

WHY **HEN**

DESIGNED **SCIENTIFICALLY**

Designed by fire service veterans and scientists, using advanced fluid mechanics.

SUPERIOR **SUPPRESSION**

Large droplets, wide coverage and long reach for efficient water mapping.

INCREASED **SAFETY**

With products like Turbo, HEN increase safety and ergonomics for firefighters.

WIDELY **ADOPTED**

Trusted by dozens of fire departments, US military and industrial fire departments.

Contact Us

for more details

Email:

sales@alqudra-global.com

Website :

www.alqudra-global.com

HEN

a better way to **fight fire**



Now offering
TURBO back pressure increaser

*Bundle it with popular
BLADE nozzle and HYDRO shutoff*

info@alqudra-global.com

**NFPA
COMPLIANT**



HEN ***TURBO***

WORLD'S FIRST HOSE BACK PRESSURE INCREASER

- Increases hose stiffness and handling.
- Reduces dangerous hose and nozzle whip.
- Knocks out kinks and reduces overall hoseline kinking.
- Improves performance on all hoseline construction packages.

AVAILABLE SIZES

25PSI-1.5"NH, 25PSI-1.5"NPSH
25PSI-2.5"NH, 25PSI-2.5"NPSH

HEN ***HYDRO***

HIGH DURABILITY SHUTOFF WITH GATE-BALL VALVE

- Easier opening and closing.
- Provides improved stream distance and shape when partially closed.
- Large hand bale opening provides improved control.
- All aluminum construction reduces weight and improves balance.

AVAILABLE SIZES

HYDRO 100 SERIES: 1" WATERWAY
HYDRO 138 SERIES: 1 3/8" WATERWAY
HYDRO 200 SERIES: 2" WATERWAY

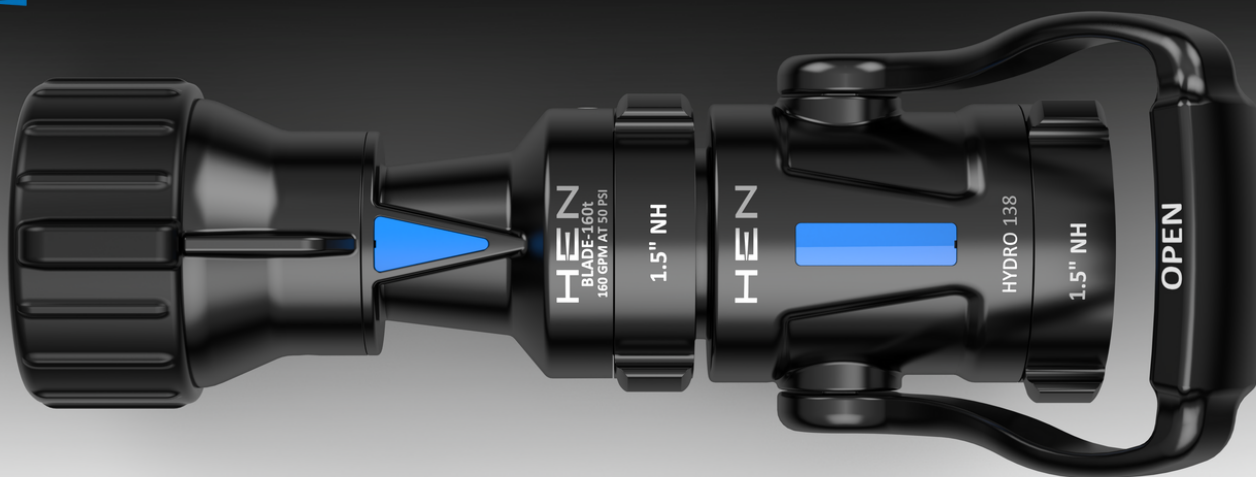
HEN ***BLADE***

WORLD'S FIRST ADJUSTABLE SMOOTHBORE NOZZLE

- Large droplet size.
- Go from a solid tight stream to a solid in-line blade pattern.
- Quarter-turn stream adjustment optimized for ergonomics.
- Delivering Coverage, Cooling and Contraction of Gasses.

AVAILABLE SIZES

20GPM@100PSI, 45GPM@100PSI,
95GPM@100PSI, 160GPM@50PSI,
185GPM@50PSI, 265GPM@50PSI



A better way to fight fire

HEN BLADE- NOZZLES

Adjustable SmoothBore Nozzle



Adjustable SmoothBore nozzle that allows you to go from a solid tight stream to a solid in-line blade pattern

- Solid tight pattern and solid blade pattern
- Optimized placement and droplet size
- Aluminum alloy body for maximum durability
- NFPA compliant

Available in following sizes:

20GPM@100PSI, 45GPM@100PSI, 95GPM@100PSI, 160GPM@50PSI, 185GPM@50PSI and 265GPM@50PSI

High durability shutoff with gate-ball valve, ergonomically designed for superior flow

HEN HYDRO - SHUTOFFS

Gate-Ball valve shutoff

- Lightweight ergonomic design.
- Maximize stream efficiency in baled down operations.
- Aluminum alloy body and gate-ball valve for maximum durability
- NFPA compliant

Available in following sizes:

Hydro 100 series: 1" waterway
Hydro 138 series: 1 3/8" waterway
Hydro 200 series: 2" waterway



BLADE 20

Combination Smoothbore Nozzle



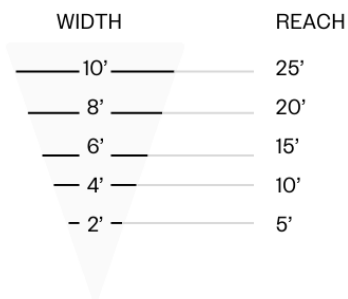
Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 20 gpm | 75 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1 lb | 0.45 kg |
| Length | 5.0 in. | 127 mm |
| Width | 2.5 in. | 64 mm |

Coverage



Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1" NH and 1" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 50 (3.4) | 14 (54) |
| 75 (5.2) | 17 (66) |
| 100 (6.9) | 20 (76) |
| 125 (8.6) | 22 (85) |
| 150 (10.3) | 25 (93) |



For any questions or inquiries:
info@alqudra-global.com

BLADE 45

Combination Smoothbore Nozzle



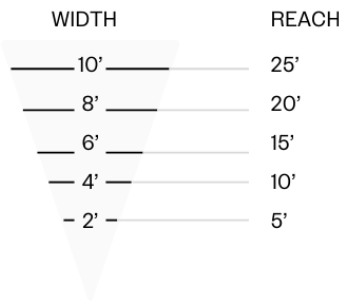
Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 45 gpm | 170 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1 lb | 0.45 kg |
| Length | 5.5 in. | 140 mm |
| Width | 2.5 in. | 64 mm |

Coverage



Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1" NH, 1" NPSH, 1.5" NH, & 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 50 (3.4) | 32 (121) |
| 75 (5.2) | 39 (149) |
| 100 (6.9) | 45 (172) |
| 125 (8.6) | 51 (192) |
| 150 (10.3) | 56 (210) |



BLADE 95

Combination Smoothbore Nozzle



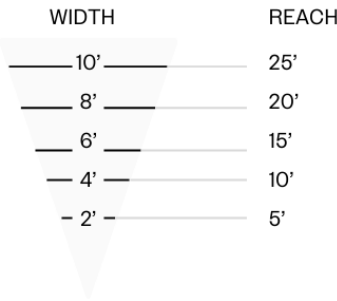
Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 95 gpm | 350 lpm |
| Target Pressure | 100 psi | 7 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.2 lb | 0.54 kg |
| Length | 5.7 in. | 145 mm |
| Width | 2.7 in. | 69 mm |

Coverage



Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 50 (3.4) | 67 (253) |
| 75 (5.2) | 82 (310) |
| 100 (6.9) | 95 (358) |
| 125 (8.6) | 106 (400) |
| 150 (10.3) | 116 (438) |



For any questions or inquiries:
info@alqudra-global.com

BLADE 160

Combination Smoothbore Nozzle



Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 160 gpm | 650 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.7 lb | 0.77 kg |
| Length | 6.6 in. | 168 mm |
| Width | 3.2 in. | 81 mm |

Coverage

| WIDTH | REACH |
|-------|-------|
| 19' | 50' |
| 16' | 40' |
| 12' | 30' |
| 8' | 20' |
| 4' | 10' |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 124 (470) |
| 40 (2.8) | 143 (543) |
| 50 (3.4) | 160 (607) |
| 60 (4.1) | 176 (665) |
| 70 (4.8) | 190 (719) |



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BLADE 185

Combination Smoothbore Nozzle



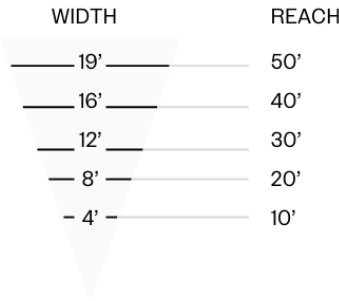
Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|---------|
| Target Flow | 185 gpm | 750 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.7 lb | 0.77 kg |
| Length | 6.6 in. | 168 mm |
| Width | 3.2 in. | 81 mm |

Coverage



Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1.5" NH and 1.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 143 (541) |
| 40 (2.8) | 165 (625) |
| 50 (3.4) | 185 (698) |
| 60 (4.1) | 202 (765) |
| 70 (4.8) | 218 (826) |



HEN

BLADE 265

Combination Smoothbore Nozzle



Overview

The HEN BLADE combination smoothbore nozzle redefines fire attack by combining the reach and penetration of a traditional smoothbore with the versatility of an in-line blade pattern. With a simple quarter turn, firefighters can transition from a tight solid stream to a wide, high-impact blade stream, delivering large water droplets for maximum efficiency, improved cooling, and enhanced control.

Specifications

| | IMPERIAL | METRIC |
|---------------------|----------|----------|
| Target Flow | 265 gpm | 1075 lpm |
| Target Pressure | 50 psi | 4 bar |
| Blade Pattern Angle | 22° | 22° |
| Weight | 1.9 lb | 0.86 kg |
| Length | 7.0 in. | 178 mm |
| Width | 3.4 in. | 86 mm |

Coverage

| WIDTH | REACH |
|-------|-------|
| 19' | 50' |
| 16' | 40' |
| 12' | 30' |
| 8' | 20' |
| 4' | 10' |

Features

- Quarter-turn from wide blade pattern to solid tight pattern
- Hard-coat anodized aluminum construction
- Available with 1.5" NH, 1.5" NPSH, 2.5" NH, & 2.5" NPSH threads
- Full-time swivel
- NFPA 1960/1964 compliant
- 5-Year Warranty

Flow Rates

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 30 (2.1) | 205 (776) |
| 40 (2.8) | 237 (896) |
| 50 (3.4) | 265 (1002) |
| 60 (4.1) | 290 (1098) |
| 70 (4.8) | 313 (1186) |



For any questions or inquiries:
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HYDRO 100 Shutoff



Overview

HYDRO shutoff with 1-inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- Gate-ball design maintains stream quality when baled-down
- Lightweight
- Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1" NH, 1" NPSH, 1.5" NH, and 1.5" NPSH
- Outlet Threads: 1" NH, 1" NPSH, 1.5" NH, and 1.5" NPSH
- Full-time swivel
- NFPA 1964 compliant
- 5 Year Warranty
- Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|---------------------------|---------------|----------------|
| Waterway Size | 1.00 in. | 25 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1" / 1.5" thread) | 1.2 / 1.3 lbs | 0.54 / 0.59 kg |
| Length (1" / 1.5" thread) | 4.7 / 4.7 in. | 1119 / 119 mm |
| Width (1" / 1.5" thread) | 3.5 / 3.5 in. | 89 / 89 mm |
| Height (1" / 1.5" thread) | 4.1 / 4.4 in. | 105 / 112 mm |



HYDRO 138

Shutoff



Overview

HYDRO shutoff with 1.375 inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- Gate-ball design maintains stream quality when baled-down
- Lightweight
- Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1.5" NH, 1.5" NPSH, 2.5" NH, and 2.5" NPSH
- Outlet Threads: 1.5" NH, and 1.5" NPSH
- Full-time swivel
- NFPA 1964 compliant
- 5 Year Warranty
- Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|-----------------------------|---------------|----------------|
| Waterway Size | 1.375 in. | 35 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1.5" / 2.5" thread) | 1.9 / 2.3 lbs | 0.88 / 1.04 kg |
| Length (1.5" / 2.5" thread) | 5.4 / 5.4 in. | 137 / 137 mm |
| Width (1.5" / 2.5" thread) | 4.2 / 4.2 in. | 107 / 107 mm |
| Height (1.5" / 2.5" thread) | 4.9 / 5.4 in. | 124 / 137 mm |



HYDRO 200 Shutoff



Overview

HYDRO shutoff with 2 inch waterway. High durability shutoff with full-ball valve, designed for superior flow performance while minimizing resistance and enhancing firefighter control. The HYDRO shutoff provides superior flow with less waterway turbulence.

Features

- Gate-ball design maintains stream quality when baled-down
- Lightweight
- Hard-coat anodized aluminum body and all-metal ball
- Inlet Threads: 1.5" NH, 1.5" NPSH, 2.5" NH, and 2.5" NPSH
- Outlet Threads: 1.5" NH, and 1.5" NPSH
- Full-time swivel
- NFPA 1964 compliant
- 5 Year Warranty
- Pistol grip available

Specifications

| | IMPERIAL | METRIC |
|-----------------------------|---------------|---------------|
| Waterway Size | 2 in. | 51 mm |
| Rated Pressure | 200 psi | 14 bar |
| Weight (1.5" / 2.5" thread) | 1.9 / 3.6 in. | 0.88 / 1.6 kg |
| Length (1.5" / 2.5" thread) | 5.4 / 5.9 in. | 137 / 150 mm |
| Width (1.5" / 2.5" thread) | 4.2 / 4.7 in. | 107 / 119 mm |
| Height (1.5" / 2.5" thread) | 4.9 / 5.4 in. | 124 / 137 mm |



TURBO 1.5"

Back Pressure Incraser



Overview

The TURBO 1.5" increases the back pressure by an additional 25-30 PSI in the handline stretch for 150-185 GPM nozzles.

Turbocharge the performance of 1.75-inch hose when using a 50 PSI nozzle pressure yielding impressive benefits across all essential metrics, from higher pressure hose to premium low-pressure hose design.

Streamline essential members and handline fire stream development tasks on the fire ground, enhancing suppression and safety.

Features

- Increase hose pressure by 25-30 PSI with 150-185 GPM nozzles
- Increase hose stiffness and handling
- Reduce dangerous hose and nozzle whip
- Hard-coat anodized aluminum construction
- Available with 1" NH and 1" NPSH threads
- NFPA 1960/1964 compliant
- 5-Year Warranty

Specifications

| | IMPERIAL | METRIC |
|----------------|----------|---------|
| Rated Pressure | 200 psi | 14 bar |
| Weight | 0.54 lb | 0.24 kg |
| Length | 2.4 in. | 60 mm |
| Width | 2.5 in. | 64 mm |
| Height | 2.5 in. | 64 mm |

Pressure Drop at Given Flow Rate

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 22 (1.5) | 150 (568) |
| 25 (1.7) | 160 (606) |
| 28 (1.9) | 170 (644) |
| 31 (2.1) | 180 (681) |
| 35 (2.4) | 190 (719) |

TURBO 2.5"

Back Pressure Incraser



Overview

The TURBO 2.5" increases the back pressure by an additional 25-30 PSI in the handline stretch for 250-275 GPM nozzles.

Turbocharge the performance of 2.5-inch hose when using a 50 PSI nozzle pressure yielding impressive benefits across all essential metrics, from higher pressure hose to premium low-pressure hose design.

Streamline essential members and handline fire stream development tasks on the fire ground, enhancing suppression and safety.

Features

- Increase hose pressure by 25-30 PSI with 250-275 GPM nozzles
- Increase hose stiffness and handling
- Reduce dangerous hose and nozzle whip
- Inlet Threads: 2.5" NH, and 2.5" NPSH
- Outlet Threads: 2.5" NH, and 2.5" NPSH
- NFPA 1964 compliant
- 5 Year Warranty

Specifications

| | IMPERIAL | METRIC |
|----------------|----------|---------|
| Rated Pressure | 200 psi | 14 bar |
| Weight | 1.55 lb | 0.70 kg |
| Length | 3.4 in. | 87 mm |
| Width | 3.7 in. | 94 mm |
| Height | 3.7 in. | 94 mm |

Pressure Drop at Given Flow Rate

| PRESSURE PSI (BAR) | FLOW RATE GPM (LPM) |
|--------------------|---------------------|
| 22 (1.5) | 245 (927) |
| 24 (1.7) | 255 (965) |
| 26 (1.8) | 265 (1003) |
| 28 (1.9) | 275 (1041) |
| 30 (2.1) | 285 (1079) |