# LINDOFLAMM ${ }^{\circledR}$ Thermal Engineering 

Tailored Solutions for Every Heating Application

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## All-round offering



BOC's range of LINDOFLAMM special burners has the perfect fit for every heating application.

Our all-round heating solutions for semi- and fully-automated heating processes are tailored to customer requirements and deliver outstanding results. At the heart of each heating installation is the LINDOFLAMM burner. Further components and services - from automatic ignition to monitoring, temperature control and documentation - put the perfect finish on our offering.

Our application engineers provide expert advice and work with customers to develop the right solution every time. They also start up installations and provide training on their correct operation. In addition to these services, we can also advise on and deliver the supporting gas supply system - making BOC the preferred provider for all gas supply and heating needs.

## High-performance burners (acetylene/oxygen)

| Burner <br> type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Handle | Overall length mm | Flame field Ø mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-H-4 | Acetylene | 0.8 | 1.4-1.9 | LF-S-3-H | 375 | 10 | 19324220 |
|  | Oxygen | 2.5-3.5 | 1.6-2.2 |  |  |  |  |
| LF-H-6 | Acetylene | 0.8 | 3.3-4.5 |  | 440 | 16 | 19324221 |
|  | Oxygen | 2.5-4.0 | 3.8-5.2 |  |  |  |  |
| LF-H-8 | Acetylene | 1.0 | 5.0-7.1 |  | 500 | 18 | 19324222 |
|  | Oxygen | 2.5-4.0 | 5.8-8.9 |  |  |  |  |
| LF-H-16 | Acetylene | 1.2 | 12.4-15.9 | LF-S-4-H | 650 | 28 | 19324223 |
|  | Oxygen | 3.5-5.0 | 14.3-18.3 |  |  |  |  |

## Applications

- Heating applications for large workpieces
- Flame straightening of large sheet thicknesses
- Thorough heating of heat wedges
- Fusing flame-sprayed coatings
- Heat-shaping of thick-walled plates, pipes and profiles
- Achieving high temperatures during heating


## Mandatory additional equipment

- Handles, page 13
- Ball valves for burner LF-H-16 (handle LF-S-4-H), see page 16


## Design

- Burner head at $45^{\circ}$ angle with reinforcement between the mixer and feeder shaft
- Gas-cooled burner
- Injector with 0-rings for internal and external tightness
- Brazed components for extra strength


## Extension options

Ball valves on handle for quick opening/closing and reproducible flame adjustment, see page 16

[^0]
## High-performance burners (acetylene/compressed air)

| Burner <br> type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Handle | Overall length mm | Flame field Ø mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-H-1D | Acetylene | 0.6 | 0.4-1.0 | LF-S-2-H | 500 | 13 | 19330000 |
|  | Compressed air | 2.0-4.0 | 3.1-6.6 |  |  |  |  |
| LF-H-2D | Acetylene | 0.6 | 0.8-1.7 |  | 650 | 23 | 19324224 |
|  | Compressed air | 2.0-4.0 | 5.6-11.9 |  |  |  |  |

## Applications

- Pre-heating components before welding and cutting
- Drying the area around a weld seam
- Maintaining interpass temperatures
- Post-heating


## Mandatory additional equipment

- Handles, see page 13


## Design

- Burner head at $45^{\circ}$ angle with reinforcement between the mixer and feeder shaft
- Gas-cooled burner
- Injector with 0-rings for external tightness
- Brazed components for extra strength


## Extension options

Ball valves on handle for quick opening/closing and reproducible flame adjustment, see page 16

[^1]
## Triple-head burners



| Burner type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Number of nozzles | Connecting thread / inch | Handle | Overall length / mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-H-3x2D-K | Acetylene | 0.8-1.0 | 2.9-5.4 | 27 | 3/8" LH | LF-S-2-H or | 600 | 19330005 |
|  | Compressed air | 2.0-4.0 | 20.0-35.0 |  | 3/8" RH | LF-S-2-M |  |  |

## Applications

- Pre-heating up to app. $500^{\circ} \mathrm{C}$
- Drying of welding area
- Maintenance of interpass temperatures
- Flexible system suitable e.g. for round and longitudinal seam pre-heating


## Design

- Angled design with manifold
- Adjustable burner heads
- Injector with 0-ring seals for inner and outer gas tightness
- Gas-cooled burner
- Brazed components for extra strength


## Mandatory additional equipment

- Handle LF-S-2-H or machine shaft LF-S-2-M, see page 13/14


## Extension options

- Ball valves for quick shut-off and easy, repeatable flame adjustment (when using handle), see page 16
- Flow stop safety device, see page 8

[^2]
## Eight-head burners



| Burner type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Number of nozzles | Machine shaft | Connection thread inch | Hose <br> diameter* <br> mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-H-8x2D-K | Acetylene | 0.8-1.0 | 7.2-10.0 | 72 | LF-S-2-M adjusted to higher gas flow | 3/8" LH | 9.5 | 19330006 |
|  | Compressed air | 3.0-5.0 | 47.0-62.5 |  |  | 1/2" RH | 12.5 |  |

**acc. to ISO 3821

## Applications

- Pre-warming up to app. $500^{\circ} \mathrm{C}$
- Pre-and post-heating, suitable in particular for round seams with diameters in excess of 2 m
- Drying of welding area
- Maintenance of interpass temperatures


## Design

- Curved stainless steel manifold, length 800 mm
- Adjustable burner heads
- Injector with 0-ring seals for inner and outer gas tightness
- Gas-cooled burner
- Main components brazed for extra strength


## Extension options

- Flow stop safety device, see page 8

[^3]The operating instructions contain further information about operating LINDOFLAMM burners. Our specialists are always available to provide further information.

## LINDOFLAMM flow stop




Manometer for compressed air monitoring

| Safety device | Burner system maximum consumption | Operating mode | Connection thread inch | Voltage supply | Plug connector | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LINDOFLAMM | LF-H-3x2D-K | Flame detection via ionisation electrode | Input: 3/8" LH | 230V/AC IP 54 | CEE 7/7 | $\overline{19330009}$ |
| flow stop, type | LF-H-8x2D-K |  | outside thread |  | type E+F |  |
| LF-M-FS 2.0 | max. $10 \mathrm{~m}^{3} / \mathrm{h}$ acetylene |  | Output: 3/8" LH |  | (Schuko) |  |
|  |  |  | -cap nut |  |  |  |
| LINDOFLAMM | LF-H-3x2D-K | Flame detection via ionisation electrode | Input: 3/8" LH outside thread Output: 3/8" LH -cap nut | 110V/AC IP 44 | EN 60309 | 19330010 |
| flow stop, type | LF-H-8x2D-K |  |  |  | 16A-4h |  |
| LF-M-FS 2.0 | max. $10 \mathrm{~m}^{3} / \mathrm{h}$ acetylene |  |  |  | $2 \mathrm{P}+\mathrm{E}$ |  |
|  |  |  |  |  |  |  |
| Optional extension: |  |  |  |  |  |  |
| Contact manometer for LINDOFLAMM flow stop | LF-H-3x2D-K <br> LF-H-8x2D-K <br> max. 10bar compressed air | Monitoring of compressed air via contact manometer | 1/4" RH backside | Umax 250Vac, Pmax 30W, 50VA | Switchcraft 761KS17 | 19330011 |

## Applications

- Safety add-on for hand-operated acetylene - compressed air LINDOFLAMM burners with LF-H-2D-K burner heads
- More convenient, efficient and reliable acetylene flame control for operators
- Very fast - acetylene flow automatically cuts off within one second
- Easy plug-and-play installation or retrofitting
- Optional manometer cuts off the acetylene flow as soon as minimum limit value of compressed air is detected


## Design

- Control unit
- Solenoid valve
- Ionisation electrode
- Mounting unit
- Contact manometer for compressed air (optional)


## Lance burners



| Burner type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Number of nozzles | Machine shaft | Overall length mm | Burner height mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-M-16D | Acetylene | 0.8-1.0 | 1.3-2.3 | 16 | LF-S-2-M | 500 | 100 | $\overline{19324226}$ |
| standard nozzle | Compressed air | 2.0-4.0 | 9.0-17.1 |  |  |  |  |  |
| LF-M-33D standard nozzle | Acetylene Compressed air | $\frac{0.8-1.0}{2.0-4.0}$ | $\frac{2.4-4.4}{17.2-31.5}$ | 33 |  | 1010 | 100 | 19324227 |

## Applications

- Stationary pre-heating before welding and cutting
- Drying before welding
- Maintaining interpass temperatures
- Post-heating


## Design

- Elongated construction with exchangeable nozzles
- Nozzles arranged in a row
- Bolted flange connections enable several burner elements to be connected (max. length 2m**)
- Parallel operation via distributors and bridges (max. number of nozzles: 66**)


## Mandatory additional equipment

- Flanges, see page 18
- Feed with mixing chamber, see page 15
- Machine shaft, see page 14


## Extension options

- Optional automation using pilot flame and monitoring elements (flame monitoring, temperature monitoring, data capture systems, etc.)
- Ball valves or solenoid valves for reproducible results
- Gas mixture distributor

[^4]
## Lance burners with ignition nozzles



| Burner type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Number <br> of nozzles | Machine shaft | Overall length mm | Burner height mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-M-16D-I | Acetylene | 0.8-1.0 | 1.3-2.3 | 16 | LF-S-2-M | 500 | 103 | $\overline{19330001}$ |
| ignition nozzle | Compressed air | 2.0-4.0 | 9.0-17.1 |  |  |  |  |  |
| LF-M-33D-I | Acetylene | 0.8-1.0 | 2.4-4.4 | 33 | LF-S-2-M | 1010 | 103 | 19330003 |
| ignition nozzle | Compressed air | 2.0-4.0 | 17.2-31.5 |  |  |  |  |  |

## Applications

## Mandatory additional equipment

- For safe ignition regardless of workpiece length
- Stationary pre-heating before welding and cutting
- Drying before welding
- Maintaining interpass temperatures
- Post-heating


## Design

- Nozzles with flame transfer $180^{\circ}$ arranged in a row
- Elongated construction with exchangeable ignition nozzles
- Bolted flange connections enable several burner elements to be connected (max. length $2 \mathrm{~m}^{* *}$ )
- Parallel operation via distributors and bridges (max. number of nozzles: $66^{* *)}$
- Flanges, see page 18
- Feed with mixing chamber, see page 15
- Machine shaft, see page 14


## Extension options

- Optional automation using pilot flame and monitoring elements (flame monitoring, temperature monitoring, data capture systems, etc.)
- Ball valves or solenoid valves for reproducible results
- Gas mixture distributor
- For in-line operation, see page 18 for connectors for lance burners with ignition nozzles; Y-nozzles to bridge the gap are available on demand

[^5]
## Lance burners - v-shaped




## Applications

- For wider heat input in the welding seam area
- Stationary pre-heating before welding and cutting
- Drying before welding
- Maintaining interpass temperatures
- Post-heating


## Design

- Elongated construction with exchangeable standard nozzles
- Nozzles arranged in V-position
- Bolted flange connections enable several burner elements to be connected (max. length 2m**)
- Parallel operation via distributors and bridges (max. number of nozzles: $66^{* *}$ )


## Mandatory additional equipment

- Flanges, see page 18
- Feed with mixing chamber, see page 15
- Machine shaft, see page 14


## Extension options

- Optional automation using pilot flame and monitoring elements (flame monitoring, temperature monitoring, data capture systems, etc.)
- Ball valves or solenoid valves for reproducible results
- Gas mixture distributor
- $Y$-nozzles to bridge the gap between two lance burners for in-line operation are available on demand

[^6]
## Short lance burners



| Burner type | Gases | Operating pressure / bar | Consumption* $\mathrm{m}^{3} / \mathrm{h}$ | Number <br> of nozzles | Connecting thread inch | Machine shaft | Overall length mm | Burner height mm | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LF-M-8D | Acetylene | 0.8-1.0 | 0.7-1.3 | 8 | 1/2" LH | LF-S-2-M | 240 | 110 | 19324228 |
|  | Compressed air | 2.0-4.0 | 5.3-9.4 |  |  |  |  |  |  |
| LF-M-12D | Acetylene | 0.8-1.0 | 1.0-1.9 | 12 | 1/2" LH |  | 360 | 110 | 19324229 |
|  | Compressed air | 2.0-4.0 | 7.5-13.8 |  |  |  |  |  |  |

## Applications

- Stationary pre-heating before welding and cutting
- Drying before welding
- Maintaining interpass temperatures
- Post-heating


## Design

- Lightweight construction with exchangeable nozzles
- Nozzles arranged in a row
- Combination of several short lances available to cover a large flame field
- Heat shield made of heat-resistant steel


## Mandatory additional equipment

- Feed with mixing chamber, see page 15
- Machine shaft, see page 14


## Extension options

- Optional automation using pilot flame, ignition electrode and monitoring elements (flame monitoring, temperature monitoring, data capture systems, etc.)
- Ball valves or solenoid valves for reproducible results
- Gas mixture distributor

[^7]
## Handles



| Handle with connection for: | Connecting thread inch | Inner $\varnothing$ of hose mm (ISO 3821) | Special burner | Part no. |
| :---: | :---: | :---: | :---: | :---: |
| LF-S-2-H | 3/8" LH | 9.5 | LF-H-1D, LF-H-2D, LF-H-3x2D-K | 19324230* |
|  | 3/8" RH | 9.5 |  |  |
| LF-S-3-H | 3/8" LH | 9.5 | LF-H-4, LF-H-6, LF-H-8 | 19324231* |
|  | 1/4" RH | 6.3 |  |  |
| LF-S-4-H | 1/2" LH | 12.5 | LF-H-16 | 19324232 |
|  | 3/8" RH | 9.5 |  |  |

## Applications

- To adjust the consumption of acetylene-oxygen/ compressed air series LF-H burners


## Design

- Ergonomic design ensures ease of use as well as comfortable, fatigue-free operation
- Furthermore, the sturdy design ensures that the handles have a long life
- The self-tightening radial seals at the inserts guarantee a quick and secure seal


## Extension options

Ball valves on handle for quick opening/closing and a reproducible flame

Mandatory
Ball valves are mandatory when using the LF-H-16 burner with the LF-S-4-H handle, see page 16

## Machine shafts



| Machine shaft for use with: | Connecting thread inch | Inner $\varnothing$ of hose mm (ISO 3821) | Special burner | Area of application (number of nozzles) | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LF-S-2-M | 3/8" LH | 9.5 | LF-M-8D, LF-M-12D, | 8-66 | 19324233 |
|  | 3/8" RH | 9.5 | LF-M-16D, LF-M-33D |  |  |

## Applications

- Adjusting the consumption of LF-M series acetylene-compressed air burners with 8-66 nozzles


## Extension options

Solenoid valves can be used instead of ball valves for automated heating applications

## Design

- Brass machine shaft with integrated compressed air manometer, adjusting valves and ball valves
- The self-tightening radial seals at the inserts guarantee a quick, secure seal


## Feeds with mixing chamber and injector



| Feed | Connecting thread inch | Length mm | External Ø mm | Area of application (number of nozzles) | Part no. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LF-S-2-F1 | 1/2" LH | 300 | 16 | 8-12 | 19324234 |
| LF-S-2-F2 | 1/2" LH | 500 | 16 | 8-12 | 19324235 |
| LF-S-2-F3 | 1/2" LH | 300 | 16 | 13-24 | 19325984 |
| LF-S-2-F4 | 1/2" LH | 500 | 16 | 13-24 | 19325985 |
| LF-S-2-F5 | 1/2" LH | 300 | 16 | 25-41 | 19325986 |
| LF-S-2-F6 | 1/2" LH | 500 | 16 | 25-41 | 19325987 |
| LF-S-2-F7 | 1/2" LH | 300 | 16 | 41-57 | 19325988 |
| LF-S-2-F8 | 1/2" LH | 500 | 16 | 41-57 | 19325989 |
| LF-S-2-F9 | 1/2" LH | 300 | 16 | 58-66 | 19325990 |
| LF-S-2-F10 | 1/2" LH | 500 | 16 | 58-66 | 19325991 |

## Applications

- Using an injector to mix acetylene and compressed air
- Feeding the acetylene-compressed air mixture to the lance, short lance and triple-head burner


## Design

- Injector with 0-rings for external tightness
- Brazed component joints


## Ball valves

| Gases | Connecting thread inch | Nominal size | Handle/machine shaft | Part no. |
| :---: | :---: | :---: | :---: | :---: |
| Acetylene | 3/8" LH | DN 6 | $\begin{aligned} & \text { LF-S-2-H, LF-S-3-H, } \\ & \text { LF-S-5-H, LF-S-6-H } \end{aligned}$ | 19324236 |
| Acetylene | 3/8" LH | DN 10 | LF-S-2-M | 19324237 |
| Acetylene | 1/2" LH | DN 10 | LF-S-4-H | 19324238 |
| Compressed air | 3/8" RH | DN 6 | LF-S-2-H | 19324239 |
| Compressed air | 3/8" RH | DN 10 | LF-S-2-M | 19324240 |
| Oxygen | 1/4"RH | DN 6 | LF-S-3-H, LF-S-5-H | 19324241 |
| Oxygen | 3/8" RH | DN 10 | LF-S-4-H, LF-S-6-H | 19324242 |
| oxygen | 1/4" RH - 3/8" RH <br> handle - hose | DN 6 | LF-S-3-H, LF-S-5-H | 19330007 |

## Applications

- For the quick shutting off of acetylene, oxygen and compressed air
- Reproducible flame adjustment


## Design

- Chrome-plated brass
- Equipped with double-threaded connections in accordance with EN 560


## Elbow joints

| Connecting thread <br> inch | Part no. |
| :--- | :--- |
| $\frac{3 / 8^{\prime \prime} \mathrm{RH}}{\frac{3 / 8^{\prime \prime} \mathrm{LH}}{1 / 2^{\prime \prime} \mathrm{RH}}}$ |  |
| $\frac{1 / 2^{\prime \prime} \mathrm{LH}}{}$ | $\frac{19324243}{19324244}$ |

## Applications

- Connecting feeds with burners
- Tubes with machine shafts or feeds with distributors.


## Design

- The elbow joints are made of brass in accordance with EN 560


## Flanges



End flange


Output flange


Input flange


Lance burners with connector

| Flange | Connecting thread inch | Part no. |
| :---: | :---: | :---: |
| Input flange | 1/2" LH | 19324247 |
| Output flange | 1/2" LH | 19324248 |
| End flange |  | 19324249 |
| Connector standard |  | 19324250 |
| Connector ignition nozzles |  | 19330119 |

Application

- Joining, closing and connecting lance burners

Design

- Made of brass
- Equipped with 0-rings and screws
- Input flanges with simple bore
- Output flanges with threaded hole


## Distributors



150 mm bridge


100 mm input distributor


150 mm input distributor

| Connection distance | Input connecting <br> thread $/$ inch | Output connecting <br> thread $/$ inch | Number of output <br> connectors | Part no. |
| :--- | :--- | :--- | :--- | :--- |



## Applications

Operating round head, lance or short lance burners in parallel

Design

- Brass distributor with or without input connector

[^8]
## Adjusting valves



Acetylene valve
Compressed air valve

| Gases | Connecting thread inch | Nominal size | Max. operating pressure bar | Part no. |
| :---: | :---: | :---: | :---: | :---: |
| Acetylene | 3/8" LH | DN 9 | 1.5 | 19324255 |
| Compressed air | 3/8" RH | DN 9 | 40 | 19324256 |

Application

- Adjusting valve located on the machine shaft for regulating the flow of acetylene and compressed air


## Design

- Adjusting valve with vertical hand wheel and vertical valve cone
- Labelling
- Acetylene: red
- Compressed air: black


## Ignition flame



| Length of ignition pole / mm | Connecting thread inch | Hose length / mm | Inner Ø of hose <br> mm (ISO 3821) | Part no. |
| :---: | :---: | :---: | :---: | :---: |
| 600 | 3/8" LH | 1500 | 6.3 | 19330008* |

## Application

- Safely igniting hand-operated and stationary burners

Design

- Two-part brass ignition flame with adjusting valve
- Mixing principle: acetylene with aspirated air
- With a brazed hook
- Manifold for acetylene supply to main burner system


## Components

- Ignition pole with hook
- A3 nozzle
- Adjusting valve
- Hose
- Manifold
- Flashback arrestor


## All-round support First-class services for LINDOFLAMM special burner applications

Repairs to LINDOFLAMM special burners must only be carried out by competent personnel, authorised by BOC. Please contact BOC personnel to find the authorised specialists in your region.

Your local BOC contact can provide you with information on the purchase of spare parts.

LINDOFLAMM special burner applications can be easily incorporated into customer production processes. Our all-round service package delivers a wide range of benefits for easy installation and operation.

This extensive package comprises a wide range of services including:
$\rightarrow$ Integration management
$\rightarrow$ Installation service
$\rightarrow$ Burner optimisation
$\rightarrow$ Burner maintenance, repairs and service
$\rightarrow$ Targeted support

Further information about LINDOFLAMM can be obtained by visiting boconline.co.uk/lindoflamm


[^0]:    * The consumption values, measured at the burner inlet, are related to the burner's power range. By altering the gas flow rate, the power in the specified range can be adjusted to the corresponding tasks. The consumption data should be noted when constructing the gas supply.
    The operating instructions contain further information about operating LINDOFLAMM burners. Our specialists are always available to provide further information.

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    ** For applications other than this, please contact the thermal engineering department at BOC.

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[^8]:    Lance burners with 150 mm input distributor and 150 mm bridge

