

# ADALET

A SCOTT FETZER COMPANY



## INCREASED SAFETY ENCLOSURES

ATEX

CSA/cUL

GOST-R

INMETRO

IECEX

KOSHA

UL

## INCREASED SAFETY

Adalet offers a variety of enclosures which are rated to the increased safety (Exe) method of protection. These enclosures provide an alternative to flameproof enclosures and are intended to house electrical components which will not generate an arc or spark during normal operation. Additional design measures are taken to prevent the possibility of excessive heat, the ingress of water or dust, and the resistance to impact, thus preventing any explosions from occurring. From simple terminal enclosures to high voltage and control enclosures, Adalet's line of increased safety enclosures offers the flexibility to meet your custom requirements.

## ASK ABOUT AVAILABLE OPTIONS AND MODIFICATIONS SUCH AS:

- Gland plates
- EMI/RFI Shielding
- Breathers/drains
- Mounting pans
- Gland plates supplied predrilled or solid for field drilling
  - Cable glands, stopping plugs, reducers, adaptors
  - Terminal block assemblies
- Custom polyester powder coating and silk screening



## SCREW COVER TERMINAL ENCLOSURES TSC4X(6) SERIES



Adalet's TSC4X(6) screw cover terminal are available in stainless steel 304 or 316L. Silicone gasket, slotted captive cover bolts, box & cover ground studs including an external earthing stud, and universal rail mounting system are included as standard (except 050503, mtg. pan used).

### STANDARD FEATURES

- 18 Standard sizes available
- Stainless steel captive hex head, slotted cover screws
- Type 4 watertight, silicone gasket
- Internal rail mount system (except 050503)
- Internal / external ground screws
- Wall mounting flange with .31" clearance holes

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Hinged Cover
- Mounting panels
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130438X
  - Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0017X
  - Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)



## CLAMPED COVER TERMINAL ENCLOSURES TN4X(6) SERIES



Adalet's TN4X(6) series terminal enclosures are available in stainless steel 316L or 304. Adalet can also supply custom size enclosures, operators, and components to suit your increased safety application. Silicone gaskets, removeable hinge pin, box & cover ground studs including an external earthing stud and universal rail mounting system are included as standard.

### STANDARD FEATURES

- 75 Standard sizes available with depths of 6", 8" & 10"
- Stainless steel clamps
- Type 4 watertight silicone gasket
- Continuous piano hinge with removeable hinge pin
- Internal rail mount system
- Internal / external ground screws
- Wall mounting tabs, padlock hasp and staple

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Mounting panels
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)
- Auxiliary devices such as breathers, drains, hole plugs, data pockets, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX I30437X
  - Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0016X
  - Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)



## QUARTER TURN LATCH TERMINAL ENCLOSURES VH4X(6) & VC4X(6) SERIES



Adalet's VH4X(6) / VC4X(6) series increased safety enclosures are designed to house terminal blocks providing a completed terminal enclosure in compliance with all current ATEX / IECEx standards. Available in 304 or 316L stainless steel, the quarter turn latch terminal enclosures include 13 standard sizes and any custom size in between.

### STANDARD FEATURES

- 13 Standard VH sizes available
- 24 standard VC sizes available
- Stainless steel quarter turn latch
- Fully removeable, stainless steel hinge kit
- Type 4 watertight silicone gasket
- Painted steel mounting panel

### DESIGN OPTIONS

- Custom sizes available to meet most specifications
- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries or cut outs
- Terminal assembly population
- Lamacoid or stainless steel nameplates
- Window assemblies (square / rectangular)

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 09 ATEX 0803119X
- IECEx UL 08.0012X
  - Exe II T6 (T5: Tamb≤+55°C)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II

Designed to protect in areas where flammable gases, vapors, liquids and dusts can exist.



## HIGH VOLTAGE TERMINAL ENCLOSURES HV4X(6) SERIES



The HV4X(6) series of increased safety high voltage termination enclosures feature a single door style with clamped cover and are available in stainless steel 316L or 304. The one in/one out connection series is designed for shielded or unshielded cables up to 8kV at 500A, while the two in/two out connection series is designed for two parallel unshielded cables up to 2kV at 1kA total. The HV4X(6) series is offered in sizes from 24"x12"x6" to 60"x36"x16" for the 1 x 1 connection series, and 20"x20"x8" to 60"x36"x10" for the 2 x 2 connection series.

### STANDARD FEATURES

- 31 Standard sizes available in 1 x 1 or 2 x 2 connection options
- Stainless steel captive cover clamps and screws
- Continuous piano hinge with removable hinge pin
- Type 4 watertight silicone gasket
- Set of three porcelain insulators with mechanical connectors
- Adjustable mounting panel and adjustable clamp rails
- Internal / external ground screws
- Wall mounting tabs, padlock hasp and staple

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries or cut outs
- UHWM-PE cable clamps
- Lamacoid or stainless steel nameplates
- Auxiliary devices such as breathers, drains, hole plugs, data pockets, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130437X
  - Exe II T6 (T5: I> 650A)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0021X
  - Exe II T6 (T5: I> 650A)
  - Ex tD A21 IP66 T200°C
- GOST-R
- Class I, Zone I Exe II T6 (T5: I> 650A)



## CONTROL ENCLOSURES CN4X(6) SERIES



Adalet's CN4X(6) single door clamped control enclosures are available in stainless steel 316L or 304. Adalet can also supply custom size enclosures, operators, and wiring of devices to rail mounted terminal blocks to suit your increased safety application. Silicone gaskets, removeable hinge pin, box & cover ground studs including an external earthing stud, along with internal standoffs for mounting pans are included as standard.

### STANDARD FEATURES

- 75 standard sizes available
- Stainless steel cover clamps and screws
- Continuous piano hinge with removeable stainless steel pin
- Watertight silicone gasket
- Padlock hasp and staple
- Ground stud on box and cover
- External ground stud
- Wall mounting feet

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries and cut-outs
- Adalet EH series Exe operators
- Legend plates and lamacoid or stainless steel names plates
- Breather / drain & stopping plugs
- Terminal assembly population
- Stainless steel mounting panels
- Cable glands and conduit fittings
- Internal earth bar
- Custom sizes

### CERTIFICATIONS

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups F, G
- Type 4X, 12, 13
- DEMKO 01 ATEX 130437X
  - Ex demb II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- Ex d e mb IIC T6X (T5: Ta≤+55° C) (Canada)
- IECEx UL 09.0020X
  - Ex d e mb IIC T6(T5: T4≤+55° C)
  - Ex tD A21 IP66 T200° C
- GOST-R
- Class I, Zone I, AEx d e mb IIC T6 (T5: Ta≤+55° C)





## CONTROL ENCLOSURES / PENDANT STATIONS CSC4X(6) SERIES



Ten standard designs make up the CSC4X(6) line of stainless steel 316L or 304 control station enclosures ranging from 1 hole to 16 holes. Design configurations include in-line options for 1 to 4 holes as well as larger enclosures for 2 x 2 up to 4 x 4 designs. Custom sizes and hole configurations are available up to 24" x 24". The enclosures feature a continuous one piece silicone gasket which provides an IP66 ingress rating for dust-tight and water-tight locations. Cover hole cutouts are 30.5mm openings and are designed to house Adalet's standard line of increased safety pushbuttons, pilot lights, and selector switches.

### STANDARD FEATURES

- 10 standard sizes with 4" or 6" depths
- Hole configurations from 1 to 16 holes
- Vertical in-line configurations from 1 to 4 holes
- Type 4 watertight silicone gasket
- Cover entries for 30.5mm operators
- Internal / external ground screws
- Wall mounting tabs

### DESIGN OPTIONS

- Gland plates on ABCD sides (top, bottom, left, or right) on 6" depths or greater
- Drilled entries or cut outs
- Mounting panels or universal rail mount system
- Lamacoid or stainless steel nameplates
- Adalet EH / EL series operating devices
- Auxiliary devices such as breathers, drains, hole plugs, etc.

### CERTIFICATIONS

- Class I, Division 2, Group BCD
- Class II, Division 2, Group EFG
- Class III
- Type 4X, 12, 13
- DEMKO 01 ATEX 130438X
  - Ex demb II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)
  - Ex tD A21 IP66 T200°C
- IECEx UL 09.0024X
- GOST-R
- Class I, Zone I Ex demb II T6 (T5: Tamb≤+55°C) (T4: Tamb≤+70°C)

## CABLE GLANDS



Adalet offers a variety of cable glands and fittings used in hazardous location applications. Available in brass, nickel plated brass, or stainless steel, the cable glands are for use in hazardous areas within the oil & gas, petrochemical, and marine applications. These fittings carry global certifications and are available in various gland sizes for metric and NPT threads. Available for both Exd and Exe applications, the cable glands can be equipped with various options such as special threads, seals, and plating.



## INCREASED SAFETY PILOT DEVICES



Adalet offers a complete line of increased safety operating devices including pilot lights, pushbuttons, mushroom head pushbuttons, illuminated pushbuttons, and selector switches. All operators are for use in control circuits functioning in Zone 1 & 2 rated environments and are used in conjunction with Adalet's increased safety control enclosures. These heavy duty operators are suitable for use in hazardous or corrosive atmospheres and are watertight for NEMA 4X applications. Adalet's Exe pilot devices are ATEX / IECEx certified as stand alone devices or when installed in an ATEX / IECEx certified increased safety enclosure. The devices are designed to fit into a standard 30.5mm opening and constructed from aluminum for rugged, industrial applications. Various contact block arrangements are available for pushbuttons and selector switches and various color LED bulbs are available for pilot lights.

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## About Adalet

For more than 85 years, ADALET, a division of Scott Fetzer, has been an industry leader in the development and manufacture of enclosure systems and cable accessories.

Adalet offers the most extensive line of enclosures and fittings to the hazardous and non-hazardous environment markets. Our engineered enclosure systems include explosionproof and stainless steel junction boxes, motor control enclosures, meter and instrument housings, and increased safety terminal and control enclosures. Our enclosures carry an extensive line of certifications and approvals both domestically and internationally.

To find out more information regarding our products, engineering services and our company-wide commitment to quality, please contact an authorized Adalet Distributor, Sales Representative or Customer Service Department.

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