

NITRA pneumatic push-to-connect male Y fitting with rotating thermoplastic (PBT) body, nickel-plated brass threads, stainless steel tube gripping claws and pre-applied Teflon thread sealant. For use with polyurethane or nylon tubing. Five fittings per package.



*Inch Fitting*



*Metric Fitting*

NITRA™ Male Y													
Inch Sizes - dimensions in inches (in.)													
Part No.	Price	Size	ØD	ØP	T	L	E	A	B	H (Hex)	Orifice	Package Weight (lbs)	Qty. per pack
MY532-18N	<-->	5/32 in. x 1/8 NPT	5/32	0.41	NPT 1/8	1.73	0.83	0.33	0.61	7/16	0.12	0.1	5
MY532-14N	<-->	5/32 in. x 1/4 NPT	5/32	0.41	NPT 1/4	1.85	0.83	0.41	0.61	9/16	0.12	0.2	5
MY14-18N	<-->	1/4 in. x 1/8 NPT	1/4	0.51	NPT 1/8	1.88	1.02	0.33	0.70	1/2	0.18	0.2	5
MY14-14N	<-->	1/4 in. x 1/4 NPT	1/4	0.51	NPT 1/4	1.99	1.02	0.41	0.70	9/16	0.18	0.2	5
MY14-38N	<-->	1/4 in. x 3/8 NPT	1/4	0.51	NPT 3/8	2.03	1.02	0.45	0.70	11/16	0.18	0.3	5
MY38-18N	<-->	3/8 in. x 1/8 NPT	3/8	0.69	NPT 1/8	2.07	1.39	0.33	0.79	11/16	0.20	0.3	5
MY38-14N	<-->	3/8 in. x 1/4 NPT	3/8	0.69	NPT 1/4	2.15	1.39	0.41	0.79	11/16	0.28	0.3	5
MY38-38N	<-->	3/8 in. x 3/8 NPT	3/8	0.69	NPT 3/8	2.19	1.39	0.45	0.79	11/16	0.28	0.4	5
MY38-12N	<-->	3/8 in. x 1/2 NPT	3/8	0.69	NPT 1/2	2.31	1.39	0.57	0.79	7/8	0.28	0.4	5
MY12-14N	<-->	1/2 in. x 1/4 NPT	1/2	0.83	NPT 1/4	2.54	1.65	0.41	0.90	3/4	0.28	0.4	5
MY12-38N	<-->	1/2 in. x 3/8 NPT	1/2	0.83	NPT 3/8	2.58	1.65	0.45	0.90	3/4	0.28	0.6	5
MY12-12N	<-->	1/2 in. x 1/2 NPT	1/2	0.83	NPT 1/2	2.70	1.65	0.57	0.90	7/8	0.28	0.8	5
Metric Sizes - dimensions in millimeters (mm)													
MY4M-M5	<-->	4 mm x M5	4	10.5	M5*0.8p	39.5	21.0	4.0	15.6	10	2.5	0.1	5
MY4M-18R	<-->	4 mm x R1/8	4	10.5	R 1/8	43.5	21.0	8.0	15.6	10	3.0	0.1	5
MY4M-14R	<-->	4 mm x R1/4	4	10.5	R 1/4	45.5	21.0	10.0	15.6	14	3.0	0.2	5
MY6M-M5	<-->	6 mm x M5	6	12.5	M5*0.8p	40.4	25.0	4.0	16.9	12	2.5	0.2	5
MY6M-18R	<-->	6 mm x R1/8	6	12.5	R 1/8	44.4	25.0	8.0	16.9	12	4.5	0.3	5
MY6M-14R	<-->	6 mm x R1/4	6	12.5	R 1/4	47.4	25.0	10.0	16.9	14	4.5	0.3	5
MY6M-38R	<-->	6 mm x R3/8	6	12.5	R 3/8	48.4	25.0	11.0	16.9	17	4.5	0.3	5
MY8M-18R	<-->	8 mm x R1/8	8	14.5	R 1/8	47.8	29.0	8.0	19.0	14	6.0	0.4	5
MY8M-14R	<-->	8 mm x R1/4	8	14.5	R 1/4	50.8	29.0	10.0	19.0	14	6.0	0.4	5
MY8M-38R	<-->	8 mm x R3/8	8	14.5	R 3/8	51.8	29.0	11.0	19.0	17	6.0	0.4	5
MY8M-12R	<-->	8 mm x R1/2	8	14.5	R 1/2	54.8	29.0	14.0	19.0	21	6.5	0.6	5
MY10M-18R	<-->	10 mm x R1/8	10	17.6	R 1/8	51.2	35.2	8.0	20.2	17	6.0	0.8	5
MY10M-14R	<-->	10 mm x R1/4	10	17.6	R 1/4	54.2	35.2	10.0	20.2	17	7.0	0.8	5
MY10M-38R	<-->	10 mm x R3/8	10	17.6	R 3/8	55.2	35.2	11.0	20.2	17	7.0	0.9	5
MY10M-12R	<-->	10 mm x R1/2	10	17.6	R 1/2	58.2	35.2	14.0	20.2	21	7.0	1.0	5
MY12M-14R	<-->	12 mm x R1/4	12	21.0	R 1/4	59.1	42.0	10.0	22.6	19	7.0	1.0	5
MY12M-38R	<-->	12 mm x R3/8	12	21.0	R 3/8	60.1	42.0	11.0	22.6	19	10.0	1.1	5
MY12M-12R	<-->	12 mm x R1/2	12	21.0	R 1/2	63.1	42.0	14.0	22.6	21	10.0	1.2	5

# NITRA™ Pneumatic Air Fittings

A variety of fittings are available including:



**UNION STRAIGHT**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (USxxx)



**UNION REDUCER**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (URxxx)



**UNION TEE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (UTxxx)



**MANUAL HAND VALVE**  
NITRA™ Pneumatic Fittings  
from <--->  
(2 pack) (HVUxxx)



**STOP VALVE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (SVUxxx)



**CHECK VALVE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (CVUxxx)



**UNION TEE REDUCER**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (UTRxxx)



**UNION ELBOW**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (ULxxx)



**UNION Y**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (UYxxx)



**UNION Y REDUCER**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (URYxxx)



**UNION CROSS**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (UXxxx)



**UNION TRIPLE BRANCH**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (U3Bxxx)



**BULKHEAD UNION**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (UBxxx)



**PLUG**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (PLUGxxx)



**PLUG-IN REDUCER**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (PRxxx)



**MALE STRAIGHT**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MSxxx)



**FEMALE STRAIGHT**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (FSxxx)



**MALE ELBOW**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MExxx)



**LONG MALE ELBOW**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MELxxx)



**FEMALE ELBOW**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (FExxx)



**MALE BRANCH TEE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MBTxxx)



**MALE RUN TEE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MRTxxx)



**MALE Y**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (MYxxx)



**BULKHEAD FEMALE**  
NITRA™ Pneumatic Fittings  
from <--->  
(5 pack) (FBxxx)

## Push-to-Connect Fittings

NITRA Pneumatic Push-to-Connect Fitting bodies are made of a strong thermoplastic (PBT) and have stainless steel tube gripping claws. Threaded components are made of nickel-plated brass and have pre-applied Teflon thread sealant.

The bodies of elbow and tee fittings with threaded connections can be rotated after installation to allow for variations in piping direction. NITRA Polyurethane and Nylon 12 tubing is easily connected by simply inserting the tubing end into the fitting. To release the tubing press the circular release ring and the tubing can be easily pulled out.

- Large selection of fitting configurations, including union, plug-in, straight, elbow, branch, and stop, hand and check valves
- Inch and metric sizes available
- NPT and BSPT (R) threads available
- Tough thermoplastic bodies, stainless steel tube gripping claws, nickel-plated threads with pre-applied Teflon sealant
- Elbow and Tee bodies can be rotated after installation
- Rings are color coded to differentiate between inch and metric sizes



**ELBOW METER-IN**  
NITRA™ Flow Control Valve  
from <--->  
(2 pack) (FVRxxx)



**ELBOW METER-OUT**  
NITRA™ Flow Control Valve  
from <--->  
(2 pack) (FVSxxx)



**IN-LINE (STRAIGHT)**  
NITRA™ Flow Control Valve  
from <--->  
(2 pack) (FVUxxx)

## Push-to-Connect Flow Control (Speed Controller) Valves

NITRA Pneumatic Push-to-Connect Flow Control (Speed Controller) Valves provide accurate airflow regulation for precise motion control of pneumatic cylinders. NITRA flow control valve bodies are made of strong thermoplastic (PBT) and have stainless steel tube gripping claws. Threaded components are nickel-plated brass and have pre-applied Teflon thread sealant. Flow control valve bodies can be rotated after installation to allow for variations in piping direction.

- Meter-in, meter-out and in-line configurations
- Inch and metric sizes available
- NPT and BSPT (R) threads available
- Tough thermoplastic bodies, stainless steel tube gripping claws, nickel-plated threads with pre-applied Teflon sealant
- Bodies can be rotated after installation
- Release rings are color coded to differentiate between meter-in and meter-out

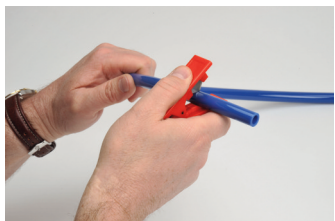
# Pneumatic Fitting Instructions and Caution Information

## Assembly Instructions

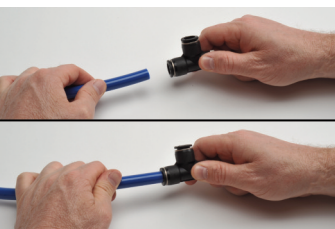


Prepare the **NITRA™** tubing for cutting and make sure to have the proper tubing cutters like the **NITRA TC-12** or **TC-20**.

(If cutting bonded tubing, carefully split the tubes with a knife and then pull apart as needed.)

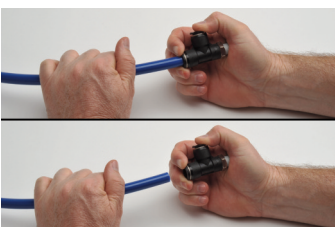


Cut the **NITRA** tubing at a right angle with the axis using a standard tube cutter. After cutting the tubing, make sure to check the cut end for an even cut with no debris.



Insertion of the **NITRA** tubing into fittings

- Make sure the tube is inserted fully into the fitting.
- Pull the tube gently to make sure it does not release.
- If the tube end is damaged or deformed, leakage or unexpected tube release may occur. Make sure to check tubing end thoroughly.



Removing the **NITRA** tubing from fittings

- Make sure the pressure in the tube is zero before releasing the tube from the fittings.
- To release the tubing, press the release ring at the end of the fitting and pull the tube with one hand.
- Inspect the released tube end and make a clean cut if it is damaged or deformed.

## Common Precautions for Tubing and Fitting Products

### Warnings:

- Do not use fittings with media other than air.
- Avoid installing with tubing under tension or with excessive bends.
- Do not use the product where weld spatters occur as fire may occur.
- Product damage or air leakage may occur at places where there is excessive rotation or vibration of the fittings.
- Use caution in water as the product may be damaged by surge pressure.
- Do not use the product where it is directly exposed to fluids such as cutting oil, lubricating oil, and coolant oil.

### Cautions:

- Assemble the tubing only after cleaning away impurities such as dust and excess debris.
- Fitting products are recommended for air systems only. Avoid using for other purposes.
- When using tubing other than NITRA brand with NITRA fittings, be sure the tubing OD conforms to the tolerances in Table 1 below.

**Table 1 - Tolerance of the Outer Diameter of the Tube**

Tube Specifications	ø5/32 [ø4]	ø1/4 [ø6]	ø5/16 [ø8]	ø3/8 [ø10]	ø1/2 [ø12]
Permissible tolerance	+ 0.15/-0.1 [+/- 0.1]	+/- 0.1 [+/- 0.1]	+ 0.2/- 0.1 [+/- 0.1]	+/- 0.15 [+/- 0.15]	+/- 0.15 [+/- 0.15]

**Pneumatic Tubing Cutter**

Part Number	Description	Pcs/Pkg	Wt (lb)	Price
<b>TC-12</b>	NITRA pneumatic tubing cutter for use with 1/8 to 1/2 inch and 4 to 12 mm outside diameter flexible plastic tubing.	1	0.1	<--->
<b>TC-20</b>	NITRA pneumatic heavy duty tubing cutter for use with polyurethane, nylon and other flexible tubing up to 2 inch [50mm] outside diameter.	1	0.2	<--->



**TC-12**



**TC-20**