

# COMPRESSOR DATA SHEET - COMPRESSOR DETAILS

Customer:	<input type="text"/>	Contact Name:	<input type="text"/>
Industry <sup>1)</sup> :	<input type="text"/>	Plant code:	<input type="text"/>
Address:	<input type="text"/>	Telephone:	<input type="text"/>
Compl. By:	<input type="text"/>	Date:	<input type="text"/>

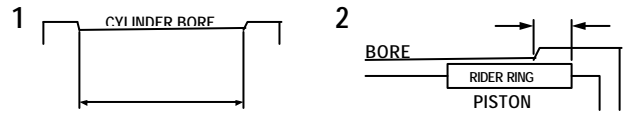
Make of Compressor:	<input type="text"/>	No of Compressors:	<input type="text"/>
Model:	<input type="text"/>	Serial No.:	<input type="text"/>
Gas Type:	<input type="text"/>	Please indicate Gas types if multi-service	If available, include gas analysis sheet

Speed [RPM]:	<input type="text"/>	Capacity [M <sup>3</sup> /hr / CFM]:	<input type="text"/>	Power [KW / HP]:	<input type="text"/>
Lubricated:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Frame type:	<input type="checkbox"/> Vert. <input type="checkbox"/> Horiz <input type="checkbox"/> Vee <input type="checkbox"/> Tandem <input type="checkbox"/> L shape <input type="checkbox"/> other _____		

STAGE									
No. of Cylinders:									
Double / Single acting:	[DA / SA]								
Stroke:	[mm / in]								
Gas Type:									
Gas Molecular weight:	( or SG)								
Cylinder Diameter:	[mm / in]								
Cylinder Cooling:	[water / air]								
Cyl liner material:									
Cyl chrome coated:	[Yes / No]								
Length of Cylinder liner between <b>1</b> counter bores (swept length) OR									
Amount of Rider ring over-run into <b>2</b> valve ports / counterbores at each end									
Piston rod diameter <sup>2)</sup> :	[mm / in]								
Piston rod material:									
Piston rod weight:	[Kg / Lb]								
Piston rod coating:									
Rod surface finish	μ [mm / in]								
Suction pressure <sup>3)</sup> :	[bar / psi]								
Suction Temp.	[°C / °F]								
Disch. pressure <sup>3)</sup> :	[bar / psi]								
Discharge Temp.	[°C / °F]								

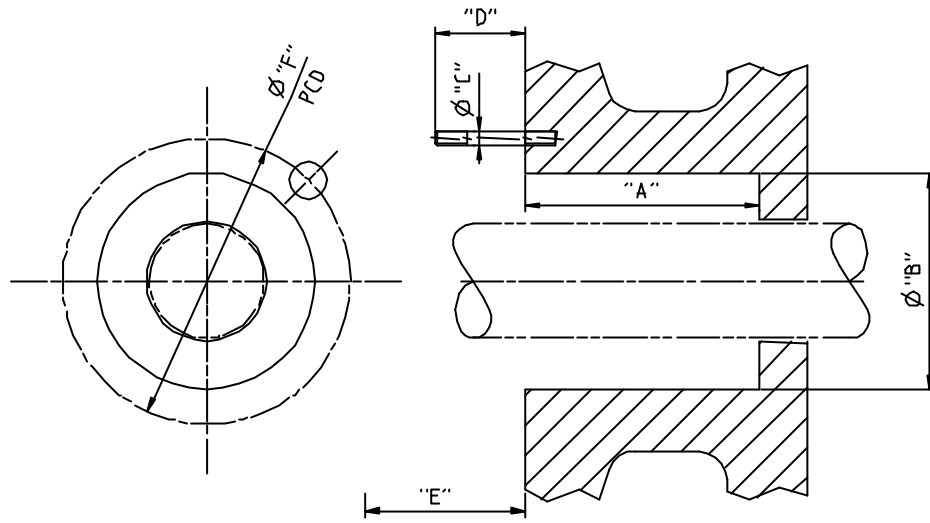
Other general information:  
History of operation, ring life, failures etc.

1) e.g. Refinery, Oil/Gas production, Ind. Gases, Cement plant, Fertiliser, Brewery, Sewage works, Power station, Sugar mill etc.  
 2) Critical dimension, required accuracy is +/- 0.025 mm  
 3) Pressures are in  gauge (ie barg / psig)  absolute (ie bar / psi)



# COMPRESSOR DATA SHEET - PACKING CASE DETAILS

## BOX BORE DETAILS

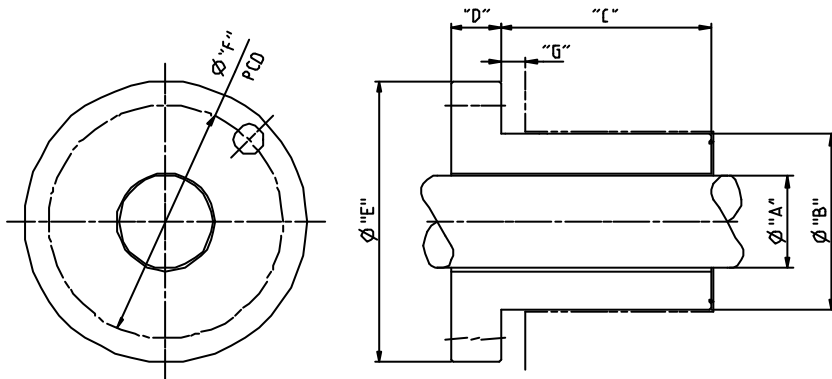


- A=  Stuffing box depth
- B=  Stuffing box bore
- C=  Number of studs
- $\phi$ =  Stud diameter  
Indicate top & position of first stud
- D=  Stud length
- E=  Clearance between face of pkg case and nearest obstruction
- F=  PCD of studs  
Indicate top and position of first stud hole

Please advise if there are any existing tappings into the stuffing box bore

Does the box bore have external cooling?  Yes  No

## PACKING CASE DETAILS



- A=  Rod diameter
- Rod surface finish
- B=  Case OD
- C=  Case length
- D=  Flange width
- E=  Flange diameter
- F=  PCD of stud holes
- Allowable flange stand-out

- Does the box bore have external cooling?  Yes  No

- Is the packing case cooled?  Yes  No

- Indicate the location of the Vent, Lube, Purge and Cooling and the flange drawing

- Indicate top and position of first stud hole

Type of packing case:  (Main, intermediate, Oil)

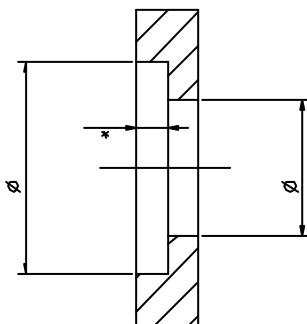
Packing case material:

Maker's P/N of packing case ?

### SERVICE TAPPING SIZES

- Vent  Type ?
- Vent  Type ?
- Purge  Type ?
- Coolant  Type ?

## CUP DETAILS



- Cylinder side of vent  NO. OF GROOVES
- Outside vent  NO. OF GROOVES
- Types of existing packing rings
- Makers P/N of existing packings

\* Critical information, required accuracy is +/- 0.025 mm (0.001")

# COMPRESSOR DATA SHEET - PACKING RING DETAILS

Rod Dia:

□ R21

□ R22

□ R14

□ R19

□ R38

□ R41

□ R64

□ R65

Rod Dia:

□ R16

□ R18

□ R23 / R28 <sup>1)</sup>

□ R24 / R25 / R27 <sup>1)</sup>

□ R26

□ R37

Rod Dia:

□ R17

□ R17D

Rod Dia:

□ R06

□ R10

□ R62

□ R87

Rod Dia:

□ R50

□ R56

□ R57

□ R58

Seal Type	Qty	Sealing rings Materials:	Backup rings Materials:

\* Critical dimension, required accuracy is +/- 0.025mm

\*\* Largest measured radial ring thickness over spring

<sup>1)</sup> This P/N with a solid backup ring

Dimensions in □ mm □ in

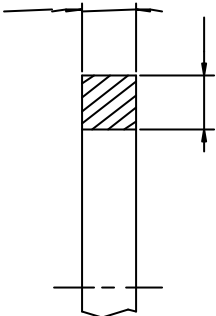
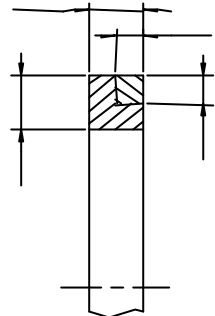
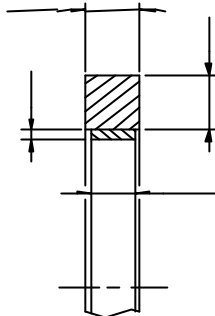
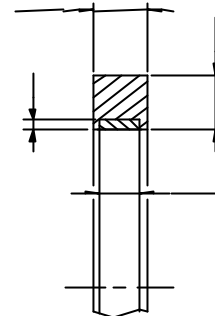
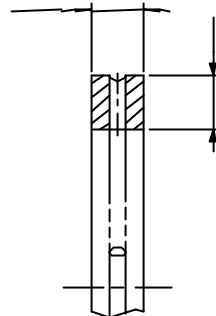
# COMPRESSOR DATA SHEET - P/R & R/R DETAILS

Cylinder dia.  Note – this is a critical dimension, accuracy required is +/- 0.025 mm

No. of Piston rings:  (per piston) Material:

<input type="checkbox"/> Without expander	<input type="checkbox"/> Twin ring	<input type="checkbox"/> With expander	<input type="checkbox"/> Recessed expander	<input type="checkbox"/> Pressure balanced
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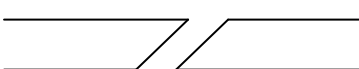

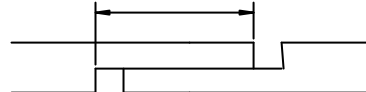
  

				
# of segments per ring <input type="text"/>	# of segments per ring <input type="text"/>	# of segments per ring <input type="text"/>	# of segments per ring <input type="text"/>	# of segments per ring <input type="text"/>

<input type="checkbox"/> Angle cut (HRPA std = 45°)	<input type="checkbox"/> Straight cut	<input type="checkbox"/> Step cut
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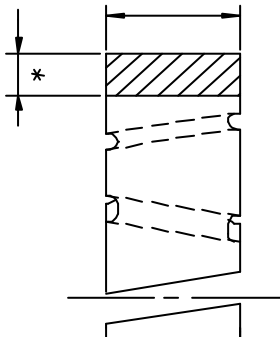
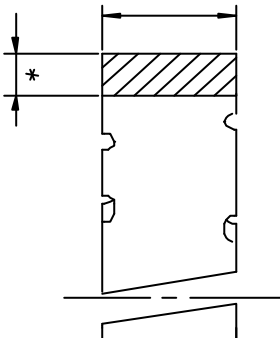
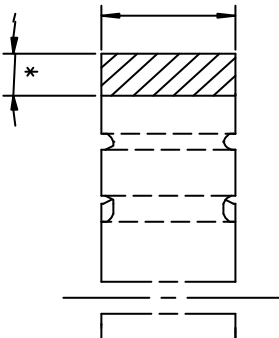
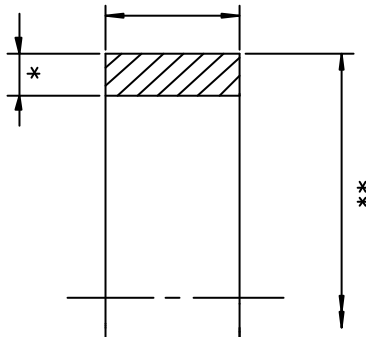
  

		
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No. of Rider rings:  (per piston) Material:

<input type="checkbox"/> Angle cut <sup>1)</sup> & pressure relieved, OD & edges	<input type="checkbox"/> Angle cut <sup>1)</sup> & pressure relieved, edges only	<input type="checkbox"/> 2 pieces (halves) & pressure relieved (as shown)	<input type="checkbox"/> Uncut / solid
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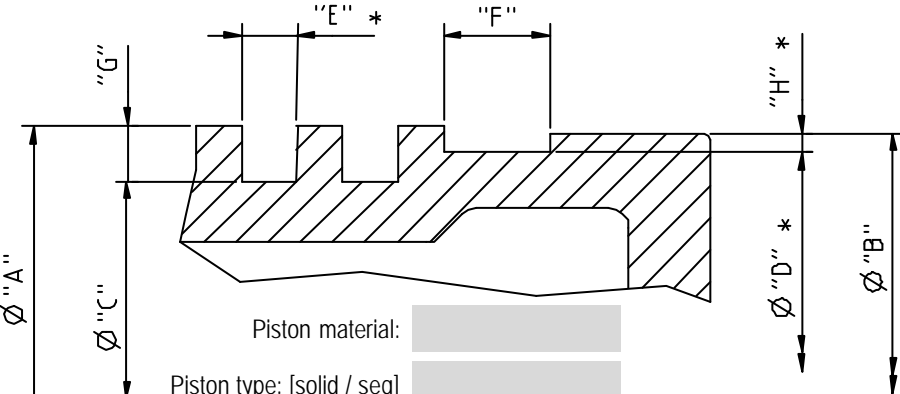
  

			
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\* Critical dimension, required accuracy is +/- 0.025 mm

\*\* Critical dimension, required accuracy is +/- 0.025 mm

## PISTON DETAILS



A=	<input type="text"/>	Piston OD
B=	<input type="text"/>	Slip over Ø
C=	<input type="text"/>	Piston ring groove Ø
D=	<input type="text"/>	Rider ring groove Ø
E=	<input type="text"/>	Piston ring AGW
F=	<input type="text"/>	Rider ring AGW
G=	<input type="text"/>	Piston ring groove depth
H=	<input type="text"/>	Rider ring groove depth

Piston material:

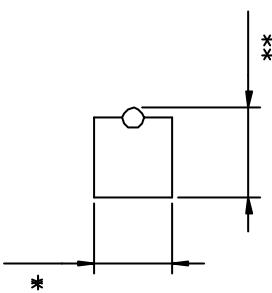
Piston type: [solid / seg]


Piston weight: [Kg / Lb]

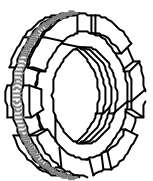
\* LEAH standard for rider rings = 10°

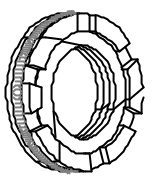
# COMPRESSOR DATA SHEET - SCRAPER RING DETAILS

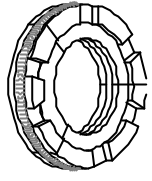
Rod Dia:

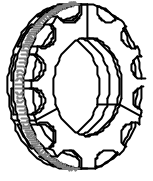


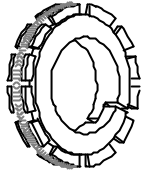
W41  


W42  


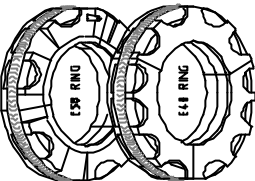
W43  


W44  


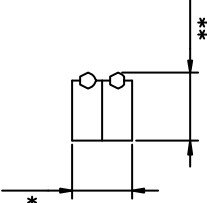
W48  


W49  


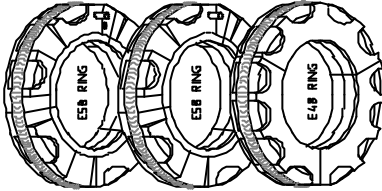
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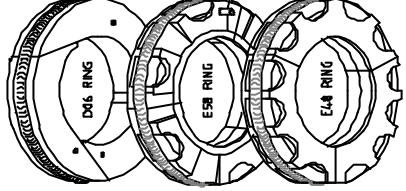
W46  


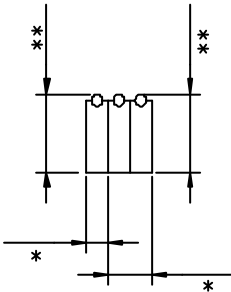
OTHER (Please provide sketch)



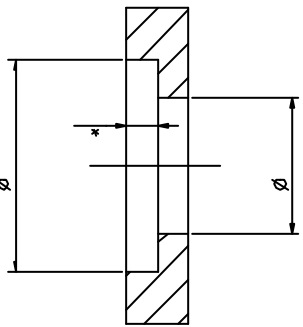
Rod Dia:

W45  


W47  




### CUP DETAILS



Number of grooves

Types of existing Oil scraper rings

Types of existing pulsation rings  
eg. D12, D16, D17 (refer to packing ring data sheet)

Makers P/N of existing rings

Type	Qty	Oil scraper rings	Pulsation seals
		Materials:	Materials:

\* Critical dimension, required accuracy is +/- 0.025 mm

\*\* Critical dimension, required accuracy is +/- 0.10 mm

Dimensions in  mm  in