



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
LittleRock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 8/21/2025

Return Request: 9/4/2025

Project: Hot Springs National Park – Rehabilitate Bathhouses – Buckstaff Bathhouse

Supplier: Comfort Systems USA (Arkansas), Inc.

Manufacturer: Varies

Submittal: Meters and Gages for HVAC Piping

Submittal Number: 230519.001

Spec Section: 230519, 2.2 through 2.6

Drawing # and Installation Location: M3-1 through M3-4, and M4-1

ARCHITECT

Kenneth Hahn Architects, Inc.
1343 S. 75th Street
Omaha, Nebraska 68124
(402)391-2111

GENERAL CONTRACTOR

Tepa, LLC
2345 Grand Blvd, Suite 700
Kansas City, Missouri 64108
(816)708-1110

ENGINEER

Alvine Engineering
1201 Cass Street
Omaha, Nebraska 68102
(402)346-7007

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Road
North Little Rock, Arkansas 72117
(501)834-3320

Comments:

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

9924 Landers Road
No. LittleRock, AR 72117



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Spec Section 230519, 2.2, A.

Pressure Gauges

620B

Stainless Steel Case

COMMERCIAL • CONTRACTOR GAUGES



620B shown



- ▶ 4 1/2" Dial Size
- ▶ ±1.0% Accuracy
- ▶ Stainless Steel Case
- ▶ Recalibrator Screw

The **620B** Trerice Contractor Gauge is designed to service the general pressure measurement requirements of the construction industry. The 620B offers high reliability at an economic price. This gauge features a corrosion resistant, stainless steel case and acrylic window. Wetted parts are Lead-Free (PBF) brass.

- For correct use and application of all pressure gauges, please refer to: Pressure Gauge Standard ASME B40.100.

Specifications

Model

620B

Dial Size 4 1/2"

Wetted Parts

Bronze tube, brass socket
Lead-Free (PBF)
Meets NSF/ANSI Standards
372 and 61

Movement Brass

Connection Lower male, 1/4 NPT

Case 304 stainless steel,
stem-mounted flangeless

Ring Friction type,
304 stainless steel

Window Acrylic

Pointer Plain, black finished
Adjustable via screw on dial face

Dial Face Aluminum, white background with
black graduations and markings

Accuracy ±1.0% Full Scale,
ASME B40.100 Grade 1A

Maximum Temperature
212°F (100° C)

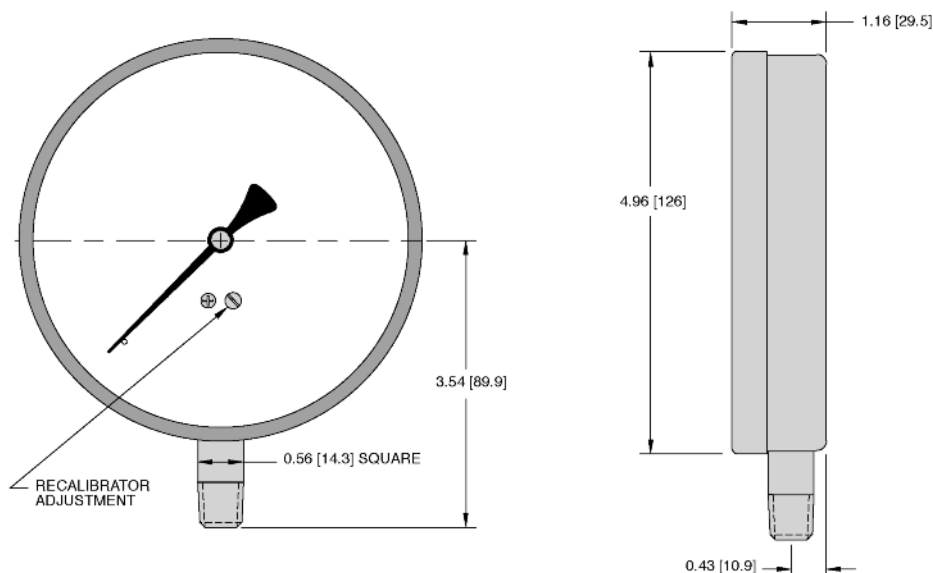
Approximate Shipping Weight
0.8 lbs [0.36 kg]

HOW TO ORDER

Sample Order Number: **620B 45 02 L D 140**

Model	Dial Size	Connection Size	Connection Location	Units of Measure	Range Code
620B	45 4 1/2"	02 1/4 NPT	L Lower	A psi D psi/kPa	See Standard Ranges

All dimensions are nominal. Dimensions in [] are in millimeters.



Standard Ranges

psi Ranges (A)				psi/kPa Ranges (D)					
Range Code	Specific Range (psi)	Figure Intervals	Minor Divisions	Range Code	Specific Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
010	30" Hg to 0	5	0.5	010	30" Hg to 0 / -100 to 0 kPa	5	0.5	10	1
020	30" Hg to 15 psi	10/5	1/0.5	020	30" Hg to 15 psi / -100 to 100 kPa	10/5	1/0.5	20/20	2/2
030	30" Hg to 30 psi	10/5	1/1	030	30" Hg to 30 psi / -100 to 200 kPa	10/5	1/1	50/50	5/5
040	30" Hg to 60 psi	10/10	2/1	040	30" Hg to 60 psi / -100 to 400 kPa	10/10	2/1	100/100	10/10
050	30" Hg to 100 psi	30/20	2/2	050	30" Hg to 100 psi / -100 to 700 kPa	30/20	2/2	100/100	10/10
060	30" Hg to 150 psi	30/30	5/2	060	30" Hg to 150 psi / -100 to 1000 kPa	30/30	5/2	100/100	10/10
070	30" Hg to 300 psi	30/50	5/5	070	30" Hg to 300 psi / -100 to 2000 kPa	30/50	5/5	100/200	20/20
080	0 to 15 psi	3	0.2	080	0 to 15 psi / 0 to 100 kPa	3	0.2	10	1
090	0 to 30 psi	5	0.5	090	0 to 30 psi / 0 to 200 kPa	5	0.5	20	2
100	0 to 60 psi	10	1	100	0 to 60 psi / 0 to 400 kPa	10	1	50	5
110	0 to 100 psi	10	1	110	0 to 100 psi / 0 to 700 kPa	10	1	100	5
120	0 to 160 psi	20	2	120	0 to 160 psi / 0 to 1100 kPa	20	2	200	10
130	0 to 200 psi	20	2	130	0 to 200 psi / 0 to 1400 kPa	20	2	300	10
140	0 to 300 psi	50	5	140	0 to 300 psi / 0 to 2000 kPa	50	5	200	20
150	0 to 400 psi	50	5	150	0 to 400 psi / 0 to 2800 kPa	50	5	300	50
160	0 to 600 psi	100	10	160	0 to 600 psi / 0 to 4000 kPa	100	10	500	50



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Spec Section 230519, 2.3, A.

Pressure Gauge Tappings

865/880 Series

Gauge Cocks

865/880 Series Quarter Turn Gauge Cocks provide an economical way to shut off the flow of air to the pressure instrument, thereby allowing the instrument to be isolated from the pressure media or removed from service. Trerice Gauge Cocks are constructed from brass and are intended for use on air lines where leakage is not of concern. **It is recommended to place a needle valve, ball valve or gauge cock in line before every pressure gauge installation.**

In applications where process media leakage may result in possible personal injury or property damage, gauge cocks should not be specified as they contain no packing gland and leakage may result. For tight shut-off and prevention of leakage, use of a Trerice Ball Valve or Needle Valve is required.



865



865MFG



865-1



880

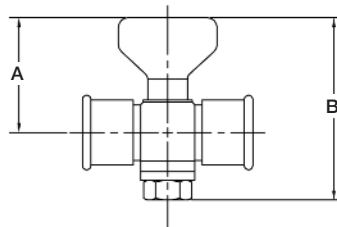
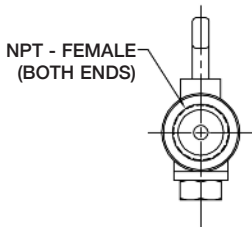
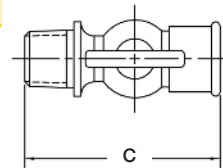
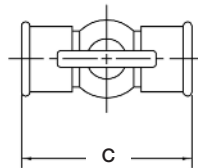
865/880 Series Gauge Cocks

Item No.	Type	Connection Size	Body	Plug	Maximum Pressure (psig)	Maximum Temperature	Approximate Shipping Weight
865	FXF	1/4 NPT	Brass*	Brass	200	500°F	0.1 lbs [0.05 kg]
865MFG	MXF	1/4 NPT	Brass*	Brass	200	500°F	0.1 lbs [0.05 kg]
865-1	FXF	1/4 NPT	Brass	Brass	300	500°F	0.3 lbs [0.14 kg]
880	MXF	1/4 Union	Brass	Brass	150	500°F	0.5 lbs [0.23 kg]

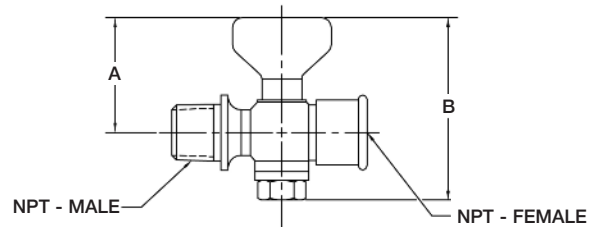
* Add (PBF) to the end of part number to specify Lead-Free brass.

All dimensions are nominal. Dimensions in [] are in millimeters.

Part No.	A	B	C	NPT
865	1.09 [28]	1.73 [44]	1.62 [41]	1/4 - 18
865-1	1.04 [26]	1.78 [45]	2.26 [41]	1/4 - 18
865MFG	1.09 [28]	1.73 [44]	1.86 [47]	1/4 - 18
880	1.12 [28]	1.82 [46]	3.31 [84]	1/4 - 18



865 & 865-1



865MFG & 880



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Spec Section 230519, 2.4, A.

Stem-Type Thermometers

Adjustable Angle

7" • 9" • 12" Scale Sizes

INDUSTRIAL THERMOMETERS



BX91403 shown

- ▶ 7", 9", 12" Scale
- ▶ ± 1 Scale Division Accuracy
- ▶ Cast Aluminum Case
- ▶ Adjustable Angle Stem

Recognized globally as the Trerice **"BX" Industrial Thermometer**, this is an instrument of extreme accuracy and rugged dependability. Available in scale sizes of 7" (AX9), 9" (BX9), & 12" (CX9), with a durable cast aluminum case, this universally adjustable, liquid-in-glass thermometer is the most widely specified instrument of its kind.

- Optional features available: Please consult the Options & Accessories Section for details.

Thermowell

- For applications where the process media may be corrosive or contained under pressure, the use of a thermowell is required to prevent damage to the thermometer and facilitate its removal from the process. (Refer to page 158)

Specifications

Models	Scale Sizes	
AX9 BX9 CX9	7" 9" 12"	Adjustable Angle
Fill Type	Spirit: Blue colored, organic	
Case	Cast Aluminum, blue epoxy finish	
Stem	Aluminum, brass, 304 stainless steel or air-duct style available	
Connection	Standard: 1 1/4 - 18 UNEF-2A coupling nut Air-Duct: Reversible mounting flange with 3 bolt holes	
Window	Ultraviolet protective acrylic on ranges to 300° F Glass on ranges over 300° F	
Tube	Lens front, magnifying type	
Scale	Aluminum, white background with black graduations and markings	
Top Plate	ABS	
Accuracy	± 1 scale division	
Approximate Shipping Weight	AX9: 1.5 lbs [0.68 kg] BX9: 1.6 lbs [0.73 kg] CX9: 2.0 lbs [0.91 kg]	

HOW TO ORDER

Sample Order Number: **BX9 1 403 07**

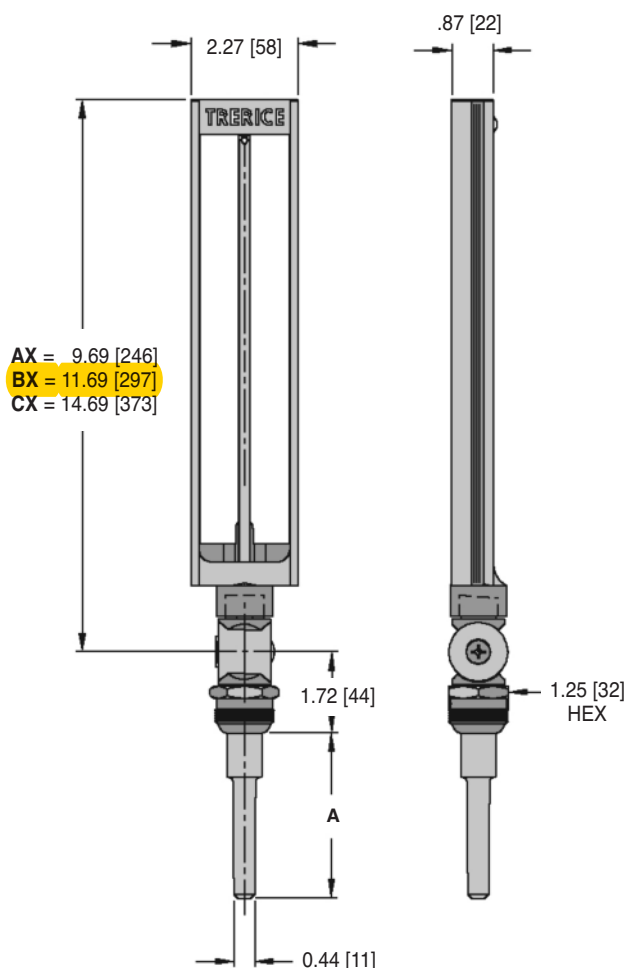
Model	Stem (Material)	Stem (Length)	Specific Range
AX9 7" Adjustable	1 Aluminum (standard)	403 31 1/2"	See Standard Ranges
BX9 9" Adjustable	2 Brass	406 6"	
CX9 12" Adjustable	3 304 SS	408 8"	
		512 12"	
	9 Air-Duct (Aluminum)*	006 6" Air-Duct	
		012 12" Air-Duct	

* Not for use with Thermowells

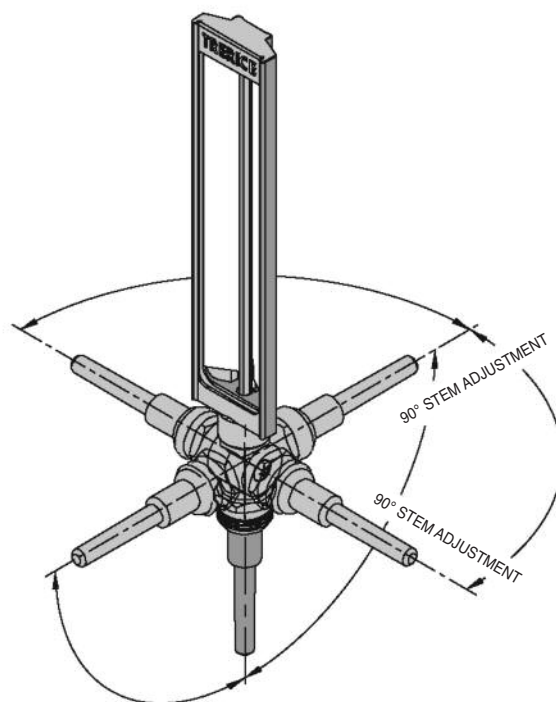
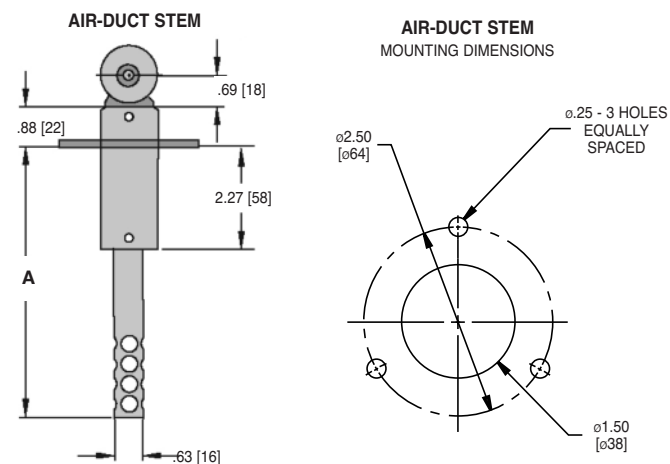
Adjustable Angle

All dimensions are nominal.
Dimensions in [] are in millimeters.

INDUSTRIAL THERMOMETERS



(A) Stem Length	Dimension	
3 1/2"	3.50	[88.9]
6"	6.00	[152.4]
8"	8.00	[203.2]
12"	12.00	[304.8]



Standard Ranges

Fahrenheit Scale		Celsius Scale		Dual Scale		Fahrenheit		Celsius	
Range Code	Range	Range Code	Range	Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
01	-40° to 110°F	17	-40° to 40°C	41	-40° to 110°F & -40° to 40°C	10°	2°	5°	1°
02	0° to 100°F	24	-18° to 38°C	42	0° to 100°F & -18° to 38°C	5°	1°	5°	0.5°
03	30° to 130°F	25	0° to 55°C	43	30° to 130°F & 0° to 55°C	5°	1°	5°	1°
04	0° to 160°F	26	-18° to 70°C	44	0° to 160°F & -18° to 70°C	10°	2°	5°	1°
06	30° to 180°F	27	0° to 83°C	46	30° to 180°F & 0° to 83°C	10°	2°	5°	1°
07	30° to 240°F	19	0° to 115°C	47	30° to 240°F & 0° to 115°C	10°	2°	5°	1°
08	30° to 300°F	20	0° to 150°C	48	30° to 300°F & 0° to 150°C	10°	2°	10°	2°
09	50° to 400°F	28	10° to 205°C	49	50° to 400°F & 10° to 205°C	25°	5°	10°	2°
15	50° to 500°F	31	10° to 260°C	55	50° to 500°F & 10° to 260°C	25°	5°	10°	2°

Dual scale figure intervals may differ



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Spec Section 230519, 2.5, A.

Thermometer Supports

Thermowells

for Industrial Thermometers

All dimensions are nominal. Dimensions in [] are in millimeters.

Thermowells

- SX9 Solar
- AX9, BX9, CX9 Adjustable Angle
- AX, BX, CX Rigid Stem
- BX Plus

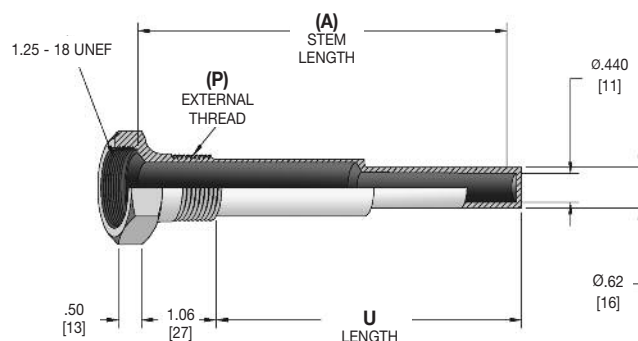
Lengths

	Standard	with Lagging Extension	
(A) Stem Length	U Length	(T)	U Length
3 1/2"	2.50 [64]	1.00 [25]	1.75 [44]
6"	5.00 [127]	3.00 [76]	2.50 [64]
8"	7.00 [178]	3.00 [76]	4.50 [114]
12"	11.00 [279]	3.00 [76]	8.50 [216]

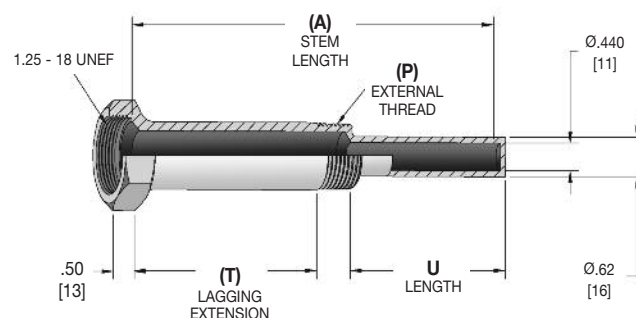
Pressure Rating (psi)

Material	Operating Temperature			
	70°F	200°F	400°F	600°F
304 Stainless Steel	630	570	460	380
316 Stainless Steel	650	600	570	500
Monel	540	480	440	400
Brass/PBF Brass	300 psi @ 150°F		250 psi @ 350°F	

Standard



with Lagging Extension



Alternative materials and accessories are also available. Please consult the Options and Accessories Section for details.

Selection of the proper thermowell is the sole responsibility of the user. Temperature and pressure limitations must be considered. Improper application may cause failure of the thermowell, resulting in possible personal injury or property damage.

HOW TO ORDER

Sample Order Number: **3-4 F 2**

Thermowell Style	(P) External Thread	(A) Stem Length	(T) Lagging Extension	Material
3 - Industrial	3 1/2 NPT*	F 3 1/2" Stem**	A 1" Extension (3 1/2" Stem only)	2 Brass††
	4 3/4 NPT	J 6" Stem	D 2 1/2" Extension (6" and longer Stem only)	4 Monel
	5 1 NPT	L 8" Stem	Omit if None	5 304SS
		R 12" Stem†		6 316SS

* Only available with 3 1/2" stem and 1" extension.

** 3 1/2" stem Straight Shank.

† 12" stem requires 1 NPT external thread.

†† Add (PBF) to end of part number to specify Lead-Free brass



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Spec Section 230519, 2.6, A.

Test Plugs

Test Plugs & Accessories

The **Trerice Test Plug** provides a convenient access port for determining the pressure and/or temperature of process media contained in a pipe line or vessel. The test plug is designed for use in chilled or hot water systems and is permanently installed in the system at the desired test location. A test thermometer or pressure gauge with test adapter can be inserted through the plug to determine the conditions within the system. When the probe is withdrawn, the inner valve plug closes to seal the system. The test plug includes a removable cap to protect the inner valve plug and provide a secondary seal.



D3742 shown

Nordel, otherwise known as EPDM, provides excellent service in hot or cold water. **Nordel should not be used with hydrocarbon solvents, hydrocarbon oils, chlorinated hydrocarbons or turpentine.**

Neoprene, a synthetic rubber, provides excellent service in ammonia, high aniline point petroleum oils and silicate ester lubricants. **Neoprene should not be used with silicone greases, silicone oils or di-ester based lubricants.**

Test plugs are designed for initial startup and testing, not continuous or frequent use. If continuous or frequent use is desired or expected, a test well should be installed for temperature applications and a needle valve installed for pressure applications.

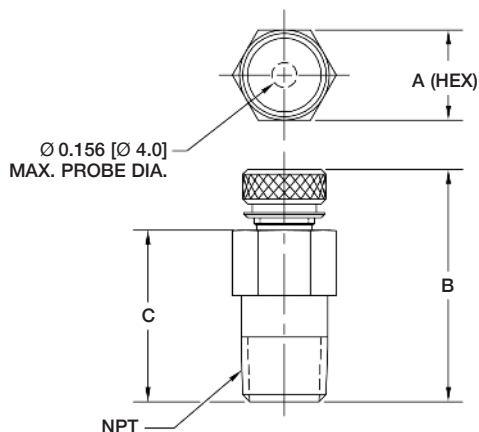
Tests should be made as quickly as possible because the inner plug resealing time is dependent upon the length of time the probe remains inserted, as well as the temperature and pressure of the system. The test plug may take longer to reseal at lower temperatures or pressures. The probe used for testing should never exceed a diameter of 0.156" (4 mm). The pressure gauge used for testing should always have a range of twice the system pressure.

PRESSURE GAUGES

Test Plugs

Test Plug Item No.	Test Plug with Retainer Item No.	Connection Size (NPT)	Body Length	Body & Cap	Core	Max Pres. (psig)	Max Temp.	Approximate Shipping Weight
D3741	D3764	1/4	1 1/2"	Brass*	Nordel	1000	350°F	0.1 lbs [0.05 kg]
D3743	D3763	1/4	1 1/2"	Brass*	Neoprene	1000	200°F	0.1 lbs [0.05 kg]
D3758	D3766	1/4	1 1/2"	316SS	Nordel	1000	350°F	0.1 lbs [0.05 kg]
D3757	D3765	1/4	1 1/2"	316SS	Neoprene	1000	200°F	0.1 lbs [0.05 kg]
D3742	D3770	1/2	1 1/2"	Brass*	Nordel	1000	350°F	0.2 lbs [0.09 kg]
D3744	D3769	1/2	1 1/2"	Brass*	Neoprene	1000	200°F	0.2 lbs [0.09 kg]
D3762	D3772	1/2	1 1/2"	316SS	Nordel	1000	350°F	0.2 lbs [0.09 kg]
D3761	D3771	1/2	1 1/2"	316SS	Neoprene	1000	200°F	0.2 lbs [0.09 kg]
D3767	D3773	1/4	3"	Brass	Nordel	1000	350°F	0.4 lbs [0.18 kg]
D3768	D3774	1/4	3"	Brass	Neoprene	1000	200°F	0.4 lbs [0.18 kg]

* Add (PBF) to the end of part number to specify Lead-Free brass.



All dimensions are nominal. Dimensions in [] are in millimeters.

Part No.	A	B	C	NPT
D3741	0.56 [14]	1.50 [38]	1.06 [27]	1/4 - 18
D3743				
D3758				
D3757				
D3742	0.88 [22]	1.50 [38]	1.06 [27]	1/2 - 14
D3744				
D3762				
D3761				
D3767	0.56 [14]	3.00 [76]	2.56 [65]	1/4 - 18
D3768				