

STAHL

### Conduit Hubs:

- For connecting conduit.
- Sizes 1/2"-3" NPT.
- For Hazardous (classified) Locations.
- Material Zinc.

### Cable Glands:

- For connecting all types of cables.
- Sizes 1/2"-4" NPT.
- For Wet and Hazardous (classified) Locations.
- Several gland materials available.

### Breather:

- For ventilation.
- Explosion protection "increased safety".



**Accessories . . . . . J-J9**

8166/11 Hazardous Location Conduit Hubs . . . . . J1  
8162/9 Breather Drain . . . . . J2  
Cable Glands and Accessories . . . . . J3-J9

*Our products are updated to the newest standard developments and technologies which makes it necessary to reserve the right to product changes without notice.*





**CLASSIFICATIONS**

- NEC- Class I, Zones 1, AEx e II  
Class I, Division 2  
Class II, Divisions 1 & 2, Groups F & G  
Class III
- CEC- Ex e II  
Class I, Division 2  
Class II, Division 2, Groups F & G  
Class III  
Environmental Protection  
Types 3, 4 and 4X; IP66

File No. 200949

II 2 G Ex e II  
PTB 00 ATEX 1114U  
Ingress Protection IP66

Ambient Temperature Range  
+100°C (+212°F) Max.  
-30°C (-22°F) Min.

Grounding Terminal Capacity:  
One or two copper wires,  
14 to 8 AWG, solid or stranded

**FEATURES**

The 8166/11 Series of Conduit Hubs are listed for hazardous (classified) locations as specified above and are suitable for installation of rigid conduits with 1/2" - 3" NPT threads to metallic and non-metallic enclosures with appropriate ratings. They also provide a sure watertight seal by means of an embedded "O" Ring.

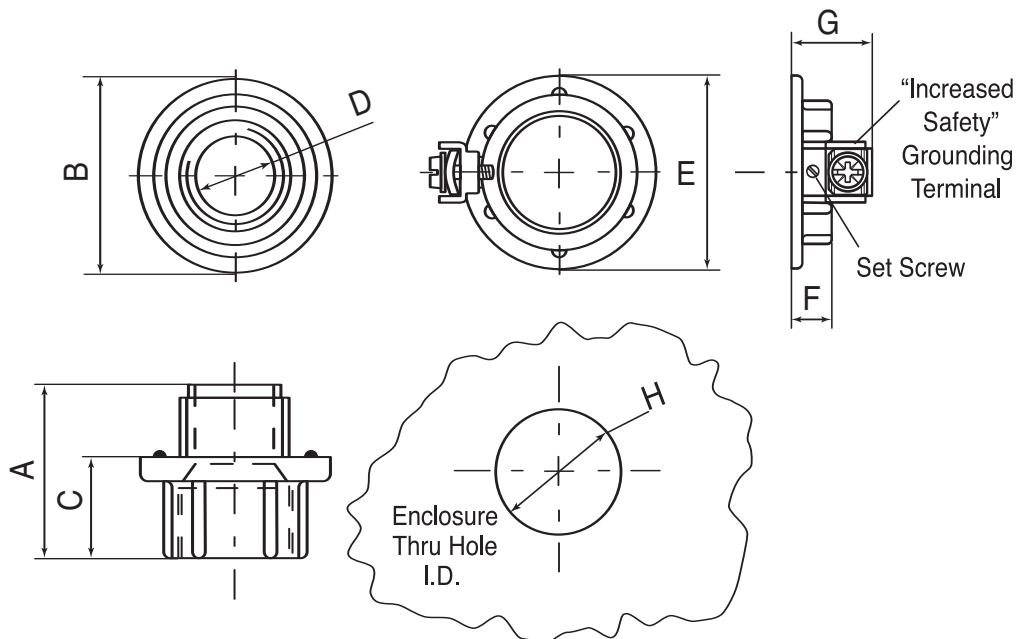
They are made of zinc and are provided with a protective, insulated throat. The grounding locknut provides an "increased safety" terminal which prevents the ground wire from rotating when tightening. The locknut also has a set screw which after tightening provides firm metal-to-metal connection between the HUB body and the locknut.

**Hazardous Location Conduit Hubs with "Increased Safety" Grounding Terminal**  
**Ordering Information**

	Size NPT	Catalog Number	(H) Enclosure Thru Hole I.D.
	1/2"	8166/11-01-NE	7/8"
	3/4"	8166/11-02-NE	1-1/8"
	1"	8166/11-03-NE	1-3/8"
	1-1/4"	8166/11-04-NE	1-3/4"
	1-1/2"	8166/11-05-NE	2"
	2"	8166/11-06-NE	2-1/2"
	2-1/2"	8166/11-07-NE	3"
	3"	8166/11-08-NE	3-5/8"

**Dimensions in Inches**

Hub with "e" grounding nut	A	B (O.D.)	C	D (ID)		E (O.D.)	F	G
				(min.)	(max.)			
8166/11-01-NE	1.31	1.54	0.73	0.56	0.65	1.54	0.34	0.80
8166/11-02-NE	1.37	1.73	0.78	0.79	0.85	1.73	0.39	0.85
8166/11-03-NE	1.59	2.04	0.90	1.01	1.08	2.04	0.46	0.92
8166/11-04-NE	1.59	2.42	0.90	1.32	1.41	2.42	0.46	0.92
8166/11-05-NE	1.59	2.79	0.90	1.54	1.65	2.79	0.46	0.92
8166/11-06-NE	1.59	3.29	0.90	1.98	2.10	3.29	0.46	0.92
8166/11-07-NE	1.47	3.70	1.56	2.44	2.49	3.70	0.56	1.00
8166/11-08-NE	1.47	4.39	1.56	3.05	3.10	4.39	0.56	1.00



# 8162/9 Series Breather

## ACCESSORIES



### CLASSIFICATIONS

NEC- Class I, Zones 1 & 2 AEx e II  
Class I, Division 2



LISTED - File No. E200949




File No. 3000248

Material: Nylon  
Ingress Protection  
IP54, Type 3R  
when installed in enclosures  
of the same rating

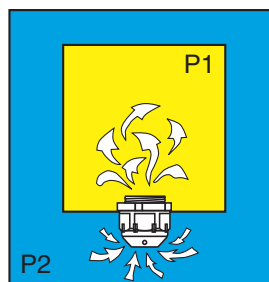
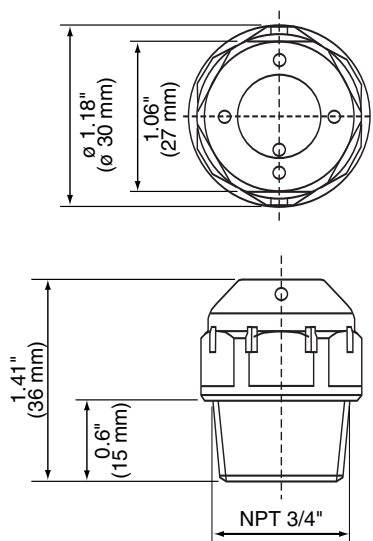
### Ordering Information

DESCRIPTION		CATALOG NUMBER
Breather 8162/9	1 piece	81 620 03 01 0
Thread 3/4" NPT	100 pieces	81 620 05 02 0

### Parts

DESCRIPTION	DESIGNATION	CATALOG NUMBER
Felt Washer	 Polyamide 20 piece	81 628 01 52 0

### Dimensions



Temperature-dependent pressure differences between the interior of an enclosure (P1) and the external atmosphere (P2) are reliably equalized by means of the breather. Condensation build-up in the enclosure is thus kept to a minimum.

### Application

The breather is designed for ventilation where there is the possibility of moisture or condensation being trapped within an enclosure.

### Features:

The breather is suitable for installation in 3/4" conduit hubs or drilled and tapped conduit openings of general purpose or increased safety enclosures. They must be protected from severe impact. The felt insert is replaceable.

FOR WET & HAZARDOUS LOCATIONS



## CLASSIFICATIONS

NEC- Class I, Zone 1, AEx e II  
Class I, Div. 2, Groups A,B,C & D  
NOTE: When installed in compliance with the NEC.

Types 4X; IP66, IP67 & IP68

NOTE: For IP67 and IP68 requirements the cable diameter "B" (minimum value) shown in table should be increased by 1.0 mm to ensure compliance.

File No. UBWE.E200163  
FDJR.E256367

Certificate No. 1310517

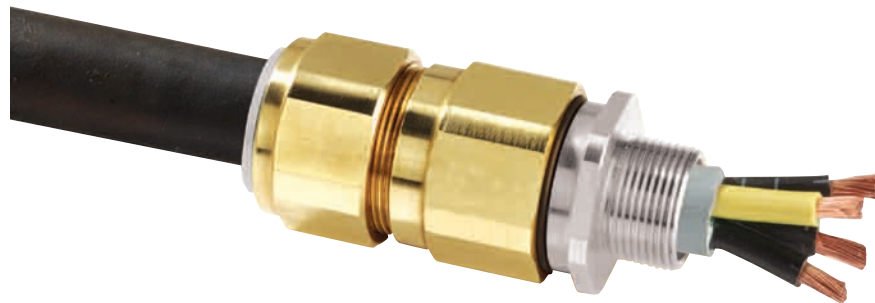
## MARINE APPROVALS

Lloyds Approval No.: 01/00171  
Gost K Cert. No.: KZ7500052.05.01.00063  
RoK Approval No.: 08-06/7693  
DNV Approval No.: E-8119  
ABS Approval No.: 01-LD234401B/1-PDA  
Ingress Prot. Doc.: 5046 C549G  
Deluge Prot. Compliance: DTS01 : 91  
Deluge Prot. Doc.: 5046 C549G-D

Continuous Operating Temperature  
+130°C (+266°F) Max.  
-60°C (-76°F) Min.

## FEATURES

The C2KX cable gland is suitable for use with armored and jacketed cables with wire braid armor. The cable gland provides mechanical retention and electrical continuity via the armor termination. The standard cable gland material is Brass with Electroless Nickel Plated material as pictured above. Optional materials are: Brass, Stainless Steel or Brass - Fully Electroless Nickel Plated.



## Ordering Information (Dimensions in Inches)

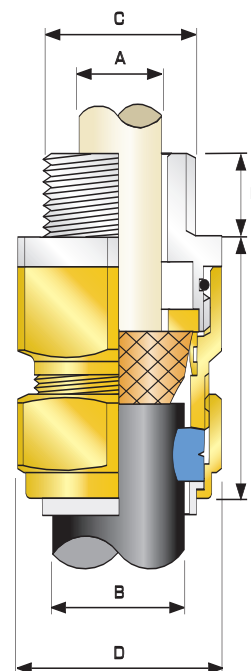
C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A MAX. CABLE BEDDING DIA.	B OVERALL CABLE DIAMETER		ARMOR RANGE		D ACROSS		F NOM. PRO- TRUSION LENGTH	PVC SHROUD REF.	CATALOG NUMBER
			MIN.	MAX.	MIN.	MAX.	FLATS MAX.	CRNRS. MAX.			
1/2"	0.630	0.461	0.240	0.453	0.0	0.039	0.945	1.047	2.303	PVC06	20S16C2KX1RA731
1/2"	0.630	0.461	0.374	0.626	0.0	0.039	0.945	1.047	2.303	PVC06	20SC2KX1RA731
1/2"	0.630	0.551	0.492	0.823	0.0	0.039	1.201	1.311	2.382	PVC06	20C2KX1RA731
3/4"	0.669	0.787	0.551	0.866	0.0	0.039	1.476	1.594	2.657	PVC09	25SC2KX1RA732
3/4"	0.669	0.787	0.717	1.031	0.0	0.039	1.476	1.594	2.657	PVC09	25C2KX1RA732
1"	0.787	1.035	0.933	1.335	0.0	0.039	1.811	2.008	2.736	PVC11	32C2KX1RA733
1-1/4"	0.787	1.268	1.098	1.591	0.0	0.039	2.165	2.402	3.071	PVC15	40C2KX1RA734
1-1/2"	0.787	1.504	1.386	1.839	0.0	0.039	2.362	2.618	2.972	PVC18	50SC2KX1RA735
2"	0.906	1.736	1.591	2.091	0.0	0.039	2.756	3.094	3.169	PVC21	50C2KX1RA736
2"	0.906	1.969	1.795	2.339	0.0	0.039	2.953	3.276	3.602	PVC23	63SC2KX1RA736
2-1/2"	0.984	2.205	2.150	2.594	0.0	0.039	3.150	3.504	3.622	PVC25	63C2KX1RA737
2-1/2"	0.984	2.441	2.323	2.839	0.0	0.039	3.504	4.000	3.898	PVC28	75SC2KX1RA737
3"	1.417	2.677	2.626	3.091	0.0	0.039	3.898	4.374	4.016	PVC30	75C2KX1RA738
3-1/2"	1.417	3.150	3.000	3.559	0.0	0.063	4.488	5.063	4.724	PVC32	90C2KX1RA739

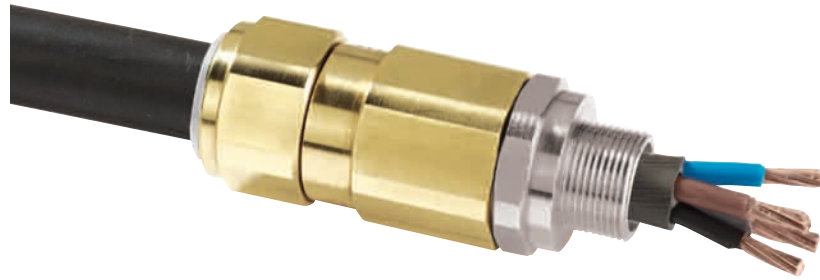
The standard Material is Brass with Electroless Nickel Plated Entry component, indicated by a 7 in the Catalog Number. For other Material Options change the 7 to the indicated number of the material options:

- Insert Material Option**
- 1- Aluminum
  - 4- Stainless Steel
  - 5- Brass - Fully Electroless Nickel Plated

## Technical Data

TYPE	C2KX
Standard Gland Material	Brass with Nickel Plated Entry Component
Optional Gland Material	Brass, Stainless Steel or Brass - Fully Electroless Nickel Plated
Seal Material	SOLO LSF Thermoplastic Elastomer
Cable Type	Armored & Jacketed
Armor Clamping	Detachable Armor Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique "LRS" <sup>TM</sup> Outer Seal (Load Retention Seal)
Sealing Area(s)	Cable Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer, Adapter/Reducer





### CLASSIFICATIONS

NEC- Class I, Zones 1 & 2, AEx e II  
Types 3, 4 & 4X, IP66, 67 & 68  
NOTE: For IP67 and IP68 requirements the cable diameter "B" (minimum value) shown in table should be increased by 1.0 mm to ensure compliance.

 File No. UBWE.E200163,  
CYMJ.E256366 &  
FDJR.E256367

CEC Ex d IIC / Ex e II  
Class I, Div. 2, Groups A,B,C & D  
Class II, Div. 2, Groups E,F & G  
Class III  
Types 3, 4 & 4X; IP66 & IP68

 Certificate 1310517

**MARINE APPROVALS**  
Lloyds Approval No.: 01/00172  
Gost K Cert. No.: KZ7500052.05.01.00063  
RoK Approval No.: 08-06/7693  
DNV Approval No.: E-8119  
ABS Approval No.: 01-LD234401A/1-PDA  
Ingress Prot. Doc.: ITS 03 1006/Issue 1  
Deluge Prot. Compliance: DTS01 : 91  
Deluge Prot. Doc.: ITS 01005029

Continuous Operating Temperature  
+130°C (+266°F) Max.  
-60°C (-76°F) Min.

### FEATURES

The T3CDS cable gland is suitable for use with all types of armored and jacketed marine cables with wire braid armor or served (single) wire. The cable gland provides a seal on the cable inner bedding and an environmental seal on the cable outer jacket. The T3CDS incorporates a unique Compensating Displacement Seal (CDS) system which provides full compatibility with restricted breathing equipment. The cable gland provides mechanical cable retention and electrical continuity via armor wire termination. A reversible armor cone and AnyWay universal clamping ring allows easy disconnection in confined or areas of restricted access from equipment for maintenance or change out. Separate tightening actions for the inner Compensating Displacement Seal and armor termination creates maximum control over the pressure applied to the cable inner bedding.

### Ordering Information (Dimensions in Inches)

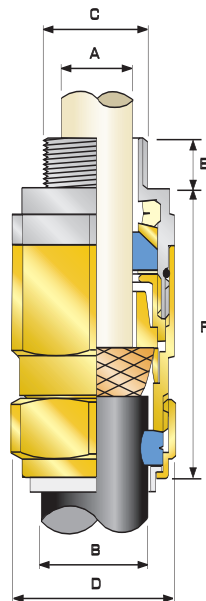
C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A CABLE BEDDING DIAMETER		B OVERALL CABLE DIAMETER		D ACROSS		F NOMINAL ASSMLD. LENGTH	PVC SHROUD REF.	CATALOG NUMBER
		MIN.	MAX.	MIN.	MAX.	FLATS MAX.	CRNRS. MAX.			
1/2"	0.630	0.122	0.343	0.240	0.453	0.945	1.047	2.756	PVC02	20S16T3CDS1RA731
1/2"	0.630	0.240	0.461	0.374	0.626	0.945	1.047	2.756	PVC04	20ST3CDS1RA731
1/2"	0.630	0.256	0.551	0.492	0.823	1.201	1.311	2.835	PVC06	20T3CDS1RA731
3/4"	0.669	0.437	0.787	0.551	0.866	1.476	1.594	3.228	PVC09	25ST3CDS1RA732
3/4"	0.669	0.437	0.787	0.717	1.031	1.476	1.594	3.228	PVC09	25T3CDS1RA732
1"	0.787	0.669	1.035	0.933	1.335	1.811	2.008	3.346	PVC11	32T3CDS1RA733
1-1/4"	0.787	0.866	1.268	1.098	1.591	2.165	2.402	3.386	PVC15	40T3CDS1RA734
1-1/2"	0.787	1.161	1.504	1.386	1.839	2.362	2.618	3.858	PVC18	50ST3CDS1RA735
2"	0.906	1.402	1.736	1.591	2.091	2.756	3.094	3.937	PVC21	50T3CDS1RA736
2"	0.906	1.579	1.969	1.795	2.339	2.953	3.276	4.252	PVC23	63ST3CDS1RA736
2-1/2"	0.984	1.858	2.205	2.150	2.594	3.150	3.504	4.355	PVC25	63T3CDS1RA737
2-1/2"	0.984	2.079	2.441	2.323	2.839	3.504	4.000	4.434	PVC28	75ST3CDS1RA737
3"	1.417	2.327	2.677	2.626	3.091	3.898	4.374	4.520	PVC30	75T3CDS1RA738
3-1/2"	1.417	2.622	3.126	3.000	3.559	4.488	5.063	5.512	PVC32	90T3CDS1RA739

The standard Material is Brass with Electroless Nickel Plated Entry component, indicated by a 7 in the Catalog Number. For other Material Options change the 7 to the indicated number of the material options:

- Insert Material Option**
- 1- Aluminum
  - 4- Stainless Steel
  - 5- Brass - Fully Electroless Nickel Plated

### Technical Data

TYPE	T3CDS
Standard Gland Material	Brass with Electroless Nickel Plated Brass Entry Component
Design Specifications	UL 514B
Seal Material	SOLO LSF Thermoplastic Elastomer
Cable Type	Armored & Jacketed, Wire Braid Armor, Served (Single) Wire Armor (SWA)
Armor Clamping	Reversible Armor Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner CDS System & Unique "LRS"™ Outer Seal (Load Retention Seal)
Sealing Area(s)	Cable Inner Bedding & Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer



### Armor Range

GLAND SIZE NPT	GROOVED CONE		STEPPED CONE	
	MIN.	MAX.	MIN.	MAX.
1/2"	0.0	0.039	0.035	0.039
1/2"	0.0	0.039	0.035	0.049
1/2"	0.0	0.039	0.035	0.049
3/4"	0.0	0.039	0.049	0.063
3/4"	0.0	0.039	0.049	0.063
1"	0.0	0.039	0.063	0.079
1-1/4"	0.0	0.039	0.063	0.079
1-1/2"	0.0	0.039	0.079	0.098
2"	0.0	0.039	0.079	0.098
2"	0.0	0.039	0.079	0.098
2-1/2"	0.0	0.039	0.079	0.098
2-1/2"	0.0	0.039	0.079	0.098
3"	0.0	0.039	0.079	0.098
3-1/2"	0.0	0.063	0.124	0.124

NOTE: Stepped Cone is suitable for SWA cables.  
Grooved Cone is suitable for all other approved armored cables





## CLASSIFICATIONS

NEC- Class I, Zone 1 & 2, AEx d II C  
 Class I, Groups A,B,C & D  
 Class II, Groups E,F & G  
 Ordinary & Wet Locations

File No. CYMX7.E161256,  
 CYMJ.E256366

CEC- Class I, Zone 1, Ex d IIC / Ex e II  
 Class I, Div. 1 & 2, Groups A,B,C & D  
 Class II, Div. 1 & 2, Groups E,F & G  
 Class III, Div. 1 & 2  
 Types 3, 4 & 4X; IP66 & IP68

Certificate No. 1129339

## MARINE APPROVALS

Lloyds Approval No.: 01/00172  
 Gost K Cert. No.: KZ7500052.05.01.00063  
 RoK Approval No.: 08-06/7693  
 DNV Approval No.: E-8119  
 ABS Approval No.: 01-LD234401A/1-PDA

## Continuous Operating Temperature

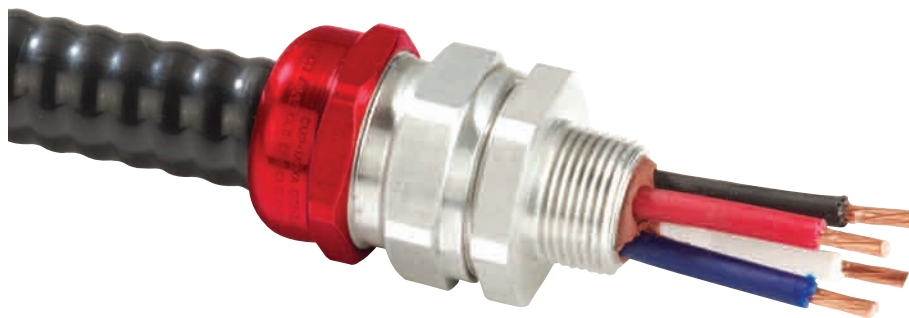
+130°C (+266°F) Max.  
 -60°C (-76°F) Min.

## FEATURES

The TMCX cable gland is suitable for all types of interlocked, continuously welded or corrugated metal clad armor cable and types MC, MC-HL or TECK armored and armored & jacketed cable. The cable gland provides mechanical retention and electrical continuity via the armor termination and an environmental seal on the cable outer jacket. TMCX allows for easy disconnection from equipment, for maintenance and change out. The gland utilizes a re-usable compression spring that provides grounding and gripping functions to the cable armor. The standard cable gland material is Copper Free Aluminum (<0.4%), as pictured above. Optional materials are: Stainless Steel or Electroless Nickel Plated Brass.

# TMCX Cable Glands

FOR WET & HAZARDOUS LOCATIONS



## Ordering Information (Dimensions in Inches)

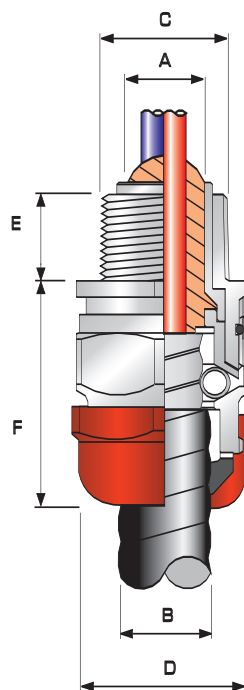
C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A MAX. CABLE ARMOR DIA.				B CABLE JACKET DIAMETER		D ENVELOPE DIA. ACROSS		F NOMINAL ASSMLD. LENGTH	PVC SHROUD REF.	CATALOG NUMBER
		END STOP IN MIN.	END STOP IN MAX.	MIN.	MAX.	MIN.	MAX.	FLATS	CRNRS.			
1/2"	0.59	—	—	0.342	0.503	0.354	0.550	1.18	1.31	2.20	PVC06	TMCX050SA
1/2"	0.59	—	—	0.437	0.669	0.550	0.787	1.42	1.57	2.20	PVC09	TMCX050A
3/4"	0.59	0.591	0.756	0.756	0.917	0.669	1.035	1.61	1.79	2.20	PVC10	TMCX075A
1"	0.63	0.775	0.969	0.969	1.150	0.910	1.268	1.96	2.18	2.24	PVC13	TMCX100A
1-1/4"	0.63	1.083	1.228	1.228	1.386	1.161	1.504	2.16	2.40	2.24	PVC16	TMCX125A
1-1/2"	0.63	1.320	1.461	1.461	1.618	1.402	1.736	2.36	2.62	2.37	PVC18	TMCX150A
2"	0.63	1.508	1.677	1.677	1.854	1.579	2.008	2.78	3.06	2.60	PVC21	TMCX200SA
2"	0.63	1.772	1.933	1.933	2.087	1.858	2.205	2.96	3.28	2.81	PVC24	TMCX200A
2-1/2"	0.90	2.052	2.161	2.161	2.320	2.079	2.441	3.14	3.49	2.88	PVC25	TMCX250SA
2-1/2"	0.90	2.247	2.406	2.406	2.545	2.327	2.677	3.35	3.71	2.88	PVC27	TMCX250A
3"	0.98	2.543	2.776	2.776	2.965	2.622	3.126	4.33	4.80	3.92	PVC32	TMCX300A
3-1/2"	1.437	2.913	3.291	3.291	3.485	2.992	3.830	5.25	5.82	4.61	—	TMCX350A
4"	1.437	—	—	3.500	4.020	3.700	4.220	5.25	5.84	7.66	—	TMCX400A

The standard Material is Copper Free Aluminum (<0.4%), indicated by an A at the end of the Catalog Number. For other Material Options change the A to the indicated letters of the material options:

**Insert Material Option**  
 SS- Stainless Steel  
 NB- Electroless Nickel Plated Brass

## Technical Data

TYPE	TMCX
Standard Gland Material	Copper Free Aluminum (<0.4%)
Optional Gland Material	Electroless Nickel Plated Brass, Stainless Steel
Seal Material	SOLO LSF Thermoplastic Elastomer / Epoxy Resin Barrier
Cable Type	Corrugated & Interlocked Metal Clad Armor or TECK, continuously Welded Metal Clad Armor
Armor Clamping	Earth Continuity in Contact with Metal Clad Armor (MC-HL)
Sealing Technique	Displacement Seal
Sealing Area(s)	Inner Compound Barrier & Cable Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer, Adapter/Reducer



FOR WET & HAZARDOUS LOCATIONS



## CLASSIFICATIONS

NEC- Class I, Zone 1 & 2, AEx e II  
Ordinary & Wet Locations

File No. PJOX.E163112  
CYMJ.E256366

CEC- Class I, Zone 1, Ex e II  
Class II, Div. 1 & 2, Groups E,F & G  
Class III, Div. 1 & 2  
Types 3, 4, 4X; IP66

Certificate No. 1129339

## MARINE APPROVALS

Lloyds Approval No.: 01/00172  
Gost K Cert. No.: KZ7500052.05.01.00063  
RoK Approval No.: 08-06/7693  
DNV Approval No.: E-8119  
ABS Approval No.: 01-LD234401A/1-PDA

Continuous Operating Temperature  
+130°C (+266°F) Max.  
-60°C (-76°F) Min.

## FEATURES

The TMC cable gland is suitable for all types of interlocked, continuously welded or corrugated metal clad armor cable and types MC, MC-HL or TECK armored and armored & jacketed cable. The cable gland provides mechanical retention and electrical continuity via the armor termination and an environmental seal on the cable outer jacket. The TMC cable gland comes as standard in Aluminum, complete with O-Ring and Locknut. It allows for easy disconnection from equipment, for maintenance and change out. The gland utilizes a re-usable compression spring that provides grounding and gripping functions to the cable armor. The standard cable gland material is Copper Free Aluminum (<0.4%), as pictured above. Optional materials are: Stainless Steel or Electroless Nickel Plated Brass.

## Ordering Information (Dimensions in Inches)

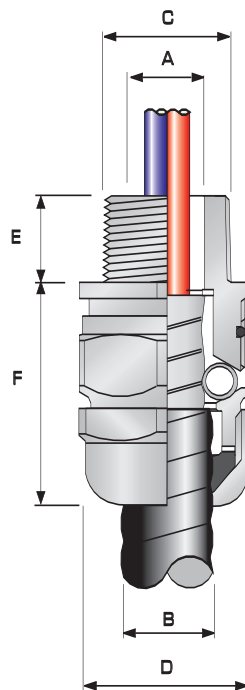
C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A MAX. CABLE ARMOR DIA.				B CABLE JACKET DIAMETER		D ENVELOPE DIA. ACROSS		F NOMINAL ASSMLD. LENGTH	PVC SHROUD REF.	CATALOG NUMBER
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	FLATS	CRNRS.			
1/2"	0.59	—	—	0.342	0.503	0.354	0.550	1.18	1.31	2.20	PVC06	TMC050SA
1/2"	0.59	—	—	0.437	0.669	0.510	0.787	1.42	1.57	2.20	PVC09	TMC050A
3/4"	0.59	0.591	0.756	0.756	0.917	0.669	1.035	1.61	1.79	2.20	PVC10	TMC075A
1"	0.63	0.775	0.969	0.969	1.150	0.910	1.268	1.96	2.18	2.24	PVC13	TMC100A
1-1/4"	0.63	1.083	1.228	1.228	1.386	1.161	1.504	2.16	2.40	2.24	PVC16	TMC125A
1-1/2"	0.63	1.320	1.461	1.461	1.618	1.402	1.736	2.36	2.62	2.37	PVC18	TMC150A
2"	0.63	1.508	1.677	1.677	1.854	1.579	2.008	2.78	3.06	2.58	PVC21	TMC200SA
2"	0.63	1.772	1.933	1.933	2.087	1.858	2.205	2.96	3.28	2.49	PVC24	TMC200A
2-1/2"	0.90	2.052	2.161	2.161	2.320	2.079	2.441	3.14	3.49	2.50	PVC25	TMC250SA
2-1/2"	0.90	2.247	2.406	2.406	2.545	2.327	2.677	3.35	3.71	2.52	PVC27	TMC250A
3"	0.98	2.543	2.776	2.776	2.965	2.622	3.126	4.33	4.80	3.57	PVC32	TMC300A
3-1/2"	1.437	2.91	3.291	3.291	3.485	2.992	3.830	5.25	5.82	4.61	—	TMC350A
4"	1.437	—	—	3.500	4.020	3.700	4.220	5.28	5.84	7.66	—	TMC400A

The standard Material is Copper Free Aluminum (<0.4%), indicated by an A at the end of the Catalog Number. For other Material Options change the A to the indicated letters of the material options:

- Insert Material Option
- SS- Stainless Steel
  - NB- Electroless Nickel Plated Brass

## Technical Data

TYPE	TMC
Standard Gland Material	Copper Free Aluminum (<0.4%)
Alternative Gland Material	Electroless Nickel Plated Brass, Stainless Steel
Seal Material	SOLO LSF Thermoplastic Elastomer
Cable Type	Corrugated & Interlocked Metal Clad Armor or TECK, continuously Welded Metal Clad Armor
Armor Clamping	Earth Continuity in Contact with Metal Clad Armor
Sealing Technique	Displacement Seal
Sealing Area(s)	Cable Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer, Adapter/Reducer





## CLASSIFICATIONS

NEC- Class I, Zone 1, AEx d IIC  
 Class I, Div. 1 & 2, Groups A,B,C & D  
 Class II, Div. 1 & 2, Groups E, F & G  
 Types 4X; IP66, IP67, IP68

NOTE: For IP67 and IP68 requirements the cable diameter "B" (minimum value) shown in table should be increased by 1.0 mm to ensure compliance.

CEC- Class I, Zone 1, Ex d IIC  
 Class I, Div. 1 & 2, Groups A,B,C & D  
 Class II, Div. 1 & 2, Groups E, F & G

File No. FLDW.E201187  
 FJDJ.E256367

## MARINE APPROVALS

Lloyds Approval No.: 01/00172  
 Gost K Cert. No.: KZ7500052.05.01.00063  
 RoK Approval No.: 08-06/7693  
 DNV Approval No.: E-8119  
 ABS Approval No.: 01-LD234401A/-PDA  
 Ingress Prot. Doc.: 5046 C549G  
 Deluge Prot. Compliance: DTS01 : 91  
 Deluge Prot. Doc.: 5046 C549G-D

Continuous Operating Temperature  
 +130°C (+266°F) Max.  
 -60°C (-76°F) Min.

## FEATURES

The PX2KX cable gland is suitable for use with armored and jacketed cable providing a compound barrier seal around the cable conductors and an environmental seal on the cable outer jacket. The cable gland provides mechanical cable retention and electrical continuity via the armor termination. A detachable armor cone and AnyWay universal clamping ring arrangement allows for easy disconnect from equipment for maintenance and change out. The design also allows remote make off procedures when termination is required in confined spaces or in areas of restricted access. The standard cable gland material is Brass with Electroless Nickel Plated Brass entry component as pictured above. Optional materials are: Aluminum or Stainless Steel.

# PX2KX Cable Glands

FOR WET & HAZARDOUS LOCATIONS



## Ordering Information (Dimensions in Inches)

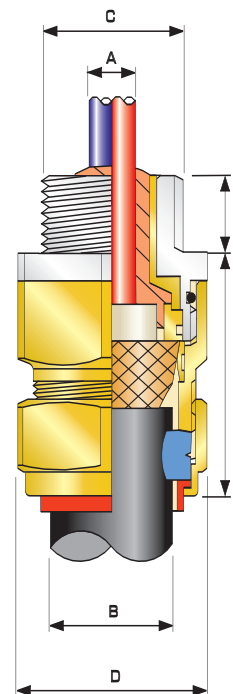
C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A MAX. DIA. OVER CNDCTR.	NO. OF CORES	B OVERALL CABLE DIAMETER		ARMOR RANGE		D ACROSS		F NOM. PRO- TRUSION LENGTH	PVC SHROUD REF.	CATALOG NUMBER
				MIN.	MAX.	MIN.	MAX.	FLATS MAX.	CRNRS MAX.			
1/2"	0.630	0.496	15	0.240	0.453	0.0	0.039	1.201	1.311	2.303	PVC06	20S16PX2KX1RA731
1/2"	0.630	0.496	15	0.374	0.626	0.0	0.039	1.201	1.311	2.303	PVC06	20SPX2KX1RA731
1/2"	0.630	0.496	15	0.492	0.823	0.0	0.039	1.201	1.311	2.382	PVC06	20PX2KX1RA731
3/4"	0.669	0.689	29	0.551	0.866	0.0	0.039	1.476	1.594	2.657	PVC09	25SPX2KX1RA732
3/4"	0.669	0.689	29	0.717	1.031	0.0	0.039	1.476	1.594	2.657	PVC09	25PX2KX1RA732
1"	0.787	0.929	51	0.933	1.335	0.0	0.039	1.811	2.008	2.736	PVC11	32PX2KX1RA733
1-1/4"	0.787	1.181	80	1.098	1.591	0.0	0.039	2.165	2.402	3.071	PVC15	40PX2KX1RA734
1-1/2"	0.787	1.441	122	1.386	1.839	0.0	0.039	2.362	2.618	2.972	PVC18	50SPX2KX1RA735
2"	0.906	1.614	149	1.591	2.091	0.0	0.039	2.756	3.094	3.169	PVC21	50PX2KX1RA736
2"	0.906	1.886	205	1.795	2.339	0.0	0.039	2.953	3.276	3.602	PVC23	63SPX2KX1RA736
2-1/2"	0.984	2.114	259	2.150	2.594	0.0	0.039	3.150	3.504	3.622	PVC25	63PX2KX1RA737
2-1/2"	0.984	2.354	320	2.323	2.839	0.0	0.039	3.504	4.000	3.898	PVC28	75SPX2KX1RA737
3"	1.417	2.531	364	2.626	3.091	0.0	0.039	3.898	4.374	4.016	PVC30	75PX2KX1RA738
3-1/2"	1.417	2.965	500	3.000	3.559	0.0	0.063	4.488	5.063	4.724	PVC32	90PX2KX1RA739

The standard Material is Brass with Electroless Nickel Plated Entry component, indicated by a 7 in the Catalog Number. For other Material Options change the 7 to the indicated number of the material options:

- Insert Material Option**
- 1 - Aluminum
  - 4 - Stainless Steel
  - 5 - Brass - Fully Electroless Nickel Plated

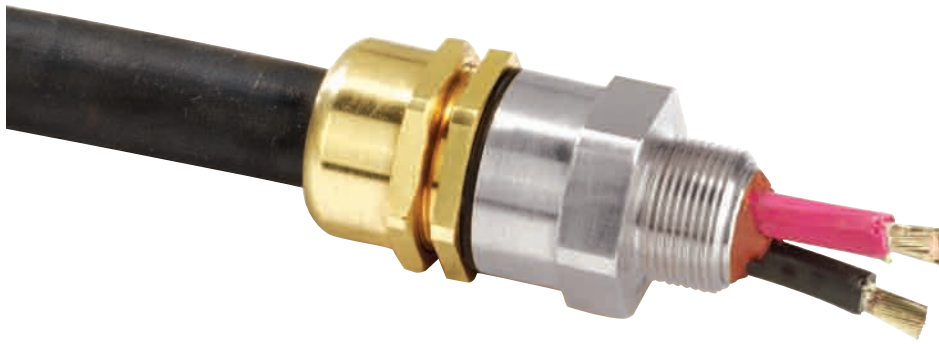
## Technical Data

TYPE	PX2KX
Standard Gland Material	Brass with Electroless Nickel Plated Entry Component
Optional Gland Material	Aluminum or Stainless Steel
Sealing Material	SOLO LSF Thermoplastic Elastomer / Epoxy Resin Barrier Compound
Cable Type	Armored & Jacketed
Armor Clamping	Detachable Compound Tube / Armor Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique "LRS" <sup>™</sup> Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & Cable Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer, Adapter/Reducer



# PXSS2K Cable Glands

FOR WET & HAZARDOUS LOCATIONS



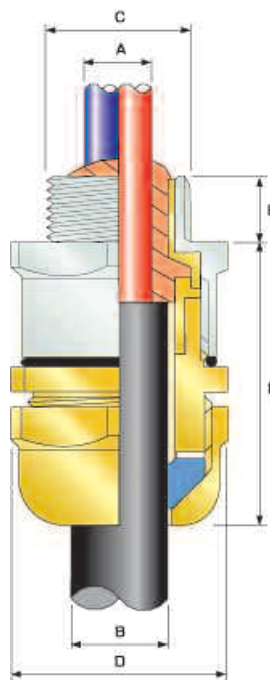
## Ordering Information (Dimensions in Inches)

C CABLE GLAND SIZE NPT	E MIN. THREAD LENGTH	A MAX. DIA. OVER CNDCTR.	NO. OF CORES	B OVERALL CABLE DIAMETER		D ACROSS		F NOM. PRO- TRUSION LENGTH	PVC SHROUD REF.	CATALOG NUMBER
				MIN.	MAX.	FLATS MAX.	CRNRS. MAX.			
1/2"	0.630	0.496	15	0.122	0.343	1.201	1.311	2.303	PVC04	20S16PXSS2K1RA731
1/2"	0.630	0.496	15	0.240	0.470	1.201	1.311	2.303	PVC04	20SPXSS2K1RA731
1/2"	0.630	0.496	15	0.260	0.530	1.201	1.311	2.382	PVC05	20PXSS2K1RA731
1/2"	0.630	0.496	15	0.390	0.630	1.201	1.311	2.382	PVC05	20LPXSS2K1RA731
3/4"	0.669	0.689	29	0.440	0.780	1.476	1.594	2.657	PVC09	25PXSS2K1RA732
1"	0.787	0.929	51	0.670	1.030	1.811	2.008	2.736	PVC10	32PXSS2K1RA733
1"	0.787	0.929	51	0.790	1.079	1.811	2.008	2.736	PVC10	32LPXSS2K1RA733
1-1/4"	0.787	1.181	80	0.870	1.260	2.165	2.402	3.071	PVC13	40PXSS2K1RA734
1-1/2"	0.787	1.441	122	1.160	1.500	2.362	2.618	2.972	PVC15	50SPXSS2K1RA735
2"	0.906	1.614	149	1.400	1.730	2.756	3.094	3.169	PVC18	50PXSS2K1RA736
2"	0.906	1.886	205	1.580	1.960	2.953	3.276	3.602	PVC21	63SPXSS2K1RA736
2-1/2"	0.984	2.114	259	1.860	2.200	3.150	3.504	3.622	PVC23	63PXSS2K1RA737
2-1/2"	0.984	2.354	320	2.080	2.440	3.504	4.000	3.898	PVC24	75SPXSS2K1RA737
3"	1.417	2.531	364	2.330	2.670	3.898	4.374	4.016	PVC26	75PXSS2K1RA738
3-1/2"	1.417	2.965	500	2.620	3.120	4.488	5.063	4.724	PVC31	90PXSS2K1RA739

The standard Material is Brass with Electroless Nickel Plated Entry component, indicated by a 7 in the Catalog Number. For other Material Options change the 7 to the indicated number of the material options:

## Technical Data

TYPE	PXSS2K
Standard Gland Material	Brass with Electroless Nickel Plated Entry Component
Optional Gland Material	Electroless Nickel Plated Brass, Aluminum or Stainless Steel
Seal Material	SOLO LSF Thermoplastic Elastomer / Epoxy Resin Barrier Compound
Cable Type	Non-Armored Marine & Tray Cable & Extra-Hard Usage Cord
Sealing Technique	Displacement Seal
Sealing Area(s)	Inner Compound Barrier & Cable Outer Jacket
Optional Accessories See page J9	Locknut, Shroud, Entry Thread Seal, Serrated Washer, Adapter/Reducer



- Insert Material Option**
- 1 - Aluminum
  - 4 - Stainless Steel
  - 5 - Brass - Fully Electroless Nickel Plated Brass

## ACCESSORIES



### CLASSIFICATIONS

NEC- Class I, Zone 1, AEx d IIC, AEx e II Class I, Div. 2, Groups A,B,C & D Class II, Div. 2, Groups F & G Types 4X; IP66, IP67, IP68

NOTE: For IP67 and IP68 requirements the cable diameter "B" (minimum value) shown in table should be increased by 1.0 mm to ensure compliance.

CEC- Class I, Div. 2, Groups A,B,C & D Class I, Div. 2, Groups F & G Ex d IIC, Ex e II

 File No. FLDW.E201187, CYMX.E161256 & EBMB.E253914

### MARINE APPROVALS

Lloyds Approval No.: 01/00172  
Gost K Cert. No.: KZ7500052.05.01.00063  
RoK Approval No.: 08-06/7693  
DNV Approval No.: E-8119  
ABS Approval No.: 01-LD234401A/1-PDA  
Ingress Prot. Doc.: 5046 C549J  
Deluge Prot. Compliance: DTS01 : 91  
Deluge Prot. Doc.: 5046 C549J-D

Continuous Operating Temperature  
+100°C (+212°F) Max.  
-60°C (-76°F) Min.

### FEATURES

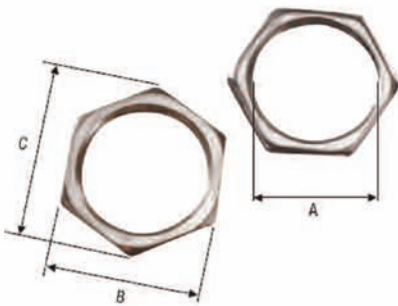
The PXSS2K cable gland is suitable for use with non-armored Marine and Tray Cable (Type TC) and Extra-Hard Usage Cord, providing a compound barrier seal around the cable gland and an environmental seal on the cable outer jacket. The cable gland provides mechanical cable retention. A combined detachable spacer and compound tube allows for easy disconnect from equipment for maintenance and change out etc. This feature also facilitates remote make off procedures when termination is required in confined spaces or in areas of restricted access.

The standard cable gland material is Brass with Electroless Nickel Plated Brass entry component as pictured above. Optional materials are: Nickel Plated Brass, Aluminum or Stainless Steel.



FOR WET & HAZARDOUS LOCATIONS

**Locknuts**



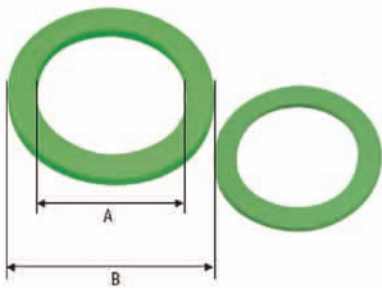
Electroless Nickel Plated Brass Locknuts are the recommended items for securing brass cable glands with nickel plated entry components.

This prevents the electrolytic action of galvanic corrosion which can occur when dissimilar metals are coupled together.

**Ordering Information**

A NPT THREAD DIAMETER	MIN. THICKNESS.		B ACROSS FLATS DIMENSIONS		C ACROSS CORNERS DIAMETER		CATALOG NUMBER
	IN.	(mm)	IN.	(mm)	IN.	(mm)	
1/2"	0.19	4.75	1.06	27.0	1.15	29.3	050NPTLN5
3/4"	0.19	4.75	1.30	33.0	1.41	35.8	075NPTLN5
1"	0.18	4.50	1.61	41.0	1.77	45.0	100NPTLN5
1-1/4"	0.19	4.75	1.97	50.0	2.10	53.4	125NPTLN5
1-1/2"	0.20	5.10	2.36	60.0	2.72	69.0	150NPTLN5
2"	0.20	5.10	2.76	70.0	3.16	80.2	200NPTLN5
2-1/2"	0.39	10.0	3.11	79.0	3.56	90.5	250NPTLN5
3"	0.39	10.0	4.25	108.0	4.84	123.0	300NPTLN5
3-1/2"	0.45	11.5	4.49	114.0	5.16	131.0	350NPTLN5

**Sealing Washers**

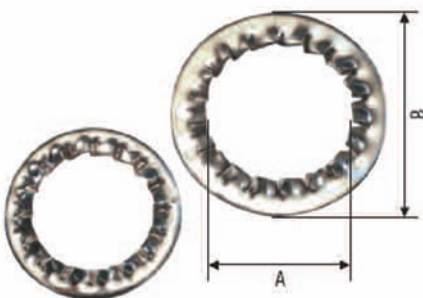


To maintain the Ingress Protection rating between the equipment and cable gland it is necessary to fit an Entry Thread Sealing washer at the gland entry interface.

**Ordering Information**

A NPT REF. DIAMETER	MIN. THICKNESS.		B EXTERNAL DIAMETER		CATALOG NUMBER
	IN.	(mm)	IN.	(mm)	
1/2"	0.08	2.0	1.13	28.6	050NPTETS
3/4"	0.08	2.0	1.38	35.0	075NPTETS
1"	0.08	2.0	1.75	44.5	100NPTETS
1-1/4"	0.08	2.0	2.00	50.8	125NPTETS
1-1/2"	0.08	2.0	2.56	65.0	150NPTETS
2"	0.08	2.0	3.00	76.2	200NPTETS
2-1/2"	0.08	2.0	3.74	95.0	250NPTETS
3"	0.08	2.0	4.33	110.0	300NPTETS

**Serrated Washers**



These stainless steel serrated washers fitted internally to the equipment, before the application of a locknut prevent the locknuts from loosening in service.

**Ordering Information**

A NPT REF. DIAMETER	MIN. THICKNESS.		B OUTER DIAMETER		CATALOG NUMBER
	IN.	(mm)	IN.	(mm)	
1/2"	0.15	3.7	1.26	32.0	050NPTSW4
3/4"	0.15	3.7	1.57	40.0	075NPTSW4
1"	0.15	3.7	1.73	44.0	100NPTSW4
1-1/4"	0.15	3.7	2.32	59.0	125NPTSW4
1-1/2"	0.15	3.7	3.15	80.0	150NPTSW4
2"	0.18	4.5	3.94	100.0	200NPTSW4
2-1/2"	0.20	5.0	4.41	112.0	250NPTSW4
3"	0.20	5.0	4.72	120.0	300NPTSW4
3-1/2"	0.25	6.3	5.91	150.0	350NPTSW4