



***Leak-Proof Engineering (I) Pvt. Ltd.***

## **SEGMENTED CARBON SEALS**

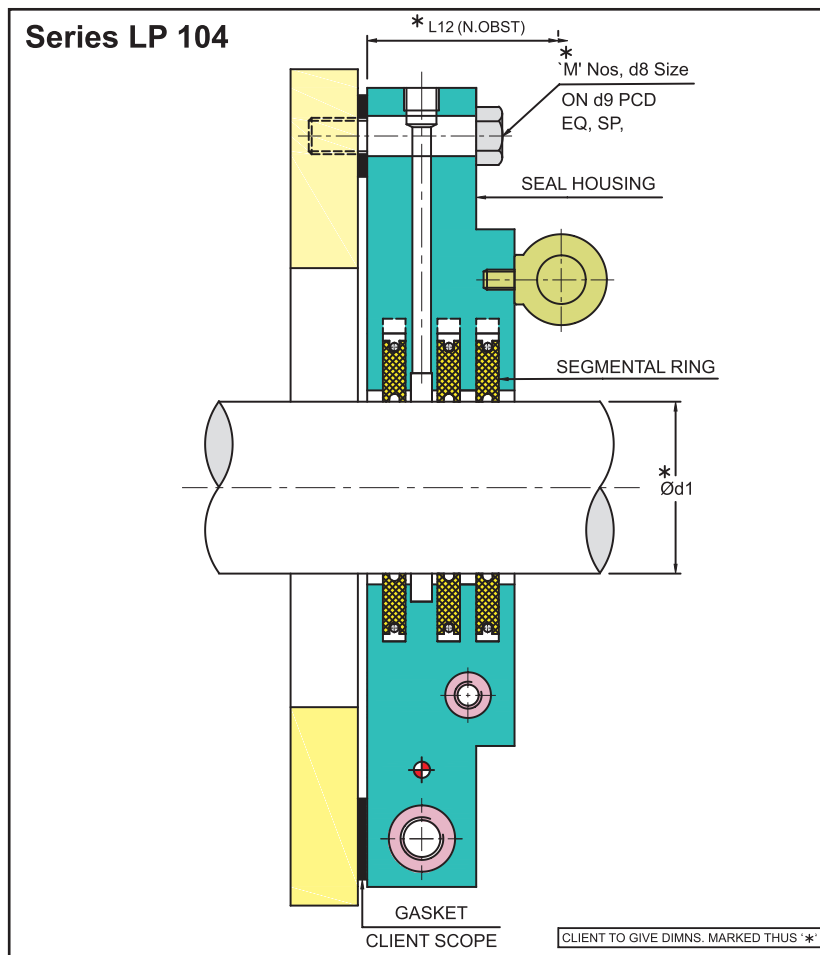
**FOR**

**Fans, Blowers, Steam Turbines, Vapour Compressors,  
Dryers, Centrifuges etc.**



# SEGMENTED CARBON SEALS

Fan & Blowers, Steam Turbines, Vapour Compressors, Centrifuges



\*\* Type of Segmented Carbon Seals will be selected depending on the application, viscosity of fluid to be sealed.

## Segmented Ring Materials

Carbon-R, Carbon-M, CFT

## ADVANTAGES

- Easy installation by split housing design (shaft removal not required)
- Long-term operation time
- Maintainability
- Segmented seal rings for easy replacement

## FEATURES

- Multi-part seal rings, overlapped mortised with gas tight joints (adjusting)
- Split housing design
- Lowest possible operation gap
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- Compensates axial shaft movements

## Operating Limits :

Shaft diameter d1 : 40 to 340mm  
 Pressure p : Vacuum.....20 bar (max)  
 Temperature t : Amb. ....200°C (max)

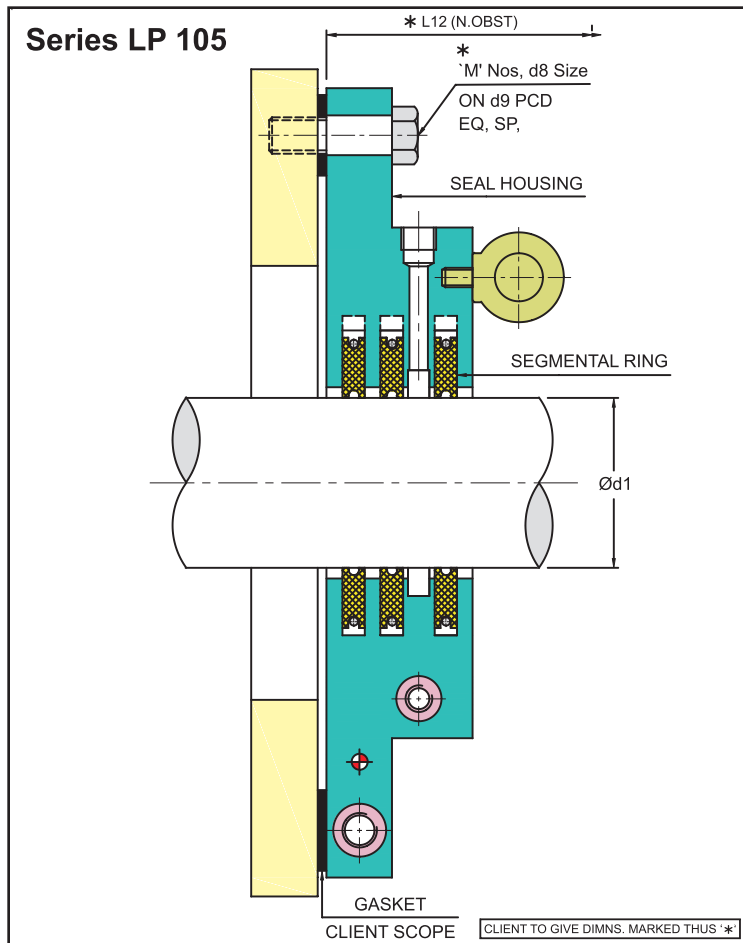
## RECOMMENDED APPLICATION

- Chemical industry
- Waste incineration and removal industry
- Pulp and paper industry
- Lime, cement and gypsum industry
- Mining industry
- Water and waste water technology
- Gases
- Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases
- (Solids containing) steams / liquid mist
- Oil mist / penetrating oil
- Water
- Medium-sized and large fans / blowers
- Bearing seals (gear box, motors)
- Steam turbines
- Mixers, agitators, dryers
- Mills (ball, hammer, beater mills)
- Centrifuges

SERIES LP 104

# SEGMENTED CARBON SEALS

Fan & Blowers, Steam Turbines, Vapour Compressors, Centrifuges



\*\* Type of Segmented Carbon Seals will be selected depending on the application, viscosity of fluid to be sealed.

## Segmented Ring Materials

Carbon-R, Carbon-M, CFT

## Operating Limits :

Shaft diameter d1 : 40 to 340mm  
 Pressure p : Vacuum.....20 bar (max)  
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## ADVANTAGES

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## FEATURES

- Multi-part seal rings, overlapped mortised with gas tight joints (adjusting)
- Split housing design
- Lowest possible operation gap
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- Compensates axial shaft movements

## RECOMMENDED APPLICATION

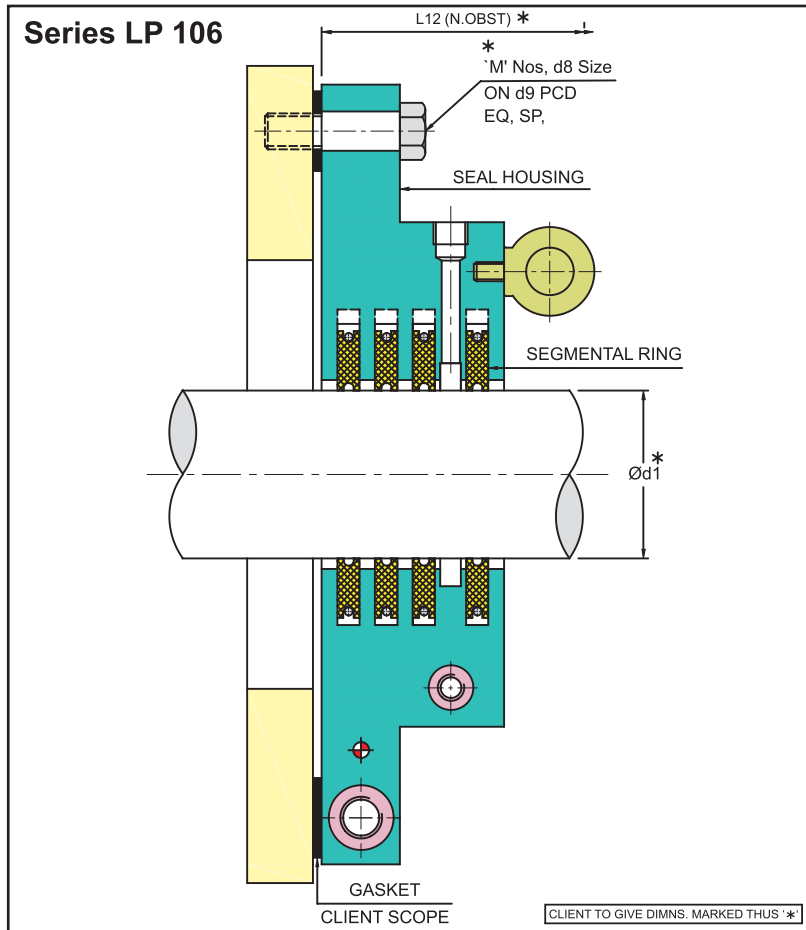
- Chemical industry
- Waste incineration and removal industry
- Pulp and paper industry
- Lime, cement and gypsum industry
- Mining industry
- Water and waste water technology
- Gases
- Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases
- (Solids containing) steams / liquid mist
- Oil mist / penetrating oil
- Water
- Medium-sized and large fans / blowers

SERIES LP 105

# SEGMENTED CARBON SEALS



Blowers, Mills, Dryers, Centrifuges, Gearbox Sealing



\*\* Type of Segmented Carbon Seals will be selected depending on the application, viscosity of fluid to be sealed.

## Segmented Ring Materials

Carbon-R, Carbon-M, CFT

## Operating Limits :

Shaft diameter  $d1$  : 40 to 340mm  
 Pressure  $p$  : Vacuum.....20 bar (max)  
 Temperature  $t$  : Amb. ....200°C (max)

## ADVANTAGES

- Easy installation by split housing design (shaft removal not required)
- Long-term operation time
- Maintainability
- Segmented seal rings for easy replacement

## FEATURES

- Split housing design
- Multi-part seal rings, radially cut
- Very small operation gap, low leakage
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- No sealing components mounted on the shaft and hence no additional shaft vibrations
- Seal rings running contact-free, sliding faces and machine consume no additional power

## RECOMMENDED APPLICATION

- Chemical industry
- Waste incineration and removal industry
- Power plant technology
- Petrochemical industry
- Food processing industry
- Metal production and processing
- Gases
- Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases
- (Solids containing) steams / liquid mist
- Oil mist / penetrating oil
- Water
- Medium-sized and large fans / blowers
- Bearing seals (gear box, motors)
- Steam turbines
- Mixers, agitators, dryers

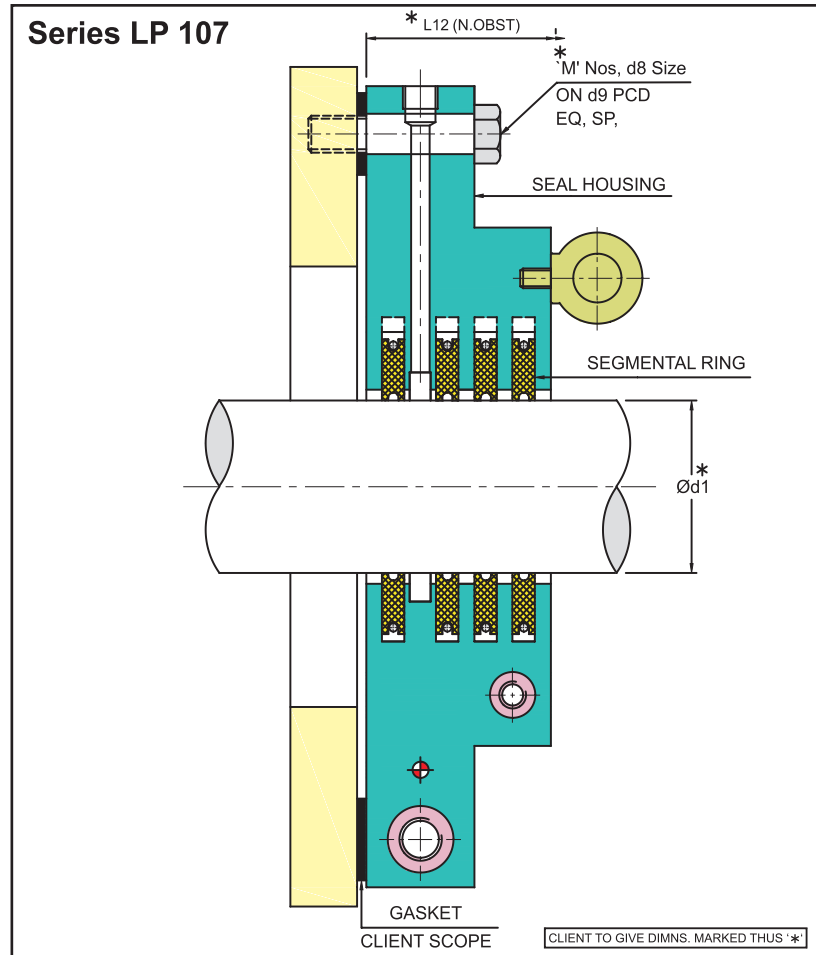
SERIES LP 106



# SEGMENTED CARBON SEALS

Simple Applications, Small Fans & Blowers, Bearings

SERIES LP 107



\*\* Type of Segmented Carbon Seals will be selected depending on the application, viscosity of fluid to be sealed.

## Segmented Ring Materials

Carbon-R, Carbon-M, CFT

### ADVANTAGES

- High reliability
- Long-term operation time
- Maintainability
- Segmented seal rings for easy replacement

### FEATURES

- Chamber seal (modular design, can be combined in any order), optional with housing and lid
- Multi-part seal rings, radially cut
- Very small operation gap, low leakage
- Dry running
- Self-adjusting seal rings
- Seal rings bear radial shaft movements
- No sealing components mounted on the shaft and hence no additional shaft vibrations
- Seal rings running contact-free, sliding faces and machine consume no additional power

## Operating Limits :

Shaft diameter d1 : 40 to 340mm  
 Pressure p : Vacuum.....20 bar (max)  
 Temperature t : Amb. ....200°C (max)

## RECOMMENDED APPLICATION

- Oil and gas industry
- Refining industry
- Chemical industry
- Petrochemical industry
- Pulp and paper industry
- Metal production and processing
- Power plant technology
- Gases
- Fumes and exhaust, solids containing, flammable (ATEX), acid containing and toxic gases
- (Solids containing) steams / liquid mist
- Oil mist / penetrating oil
- Water
- Integral-gear compressors (one or multi-stage)
- Screw and chiller compressors
- Steam turbines
- Regulating devices



SINCE 1967

*...together we achieve*

**EDR GROUP OF INDUSTRIES**



AN ISO 9001 : 2008 COMPANY



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