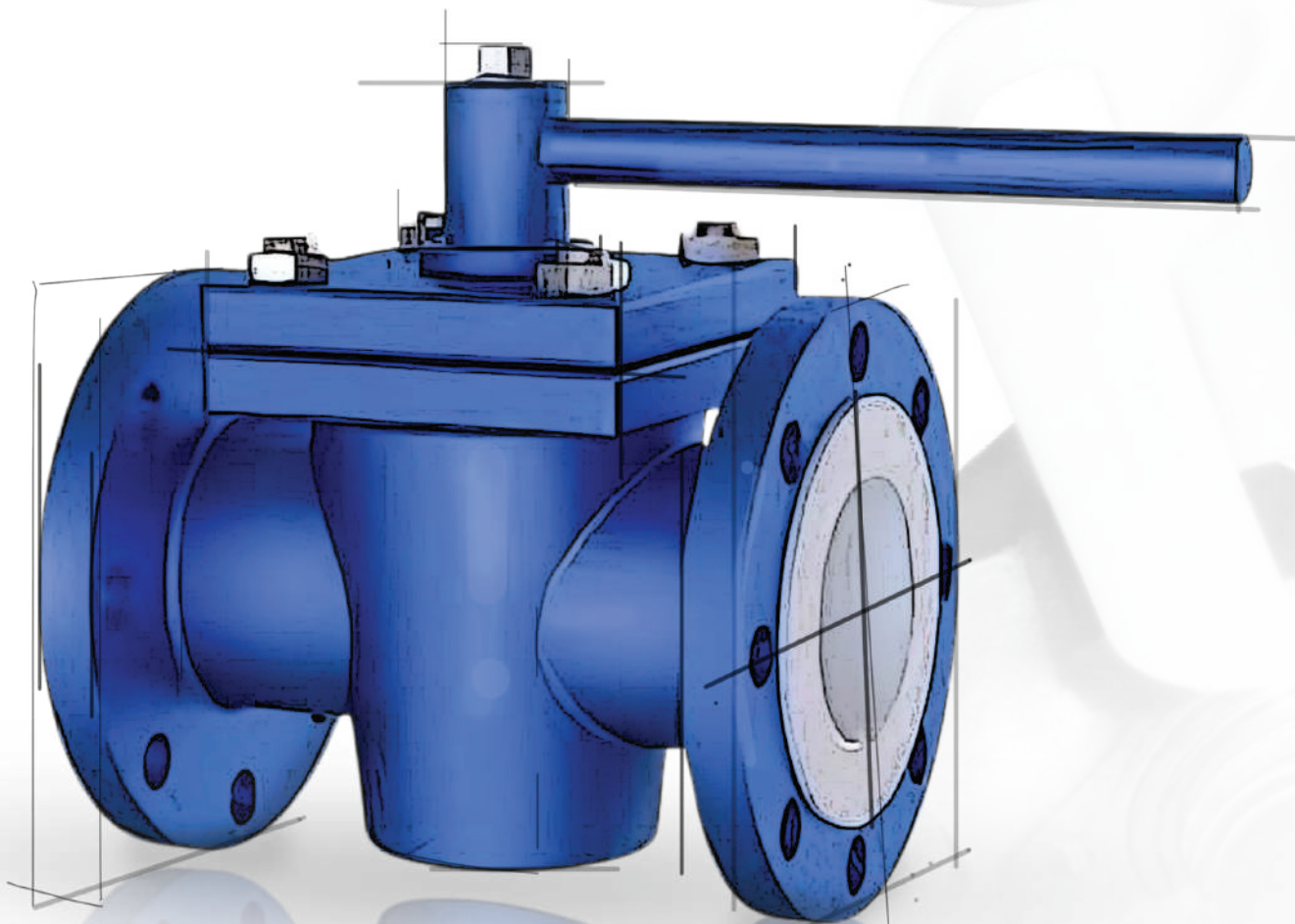


FRETURE

EMISSION FREE PROCESS

PROCESS AUTOMATION & CONTROL



INNOVATION FOR SUSTAINABILITY

PLUG VALVE

www.freture.com

ISO 9001 - 15000 | ISO 14000 | ISO 45001 | PED 2014 / 68 / EU

VISION

Our vision is clear to provide precision products and services that enhance and strengthen relationships with our clients. We aspire to be the leading provider of valve solutions, renowned for our unwavering commitment to quality, reliability, and customer satisfaction.

Our vision is not just about delivering products, it's about fostering trust, reliability, and mutual growth in every interaction.

MISSION

At Freture Techno, our mission is to serve our precision products and services on a global scale, supporting industries in maintaining their critical flow processes. We are dedicated to providing innovative valve solutions that optimize efficiency and sustainability for our customers worldwide.

We ensure that every client, regardless of location or industry, can count on Freture Techno to deliver the products and support they need to thrive.

FRETURE

EMISSION FREE PROCESS

CERTIFICATE

CERTIFICATE

FRETURE TECHNO PVT. LTD.

ADDRESS: ALPAK COMPOUND, MILIND NAGAR, BHANDUP(W),
MUMBAI - 400078, MAHARASHTRA, INDIA

QACS certify that the quality management system of the above organization has been Audited and found to be in accordance with the requirements of standard detailed below

ISO 9001:2015

For The Following Scope
DESIGN, MANUFACTURING & SUPPLY INDUSTRIAL VALVE, FITTINGS, PIPE TUBE,
RAW MATERIAL & OTHER INDUSTRIAL PRODUCTS & ENGINEERING SERVICES

Certificate No:- QAIS-Q-IND-FT-01.24.027
EA Code: 17 & 18

*This certificate is issued in accordance with the QACS International Pvt. Ltd. auditing and Certification procedures and it remains valid subject to annual surveillance audit.

Certificate Issue Date : 13.03.2024 1st surveillance Date : 12.03.2025
Date of Initial Registration : 13.03.2024 2nd surveillance Date : 12.03.2026
Certificate Validity : 03 Years "Certificate Expiry Date : 12.03.2027

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

QACS International Pvt. Ltd.
101, Eastern Express, 42/2 Western,
Mumbai - 400078, India
Email: info@qacsindia.com
To view the certificate validity please
visit: www.qacsindia.com &
www.iso9001.org

QACS Accredited By
International Accreditation Service (IAS)
4800 Green Street, Suite 100, San Jose,
California 95128, USA
United States Of America (USA)
Website: www.ias.org

Authorized Signatory

Disclaimer - This certificate is issued on the basis of random onsite inspection as per the standard mentioned. This Certificate does not involve any financial auditing. This certificate cannot be used as justification for saving any type of asset or expense. QACS will not be responsible if someone give disapproval based on this System/Product certification mentioning any disapproval/expense audit.

CERTIFICATE

FRETURE TECHNO PVT. LTD.

ADDRESS: ALPAK COMPOUND, MILIND NAGAR, BHANDUP(W),
MUMBAI - 400078, MAHARASHTRA, INDIA

QACS certify that the environmental management system of the above organization has been Audited and found to be in accordance with the requirements of standard detailed below

ISO 14001:2015

For The Following Scope
DESIGN, MANUFACTURING & SUPPLY INDUSTRIAL VALVE, FITTINGS, PIPE TUBE,
RAW MATERIAL & OTHER INDUSTRIAL PRODUCTS & ENGINEERING SERVICES

Certificate No:- QAIS-E-IND-FT-01.24.012
EA Code: 17 & 18

*This certificate is issued in accordance with the QACS International Pvt. Ltd. auditing and Certification procedures and it remains valid subject to annual surveillance audit.

Certificate Issue Date : 13.03.2024 1st surveillance Date : 12.03.2025
Date of Initial Registration : 13.03.2024 2nd surveillance Date : 12.03.2026
Certificate Validity : 03 Years "Certificate Expiry Date : 12.03.2027

Note: Certificate shall be valid after surveillance, only if continuation letter by QACS is present.

QACS International Pvt. Ltd.
101, Eastern Express, 42/2 Western,
Mumbai - 400078, India
Email: info@qacsindia.com
To view the certificate validity please
visit: www.qacsindia.com &
www.iso14001.org

QACS Accredited By
International Accreditation Service (IAS)
4800 Green Street, Suite 100, San Jose,
California 95128, USA
United States Of America (USA)
Website: www.ias.org

Authorized Signatory

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CERTIFICATE

FRETURE TECHNO PVT. LTD.

ADDRESS: ALPAK COMPOUND, MILIND NAGAR, BHANDUP(W),
MUMBAI - 400078, MAHARASHTRA, INDIA

QACS certify that the occupational health & safety management system of the above organization has been audited and found to be in accordance with the requirements of standard detailed below

ISO 45001:2018

For The Following Scope
DESIGN, MANUFACTURING & SUPPLY INDUSTRIAL VALVE, FITTINGS, PIPE TUBE,
RAW MATERIAL & OTHER INDUSTRIAL PRODUCTS & ENGINEERING SERVICES

Certificate No:- QAIS-OH-IND-FT-01.24.011
EA Code: 17 & 18

*This certificate is issued in accordance with the QACS International Pvt. Ltd. auditing and Certification procedures and it remains valid subject to annual surveillance audit.

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QACS International Pvt. Ltd.
101, Eastern Express, 42/2 Western,
Mumbai - 400078, India
Email: info@qacsindia.com
To view the certificate validity please
visit: www.qacsindia.com &
www.iso45001.org

QACS Accredited By
International Accreditation Service (IAS)
4800 Green Street, Suite 100, San Jose,
California 95128, USA
United States Of America (USA)
Website: www.ias.org

Authorized Signatory

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Certificate

**Quality-Assurance System
for Manufacturer of Materials
acc. to Directive 2014/68/EU**

Certificate no.: 01 2627 IN/M1-230014.00

Name and address
of the manufacturer: Freture Techno Pvt Ltd,
St. Stephen Tamil Church, Alpak Compound,
Gaon Devi Road, Milind Nagar,
Bhandup (W) Mumbai - 400078
India

Tested acc. to:
Directive 2014/68/EU:

Assessment report no.: IN/M1-230014 Rev. 0

Area of validity: Manufacture of Flanges, Forged Fittings and Pipe
Fittings in Stainless Steel, Alloy Steel & Carbon Steel,
see Annex to certificate

Manufacturing plant: Freture Techno Pvt Ltd,
St. Stephen Tamil Church, Alpak Compound,
Gaon Devi Road, Milind Nagar,
Bhandup (W) Mumbai - 400078
India

Period of validity: 07.06.2023 - 06.06.2026

Zabrze, 07.06.2023 Wojciech Szalek

TÜV Rheinland Polska Sp. z o.o.
Certification Body for Material Manufacturers
ul. Wolności 147, 41-802 Zabrze, Poland
e-mail: pnc@tuev.com

TÜV Rheinland
Precisely Right.

PLUG VALVE

Cost-Effective and Versatile:

Freture's sleeved plug valves are engineered to optimize your fluid handling systems with bi-directional flow, simple actuation, and compact design. These features, along with multiport configurations, allow for more economical and flexible system designs.

Zero Cold Flow:

The PTFE sleeve is securely positioned within the valve body, supported by high-pressure ribs and 360° port lips. This design prevents sleeve movement, ensuring consistent sealing and no risk of cold flow, deformation, or rotation.

Self-Cleaning Action:

As the plug rotates, the 360° port lips facilitate a self-cleaning mechanism that removes any scaling or adhering media, ensuring smooth operation without seizing or sticking.

High Pressure sealing

Sleeve relief area

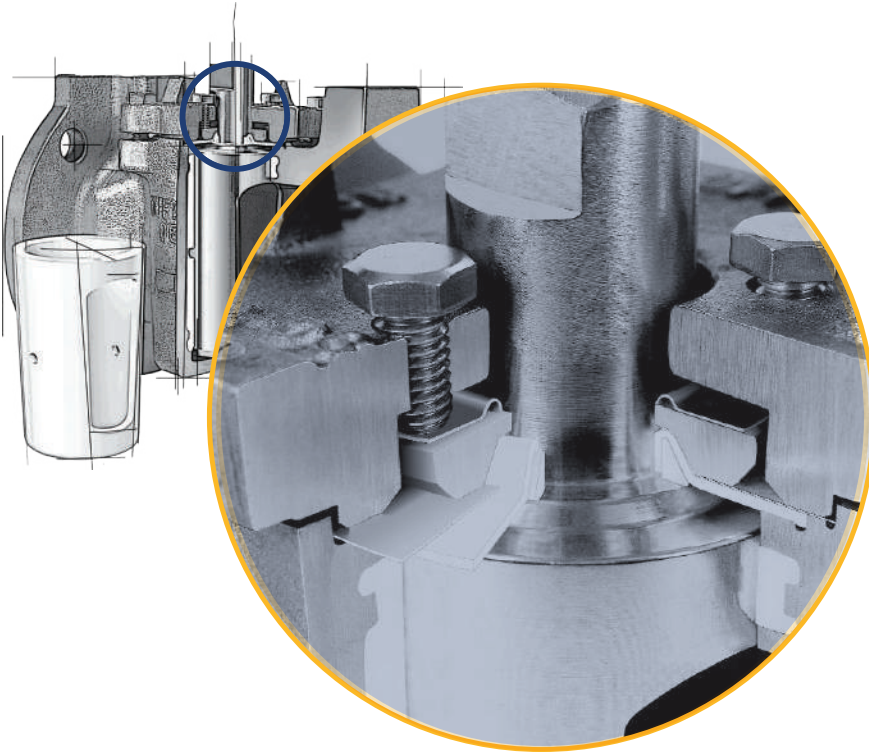
Superior Sealing:

The inert PTFE sleeve in our valves ensures complete encapsulation of the plug, providing a robust, circumferential sealing surface from port to port. Whether in open, closed, or rotating positions, our valves guarantee a reliable seal that surpasses traditional ball or gate valves.

Retention Sleeve

360° Lips

Advanced Stem Sealing Technology



Innovative Port Lips:

Our standard dual stem seal outperforms those found in ball, gate, and other plug valves. The primary seal ensures that flow media does not reach the stem, while the secondary backup seal offers comprehensive protection along the top edge of the plug and stem

Unmatched Dual Stem Seal:

The 360° port lips, a patented feature, enhance valve performance and longevity by preventing sleeve cold flow and deformation, eliminating sleeve rotation, and breaking up adhering deposits during plug rotation.

Eliminate Downtime and Minimize Maintenance Costs

Maximized Uptime:

Freture Techno's valves are designed to reduce unscheduled downtime and maintenance, offering greatly extended service life compared to conventional ball and gate valves. A simple adjustment of the top bolts ensures a tight seal and continued operation without interruption.

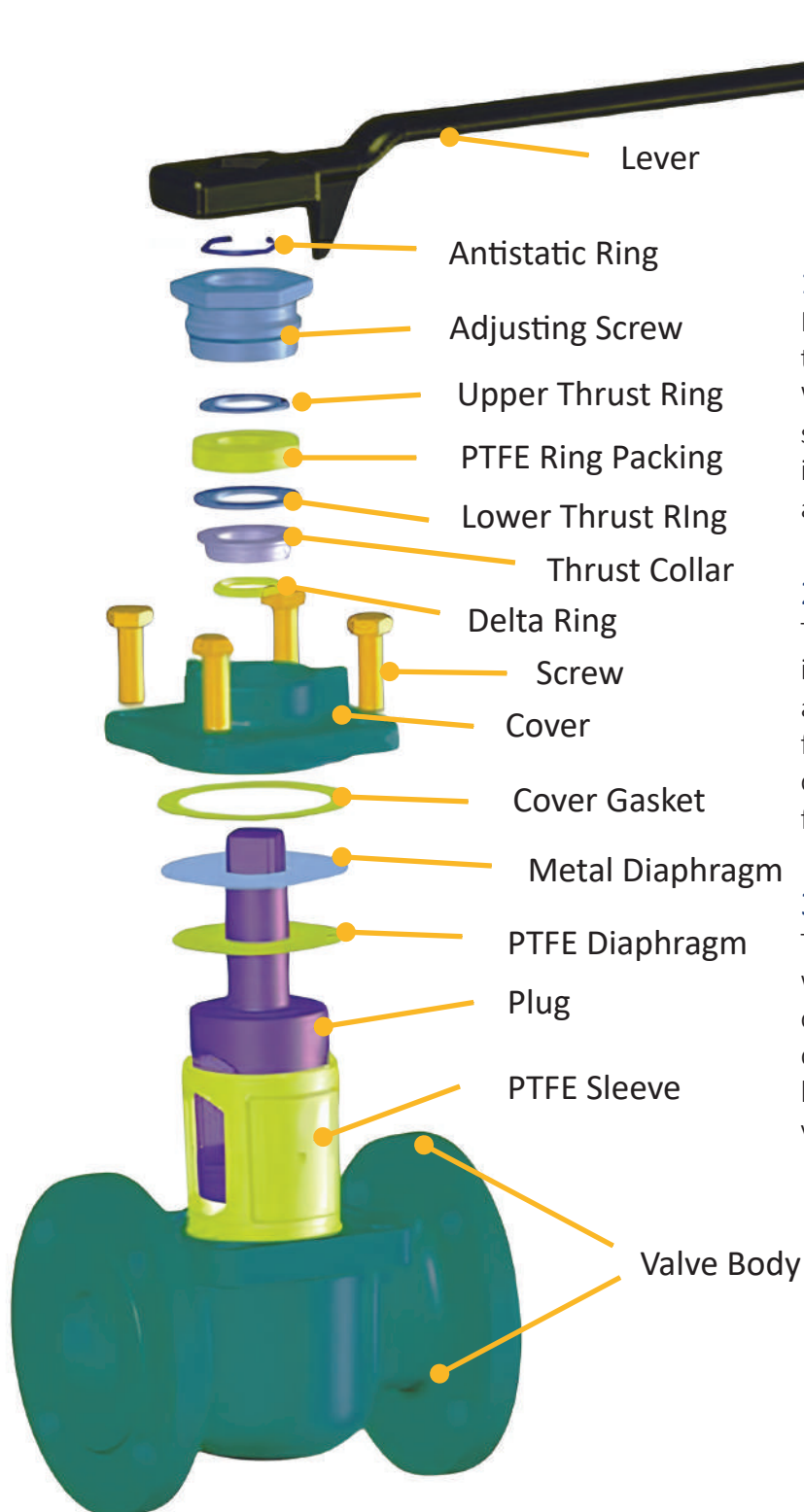
Dual Sealing Systems for Enhanced Protection:

Our valves feature two independent sealing systems that offer double protection against atmospheric leakage. The primary seal around the plug prevents flow media from reaching the stem, while the secondary seal provides an additional layer of protection.

Ease of Operation:

The PTFE sleeve's low friction coefficient acts as a lubricant, ensuring smooth operation even after extended periods in the open or closed positions. This translates to lower long-term costs and reliable performance.

Plug Valve Assembly Diagram



1. Lever and Seal Installation:

Freture's plug valve assembly begins by securing the lever to the plug, enabling precise flow control. We then install an antistatic ring to safely manage static electricity, followed by threading the adjusting screw to fine-tune the pressure on our advanced PTFE sleeve for a reliable seal.

2. Enhancing Pressure Distribution:

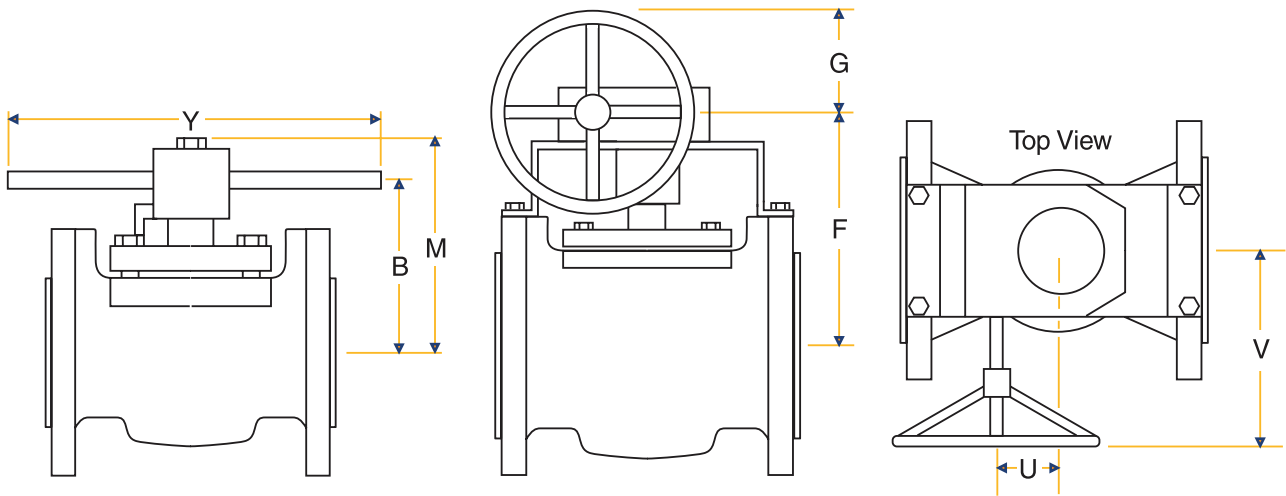
The upper thrust ring and PTFE ring packing are installed to ensure even pressure distribution around the stem. A lower thrust ring is added for further support, while the delta ring and thrust collar enhances the seal integrity and provide friction reduction, for smooth plug rotation.

3. Final Assembly For Leak Protection:

To complete the assembly, we secure the cover with precision screws, ensuring a tight seal with a cover gasket. Inside, a metal diaphragm and PTFE diaphragm provide extra protection. The plug, housed in the PTFE sleeve, is then placed within the valve body, forming a robust, leak-proof valve.

Class 300 - Flange End 2 way & 3 Way

| Size | L | H | D | T | P | R | N | O | C | S | J | K | E | Z | CX | G |
|-------|-------|-------|------|-------|-------|-----|--------|------|------|------|-----|-------|------|-------|-------|-----|
| 5.50 | 1.92 | 3.75 | .56 | 1.38 | 1.88 | .63 | 2.63 | .250 | .50 | .66 | - | 6.00 | 1.09 | 6 | 2.88 | 8 |
| 6.00 | 1.92 | 4.63 | .63 | 1.69 | 2.31 | .75 | 3.25 | .250 | .50 | .66 | - | 6.00 | 1.09 | 9 | 3.00 | 12 |
| 6.50 | 2.50 | 4.88 | .69 | 2.00 | 2.44 | .75 | 3.50 | .438 | .63 | .32 | .53 | 7.00 | 1.38 | 11 | 3.75 | 15 |
| 7.50 | 3.06 | 6.13 | .81 | 2.88 | 3.06 | .88 | 4.50 | .563 | .88 | .44 | .59 | 8.00 | 1.56 | 21 | 4.38 | 29 |
| 8.50 | 3.56 | 6.50 | .88 | 3.63 | 3.25 | .75 | 5.00 | .750 | 1.13 | .53 | .78 | 9.13 | 2.00 | 28 | 4.75 | 37 |
| 11.13 | 4.13 | 8.25 | 1.1 | 4.13 | 4.13 | .88 | 5.88 | .750 | 1.13 | .53 | .78 | 10.13 | 2.00 | 38 | 5.56 | 53 |
| 11.13 | 4.13 | 8.25 | 1.1 | 5.00 | 4.13 | .88 | 6.63 | .750 | 1.13 | .53 | .78 | 10.13 | 2.00 | 38 | 5.56 | 53 |
| 12.00 | 5.22 | 10.00 | 1.2 | 6.19 | 5.13 | .88 | 7.88 | .875 | 1.25 | .78 | .90 | 22.00 | 2.50 | 80 | 6.75 | 105 |
| 15.88 | 7.35 | 12.50 | 1.4 | 8.50 | 6.25 | .88 | 10.63 | 1.39 | 2.00 | 1.00 | - | 25.00 | 3.06 | 165 | 8.50 | 207 |
| 16.50 | 9.32 | 15.00 | 1.6 | 10.63 | 7.50 | 1.0 | 13.00 | 1.39 | 2.00 | 1.00 | - | 28.00 | 4.12 | 267 | 10.00 | 334 |
| 18.00 | 10.81 | 17.50 | 1.8 | 12.75 | 8.75 | 1.1 | 15.25 | 1.67 | 2.50 | 1.00 | - | 29.00 | 4.50 | 395 | 12.00 | 47 |
| 19.75 | 11.81 | 20.50 | 2.0 | 15.00 | 10.25 | 1.2 | 17.75 | 1.96 | 3.00 | 1.00 | - | 35.00 | 5.31 | 540 | N/A | 0 |
| 30.00 | 14.96 | 23.00 | 2.1 | 16.25 | 11.50 | 1.2 | 20.25 | 2.0 | 3.93 | 1.57 | - | N/A | N/A | 925 | N/A | - |
| 33.00 | 14.96 | 25.50 | 2.2 | 18.50 | 12.75 | - | 22.50 | 2.0 | | 1.57 | - | N/A | N/A | 1,005 | N/A | - |
| 36.00 | 14.96 | 28.00 | 2.3 | 21.00 | 14.00 | - | 24.75 | 2.0 | | 1.57 | - | N/A | N/A | 1,200 | N/A | - |
| 39.00 | 20.48 | 32.00 | 2.50 | 23.00 | 16.13 | - | 27.005 | 4.0 | | 2.00 | - | N/A | N/A | 2,500 | N/A | - |



High Pressure Sealing: Designed to handle high-pressure applications with secure sleeve containment.

Cavity-Free Design: No body cavities to trap flow media, preventing contamination and sticking, ensuring a clean and efficient operation.

Wrench

| Size | M | B | Y |
|-------|------|------|-------|
| 1/2 | - | 4.00 | 6.38 |
| 3/4 | - | 4.00 | 6.38 |
| 1 | 3.81 | 2.88 | 8.75 |
| 1 | 4.56 | 3.63 | 12.50 |
| 2 | 5.13 | 4.00 | 18.00 |
| 2 | 5.69 | 4.63 | 24.00 |
| 3 1/2 | 5.69 | 4.63 | 24.00 |
| 4 | 7.06 | 5.75 | 30.00 |

Gear

| Size | F | G | U | V |
|------|-------|-------|-------|-------|
| 4 | 8.75 | 6.00 | 2.06 | 8.00 |
| 6 | 11.50 | 9.00 | 2.62 | 10.38 |
| 8 | 13.50 | 9.00 | 2.62 | 10.38 |
| 10 | 15.25 | 12.00 | 3.53 | 12.31 |
| 12 | 16.25 | 15.00 | 4.88 | 15.88 |
| 14 | 21.66 | 15.00 | 5.38 | 16.90 |
| 16 | 21.66 | 12.00 | 5.12 | 17.66 |
| 18 | 21.66 | 12.00 | 5.12 | 17.66 |
| 20 | 32.92 | 15.75 | 16.97 | 24.00 |
| 24 | 32.92 | 15.75 | 16.97 | 24.00 |

FRETURE

EMISSION FREE PROCESS

CLIENTELE



FRETURE TECHNO PVT. LTD.



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Bhandup (W) Mumbai 400 078



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sales@freture.com