

Industries Served

Automotive
Domestic Appliances
Light Industrial
Appliances
Light Oil Duties
Water Systems

- A. Joint de siège
- B. Contrebague
- C. Rondelle de frottement
- D. Membrane ou soufflet
- E. Ressort

Applications

The seal is specifically designed for high volume, small centrifugal water pumps, washing machine pumps, swimming pool pumps, transmissions and speed reducers, fuel oil pumps. Only if the external pressure is superior to the internal pressure.

Operating conditions

- **Temperature :**
-20°C to +120°C
- **Pressure :**
Up to 5 bar.
- **Speed :**
Up to 8 m/s
- **Shaft diameter :**
D 5 to 16mm
- **Seats :**
These seals can be used with interchangeable seats. They are commonly used with L seats.

Benefits

- **One-piece construction**
Factory-assembled seal permits fast and easy production line installation.
- **Internal spring**
The use of an internal spring prevents contact with the sealed fluid and provides a smooth seal profile, reducing the possibility of clogging.
- **Flexible bellows**
The specific bellows design simplify the seal structure, provides an efficient friction drive with no influence of the pressure on the face loading. This provides reliable low-torque running.
- **Elastomers**
A wide range of fluids and temperatures can be handled reliably by the range of available elastomers.

Typical Arrangement / Dimensional data

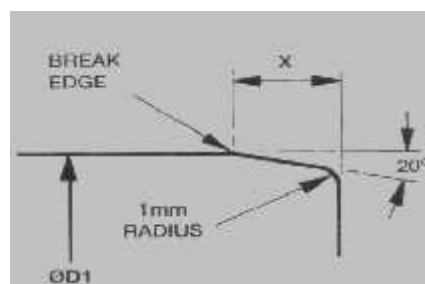
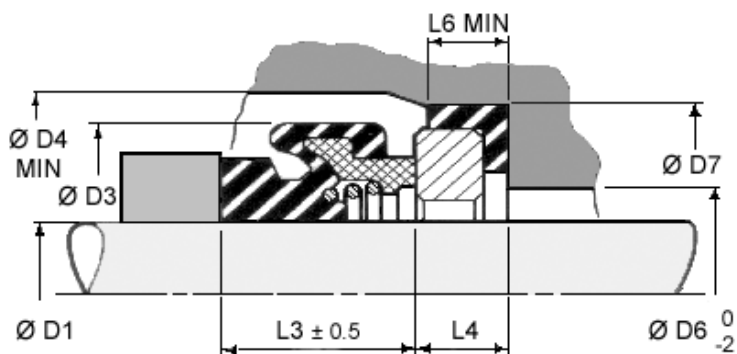


Table 1. Type MLE seal and L seat (mm)

Shaft Diameter D1 (mm)	Seal Code	Seal head		D4	D6	Seat		
		D3	L3			D7	L4	L6
5	0050	14	10,0	16	12	18	5	4
8	0080	20	12	22	13	18	5	4
10	0100	24	11.5	26	15	26*	5	4
12	0120	24	13.5	26	17	26*	5	4
16	0160	32	13.5	34	25	30**	8	6

* Or 25 ** Other available dimensions (contact Cyclam)

For ease of installation, the lead-in edge of the shaft should be chamfered as shown.

Recommended chamfer lengths :

D1	X
5 to 8mm	- 1.5mm
10 to 16mm	- 2.5mm

Table 2. Material Identification Codes

COMPONENTS	MATERIALS			
	Standard		Optional	
	Name	Material	Code	Material
Bellows	Nitrile	01	Viton	14
			EPDM	10
Face	Phenolic-based Carbon *	026	-	-
	Carbographite**	52	-	-
Spring	Stainless Steel	31	-	-
Seat	Ceramic	41	-	-
	Porous Silicon Carbide	64	-	-
Seat Cup Rubber	Nitrile	01	Viton	14
			EPDM	10

*For seals from diameter 5 to 8 mm **Seals from diameter 10 to 16 mm

Table 3. Criteria for installation

Shaft / sleeve	Limits
Surface Finish	0.8 to 1.6 µm
Out-of-round max.	0.05 mm
Axial clearance	± 0.08 mm

