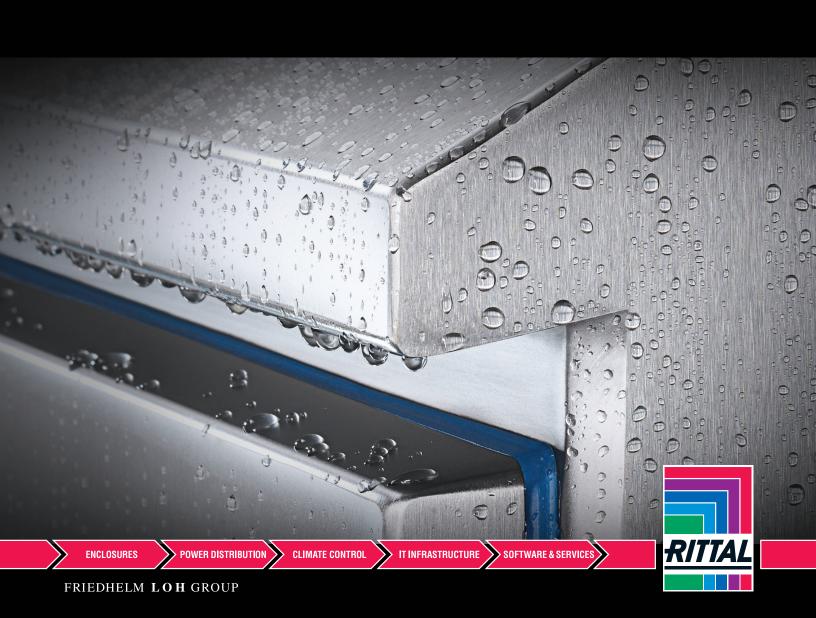
# Rittal - The System.

Faster – better – everywhere.

# Hygienic Design Enclosures

Superior Cleanability



# Rittal – The System.

# Faster – better – everywhere.

Hygienic design compact enclosures can be wall mounted with the HD system accessories.

Hygienic design large system

enclosures and accessories.

Hygienic design control and monitoring, consoles, and support arms.

# One-stop shop for multiple solutions and optimum processes

Different enclosure solutions are needed for the various locations inside a food and beverage production facility. From enclosures that can withstand frequent washdowns on the factory floor to the IT infrastructure in the data center, Rittal has the right solution to protect your sensitive controls and electronic equipment.

# Edge Data Center IT infrastructure for max

IT infrastructure for maximum computing power with short latencies, located close to the production.

# Climate control outside the hygiene zone

Rittal Chillers can supply the air/water heat exchangers in the hygiene zone and the LCP in the data center with the required cooling water.

### **Air to Water Heat Exchangers**

keep your systems cool using in-house chilled water or Rittal water chillers. No more clogged filters or replacing dirty filters.

> Hygienic Design Compact Enclosures and Terminal Boxes

can be machine mounted with the HD system accessories.

# **TS8 Enclosure System**

Enclosures and climate control solutions for outside the washdown or hygienic zone.

Available in Stainless Steel or Carbon Steel.

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

# Hygienic standards for high productivity and reliability

"Rittal – The System." stands for cleverly thought-out system solutions for hygienic production in the food industry. Particularly in open processes, where the resistance of the gasket to detergents and disinfectants is crucial, it is vital for the production plant to be equipped with optimized enclosures, terminal boxes and command panels.



# The Rittal Hygienic Design for food safety is based on:

#### **European standards and directives**

- EN 1672-2-2009-07 Food machinery/General design principles/ Part 2: Hygiene requirements
- EN ISO 14 159:2008-07 Safety of machinery Hygiene requirements for the design of machinery
- EN 16001:2009-06 Energy management to improve energy efficiency
- Machinery directive 2006/42/EC binding
- Document 13 EHEDG guideline on the hygienic design of apparatus for open processes, prepared in collaboration with 3-A and NSF International

### **EU** regulations

- 852/2004 on the hygiene of raw materials and food products
- 853/2004 specific hygiene rules for food of animal origin
- 854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption
- 1935/2004 on materials and articles intended to come into contact with food

Decide for yourself what is important.

# Rittal Hygienic Design boosts operational hygiene

- Reduces the use of C&D agents
- Optimizes cleaning results
- Ensures higher productivity
- Minimizes risks
- Increases energy efficiency (CO2 footprint)

All terminal boxes and compact enclosures are cULus listed.
The DGUV test certificates are valid for the following products:

- NV 16201 terminal boxes HD
- NV 13091 compact enclosures HD
- NV 17040 air/water heat exchangers HD

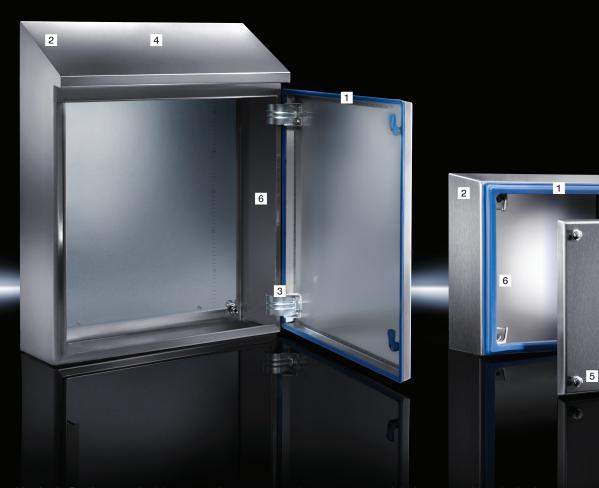






# **Cleanliness assured**

Terminal boxes and compact enclosures in Hygienic Design (HD) are key elements in the design of open processes in the food industry and clean rooms due to their ease of cleaning and inspection. Compatible accessories such as wall spacer brackets and HD-compatible cable glands complete the range. If you have specific requirements, "Rittal – The System." is sure to have the right solution.



Hygienic Design terminal boxes and compact enclosures are crucial elements when designing open processes in the food and beverage industry and for hygienic zones where ease of cleaning is crucial.

- Silicone gasket: Highly resistant to aggressive detergents, hot water, high pressure, and can be easily replaced in minutes
- 2 Inclined roof: Prevents pooling of liquids, and ensures that surfaces are readily visible
- Slot-free design No hollow spaces between the enclosure and door
- 4 Fine brushed surface finish makes it easier to clean: Fully sealed enclosures with a uniform 400 grain size brushed finish for a uniform surface roughness of < 8 μm</p>

- 5 Easy-to-clean lock system: Tailored to the requirements of the food and consumables industry
- 6 Interior installation:
  - Attachment points for fitting interior installation rails, for individual installation in the depth with HD compact enclosures
  - HD terminal boxes can accommodate support rails and KL mounting plates, thanks to the flexible
     6.25 mm pitch pattern of installation holes

# Silicone gasket

- The joint free silicon gasket seals the entire perimeter of the door
- Easy to replace and inspect
- Guides and fixes the lid to the screw fasteners
- Compliant with FDA Guideline 21 CFR 177.2600

### Interior configuration

- Hole pitch of 6.25 mm for greater flexibility
- KL support rails and mounting plates can be fitted directly

## Hinges and gasket

- Hinges that are inside the sealing zone create an exceptionally easy-clean design on the outside
- The joint free silicon gasket seals the entire perimeter of the door
- Installed gaskets are easy to replace
- No external cavity between enclosure and door
- Gasket dyed blue to clearly distinguish it from food particles

#### Screw fastener

- Captive
- With external gasket
- Hexagon shape for perfect cleanliness

### Lock and lock insert

- External parts made of stainless steel
- Material and shape allow easy and reliable cleaning

#### **External Angles**

- The roof angled forwards by 30° on compact enclosures prevents objects from being deposited on it
- All-around tilt for terminal boxes
- Enclosure: 3°
- Lid: 10°
- Is easily inspected
- Allows fluids to drain off rapidly











5 Rittal Hygienic Design Rittal Hygienic Design Rittal Hygienic Design

# Hygienic Design: Terminal Boxes



- All four sides have 3° slope from back to front
- Captive fastners keep them from falling out when removing cover

#### Material:

- Enclosure and cover: Stainless steel 1.4301 (AISI 304) 1.5mm
- Mounting bracket: Sheet steel, zinc-plated, passivated, 2.0mm
- Screw plug: Stainless steel
- Gasket: Silicone, compliant with FDA Guideline 21 CFR 177.2600

#### Surface finish:

- Enclosure and cover: Brushed grain 400, peak-to-valley height <0.8μm
- Gasket: Blue, dyed (RAL 5010)

#### Protection category IP to IEC 60 529:

- IP 66 - IPX 9

- IP 69K

#### Protection category IP to DIN 40 050-9:

#### Protection category NEMA: - NEMA 13

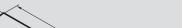
- NEMA 4X
- NEMA 3R

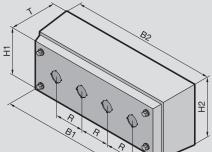
#### Supply includes:

- Enclosure of all-around solid construction
- Mounting bracket (pre-assembled)
- Gasket and screw plug (supplied loose)

#### Approvals:

- UL
- cUL





- All four sides have 3° slope from back to front
- Captive fasteners keep them from falling out when removing cover

#### Material:

- Enclosure and cover: Stainless steel 1.4301 (AISI 304) 1.5mm
- Mounting bracket: Sheet steel, zinc-plated, passivated, 2.0 mm
- Screw plug: Stainless steel
- Gasket: Silicone, compliant with FDA Guideline 21 CFR 177.2600

#### Surface finish:

- Enclosure and cover: Brushed, grain 400, peak-to-valley height
- Gasket: Blue, dyed (RAL 5010)

#### Protection category IP to IEC 60 529:

- IP 66

– IP 69K

- IPX 9

#### Protection category IP to DIN 40 050-9:

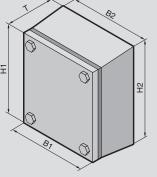
#### Protection category NEMA:

- NEMA 13 - NEMA 4X
- NEMA 3R

#### Supply includes:

- Enclosure of all-around solid construction
- Cover
- Mounting bracket
- (pre-assembled) - Gasket and screw plug
- (supplied loose)

#### Approvals: - UL - cUL



# **Push Buttons**

|                     | Packs of | in.    | mm.    | in.   | mm.    | in.    | mm.    | in.    | mm.    | in.   | mm.    | PG |
|---------------------|----------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--------|----|
| Height (front) (H1) |          | 4      | 100    | 4     | 100    | 4      | 100    | 4      | 100    | 6     | 160    |    |
| Height (rear) (H2)  |          | 5      | 122    | 5     | 122    | 5      | 122    | 5      | 122    | 7     | 182    |    |
| Width (front) (B1)  |          | 4      | 100    | 6     | 160    | 9      | 220    | 11     | 280    | 9     | 220    |    |
| Width (rear) (B2)   |          | 5      | 122    | 7     | 182    | 10     | 242    | 12     | 302    | 10    | 242    |    |
| Depth (T)           |          | 4      | 90     | 4     | 90     | 4      | 90     | 4      | 90     | 4     | 90     |    |
| Model No.           | 1 pc(s). | 1681   | .600   | 1682  | 2.600  | 1683   | 3.600  | 1684   | 1.600  | 1686  | 6.600  |    |
| Model Name          |          | PB0122 | 25HD14 | PB022 | 25HD14 | PB0322 | 25HD14 | PB0422 | 25HD14 | PB062 | 25HD24 |    |
| Weight lbs.   kg    |          | 2.16   | 0.98   | 2.87  | 1.3    | 3.57   | 1.62   | 4.37   | 1.98   | 4.67  | 2.12   |    |

#### Accessories

| HD wall spacer bracket | see page | 21 |
|------------------------|----------|----|
| HD cable gland         | see page | 26 |

# Depth: 3 - 5" (80 - 120 mm), Height-Rear: 7 - 13" (172 - 327mm)

|                     | Packs of | in.   | mm.   | PG |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Height (front) (H1) |          | 6     | 150   | 6     | 150   | 8     | 200   | 8     | 200   | 8     | 200   | 12    | 300   |    |
| Height (rear) (H2)  |          | 7     | 172   | 7     | 177   | 9     | 227   | 9     | 227   | 9     | 227   | 13    | 327   |    |
| Width (front) (B1)  |          | 6     | 150   | 6     | 150   | 8     | 200   | 12    | 300   | 16    | 400   | 16    | 400   |    |
| Width (rear) (B2)   |          | 7     | 172   | 7     | 177   | 9     | 227   | 13    | 327   | 17    | 427   | 17    | 427   |    |
| Depth (T)           |          | 3     | 80    | 5     | 120   | 5     | 120   | 5     | 120   | 5     | 120   | 5     | 120   |    |
| Model No.           | 1 pc(s). | 1670  | 0.600 | 1671  | .600  | 1672  | 2.600 | 1674  | .600  | 1675  | 5.600 | 1676  | 6.600 |    |
| Model Name          |          | HD060 | 603N4 | HD060 | 605N4 | HD080 | 805N4 | HD081 | 205N4 | HD081 | 605N4 | HD121 | 605N4 |    |
| Weight lbs.   kg    |          | 4     | 1.7   | 5     | 2.2   | 7     | 3     | 9     | 4     | 11    | 5     | 13    | 5.9   |    |

#### Accessories

| HD wall spacer bracket  |           |          | see page |          |          |          |          |  |  |  |  |
|-------------------------|-----------|----------|----------|----------|----------|----------|----------|--|--|--|--|
| Mounting plates         | 1 pc(s).  | 1560.700 | 1561.700 | 1562.700 | 1563.700 | 1564.700 | 1568.700 |  |  |  |  |
| Support rails TS 35/7.5 | 10 pc(s). | 2314.000 | 2314.000 | 2315.000 | 2316.000 | 2317.000 | 2317.000 |  |  |  |  |
| HD cable gland          |           |          | see page |          |          |          |          |  |  |  |  |

# Hygienic Design: Single Door Enclosures



#### Design:

- Roof sloped 30° back to front.

  Overhanging roof shields top of
- Overhanging roof shields top of gasket
- Gasket fills gap between door and enclosure body
- Internal hinges

#### Material:

- Enclosure and cover: Stainless steel 1.4301 (AISI 304) 1.5mm
- Mounting bracket: Sheet steel, zinc-plated, passivated,
- 2.0 mm
- Screw plug: Stainless steelGasket: Silicone, compliant with

FDA Guideline 21 CFR 177.2600

#### Surface finish:

- Enclosure and cover: Brushed, grain 400, peak-to-valley height
   0.8 μm
- Gasket: Blue, dyed (RAL 5010)

# Protection category IP to IEC 60 529:

- IP 66 – IPX 9
- Protection category IP to
- **DIN 40 050-9:** - IP 69K

#### **Protection category NEMA:**

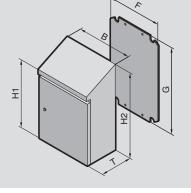
- NEMA 13
- NEMA 4X – NEMA 3R

#### Supply includes:

- Enclosure of all-around solid construction
- Door with inserted gasket
- Door hinged on the right,
   may be swapped to the left
- may be swapped to the leMounting plate

### Approvals:

– UL – cUL



# Depth: 6 - 8" (155 - 210mm), Height: 14 - 17" (350 - 430mm)

|                       | Packs of | in.   | mm.        | in.   | mm.   | in.   | mm.   | in.   | mm.   |
|-----------------------|----------|-------|------------|-------|-------|-------|-------|-------|-------|
| Height (front) (H1)   |          | 14    | 350        | 17    | 430   | 17    | 430   | 17    | 430   |
| Height (rear) (H2)    |          | 17    | 437        | 22    | 546   | 22    | 549   | 22    | 549   |
| Width (B)             |          | 9     | 220        | 12    | 310   | 15    | 390   | 32    | 810   |
| Depth (T)             |          | 6     | 155        | 8     | 210   | 8     | 210   | 8     | 210   |
| Mounting plate height |          | 11    | 275        | 14    | 355   | 14    | 355   | 14    | 355   |
| Mounting plate width  |          | 6     | 162        | 10    | 250   | 13    | 330   | 30    | 750   |
| Model No.             | 1 pc(s). | 1302  | 2.600      | 1304  | .600  | 1306  | 6.600 | 1314  | 1.600 |
| Model Name            |          | HD120 | HD120806N4 |       | 208N4 | HD151 | 508N4 | HD153 | 208N4 |
| Weight lbs.   kg      |          | 14.55 | 6.6        | 24.25 | 11    | 32.41 | 14.7  | 56.22 | 25.5  |

# Depth: 8" (210mm), Height: 22 - 37" (430 - 810mm)

|                       | Packs of | in.   | mm.    | in.        | mm.   | in.   | mm.   | in.   | mm.    | in.   | mm.    |
|-----------------------|----------|-------|--------|------------|-------|-------|-------|-------|--------|-------|--------|
| Height (front) (H1)   |          | 22    | 550    | 22         | 550   | 26    | 650   | 26    | 650    | 32    | 810    |
| Height (rear) (H2)    |          | 26    | 669    | 26         | 669   | 30    | 769   | 30    | 769    | 37    | 929    |
| Width (B)             |          | 15    | 390    | 20         | 510   | 15    | 390   | 24    | 610    | 24    | 610    |
| Depth (T)             |          | 8     | 210    | 8          | 210   | 8     | 210   | 8     | 210    | 8     | 210    |
| Mounting plate height |          | 19    | 475    | 19         | 475   | 23    | 575   | 23    | 575    | 29    | 730    |
| Mounting plate width  |          | 13    | 330    | 18         | 450   | 13    | 330   | 22    | 550    | 22    | 550    |
| Model No.             | 1 pc(s). | 1305  | 5.600  | 1307       | 7.600 | 1308  | 3.600 | 1310  | 0.600  | 4000  | 0.012  |
| Model Name            |          | HD201 | 1508N4 | HD202008N4 |       | HD241 | 508N4 | HD242 | 2408N4 | HD302 | 2408N4 |
| Weight lbs.   kg      |          | 38.58 | 17.5   | 43.43      | 19.7  | 39.46 | 17.9  | 60.41 | 27.4   | 70.55 | 32     |

# Hygienic Design: Single Door Enclosures

# Depth: 12" (300 mm), Height: 17 - 32" (430 - 810mm)

|                       | Packs of | in.   | mm.        | in.   | mm.   | in.   | mm.    | in.   | mm.   |
|-----------------------|----------|-------|------------|-------|-------|-------|--------|-------|-------|
| Height (front) (H1)   |          | 17    | 430        | 26    | 650   | 26    | 650    | 32    | 810   |
| Height (rear) (H2)    |          | 24    | 601        | 32    | 821   | 32    | 821    | 39    | 981   |
| Width (B)             |          | 24    | 610        | 24    | 610   | 32    | 810    | 24    | 610   |
| Depth (T)             |          | 12    | 300        | 12    | 300   | 12    | 300    | 12    | 300   |
| Mounting plate height |          | 14    | 355        | 23    | 575   | 23    | 575    | 29    | 735   |
| Mounting plate width  |          | 22    | 550        | 22    | 550   | 30    | 750    | 22    | 550   |
| Model No.             | 1 pc(s). | 1320  | 0.600      | 1311  | .600  | 1315  | 5.600  | 1312  | 2.600 |
| Model Name            |          | HD152 | HD152412N4 |       | 412N4 | HD243 | 3212N4 | HD302 | 412N4 |
| Weight lbs.   kg      |          | 47.84 | 21.7       | 68.34 | 31    | 85.98 | 39     | 83.78 | 38    |

# Depth: 12" (300 mm), Height: 32 - 43" (810 - 1100mm)

|                       | Packs of | in.        | mm.   | in.    | mm.   | in.   | mm.    | in.    | mm.   |
|-----------------------|----------|------------|-------|--------|-------|-------|--------|--------|-------|
| Height (front) (H1)   |          | 32         | 810   | 37     | 950   | 41    | 1050   | 43     | 1100  |
| Height (rear) (H2)    |          | 39         | 981   | 44     | 1120  | 48    | 1221   | 50     | 1270  |
| Width (B)             |          | 30         | 760   | 37     | 940   | 32    | 810    | 37     | 940   |
| Depth (T)             |          | 12         | 300   | 12     | 300   | 12    | 300    | 12     | 300   |
| Mounting plate height |          | 29         | 735   | 34     | 871   | 38    | 955    | 40     | 1021  |
| Mounting plate width  |          | 28         | 705   | 35     | 879   | 29    | 739    | 35     | 879   |
| Model No.             | 1 pc(s). | 4000       | 0.014 | 1330   | 0.600 | 1316  | 6.600  | 1331   | .600  |
| Model Name            |          | HD303012N4 |       | HD363  | 612N4 | HD403 | 3212N4 | HD423  | 612N4 |
| Weight lbs.   kg      |          | 74.96      | 34    | 132.28 | 60    | 132.5 | 60.1   | 148.81 | 67.5  |

# Depth: 12 - 18" (300 - 450mm), Height: 49 - 62" (1250 - 1575mm)

|                       | Packs of | in.        | mm.   | in.    | mm.   | in.    | mm.   | in.    | mm.   |
|-----------------------|----------|------------|-------|--------|-------|--------|-------|--------|-------|
| Height (front) (H1)   |          | 49         | 1250  | 50     | 1270  | 62     | 1575  | 61     | 1550  |
| Height (rear) (H2)    |          | 56         | 1421  | 57     | 1440  | 69     | 1745  | 71     | 1804  |
| Width (B)             |          | 32         | 810   | 37     | 940   | 37     | 940   | 36     | 910   |
| Depth (T)             |          | 12         | 300   | 12     | 300   | 12     | 300   | 18     | 450   |
| Mounting plate height |          | 45         | 1155  | 47     | 1191  | 59     | 1496  | 59     | 1505  |
| Mounting plate width  |          | 29         | 739   | 35     | 879   | 35     | 879   | 33     | 840   |
| Model No.             | 1 pc(s). | 1317       | 7.600 | 1332   | 2.600 | 1333   | 3.600 | 1334   | 1.600 |
| Model Name            |          | HD483212N4 |       | HD483  | 612N4 | HD603  | 612N4 | HD603  | 618N4 |
| Weight lbs.   kg      |          | 156.53     | 71    | 168.65 | 76.5  | 276.02 | 125.2 | 285.06 | 129.3 |

| Accessories                     |          |          | PG |
|---------------------------------|----------|----------|----|
| HD wall spacer bracket          |          | see page | 21 |
| HD cable gland                  |          | see page | 26 |
| HD hinge                        | 2 pc(s). | see page | 20 |
| Rails for interior installation | 4 pc(s). | see page | 24 |
| HD T-handle                     | 1 pc(s). | see page | 20 |
| HD cam lock                     |          | see page | 19 |
| HD pressure release             |          | see page | 21 |

# Hygienic Design: Junction Boxes



#### Design:

- Roof sloped 30° back to front.
- Overhanging roof shields top of gasket
- Gasket fills gap between door and enclosure body
- Internal hinges

#### Material:

- Enclosure and cover: Stainless steel 1.4301 (AISI 304) 1.5mm
- Mounting bracket: Sheet steel, zinc-plated, passivated,
- 2.0 mm
- Screw plug: Stainless steelGasket: Silicone, compliant with

FDA Guideline 21 CFR 177.2600

#### Surface finish:

- Enclosure and cover: Brushed, grain 400, peak-to-valley height
   0.8 μm
- Gasket: Blue, dyed (RAL 5010)

# Protection category IP to IEC 60 529:

– IP 66 – IPX 9

# Protection category IP to DIN 40 050-9:

– IP 69K

#### Protection category NEMA:

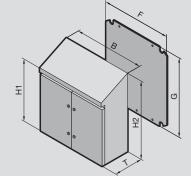
- NEMA 13 – NEMA 4X
- NEMA 3R

#### Supply includes:

- Enclosure of all-around solid construction
- Door with inserted gasket
- Door hinged on the right, may be swapped to the left
- Mounting plate

#### Approvals: - UL

- cUL



#### Material:

- Enclosure and cover: Stainless steel 1.4301 (AISI 304)
- Seal: Silicone, compliant with FDA Guideline 21 CFR 177.2600

#### Confess finish

#### Surface finish:

- Enclosure and cover: Brushed, grain 400, peak-to-valley height
   0.8 µm
- Seal: Blue, dyed (RAL 5010)

# Protection category IP to IEC 60 529:

\_ ID 66

# Protection category IP to DIN 40 050-9:

- IP 69K

# Protection category NEMA: - NEMA 13

- NEMA 4X
- INCIVIA 4
- NEMA 3R

#### Supply includes:

- Roof angled forwards by 3°
- Enclosure of all-around solid construction
- Door with inserted seal
- Door hinged on the right,
   may be swapped to the left

# Approvals:

– UL – cUL



12

# Depth: 16" (400mm), Height: 41 - 49" (1050 - 1250mm)

|                       | Packs of | in.        | mm.   | in.        | mm.   | PG |
|-----------------------|----------|------------|-------|------------|-------|----|
| Height (front) (H1)   |          | 41         | 1050  | 49         | 1250  |    |
| Height (rear) (H2)    |          | 50         | 1277  | 58         | 1477  |    |
| Width (B)             |          | 40         | 1010  | 40         | 1010  |    |
| Depth (T)             |          | 16         | 400   | 16         | 400   |    |
| Mounting plate height |          | 37         | 945   | 46         | 1175  |    |
| Mounting plate width  |          | 37         | 945   | 37         | 945   |    |
| Model No.             | 1 pc(s). | 131        | 8.600 | 1319       | 9.600 |    |
| Model Name            |          | HD404016N4 |       | HD484016N4 |       |    |
| Weight lbs.   kg      |          | 1810       | 821.1 | 204        | 92.5  |    |

| Accessories                     |          |          |    |  |  |  |  |  |  |
|---------------------------------|----------|----------|----|--|--|--|--|--|--|
| HD wall spacer bracket          |          | see page | 21 |  |  |  |  |  |  |
| HD cable gland                  |          | see page | 26 |  |  |  |  |  |  |
| HD hinge                        | 2 pc(s). | see page | 20 |  |  |  |  |  |  |
| Rails for interior installation | 4 pc(s). | see page | 24 |  |  |  |  |  |  |
| HD T-handle                     | 1 pc(s). | see page | 20 |  |  |  |  |  |  |
| HD cam lock                     |          | see page | 19 |  |  |  |  |  |  |
| HD pressure release             |          | see page | 21 |  |  |  |  |  |  |

# Depth: 12 - 18" (300 - 450mm), Height: 49 -62" (1250 - 1575mm)

|                     | Packs of | in.   | mm.   | in.   | mm.   | in.   | mm.   | in.   | mm.    | PG |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|--------|----|
| Height (front) (H1) |          | 8.6   | 219   | 11.4  | 290   | 8.7   | 220   | 8.7   | 220    |    |
| Height (rear) (H2)  |          | 9     | 229   | 11.9  | 302   | 8.7   | 220   | 8.7   | 220    |    |
| Width (B)           |          | 8.1   | 205   | 12    | 305   | 16.1  | 460   | 28    | 710    |    |
| Depth (T)           |          | 8.3   | 210   | 10.1  | 255   | 8.4   | 210   | 8.4   | 210    |    |
| Model No.           | 1 pc(s). | 4000  | 0.021 | 4000  | 0.022 | 4000  | 0.031 | 4000  | 0.032  |    |
| Model Name          |          | HD090 | 808H4 | HD111 | 210H4 | HD091 | 808H4 | HD092 | 2808H4 |    |
| Weight lbs.   kg    |          | 10    | 4.5   | 18    | 8.2   | 38    | 17.2  | 83    | 37.6   |    |

| Accessories                     |          |          | PG |
|---------------------------------|----------|----------|----|
| HD wall spacer bracket          |          | see page | 21 |
| HD cable gland                  |          | see page | 26 |
| HD hinge                        | 2 pc(s). | see page | 20 |
| Rails for interior installation | 4 pc(s). | see page | 24 |
| HD T-handle                     | 1 pc(s). | see page | 20 |
| HD cam lock                     |          | see page | 19 |
| HD pressure release             |          | see page | 21 |

# Hygienic control and monitoring

Command panels and printer enclosures play a key role in the decentralized control and monitoring of open processes in the food and beverage industry. Their functional design means that standard commercially available PC components such as printers, monitors, and label printers are easily and securely integrated into the production process. Can be used together or separately for machine controls, monitoring, programming, creating kiosks, and other applications.



# Silicone gasket

- The joint free silicon gasket seals the entire perimeter of the door
- Easy to replace and inspect
- Compliant with FDA Guideline 21 CFR 177.2600
- Gasket dyed blue to clearly distinguish it from food particles

### **Easy monitoring**

- Large visible area with inset and sealed polycarbonate window in the door
- Screwed-fastened mounting plate with holes for VESA 75 and 100 connection
- Attachment of monitors of up to 24"

### **User-friendly design**

- Enclosure tilted forwards by 3° to allow liquids to drain off reliably whilst cleaning
- for the support of keyboards during production
- Component shelves with telescopic slides for easy integration of computers or e.g. label printers
- Interior installation rails allow the installation of additional component shelves

### **Modular combination**

- Connection component for combining a command panel and a printer enclosure into a complete
   PC enclosure
- Integral drilled holes with a diameter of 40 mm for easy cable entry with connectors









# Hygienic Design: Production Data Cabinet

# Hygienic Design: Fire Extinguisher Enclosure



#### Material:

- Stainless steel 1.4301 (AISI 304) Enclosure: 1.5 mm Door: 2.0 mm
- Lock inserts: Stainless steel DIN 40 050-9: 1.4301 (AISI 304)
- Gasket: Silicone, compliant with FDA Guideline 21 CFR 177.2600

#### Surface finish:

- Brushed, grain 400,
- $R_{\Delta} < 0.8 \, \mu m$

- Gasket: Blue, dyed (RAL 5010)
- Viewing window: polycarbonate

#### Protection category IP to IC 60 529:

- Enclosure bottom: IP 66

- Enclosure top: IP 66

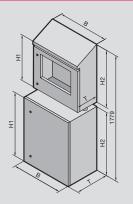
- Protection category IP to
- Enclosure top: IP 59K - Enclosure bottom: IP 69K

#### Console supply includes:

- Roof angled forwards by 30°
- Door with integrated polycarbonate pane for monitor; compartment with screw-fastened mounting plate with holes for VESA connection 75 and 100
- Mounting plate height-adjustable for screens up to 24"

#### Pedestal supply includes:

- Roof angled forwards by 3°, suitable as a support rest or for keyboard installation
- Component shelf spray-finished, pull-out and height-adjustable with side punched rails



- Roof angled forwards by 30°

#### Benefits:

- Hygienic, hose-proof storage of fire extinguishers
- Time and cost savings thanks to
- simple, effective cleaning options - Fire extinguisher is easily removed
- with one hand thanks to the T-handle
- Quick inventory check with the integral viewing door
- Additional uses include storage of first aid kits and defibrillators

#### Material:

- Enclosure and door: Stainless steel 1.4301 (AISI 304)
- Handle and lock: Stainless steel
- 1.4301 (AISI 304) - Viewing window: Polycarbonate
- Gasket: Silicone, compliant with FDA Guideline 21 CFR 177.2600
- Surface finish:
- Enclosure and door: Brushed, grain 400, peak-to-valley height < 0.8 μm
- Gasket: Blue, dyed (RAL 5010)

#### Protection category IP to IEC 60 529:

- IP 66

Protection category IP to

#### DIN 40 050-9:

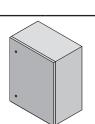
- IP 59K

# Supply includes:

- Enclosure of all-around solid construction
- Door with viewing window and inserted gasket
- Interchangeable door hinge
- T-handle with 3-point lock system

# HD production data cabinet, modular





|                     | Packs of | in.  | mm.   | in.  | mm.   | PG |
|---------------------|----------|------|-------|------|-------|----|
| Height (front) (H1) |          | 27   | 692   | 34   | 863   |    |
| Height (rear) (H2)  |          | 33   | 848   | 35   | 888   |    |
| Width (B)           |          | 32   | 810   | 32   | 810   |    |
| Depth (T)           |          | 10   | 266   | 20   | 496   |    |
| Model No.           | 1 pc(s). | 4000 | 0.062 | 4000 | 0.006 |    |
| Weight lbs.   kg    |          | 73   | 33.2  | 119  | 54.2  |    |

#### Accessories

| HD keyboard support  | 1 pc(s). | see page | 22 |
|--|----------|----------|----|
| HD wall spacer bracket                                       |          | see page | 21 |
| HD hinge   | 2 pc(s). | see page | 20 |
| HD cable gland   |          | see page | 26 |
| HD connection components (for combining enclosures together) | 1 pc(s). | see page | 21 |
| HD T-handle  | 1 pc(s). | see page | 20 |
| HD flap  | 1 pc(s). | see page | 22 |
| HD leveling feet   |          | see page | 19 |

# Fire extinguisher enclosure HD

|                       | Packs of | in.      | mm.  | in.      | mm. | PG |
|-----------------------|----------|----------|------|----------|-----|----|
| Height (front) (H1)   |          | 26       | 650  | 34       | 863 |    |
| Height (rear) (H2)    |          | 30       | 769  | 35       | 888 |    |
| Width (B)             |          | 12       | 300  | 32       | 810 |    |
| Depth (T)             |          | 8        | 210  | 20       | 496 |    |
| Viewing window width  |          | 5        | 120  | 7        | 190 |    |
| Viewing window height |          | 19       | 482  | 26       | 670 |    |
| Model No.             | 1 pc(s). | 4000.073 |      | 4000.075 |     |    |
| Weight lbs.   kg      |          | 30       | 13.5 | 49       | 22  |    |

### Accessories

| HD wall spacer bracket | see page | 21 |
|------------------------|----------|----|
| HD hinge               | see page | 20 |

# Air/Water Heat Exchangers Hygienic Design



An easy-to-clean enclosure climate control solution is now available for hygiene-critical production zones in the food and beverage industry.

- Hygienic design simplifies cleaning procedures and guarantees food safety
- Protection category IP 56/59 if correctly fitted suitable for high-pressure and steam-jet cleaning
- Enclosure made from 1.4301 (AISI 304) stainless steel with the roof tilted forwards by 30°
- Water connections made from stainless steel 1.4301 (AISI 304)
- Suitable for use in the food industry to DIN EN 1672-2:2009



# Hygienic Design: Air/Water Heat Exchanger



Air/water heat exchanger for hygienically sensitive production zones in the food and beverage industry – the optimum addition to the Rittal Hygienic Design range. The cleaning-friendly design reduces the risk of contamination and ensures food safety.

#### Benefits:

- Easy-to-clean, hygienic design
- A roof tilt of 30° prevents objects from being deposited on it, and allows liquids to run off quickly.
- All-around external, replaceable silicone gasket prevents the accumulation of dirt between the enclosure and the air/water heat exchanger.

#### Material:

 Enclosure and cover: Stainless steel 1.4301 (AISI 304)

#### Surface finish:

Enclosure: Brushed, grain 400, peak-to-valley height < 0.8 µm</li>

# Protection category IP to IEC 60 529:

– IP 56/59

Protection category NEMA:
- NEMA 4X

#### Cooling medium:

- Water (see internet for specifications)

### Supply includes:

- Fully wired ready for connection (plugin terminal strip)
- Drilling template
- Sealing and assembly parts

#### Note:

 To achieve a protection category of IP 66/59 to IEC 60 529, the ingress of leakage air through the condensate discharge opening must be completely prevented.

# HD Air / Water Heat Exchanger

| Total cooling output L35 W10, 200 i/h (kW)                                  |                                      | 2047 B                    | TU (0.6)     | 3412 [                   | BTU (1)                   |  |
|---|--------------------------------------|---------------------------|--------------|--------------------------|---------------------------|--|
| Total cooling output L35 W10, 400 i/h (kW)                                  |                                      | 2217 BTU (0.65)           |              | 4095 BTU (1.2)           |                           |  |
| Temperature control   | Thermostat-controlled magnetic valve | 1                         | •            | 1                        | •                         |  |
| Power consumption Pel 50/60 Hz W  |                                      | 36                        | /37          | 83                       | /85                       |  |
| Rated operating voltage V, ~, HZ  |                                      | 230, 1                    | ~, 50/60     | 230, 1                   | ~, 50/60                  |  |
|   |                                      | in.                       | mm.          | in.                      | mm.                       |  |
| Height  |                                      | 21                        | 526          | 39                       | 982                       |  |
| Width   |                                      | 9                         | 220          | 8                        | 215                       |  |
| Depth   |                                      | 4                         | 100          | 4                        | 100                       |  |
| Rated current max. A  |                                      | 0.16 / 0.14               |              | 0.38 / 0.47              |                           |  |
| Pre-fuse A  |                                      | :                         | 2            |                          | 4                         |  |
| Operating temperature range   |                                      | +34°F+158°F               | (+1°C+70°C)  | +34°F+158°F (+1°C+70°C)  |                           |  |
| Setting range   |                                      | +68°F+140°F               | (+20°C+60°C) | +68°F+140°F (+20°C+60°C) |                           |  |
| Water inlet temperature   |                                      | +34°F+86°F                | (+1°C+30°C)  | +34°F+86°F (+1°C+30°C)   |                           |  |
| Water connection  | G 3/8" external thread               | 1                         | •            |                          | •                         |  |
| Permissible operating pressure (p.max.) bar                                 |                                      | 14-145 PSI (1-10)         |              | 14-145 PSI (1-10)        |                           |  |
| Air throughout of fans (unimpeded air flow), Internal circuit 50/60 HZ m³/h |                                      | 164 / 182 CFM (280 / 310) |              | 400 / 432 CF             | 400 / 432 CFM (680 / 735) |  |
| Model No.   |                                      | 3214.700                  |              | 321                      | 5.700                     |  |
| Weight lbs.   kg  |                                      | 13                        | 6            | 31                       | 14                        |  |

# Hygienic Design: Accessories



### HD leveling feet

For HD system enclosure and HD compact enclosure.

#### **Benefits**

Minimizes cleaning time thanks to fully covered permanently sealed threads

- Compensation of floor inclines up to an angle of 10° thanks to flexible base
- Baying can even be achieved on sloping floors,

## thanks to a large leveling range

- Design to EHEDG standards

#### Material

- Stainless steel 1.4301 (AISI 304)

#### Load capacity:

- Max. 7000 N static per leveling foot

#### Supply includes:

Assembly parts and seals



### HD leveling feet

| Design           | Packs of | Without ba | ase mount | With base mount |           |  |
|------------------|----------|------------|-----------|-----------------|-----------|--|
| Thread           |          | М          | 12        | M12             |           |  |
|                  |          | in.        | mm.       | in.             | mm.       |  |
| Adjustment range |          | 4.8 — 6.9  | 122 — 175 | 4.8 — 6.9       | 122 — 175 |  |
| Model No.        | 4 pc(s). | 4000       | 0.240     | 4000            | ).250     |  |



### **HD** cam lock

Options to replace current HD enclosure lock.

#### **Applications**

- In case a different contour is required or an option with metal tongue, please use 9980.111 to replace the standard lock that comes with your HD enclosure
- To replace the standard lock, please use 5050.613

### Material:

- Stainless steel



### HD cam lock

|           | Packs of |          |          |
|-----------|----------|----------|----------|
| Model No. | 1 pc(s). | 9980.111 | 5050.613 |



## **HD** enclosure key

For HD cam lock.

#### Not

 Enclosure, case, and lock systems are supplied as standard with matching keys

### HD enclosure key

|           | Packs of |         |
|-----------|----------|---------|
| Model No. | 1 pc(s). | 2549.00 |

# Hygienic Design: Accessories

### **HD** bit

for universal key 2549.500.

#### HD bit

|           | Packs of | Without key lock |
|-----------|----------|------------------|
| Model No. | 1 pc(s). | 2549.510         |

# **HD T-handle**

For easy opening without a key. May be exchanged in all enclosures with cam lock.

#### Material:

- Stainless steel 1.4301 (AISI 304)



| Design    | Packs of | Without key lock | With key lock |
|-----------|----------|------------------|---------------|
| Model No. | 1 pc(s). | 4000.065         | 4000.067      |

### **HD** hinge

To be used in exchange in HD enclosures with internal hinges.

### Material:

- Stainless steel 1.4301 (AISI 304)

#### Supply includes:

- Assembly parts

#### HD hinge

|           | Packs of |          |
|-----------|----------|----------|
| Model No. | 2 pc(s). | 4000.130 |







# Hygienic Design: Accessories



# **HD** wall spacer bracket

- Creates space for cleaning behind the enclosure - Shorter assembly times by eliminating the need
- for an all-round seal - Improved hygiene by avoiding inaccessible dead spaces or gaps between the enclosure wall
- Rated UL Type 4X and IP69

#### Material:

- Stainless steel 1.4301 (AISI 304)

#### Supply includes:

- Assembly parts and seals

- Depending on the size of the enclosure, up to 4 wall spacer brackets are required to ensure sufficiently stable wall mounting

### HD wall spacer bracket

|                       | Packs of | in.             | mm.  | in.          | mm. |
|-----------------------|----------|-----------------|------|--------------|-----|
| Height                |          | 2               | 50.8 | 1.9          | 50  |
| Design specifications |          | no pass through |      | pass through |     |
| Model No.             | 1 pc(s). | 9957.334        |      | 4000.100     |     |



# **HD** connection components

For combining HD command panels (4000.062) and HD printer enclosures (4000.064) into one PC enclosure.

- Console: Stainless Steel 1.4301 (AISI 304)

#### Supply includes:

**Technical Specifications:** 

Approvals:
- UL Type 4X

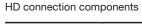
- IP 66 / IP69

- Connection thread M12 X 1.5

pressure difference of 70 mbar

- Air permeability up to 60 liters / hour with a

- 2 reinforcement plates for enclosure, top
- 4 reinforcement plates for enclosure, bottom (2 for the roof, 2 for the attachment of leveling feet or supporting structure)
- 2 spacer supports with drilled hole Ø 40 mm for cable entry, height 50/45.8 mm



|           | Packs of |          |
|-----------|----------|----------|
| Model No. | 1 pc(s). | 4000.066 |



### **HD** pressure release

The integrated sealing membrane in pressure relief plugs largely prevents these pressure differences and the build-up of condensate, as well as protecting against the penetration of moisture from outside.

#### Supply includes:

Lock Nut

- Sheet steel 1.4301 (AISI 304)

#### HD pressure release

|           | Packs of |          |
|-----------|----------|----------|
| Model No. | 1 pc(s). | 4000.300 |

# Hygienic Design: Accessories

## **HD** keyboard support

To support standard keyboards, including water

#### Material:

- Stainless steel 1.4301 (AISI 304)

#### Supply includes:

- Spacer support to the enclosure

#### HD keyboard support

|                       | Packs of | in.      | mm. |
|-----------------------|----------|----------|-----|
| Width                 |          | 23       | 573 |
| Depth                 |          | 10       | 250 |
| Contact surface width |          | 22       | 570 |
| Contact surface depth |          | 7        | 190 |
| Model No.             | 1 pc(s). | 4000.072 |     |



### **HD** flap

For rapid access e.g. in order to change the

#### Material:

- Sheet steel 1.4301 (AISI 304)

### Supply includes:

- T-handle
- Silicon gasket
- Hinges and cam lock



### HD hinge

|           | Packs of |          |
|-----------|----------|----------|
| Model No. | 1 pc(s). | 4000.068 |

# Hygienic Design: Accessories





# **Hose-proof hood**

To increase the protection category

For fan-and-filter units/outlet filters. Easy clean-

thanks to exterior silicone gasket compliant with FDA Guideline 21 CFR 177.2600.

#### Material:

- Stainless steel
- Silicone

| To fit Model No. | W x H x D in. (mm)                        | Protection category   | Packs of | Model No. |
|------------------|---|---|----------|-----------|
| 3237             | 5.9" x 9" x 1.5"<br>(150 x 230 x 40)      | NEMA 1<br>NEMA 12<br>NEMA 3<br>NEMA 3R                      | 1 pc(s). | 3237.080  |
| 3238             | 6.9" x 9.6" x 2.1"<br>(176 x 245 x 55)    | NEMA 1<br>NEMA 12<br>NEMA 3<br>NEMA 3R<br>NEMA 4<br>NEMA 4X | 1 pc(s). | 3238.080  |
| 3239             | 9.1" x 12.9" x 2.1"<br>(233 x 330 x 55)   | NEMA 1<br>NEMA 12<br>NEMA 3<br>NEMA 3R<br>NEMA 4<br>NEMA 4X | 1 pc(s). | 3239.080  |
| 3240/3241        | 11.1" x 15.3" x 3.3"<br>(282 x 390 x 85)  | NEMA 1<br>NEMA 12<br>NEMA 3<br>NEMA 3R<br>NEMA 4<br>NEMA 4X | 1 pc(s). | 3240.080  |
| 3243/3244        | 13.7" x 18.8" x 4.3"<br>(350 x 480 x 110) | NEMA 1<br>NEMA 12<br>NEMA 3<br>NEMA 3R<br>NEMA 4<br>NEMA 4X | 1 pc(s). | 3243.080  |
| 3245             | 13.7" x 18.8" x 6.2"<br>(350 x 480 x 160) | NEMA 1<br>NEMA 12<br>NEMA 3                                 | 1 pc(s). | 3245.080  |

NEMA 3R

Protection category IP to IEC 60 529:

filter with filter mat

- IP 56 when fitted over fan-and-filter unit/outlet

# Hygienic Design: Accessories

### Rails for interior installation

For HD compact installation

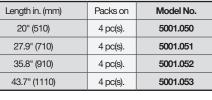
For mounting on the existing threaded bolts. With TS system punchings on three sides.

#### Material:

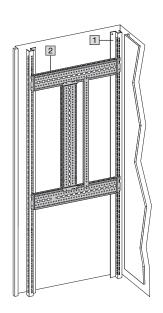
- Sheet steel, zinc-plated

# Supply includes: - Assembly parts

| Length in. (mm) | Packs on | Model No. |
|-----------------|----------|-----------|
| 20" (510)       | 4 pc(s). | 5001.050  |
| 27.9" (710)     | 4 pc(s). | 5001.051  |
| 35.8" (910)     | 4 pc(s). | 5001.052  |
| 43.7" (1110)    | 4 pc(s). | 5001.053  |

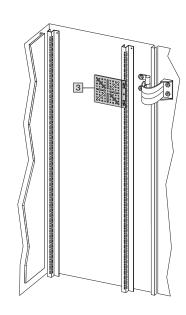






#### Interior installation door

| interior installa | uon door |                      |                      |
|-------------------|----------|----------------------|----------------------|
| Enclosure         | 1        | 1                    |                      |
|                   |          |                      |                      |
| Model No.         |          | Model No.            |                      |
| 1316.600          | 5001.052 | 5001.050             | 5001.050             |
| 1317.600          | 5001.053 | 5001.051<br>5001.050 | 5001.051<br>5001.050 |
|                   |          | •                    | •                    |

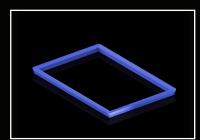


#### Interior installation door

| erior installat                  |                                 |  |                         |
|----------------------------------|---------------------------------|--|-------------------------|
| Enclosure                        | Rails for interior installation | TS punched section with mounting flange 17 x 73 mm | 3<br>Mounting<br>plates |
| Model No.                        | Model No.                       | Model No.  |                         |
| 1308.600<br>1310.600<br>1315.600 | 5001.050                        | -  | -                       |
| 1316.600                         | 5001.052                        | 8612.130<br>(only on<br>lock side)                 | 8612.400<br>8612.410    |
| 1317.600                         | 5001.053                        | 8612.130<br>(only on<br>lock side)                 | 8612.400<br>8612.410    |

# Hygienic Design: Replacement Gaskets

# Hygienic Design: Cable Gland



# **Replacement Gaskets**

| Spare Gasket | Fits Enclosure Model No. |
|--------------|--------------------------|
| 5050.631     | 1302.600                 |
| 5050.855     | 1304.600                 |
| 5050.630     | 1306.600                 |
| 5050.623     | 1314.600                 |
| 5050.856     | 1305.600                 |
| 5050.628     | 1307.600                 |
| 5050.629     | 1308.600                 |
| 5050.626     | 1310.600                 |
| 5050.627     | 1320.600                 |
| 5050.857     | 1311.600                 |
| 5050.622     | 1315.600                 |
| 5050.858     | 1312.600                 |
| 5050.625     | 1316.600                 |
| 5050.624     | 1317.600                 |
| 5050.688     | 1318.600                 |
| 5050.669     | 1319.600                 |
|              |                          |

### **HD** cable gland

### Applications:

- Food and beverage production
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

#### Benefits:

- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms
- Much easier to clean, making it cost effective, compared with conventional cable glands
- EMC version enables cable shield bonding

#### Material:

- Lock nut: Stainless steel 1.4305 (AISI 303)
- Gasket: Conforms to FDA 21 CFR 177.2600

#### Protection category IP to DIN 40 050-9:

#### Supply Includes (per pack):

- 5 cable glands
- 5 lock nuts



#### Metric Version

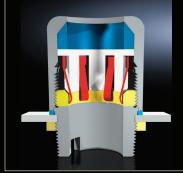
| Size           | Packs of | M12 X 1.5   |         | M16 X 1.5   |        | M20 X 1.5         |        | M25 X 1.5   |         |
|----------------|----------|-------------|---------|-------------|--------|-------------------|--------|-------------|---------|
|                |          | in.         | mm.     | in.         | mm.    | in.               | mm.    | in.         | mm.     |
| Cable diameter |          | 0.12 - 0.26 | 3 — 6.5 | 0.20 - 0.39 | 5 — 10 | 0.24 - 0.47       | 6 — 12 | 0.47 - 0.67 | 12 — 17 |
| Model No.      | 5 pc(s). | 2410        | .001    | 2410.011    |        | 2410.011 2410.021 |        | 2410.031    |         |

#### Metric EMC Version

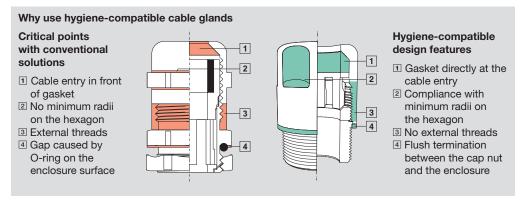
| Size           | Packs of | M16 X 1.5   |        | M20 X 1.5   |        | M25 X 1.5   |         |
|----------------|----------|-------------|--------|-------------|--------|-------------|---------|
|                |          | in.         | mm.    | in.         | mm.    | in.         | mm.     |
| Cable diameter |          | 0.20 - 0.39 | 5 — 10 | 0.24 - 0.47 | 6 — 12 | 0.47 — 0.67 | 12 — 17 |
| Model No.      | 5 pc(s). | 2410.111    |        | 2410.121    |        | 2410.131    |         |

#### MetricNPT Version

| Size           | Packs of | NPT 1/4"    |         | NPT 3/8"    |        | NPT 1/2"    |          | NPT 3/4"    |         |
|----------------|----------|-------------|---------|-------------|--------|-------------|----------|-------------|---------|
|                |          | in.         | mm.     | in.         | mm.    | in.         | mm.      | in.         | mm.     |
| Cable diameter |          | 0.20 - 0.26 | 5 — 6.5 | 0.24 - 0.39 | 6 — 10 | 0.35 - 0.53 | 9 — 13.5 | 0.55 — 0.71 | 14 — 18 |
| Model No.      | 1 pc(s). | 9957.640    |         | 9957.641    |        | 9957.642    |          | 9957.643    |         |



- Gasket
- 2 Cap nut
- 3 Gripper jaws
- 4 Shield spring (EMC version only)
- 5 Clamping ring
- 6 Enclosure gasket
- Base with locator for assembly tool



# Assembly tool

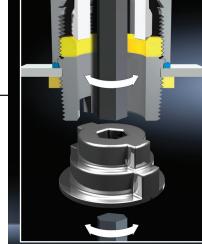
For HD cable gland tool, for attaching cable glands in an internal thread or using lock nuts. This can be achieved either from the inside or

Supply includes (per pack): - One (1) pc(s). Adapter for sizes M12 - M25

from the outside using an Allen key

### Assembly tool

|           | Packs of |          |
|-----------|----------|----------|
| Model No. | 1 pc(s). | 2410.290 |



# Rittal - The System.

# Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

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Woodfield Corporate Center
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Phone: 937-399-0500 • Toll-free: 800-477-4000
Email: rittal@rittal.us • Online: www.rittal.com

#### **Rittal Limited**

6485 Ordan Drive • Mississauga, Ontario L5T 1X2 • Canada

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#### **Rittal Mexico**

Dr. Roberto Gayol 1219–1B • Col. Del Valle Sur, 03100 • Mexico, D.F. Phone: (+52) (55) 5559-5369 • Toll-free: 01 800 8 Rittal (748.825) E-Mail: info@rittal.com.mx • Website: www.rittal.com.mx



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