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Key points to consider before choosing your industrial connector

What function do you need?

- Protect your system
- Detect end of cylinder rod stroke
- Control and improve the performance of your system
- Working on your system

What type of fluid is being conveyed ?

- Compatibility of seal and connector materials with the fluid

What are the conditions of use ?

- Vacuum
- Pressure
- Fluid temperature
- With or without seal
- Flow requirements

Which kind of thread do you need ?

- Male thread/Female thread
- BSPP, BSPT, NPT, Metric

Which connector do you need ?

- Push-In Fittings
- Compression Fittings
- Spigot Fittings
- Tailpiece Adaptors

Do you have compliance requirements ?

- Norms & regulations
- ISO 9001/ISO TS 16949; RoHS, FDA, NSF
- Silicone-free, phthalates free, etc...
- Compatible materials with the application
- Chemical compatibility

What is your application environment ?

- Ambient air quality (pollution)
- Risk of shocks
- Confined areas/access difficulties
- External uses (UV, saline environments)
- Use of products on mobile equipment

Have you thought about additional product requirements ?

- Tubing
- Valves
- Couplings
- Blowguns

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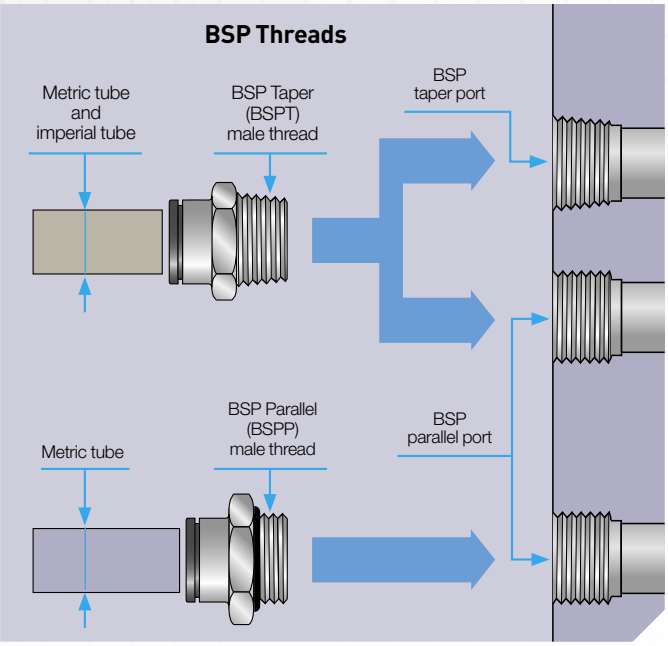
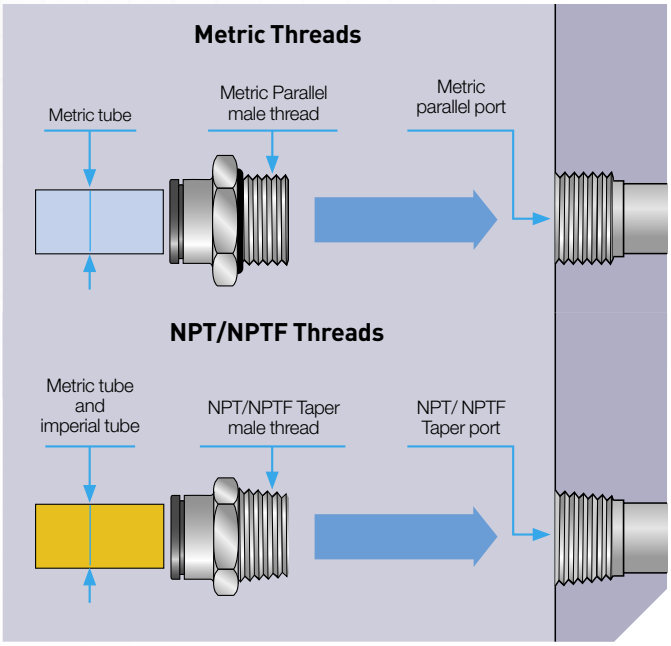




Push-In Fittings

Tube retention with gripping ring

- No damage to the tube
- Ideal for polymer tubes
- Particularly compact

Tube retention with collet

- Robust solution for harsh environments
- Resistant to high pressure, excellent lifespan
- Ideal for grooved metal tubes

Tube retention with reversed collet

- Protected disconnection
- Can withstand very high pressures
- Double sealing

Advantages

Allows flexible and modular systems to be assembled quickly.

Provides a compact and lightweight connection solution.

Facilitates installation due to a swivelling body.

Reliability of the connection ensured through the one-piece design.

Suitable for use with a wide range of tubes.

Prolongs the lifespan of your systems.

Compression Fittings

Connection and sealing achieved by crimping a metal olive onto a tube. The seals are metal to metal.

Advantages

Can withstand very high pressures and temperatures.

Allows all types of tube to be connected, both polymer and metal.

Increases the lifetime of the fitting.

Spigot Compression Fittings

Connection and sealing by the distortion and gripping of a plastic tube.

Advantages

Intended for the connection of very flexible or non-calibrated tubes.

Part Number Identification

The part numbers are selected using a technical mnemonic code.

Each fitting and valve is identified by:

- model series (4 digits)
- nominal diameter (2 digits)

Fittings

3101 **06** **10**

- **3101** — Item type
- **06** — Nominal diameter
- **10** — Thread code

Nominal diameter code: equates to the outside diameter of the tube
Thread code: see tables below

When the product does not have a thread, the code used is: 00.

3101 Stud Fitting, Male BSPP and Metric Thread

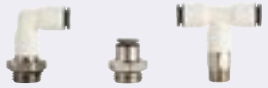
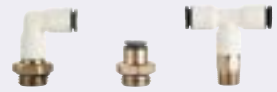
Nickel-plated brass, NBR

You will find the part type at the top of each table

Thread Identification

BSP Thread	Code	NPT/NPTF Threads	Code
1/8"	**10**	1/16"	**08**
1/4"	**13**	1/8"	**11**
3/8"	**17**	1/4"	**14**
1/2"	**21**	3/8"	**18**
3/4"	**27**	1/2"	**22**
1"	**34**	3/4"	**28**
1¼"	**42**	1"	**35**
1½"	**49**	1¼"	**43**
2"	**48**	1½"	**50**
		2"	**44**

Metric Thread	Code	Metric Thread	Code	Metric Thread	Code
M3x0.5	**09**	M12x1.25	**66**	M22x1.5	**82**
M5x0.8	**19**	M12x1.5	**67**	M24x1.5	**83**
M6x1	**52**	M13x1.25	**68**	M27x1.5	**85**
M7x1	**55**	M14x1.25	**70**	M30x2	**88**
M8x1	**56**	M14x1.5	**71**	M33x1.5	**90**
M8x1.25	**57**	M16x1.25	**74**	M39x1.5	**36**
M10x1	**60**	M16x1.5	**75**	M42x1.5	**37**
M10x1.5	**62**	M18x1.5	**78**	M42x2	**96**
M12x1	**65**	M20x1.5	**80**	M48x2	**98**

	Materials	Fluids	Maximum Pressure (bar)	Temperature		Performance in Aggressive Environments		Page
				Min.	Max.	Mechanical	Chemical	
Push-In Fittings								
LF 3000®	Technical polymer/ nickel-plated brass: NBR	Compressed air	20	-20°C	+80°C	Good	Moderate	**18**
LF 3200	Nickel-plated brass/ NBR	Compressed air	20	-15°C	+80°C	Excellent	Moderate	**41**
LIQUIfit®	Bio-sourced polymer/ EPDM	Liquids	16	-10°C	+95°C	Moderate	Excellent	**43**
LIQUIfit® **with Metal Adaptor** 	Bio-sourced polymer/ nickel-plated brass FDA/stainless steel 316L/EPDM	Liquids	16	-10°C	+130°C for Ø4,6 and 8mm	Moderate	Excellent	**55**
LF 3600	Nickel-plated brass FDA/FKM	All brass-compatible fluids	30	-25°C	+150°C	Excellent	Good	**60**
Low lead brass LF 3600	Low lead brass FDA/FKM	All brass-compatible fluids, water	30	-25°C	+150°C	Excellent	Good	**68**
LF 3800	Stainless steel 316L/ FKM	All fluids	30	-25°C	+150°C	Excellent	Excellent	**71**
LF 6800 	Nickel-plated brass/ EPDM	O_2, analytical gases	15	-10°C	+95°C	Moderate	Excellent	**77**
LF 6100	Brass/NBR	All brass-compatible fluids	60	-40°C	+120°C	Excellent	Excellent	**80**