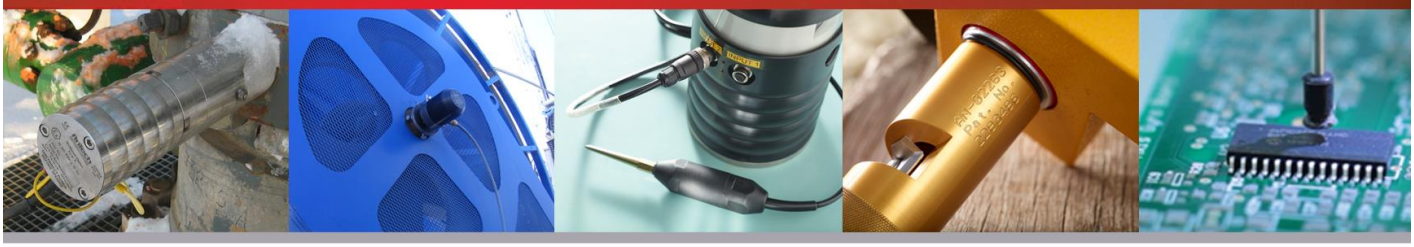

Type C, Wellhead Outlets, Electrical

AnTech's range of cost-effective solutions for terminating electrical cables at the wellhead

The four Type C Wellhead Outlets created by AnTech are designed specifically for use by clients requiring safe, effective solutions at the minimum cost. The Type C Wellhead Outlet provides an outlet for electrical cable while controlling up to 15,000 psi of well pressure.

AnTech's Type C Wellhead Outlets use highly reliable metal-to-metal seals and threaded wellhead connections to maintain a barrier to well pressure at all times. All models have been designed in compliance with API 6A and NACE.

The Type C outlets are designed for use in hazardous areas and models are available with ATEX/IECEx certification, US NEC 500/505 certification or without certification depending on the customer's requirements.

All Type C WHOs are quick and simple to install and require minimal connections to be made up. The user simply swages onto the line, makes up the relevant crimp connections and secures the cable gland and housing.

Models are available for single, dual and triple conductors and can be supplied in 1/8" and 1/4" configurations for either Incoloy or Stainless Steel downhole cable to suit 0.5", 1.0" and 1.5" NPT fittings or 1.0" Autoclave connections.

Multiple additional options can be requested e.g. API6A PSL 3G gas test or API6A PR2 design qualification.

Features & Benefits

- Extremely cost-effective solution for safe, permanent monitoring
- High pressure ratings available
- Designed for hazardous areas
- Simple and easy installation
- Ability to pressure test upon installation
- Multiple additional engineering options as requested.

For information on our Type X range please visit our website

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Technical Specifications for our Type C Wellhead Outlet Range

Product		Type CA	Type CB	Type CC	Type CD	Type CF	Type CG
Key Features		Ex certified, glass to metal secondary barrier, 160°C max temp	Ex certified, elastomeric secondary barrier , 100°C max temp	Non-Ex , no secondary barrier, 160°C max temp	Class 1 Div 1, glass to metal seal, 85°C max temp	Ex certified, elastomeric secondary barrier, customer supplied gland, 100°C max temp	Non-Ex, elastomeric secondary barrier, no test port, customer supplied gland, 100°C max temp
Connection type & pressure rating*	0.5" NPT	10,000 psi / 69.0 MPa	10,000 psi / 69.0 MPa	10,000 psi / 69.0 MPa	10,000 psi / 69.0 MPa	10,000 psi / 69.0 MPa	10,000 psi / 69.0 MPa
	1.0" NPT	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa
	1.5"NPT	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa	5,000 psi / 34.5 MPa
	1" Autoclave	15,000 psi / 103 MPa	15,000 psi / 103 MPa	15,000 psi / 103 MPa	15,000 psi / 103 MPa	15,000 psi / 103 MPa	15,000 psi / 103 MPa
API6A/ISO10423 Rating		-60°C≤T≤160°C FF-NL PSL 3	-20°C≤T≤100°C FF-NL PSL 3	-60°C≤ T≤160°C FF-NL PSL 3	-20°C≤T≤85°C FF-NL PSL 3	-20°C≤T≤100°C FF-NL PSL 3	-20°C≤T≤100°C FF-NL PSL 3
ATEX/IECEx Rating		Ex db IIC T3 Gb	Ex db IIC T3 Gb	N/A	N/A	Ex db IIC T3 Gb	N/A
US NEC 500/505 Rating		N/A	N/A	N/A	Explosion Proof for Class 1 Div 1, Groups ABCD T3, Class 1 Zone 1 Group IIC T3	N/A	N/A
Ambient Temperature	°C	-60 °C to +160 °C	-20 °C to +100 °C	-60°C to +160°C	-20 °C to +85 °C	-20 °C to +100 °C	-20 °C to +100 °C
	°F	-76 °F to +320 °F	-4 °F to +212 °F	-76°F to +320°F	-4 °F to +185 °F	-4 °F to +212 °F	-4 °F to +212 °F
Primary barrier method		Metal to metal seal	Metal to metal seal	Metal to metal seal	Metal to metal seal	Metal to metal seal	Metal to metal seal
Secondary barrier method		Glass to metal	Polymer	No secondary barrier	Glass to metal	Polymer	Polymer
Compatible lines	Diameter	1/8", 1/4" or 4mm	1/8", 1/4" or 4mm	1/8", 1/4" or 4mm	1/4"	1/8", 1/4" or 4mm	1/8", 1/4" or 4mm
	Material	Stainless Steel / Incoloy	Stainless Steel / Incoloy	Stainless Steel / Incoloy	Stainless Steel / Incoloy	Stainless Steel / Incoloy	Stainless Steel / Incoloy
Number of barriers		2	2	1	2	2	2
Max. current	Single/Dual conductor	5A	5A Single only	5A Single only	1A – Dual only	5A Single only	5A Single only
	Triple conductor	3A	N/A	N/A	N/A	N/A	N/A
Max. peak voltage		450V	275V	450V	150 V AC/DC	275V	275V
Ingress protection		IP68	IP68	IP68	NEMA Type 4	IP68	IP68
Ability to pressure test upon installation		Yes	Primary Barrier Only	Primary Barrier Only	Yes	Primary Barrier Only	No
Sour Service**		As standard					
CO2 Service		If requested					
Acid Service		If requested					
Approximate Dimensions	Length	278 mm / 10.945 in	278 mm / 10.945 in	278 mm / 10.945 in	397 mm / 15.627 in	278 mm / 10.945 in	278 mm / 10.945 in
	Diameter	48 mm / 1.866 in	48 mm / 1.866 in	48 mm / 1.866 in	81 mm / 3.193 in	48 mm / 1.866 in	48 mm / 1.866 in

*Customer line type dependent, **In compliance with NACE MR 00175/ISO 15156