

## Series 4300 / 4302 Mechanical Seal Data

## SUBMITTAL DATA

### Seal Construction and Limits

Type	Outside Balanced					Inside Unbalanced		
	Armstrong Seal Reference Number (2)	A1 Gland Plate: (c) 316 ss	C1 Gland Plate: (c) 316 ss	C2 Gland Plate: (c) 316 ss	D1 Gland Plate: (c) 316 ss	D2 Gland Plate: (c) 316 ss	A2 Gland Plate: (a) Bronze (b) CI	C3 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	225 psig @ 300°F	260 psig @ 300°F	225 psig @ 300°F	260 psig @ 300°F	140 psig @ 250°F	140 psig @ 250°F	210 psig @ 250°F
	400 psig @ 100°F	300 psig @ 100°F	400 psig @ 100°F	300 psig @ 100°F	400 psig @ 100°F	175 psig @ 150°F	175 psig @ 150°F	250 psig @ 100°F

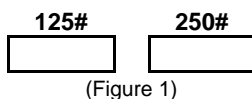
#### NOTES:

- 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 Silicon Carbide faces and 316 Stainless Steel gland plate is A1(c).

### Standard Gland Plate Materials

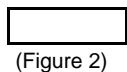
Pump Construction	BF, DBF	AI, DI	AB
Standard Gland Plate Material	Outside Seal: 316 Stainless Steel Inside Seal: Cast Iron	316 Stainless Steel Cast Iron	316 Stainless Steel Bronze

### Flush Line Options



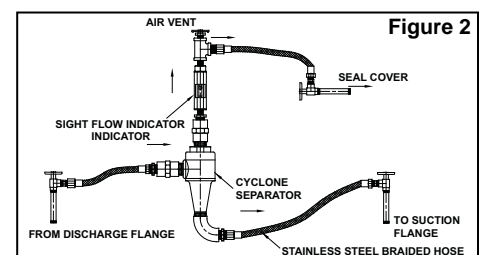
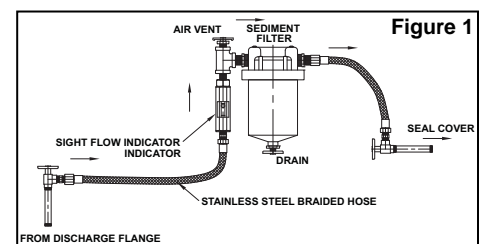
#### Cartridge Filter with Sight Flow Indicator

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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