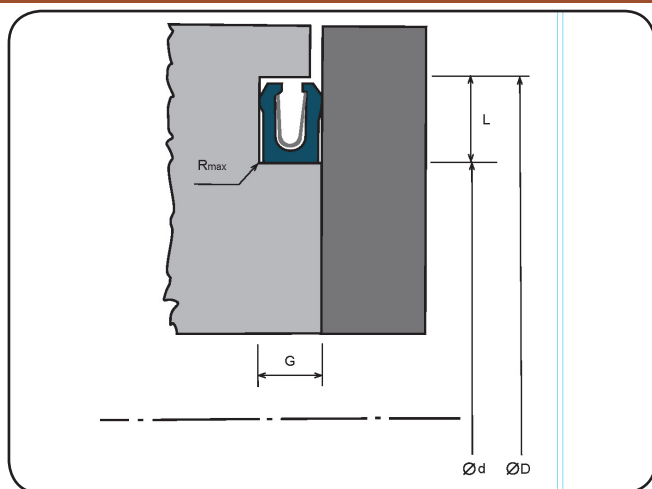


PTFE SEAL



MAIN FEATURES

FLEXI-U seals are PTFE seals, similar in design to a single-acting lip seal. The sealing is obtained by the contact of the lips with the surface in question.

The radial force is achieved by the deformation of a corrosion-resistant U-shaped spring.

At low pressures, the metal spring provides the necessary sealing force.

Depending on the pressure increase, the sealing force is produced by the system's own pressure, guaranteeing the seal's tightness from zero to high pressures. The possibility of combining with other suitable seal and spring materials allows use in a wide range of applications.

FLEXI-U

DESCRIPTION

PTFE seal for static or semi-dynamic applications

MATERIAL

PTFE + Compounds

Spring: Stainless steel AISI 301

OPERATING CONDITIONS

Speed: 15 m/sec. with reciprocating motions.

Pressure: > 350 bar.

Temperature: - 70 to + 260°C. (At higher temperatures, pressure and speed must be reduced)

TABLE OF MEASUREMENTS

Recommended Standard Series Internal Ø d H11	External housing Ø D h9	Housing height L	Housing width G + 0.15	Maximum Radius R
40 - 49.99	Ø d + 7.2	3.60	2.25	0.40
50 - 99.99	Ø d + 9.6	4.80	3.10	0.60
100 - 199.99	Ø d + 14.2	7.10	4.70	0.80
200 -	Ø d + 19.0	9.50	6.10	0.80

SURFACE ROUGHNESS

Dynamic surface $R_a < 0.3 \mu\text{m}$ $R_t < 2.5 \mu\text{m}$

Static surface $R_a < 1.6 \mu\text{m}$ $R_t < 6.3 \mu\text{m}$

ACCEPTANCE CHAMFER

D	S minimum
° Less than 100 5 mm	5 mm
° From 100 to 200 7 mm	7 mm
° more than 200 10 mm	10 mm