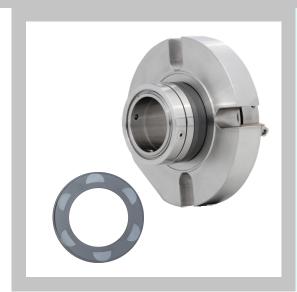
CTX - GSDN Dual Seals

Standard Cartridge Seals For Pumps - Gas Lubricated

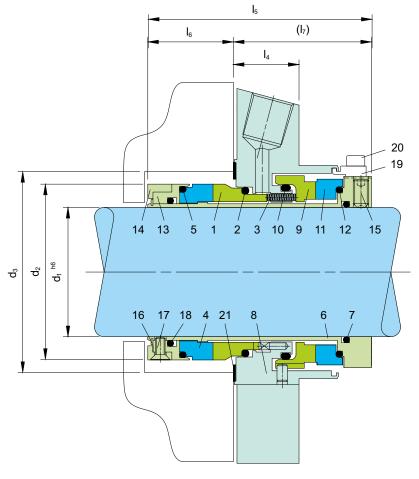


Product Description

- 1. Dual seal configuration
- 2. Balanced design
- 3. Cartridge construction
- 4. Stationary design with multiple springs
- 5. Seat design is rotary
- 6. Designed to remain in closed position in the event of buffer pressure failure,
- 7. Can accommodate reverse pressure
- 8. Gas-lubricated design
- Gas grooves design is available in Vgrooves and U-grooves (independent of direction of rotation)

Technical Features

- 1. Seal faces are designed to be noncontacting during operation
- 2. Designed for environmental protection with high efficiency
- Due to non-contacting design there is no friction on the seal faces and there is no heat generated at the seal or in the medium
- 4. Trouble free operations as complex components are not required to dissipate frictional heat



Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1,9	Seal face
2,5,7,10,12,18	O-ring
3	Spring
4,11	Seat
6	Shaft sleeve
8	Cover
13	Adapter

Item	Description
14	Ring
15	Set screw
16	Retaining ring
17	Counter-sunk socket screw
19	Assembly fixture
20	HSH Cap Screw
21	Gasket

Typical Industrial Applications							
API & ISO Pumps	Gases and liquids						
Blowers	Oil & gas						
Chemical	Petrochemical						
Environmental harmful	Refining technology						
media	Roots compressors						
Fans	Small steam turbines						

Materials				
Seal face	Silicon Carbide (Q1/Q19)			
Seat	Silicon Carbide (Q19/Q1)			
Secondary Steal	FKM (V), EPDM (E), FFKM (K)			
Spring	Hastelloy°C-4 (M)			
Metal parts	CrNiMo steel (G),Hastelloy®C-4 (M)			

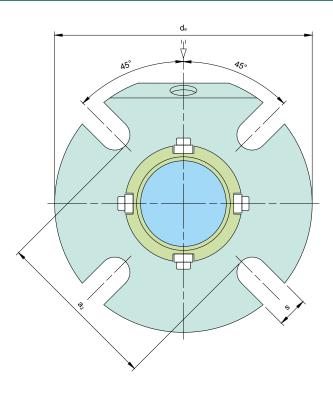
Performance Capabilities						
Shaft diameter	d ₁ = 30100 mm (1.18" 3.94")					
Pressure	p_1 = 13 bar (189 PSI), p_3 = 16 bar (232 PSI)					
	p ₁ = 9 bar (131 PSI), p ₃ = 12 bar (174 PSI)					
with U-grooves (bi-directional)						
Differential press	sure (p ₃ - p ₁) = min. 3 bar (44 PSI)					
Operating temperature limits for	EPDM -20 °C+140 °C (-4 °F+284 °F)					
	FFKM -5 °C+300 °C (+23 "F+572°F)					
	FKM -20 °C+170 °C (-4 °F. +338 °F)					
Speed	4 15 m/s (13 49 ft/s)					

Axial movement:

± 1.0 mm



Installation, Details, Options



Dimensional Data

Dimensions in millimeter											
d-	1 d ₂	d ₃ min	. d ₃ max	. l ₄	I ₅	I ₆	I ₇	a ₂	d_a	s	
3	0 52.	0 54	57	25.4	86	33	53	67	105	14	
3	3 55.	0 57	60	25.4	86	33	53	70	108	14	
3	5 57.	5 59	62	25.4	86	33	53	72	110	14	
3	8 61.	0 63	70	25.4	86	33	53	75	123	14	
4	0 61.	0 63	70	25.4	86	33	53	77	123	16	
4	3 64.	0 66	70	25.4	86	33	53	80	133	16	
4	5 67.	0 68	75	25.4	86	33	53	82	138	16	
4	8 70.	0 71	77	25.4	86	33	53	85	138	16	
5	0 71.	0 73	78	25.4	86	33	53	87	148	16	
5	3 75.	3 77	82	28.5	89	33	56	97	148	18	
6	0 83.	5 85	90	28.5	89	33	56	104	155	18	
6	5 93.	0 95	102	25.4	100	41.6	58.4	116	163	18	
7	0 101.	0 102	110	25.4	100	41.6	58.4	124	178	18	
7.	5 107.	0 108	119	28	107	41.6	65.4	129	193	18	
8	0 111.	0 111	124	28	107	41.6	65.4	129	198	18	
9	0 121.	0 121	131	28	107	41.6	65.4	140	205	22	
10	0 130.	0 132	144	28	107	41.6	65.4	154	218	22	

Note: Additional technical & dimensional information will be provided on request.

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.