



Janesville®

V-FORCE®



# V-Force® Turnouts with Glide™ and PBI® MAX

Maximum Comfort — the Difference is in the Details

## V-Force® Turnouts with Glide™ and PBI® MAX

V-Force® takes the best technology from combat and professional sports clothing and applies it to turnout gear. The result is the optimum balance of comfort, mobility and protection.

The V-Force® Coat is more comfortable than common fire fighting coats because it's cut much different. The seams are not at the shoulders and sides, but at the back. This significantly reduces hem rise when you're extending your arms. It also prevents SCBA straps from pushing seams into your body and causing discomfort. Fitted side panels provide a more tailored fit and better mobility.

Always on the cutting-edge, V-Force® is the first turnout model to incorporate Glide™ liners and PBI® MAX outer shells.

### Maximum Comfort — the Difference is in the Details

The new Comfort Collar is ergonomically shaped to improve comfort, interface better with other PPE elements and deliver continuous thermal and moisture protection.



It features a smooth one-piece transition at the shell/liner. There are no bulky seams or hook and loop to rub at the back of your neck. The liner attachment is at the top of the collar to allow for a natural break to use the collar effectively in the up or down position.

## Glide™ Thermal Liners Now Have DuPont™ Kevlar® Filament

Glide™ is the only liner system that features a face cloth with 60% Kevlar® filament.

The low friction properties of Glide™ means added freedom of movement and less working stress for a more comfortable feel in your turnout gear.

- Easy donning and doffing and more comfortable feel.
- Glide™ is a component of the isodri® liner system that has fast drying time, always ready when you are.
- 60% Kevlar® face cloth for increased thermal stability, strength and durability.

## PBI® MAX – Outstanding Protection, Durability and Comfort

The PBI® MAX outer shell offers fire fighters the best combination of break open and thermal protection, the strongest outer shell fabric in the world and the most flexible and comfortable outer shell fabric the fire service has ever seen.

Kevlar® Filament Reinforced Fabrics:

- PBI® MAX incorporates 30% 600 denier DuPont™ Kevlar® filaments, three times more than other PBI® outer shells.
- PBI® MAX exclusively uses 600 denier ballistic DuPont™ Kevlar® filament for increased tear resistance and up to four times greater trap tear strength than competitive PBI® fabrics.
- PBI® MAX is an isodri® outer shell for fast drying time and reduced working weight.

**Try on a set of V-Force® with Glide™ and PBI® MAX, you won't believe the difference.**



Janesville®

V-FORCE®



# LION Janesville® V-Force® Coats

The best technology from combat and sports clothing applied to turnouts



## V-Force® Coats

Just as NASA technology advancements were transitioned into ground breaking protective clothing improvements in the 1970s, LION Janesville's V-Force® turnout gear has embraced innovations from today's military and sports clothing. The result is an intricate set of turnout gear that is designed to flex and bend like the human body.

### Maximum Comfort — the Difference is in the Details

The V-Force® Coat is more comfortable than common fire fighting coats because it's cut much different. The seams are not at the shoulders and sides, but at the back. This significantly reduces hem rise when you're extending your arms. It also prevents SCBA straps from pushing seams into your body and causing discomfort. Fitted side panels provide a more tailored fit and better mobility.

### Natural Arm Movement

The contoured raglan sleeves have a natural shaping. This combines with the V-Fit™ Elbow to promote free and easy movement. The elbow is made up of cutouts, shaped pieces and darts. This reduces bunching and the overall working weight of the coat.

The elbow reinforcements are notched to give you superior thermal and moisture protection without impeding movement. The coat's cuffs extend over the back of your hand for additional thermal protection when reaching or pulling.

### Reduced Working Weight

No detail has been overlooked. The streamlined storm flap reduces thermal buildup and working weight.

The new Comfort Collar and optional throat tab are ergonomically shaped to improve comfort, interface better with other PPE elements and deliver continuous thermal and moisture protection.

It features a smooth one-piece transition at the shell/liner. There are no bulky seams or hook and loop to rub at the back of your neck. The liner attachment is at the top of the collar to allow for a natural break to use the collar effectively in the up or down position.



#### A. Standard V-Force® Coat

- Superior cut delivers superior comfort and mobility.
- Fitted side panels for tailored feel and fit.
- Contoured raglan sleeve shaped like the human arm and bends like your arm to reduce pulling and binding.
- V-Notch® elbow reinforcements keep heat and moisture out. Won't bunch.
- Contoured collar and optional shaped throat tab comfortably interface with SCBA mask.
- LION Ventilated Trim™ provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.



#### B. V-Force® Bi-Swing Coat

- Bi-swing back has inverted pleat in both the outer shell and liner system. It expands as your arms move forward. No tugging or binding at the shoulder. When your arms return to a natural position, the pleat closes so there's no bunching of material.
- All the great comfort and mobility features of the standard V-Force® coat.
- LION Ventilated Trim™ provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.



Janesville®

V-FORCE®



# LION Janesville® V-Force® Pants

The best technology from combat and athletic clothing applied to turnouts



## Advanced Design Delivers Superior Comfort and Mobility

All V-Force® Pants share the superior V-Fit™ Design that reduces bunching of materials in the crotch and delivers the best overall fit of any turnout pants available.

The legs are contoured to match the body and also reduce working weight. The knees are an intricate design of cutouts, shaped pieces and darts to enable free and easy movement. You'll especially notice this when crawling and bending. Nine inches of Semper Dri™ in the lower legs repels water to keep your pants dry and the working weight low.

The elimination of crotch seams reduces tension to give added comfort to your turnout gear. A banded insert runs continuously from the top of the knee of one leg, through the crotch and to the top of the opposite knee. In addition to extending the useful life of your pants, it also provides a more comfortable fit. Increased leg circumference increases mobility.

## V-Force® Pants Styles

**V-Force® High-Back Pants** — Provide the ultimate in thermal protection. A five-inch back panel extends above the waist. A unique hook and loop support pad attaches LION's V-Back™ Suspenders to the pants. Snap tabs fasten the suspenders to the front (V-Back™ High-Back Suspenders are required).

**V-Force® Belted Pants** — Have a traditional waist with belt loops; a two-inch Kevlar® belt with thermoplastic, quick release buckle and suspender buttons to give you the option of using the belt alone or adding suspenders.

**V-Force® Lumbar Pants** — Have a traditional waist and feature the LION Lumbar Support System. This system is integrated into the V-Force® and is orthopedically designed to provide adjustable mechanical support when you're lifting, bending forward, standing or performing emergency rescues.



V-Force® High-Back Pants



V-Force® Lumbar Pants



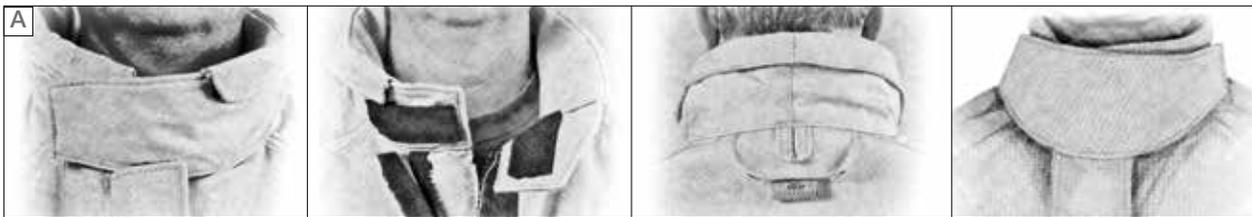
V-Force® Belted Pants



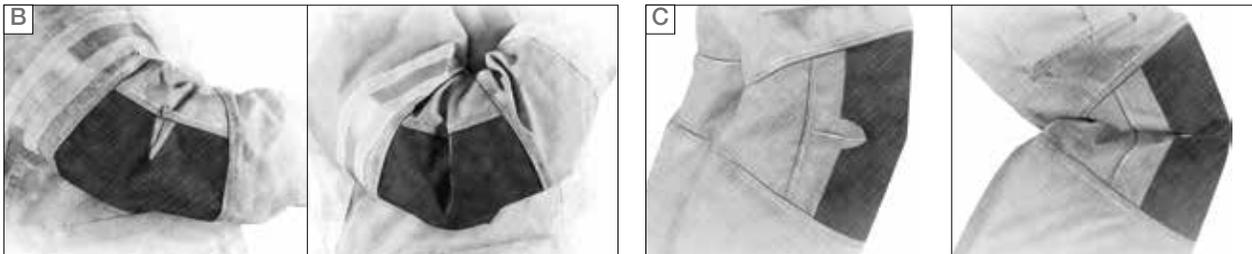
## V-Force® Advanced Features\*

- A. New Comfort Collar and optional throat tab** — Ergonomically shaped to improve comfort, interface better with other PPE elements and deliver continuous thermal and moisture protection.
- B. Elbows** — Elbows include cutouts, shaped pieces and darts to allow natural arm movement without restrictions or tugging.
- C. Legs and knees** — Contoured legs and knees employ cutouts, shaped pieces and darts to enable free and easy movement.
- D. Side panels** — Contoured shaping delivers better fit and mobility, while reducing hem rise. Side panels have a more tailored fit to move with your body during fire fighting activities.

- E. Raglan sleeves** — Shaped like your arm to promote free, unrestricted movement and reduce hem rise.
- F. Superior cut** — Superior cut evenly distributes weight of the garment. Seams are placed to reduce conflicts with SCBA straps that can cause irritation and discomfort.
- G. Radial Inseam** — The elimination of crotch seams reduces tension to give added comfort to your turnout gear. A banded insert runs continuously from the top of the knee of one leg, through the crotch and to the top of the opposite knee. This not only increases comfort, but extends the useful life of your turnout pants.



Contoured Collar and Shaped Throat Tab (optional)



V-Force® Elbows

V-Force® Legs and Knees



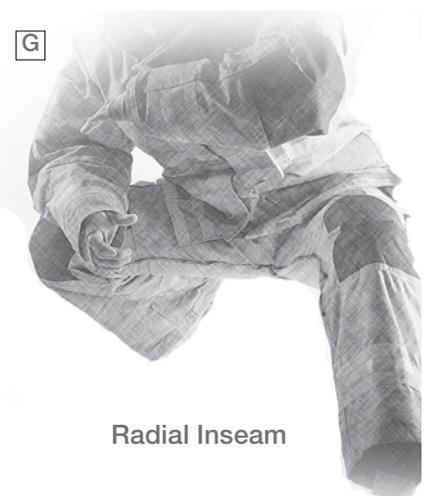
Contoured Side Panels



Raglan Sleeves



Superior Cut



Radial Inseam

\* Other options available.

# V-Force® Design Standard Comfort and Safety Features and Pocket Options

## V-Force® Standard Features\*



**Streamlined Storm Flap**

- A. Streamlined storm flap** — Reduces thermal buildup, bulk and working weight.
- B. Viz-a-V™ trim pattern** — Made with 3M™ Scotchlite™ Reflective Material or Reflexite® Reflective Material for high visibility.
- C. Extended cuff** — Extra length over back of hand for additional thermal protection when extending your arms.
- D. Wrist Shield System™** — Wrist Shield System™ securely seals the wristlet of your turnout coat to your wrist. When you reach, the wristlet and moisture barrier travels with your wrist to minimize exposure to water, steam and flame. Semper Dri™ material is employed in the waterwells of the coat sleeves.



**Viz-a-V™ Trim Pattern**

- E. isodri® Protective Systems** — An engineered system that manages moisture by a combination of materials that block outside sourced water, wick perspiration off the body, and resist storing water inside the thermal barrier. Keeps working weight low and helps guard against steam-related injuries.
- F. Extra thermal protection at yoke** — Yoke of coat employs Semper Dri™ System to reduce water absorption and enhance thermal protection.
- G. Knees with water-resistant FR Lite-N-Dri™ closed-cell cushioning in liner** — Provides additional thermal protection in a high compression area.



**Extended Cuff**

- H. Semper Dri™ System** — Reduces water absorption in pants legs, coat cuffs and yoke to keep your working weight lighter.
- I. Reinforcements** — Protects high-abrasion areas using self-fabric or polymer-coated aramid reinforcements on cuffs, elbows, knees and kick shields.
- J. Liner Inspection System** — Opening allows you to easily examine film side of moisture barrier and inside of thermal liner. Makes Complete Liner Inspections easier and faster
- K. LION Ventilated Trim™** — Provides a conduit for the release of vapor and guards against the potential hazards of trapped moisture.

## V-Force® Pocket Options\*



**Pleated Semi-Bellows Pocket**

- A. Pleated semi-bellows pockets** — Angled flaps and pull tabs make it easy to open and access tools.



**Semi-Bellows Pocket**

- B. Combination semi-bellows and handwarmer pockets** — Angled flaps and pull tabs make it easy to open. Handwarmer opening for convenience and comfort.

\* Other options available.