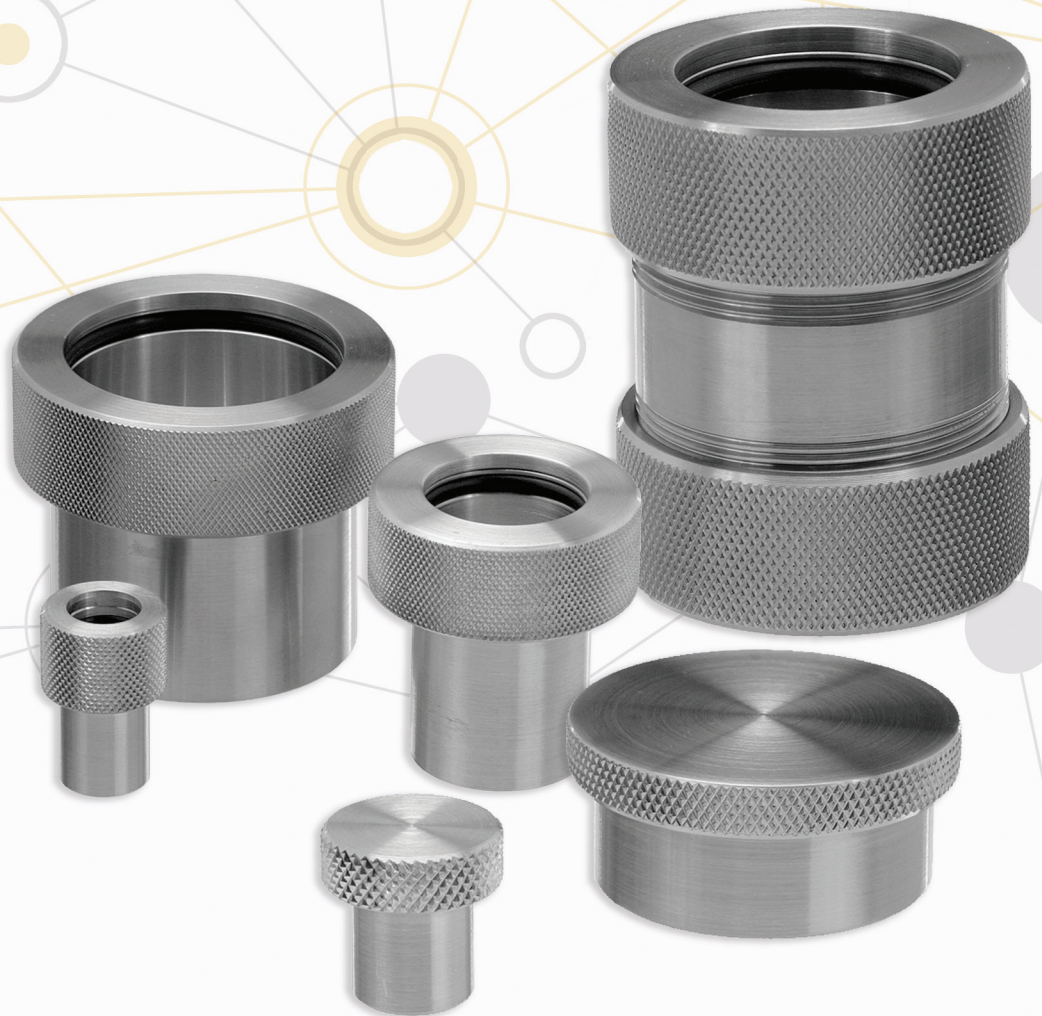


Quick Disconnect Fittings



6

Quick Disconnect Fittings

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Quick-Disconnect FITTINGS



Overview

Quick disconnects are a fast and easy way to make and break a vacuum seal onto metal or glass tubing. These useful fittings can be welded, brazed, soldered or flange mounted onto your system, chamber or flange. They are commonly used to mount vacuum measurement gauges, feedthroughs and other vacuum accessories.

ANCORP quick disconnects compress an o-ring onto the outer diameter of metal or glass tubing as the outer nut is hand tightened. Sizes for quick disconnect fittings are based on the outer diameter of the tube that will be inserted into the assembly.

All fittings offered by **ANCORP** are manufactured on state-of-the-art CNC (computer controlled) lathes to ensure consistency with dimensional tolerances, and extremely fine surface finishes. Water soluble, non-sulfur based coolants are used during the manufacturing process. The fittings are cleaned in an ultrasonic de-ionized water based cleaning system and vacuum packaged free from visible particulates and oils, ready for immediate use in any vacuum application.

Specifications:

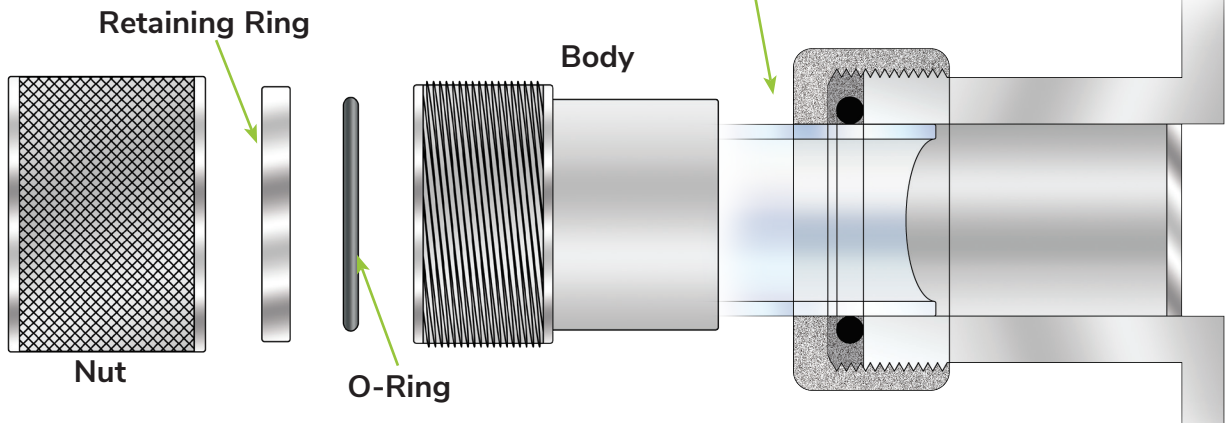
- Vacuum rated to: HV design 1×10^{-8} Torr.
- Leak rating: $< 1 \times 10^{-9}$ std. cc/s helium
- Materials:
 - Bodies, rings: 304 stainless steel
 - Nuts: 303 stainless steel
- Accept metal and glass tubing with outer diameter 1/16 inch up to 2 inch
- Larger sizes available upon request

TEMPERATURE LIMITS			
O-ring MATERIAL	LOW	SUSTAINED HIGH	INTERMITTENT USE
Viton®	-26 °C	150 °C	205 °C
Buna	-20 °C	80 °C	100 °C

Features:

- Quickly make and break vacuum seals
- Reusable seals
- Adapters to other flange systems available
- Interchangeable with other quick disconnect style fittings

Quick Disconnect Assembly



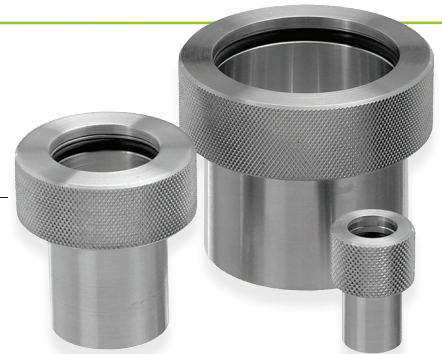
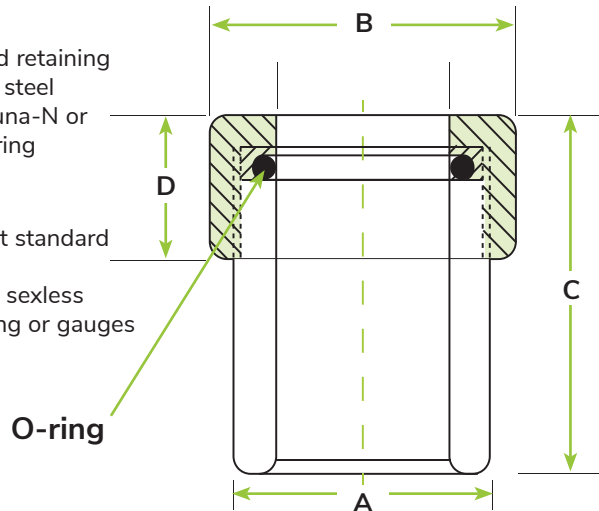
Quick Disconnect Fittings - Thin Wall

Materials:

- Body, plug, nut and retaining ring: 304 stainless steel
- Seals: Standard Buna-N or Custom Viton® O-ring

Product Features:

- Designed to accept standard inch tubing O.D.'s
- Infinitely rotatable, sexless connection to tubing or gauges
- Reusable seals



ORDERING NOTE:

- To connect thin wall quick disconnects to your system utilize welding for stainless steel.
- Use a thick wall quick disconnect if you desire to solder the assembly to your system.

Stainless Steel

PART #	REFERENCE ID	ACCEPTS TUBE O.D. (in)	A (in)	B (in)	C (in)	D (in)
1000103	18-QDTN-1.32	0.188	0.375	0.625	1.317	0.625
1000104	25-QDTN-1.32	0.250	0.375	0.625	1.317	0.625
1000106	31-QDTN-1.32	0.312	0.500	0.875	1.317	0.625
1000108	38-QDTN-1.32	0.375	0.500	0.875	1.317	0.625
1000110	50-QDTN-1.32	0.500	0.625	0.875	1.317	0.625
1000112	62-QDTN-1.51	0.625	0.750	1.188	1.500	0.750
1000114	75-QDTN-1.63	0.750	0.875	1.375	1.625	0.750
1000116	87-QDTN-1.63	0.875	1.00	1.375	1.625	0.750
1000118	100-QDTN-1.88	1.00	1.125	1.625	1.875	0.750
1000120	112-QDTN-1.88	1.125	1.250	1.875	1.875	0.750
1000122	125-QDTN-2.00	1.250	1.500	1.875	2.000	0.750
1000124	138-QDTN-2.13	1.375	1.625	2.000	2.125	0.875
1000126	150-QDTN-2.25	1.50	1.750	2.250	2.250	0.875
1000128	162-QDTN-2.25	1.625	1.875	2.375	2.250	0.875
1000130	200-QDTN-2.30	2.00	2.250	2.750	2.250	0.875

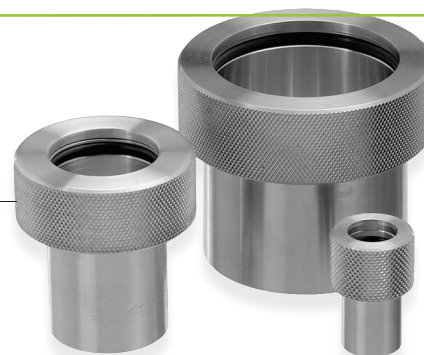
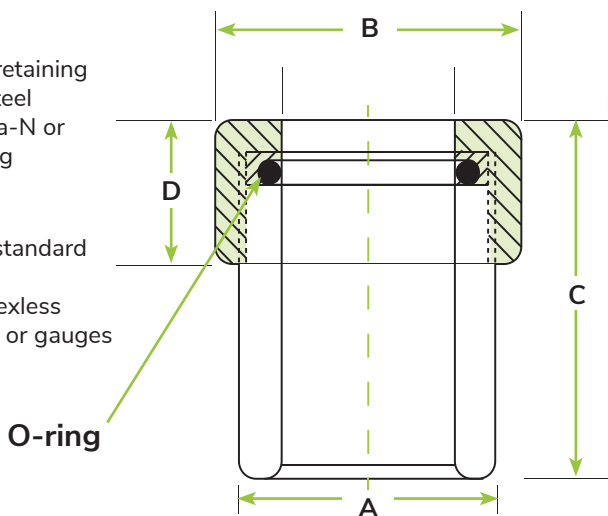
Quick Disconnect Fittings - Thick Wall

Materials:

- Body, plug, nut and retaining ring: 304 stainless steel
- Seals: Standard Buna-N or Custom Viton® O-ring

Product Features:

- Designed to accept standard inch tubing O.D.'s
- Infinitely rotatable, sexless connection to tubing or gauges
- Reusable seals



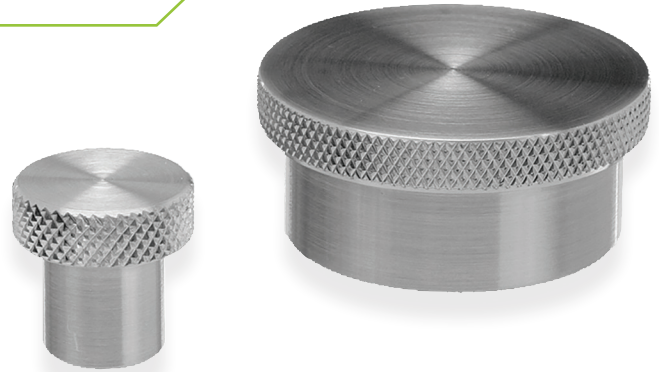
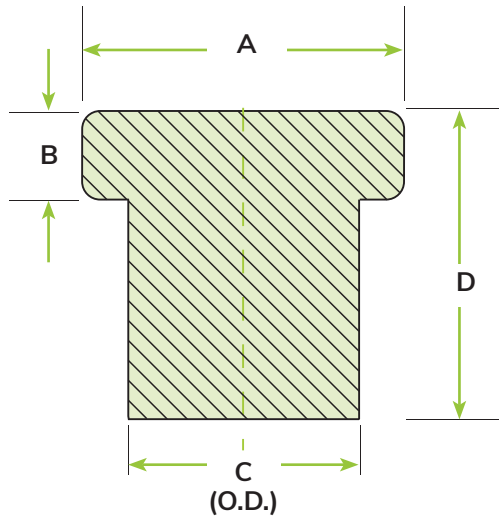
ORDERING NOTE:

- To connect thin wall quick disconnects to your system utilize welding for stainless steel.
- Use a thick wall quick disconnect if you desire to solder the assembly to your system.

Stainless Steel

PART #	REFERENCE ID	ACCEPTS TUBE O.D. (in)	A (in)	B (in)	C (in)	D (in)
1000101	06-QDTK-1.32	0.063	0.375	0.500	1.317	0.625
1000102	12-QDTK-1.32	0.125	0.375	0.500	1.317	0.625
1000105	25-QDTK-1.32	0.250	0.500	0.625	1.317	0.625
1000109	38-QDTK-1.32	0.375	0.625	0.875	1.317	0.625
1000111	50-QDTK-1.32	0.500	0.750	0.875	1.317	0.625
1000113	62-QDTK-1.50	0.625	0.875	1.188	1.505	0.750
1000115	75-QDTK-1.63	0.750	1.125	1.375	1.630	0.750
1000117	87-QDTK-1.63	0.875	1.250	1.375	1.630	0.750
1000119	100-QDTK-1.88	1.000	1.375	1.625	1.880	0.750
1000121	112-QDTK-1.88	1.125	1.500	1.875	1.880	0.750
1000123	125-QDTK-2.00	1.250	1.688	1.875	2.005	0.750
1000125	138-QDTK-2.13	1.375	1.813	2.000	2.130	0.875
1000127	150-QDTK-2.25	1.500	2.000	2.250	2.255	0.875
1000129	162-QDTK-2.25	1.625	2.125	2.375	2.255	0.875
1000131	200-QDTK-2.25	2.000	2.500	2.750	2.255	0.875

Blank Plug



Materials:

- 304 stainless steel

Product Features:

- Close unused quick disconnect ports
- Custom modify for your application

Stainless Steel

PART #	REFERENCE ID	A (in)	B (in)	C (in)	D (in)
1000301	06-QDBP-0.75	0.375	0.250	0.063	0.750
1000302	12-QDBP-0.75	0.375	0.250	0.125	0.750
1000303	18-QDBP-0.75	0.375	0.250	0.188	0.750
1000304	25-QDBP-0.75	0.500	0.250	0.250	0.750
1000305	31-QDBP-0.75	0.625	0.250	0.313	0.750
1000306	38-QDBP-0.75	0.625	0.250	0.375	0.750
1000307	50-QDBP-0.75	0.750	0.250	0.500	0.750
1000308	62-QDBP-0.75	0.875	0.250	0.625	0.750
1000309	75-QDBP-0.75	1.000	0.250	0.750	0.750
1000310	87-QDBP-0.75	1.125	0.250	0.875	0.750
1000311	100-QDBP-0.75	1.250	0.250	1.000	0.750
1000312	112-QDBP-0.75	1.375	0.250	1.125	0.750
1000313	125-QDBP-0.75	1.500	0.250	1.250	0.750
1000314	138-QDBP-0.75	1.625	0.250	1.375	0.750
1000315	150-QDBP-0.75	1.750	0.250	1.500	0.750
1000316	162-QDBP-0.75	1.875	0.250	1.625	0.750
1000317	200-QDBP-0.75	2.250	0.250	2.000	0.750

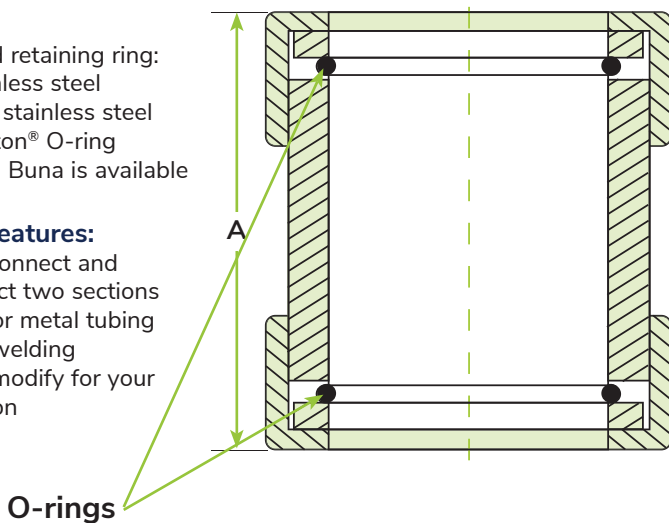
Quick Disconnect Unions

Materials:

- Body and retaining ring: 304 stainless steel
- Nut: 303 stainless steel
- Seals: Viton® O-ring standard, Buna is available

Product Features:

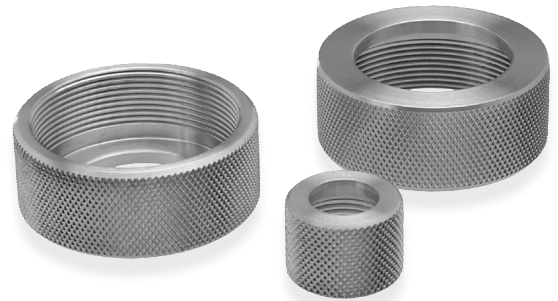
- Quickly connect and disconnect two sections of glass or metal tubing without welding
- Custom modify for your application



PART #	REFERENCE ID	ACCEPTS TUBE O.D. (in)	A (in)
1000732	25-QDU-1.60	0.25	1.6
1000733	50-QDU-1.57	0.50	1.56
1000735	75-QDU-1.89	0.75	1.88
1000737	100-QDU-2.14	1.00	2.13
1000738	112-QDU-2.00	1.125	2.13
1000740	125-QDU-2.13	1.25	2.25
1000741	150-QDU-2.51	1.50	2.50
1000744	200-QDU-2.51	2.00	2.50

Quick Disconnect Replacement Nut

PART #	REFERENCE ID	THREAD SIZE	COUPLING SIZE
1010101	06-QDNUT	0.375-20	06
1010102	12-QDNUT	0.375-20	12
1010103	18-QDNUT	0.50-20	18
1010104	25-QDNUT	0.50-20	25
1010105	31-QDNUT	1.0625-20	31
1010106	38-QDNUT	1.0625-20	38
1010107	50-QDNUT	0.75-20	50
1010108	62-QDNUT	1-20	62
1010109	75-QDNUT	1.0625-20	75
1010110	87-QDNUT	1.25-20	87
1010111	100-QDNUT	1.375-20	100
1010112	112-QDNUT	1.625-20	112
1010113	125-QDNUT	1.6875-20	125
1010114	138-QDNUT	1.8125-20	138
1010115	150-QDNUT	2-20	150
1010116	162-QDNUT	2.125-20	162
1010117	200-QDNUT	2.50-20	200



Materials:

- 303 stainless steel

Product Features:

- Replace damaged or lost parts

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Quick Disconnect Fittings

Quick Disconnect Replacement Retaining Ring

PART #	REFERENCE ID	COUPLING SIZE
1010201	06-QDRR	06
1010202	12-QDRR	12
1010203	18-QDRR	18
1010204	25-QDRR	25
1010205	31-QDRR	31
1010206	38-QDRR	38
1010207	50-QDRR	50
1010208	62-QDRR	62
1010209	75-QDRR	75
1010210	87-QDRR	87
1010211	100-QDRR	100
1010212	112-QDRR	112
1010213	125-QDRR	125
1010214	138-QDRR	138
1010215	150-QDRR	150
1010216	162-QDRR	162
1010217	200-QDRR	200



Materials:

- 304 stainless steel

Product Features:

- Aligns o-ring for consistent sealing
- Replace damaged or lost parts

Quick Disconnect Replacement O-Ring

Materials:

- Viton® or Buna

TEMPERATURE LIMITS			
O-ring MATERIAL	LOW	SUSTAINED HIGH	INTERMITTENT USE
Viton®	-26 °C	150 °C	205 °C
Buna	-20 °C	80 °C	100 °C



Viton®

PART #	REFERENCE ID	COUPLING SIZE
0600003	2-003-OV	06
0600006	2-006-OV	12
0600008	2-008-OV	18
0600010	2-010-OV	25
0600011	2-011-OV	31
0600012	2-012-OV	38
0600014	2-014-OV	50
0600114	2-114-OV	62
0600116	2-116-OV	75
0600118	2-118-OV	87
0600120	2-120-OV	100
0600216	2-216-OV	112
0600218	2-218-OV	125
0600220	2-220-OV	138
0600222	2-222-OV	150
0600223	2-223-OV	162
0600226	2-226-OV	200

Buna-N

PART #	REFERENCE ID	COUPLING SIZE
0601003	2-003-OB	06
0601006	2-006-OB	12
0601008	2-008-OB	18
0601010	2-010-OB	25
0601011	2-011-OB	31
0601012	2-012-OB	38
0601014	2-014-OB	50
0601114	2-114-OB	62
0601116	2-116-OB	75
0601118	2-118-OB	87
0601120	2-120-OB	100
0601216	2-216-OB	112
0601218	2-218-OB	125
0601220	2-220-OB	138
0601222	2-222-OB	150
0601223	2-223-OB	162
0601226	2-226-OB	200



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