



## DESCRIPTION

Mechanical seal in the GS-TYPE21 series is the ideal for general-purpose applications, designed for large batch production. Efficient stock keeping due to easily interchangeable parts.

d		D3(GW21)		D1		L2		L1	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
3/8"	10	0.815	20.70	0.875	22.23	0.284	7.21	0.812	20.62
1/2"	12	0.886	22.50	1.000	25.40	0.312	7.93	0.812	20.62
5/8"	14 / 16	1.051	26.70	1.250	31.75	0.405	10.28	0.875	22.22
3/4"	18	1.224	31.10	1.375	37.93	0.405	10.28	0.875	22.22
7/8"	20 / 22	1.315	33.40	1.500	38.10	0.405	10.28	0.937	23.80
1"	24 / 25	1.575	40.00	1.625	41.28	0.437	11.10	1.000	25.40
1-1/8"	28	1.655	42.00	1.750	44.44	0.437	11.10	1.062	26.97
1-3/16"	30	1.850	47.00	1.875	47.63	0.437	11.10	1.062	26.97
1-1/4"	32	1.850	47.00	1.875	47.63	0.437	11.10	1.062	26.97
1-3/8"	33 / 35	2.009	51.00	2.000	50.80	0.437	11.10	1.125	28.58
1-1/2"	38	2.166	55.01	2.125	53.98	0.437	11.10	1.125	28.58
1-5/8"	40	2.244	57.00	2.375	60.33	0.500	12.70	1.375	34.93
1-3/4"	43 / 44	2.420	61.50	2.500	63.50	0.500	12.70	1.375	34.93
1-7/8"	45	2.580	65.50	2.625	66.68	0.500	12.70	1.500	38.10
2"	48 / 50	2.660	67.60	2.750	69.85	0.500	12.70	1.500	38.10
2-1/8"	53	2.836	72.00	3.000	76.20	0.562	14.28	1.688	42.88
2-1/4"	55	3.075	78.10	3.125	79.38	0.562	14.28	1.688	42.88
2-3/8"	58 / 60	3.150	80.00	3.250	82.55	0.562	14.28	1.812	46.02
2-1/2"	63	3.270	83.10	3.375	85.73	0.562	14.28	1.812	46.02
2-5/8"	65	3.470	88.10	3.375	85.73	0.625	15.90	1.937	49.20
2-3/4"	68 / 70	3.625	92.01	3.500	88.90	0.625	15.90	1.937	49.20
2-7/8"	73	3.734	94.85	3.750	95.25	0.625	15.90	2.062	52.37
3"	75	3.900	99.05	3.875	98.43	0.625	15.90	2.062	52.37

VITON is a registered trademark of DuPont.



## MECHANICAL SEAL GS- TYPE 21

### Recommended Applications

- Water and waste water technology
- Process pumps
- Industrial pumps
- Petroleum chemical industry
- Other Rotating Equipment

### Features

- Single and elastomer bellows mechanical seal
- Bi-directional
- Non-sliding design structure, elastomer bellows automatically compensates for primary ring wear,
- GS-TYPE 21 series can also be used as double face mechanical seals in two sets arrangement
- Available in metric and inch size

### Operating range

- Pressure:  $p=0 \dots 1.0 \text{ Mpa}$  - 145psi
- Temperature  $t = -20 \text{ }^\circ\text{C} \dots 150 \text{ }^\circ\text{C}$  (-4°F to 302°F)
- Sliding velocity:  $V_g \leq 13 \text{ m/s}$  - 42.6ft/m

### Combination Materials

- Rotary Face
  - Carbon graphite resin impregnated Ak
  - Silicon carbide (RBSiC) O
  - Hot-Pressing Carbon
- Stationary Seat
  - Aluminium oxide (Ceramic)
  - Silicon carbide (RBSiC) O
  - Tungsten carbide
- Auxiliary Seal
  - Nitrile-Butadiene-Rubber (NBR) 100°C
  - Fluorocarbon-Rubber (Viton) 204°C
  - Ethylene-Propylene-Diene (EPDM) 150°C
- Spring
  - Stainless Steel (SUS304)
- Metal Parts
  - Stainless Steel (SUS304)

**Notes:** The range of pressure, temperature and sliding velocity is depend on seals combination materials