

APD Series Customized Enclosures

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Enclosures are designed to facilitate electrical connections in hazardous areas as a Junction Box and Control Panels.
- Enclosures may be customized to house terminal blocks, and a large range of components; i.e. control units, breakers, starters, relays, meters, etc.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres, such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos
 - Other facilities

Features

- Enclosures are available in 8 sizes for power distribution and automation application.
- Precision machined flameproof joint between body and cover.
- Silicon gaskets for size APD_H 231515, APD_H 352725, APD_H 404028 and APD_C 454530.
- External fixing brackets in ss304.
- Internal mounting plate.
- Internal earth: mounting plate provided with a screw of size M6 to M10.
- External earth: M8 to M12 stud.
- Operating temperature -30 °C to +60 °C (-22 °F to +140 °F) (see Certifications and Compliances for details).
- Electrical data: maximum voltage -AC up to 690 Vac/440 Vdc current rating:
 - APD_H 556528 / 757528 / 759528 / 619628 - 1200AAC/DC
 - APD_H 231515 / 352725 / 404028 / 454530 - 400AAC/DC

Standard Material

- Housing: aluminum; 304/316L stainless steel available on request
- Brackets - MS powder coated (stainless steel available as option)
- Cover bolts: stainless steel property Class A2-70
- Hinges: stainless steel
- Hardware: 304 stainless steel; 316 stainless steel available on request
- Earth stud: 304 stainless steel, standard

Standard Finishes

- Housing: marine grade gray epoxy powder coat. Other colors available on request.

Options

- Indirect cable entries through Ex e connection is available as option.
- Factory assembled and wired.
- Empty enclosure with Ex "U" component marking for recertifying by Certifying body.
- Switchrack Assembly

ATEX/IECEx Certifications and Compliances

- Certification Type: APAH/APSH
 - Models: APD_H 556528 / APD_H 757528 / APD_H 759628 / APD_H 619628
 - Gas, Zones 1 and 2:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2G
 - Type of Protection: Ex db IIB+H2 T° Gb



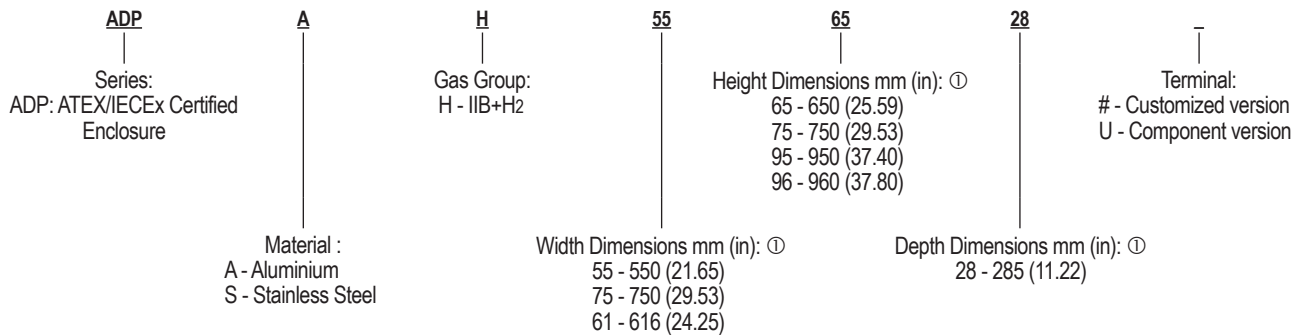
- Temperature Class: T6 to T4
- Index of Protection according EN/IEC 60529: IP66
- Ambient Temperature: -20 °C +55 °C (-4 °F to +131 °F)
- Dust, Zones 21 and 22:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T Db
 - Surface Temperature: T85 °C to T135 °C (T185 °F to T275 °F)
- ATEX Certificate: Baseefa 19ATEX0059X
- IECEx Certificate: IECEx BAS 19.0047X
- Certification Type: APAH/APSH
 - Models: APD_H 231515 / APD_H 352725 / APD_H 404028
 - Gas: Zones 1 and 2
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIB+H2 T° Gb
 - Temperature Class: T6 to T4
 - Index of Protection according EN/IEC 60529: IP66
 - Ambient Temperature: -30 °C to +60 °C (-22 °F to +140 °F)
 - Dust: Zones 21 and 22
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T Db
 - Surface Temperature: T80 °C to T130 °C
 - ATEX Certificate: ETL23ATEX0318X
 - IECEx Certificate: IECEx ITS 23.0016X
- Certification Type: APAH/APSH
 - Model: APD_C454530
 - Gas: Zones 1 and 2
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIC T° Gb
 - Temperature Class: T6 to T4
 - Index of Protection according EN/IEC 60529: IP66
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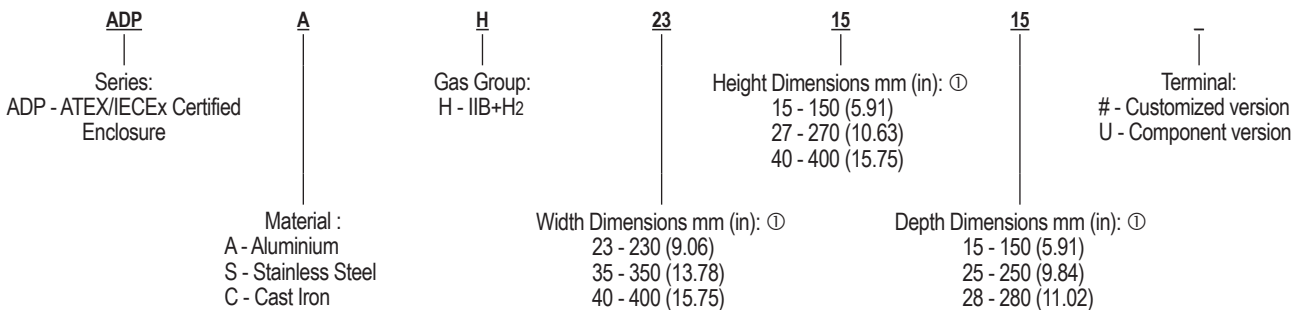
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

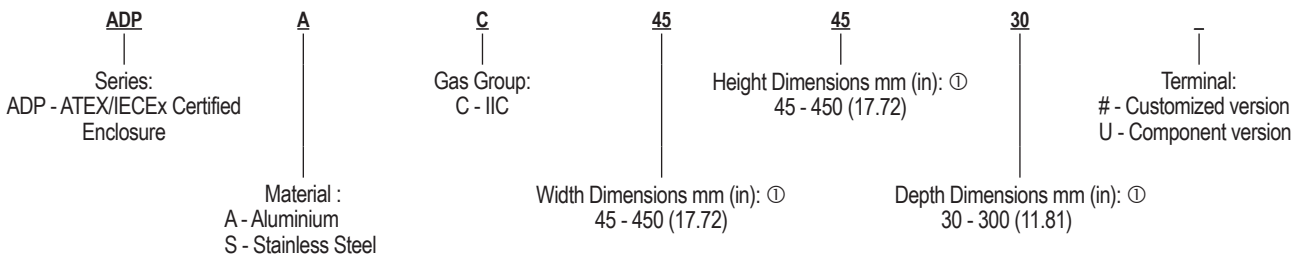
Catalog Numbering Guide — APD Series Models: APD_H 556528 / APD_H 757528 / APD_H 759628 / APD_H 619628



Catalog Numbering Guide — APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



Catalog Numbering Guide — APD Series Models: APD_C454530



Mounting Plate — MS Painted — 2 mm (0.079) Thick

Enclosure Catalog Number	Dimensions in mm (in)		Catalog Number	
	Width	Height	Aluminium	Stainless Steel
APD_H 231515	145 (5.71)	225 (8.86)	AH 2315-Z	AH 2315-S
APD_H 352725	260 (10.24)	340 (13.39)	AH 3527-Z	AH 3527-S
APD_H 404028	380 (14.96)	380 (14.96)	AH 4040-Z	AH 4040-S
APD_C 454530	380 (14.96)	380 (14.96)	AH 4545-Z	AH 4545-S
APD_H 556528	490 (19.29)	590 (23.23)	AH 5565-Z	AH 5565-S
APD_H 757528	690 (27.17)	690 (27.17)	AH 7575-Z	AH 7575-S
APD_H 759528	690 (27.17)	890 (35.04)	AH 7595-Z	AH 7595-S
APD_H 619628	554 (21.81)	896 (35.28)	AH 6196-Z	AH 6196-S

① Dimensions represents internal size of the enclosure.

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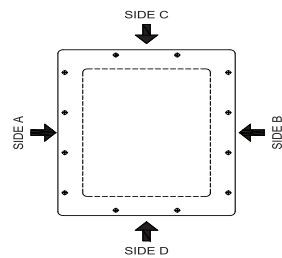
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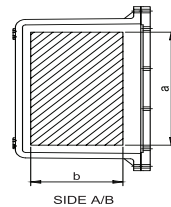
Cable Entry Options

APD_H

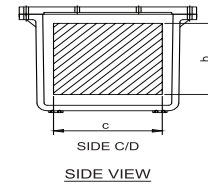
Front View



Side A/B View

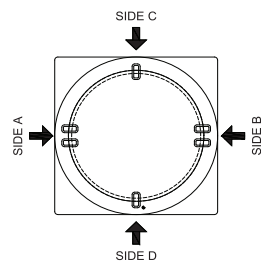


Side B/C View

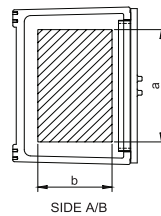


APD_C

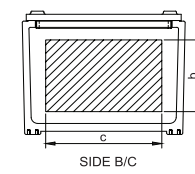
Front View



Side A/B View



Side B/C View



Metric	NPT	APD_H 231515		APD_H 352725		APD_H 404028		APD_C 454530		APD_H 556528		APD_H 757528		APD_H 759528		APD_H 619628	
		Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D
M16 x 1.5	1/2"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M20 x 1.5	1/2" to 3/4"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M25 x 1.5	3/4"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M32 x 1.5	1"	4	2	8	4	8	4	8	4	12	10	14	14	24	20	24	16
M40 x 1.5	1-1/4"	1	1	6	3	6	3	6	3	12	10	14	14	20	14	20	14
M50 x 1.5	1-1/2" to 2"	1	1	3	2	3	2	3	2	8	8	10	10	12	12	12	10
M63 x 1.5	2-1/2" to 3"	—	—	2	1	2	1	2	1	4	4	5	5	7	5	7	4
M75 x 1.5	3" to 3-1/2"	—	—	—	—	1	1	1	1	4	3	5	5	6	5	6	4
M90 x 1.5	3" to 3-1/2"	—	—	—	—	1	1	1	1	3	3	4	4	5	4	5	3
M100 x 1.5	4" to 4-1/2"	—	—	—	—	1	1	1	1	3	3	4	4	4	4	4	3

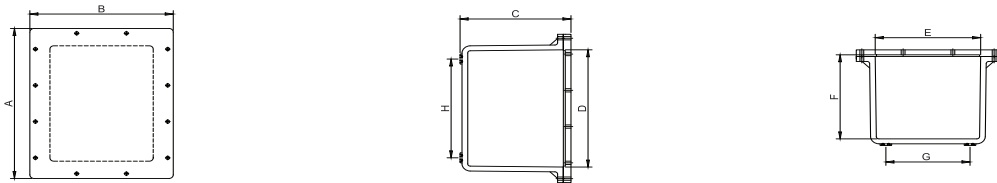
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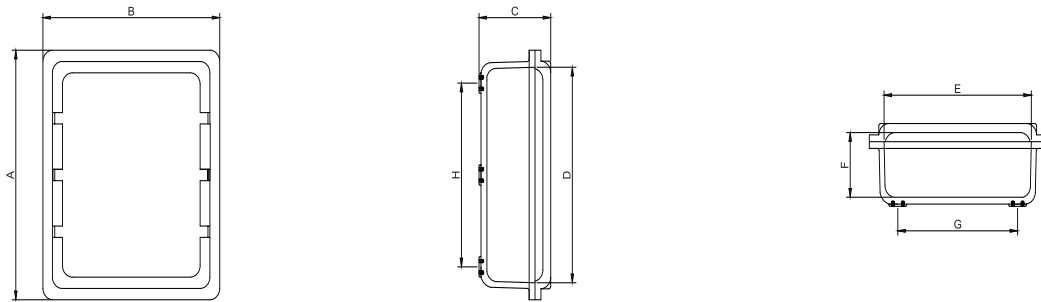
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Dimensions in Millimeters (Inches)

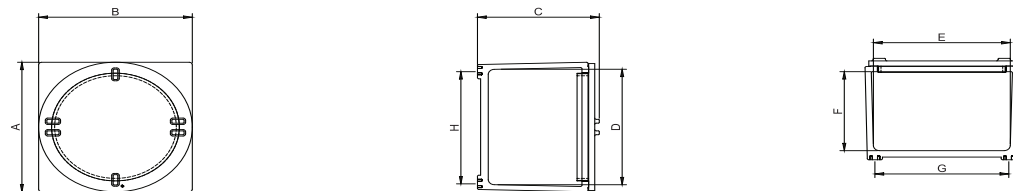
APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



APD Series Models: APD_C454530



Catalog Number	External		Internal			Mounting			Approx. Weight kg (lbs)
	A	B	C	D	E	F	G	H	
APD_H 231515	335 (13.19)	255 (10.04)	180 (7.09)	230 (9.06)	150 (5.91)	150 (5.91)	100 (3.94)	180 (7.09)	10 (22.05)
APD_H 352725	455 (17.91)	375 (14.76)	280 (11.02)	350 (13.78)	270 (10.63)	245 (9.65)	220 (8.66)	300 (11.81)	32 (70.55)
APD_H 404028	510 (20.08)	510 (20.08)	340 (13.39)	400 (15.75)	400 (15.75)	290 (11.42)	300 (11.81)	300 (11.81)	60 (132.28)
APD_C 454530	505 (19.88)	505 (19.88)	410 (16.14)	450 (17.72)	450 (17.72)	310 (12.20)	440 (17.32)	440 (17.32)	74 (163.14)
APD_H 556528	788 (31.02)	688 (27.09)	350 (13.78)	650 (25.59)	550 (21.65)	284 (11.18)	400 (15.75)	500 (19.68)	127 (279.99)
APD_H 757528	888 (34.96)	888 (34.96)	350 (13.78)	750 (29.53)	750 (29.53)	284 (11.18)	600 (23.62)	600 (23.62)	225 (496.04)
APD_H 759528	1124 (44.25)	924 (36.38)	365 (14.37)	950 (37.40)	750 (29.53)	280 (11.02)	590 (23.23)	800 (31.50)	275 (606.27)
APD_H 619628	1140 (46.85)	790 (31.10)	365 (14.37)	960 (37.80)	616 (24.25)	280 (11.02)	466 (18.35)	806 (31.73)	256 (564.38)