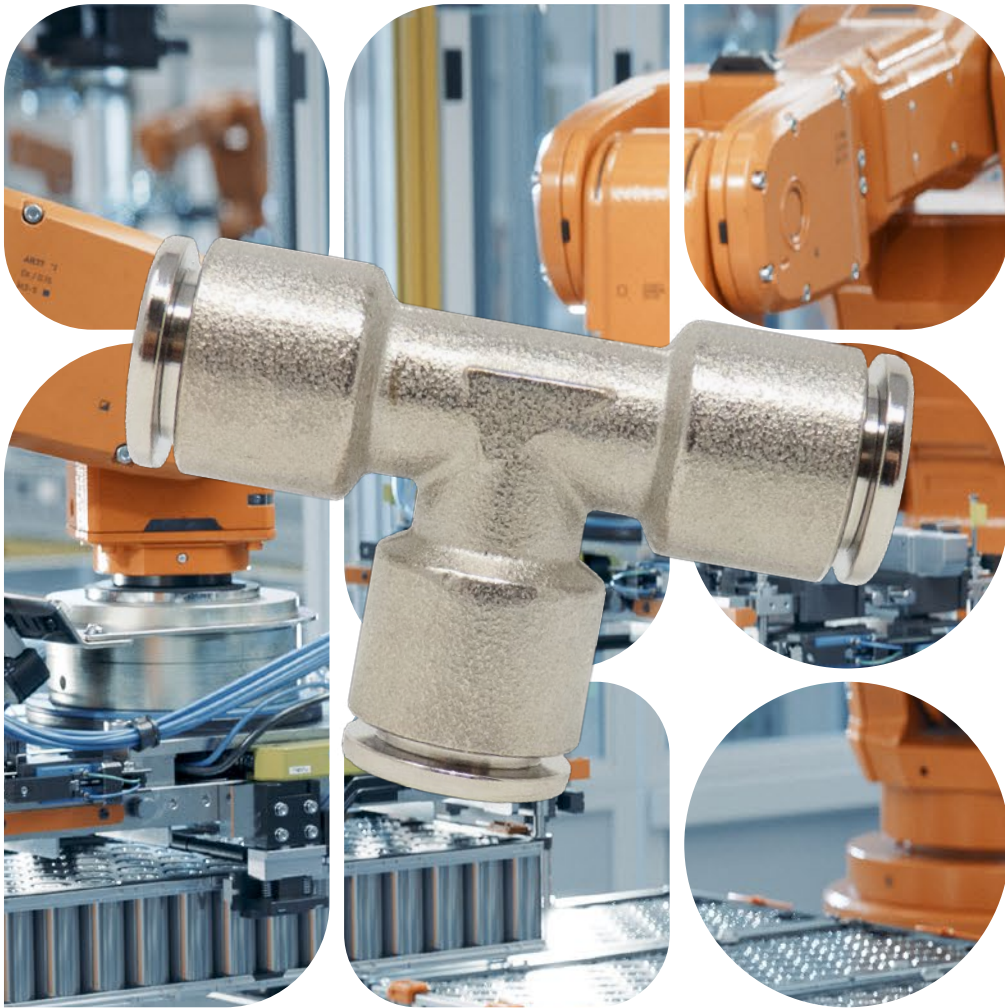




Safe connection. Beyond performance.

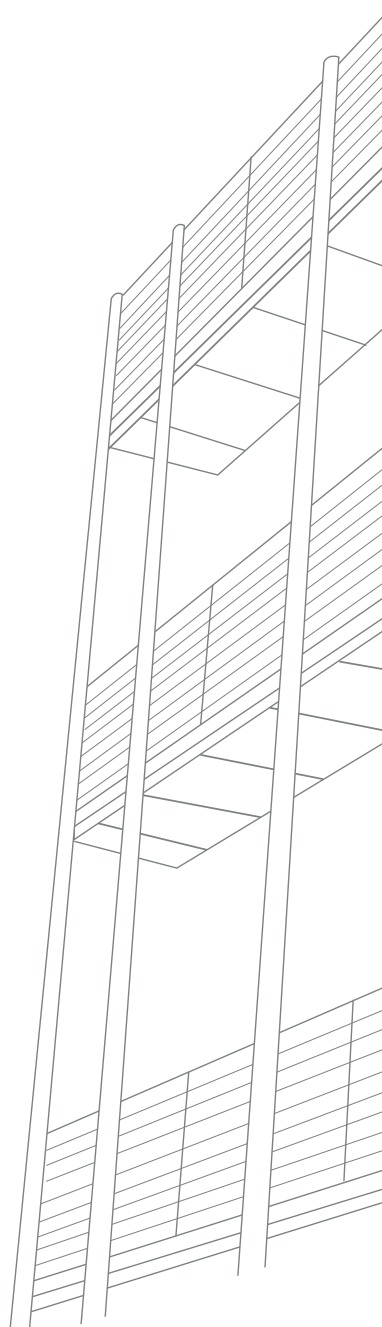


OTR Series

M A D E I N I T A L Y







 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



PUSH TO CONNECT OTR SERIES

PLUS

HIGH PERFORMANCE FITTINGS, easy to use

STRONG but **COMPACT** in order to ensure the maximum assembling flexibility

COMPLETE RANGE suitable to be used with different kinds of tubing

ELECTROLYTIC NICKEL PLATING to ensure the maximum duration over time

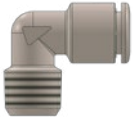
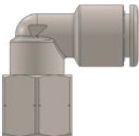
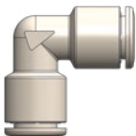
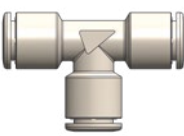
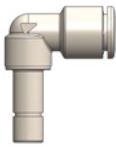
STATIC GRIPPING SYSTEM in order to stop all movement of the tube when inserted, granting a **A LEAK-PROOF CONNECTION**

Every fitting is **DESIGNED TO GUARANTEE THE MAXIMUM POSSIBLE FLOW RATE** according to the diameter of the tube and of the thread

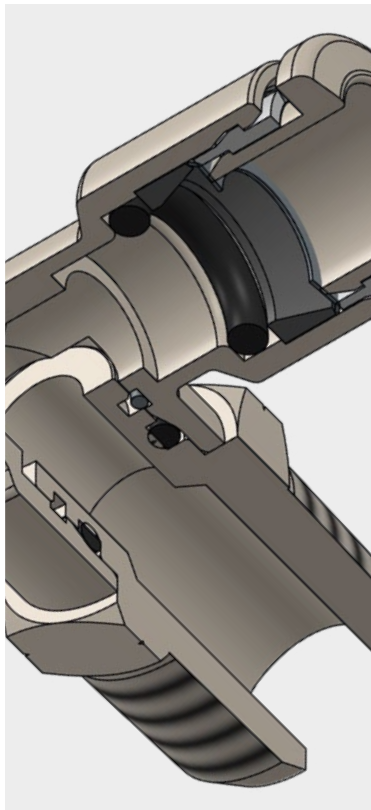
PRODUCTS CAN BE TAILOR-MADE TO SPECIFIC CUSTOMER NEEDS

M A D E I N I T A L Y



 p. 8 / OTRC-N	 p. 8 / OTROC-N	 p. 8 / OTRCF-N	 p. 9 / OTRMM-N	 p. 9 / OTRL-N	 p. 9 / OTRME-N
 p. 10 / OTRLF-N	 p. 10 / OTRT-N	 p. 11 / OTRST-N	 p. 11 / OTRA-N	 p. 11 / OTRUC-N	 p. 12 / OTRUL-N
 p. 12 / OTRUT-N	 p. 12 / OTRY-N	 p. 13 / OTRGJ-N	 p. 13 / OTRLJ-N		





-4°F ÷ 176°F



Working pressure:

290 PSI

Negative pressure:

-13,7 PSI



Compressed air & Vacuum



- NPT ANSI B 1.20.1

from NPT 1/8" to NPT 1/2"

- UNF ANSI B 1.1

10-32 UF



Polyamide PA,
Polyurethane PU,
Polyethylene PE

Body: Nickel-plated brass

UNI EN 12164 CW617N

Collar: POM

Collet: Nickel-plated brass

UNI EN 12164 CW617N



Lock claw: Stainless steel AISI 301

Back ring: POM

O-ring: NBR silicone free

Seal: NBR silicone free

Retaining ring for swivel systems:

Stainless steel AISI 302

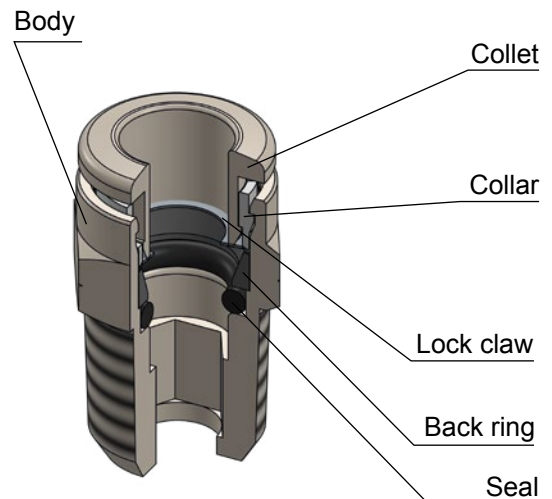
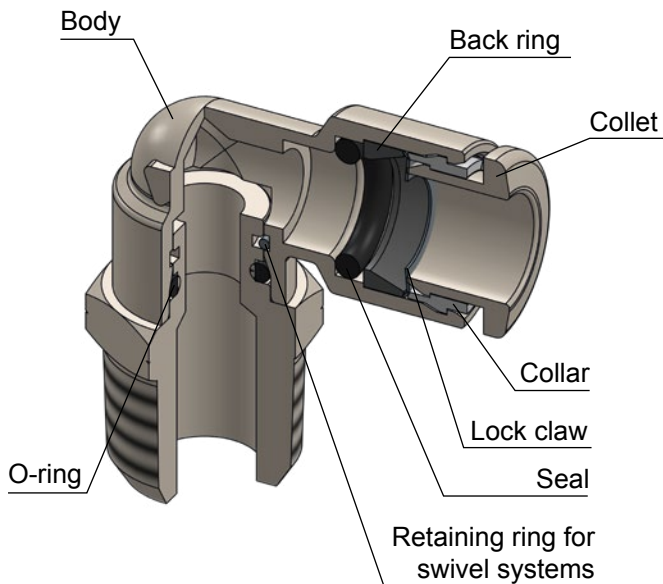


Products in compliance with
EC Regulation 1907/2006



Products in compliance with
the directive EU 2015/863

CONSTRUCTION DETAILS



TIGHTENING TORQUE

NPT ANSI B 1.20.1

THREAD	1/8"	1/4"	3/8"	1/2"
lb-ft	2.58	3.32	5.16	8.85

TIGHTENING TORQUE

UNF ANSI B 1.1

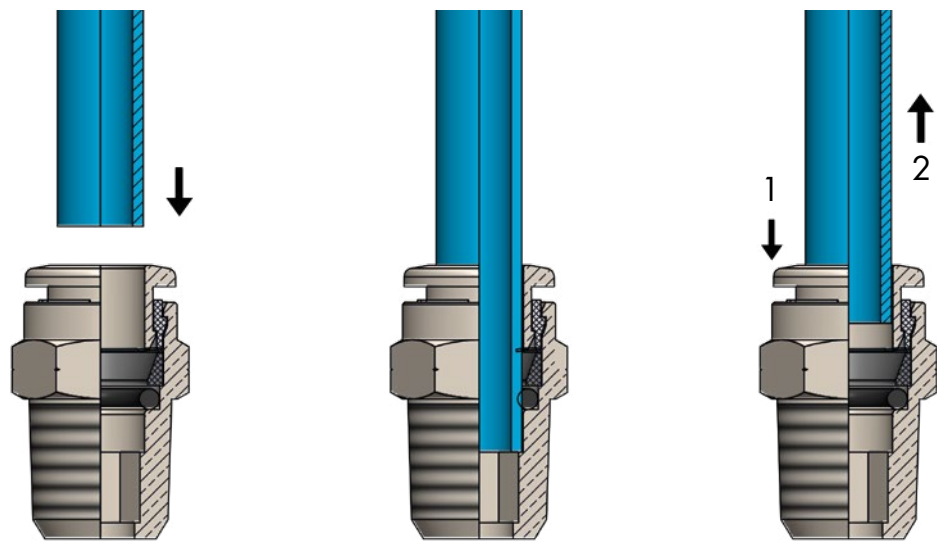
THREAD	10-32
lb-ft	.59

INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



TUBE TOLERANCES

Ø TUBE (inch)	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"
TOLERANCE (inch)	±.0039	±.0039	±.0039	±.0039	±.0059	±.0059

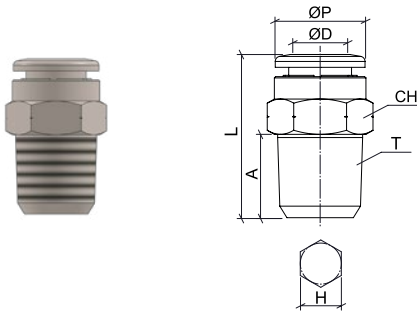
TUBE INSERTION DEPTH

Ø TUBE (inch)	1/8"	5/32"	1/4"	5/16"	3/8"	1/2"
TUBE INSERTION LENGHT (inch)	.386	.551	.630	.689	.728	.846



OTRC-N

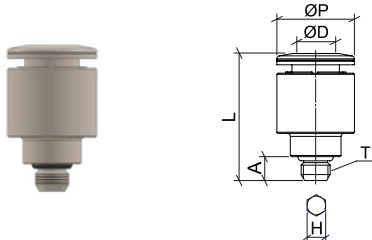
Male connector NPT thread



CODE	ØD	T	ØP	A	L	CH	H	oz
OTRC1-8N01	1/8"	N 1/8"	.314	.334	.748	7/16"	3/32"	-
OTRC532N01	5/32"	N 1/8"	.393	.334	.748	7/16"	1/8"	.317
OTRC532N02		N 1/4"	.393	.413	.807	9/16"	1/8"	.564
OTRC1-4N01	1/4"	N 1/8"	.511	.334	.885	1/2"	3/16"	.388
OTRC1-4N02		N 1/4"	.511	.413	.885	9/16"	3/16"	.529
OTRC1-4N03		N 3/8"	.511	.452	.924	11/16"	1/4"	-
OTRC516N01	5/16"	N 1/8"	.551	.334	1.063	9/16"	3/16"	.546
OTRC516N02		N 1/4"	.551	.413	1.004	9/16"	1/4"	.564
OTRC516N03		N 3/8"	.551	.452	.925	11/16"	1/4"	.881
OTRC38N01	3/8"	N 1/8"	.630	.334	1.141	11/16"	3/16"	.758
OTRC38N02		N 1/4"	.630	.413	1.181	11/16"	1/4"	.881
OTRC38N03		N 3/8"	.630	.452	1.023	11/16"	5/16"	.846
OTRC38N04		N 1/2"	.630	.570	1.063	7/8"	5/16"	1.622
OTRC1-2N02	1/2"	N 1/4"	.748	.413	1.338	7/8"	1/4"	1.305
OTRC1-2N03		N 3/8"	.748	.452	1.358	7/8"	3/8"	1.375
OTRC1-2N04		N 1/2"	.748	.570	1.200	7/8"	3/8"	1.516

OTROC-N

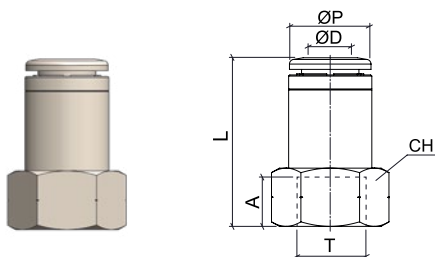
Male connector round body UNF thread



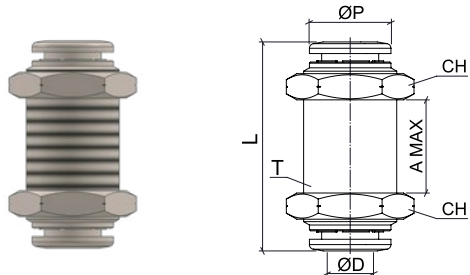
CODE	ØD	T	ØP	A	L	H	oz
OTROC1-8UF1032	1/8"	UNF 10-32	.314	.157	.689	3/32"	.105
OTROC532UF1032	5/32"	UNF 10-32	.393	.157	.748	3/32"	.423
OTROC1-4UF1032	1/4"	UNF 10-32	.511	.157	.846	3/32"	.564

OTRCF-N

Female connector NPT thread

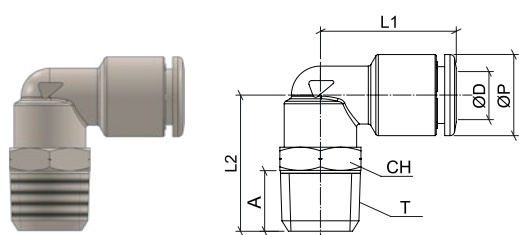


CODE	ØD	T	ØP	A	L	CH	oz
OTRCF532N01	5/32"	N 1/8"	.393	.334	1.023	1/2"	-
OTRCF1-4N01	1/4"	N 1/8"	.511	.334	1.023	1/2"	-
OTRCF1-4N02		N 1/4"	.511	.413	1.023	11/16"	-
OTRCF516N01	5/16"	N 1/8"	.551	.334	1.141	11/16"	-
OTRCF516N02		N 1/4"	.551	.413	1.141	11/16"	-

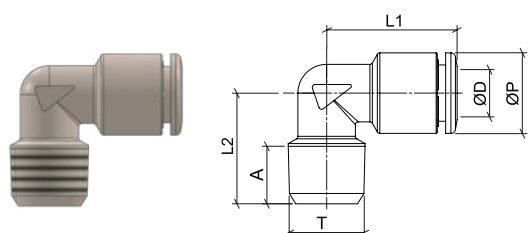
OTRMM-N**Bulkhead connector**

CODE	ØD	T	ØP	L	A MAX	CH*	oz
OTRMM04-532	5/32"	M12x1	.393	1.181	.471	16	.811
OTRMM1-4	1/4"	M14x1	.511	1.401	.511	17	1.093
OTRMM08-516	5/16"	M16x1	.551	1.437	.630	19	1.269
OTRMM38	3/8"	M20x1	.551	1.673	.669	24	2.469
OTRMM1-2	1/2"	M22x1,5	.748	1.755	.787	25	-

* CH: Technical dimensions given in metric units (mm)

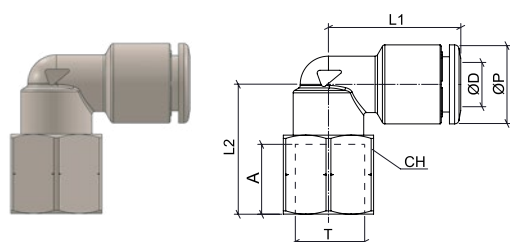
OTRL-N**Swivel male elbow NPT & UNF thread**

CODE	ØD	T	ØP	A	L1	L2	CH	oz
OTRL1-8UF1032	1/8"	UNF 10/32"	.314	.157	.649	.590	3/8"	-
OTRL1-8N01		N 1/8"	.314	.334	.708	.826	9/16"	-
OTRL532UF1032	5/32"	UNF 10/32"	.393	.157	.708	.590	3/8"	.388
OTRL532N01		N 1/8"	.393	.334	.767	.826	9/16"	.723
OTRL532N02		N 1/4"	.393	.413	.767	.925	9/16"	.846
OTRL1-4N01	1/4"	N 1/8"	.511	.334	.846	.826	9/16"	.811
OTRL1-4N02		N 1/4"	.511	.413	.846	.925	9/16"	.917
OTRL1-4N03		N 3/8"	.511	.452	.846	.984	11/16"	-
OTRL516N01	5/16"	N 1/8"	.551	.334	.925	.826	9/16"	.811
OTRL516N02		N 1/4"	.551	.413	.925	.925	9/16"	.846
OTRL516N03		N 3/8"	.551	.452	.925	.984	11/16"	1.199
OTRL38N01	3/8"	N 1/8"	.630	.334	1.023	.944	11/16"	1.410
OTRL38N02		N 1/4"	.630	.413	1.023	1.023	11/16"	1.516
OTRL38N03		N 3/8"	.630	.452	1.023	1.082	11/16"	1.657
OTRL38N04		N 1/2"	.630	.570	1.023	1.200	7/8"	2.116
OTRL1-2N02	1/2"	N 1/4"	.748	.413	1.220	1.122	7/8"	2.045
OTRL1-2N03		N 3/8"	.748	.452	1.220	1.161	7/8"	2.151
OTRL1-2N04		N 1/2"	.748	.570	1.220	1.279	7/8"	2.363

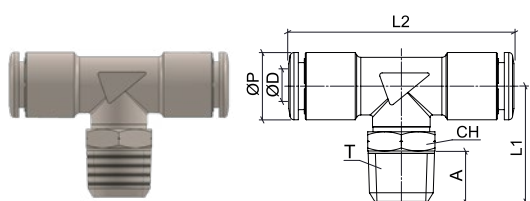
OTRME-N**Male elbow NPT thread**

CODE	ØD	T	ØP	A	L1	L2	oz
OTRME532N01	4	N 1/8"	.393	.334	.708	.610	-
OTRME1-4N01	6	N 1/8"	.511	.334	.775	.610	-
		N 1/4"	.511	.413	.775	.757	-
OTRME516N01	8	N 1/8"	.551	.334	.893	.679	-
		N 1/4"	.551	.413	.893	.757	-



OTRLF-N**Swivel female elbow NPT thread**

CODE	ØD	T	ØP	A	L1	L2	CH	oz
OTRLF532N01	5/32"	N 1/8"	.393	.334	.769	.708	9/16"	-
OTRLF532N02		N 1/4"	.393	.413	.769	.787	11/16"	-
OTRLF1-4N01	1/4"	N 1/8"	.511	.334	.846	.708	9/16"	-
OTRLF1-4N02		N 1/4"	.511	.413	.846	.787	11/16"	-
OTRLF516N01	5/16"	N 1/8"	.551	.334	.923	.826	9/16"	-
OTRLF516N02		N 1/4"	.551	.413	.923	.905	11/16"	-

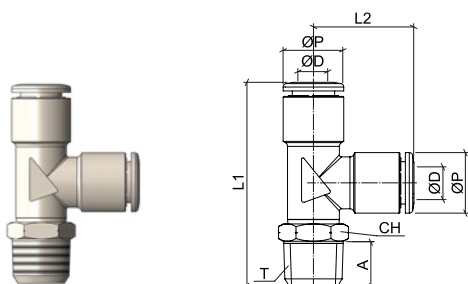
OTRT-N**Swivel male tee NPT thread**

CODE	ØD	T	ØP	A	L1	L2	CH	oz
OTRT1-8N01	1/8"	N 1/8"	.314	.334	.846	1.417	9/16"	-
OTRT532N01	5/32"	N 1/8"	.393	.334	.846	1.535	9/16"	.987
OTRT532N02		N 1/4"	.393	.413	.944	1.535	9/16"	1.093
OTRT1-4N01	1/4"	N 1/8"	.511	.334	.846	1.673	9/16"	1.164
OTRT1-4N02		N 1/4"	.511	.413	.944	1.673	9/16"	1.269
OTRT1-4N03		N 3/8"	.511	.452	.846	1.673	9/16"	-
OTRT516N01	5/16"	N 1/8"	.551	.334	.846	1.850	9/16"	1.199
OTRT516N02		N 1/4"	.551	.413	.944	1.850	9/16"	1.305
OTRT38N01	3/8"	N 1/8"	.630	.334	.933	2.027	11/16"	-
OTRT38N02		N 1/4"	.630	.413	1.023	2.027	11/16"	2.045
OTRT38N03		N 3/8"	.630	.452	1.082	2.027	11/16"	2.151
OTRT38N04		N 1/2"	.630	.570	1.200	2.027	7/8"	-
OTRT1-2N02	1/2"	N 1/4"	.748	.413	1.122	2.460	7/8"	2.645
OTRT1-2N03		N 3/8"	.748	.452	1.161	2.460	7/8"	2.751
OTRT1-2N04		N 1/2"	.748	.570	1.271	2.460	7/8"	-



OTRST-N

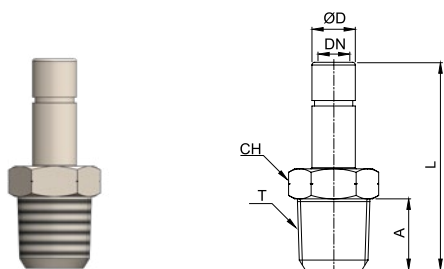
Swivel male lateral tee NPT thread



CODE	ØD	T	ØP	A	L1	L2	CH	oz
OTRST1-8N01	1/8"	N 1/8"	.314	.334	.846	.748	9/16"	-
OTRST532N01	5/32"	N 1/8"	.393	.334	.846	.769	9/16"	-
OTRST532N02		N 1/4"	.393	.413	.944	.769	9/16"	-
OTRST1-4N01	1/4"	N 1/8"	.511	.334	.846	.846	9/16"	-
OTRST1-4N02		N 1/4"	.511	.413	.944	.846	9/16"	-
OTRST1-4N03		N 3/8"	.511	.452	1.003	.846	11/16"	-
OTRST516N01	5/16"	N 1/8"	.551	.334	.846	.915	9/16"	-
OTRST516N02		N 1/4"	.551	.413	.944	.915	9/16"	-
OTRST38N02	3/8"	N 1/4"	.630	.413	1.023	1.003	11/16"	-
OTRST38N03		N 3/8"	.630	.452	1.082	1.003	11/16"	-
OTRST38N04		N 1/2"	.630	.570	1.200	1.003	7/8"	-
OTRST1-2N02	1/2"	N 1/4"	.748	.413	1.427	1.141	7/8"	-
OTRST1-2N03		N 3/8"	.748	.452	1.466	1.141	7/8"	-
OTRST1-2N04		N 1/2"	.748	.570	1.584	1.141	7/8"	-

OTRA-N

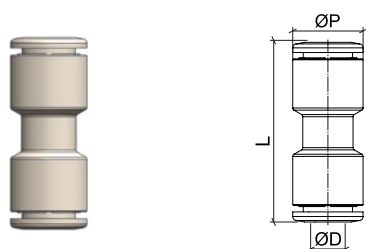
Stem adapter NPT & UNF thread



CODE	ØD	T	A	L	CH	DN	oz
OTRA532UF1032	5/32"	UNF 10/32"	.157	.964	3/8"	.078	-
OTRA532N01		N 1/8"	.334	1.181	9/16"	.078	-
OTRA532N02		N 1/4"	.413	1.259	9/16"	.078	-
OTRA1-4N01	1/4"	N 1/8"	.334	1.240	1/2"	.157	-
OTRA1-4N02		N 1/4"	.413	1.318	9/16"	.157	-
OTRA516N01	5/16"	N 1/8"	.334	1.318	9/16"	.236	-
OTRA516N02		N 1/4"	.413	1.397	9/16"	.236	-
OTRA38N02	3/8"	N 1/4"	.413	1.594	11/16"	.295	-
OTRA38N03		N 3/8"	.452	1.633	11/16"	.295	-
OTRA1-2N03	1/2"	N 3/8"	.452	1.692	7/8"	.393	-
OTRA1-2N04		N 1/2"	.570	1.811	7/8"	.393	-

OTRUC-N

Union connector

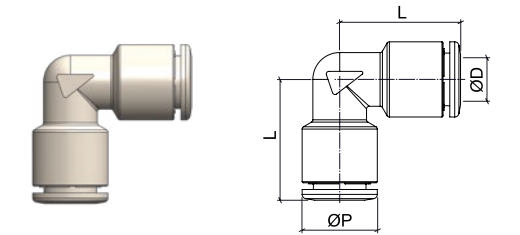


CODE	ØD	ØP	L	oz
OTRUC1-8	1/8"	.314	1.011	-
OTRUC04-532	5/32"	.393	1.141	.317
OTRUC1-4	1/4"	.511	1.299	.493
OTRUC08-516	5/16"	.551	1.397	.564
OTRUC38	3/8"	.630	1.515	.740
OTRUC1-2	1/2"	.748	1.751	.670



OTRUL-N

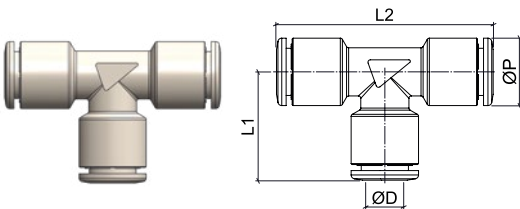
Union elbow



CODE	ØD	ØP	L	oz
OTRUL1-8	1/8"	.314	.649	-
OTRUL04-532	5/32"	.393	.708	.423
OTRUL1-4	1/4"	.511	.826	.670
OTRUL08-516	5/16"	.551	.885	.705
OTRUL38	3/8"	.630	.984	.987
OTRUL1-2	1/2"	.748	1.141	1.728

OTRUT-N

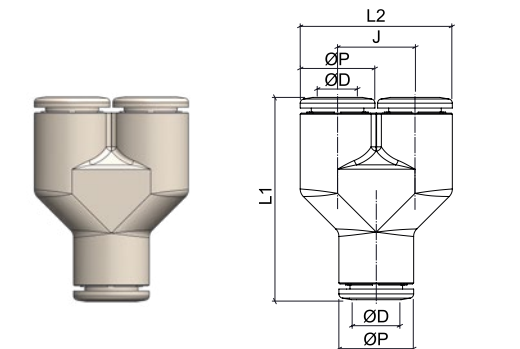
Union tee



CODE	ØD	ØP	L1	L2	oz
OTRUT1-8	1/8"	.314	.649	1.299	-
OTRUT04-532	5/32"	.393	.708	1.417	.599
OTRUT1-4	1/4"	.511	.826	1.653	.952
OTRUT08-516	5/16"	.551	.885	1.791	1.058
OTRUT38	3/8"	.630	.984	1.988	1.340
OTRUT1-2	1/2"	.748	1.141	2.283	2.081

OTRY-N

Union Y

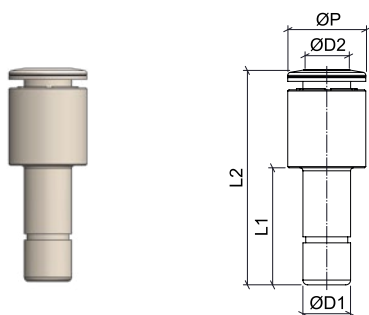


CODE	ØD	ØP	J	L1	L2	oz
OTRY532	5/32"	.393	.413	1.263	.803	-
OTRY1-4	1/4"	.511	.492	1.397	.960	-
OTRY516	5/16"	.551	.570	1.492	1.122	-
OTRY38	3/8"	.630	.669	1.826	1.295	-



OTRGJ-N

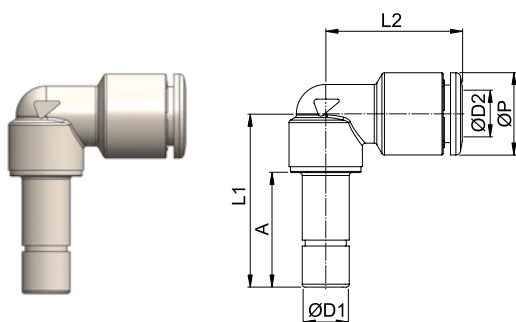
Stem reduction



CODE	ØD1	ØD2	ØP	L1	L2	oz
OTRGJ532-1-8	5/32"	1/8"	.314	.669	1.072	-
OTRGJ1-4-532	1/4"	5/32"	.393	.708	1.171	-
OTRGJ516-1-4	5/16"	1/4"	.511	.767	1.273	-
OTRGJ38-1-4	3/8"	1/4"	.511	.944	1.450	-
OTRGJ38-516	3/8"	5/16"	.551	.944	1.494	-
OTRGJ1-2-1-4	1/2"	1/4"	.511	1.013	1.519	-
OTRGJ1-2-38	1/2"	3/8"	.630	1.013	1.620	-

OTRLJ-N

Elbow with stem



CODE	ØD1	ØD2	ØP	A	L1	L2	oz
OTRLJ532	5/32"	5/32"	.393	.669	1.023	.769	-
OTRLJ1-4	1/4"	1/4"	.511	.708	1.063	.832	-
OTRLJ516	5/16"	5/16"	.551	.767	1.122	.915	-
OTRLJ38	3/8"	3/8"	.630	.944	1.417	1.005	-



NOTES











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