

DATASHEET

DIRECT AGENT RELEASE (DAR) SYSTEM

PRODUCT DESCRIPTION

FIRESCI's Direct Agent Release (DAR) System is a compact and reliable fire suppression solution designed for small, enclosed spaces like electrical cabinets, control panels, and other critical enclosures. Utilizing the FIRESCI Heat Sensing tube (HST), the system detects fire at its source and automatically releases the clean agent directly through the rupture point. With a simple design requiring no external power or electronics, the DAR system provides fast, targeted fire suppression, minimizing damage and downtime. Built for efficiency and durability, it is ideal for protecting sensitive equipment in high-risk areas.

WHAT IT DOES

The DAR system uses pressurized heat-sensitive tubing routed inside the enclosure to detect fire. When exposed to high temperatures, the tubing ruptures at the hottest point, acting as a nozzle to release the clean agent directly onto the flames. This rapid and localized suppression quickly extinguishes the fire, preventing its spread and safeguarding critical assets.

FEATURES & BENEFITS

- Direct Fire Suppression at the Source
- No External Power Required
- Fast and Reliable Activation
- 195 PSI pressurization
- Clean Agent Technology (HFC227ea / FK5-1-12)
- Simple Design and Installation
- Compact and Space Saving
- Low Maintenance Requirements



Cylinder Part No.	Description	Total Height	Discharge Height	Outside Diameter
3DARXXX	3lb Cylinder w/ DAR Valve	11.74" (298.20mm)	8.83" (224.28mm)	4.3" (109.22mm)
6DARXXX	6lb Cylinder w/ DAR Valve	15.59" (395.99mm)	12.68" (322.07mm)	4.3" (109.22mm)
12DARXXX	12lb Cylinder w/ DAR Valve	16.73" (424.94mm)	13.82" (351.03mm)	5.9" (149.86mm)
18DARXXX	18lb Cylinder w/ DAR Valve	22.44" (569.98mm)	19.53" (503.43mm)	5.9" (149.86mm)

ORDERING INFORMATION

Part Number: OCI 99011-R6-142
 OCI 99011-R6-191
 OCI 99011-R8-142
 OCI 99011-R8-191

DATASHEET

DIRECT AGENT RELEASE (DAR) VALVE

PRODUCT DESCRIPTION

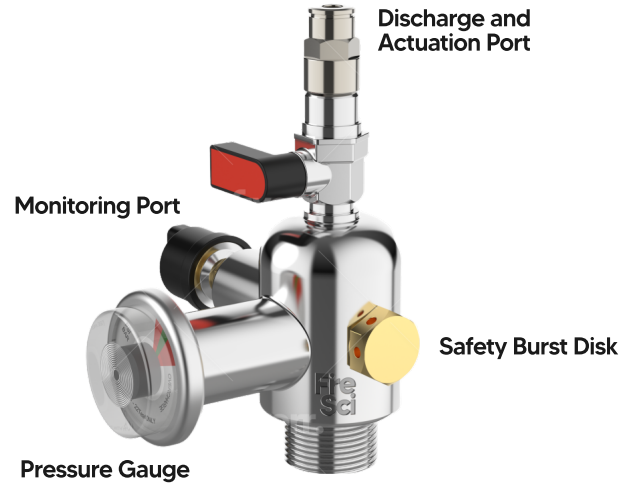
The FIRESCI DAR valve is a critical component of our Direct Agent Release (DAR) system, designed to ensure precise and reliable fire suppression. Manufactured from high-grade materials, the valve is engineered to withstand high operating pressures of up to 195 PSI and is rigorously tested at 600 PSI to guarantee durability and performance..

WHAT IT DOES

Equipped with a piston-based mechanism, the valve maintains consistent pressure within the cylinder, ensuring optimal performance during activation. When the heat-sensitive tubing (HST) detects a fire and ruptures, the valve quickly responds by releasing the clean agent through the discharge port and into the enclosure, suppressing the fire at its source.

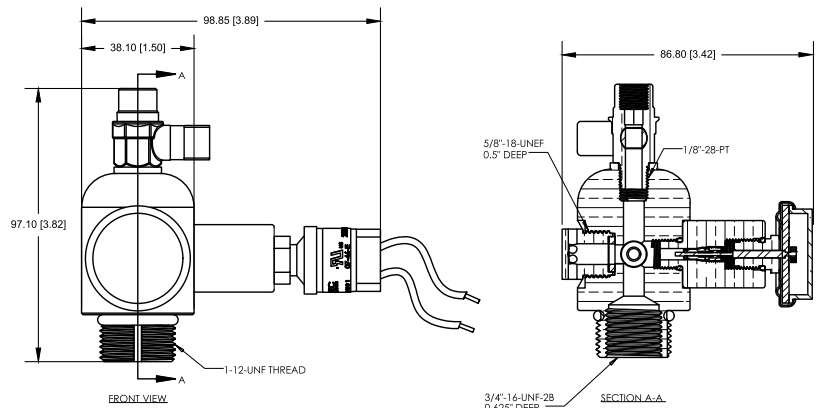
The valve's robust design includes safety features like a burst disc to prevent overpressure incidents and ensure system integrity. Its smooth operation and compatibility with various clean agents, including FK-5-1-12 and HFC227ea, make it ideal for protecting sensitive equipment in compact spaces like electrical cabinets, control panels, and industrial enclosures.

The FIRESCI DAR valve is an integral part of a fire suppression system you can trust, combining reliability, safety, and efficiency in a compact, durable design.



FEATURES & BENEFITS

- ▀ High Pressure Capacity
- ▀ Piston Based Mechanism
- ▀ Heat Sensing Tube (HST) Integration
- ▀ Burst Safety Disc Feature
- ▀ Durable Stainless Steel Construction
- ▀ Industry Compliant Standards
- ▀ Compact and Space Saving
- ▀ Smooth Activation



ORDERING INFORMATION

Part Number: OCI 99011-R6-142
 OCI 99011-R6-191
 OCI 99011-R8-142
 OCI 99011-R8-191

DATASHEET

HEAT SENSING TUBE (HST) SYSTEM

PRODUCT DESCRIPTION

FIRESCI's Heat-Sensing Tubing (HST) is a reliable and efficient fire detection and activation solution designed for compact enclosures and critical fire-prone areas. Acting as both a detector and actuator, the HST is pressurized and routed throughout the protected space, where it directly senses heat at the fire's source. Upon reaching a critical temperature, the tubing ruptures, triggering the release of clean agent through the system's discharge mechanism.

Built for precision and durability, FIRESCI's HST operates independently of electrical power, making it ideal for remote or high-risk environments. Its simple installation, minimal maintenance requirements, and rapid response time ensure dependable fire suppression where it matters most.

WHAT IT DOES

FIRESCI's Heat-Sensing Tubing (HST) detects fire by sensing heat at its source. When exposed to high temperatures, the tubing ruptures, triggering the release of the clean agent to suppress the fire quickly and effectively.

FEATURES & BENEFITS

- ▀ Continuous linear pneumatic heat detection device
- ▀ Humidity and vibration resistant
- ▀ 150mm Bend Radius
- ▀ Outside Diameter: 6mm / 8mm
- ▀ Inside Diameter: 4mm / 6mm
- ▀ Operating Pressure: 195 PSI / 13 BAR
- ▀ 100m Rolls



UL 521 Temperature Rating

Dial Diameter	109° C	Intermediate
Thread Size	142° C	High
Pressure Range	191° C	Very High

Heat Sensing Tube (HST)

ORDERING INFORMATION

Part Number: OCI 99011-R6-142
 OCI 99011-R6-191
 OCI 99011-R8-142
 OCI 99011-R8-191

DATASHEET

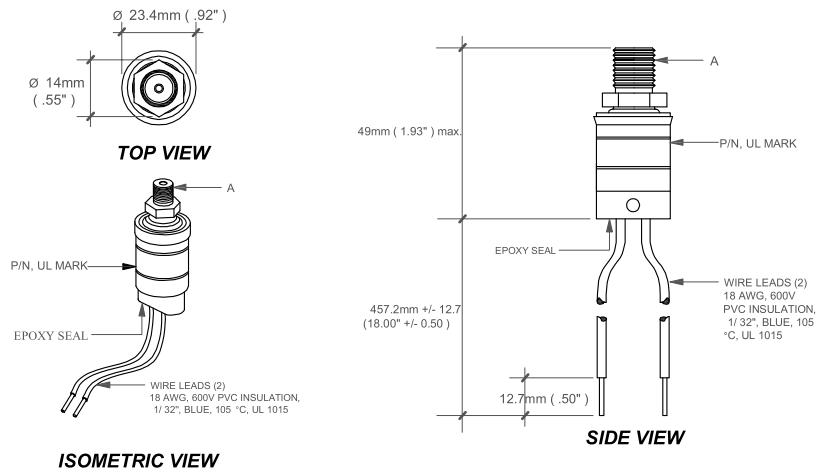
PRESSURE SUPERVISORY SWITCH

PRODUCT DESCRIPTION

The Pressure Supervisory Switch is used to monitor the pressure within the Clean Agent cylinder. If a cylinder leak occurs, and its pressure drops below 291 +/- 10 psig, the switch contacts will be activated, providing a signal to the Release Control Panel to indicate loss of pressure and/ or leakages. The Pressure Supervisory is wired into a supervised circuit to give a trouble signal upon activation.

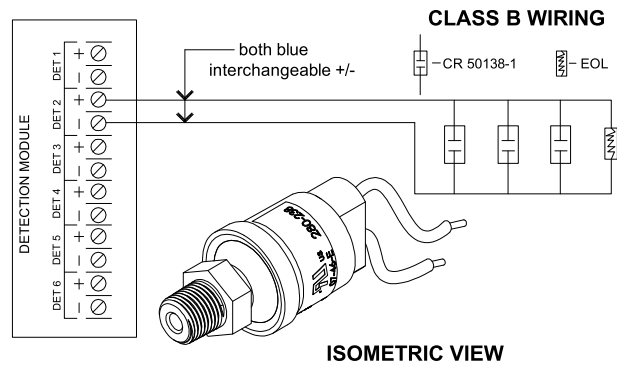
SPECIFICATIONS: 195 PSIG NORMALLY OPEN

1. Auto-reset pressure switch (SPST)
2. Type: Normally Open (N.O.) at atmospheric condition
3. Operation: Open: 291 +/- 10 psig
Close: 360 +/- 10 psig
4. Proof Pressure: 600 psig
5. Burst Pressure: 5000 psig
6. Electrical Ratings: 120/ 240 VAC - 375 VA
24 VAC - 125 VA
7. Cycle Life: 100,000 minimum
8. Ambient Temperature: -30 to +70° C
9. Fluid Temperature: -54 to +135° C
10. Agency Recognition: CE and UL Listed



FEATURES & BENEFITS

- Real Time Monitoring
- Early Issue Detection
- Enhanced Safety
- System Reliability
- Remote Alerts
- Compliance and Certification
- Ease of Integration
- Low Maintenance Requirements



ORDERING INFORMATION

Part Number: OCI 50138-11-S

DATASHEET

FIRE SUPPRESSION PRESSURE GAUGE

PRODUCT DESCRIPTION

FIRESCI pressure gauges are precision-engineered instruments designed to monitor cylinder pressure in fire suppression systems accurately. Featuring a compact and corrosion-resistant design, our gauges are built to withstand high-pressure environments, ensuring durability and long-term reliability. The easy-to-read dial provides clear, real-time pressure readings, making system checks efficient and straightforward.

Calibrated to match FIRESCI's 195 PSI DAR and SAR systems' operating pressures, these gauges ensure compatibility and enhance overall system safety. Ideal for industrial facilities, data centers, and other critical applications, FIRESCI pressure gauges provide dependable performance, helping ensure that fire suppression systems are always in optimal working condition.

WHAT IT DOES

FIRESCI's pressure gauges accurately report tank pressures up to 7,500 PSI and ensure a true full charge, recharge, or optimal pressure reading. If pressure falls below a predetermined level, the pressure gauge triggers a signal indicating the cylinder needs attention.

FEATURES & BENEFITS

- Made in the USA**
- ISO 9001 Certified**
- UL Listed:** With pressure ranges from 185-205 PSI.
- Superior Quality and Dependability:** Designed to meet the strict requirements of the fire protection and medical industries.
- Precision Engineering:** Ensures accurate pressure readings with minimal deviation.
- Corrosion Resistance:** Stainless steel materials for long lasting protection.
- Wide Compatibility:** Designed to integrate seamlessly with FIRESCI's SAR and DAR systems.

Parameter	Value
Dial Diameter	1.25" (31.75mm)
Thread Size	M10
Pressure Range	185-205 PSI
Depth	1.09" (27.686mm)



ORDERING INFORMATION

Part Number: CR 27-15-18-DC-3

DATASHEET

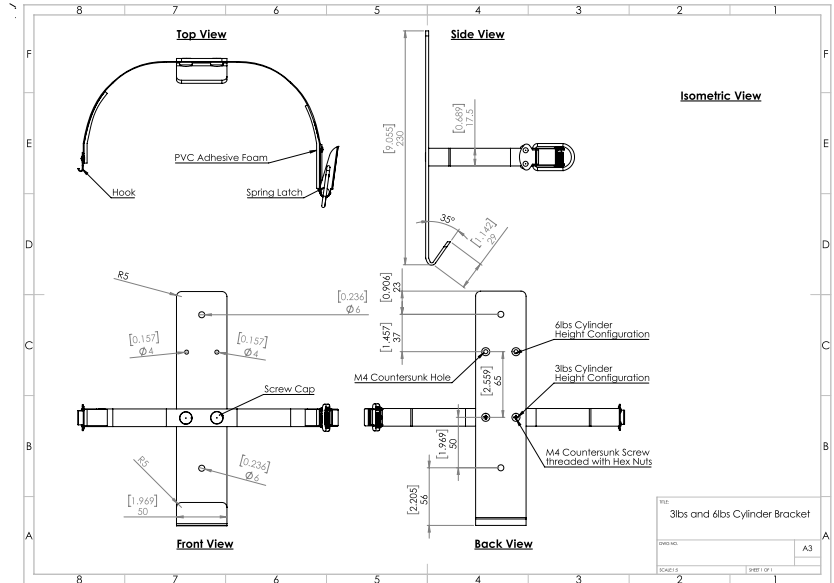
UNIVERSAL CYLINDER BRACKET SYSTEM

PRODUCT DESCRIPTION

Our Universal Bracket in FIRESCI's fire suppression systems is a versatile and sturdy component designed to securely hold cylinders ranging from 3 lbs to 18 lbs in size, including both standard and SMARTILT™ versions. Constructed from stainless steel, this bracket provides exceptional durability and resistance to corrosion, making it suitable for various environments where long-term reliability is essential.

ADJUSTABLE DESIGN

The universal bracket is adjustable, accommodating FIRESCI's full range of cylinder sizes (3 lbs, 6 lbs, 12 lbs, and 18 lbs). This flexibility ensures compatibility across different setups and cylinder requirements, enabling efficient protection in diverse applications.



NO DRILL OPTION

For installations that require non-invasive mounting, the bracket includes a non-drill type option. This version allows for secure cylinder attachment without the need for drilling or altering the mounting surface, preserving the integrity of protected areas.

ENHANCED STABILITY

The robust stainless steel construction provides stable, secure mounting for the cylinder, even in environments with high vibration or movement. This stability is critical for maintaining the integrity of the fire suppression system under various conditions.

ORDERING INFORMATION

Part Number: OCI 10130-FS
OCI 10131-FS

