

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

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SEAL CONSTRUCTION AND LIMITS

TYPE	OUTSIDE BALANCED				INSIDE SINGLE-SPRING		
Armstrong seal reference number ②	A1®	G30P®	G30®	D4®	BF, DBF, CI, DI: A2 ③ AB: A2 ③	BF, DBF, CI, DI: C4 ③ AB: C4 ③	BF, DBF, CI, DI: C5 ③ AB: C5 ③
Manu code	C-SSC AB2	SSC-SSC G30P	C-SSC G30	TC-C RA	C-CER 1A	C-TC 1A	AC-TC 1A
Rotating face	Resin-bonded carbon	Sintered silicon carbide	Carbon	Tungsten carbide	Resin-bonded carbon	Carbon	Antimony-loaded carbon
Stationary face	Sintered silicon carbide	Sintered silicon carbide	Sintered silicon carbide	Carbon	Ceramic	Tungsten carbide	Tungsten carbide
Elastomer	Viton	Viton	Viton	Viton	EPDM	EPDM	EPDM
Springs	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Rotating hardware	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Gland plate	Stainless steel	Stainless steel	Stainless steel	Stainless steel	See notes for Gland plate materials ②		
Maximum pump operating conditions ①	350 PSIG @ 200°F 400 PSIG @ 100°F	330 PSIG @ 200°F 400 PSIG @ 100°F	260 PSIG @ 300°F 400 PSIG @ 100°F	325 PSIG @ 250°F 375 PSIG @ 100°F	140 PSIG @ 250°F 175 PSIG @ 150°F	210 PSIG @ 250°F 250 PSIG @ 100°F	210 PSIG @ 250°F 250 PSIG @ 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:
- ③ Bronze
 - ④ Cast iron
 - ⑤ 316 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 ③	Cast iron ④
AI, DI	Stainless steel ③	Cast iron ④
AB	Stainless steel ③	Bronze ⑤

FLUSH LINE OPTIONS

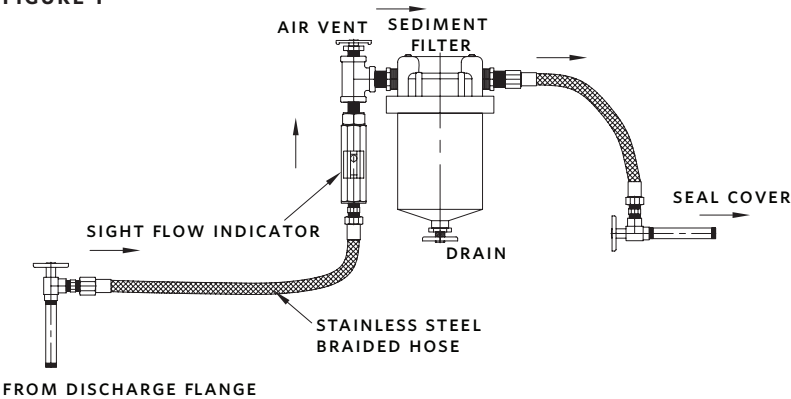
300PSIG/20BARWP Sediment filter with sight flow indicator



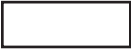
(FIGURE 1)

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).

FIGURE 1



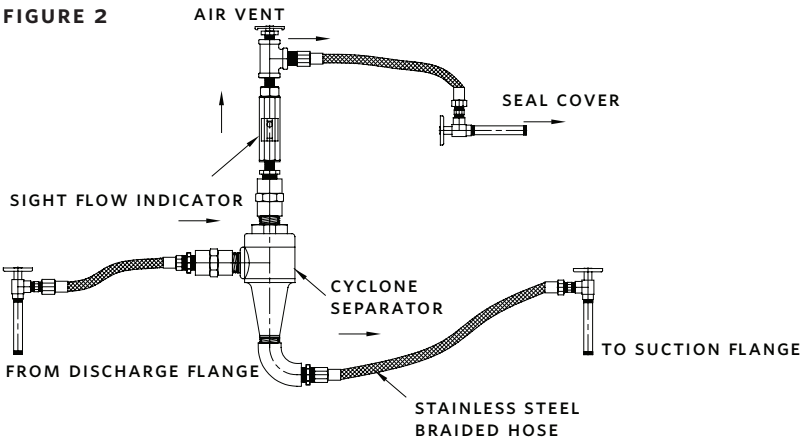
250PSIG/16BARWP Sediment separator with sight flow indicator



(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).

FIGURE 2



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