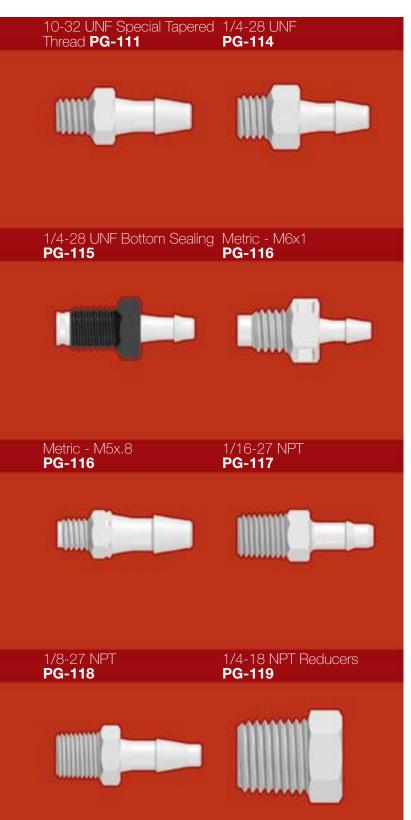
# **THREADED**

Fittings





#### The X Thread

Nordson MEDICAL X Series components have a tapered 10-32 thread that functions like a pipe thread. In comparison to standard 10-32 UNF threaded fittings, the tapered design works better with oversized ports and ports which are not perpendicular to the face of the component.

The 120 degree chamfer under the hex provides a seal when the fitting is tightened into a port with a countersink as shown below. It also seals on the thread due to interference on the pitch diameter. When using an elbow or tee, the tapered thread tightens radially and facilitates directional alignment of the barb.

#### Other Thread Series

K, B, C and D Series fittings, designed for use with 10-32 UNF ports, are straight-threaded components. These fittings seal against the 120 degree chamfer under the hex on the fitting and do not tighten radially as they are assembled. S Series fittings are straight threaded components for 1/4-28 UNF ports, M5 Series are for M5 x .8 ports and M6 Series are for M6 x 1 ports.

Part numbers for fittings with pipe threads are noted below. Those for use with 1/16-27 NPT ports have part numbers prefixed with 16; those for 1/8-27 NPT ports have part numbers prefixed with 18; and those for 1/4-18 NPT ports have part numbers prefixed with 14.

The features shown below must be incorporated into the port when using our B, C, D, X, K, S, M5 and M6 Series fittings. Failure to do so will jeopardize the performance of the seal between the fitting and port. For applications in which this seal is highly critical, we recommend that you contact a sealant specialist.

When working with threaded parts, Nordson MEDICAL strongly recommends that you test sample parts in your application.

$A \longrightarrow \begin{array}{c} & & \\ &$	Nordson MEDICAL's Thread Series	Dimension A Thread Length	Clearance Needed to Achieve Chamfer Seal	Dimension B Countersink Diameter	Feature C Internal Screw Thread Series
	X	.200"	.250"	.210"230"	10-32 UNF 2B
	K, B, C, D	.156"	.200"	.210"230"	10-32 UNF 2B
	S	.204"	.250"	.270"290"	1/4-28 UNF 2B
	M5	.192"	.250"	.210"230"	M5 X .8
_(	M6	.235"	.375"	.270"290"	M6 X 1

#### K10 (-1 -J1A)

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



#### X10 (-2)

10-32 Special Tapered Thread with 1/4" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



#### K210 (-1 -3 -5 -6005 -J1A)

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### X210 (-1 -2 -3 -6005 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### K410 (-1 -2 -J1A)

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### X410 (-6005)

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### D (-3 -4 -5 -J1A)

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



#### K220 (-1 -6005 -6012)

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### X220 (-1 -2 -6005 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### K420 (-1 -6005)

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### X420 (-1 -2 -6005 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### B (-3 -4 -5 -6005 -J1A)

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



#### C (-3 -4 -5 -J1A)

10-32 UNF Thread with 1/4" Hex to Classic Series Barb, Short Neck, 1/8" (3.2 mm) ID Tubing



#### K230 (-1 -2 -6005 -J1A)

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### X230 (-1 -2 -6005 -6012 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### K430 (-1 -2 -6005 -J1A)

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### X430 (-1 -3 -6005)

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### K240 (-2 -6005)

10-32 UNF Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



## X240 (-1 -2 -J1A)

10-32 Special Tapered Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



#### K445 (-6005 -J1A)

10-32 UNF Thread with 1/4" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



#### X445 (-2 -6005)

10-32 Special Tapered Thread with 1/4" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



#### 110 THREAD:

#### 10-32 UNF, Special Tapered Thread Elbow

#### KL210 (-1 -6005)

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### XL210 (-1 -2 -6005 -J1A)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### KL410 (-1 -2 -6005 -J1A)

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### XL410 (-1 -6005)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### KL220 (-1 -J1A)

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### XL220 (-1 -2 -6012)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### KL420 (-1 -2 -6005 -J1A)

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### XL420 (-6005)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### KL230 (-1)

10-32 UNF Thread Elbow with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### XL230 (-1 -2 -6005)

10-32 Special Tapered Thread Elbow with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### KL430 (-1 -6005 -J1A)

10-32 UNF Thread Elbow with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



## **Custom Assembly**

We produce standard components to fit your current assemblies and devices, but we also provide custom solutions by applying a variety of assembly options, such as joining fittings, connectors, filters, and other components to tubing. From systems using a single fitting to complex configurations utilizing various components, we can design complete assemblies to your requirements.

#### KT210 (-6005)

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### XT210 (-J1A)

10-32 Special Tapered Thread Tee with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### KT410 (-1 -2 -6005 -J1A)

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### XT410 (-1 -2 -6005)

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### KT220 (-2 -6005 -J1A)

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### XT220 (-J1A)

10-32 Special Tapered Thread Tee with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



## Part Drawings Online!

Nordson MEDICAL provides dimensional drawings

www.nordsonmedical.com

#### KT420 (-1 -2 -6005)

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### XT420 (-1 -2 -6005)

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### KT230 (-6005 -J1A)

10-32 UNF Thread Tee with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### KT430 (-1 -2 -6005 -J1A)

10-32 UNF Thread Tee with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### XT430 (-1 -6005 -J1A)

10-32 Special Tapered Thread Tee with 1/4" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### THREAD:

10-32 UNF, Special Tapered Thread Couplers and Plugs

10-32 UNF Thread Coupler with 1/4" Hex



#### XN (-2 -6005 -J1A)

10-32 Special Tapered Thread Coupler with 1/4" Hex



#### KP (-6005 -6012)

10-32 UNF Thread Plug with 1/4" Hex



## **Looking for Something Different?**

FMF-sales@nordsonmedical.com describing your



#### THREAD:

1/4-28 UNF

#### S10 (-2 -J1A)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



## S210 (-6005 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### S410 (-1 -2 -6005 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### S20 (-2 -6005)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



#### S220 (-2 -6005)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### S420 (-1 -2 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### S30 (-6005 -J1A)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



#### S230 (-1 -2 -6005 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



## THREAD: 1/4-28 UNF Bottom Sealing

#### S430 (-2 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



### S40 (-6005)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing



### S240 (-6005)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



#### S445 (-2 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



#### S50 (-1)

1/4-28 UNF Thread with 5/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing



## S250 (-J1A)

1/4-28 UNF Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



#### S450 (-2 -J1A)

1/4-28 UNF Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing



#### SP (-1 -6005)

1/4-28 UNF Thread Plug with 5/16" Hex



#### ABR004-6005 UNDER (-1 -2)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### ABR004-J1A UNDER (-1 -2 -3 -4 -J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/16" (1.6 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### ABR007-6005 UNDER (-1 -2 -4)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### **ABR007-J1A UNDER (-2)**

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 3/32" (2.4 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### ABR013-6005 UNDER (-1 -4 -6012)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### ABR013-J1A UNDER (-1 -4 -J1A)

1/4-28 UNF Bottom Sealing Rotating Thread with 5/16" Hex to 500 Series Barb, 1/8" (3.2 mm) ID Tubing



Recommended torque: Polypropylene - 1.5-2 in. lbs. Kynar® - 2-4 in. lbs.

#### **TECS116 (-J1A)**

1/4-28 UNF Bottom Sealing Thread Tube End Coupler with 5/16" Hex, 1/16" (1.6 mm) OD Tubing





#### TECS118 (-J1A)

1/4-28 UNF Bottom Sealing Thread Tube End Coupler with 5/16" Hex, 1/8" (3.2 mm) OD Tubing





## THREAD: M6x1

#### M6210 (-2 -6005)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### M6410 (-1 -2 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### M6220 (-2 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### M6420 (-1 -2 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### M6230 (-1 -2 -6005)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### M6430 (-6005)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### M6240 (-2 -6005)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



#### M6445 (-1 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



## **Need Samples for Evaluation?**

You can call to request most of our standard product in quantities of 5, or less, for free application evaluation.

+1 (970) 267-5200 Toll Free: (888) 404-5837

## THREAD: M6x1

#### M6250 (-1 -2 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



#### M6450 (-1 -2 -6005 -J1A)

M6x1 Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing



#### M6P (-J1A)

M6x1 Thread Plug with 5/16" Hex



#### **THREAD:**

M5x.8

#### M5210 (-1 -6005)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### M5220 (-1 -6005)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### M5230 (-1 -2 -6005)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### M5240 (-2)

M5x.8 Thread with 1/4" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



### Need it Fast?

You can order any of our 9,600+ parts online now with no order \$ minimums, 24 hours a day, 7 days a week!

www.nordsonmedical.com

## **THREAD:** 1/16-27 NPT

#### 1610 (-6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



#### 16210 (-1)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### 16410 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### 1620 (-1 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



#### 16220 (-1 -2)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### 16420 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### 1630 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



#### 16230 (-1 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### 16430 (-1 -2 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



#### 1640 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing



#### 16240 (-2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



#### 16445 (-6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



#### 1650 (-2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing



#### 16250 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



#### 16450 (-1 -2 -6005 -J1A)

1/16-27 NPT Thread with 5/16" Hex to 400 Series Barb, 3/16" (4.8 mm) ID Tubing



#### 1600 (-2 -J1A)

1/16-27 NPT Thread Plug with 5/16" Hex



## **THREAD:** 1/8-27 NPT

#### 1810 (-J1A)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/16" (1.6 mm) ID Tubing



#### 18210 (-1 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 1/16" (1.6 mm) ID Tubing



#### 18410 (-1 -2 -6005 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 1/16" (1.6 mm) ID Tubing



#### 1820 (-2 -J1A)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 3/32" (2.4 mm) ID Tubing



#### 18220 (-1 -2)

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 3/32" (2.4 mm) ID Tubing



#### 18420 (-1 -6005)

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 3/32" (2.4 mm) ID Tubing



#### 1830 (-1 -6005 -J1A)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/8" (3.2 mm) ID Tubing



#### 18230 (-1 -2 -6005 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### 18430 (-2 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, 1/8" (3.2 mm) ID Tubing



### 1840 (-2)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 5/32" (4.0 mm) ID Tubing



#### 18240 (-2 -6005)

1/8-27 NPT Thread with 7/16" Hex to 200 Series Barb, 5/32" (4.0 mm) ID Tubing



#### 18445 (-1 -2 -J1A)

1/8-27 NPT Thread with 7/16" Hex to 400 Series Barb, .170" (4.3 mm) ID Tubing



#### 1850 (-1 -6005)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 3/16" (4.8 mm) ID Tubing



#### 1860 (-1 -6005 -6012)

1/8-27 NPT Thread with 7/16" Hex to Classic Series Barb, 1/4" (6.4 mm) ID Tubing



## **THREAD:** 1/8-27 NPT Elbows

#### 18L230 (-1 -2 -6005 -6012 -J1A)

1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 1/8" (3.2 mm) ID Tubing



#### 18L250 (-1 -2 -6005)

1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



#### 18L260 (-1 -2 -6005)

1/8-27 NPT Thread Elbow with 7/16" Hex to 200 Series Barb, 1/4" (6.4 mm) ID Tubing



#### THREAD:

1/8-27 NPT Tees

#### 18T250 (-J1A)

1/8-27 NPT Thread Tee with 7/16" Hex to 200 Series Barb, 3/16" (4.8 mm) ID Tubing



#### 18T260 (-1 -2)

1/8-27 NPT Thread Tee with 7/16" Hex to 200 Series Barb, 1/4" (6.4 mm) ID Tubing



## **THREAD:** 1/8-27 NPT Plugs

#### 1800 (-6005 -J1A)

1/8-27 NPT Thread Plug with 7/16" Hex



#### **THREAD:**

1/8-27 NPT Reducers

#### 1802 (-2 -6005 -J1A)

Reducer with 1/8-27 NPT Male Thread and 7/16" Hex to 1/4-28 UNF Female Thread





#### **THREAD:**

1/4-18 NPT Reducers

#### 1402 (-2)

Reducer with 1/4-18 NPT Male Thread and 9/16" Hex to 1/4-28 UNF Female Thread





THREADED FITTINGS

## **Need More Details?**

Part drawings, minimum order quantities, and CAD requests can be found online. Visit **www.nordsonmedical.com** or contact Sales at **FMF-sales@nordsonmedical.com**.