



## CHARACTERISTICS

### Applications:

VAZEL mechanical seal Line "A1" is used in every pump of rotary turbines, mixers, compressors, and a wide variety of services and applications.

### Dimintions

A	B	C	D	E	L	M	N
±0.002	±0.002	REF.	Min.	Máx.	±0.020	±0.005	±0.015
5/8	1.250	0.688	1.343	1.218	1.312	0.344	0.406
3/4	1.375	0.813	1.468	1.343	1.312	0.344	0.406
7/8	1.500	0.938	1.656	1.531	1.375	0.344	0.406
1	1.625	1.063	1.750	1.625	1.562	0.375	0.438
1-1/8	1.750	1.188	1.870	1.745	1.625	0.375	0.438
1-1/4	1.875	1.313	2.000	1.875	1.625	0.375	0.438
1-3/8	2.000	1.438	2.125	2.000	1.687	0.375	0.438
1-1/2	2.125	1.563	2.250	2.125	1.687	0.375	0.438
1-5/8	2.375	1.688	2.500	2.375	2.000	0.438	0.500
1-3/4	2.500	1.813	2.625	2.500	2.000	0.438	0.500
1-7/8	2.625	1.938	2.750	2.625	2.125	0.438	0.500
2	2.750	2.063	2.937	2.812	2.125	0.438	0.500
2-1/8	3.000	2.188	3.125	3.000	2.375	0.500	0.562
2-1/4	3.125	2.313	3.250	3.125	2.375	0.500	0.562
2-3/8	3.250	2.438	3.375	3.250	2.500	0.500	0.562
2-1/2	3.375	2.563	3.500	3.375	2.500	0.500	0.562
2-5/8	3.375	2.688	3.750	3.625	2.750	0.562	0.625
2-3/4	3.500	2.813	3.875	3.750	2.750	0.562	0.625
2-7/8	3.750	2.938	4.000	3.875	2.875	0.562	0.625
3	3.875	3.125	4.187	4.062	2.875	0.562	0.625

NOTE: All measurements are in inches.  
Dimintions as specified in the ASTM norm

### Design:

Rubber belows with undulations, its caracteristic is the self-alignment that balances excesive movements of the axle, with non-clogging single spring.

### Materials:

	1	Metallic parts.....	304 Stainless Steel
	2	Springs.....	304 Stainless Steel
	3	Faces.....	Graphite Carbon, Silicon Carbide, Tungsten Carbide.
	4	Packing.....	Nitrile, Viton®, Neoprene®, E.P.R.
	5	Seat.....	Alumina, Silicon Carbide, Tungsten Carbide, 316 Stainless Steel, Ni-Resist

### OPERATIONAL LIMITS

OPERATION	LIMITS
SHAFT SPEED	3,000 RPM*
PRESSURE	425 PSI (29.8 kg/cm <sup>2</sup> )

\*Depending on shaft's diameter

### INSTALLATION CRITERIA

SHAFT	LIMITS
SURFACE FINISH	32 a 63 Ra
OUT OF ROUNDNESS	± 0.051mm / 0.002"
EXTREME AXIAL MOVEMENT	± 0.013mm / 0.005"

### TEMPERATURE LIMITS

