

Seal Conversions

Mechanical Seal Conversions for the Sulzer AHLSTARUP and Sulzer APP/APT Range of Pumps



- Bespoke designs
- Modular construction
- Ease of installation
- Ease of selection
- Self-aligning seal faces
- Cartridge design
- Pre-set unit for reliable installation

Mechanical seal conversions to: CURC™, FIDC™, CKSA™ and CKDA™

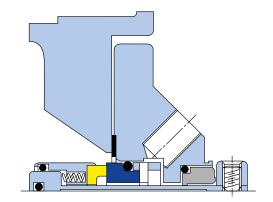
Optimum seal performance

Designed for optimum seal environment



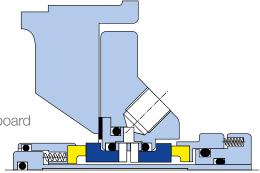
CURCTM

- Self-aligning seal faces
- Cartridge design
- Pre-set unit for reliable installation
- Carbon restriction bushing
- Flush, quench and drain ports
- No shaft fretting
- Balanced seal faces
- Non-clogging internal rotary





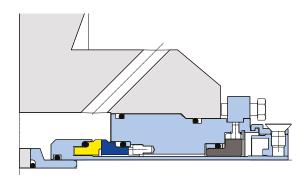
- No requirement for external flushes
- Incorporates a bi-directional flow inducer(patent pending)
- Cartridge design
- Pre-set unit for reliable Installation
- Self-aligning seal faces inboard and outboard
- No shaft fretting
- Non-clogging internal rotary





CKSATM

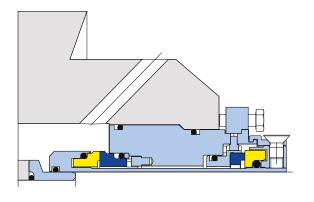
- Multi-spring energised
- Cartridge seal
- Monolithic seal faces





$\mathsf{CKDA^{\mathsf{TM}}}$

- Incorporates a bi-directional flow inducer (patent pending)
- Stationary design
- Monolithic seal faces
- Double pressure and hydraulically balanced seal faces



Conversion for Sulzer Ahlstar^{UP}

One Housing

Two Seals

Single bolt mounting

- Single
- Double

NOTE: No modifications are required to the pump in order to fit this seal

Ordering Information

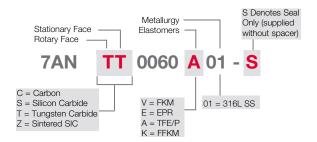


Bearing Unit Size	Pump Shaft OD	CKSA™ Stock Code	CKDA™ Stock code
1	30mm	7ANCZ0030V01*	7AHCZCS0030V01*
2	40mm	7ANCZ0040V01*	7AHCZCS0040V01*
3	50mm	7ANCZ0050V01*	7AHCZCS0050V01*
4	60mm	7ANCZ0060V01*	7AHCZCS0060V01*
5	80mm	7ANCZ0080V01*	7AHCZCS0080V01*
6	90mm	7ANCZ0090V01*	7AHCZCS0090V01*

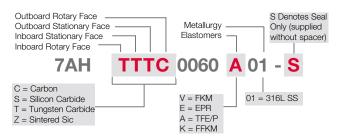
^{*}Note: CKSA™ stock codes show C v Sintered SiC seal faces, FKM elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.

*Note: CKDA™ stock codes show C/Sintered SiC//C/SiC seal faces FKM elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.

EG. 60mm CKSA™ TC TFE/P



EG. 60mm CKDA™ TC/TC TFE/P



*Note: Stock codes shown in the table are for a Seal supplied with a stub shaft & elastomer as standard.

To order a seal only add a -S suffix to the stock code as shown in the example. When only the seal is ordered a stub shaft elastomer is supplied as standard.

- For bearing unit 7, 110mm bare shaft, please contact AESSEAL®
- Seals suit Sulzer Ahlstar™ A (MS11, MS12 & MS21) Mechanical Seal standard integrated chamber
- Seals do not suit Sulzer de-gassing & self-priming units (LM, GM & GS)

AESSEAL® conversion Sulzer APP/APT Pumps

Standard Solution: for pumps with previously packed or mechanical seals with 2 or 4 bolt mountings

AESSEAL® solution includes special designed hooked sleeve to replace the OEM sleeve along with standard cartridge seals CURC™ or FIDC™ (see table below for ordering information).

The AESSEAL® solution gives the following benefits over a standard OEM seal.

- Improved lead time
- Seal is mounted directly on to the sleeve to eliminate potential risk of abrasion or chemical attack on the shaft.
- For legacy Ahlstrom brand APP/APT process pumps solutions please contact AESSEAL®

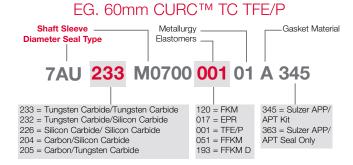
Ordering Information

Bearing Unit Size	Pump Shaft Size	Seal Shaft Sleeve Size	Single Seal Kit Stock Code (includes CURC™ Seal and Sleeve)	Dual Seal Kit Stock Code (includes FIDC™ Seal and Sleeve)
1	30mm	40mm	7AU233M040000101A345*	7AT635M040000101A345*
2	40mm	48mm	7AU233M048000101A345*	7AT635M048000101A345*
3	50mm	60mm	7AU233M060000101A345*	7AT635M060000101A345*
4	60mm	70mm	7AU233M070000101A345*	7AT635M070000101A345*
5	80mm	90mm	7AU233M090000101A345*	7AT635M090000101A345*
6	90mm	105mm	7AU233M105000101A345*	7AT635M105000101A345*

For bearing unit 7, 110mm bare shaft, please contact AESSEAL®.

*Note: The stock codes above describe a kit with a CURC™ single seal with TC v TC seal faces, TFE/P elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.

*Note: The stock codes above describe a kit with a FIDCTM dual seal with TC/TC/TC/TC seal faces TFE/P elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.



EG. 60mm FIDC™ TC/TC/TC/TC TFE/P Shaft Sleeve Metallurgy -Gasket Material **Diameter Seal Type** Elastomers M0700 001 01 A 345 7AT 635 635 = Tungsten Carbide/Tungsten 120 = FKM 345 = Sulzer APP/ Carbide//Tungsten Carbide/Tungsten 017 = EPR APT Kit Carbide 001 = TFE/P 363 = Sulzer APP/ 434 = Carbon/Tungsten Carbide//Tungsten 051 = FFKM APT Seal Only 193 = FFKM D Carbide/Carbon 538 = Silicon Carbide/Silicon Carbide// Silicon Carbide/Carbon 416 = Carbon/Silicon Carbide//Silicon

THE STOCK CODE LOGIC FOR THE SHAFT SIZES HAS CHANGED. PLEASE USE THE SHAFT SLEEVE SIZE NOT THE PUMP SHAFT SIZE

CURC

Face Combination	Size	O'ring	Metallurgy
TC/TC TC/SiC SiC/SiC CB/SiC CB/TC	40mm 48mm 60mm 70mm 90mm 105mm	FKM TFE/P EPR AES Elast FFKM D	316L SS

FIDC

Face Combination	Size	O'ring	Metallurgy
TC/TC/TC/TC CB/TC/TC/CB SiC/SiC/SiC/CB CB/SiC/SiC/CB	40mm 48mm 60mm 70mm 90mm 105mm	FKM TFE/P EPR AES Elast FKM AES Elast//FKM FFKM D	316L SS

AESSEAL® conversion Sulzer AHLSTAR™ Process Pumps fitted with DYNASEAL (3 bolt mounting)

Standard Solution: for pumps with A-, N- and W-design stuffing boxes previously fitted with DYNASEAL (with 3 bolt mountings).

AESSEAL® solution includes special designed hooked sleeve to replace the OEM sleeve along with special cartridge 3 hole gland seals FMG CURC™ or FMG FIDC™ (see table below for ordering information).

To convert to mechanical seal:

- Remove the pump repeller
- Identify the type of pump i.e. APP1, APP2, A-, N- and W-design etc
- Select the desired mechanical seal (FMG CURC™, FMG FIDC™)
- · Check dimensions before placing order
- For legacy Ahlstrom brand APP/APT process pumps solutions please contact AESSEAL

Ordering Information

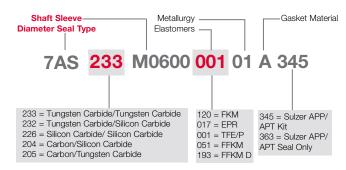
Bearing Unit Size	Pump Shaft Size	Seal Shaft Sleeve Siz	Single Seal Kit Stock Code (includes FMG CURC™ Seal and Sleeve)	Dual Seal Kit Stock Code (includes FMG FIDC™ Seal and Sleeve)
1	30mm	40mm	7AS233M040000101A345*	7AR635M040000101A345*
2	40mm	48mm	7AS233M048000101A345*	7AR635M048000101A345*
3	50mm	60mm	7AS233M060000101A345*	7AR635M060000101A345*
4	60mm	70mm	7AS233M070000101A345*	7AR635M070000101A345*
5	80mm	90mm	7AS233M090000101A345*	7AR635M090000101A345*
6	90mm	105mm	7AS233M105000101A345*	7AR635M105000101A345*

For bearing unit 7, 110mm bare shaft, please contact AESSEAL®.

*Note: The stock codes above describe a kit with a FMG CURCTM single seal with TC v TC seal faces, TFE/P elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.

*Note: The stock codes above describe a kit with a FMG FIDC™ dual seal with TC/TC/TC/TC seal faces TFE/P elastomers and 316L SS wetted parts, adjust stock code as necessary using the example below.

EG. 60mm FMG CURC™ TC TFE/P

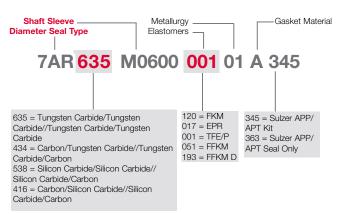


The stock code logic for the shaft sizes has changed. Please use the shaft sleeve size not the pump shaft size

CURC

Face Combination	Size	O'ring	Metallurgy
TC/TC TC/SiC SiC/SiC CB/SiC CB/TC	40mm 48mm 60mm 70mm 90mm 105mm	FKM TFE/P EPR AES Elast FFKM D	316L SS

EG. 60mm FMG FIDC™ TC/TC/TC/TC TFE/P

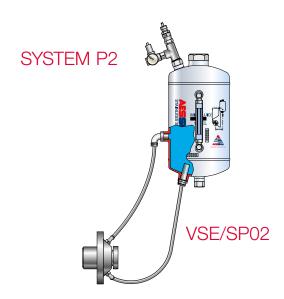


FIDC

Face Combination	Size	O'ring	Metallurgy
TC/TC/TC/TC CB/TC/TC/CB SiC/SiC/SiC/CB CB/SiC/SiC/CB	40mm 48mm 60mm 70mm 90mm 105mm	FKM TFE/P EPR AES Elast FKM AES Elast//FKM FFKM D	316L SS

Complete environmental control management systems available

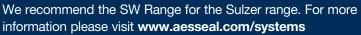




Complete environmental control management systems available



AESSEAL® high performance barrier fluid systems help to increase plant uptime even further by enhancing the environment in which mechanical seals operate. Many of these barrier fluid systems are patented, which means that the technology is exclusive to AESSEAL®.







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