

DAWSONS-TECH[®]

OVER 35 YEARS OF EXPERIENCE



CATALOGUE NO.
DTC-GC-2024

HIGH PRESSURE INSTRUMENTATION CNG / HYDROGEN PRODUCTS

www.dawsonstech.com

THE COMPANY :

DAWSONS-TECH® is an ISO 9001:2015 certified manufacturing company offers wide range of **Consistent, Reliable and Superior Quality** High Pressure Instrumentation / CNG / Hydrogen Products used in Vehicles, Fueling Equipments like CNG Cascades, CNG Dispensers, Booster Compressors, Online Compressors, Decompression Skid, LCV Filling Post, Meter Regulation Skids, Pressure Regulation Skids, etc.




dedicated team of employees in place. This facilitate us to design and manufacture our product range under stringent quality checks and measurements that ensures **"A TOTAL CUSTOMER SATISFACTIONS"**.

QUALITY :

DAWSONS-TECH® pursues not only performance of its products but also ensures **"TOTAL QUALITY CONTROL MANAGEMENT SYSTEMS IN ACCORDANCE WITH ISO 9001:2015"** which is achieved by alerting and educating each and every employee, the importance of quality and by implementing the quality control procedures at every stage of production to final inspection from incoming raw material to finish products.

MANUFACTURING :

DAWSONS-TECH® established its comprehensive state of art manufacturing and testing facility installing various CNC Turning Centre and CNC Turnmill Centre, Vertical Machining Centre, etc. with the highly motivated and

|  OUR CAPABILITIES |  CERTIFICATIONS |  BENEFITS |
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| <ul style="list-style-type: none"> • Over 35 Years of Experience • Excellent Technical Knowledge • Latest Design Equipment's & Software • Modern Manufacturing Facilities • Highly Motivated Team of Employees • Excellent Inspection Facilities • Product Performance Testing Facilities | <ul style="list-style-type: none"> • ISO 9001-2015 • ISO 14001-2015 • ISO 45001-2018 • PED 2014/68/EU • ASTM F1387-19 • MSS SP-99-2016a • Helium Leak Test • Hydro Static Proof Test • Pneumatic Proof Test | <ul style="list-style-type: none"> • High Quality • Proven Design for Leak Free Connections • Effective Operations • High Efficiency • Prompt Reply • Maximum Flexibility • Maximum Safety in Operation • Substantial Cost Saving |









RESEARCH & DEVELOPMENT :

With our extensive experience, expertise and continues Research & Development with incorporation of advanced technology and high-tech cutting-edge machineries, **DAWSONS-TECH®** is committed to constant upgradation and expand its product range to meet the requirements of its customer to their entire satisfaction at every time.

CUSTOMER SATISFACTION :

We strive to achieve total customer satisfaction and continuously work to set higher goals to provide the reliable quality, timely delivery of our products and prompt services in the best interest of our customers with **Very Competitive Price**.

OUR MISSION

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|  RESPONSIBILITY |  RELIABILITY |  ENVIRONMENTAL AWARENESS |  TECHNICAL EXPERTISE |  INNOVATIVE TECHNOLOGY |  DEVELOPMENT |  CUTTING EDGE SOLUTIONS |  TOTAL CUSTOMER SATISFACTION |
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Twin Ferrule Compression Tube Fittings

- Available in Tube Size : 1/8" to 1" ODT & 3mm to 25mm Tube OD.
- Available in material SS316L. Other Materials such as Super Duplex, Monel, Inconel 625/825 Etc. are available on request.
- Case Hardened Back Ferrules to have strong Tube grip.
- Internally Silver Plated Nut.
- Intermix and Interchangeable with Internationally Renown Brand Fittings.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar) at CWP.

Applications : Fluid / Gas Control Systems.

For more details, please refer our Catalogue No. TF-21

Tube Fittings for Pressure Rating 15000 PSIG (1034 Bar)

- Available in Size : 1/4" to 1" ODT & 6mm to 25mm Tube OD.
- Available in material SS316L Meeting NACE, Other Materials are available on request.
- Front & Back Ferrules are Case Hardened to have strong Tube Grip which ensures Leak Free Sealing & Vibration Resistance.
- Male Nuts are Molybdenum Coated / Silver Plated to have low torque during installation.
- Maximum Rated Pressure : UPTO 15000 PSIG (1034 Bar) at CWP.

Applications : Fluid / Gas Control Systems including Hydrogen Gas.

For more details, please refer our Catalogue No. MPTF-24



Precision Thread Pipe Fittings & Adapters

- Available in Size : 1/8" to 1" BSPP / BSPT / NPT / SAE Pipe Threads.
- Available in material SS316L. Other Materials such as Super Duplex, Monel, Inconel 625/825 Etc. are available on request.
- Precision Pipe Fitting are designed referring to SAE J514.
- Pressure Ratings are calculated in accordance with ANSI B31.1 x 0.94.

Applications : Instrumentation, General Services, etc.

For more details, please refer our Catalogue No. PPA-21

37° Flare Fittings

- Available in Size : 1/4" to 1" & 6mm to 25mm Tube OD.
- Available in material SS316L.
- 37° Flare Fittings are designed according to SAE J514 / ISO 8434-2.
- Maximum Rated Pressure : UPTO 5000 PSIG (345 Bar) at CWP.

Applications : Pneumatic & Hydraulic.

For more details, please refer our Catalogue No. 37F-21





2 Way Ball Valves Series : VB81

- Available in Size : 1/4" to 1" & 6mm to 25mm Tube OD.
- 1/8" to 1" (Male / Female) BSP / BSPT / NPT Pipe Threads.
- Available in material SS316L.
- Available with Live Load Ball Seat.
- Three Piece Body & Floating Ball design.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar) at CWP.

Applications : Gas / Fluid Delivery Systems.

For more details, please refer our Catalogue No. VB-21

3 Way Trunnion Ball Valves Series : VB95

- Available in Size : Inch : 1/4" to 3/4" Tube OD,
Metric : 6mm to 18mm Tube OD.
- 1/4" to 1/2" (Male / Female) BSP / BSPT / NPT Pipe Threads.
- Available in material SS316L.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar) at CWP.

Applications : CNG Fueling System, High Pressure Service.

For more details, please refer our Catalogue No. 3VB-22



Check Valves Series : VC31 & VC35

- Available in Size : 1/4" to 1" & 6mm to 25mm Tube OD.
- 1/8" to 1" (Male / Female) BSP / BSPT / NPT Pipe Threads.
- Available in material SS316L.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar) at CWP.
- Cracking Pressure : 1/3, 1, 5, 10, 25, 50 & 100 PSIG.

Applications : Gas / Fluid Delivery Systems.

For more details, please refer our Catalogue No. VC-21



2 / 3 Way Manifold / Block & Bleed Valves

- Available in Size : 1/2" BSPP / BSPT / NPT Female Pipe Threads.
- Available in material SS316L.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar) at CWP.

Applications : Pressure & Differential Pressure Measurement.

For more details, please refer our Catalogue No. IV-21





Relief Valves Series : SRV027

- Available in Size : Inch : 1/4" Tube OD.
1/4" NPT (Male / Female) Pipe Threads.
Metric : 6mm & 8mm Tube OD.
- Available in material SS316L.
- Cracking Pressure : Adjustable from 50 PSIG to 6000 PSIG (3.4 Bar to 413 Bar).

Applications : To Prevent over Pressure.

For more details, please refer our Catalogue No. VR-22

Quick Connect Couplings Series : CQ11

- Available in Size : 1/4" to 1" BSP / BSPT / NPT Pipe Threads.
- Available in material SS316L.
- Quick Connect Coupling Series : CQ11 is interchangeable with ISO 7241-1 Series 'B' Couplings.
- Maximum Rated Pressure : UPTO 5000 PSIG (345 Bar) at CWP.

Applications : Hydraulic, Food & Chemical Processing, Gases, etc.

For more details, please refer our Catalogue No. QCC-21



CNG Receptacles Series : DTLR01 & DTLR03

- Available Connection Size : 9/16" x 18 UNF, 1/4" to 1/2" Tube OD,
6mm to 12mm Tube OD.
- Available in material SS316L.
- Compact & Robust Construction.
- Maximum Flow Design for NGV1 Type 1 & 2 Nozzles.
- Available with Internal Unidirectional Flow Check Valve.
- Dust Protective Caps are supplied with all NGV Receptacles.
- CNG Receptacles with particle filter are available on request.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : Automotive CNG Vehicles.

For more details, please refer our Catalogue No. CNGAF-24

CNG Receptacles Series : DTSR05 & DTSR07

- Available Connection Size : 7/8" x 14 UNF, 1/2" to 5/8" &
12mm to 16mm Tube OD.
- Available in material SS316L.
- High Flow / Fast Filling Capability for Buses & Trucks.
- Available with Internal Unidirectional Flow Check Valve.
- Dust Protective Caps are Supplied with All NGV Receptacles.
- Max. Rated Pressure : 5000 PSIG (345 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : Automotive CNG Fueling (Buses & Trucks).

For more details, please refer our Catalogue No. CNGAF-24





In-Line Breakaway Series : ILBW41

- Available in Size : SAE-6, 9/16" x 18 UNF (Female).
- Available in material SS316L / Brass.
- Compact & Robust Construction.
- Maximum Flow Designed for NGV1 Type 1 & 2 Nozzles.
- Available with Internal Check Valve which minimize the vent gas release during a drive away incident.
- Re-connectable Design which allows the components to be re-used.
- Disconnection Force : 130 lbs (±30 lbs).
- 100% Leak & Breakaway tested.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : CNG Dispensers Fill-Line.

For more details, please refer our Catalogue No. CNGAF-24

Fill-Line Breakaway Series : DTBW10

- Available in Size : SAE-6, 9/16" x 18 UNF (Female).
- Available in material SS316L / Brass.
- Compact & Robust Construction.
- Maximum Flow Provides Quick Fueling.
- Available with Internal Check Valve which minimize the vent gas release during a drive away incident.
- Disconnection Force : 130 lbs (± 30 lbs).
- 100% Leak & Breakaway tested.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : CNG Dispensers Fill-Line.

For more details, please refer our Catalogue No. CNGAF-24



Fill-line Breakaway Series : DTBW20

- Available in Size : 7/8" x 14 UNF, SAE-10 Female Port.
- Available in material SS316L & Brass.
- Designed for High Flow / Fast Filling Capability for Buses & Trucks.
- Compact & Robust Construction.
- Available with Internal Check Valve which Minimize the Vent Gas Release During Drive away Incident.
- Disconnection Force : 150 lbs (± 30 lbs).
- 100% Leak & Breakaway Tested.
- Maximum Rated Pressure : 4525 PSIG (312 Bar).
- Temperature Range : -40°C to +85°C.

Applications : CNG Dispensers Fill-Line (Buses & Trucks).

For more details, please refer our Catalogue No. CNGAF-24



Vent Line Breakaway Series : DTBW05V

- Available in Size : SAE-6, 9/16" x 18 UNF (Female).
- Available in material SS316L.
- Compact & Robust Construction.
- Re-connectable Design.
- Passive Design permits the pressure to release to through Vent Line during separation.
- Disconnection Force : 50 lbs (± 15 lbs).
- 100% Leak & Breakaway tested.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : CNG Dispensers Vent Line.

For more details, please refer our detail Catalogue No. CNGAF-24





NGV Fueling Nozzle Series : DTNZ21

- Available In-Let Connection Size : SAE-6, 9/16" x 18 UNF (Female).
- Available in material SS316L & Brass.
- Easy to Operate by Push On / Pull Off.
- Designed as Type 2 or 3 NGV Nozzles.
- Jaw Locking System with Receptacles.
- Designed to meet NGV 1 & ISO 14469 Fueling Standard.
- Compact & Robust Construction.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : Automotive CNG Fueling.

For more details, please refer our Catalogue No. CNGAF-24

NGV Fueling Nozzle Series : DTNZ81

- Available In-Let Connection Size : SAE-10, 7/8" x 14 UNF (Female).
- Available in material SS316L, Aluminium & Brass.
- Easy to Operate by Turn ON / OFF Actuation Lever.
- High Flow Rate for Fast Fueling.
- Recirculation of Vent Gas.
- Jaw Locking System with Receptacles According to NGV1 Standard & ISO 14469 Standard.
- Compact, Light in Weight & Robust Construction.
- Plastic Thermal Protection.
- Maximum Rated Pressure : 4530 PSIG (312 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : Automotive CNG Fueling (Buses & Trucks).

For more details, please refer our Catalogue No. CNGAF-24



CNG Filter Series : RFTR3 & RFTR7

- Available in Size : 1/2" NPT & 3/4" NPT (Female) In-Let / Out-Let.
- Available in material SS304 & SS316L.
- Designed to use to Filter Contaminants from Gases.
- Remove over 95% of all aerosols in 0.01 micron size.
- Replaceable Filter Element.
- Maximum Rated Pressure : 3630 PSIG (250 Bar) at CWP.
- Temperature Range : -40°C to +85°C.

Applications : Alternative Fuels (CNG, LNG & LPG).

For more details, please refer our Catalogue No. CNGAF-24

Needle & Bleed Valves

- Available in Size : 1/4" to 1/2" & 6mm to 12mm Tube OD.
1/4" to 1/2" (Male / Female) NPT Pipe Threads.
- Available in material SS316L.
- Flow coefficient (Cv) from 0.25 to 1.8.
- Orifice Size : 4.3mm, 6.4mm & 9.5mm.
- Maximum Rated Pressure : UPTO 6000 PSIG (413 Bar).

Applications : Fluid / Gas Control Systems.

For more details, please refer our Catalogue No. IV-21



Considering the great foresight of growing demand of Alternative Fuel Vehicles, **DAWSONS-TECH®** has very carefully Designed, Engineered and Manufacture wide range of Alternative Fuel Superior Quality Products with innovative technology such as

- Tube Fittings
- Valves
- Quick Connect Couplings
- Vehicle Receptacles
- Fill-Line Breakaway
- In-Line Breakaway
- In-Line Vent Breakaway
- Fuelling Nozzles
- CNG Filters
- Others

with maximum safety and outstanding functionality to meet the requirements of CNG Vehicles, CNG Fuelling Systems, CNG Cascades, CNG Dispensers, Booster Compressors, Online Compressors, Decompression Skid, LCV Filling Post, Meter Regulation Skids, Pressure Regulation Skids, CNG Station Tubing, etc.

DAWSONS-TECH® Products are Cost Effective and having Proven Design, Easy to Operate, Maximum Safety and Reliability which ensures High Performance and most beneficial for the Customers.




DAWSONS-TECH® is committed to upgrade and expand its product range by way of continuous Research & Development Programme with advanced Technology and Cutting-Edge Solutions for Alternative Fuel Systems for its Customers.

Incorporate DAWSONS-TECH® Fittings & Valves in your purchase & Avail Substantial Cost Saving

For more information, Please contact us by E-mail : info@dawsonstech.com

Our Valued Customers

PROJECT CONSULTANTS

| | | |
|--|---|--|
|  M/s. Mecon Limited |  M/s. Tractebel Engineering Pvt. Ltd. |  M/s. VCS Quality Services Pvt. Ltd. |
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ORIGINAL EQUIPMENTS MANUFACTURERS

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|  M/s. Confidence Group |  M/s. Rama Cylinders Pvt. Ltd. |  M/s. Everest Kanto Cylinders Ltd. |  M/s. Maruti Koatsu Cylinders Ltd. |
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|  M/s. Sahuwala Cylinders Pvt. Ltd. |  M/s. Maruti Engineering and Services |  M/s. Urjika Consulting & Engineering Solutions Pvt. Ltd. |  M/s. TGT Fuel Technologies Pvt. Ltd. |  M/s. Skancorp Gas Technologies Pvt. Ltd. |  M/s. Chroma Power Systems India Pvt. Ltd. |  M/s. Sanmish Energies Pvt. Ltd. |
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CGD END USERS

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|  M/s. Indraprastha Gas Ltd. |  M/s. Gujarat Gas Ltd. |  M/s. GAIL Gas Ltd. |  M/s. Maharashtra Natural Gas Ltd. |  M/s. Vadodara Gas Ltd. |  M/s. Megha City Gas Distribution Pvt. Ltd. |  M/s. IndianOil-Adani Gas Pvt. Ltd. |
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