

Sr#	Description	Material	Qty
1	<u>Metal O-Ring:</u> Outside Diameter = 21.6 mm, made of Stainless Steel tube having(1.85 mm) cross section	<p style="text-align: center;">Stainless Steel as per attached specification No. DNT003-SS001-TS-01/301 (Rev. 1)(Annexure- C) (Sketches are attached at Annexure-D)</p>	11
2	<u>Metal O-Ring:</u> Outside Diameter = 42.4 mm, made of Stainless Steel tube having (2.2 mm) cross section		11
3	<u>Metal O-Ring:</u> Outside Diameter = 59.3 mm, made of Stainless Steel tube having (3 mm) cross section		11

Notes:

Main Specifications for above mentioned O-rings are as following:

- a. Material of construction = Stainless steel
- b. Type of Seal: Helium Sealing (Pressure: Vacuum to 15 Psi), HN 200 (Spring Energized type), Jacketed with inner Lining
- c. Working Temperature : Cryogenic to 700°F (371 °C)
- d. **For further details please see attached Annexure "C"**
- e. Manufacturer/Brand : Garlock Helicoflex or Equivalent
- f. Manufacturer certificate showing technical compliance to required specification have to be provided.
- g. Please also submit duly filled check list at Annexure B, along with quotation.

Annexure-B

Check List

- | | | |
|--|-----|----|
| 1- All the technical details i.e Sealing parameters, required dimensions and load characteristics given in applicable specification no. DNT003-SS001-TS-01/ 301 (Annex.of tender documents) have been carefully read and understood. | Yes | No |
| 2- Manufacturer certificate showing technical compliance to required specification will be provided. | Yes | No |
| 3- Manufacturer's name/ brand and identification should be marked / tagged with O rings and these should be traceable to relevant Certificate. | Yes | No |
| 4- In case of offer of equivalent brand, it is certified that Offered O rings are technically equivalent to required brand. | Yes | No |
| 5- Type of Seal is Helium Sealing (Pressure: Vacuum to 15 Psi) | Yes | No |
| 6- Offered O -rings are suitable for working temperatures of Cryogenic to 700 ⁰ F (371 Centigrade) | Yes | No |
| 7- Offer/ quotation does not contain condition or requirement of " End user certificate" to be provided by the buyer. | Yes | No |

Note:

Please submit check list along with your quotation, after encircling either "Yes" or "No"

Signature / Stamp of Supplier



Product: Helicoflex Metal O-ring or Equiv.

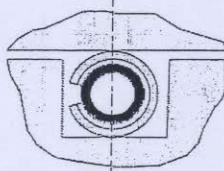
O-ring Material: Stainless Steel – Temperature: Cryogenic to 700°F (371°C)

Type of Seal: Helium Sealing (Pressure: Vacuum to 15 Psi)

HN 200 (Spring Energized type)

Jacket with inner Lining, Orientation as shown below

TYPICAL CONFIGURATIONS



HN200
Groove Assembly

HN	2	0	0
Cross-section Type	# Jackets/ Lining	Jacket Orientation	Section Orientation

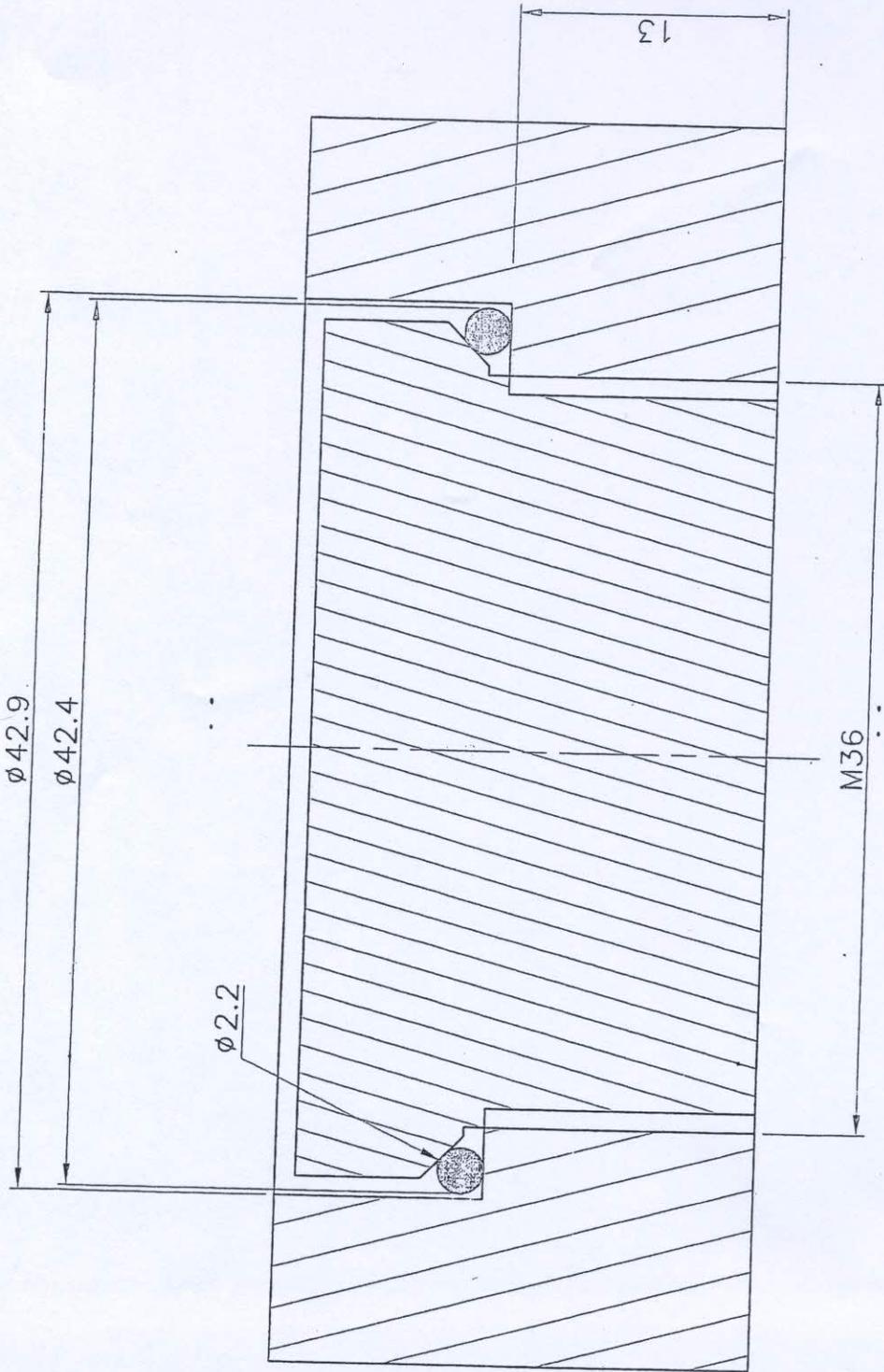
O-ring Sizes:

S. #	Outside Diameter	Cross section Diameter	Qty. Required
1.	OD 21.6 mm	1.85 mm	6 Nos.
2.	OD 42.4 mm	2.2 mm (0.087 in)	6 Nos.
3.	OD 59.3 mm	3 mm (0.118 in)	6 Nos.

Code Calculated Loads:

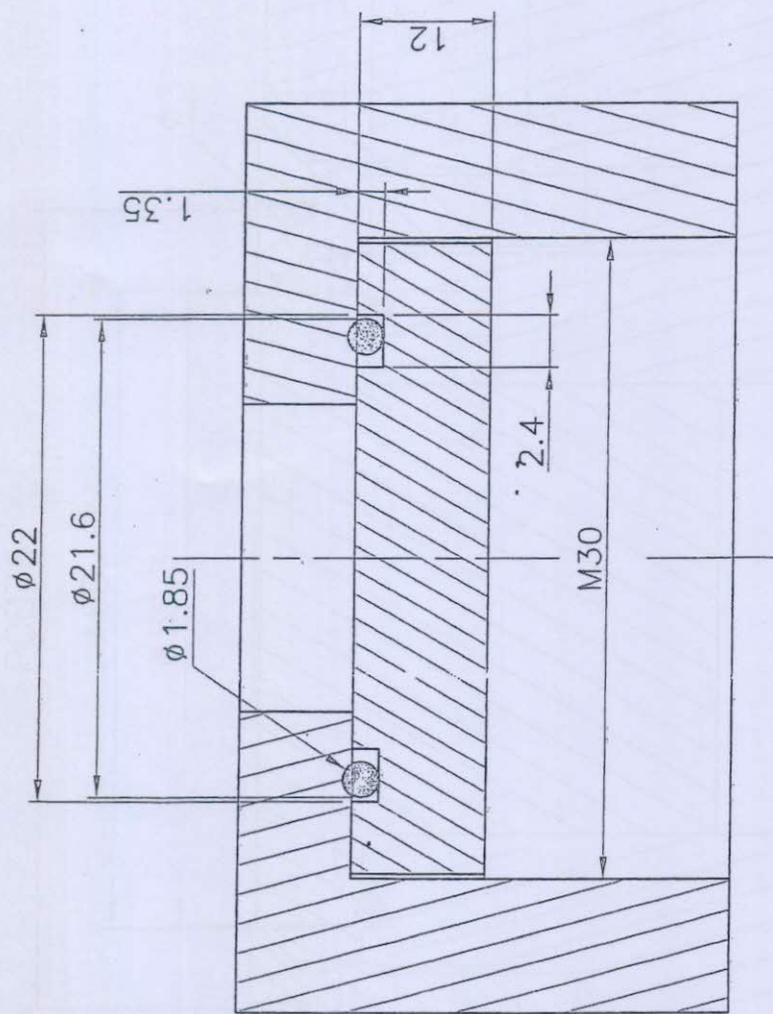
S. #	O-ring Cross section Diameter	Operating Load	Hydrostatic Force	Min. Service Load	Min. Tightening Load to apply on Bolt
1.	1.85 mm	5339 lbs	8.5 lbs	22.1 lbs	30.6 lbs
2.	2.2 mm	13485 lbs	32.86 lbs	48 lbs	80.871 lbs
3.	3 mm	24034 lbs	64 lbs	70 lbs	134 lbs

ANNEXURE - D (1/3)



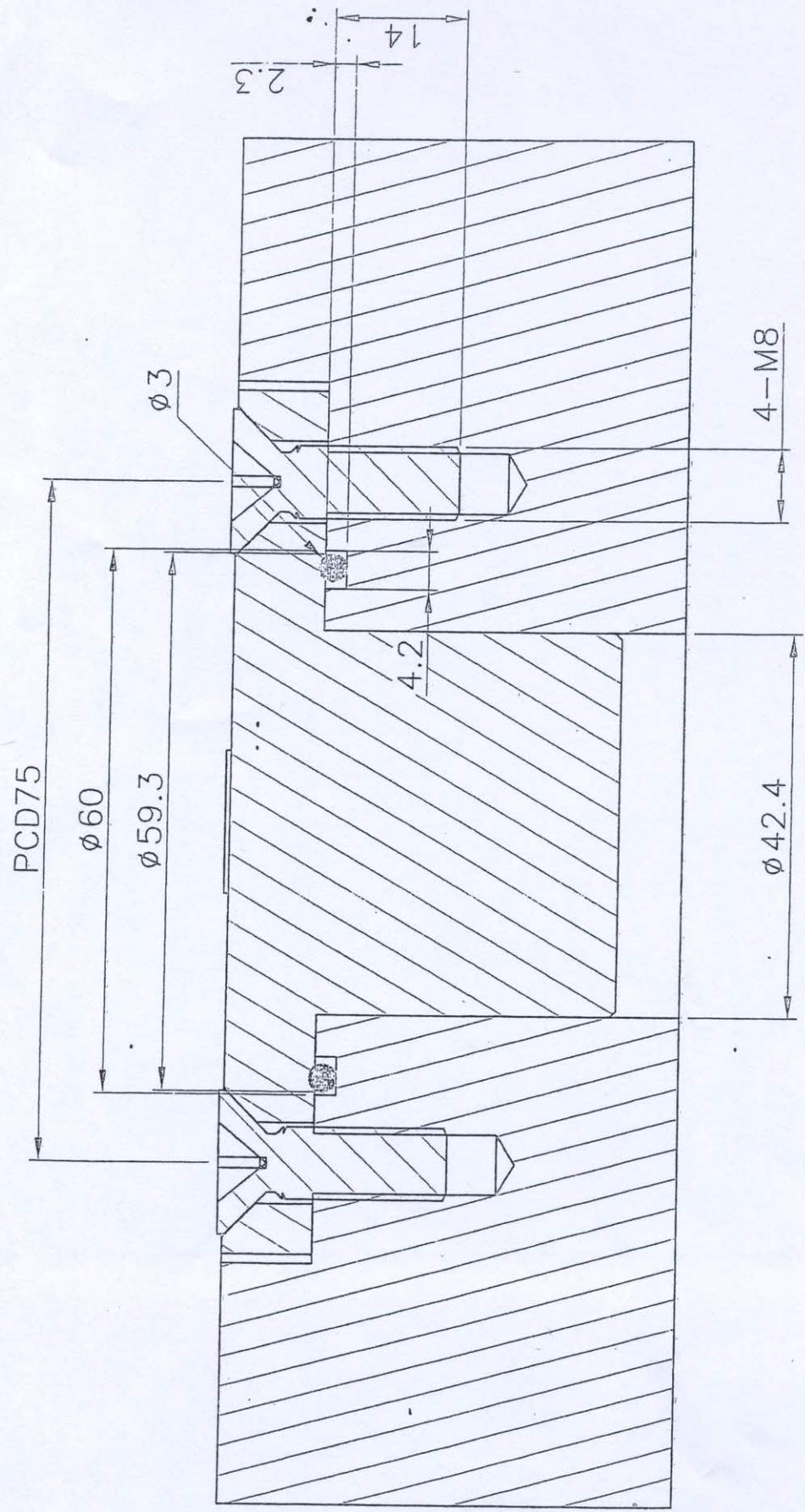
NOTES:

1. Load refer to annexure C,



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