

SERIES 4300/4302/4312 | MECHANICAL SEAL DATA | SUBMITTAL

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SEAL CONSTRUCTION AND LIMITS

ТҮРЕ	OUTSIDE BALANCED				INSIDE SINGLE-SPRING		
Armstrong seal reference number ②	A1 ©	A3 ©	A4 ©	D3 ©	BF, DBF, CI, DI: A2 (B) AB: A2 (A)	BF, DBF, CI, DI: C4 (B) AB: C4 (A)	BF, DBF, CI, DI: C5 ^(B) AB: C5 ^(A)
Manu code	C-SSC AB2	SSC-SSC AT70	AC-SSC AT70	TC-B RA	C-CER 1A	C-TC 1A	AC-TC 1A
Rotating face	Resin-bonded carbon	Sintered silicon carbide	Antimony-loaded carbon	Tungsten carbide	Resin-bonded carbon	Carbon	Antimony- loaded carbon
Stationary face	Sintered silicon carbide	Sintered silicon carbide	Sintered silicon carbide	Bronze	Ceramic	Tungsten carbide	Tungsten carbide
Elastomer	Viton	Aflas	Aflas	Viton	EPDM	EPDM	EPDM
Springs	Stainless steel	Stainless steel	Stainless steel	Alloy 20	Stainless steel	Stainless steel	Stainless steel
Rotating	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless
hardware	steel	steel	steel	steel	steel	steel	steel
Gland plate	Stainless steel	Stainless steel	Stainless steel	Stainless steel	See notes for Gland plate materials ②		
Maximum	350 PSIG	350 PSIG	260 PSIG	325 PSIG	140 PSIG	210 PSIG	210 PSIG
pump	@ 200°F	@ 200°F	@ 300°F	@ 250°F	@ 250°F	@ 250°F	@ 250°F
operating	400 PSIG	400 PSIG	400 PSIG	375 PSIG	175 PSIG	250 PSIG	250 PSIG
conditions ①	@ 100°F	@ 100°F	@ 100°F	@ 100°F	@ 150°F	@ 100°F	@ 100°F

NOTES:

- (1) For clean untreated water. For pumping temperatures above 200°F, longer mechanical seal life can be achieved if flushing liquid is cooled by an external heat exchanger to maintain seal flush water below 200°F.
- ② Armstrong seal reference number is made up of the seal number (A1, C4, D3, etc.) and a gland plate material letter:
 - (A) Bronze
 - **B** Cast iron
 - © 316 stainless steel

Example: Armstrong outside balanced seal, with carbon and silicone carbide faces and 316 stainless steel gland plate is A1 ©.

STANDARD GLAND PLATE MATERIALS

PUMP CONSTRUCTION	STANDARD GLAND PLATE Material			
	OUTSIDE SEAL	INSIDE SEAL		
BF, DBF	Stainless steel ©	Cast iron ®		
AI, DI	Stainless steel ©	Cast iron ®		
AB	Stainless steel ©	Bronze (A)		

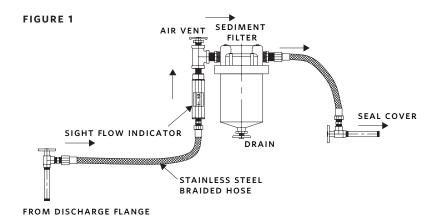
FLUSH LINE OPTIONS

300PSIG/20BARWP

Sediment filter with sight flow indicator

(FIGURE 1)

A 50 micron cartridge type with sight flow indicator are factory installed in the mechanical seal flush line. The filter cartridge must be changed at regular intervals (see file 43.85 for installation and operating instructions).

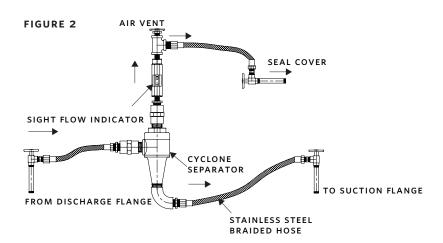


250PSIG/16BARWP

Sediment separator with sight flow indicator

(FIGURE 2)

A sediment separator and sight flow indicator are factory installed in the flush line. This arrangement is maintenance-free; however a minimum pump head of 70FT/30PSIG/2BAR or greater is required for effective operation (see file 43.86 for installation and operating instructions).



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