

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5mA).
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



U62W2 PRA5A9
316 Stainless Steel

Standard Materials

- Body and cover : 316L stainless steel with natural finish
- Cover screws : 304 stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 and M6 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: stainless steel or Lamacoid with different color combinations.
- Padlocking facility at left, center, right or any position on selector switches.
- Padlocking facility for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

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Certification and Compliances

◆ ATEX or IECEx Certification

• Certification Type JBe (Stainless Steel)

- Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE:  II2 G
 - Type of Protection: Ex de IIC or Ex demb IIC (depending of the actuator)
 - Temperature Class: T5 to T6
- Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE:  II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C
- Ambient Temperature: -50 °C to +70 °C (empty enclosure)
-20°C or -25°C to +55°C or +60°C depending of the actuator
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IECEx Certificate: LCI 11.0008X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

◆ EURASEC Certification

- EURASEC RU C-FR Г5 05.B.00911

◆ Others Certification ①

- INMETRO Certificate: BVC 11.0418-X

① Inmetro certification available on special request only. Contact your local sales for more information.

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

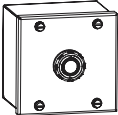
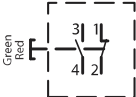
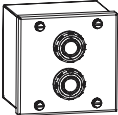
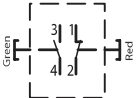
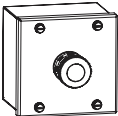
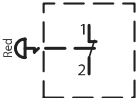
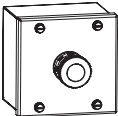
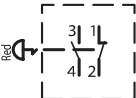

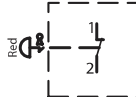
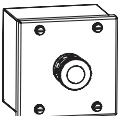
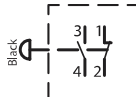
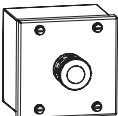
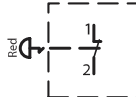
316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 316 L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

| Description/Function | Diagram | Bottom Entry | Weight kg | Volume dm³ | Catalog Number |
|---|---|--------------|-----------|------------|----------------|
| Momentary Push Button | | | | | |
|  Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contact |  | 2 x M20 | 1.2 | 4.3 | U61W2A3 |
| Twin Momentary Push Buttons | | | | | |
|  1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts |  | 2 x M20 | 1.3 | 4.3 | U61W2A5A9 |
| Emergency Stop | | | | | |
|  Red mushroom head push-pull 1NC maintained contact |  | 2 x M20 | 1.2 | 4.3 | U61W2D9 |
|  Red mushroom head push-pull 1NO + 1NC maintained contact |  | 2 x M20 | 1.2 | 4.3 | U61W2D3 |
| Emergency Stop | | | | | |
|  Red mushroom head key release 1NC maintained contact |  | 2 x M20 | 1.2 | 4.3 | U61W2C9 |
| Mushroom Head Push Button | | | | | |
|  Black mushroom head push button 1NO+1NC momentary contacts |  | 2 x M20 | 1.2 | 4.3 | U61W2B3 |
|  Red mushroom head push button 1NC momentary contact |  | 2 x M20 | 1.2 | 4.3 | U61W2R9 |

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

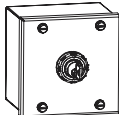
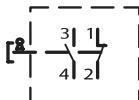
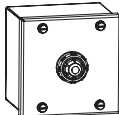
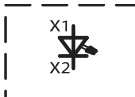
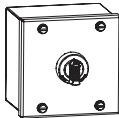
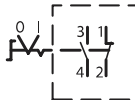
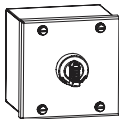
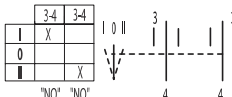
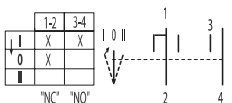
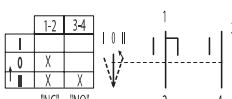
316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 1 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

| Description/Function | | Diagram | Bottom Entry | Weight kg | Volume dm ³ | Catalog Number |
|---|--|---|--------------|-----------|------------------------|----------------|
| Key Push Button | | | | | | |
|  | With key removable in both positions 1NO+1NC maintained contact |  | 2 x M20 | 1.0 | 4.0 | U61W2E3 |
| Pilot Light | | | | | | |
|  | 1x red pilot light ① |  | 2 x M20 | 1.2 | 4.3 | U61W2PR |
| | 1x green pilot light ① | | 2 x M20 | 1.2 | 4.3 | U61W2PG |
| | 1x blue pilot light ① | | 2 x M20 | 1.2 | 4.3 | U61W2PB |
| | 1x yellow pilot light ① | | 2 x M20 | 1.2 | 4.3 | U61W2PY |
| | 1x white pilot light ① | | 2 x M20 | 1.2 | 4.3 | U61W2PW |
| 2-Position Selector Switch | | | | | | |
|  | 2 fixed positions '0 - I' 1NO + 1 NC contacts |  | 2 x M20 | 1.2 | 4.3 | U61W2H3 |
| 3-Position Selector Switch | | | | | | |
|  | 3 fixed positions 'I - 0 - II' 2NO contacts |  | 2 x M20 | 1.2 | 4.3 | U61W2J1 |
| | 3 fixed positions 'I - 0 - II' With spring return from I to 0 1NO + 1NC contacts |  | 2 x M20 | 1.2 | 4.3 | U61W2N3 |
| | 3 positions 'I - 0 - II' With spring return from II to 0 1NO + 1NC contacts |  | 2 x M20 | 1.2 | 4.3 | U61W2M3 |

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Stainless steel Control Stations and Switches

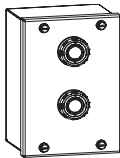
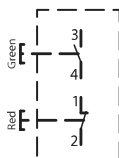
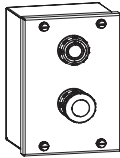
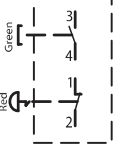
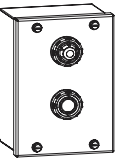
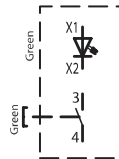
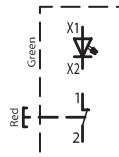

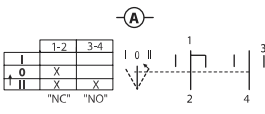
Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 2 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

| Description/Function | | Diagram | Bottom Entry | Weight kg | Volume dm ³ | Catalog Number |
|--|---|---|--------------|-----------|------------------------|----------------|
| Twin Push Button | | | | | | |
|  | 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts |  | 2 x M20 | 1.8 | 4.3 | U62W2A5A9 |
| Push Button + Push-Pull Emergency Stop | | | | | | |
|  | 1 x green push button 'I' with 1NO momentary contact 1 x red mushroom head push-pull emergency button with 1NC maintained contact |  | 2 x M20 | 1.8 | 4.3 | U62W2A5D9 |
| Pilot Light + Push Button | | | | | | |
|  | 1 x green light ① 1 x green push button 'I' with 1NO momentary contact |  | 2 x M20 | 1.8 | 4.3 | U62W2PGA5 |
| | 1 x red light ① 1 x red push button 'O' with 1NC momentary contact |  | 2 x M20 | 1.8 | 4.3 | U62W2PRA9 |
| Ammeter + 3-Position Selector Switch | | | | | | |
|  | 1 x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0-1-3 scale 1 x 3-position selector switch 'I - O - II' With spring return from II to 0 1NO + 1NC contacts |  | 2 x M20 | 1.8 | 4.3 | U62W2VA13M3 |

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

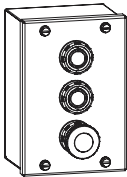
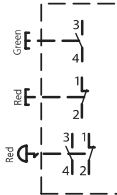
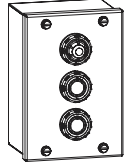
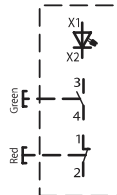
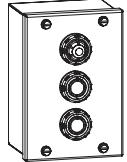
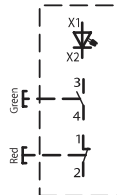
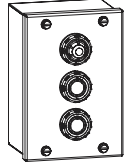
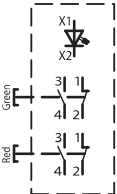
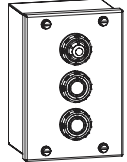
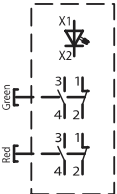
316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Size 2 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

| Description/Function | Diagram | Bottom Entry | Weight kg | Volume dm³ | Catalog Number |
|--|---|--------------|-----------|------------|--------------------|
| Twin Push Buttons + Push-Pull Emergency Stop | | | | | |
|  <p>1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts 1 x red mushroom head push-pull emergency button with 1NO + 1NC contacts</p> |  | 2 x M20 | 1.8 | 4.3 | U62W2A5A9D3 |
| Pilot Light + Twin Push Buttons | | | | | |
|  <p>1 x green pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts</p> |  | 2 x M20 | 1.8 | 4.3 | U62W2PGA5A9 |
|  <p>1 x red pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contact</p> |  | 2 x M20 | 1.8 | 4.3 | U62W2PRA5A9 |
|  <p>1 x green pilot light ① 1 x green push button 'I' with 1NO + 1NC contacts 1 x red push button 'O' with 1NO + 1NC contacts Momentary contacts</p> |  | 2 x M20 | 1.8 | 4.3 | U62W2PGA3A3 |
|  <p>1 x red pilot light ① 1 x green push button 'I' with 1NO + 1NC contacts 1 x red push button 'O' with 1NO + 1NC contacts Momentary contacts</p> |  | 2 x M20 | 1.8 | 4.3 | U62W2PRA3A3 |

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section.

① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Stainless steel Control Stations and Switches

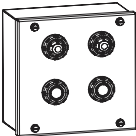
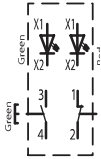
Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22
Gas (G) and Dust (D)

Size 3 316L Control Station

Included: 1 white self-adhesive laminated plastic nameplate, 2x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

| Description/Function | Diagram | Bottom Entry | Weight kg | Volume dm³ | Catalog Number |
|--|---|--------------|-----------|------------|----------------|
| Twin Pilot Lights + Twin Push Buttons | | | | | |
|  |  | 2 x M20 | 2.1 | 10.5 | U63W2PGPRA5A9 |
| 1 x green pilot light ① 1 x red pilot light ① 1 x green push button 'I' with 1NO contact 1 x red push button 'O' with 1NC contact Momentary contacts | | 2 x M25 | 2.1 | 10.5 | U63W4PGPRA5A9 |

Controls

CONTROL STATIONS AND SWITCHES - INCREASED SAFETY

Additional combinations available, please refer to Unicode 2 Series - Customized Control Stations section
① 12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.

Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm.

| Color | Catalog Number |
|------------------------|----------------|
| White (black letters) | UNPW |
| Yellow (black letters) | UNPY |
| Red (white letters) | UNPR |
| Blue (white letters) | UNPB |
| Black (white letters) | UNPN |
| Green (white letters) | UNPG |

Inserts for Push Button — Set of 5

| Marking | Color | Catalog Number |
|------------|--------|----------------|
| (unmarked) | Green | UIAG |
| (unmarked) | Red | UIAR |
| (unmarked) | Yellow | UIAY |
| (unmarked) | White | UIAW |
| (unmarked) | Blue | UIAB |
| (unmarked) | Black | UIAN |
| ON | Green | UIA01 |
| OFF | Red | UIA02 |
| START | Green | UIA03 |
| STOP | Red | UIA04 |
| MARCHE | Green | UIA05 |
| ARRET | Red | UIA06 |
| I | Green | UIA07 |
| O | Red | UIA08 |

Inserts for Illuminated Push Button — Set of 5

| Marking | Color | Catalog Number |
|------------|--------|----------------|
| (unmarked) | Green | UILG |
| (unmarked) | Red | UILR |
| (unmarked) | Yellow | UILY |
| (unmarked) | White | UILW |
| (unmarked) | Blue | UILB |
| ON | Green | UIL01 |
| OFF | Red | UIL02 |
| START | Green | UIL03 |
| STOP | Red | UIL04 |
| MARCHE | Green | UIL05 |
| ARRET | Red | UIL06 |
| I | Green | UIL07 |
| O | Red | UIL08 |

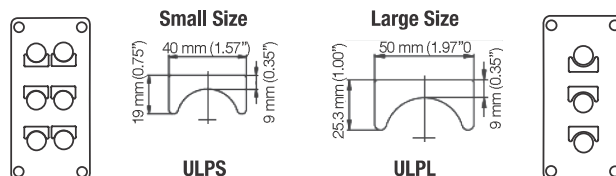
Spare Key

For all key-operated buttons.

| Description | Catalog Number |
|------------------------|----------------|
| Spare key type 4 A 185 | SK4A185 |

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



| Text | Catalog Number | |
|---------------------|----------------|---------|
| | Small | Large |
| Blank (set of 10) | ULPS | ULPL |
| ON | ULPSA01 | ULPLA01 |
| OFF | ULPSA02 | ULPLA02 |
| FORWARD | ULPSA03 | ULPLA03 |
| REVERSE | ULPSA04 | ULPLA04 |
| JOG | ULPSA05 | ULPLA05 |
| RUN | ULPSA06 | ULPLA06 |
| START | ULPSA07 | ULPLA07 |
| STOP | ULPSA08 | ULPLA08 |
| UP | ULPSA09 | ULPLA09 |
| DOWN | ULPSA10 | ULPLA10 |
| FAST | ULPSA11 | ULPLA11 |
| SLOW | ULPSA12 | ULPLA12 |
| RAISE | ULPSA13 | ULPLA13 |
| LOWER | ULPSA14 | ULPLA14 |
| OPEN | ULPSA15 | ULPLA15 |
| CLOSE | ULPSA16 | ULPLA16 |
| LOW | ULPSA17 | ULPLA17 |
| HIGH | ULPSA18 | ULPLA18 |
| TEST | ULPSA19 | ULPLA19 |
| RESET | ULPSA20 | ULPLA20 |
| EMERGENCY STOP | ULPSA21 | ULPLA21 |
| MARCHE | ULPSA22 | ULPLA22 |
| ARRET | ULPSA23 | ULPLA23 |
| ARRET D'URGENCE | ULPSA24 | ULPLA24 |
| HAUT | ULPSA25 | ULPLA25 |
| BAS | ULPSA26 | ULPLA26 |
| O—I | ULPSH01 | ULPLH01 |
| ON—OFF | ULPSH02 | ULPLH02 |
| START—STOP | ULPSH03 | ULPLH03 |
| STOP—START | ULPSH04 | ULPLH04 |
| HAND—AUTO | ULPSH05 | ULPLH05 |
| MANU—AUTO | ULPSH06 | ULPLH06 |
| FORWARD—REVERSE | ULPSH07 | ULPLH07 |
| REMOTE—LOCAL | ULPSH08 | ULPLH08 |
| MARCHE—ARRET | ULPSH09 | ULPLH09 |
| I—O—II | ULPSJ01 | ULPLJ01 |
| OFF—O—ON | ULPSJ02 | ULPLJ02 |
| START—NORMAL—STOP | ULPSJ03 | ULPLJ03 |
| HAND—OFF—AUTO | ULPSJ04 | ULPLJ04 |
| MANU—O—AUTO | ULPSJ05 | ULPLJ05 |
| FORWARD—OFF—REVERSE | ULPSJ06 | ULPLJ06 |
| LOCAL—REMOTE—AUTO | ULPSJ07 | ULPLJ07 |
| LOCAL—O—REMOTE | ULPSJ08 | ULPLJ08 |
| MARCHE—NORMAL—ARRET | ULPSJ09 | ULPLJ09 |

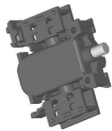

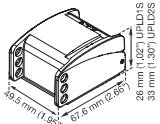

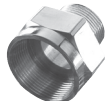



Unicode® 2 Series Stainless steel Control Stations and Switches

Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

| Description | | Catalog Number |
|---|---|----------------|
|  | Additional Contacts | |
| | Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum | |
| | 1NO contact | UCB5R |
| | 1NC contact | UCB9R |
|  | Yellow Guard | |
| | Mushroom head protection for emergency stop | 098657 |
|  | Padlockable Guard | |
| | Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm maximum (not supplied) | |
| | For push button and rotary actuator | UPLD1S |
| | For mushroom head actuator | UPLD2S |
|  | Cable Gland Exe | |
| | For unarmored cable Exe - IP66 - in polyamide entry thread seal | |
| | M20 (capacity 6.5–14.5 mm) | 095605 |
| | For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal) | |
| | Braid and Tape type: | |
| | M20 (inner: 6.4–14.0/outer: 12.5–20.9 mm) | 20E1FX5 |
| | Single Wired Armor (SWA): | |
| | M20 (inner: 6.4–14.0/outer: 12.5–20.9 mm) | 20E1FW5 |
|  | Adaptors | |
| | Exd/Exe - IP66 in nickel plated brass (without entry thread seal) | |
| | Male M20 - Female 1/2" NPT | 737DM2T15 |
| | Male M20 - Female 3/4" NPT | 737DM2T25 |
|  | Entry Thread Seal | |
| | M20 (in white nylon) | 20ETS2 |
|  | Combination Drain and Breather | |
| | Exe - IP66 - supplied with entry thread seal and locknut | |
| | M20 male thread in Polyamide | DBE20P |
| | M20 male thread in Brass | DBE20B |
| | M20 male thread in Stainless Steel | DBE20S |
|  | Feed-Thru Earth Stud Terminal | |
| | Exe - IP66 – supplied with weatherproof seal and green/yellow earth conductor — 300 mm length | |
| | M20 with M5 earth and 2.5 mm² conductor | PREESTM20 |

Shaded catalog numbers are normally stocked items. All other items are made to order.

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Increased Safety

316L Stainless Steel

Zone 1 and 2 – 21 and 22

Gas (G) and Dust (D)

Dimensions in Millimeters

