PRAMA
Instruments Pvt. Ltd.
PRODUCT & PEOPLE YOU TRUST

PRODUCT CATALOGUE

CERTIFIED ISO 9001:2015 COMPANY

Since 1990

PRAMA
Instruments Pvt. Ltd.

ABOUT US

PRAMA is an ISO 9001:2015 certified multi-disciplinary company having an enriched experience of 30 years in the field of **analytical laboratory requirements** with industries like Pharmaceutical, Chemical, Food, Fragrances, Forensic, Environment monitoring, Oil & Gas industries, etc.

It is one of the pioneers in Manufacturing and Turnkey solutions for **Gas Management Systems** & **Analytical Laboratory Instruments** with a strong team built in Sales, Projects, Service & Support

Our entire range of product is designed and engineered as per the latest technological advancement and clients' specifications. These products are widely acclaimed in the market by prestigious customers, for their quality features like trouble free operations, easy maintenance and long life.

Our product range is available in both standardized as well as customized dimensions because at Prama, we shape ideas with custom built designs.

Our Principles:

TKF TK-FUJIKIN CORPORATION

THOMAS An Ingersoll Rand Business

Keyto 星拓

R-80, TTC Industrial Area, MIDC, Rabale, Navi Mumbai -400701, Maharashtra, India
Tel. No: +91 9137527819 | Email: info@pramagroup.com

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GAS PURIFICATION SYSTEM



Gas Purification System is required for purifying gases such as Nitrogen, Hydrogen, Air, Helium, Oxygen, Argon by removing moisture, hydrocarbon & oxygen. The gases are used for Chromatography Instruments like GC, GC-MS, HPLC with ELSD Detector, ICP, AAS, LCMS, DSC, TGA, TOC, FTIR, NMR in Quality Control and Research and Development Laboratory.

The Gas Purification System is available for the following two applications:

1. Low Gas Flow application where complete internal tubing in the Gas Purification System is of 1/8" SS.
2. High Gas Flow application where complete internal tubing in the Gas Purification System is of 1/4" SS.

The various parts of the gas purification system are:

- Main MS body
- Moisture Trap
- Hydrocarbon Trap
- Oxytrap
- Pressure gauges
- Toggle valve
- Pressure regulator
- Internal SS tubing of 1/8" or 1/4"





High-Flow and Low-Flow Gas Control Box

Main Body: MS powder coated
Internal Tubing: 1/4" or 1/8" Stainless Steel
Other Parts: Toggle Valve, Regulator & Pressure Gauge

Applications: For LCMS and other high flow requirement. For GC, GC-MS, HPLC-ELSD, ICP, AAS, TOC



Gas Selector Box

Main Body: MS powder coated
Internal Tubing: 1/8" Stainless Steel
Other Parts: 2-Way Selector Valve, Toggle Valve, Regulator & Pressure Gauge

Applications: It can be used for selecting carrier gas for GC or may be for selecting gas from gas generator or from gas cylinder.

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CYLINDER REGULATOR



- Main Body: Brass Chrome Plated, Stainless Steel, Monel
- Pressure gauges: Wika (Germany)
- Safety valve: In-built
- Diaphragm: Stainless Steel
- Inlet Pressure (max.): 4000 psi
- Outlet Pressure: As per the application requirement

Application: Low and High-pressure applications for all types of gases like N2, H2, He, Air, Acetylene, Nitrous Oxide, CO2, O2, Ammonia, Argon, LPG, HCL

AUTO GAS CHANGEOVER SYSTEM

Features	High-Pressure System	Low-Pressure System
Mounting Plate	MS Powder Coated Or SS316	MS Powder Coated Or SS316
Pressure Gauge	WIKA OR WAAREE	WIKA OR WAAREE
No. of Cylinders	Channel A: >1 | Channel B: >1	-
Optional	Remote 3-Level Alarm System	-
Gases	N2, H2, AIR, He, O2, CO2, Ar	N2, H2, AIR, O2



With digital and analogue alarm box.

Applications: Point of use low-pressure selection for < 10 bar between plant or gas generator output & Cylinder for Lab Instrument like GC, HPLC, ICP, LCMS, etc

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GREEN HYDROGEN PLANT



Hydrogen Capacity	1 Nm3 to 3000 Nm3
Hydrogen Purity	99% to 99.999%
Oxygen Capacity	0.5 Nm3 to 1500 Nm3

1. H2 produces by Electrolysis Technology to produce UHP Hydrogen Gas from H2O
2. High quality components and Optimized design to ensure the excellent quality
3. Low operation cost 7 x 24 Continuously running
4. Optimised structure, Compact design, Plug and play
5. Intelligent evacuation of unqualified Hydrogen to realize unattended
6. Adsorption canister uses astronautics sophisticated aluminum profile

KOH HYDROGEN GAS GENERATOR

With 2 Yr. Cell Warranty & Optional Automatic Water Fill

Hydrogen Flow	300m/min to 3000ml/min
Hydrogen Purity	99.95% to 99.99999%
Hydrogen Outlet Pressure	0-4 bar or 0 - 7 bar



- System Integration - H2 produces by Electrolysis Technology to produce UHP Hydrogen Gas from H2O
- High Reliability - High quality components and Optimized design to ensure the excellent quality
- Cost Saving - Low operation cost 7 x 24 Continuously running
- Easy for Operation - Optimised structure, Compact design, Plug and play
- Intelligent Control - Intelligent evacuation of unqualified Hydrogen to realize unattended
- Unique Material Selection - Adsorption canister uses astronautics sophisticated aluminum profile,

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PEM/SPE HYDROGEN GENERATOR FOR GC



Hydrogen Capacity	150ml/min to 3000ml/min
Hydrogen Purity	99.999% / 99.9999%
Oxygen Capacity	0-4 bar or 0-7 bar

1. No longer need to use dangerous and expensive hydrogen cylinders.
2. Stable output flow, safe and convenient to operate, various alarm devices (over pressure alarm, water shortage alarm, water accumulated alarm).
3. Easy to operate, safe and reliable, generating hydrogen through electrolyzing pure water, switching power on to produce gas (available for several sets of gas chromatography).
4. High electrolysis efficiency. Gas purity and output flow will stay regular under continual use.
5. High reliability, easy to maintain.
6. Match with all kinds of GC.
7. No corrosion and pollution.

PEM/SPE HYDROGEN GENERATOR FOR CVD

Hydrogen Flow	300m/min to 4000ml/min
Hydrogen Purity	99.999%
Hydrogen Outlet Pressure	Standard machine: 0.4MPa High Pressure machine: 0.5 MPa to 1.0 MPa



1. World advanced "SPE" technology (solid polymer electrolysis), to produce 99.999% H2. Not have any damage to the H2 application machine.
2. No chemical inside. Directly electrolysis using pure water.
3. Use proton exchange membrane from USA "Dupont" brand. This membrane has high drug resistance and durability. Longer lifetime.
4. Our cell uses platinum catalytic technology. And uses 100% titanium material for electrodes and water passing plates. Which guarantees O2 content less than 0.1ppm. H2 purity is very high.
5. Electric automatic control system, H2 output flow rate is stable. Little fluctuation.
6. Has H2 output flow rate and output pressure display.

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PRAMA
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NITROGEN GAS GENERATOR

With & without in-built compressor

LCMS-MS

Nitrogen Flow (LCMS)	6 to 65 LPM
Nitrogen Purity	LC-MS Grade
Nitrogen Outlet Pressure	UP TO 7BAR

LCMS-MS - Trigas Nitrogen Zero Air Curtain Dry Air Flow	 4 to 24 LPM 12 to 48 LPM 8 to 32 LPM
Nitrogen Purity	LC-MS Grade
Nitrogen Outlet Pressure	UP TO 7BAR

- Compatible with all LCMS
- Full Automation
- Lower Space Requirement
- Fast Start-up time of only 5 minutes
- High Reliability
- Membrane life: Expected membrane life is around 15-years
- Adjustable so that you can deliver nitrogen with precisely the right purity





GAS CHROMATOGRAPHY

Nitrogen Flow	200 ml to 500 ml/min
Nitrogen Purity	99.999%
Nitrogen Outlet Pressure	UP TO 7BAR

Combination for GC Nitrogen Flow Air flow	 200 ml to 500ml/min 2000 to 5000ml/min
Purity	99.999%
Nitrogen Outlet Pressure	UP TO 7BAR

- Deliver constant pressure & flow
- Fully automatic programmable system
- Easy maintenance and space saving
- Effortless and easy operation
- Improves instrument performance
- CE & ISO 9001:2015 FDA certified
- CAD Detector
- Fully regenerative, durability with PSA (pressure swing adsorption) technology

- Can replace any high pressure nitrogen cylinder to make the laboratory instrumented and ensure the safety.
- Automatic control of working process, simple operation and convenient daily maintenance.
- Long service life, continuous or intermittent use, stable gas production and no attention.
- The system has built-in pressure stabilizing unit of air storage tank and safety valve design with international standards.

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NITROGEN PLANT

With In-built O2 Analyser & Economy Mode Function

Nitrogen Capacity	1 Nm3 to 10000 Nm3
Nitrogen Purity	99.9999%
Nitrogen Outlet Pressure	with booster 400 bar



1. Capable of supplying multiple instruments
2. 24/7 operation at optimum performance
3. Lower maintenance requirement and ensures long life of the generator
4. Completely silent in operation
5. Automatic Drain system
6. Automatic moisture purge system
7. Compact in size
8. MOC Towers : Aluminum

LIQUID NITROGEN GENERATOR



Liquid Nitrogen Capacity	1 Nm3 to 5000 Nm3
Liquid Nitrogen Purity	95% to 99.999%

- The conventional approach to acquiring nitrogen involves air liquefaction followed by distillation at specific temperatures.
- This process is intricate, resulting in a substantial overall nitrogen production cost.
- The PSA generator, on the other hand, operates effectively under standard atmospheric conditions, offering the subsequent advantages:
- Cost-Effective Production.
- • Streamlined Process with Minimal Equipment, High Automation, and Operational Convenience.
- Rapid start-up and simple shutdown procedures. The system can deliver product gas within 30 minutes of initiation and supports intermittent operation.
- Operates at low pressure, ensuring safety.
- Notable flexibility. Nitrogen purity and output can be easily adjusted.

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ZERO AIR GENERATOR

Zero Air Capacity	1 to 500 LPM
Zero Air Purity	<0.1 PPM Organic Impurity
Zero Air Outlet Pressure	UP TO 7BAR





DESICCANT AIR DRYER

With In-built O2 Analyser & Economy Mode Function

Inlet/Outlet Size: 1/4" OD

Capacity: 5 CFM/10 CFM

Dew Point at Dryer Outlet: 40°C maximum

Ambient Temperature: 45°C maximum

Operating Pressure: 12 kg/cm² maximum

DRY NITROGEN EVAPORATOR

- Corrosion-Resistant Powder Coating
- Dry Block Heating: 360W
- Quick & Uniform Heating with Special Aluminum Block
- Digital LCD & Auto-Cut off: Precision sensors for time, temp & gas flow
- Built-in Exhaust Fan & Ventilation
- Front Analog Pressure Gauge: 0-100 psi, 2 psi increments
- 50-Row Nitrogen Dispensing Nozzles
- Dimensions: 55 x 38 x 30 cm (LxBxH)
- LCD Program & Temp Display: Shows all vital settings



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REUSABLE SYRINGE FILTERHOLDER 13, 25 MM

Typical applications involve ultrafiltration of highly aggressive chemicals and microbiological samples, sterilization of HPLC samples, eyewash samples, buffers, serums, photoresists, plant extract...
Available in SS 316, Polyacetal (Delrin), PTFE (Teflan) with standord Syringe Luer lock inlet and outlet.





INLINE PROCESSFILTER HOLDER 90, 142, 293 MM

For large volume process filtration of pharmaceuticals, sterilization of tissue culture medio, blood plasma fractions, ultra cleaning photo resists, DI water, serums, solvents and chemicals, sterilizing large volumes of fluids, gases and hazardous acids, solvents. Available in SS 316 housing with intercity testing arrangement & sanitary conditions for filters of diameter 90, 142 & 293 mm.

STERILITY TESTMANIFOLD SYSTEM3, 6 STATIONS

For filtering multiple samples off single vacuum source using PRAMA sterility test filter holders. Typical applications involves sterility testing of antibiotics and pharmaceutical solutions, yeast and mold detection, microbiological analysis of retained particles, waste water and particulate analysis. Available in SS 316 housing with non contact parts like base or handles in SS 304.



OTHER PRODUCTS

Membranes, Prefilters & Cartridges
Disposable Syringe Filter Holders
Silicone Septa - Teflon Bonded & Plain
Large Volume Filtration Funnels
Strainers & Sparkler Filters
SS Housings & 80g Filters
Pressure vessels & Trolleys
Tissue Culture Racks
Glass Magnifiers



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TK-F TUBE FITTINGS

T-LOK is a high performance tube fitting that combines the sealing properties and quality control technologies required for power plant instrumentation fittings, other industries and the ultra-pure construction required used in fittings used in semiconductor manufacturing equipment.

T-LOK is new value series that provides high performance, cost effectiveness, and quick delivery. T-LOK tube fittings combine leading edge manufacturing technology and exceptional cost performance.

CONNECTOR TYPES & SIZES

Description	Size	Size
Union Reducing Union Union Tee Reducing Union Tee Union 90° Elbow Female Connector Reducer Reducing Port Connector Port Connector Male Connector Male Pipe Weld Connector Tube Socket Weld Connector Male 90° Elbow Male Pipe Weld 90° Elbow Tube Socket Weld 90° Elbow Female 90° Elbow Male Run Tee Female Run Tee Male Branch Tee Female Branch Tee Bulkhead Union Bulkhead Female Connector Bulkhead Reducer Bulkhead Male Connector Union Cross Cap Plug Female Tube Adapter Male Tube Adapter Male 45° Elbow Back Ferrule Front Ferrule Ferrule Set Female Nut Nut-Ferrule Set Male Nut Tube Insert	2mm 3mm 4mm 6mm 8mm 10mm 12mm 14mm 15mm 16mm 18mm 20mm 22mm 25mm 28mm 32mm 38mm 42mm	1/16" 1/8" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/4" 1 1/2" 2"

T-LOK

- Leakproof Tube Fittings
- Size from 1/16 to 2 inch and 3 to 38mm is available
- Convenient to disconnect and assemble
- Various materials and appearance


UNION 900 ELBOW


REDUCING UNION


UNION TEE


REDUCING UNION TEE


MALE CONNECTOR


BULKHEAD UNION


UNION CROSS


FEMALE CONNECTOR


REDUCING PORT CONNECTOR


UNION


CAP


PLUG


MALE BRANCH TEE


NUT & NUT-FERRULE SET


MALE NUT (INCH)


FEMALE 900 ELBOW

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TK-F GI VALVES

- **One-piece Ball Valves**
  - Maximum Working Pressure : 3,000 psig (206 bar) @ 100˚F (37˚C)
  - Working Temperature Range : 50˚F(10˚C) to 150˚F(65˚C)



- **Three Pieces Ball Valves**
  - Maximum Working Pressure : 2,200 psig (151 bar) @ 100˚F (37˚C)
  - Working Temperature Range : -20˚F (-28˚C) to 302˚F (150˚C)



- **Hex Ball Valves**
  - Maximum Working Pressure : 1,000psig (69bar) @ 100˚F (38˚C)
  - Working Temperature Range : 0˚F (-17˚C) to 302˚F (150˚C)



- **Trunnion Ball Valves**
  - Maximum Working Pressure
    - TBL SERIES : 6,000 psig (413 bar) @ 100˚F (37˚C)
    - HTBL SERIES : 1,0000psig (689bar) @ 100˚F (37˚C)
  - Working Temperature Range : 0˚F(-17˚C) to 450˚F(232˚C)



- **Forged High Pressure Ball Valve**
  - Maximum Working Pressure : up to 6,000 psig (413bar) @ 70°F (21°C) with standard PCTFE seat
  - Working Temperature Range : -63°F(-53°C) to 351°F (177°C) With standard PCTFE seat



- **Plug Valves**
  - Maximum Working Pressure : 3,000 psig (206bar) @ 100˚F (37˚C)
  - Working Temperature Range : -10˚F (-23˚C) to 400˚F (204˚C)



- **Check Valves**
  - Maximum Working Pressure
    - ICH SERIES : 6,000 psig (413 bar) @ 100˚F (37˚C)
    - ICL SERIES : 3,000 psig (206 bar) @ 100°F (37˚C)
  - Cracking Pressure : 1/3 psig (0.03 bar) to @ 25 psig (1.80 bar)
  - Working Temperature Range : -10˚F(-23˚C) to 375˚F(190˚C)



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TK-F GI VALVES

- **Toggle Valves**
  - Maximum Working Pressure : 300 psig (20.6 bar) @ 100˚F (37˚C)
  - Working Temperature Range : -20˚F(-28˚C) to 200˚F(93˚C)



- **Relief Valves**
  - Maximum Working Pressure
    - RVL SERIES : 300 psig (20.6 bar) @ 100˚F (37˚C)
    - RVH SERIES : 6,000psig (420 bar) @ 100˚F (37˚C)
  - Working Temperature Range : -10˚F(-23˚C) to 300˚F(148˚C)
  - Cracking Pressure
    - RVL SERIES : 10 psig (0.68 bar) to 225 psig (15.5 bar)
    - RVH SERIES : 50psig (3.4 bar) to 6,000 pisg (413 bar)



- **Integral Bonnet Needle Valves**
  - Maximum Working Pressure : 5,000 psig (344 bar) @ 100˚F (37˚C)
  - Working Temperature Range : -65˚F(-54˚C) to 600˚F (315˚C)



- **Union Bonnet Needle Valves**
  - Maximum Working Pressure
    - TUNV SERIES : 6,000 psig (413 bar) @ 100˚F (37˚C)
    - THUNV SERIES : 10,000psig (689bar) @ 100˚F (37˚C)
  - Working Temperature Range : -65˚F(-54˚C) to 1,200˚F(648˚C)



- **Manifold Valves**
  - Maximum Working Pressure : 6,000 psig (413 bar) @ 100˚F (37˚C)
  - Working Temperature Range
    - PTFE Packing : -65˚F (-53˚C) to 450˚F (232˚C)
    - Grafoil Packing : -65˚F (-53˚C) to 1,200˚F (648˚C)



- **Gauge Valves**
  - Maximum Working Pressure : 6,000 psig (413 bar) @ 100˚F (37˚C)
  - Working Temperature Range
    - PTFE Packing : -65˚F (-53˚C) to 450˚F (232˚C)
    - Grafoil Packing : -65˚F (-53˚C) to 1,200˚F (648˚C)



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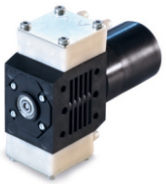
THOMAS PRODUCTS

- **E160 SERIES PUMP: E160N42XBMLSXX**
  - Max. Flow 123.7 l/min (4.4 cfm)
  - Max. pressure 6.2 bar (90 psi)
  - Max. vacuum 91% local barometer



VACCUM PUMP

- **E160 SERIES PUMP: E160N54XBMLXXX**
  - Max. Flow 137.4 l/min (4.9 cfm)
  - Max. pressure 2.4 bar (35 psi)
  - Max. vacuum 91% local barometer



LIQUID DIAPHRAGM PUMP





PERISTALTIC LIQUID PUMP

- **E160 SERIES PUMP: E160N44XBMLSXX**
  - Max. Flow 125.7 l/min (4.44 cfm)
  - Max. pressure 2.4 bar (35 psi)
  - Max. vacuum 91% local barometer



LIQUID DIAPHRAGM PUMP

- **WOB-L® 2450 Series PUMP: 2450AUU46**
  - Max. Flow 2.78 cfm (78.7 l/min)
  - Max. Pressure 30 psi (2.07 bar)



GAS DIAPHRAGM PUMP

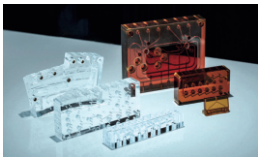
KEYTO PRODUCTS



Superb Air Displacement Pipette



Air Displacement Pipette

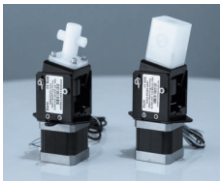


Bonded Manifold & Microfluidics



Programmable Syringe Pump

- Multi Channel Rotary Sheer Valve
- Assembled Diaphragm Type
- Solenoid Valve
- Proportional Valve
- Temperature and Pressure Resistance Valve
- Direct Operated Solenoid Valve
- Pinch Valve



Metering Pump



Rocker Solenoid Valve

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OTHER PRODUCTS



Gas Sampling Bomb



Peek Finger Tight Nut



Graphite Ferrules



Inline Filter Holder



Air compressor with 20 L tank



Mobile Phase Filter



HPLC Columns



HPLC Injection Loop



Reusable Syringe Filter Holders



Ultrasonic bath



Peek Tubing



Capillary Coloumn



Crimper & De-Crimper



Disposal Syringe Filter Holder



Tubings and casing



1/8' to 1' OD Tee



1/8' to 1' OD Union



Gas Sampling Valve



High Pressure Autoclave



Cylinder bracket with chain



Needle valve



3 Way Valve



SS Clamp

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INSTRUMENT TABLES









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OUR CUSTOMERS

























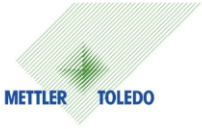














































ISO 9001:2008 CERTIFIED ORGANISATION

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R-80, TTC Industrial Area, MIDC, Rabale, Navi Mumbai -400701, Maharashtra, India
Tel. No: +91 9137527819 | Mobile: +91 9820153024
Email: info@pramagroup.com / marketing@pramagroup.com

Baroda, Gujarat 390007
Nilesh Parmar: +91 7043405169 / nileshp@pramagroup.com

group.com