

Series 4300 / 4302 Mechanical Seal Data

SUBMITTAL DATA

Seal Construction and Limits

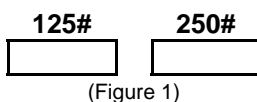
Type	Outside Balanced					Inside Unbalanced		
	A1	C1	C2	D1	D2	A2	C3	C4
Armstrong Seal Reference Number (2)	Gland Plate: (c) 316 ss	Gland Plate: (c) 316 ss	Gland Plate: (c) 316 ss	Gland Plate: (c) 316 ss	Gland Plate: (c) 316 ss	Gland Plate: (a) Bronze (b) CI	Gland Plate: (a) Bronze (b) CI	Gland Plate: (a) Bronze (b) CI
Brand	Armstrong	John Crane	John Crane	Flowserve	Flowserve	Armstrong	John Crane	John Crane
Model	Type AB2	Type 8B2	Type 8B2	RA	RA	Type 1A	Type 1	Type 1
Rotating Face	Carbon	Carbon	Carbon	Dura-chrome	Tungsten Carbide	Carbon	Carbon	Carbon
Stationary Seat	Silicon Carbide	Ceramic	Tungsten Carbide	Carbon	Carbon	Ceramic	Ceramic	Tungsten Carbide
Elastomer	Viton	Viton	Viton	Viton	Viton	EPDM	EPDM	EPDM
Springs	Stainless Steel	Stainless Steel	Stainless Steel	Alloy 20	Alloy 20	Stainless Steel	Stainless Steel	Stainless Steel
Rotating Hardware	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Gland Plate	See Notes for Gland Plate Materials (2)							
Maximum Pump Operating Conditions (1)	260 psig @ 300°F 400 psig @ 100°F	225 psig @ 300°F 300 psig @ 100°F	260 psig @ 300°F 400 psig @ 100°F	225 psig @ 300°F 300 psig @ 100°F	260 psig @ 300°F 400 psig @ 100°F	140 psig @ 250°F 175 psig @ 150°F	140 psig @ 250°F 175 psig @ 150°F	210 psig @ 250°F 250 psig @ 100°F

NOTES:

- 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.
- Armstrong Seal Reference number is made up of the seal number (A1, C3, D1, etc.) and a gland plate material letter:
(a) Bronze (b) Cast Iron (c) 316 Stainless Steel
Example: Armstrong outside balanced seal, with Carbon and Silicone Carbide faces and 316 Stainless Steel gland plate is A1(c).

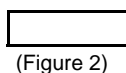
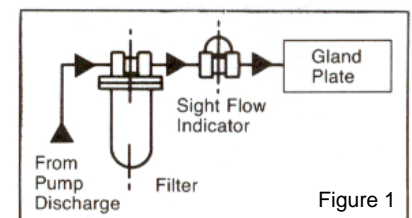
Standard Gland Plate Materials				
Pump Construction		BF, DBF	AI, DI	AB
Standard Gland Plate Material	Outside Seal	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
	Inside Seal	Cast Iron	Cast Iron	Bronze

Flush Line Options



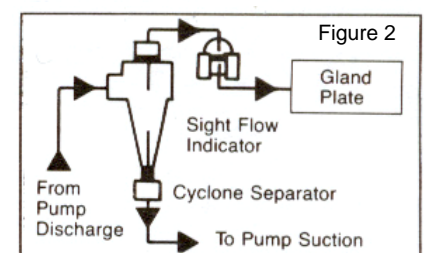
Cartridge Filter with Sight Flow Indicator

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)



Cyclone Separator with Sight Flow Indicator

A cyclone separator and sight flow indicator are factory installed in the flush line. This arrangement is maintenance-free, but a differential pressure of 30 psig or greater across the pump is required for effective operation.
(See File 43.86 for Installation and Operating Instructions)



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