATERIALS

Metal parts:	316SS	
set screws:	Hastelloy C	
spring:	316SS	
O-Rings:	fluoroelastomer standard	
Rotary face:	chemical grade carbon or tungsten carbide	
stationary face:	silicon carbide (SA)	

FEATURES

- Preset cartridge seal
- . Static shaft O-Ring
- Heavy duty single spring
- Designed to fit ANSI pumps
- Cost-effective repair kit

BENEFITS

Easy installation No shaft/sleeve fretting Superior dogging resistance No pump/sleeve modification Simple in-field repair





STYLE 35

STYLE 35FS





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High speed, high pressure single cartridge seal

The Style 18 mechanical seal is designed for high speed, high pressure applications, specifically condensate and boiler feed pumps. The Style 18 also can be engineered to meet API 610 specifications.

PERFORMANCE

speed: **Pressure: Temperature:** 6500 FPM (33 MPS) 1200 psig (83 bar) 400°F (205°C)

MATERIALS

Metal parts: **316SS** set screws: Hastelloy C Hastelloy C Springs: **O-Rings**: fluoroelastomer standard Rotary face: silicon carbide (SA) metal filled carbon Stationary face:

FEATURES **BENEFITS** Stationary design For high speed service (6500 FPM) **Balanced** design For pressures to 1200 psig Silicon carbide seat standard Best PV factor/runs cooler Flush, quench and drain Wide range of environmental connections standard control options Cartridge design Easy to install



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Single inside rotary

Designed for a wide range of chemicals and products of vastly different concentrations, temperatures, viscosities and pressures; it is especially recommended for slurry and abrasive applications.

PERFORMANCE

speed:	5000 FPM (25.5 MPS)
Pressure:	28" (700mm Hg) Hg vacuum to 400 psig
	(28 bar) depending on speed and
	pressure
Temperature:	-20° F (-30°C) to $+400^{\circ}$ F (+205°C) with
-	fluoroelastomer O-Ring standard; -65°F
	(-55°C) to $+300^{\circ}$ F (+150°C) with EPR
	O-Ring; $0^{\circ}F$ (-20°C) to +500°F (+260°C)
	with Kalrez [®] O-Ring (optional)

MATERIALS

Metal parts:	316SS standard
Set screws:	Hastelloy C
Springs:	Hastelloy C
O-Rings:	fluoroelastomer standard
Rotary face:	chemical grade carbon, tungsten
U U	carbide



STANDARD O-RING SEAT





FEATURES

- Balanced design
- Isolated springs
- Static shaft O-Ring
- Fits all ANSI pumps

BENEFITS

High psig capability Prevents clogging No shaft/sleeve wear No pump modification

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Single outside rotary

The Style 16 mechanical seal is an outside mounted seal for corrosive applications.

PERFORMANCE

Speed: Pressure:

2500 FPM (12.7 MPS) 150 psig (10 bar) Temperature: 400°F (205°C)

MATERIALS Metal parts: Set screws: Springs:

Rotary face:

O-Ring:

316SS Hastelloy C Hastelloy C fluoroelastomer standard

chemical grade carbon, other options available

FEATURES

- Outside mounted
- Preset •
- Balanced design
- Split drive collar option
- Metal parts isolated from media

BENEFITS

Accessible for cleaning and resetting No measuring required Withstands up to 150 psig Suitable for plastic or coated shafts Eliminates corrosion



External mounted rotary for hostile services

The seal for hostile chemical environments and food processes where contamination is undesirable.

STYLE 30

PERFORMANCE

1500 FPM (7.5 MPS) Speed: 75 psig (5 bar) Pressure: Temperature: 212°F (100°C)

MATERIALS

Metal parts: 316SS 316SS set screws: Rotary face: filled PTFE, chemical grade carbon



FEATURES	BENEFITS
 Unique PTFE bellows design Replaceable rotary seal ring Unitized construction Optional faces available 	No metal parts in contact with product Easy in-field repair Easy to install Seal can be designed for specific customer needs
	needs





Metal bellows rotary

The metal bellows seal design eliminates dynamic O-Rings and conventional springs. It is the logical choice for multi-purpose seal applications. PERFORMANCE

speed: 5000 FPM (25.5 MPS) Pressure: 300 psig (20 bar) (vacuum to 30" Hg) (750mm Hg) Temperature: $+400^\circ F~(+205^\circ C)$

MATERIALS

316SS, AM-350 bellows, Hastelloy C (optional) Metal parts: set screws: Hastelloy C **O-Rings:** fluoroelastomer standard chemical grade carbon standard; nickle bound tungsten Rotary face: carbide optional

FEATURES

- Inherently balanced
- Self-cleaning design
- No dynamic secondary seal
- Choice of bellows
- . Small cross section

BENEFITS

Less heat generated at seal face No springs to clog Eliminate seal hang-up and fretting Optional metallurgies satisfy wide range of applications Compatible with most existing stuffing box designs

STYLE 65



Model 65 is ideally suited for the high-temperature service conditions found in today's chemical, petrochemical, refinery and power generation industries.

PERFORMANCE

5000 FPM (25.5 MPS) speed: 300 psig (20 bar) (vacuum to 30" Hg) (750mm Hg) Pressure: Temperature: +800°F (+425°C)



MATERIALS

Metal parts: set screws: Rotary face:

316SS, AM-350 bellows, Hastellov C Hastelloy C chemical grade carbon standard; tungsten carbide optional

Innerently balanced

Self-cleaning design

FEATURES

- No dynamic secondary seals
- Choice of bellows
- ♦୦୦୦ **Cross** •₩₩♦₩□■

BENEFITS

Less neat generated at seal face No springs to clog Eliminates seal hangup and fretting Optional metallurgies satisfy wide range of applications Compatible with most existing stuffing box designs GRAPH-LOCK® secondary seal High temperature capability

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Singe spring rubber bellows seal assembly

ST

The FLUIDTEC PK" seal provide economic an&efficient sealing. The PK features the proven single spring, rubber bellows design protected by a stainless steel outer shell.

'YIF PK

PERFORMANCE

2500 FPM (12.7 MPS) Speed: MATERIALS Metal parts: 316SS Springs: stainless steel Bellows: fluoroelastomer or nitrile Faces: carbon vs. ceramic, tungsten carbide optional. See price list for other material options.

FEATURES

0

Unitized construction No loose parts to inventory or misplace Standard Viton bellows Chemical compatibility of fluoroelastomer Short operating lengthFully enclosed single spring Can be used in shallow stuffing boxes Helps prevent dogging in dirty environments Rotary face can float to compensate for mis-Carbon face flexibility alignment Tungsten carbide option Handles abrasive applications

BENEFITS



STYLE 10 outside mount

Versatile design for a range of services

The Style 10 seal can be mounted inside or outside the stuffing box, or as a single or double seal.

STYLE 10

PERFORMANCE

5000 FPM (25.5 MPS) speed: to 250 psig (17 bar) mounted inside; Pressure: to 50 psig (3 bar) mounted outside Temperature: -20° F (-30° C) to +400° F (+205° C)

MATERIALS

Metal parts: 316SS set screws: 316SS Springs: Hastelloy C **O-Rings:** fluoroelastomer standard chemical grade carbon Rotary face: standard, tungsten carbide optional

STYLE 10 inside mount

FEATURES	BENEFITS
Compact construction	For use in small stuffing boxes or where multiple seals are needed
Can be used inside or outside stuffing box, single or double	Adaptable to many applications
• Factory repairable	Reuseable seal components
. Interchangeable secondary seals,	Capable of handling a wide range of
Viton or TFE	chemical applications





STYLE P/S-I

A new concept in rotary shaft seal design

The FLUIDTEC P/S[®]-I is a simple, versatile and economic replacement for conventional lip seals, restriction bushings, compression packings, and mechanical seals.

The success of P/S technology

stems from the ultilization of the proprietary GYLON® process. Components are selected and combined to provide superior positive sealing and long service life in a wide range of applications.

FEATURES	BENEFITS
• GYLON sealing element	Chemical resistance of PTFE and carbon. Dry running capability. Unaffected by axial end play Of torque.
• Optional shell	Anti-stick characteristics. Positive sealing in both vacuum and pressure. Excellent exclusion capacity Applicable to a wide range of adverse chemical
materialsSimple construction	applications Needs only limited space, easy to install. Very versatile: vertical/horizontal, small or large shafts, static to high speed applications.

P/S and GYLON are registered trademarks of Garlock Inc





P/S-I Seal used as product excluder with mechanical seal





standard configuration







double opposing lip



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See P/S-I & P/S-II engineering brochure for additional performance and installation data



P/S-II Seal

Double



STYLE P/S-II

Multiplelippedcartridgeseal

The FLUIDTEC P/S®-II sealing system builds on the concept of the P/S-I by specifically engineering various lip configurations to meet the special challenges of today's and tomorrow's industry.

Depending upon the requirements, the configuration of the sealing elements can be tailored to serve a variety of purposes. This results in a specific, but proven, solution for each application. Seal performances can actually be checked through the inclusion of various monitoring devices in the seal housing. Today's environmental concerns can be met with cartridge type P/S-II seals.

PERFORMANCE P/S-I & P/S-II

Pressure:	150 psig (10 bar)
Vacuum:	28" Hg
Temperature:	$-130^{\circ}F$ (-70°C) to $+480^{\circ}F$ (+250°C)
Surface speed:	up to 1500 FPM (7.5 MPS)
-	Over 1500 FPM consult engineering

	FEATURES	BENEFITS
	• Simple sealing elements	Easy, economical in-field repair. Non-clog. ging in viscous materials*. Sealing element
	• Machined gland	Engineered to fit a wide variety of equip- ment and applications
	 coated sleeve Sealing elements not housed in metal shell. Lips are supported by PTFE spacers within an engineered gland 	Lips will not damage equipment Allows extreme design versatility; facili- tates quick, simple in-plant repair
	*The P/S-II has proven to be very effect materials (often with no environmental co	tive in positive displacement pumps moving viscous ontrols).
P/S-II Seal vacuum and tandem		P/S-II Seal without sleeve

P/S-I I Seal with sleeve P/S-II Seal with sleeve and staged taps



STATIONARIES

FLUIDTEC offers a full range of stationary seats, including all standard designs, sizes and materials. In addition, FLUIDTEC offers "on-standard shapes and sizes as well as additional materials including stainless steel, "i-resist, bronze and coated faces.

MATERIALS

Silicon Carbide . . The standard for FLUIDTEC in the majority of applications. Silicon carbide offers the widest range of chemical resistance of any face material readily available today. Additionally, it is extremely hard, giving it excellent abrasion resistance. Silicon carbide also offers the highest heat transfer characteristics essential for effective sealing of high temperature liquids. Available in three grades.

Ceramic . . .

has two advantages that make it the most commonly used seat material. It is nearly chemically inert and costs substantially less than other materials. Ceramic performs well in many applications. Other materials should be considered for thermally variable service such as hydrocarbon process applications or where elevated temperatures tend to vaporize media.

Tungsten Carbide . . .

recommended for those hydrocarbon process applications destructive to ceramic materials. With good thermal shock properties, tungsten carbide also transmits heat well, minimizing media vaporization at seal faces. A hard, strong, metallic material, it easily withstands abrasive service.



STYLE 01 standard O-ring seat



STYLE 04 standard square shaped seal (cup mounted)

O-Ring and cup mounted seats are designed to be press-fitted into a machined counterbore in the gland. Before installing, the O-Ring or cup should be lubricated.



STYLE 02 standard "T" shaped seat



STYLE 08 standard "L" shaped seat

These seats are designed to be clamped against the stuffing box face. Shims should be used to properly center seat to shaft.

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