

CO Connect

PNEUMATIC EXTERNAL SEALING CONNECTOR



Connects to:

Straight Expanded Swaged Beaded Barbed



NPT

SAE

Metric



Highlights

- ✓ Test, fill, flush, and plug capabilities
- ✓ Non-interference seal fit
- ✓ Built-in stroke limiter
- ✓ Long seal life
- ✓ Cut and abrasion resistant seal
- ✓ Easy seal replacement

Specifications

Test pressure	Vacuum – 500 psig (34.5 bar) maximum
Pilot pressure	60 psig (4.1 bar) recommended minimum 90 psig (6.2 bar) recommended maximum
Test media	Air, helium, nitrogen, water
Pilot media	Air
Hole size options	0.030 – 3.032 in. 1/8 – 2-1/2 in. NPT 3/8 – 1-3/16 in. SAE M12 – M18 Metric
Materials of construction	Anodized aluminum and stainless steel
Seal material	Silicone Urethane Medical grade silicone
Actuation method	Pneumatic
Connect weight	0.1 – 6.5 lbs. (0.1 – 2.9 kg)

Accessories



Spare Seal
See website.



Body Only
See website.



Lead-in
See website.

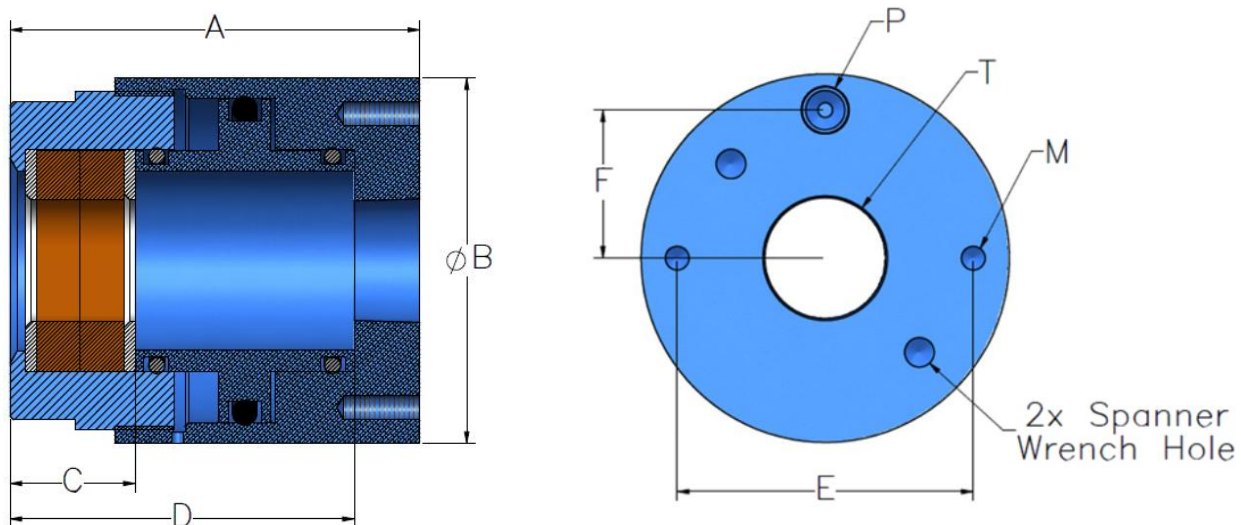


Main Seal Kit
See website.



Springmount
See website.

Dimension



CO	A Overall Length [in. (mm)]	B Overall Diameter [in. (mm)]	C Minimum Insertion [in. (mm)]	D Maximum Insertion [in. (mm)]	E Mounting Distance [in. (mm)]	F Port Distance [in. (mm)]	P Pilot Port [FNPT]	T Test Port [FNPT]	M Mounting Holes	Weight [lbs. (kg)]
30	1.72 (43.7)	0.84 (21.3)	0.58 (14.7)	1.48 (37.6)	0.63 (16.0)	0.32 (8.1)	10-32 UNF	1/16-27	4-40 UNC	0.1 (0.05)
31	2.03 (51.6)	1.49 (37.8)	0.58 (14.7)	1.59 (40.4)	1.10 (27.9)	0.55 (14.0)	1/16-27	1/8-27	1/4-20 UNC	0.3 (0.1)
32	2.78 (70.6)	2.22 (56.4)	0.69 (17.5)	2.24 (56.9)	1.62 (41.1)	0.81 (20.6)	1/8-27	1/4-18	1/4-20 UNC	0.8 (0.4)
33	3.50 (88.9)	3.11 (79.0)	1.07 (27.2)	2.94 (74.7)	2.50 (63.5)	1.25 (31.8)	1/8-27	3/4-14	1/4-20 UNC	1.7 (0.8)
34	4.50 (114.3)	4.23 (107.4)	1.65 (41.9)	3.65 (92.7)	3.25 (82.6)	1.63 (41.4)	1/8-27	3/4-14	1/4-20 UNC	4.1 (1.9)
35	4.60 (116.8)	5.48 (139.2)	1.59 (40.4)	3.68 (93.5)	4.25 (108.0)	2.13 (54.1)	1/8-27	1½-11½	1/4-20 UNC	6.5 (2.9)

* Weight shown is based on connect assembly with largest standard main seal kit size.

** CO30 has pilot port located on side of body (shown below).



Standard Smooth Surface CO Connects						
Seal Range [in. (mm)]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
0.030 – 0.050 (0.8 – 1.3)	CO30-AA	1	CTSC-002759	CTSC-002760	CTSC-002762	SEAL-005031
0.050 – 0.080 (1.3 – 2)	CO30-AB	1	CTSC-002759	CTSC-002767	CTSC-002769	SEAL-005038
0.080 – 0.130 (2 – 3.3)	CO30-AC	1	CTSC-002759	CTSC-002774	CTSC-002776	SEAL-005046
0.100 – 0.180 (2.5 – 4.6)	CO31-AA	1	CTSC-002781	CTSC-002782	CTSC-002784	SEAL-005079
0.180 – 0.260 (4.6 – 6.6)	CO31-AB	1	CTSC-002781	CTSC-002789	CTSC-002791	SEAL-005090
0.260 – 0.340 (6.6 – 8.6)	CO31-AC	1	CTSC-002781	CTSC-002796	CTSC-002798	SEAL-005100
0.340 – 0.420 (8.6 – 10.7)	CO31-AE	1	CTSC-002781	CTSC-002810	CTSC-002812	SEAL-005114
0.420 – 0.510 (10.7 – 13)	CO31-AF	1	CTSC-002781	CTSC-002817	CTSC-002819	SEAL-005119
0.433 – 0.512 (11 – 13)	CO32-AA	1	CTSC-002824	CTSC-002825	CTSC-002827	SEAL-005134
0.512 – 0.591 (13 – 15)	CO32-AD	1	CTSC-002824	CTSC-002839	CTSC-002841	SEAL-005141
0.591 – 0.669 (15 – 17)	CO32-AE	1	CTSC-002824	CTSC-002846	CTSC-002848	SEAL-005147
0.669 – 0.750 (17 – 19.1)	CO32-AG	1	CTSC-002824	CTSC-002860	CTSC-002862	SEAL-005155
0.750 – 0.827 (19.1 – 21)	CO32-AH	1	CTSC-002824	CTSC-002867	CTSC-002869	SEAL-005160
0.787 – 0.866 (20 – 22)	CO33-AB	2	CTSC-002874	CTSC-002882	CTSC-002884	SEAL-005177
0.866 – 0.945 (22 – 24)	CO33-AC	2	CTSC-002874	CTSC-002889	CTSC-002891	SEAL-005182
0.945 – 1.024 (24 – 26)	CO33-AE	2	CTSC-002874	CTSC-002903	CTSC-002905	SEAL-005188
1.024 – 1.102 (26 – 28)	CO33-AF	2	CTSC-002874	CTSC-002910	CTSC-002912	SEAL-005192
1.102 – 1.181 (28 – 30)	CO33-AG	2	CTSC-002874	CTSC-002917	CTSC-002919	SEAL-005197
1.181 – 1.260 (30 – 32)	CO33-AH	2	CTSC-002874	CTSC-002924	CTSC-002926	SEAL-005202
1.260 – 1.339 (32 – 34)	CO33-AJ	2	CTSC-002874	CTSC-002938	CTSC-002940	SEAL-005207
1.339 – 1.417 (34 – 36)	CO33-AK	2	CTSC-002874	CTSC-002945	CTSC-002947	SEAL-005211
1.417 – 1.510 (36 – 38.4)	CO33-AL	2	CTSC-002874	CTSC-002952	CTSC-002954	SEAL-005215
1.496 – 1.614 (38 – 41)	CO34-AA	3	CTSC-002959	CTSC-002960	CTSC-002962	SEAL-005221

Seal Range [in. (mm)]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
1.614 – 1.732 (41 – 44)	CO34-AC	3	CTSC-002959	CTSC-002974	CTSC-002976	SEAL-005227
1.732 – 1.850 (44 – 47)	CO34-AD	3	CTSC-002959	CTSC-002981	CTSC-002983	SEAL-005231
1.850 – 1.969 (47 – 50)	CO34-AF	3	CTSC-002959	CTSC-002995	CTSC-002997	SEAL-005235
1.969 – 2.087 (50 – 53)	CO35-AA	3	CTSC-003002	CTSC-003003	CTSC-003005	SEAL-005239
2.087 – 2.205 (53 – 56)	CO35-AB	3	CTSC-003002	CTSC-003010	CTSC-003012	SEAL-005243
2.205 – 2.323 (56 – 59)	CO35-AC	3	CTSC-003002	CTSC-003017	CTSC-003019	SEAL-005247
2.323 – 2.441 (59 – 62)	CO35-AE	3	CTSC-003002	CTSC-003031	CTSC-003033	SEAL-005252
2.441 – 2.559 (62 – 65)	CO35-AF	3	CTSC-003002	CTSC-003038	CTSC-003040	SEAL-005256
2.559 – 2.677 (65 – 68)	CO35-AG	3	CTSC-003002	CTSC-003045	CTSC-003047	SEAL-005260
2.677 – 2.795 (68 – 71)	CO35-AH	3	CTSC-003002	CTSC-003052	CTSC-003054	SEAL-005264
2.795 – 2.913 (71 – 74)	CO35-AI	3	CTSC-003002	CTSC-003059	CTSC-003061	SEAL-005268
2.913 – 3.032 (74 – 77)	CO35-AJ	3	CTSC-003002	CTSC-003066	CTSC-003068	SEAL-005271

Medical Smooth Surface CO Connects						
Seal Range [in. (mm)]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
0.030 – 0.050 (0.8 – 1.3)	CO30-AA-M	1	CTSC-002759	CTSC-002761	CTSC-002764	SEAL-005035
0.050 – 0.080 (1.3 – 2)	CO30-AB-M	1	CTSC-002759	CTSC-002768	CTSC-002771	SEAL-005042
0.080 – 0.130 (2 – 3.3)	CO30-AC-M	1	CTSC-002759	CTSC-002775	CTSC-002778	SEAL-005048
0.100 – 0.180 (2.5 – 4.6)	CO31-AA-M	1	CTSC-002781	CTSC-002783	CTSC-002786	SEAL-005082
0.180 – 0.260 (4.6 – 6.6)	CO31-AB-M	1	CTSC-002781	CTSC-002790	CTSC-002793	SEAL-005096
0.260 – 0.340 (6.6 – 8.6)	CO31-AC-M	1	CTSC-002781	CTSC-002797	CTSC-002800	SEAL-005103
0.340 – 0.420 (8.6 – 10.7)	CO31-AE-M	1	CTSC-002781	CTSC-002811	CTSC-002814	SEAL-005116
0.420 – 0.510 (10.7 – 13)	CO31-AF-M	1	CTSC-002781	CTSC-002818	CTSC-002821	SEAL-005121
0.433 – 0.512 (11 – 13)	CO32-AA-M	1	CTSC-002824	CTSC-002826	CTSC-002829	SEAL-005137
0.512 – 0.591 (13 – 15)	CO32-AD-M	1	CTSC-002824	CTSC-002840	CTSC-002843	SEAL-005145
0.591 – 0.669 (15 – 17)	CO32-AE-M	1	CTSC-002824	CTSC-002847	CTSC-002850	SEAL-005150
0.669 – 0.750 (17 – 19.1)	CO32-AG-M	1	CTSC-002824	CTSC-002861	CTSC-002864	SEAL-005158
0.750 – 0.827 (19.1 – 21)	CO32-AH-M	1	CTSC-002824	CTSC-002868	CTSC-002871	SEAL-005165
0.787 – 0.866 (20 – 22)	CO33-AB-M	2	CTSC-002874	CTSC-002883	CTSC-002886	SEAL-005179
0.866 – 0.945 (22 – 24)	CO33-AC-M	2	CTSC-002874	CTSC-002890	CTSC-002893	SEAL-005185
0.945 – 1.024 (24 – 26)	CO33-AE-M	2	CTSC-002874	CTSC-002904	CTSC-002907	SEAL-005189
1.024 – 1.102 (26 – 28)	CO33-AF-M	2	CTSC-002874	CTSC-002911	CTSC-002914	SEAL-005194
1.102 – 1.181 (28 – 30)	CO33-AG-M	2	CTSC-002874	CTSC-002918	CTSC-002921	SEAL-005200
1.181 – 1.260 (30 – 32)	CO33-AH-M	2	CTSC-002874	CTSC-002925	CTSC-002928	SEAL-005203
1.260 – 1.339 (32 – 34)	CO33-AJ-M	2	CTSC-002874	CTSC-002939	CTSC-002942	SEAL-005208
1.339 – 1.417 (34 – 36)	CO33-AK-M	2	CTSC-002874	CTSC-002946	CTSC-002949	SEAL-005213
1.417 – 1.510 (36 – 38.4)	CO33-AL-M	2	CTSC-002874	CTSC-002953	CTSC-002956	SEAL-005217
1.496 – 1.614 (38 – 41)	CO34-AA-M	3	CTSC-002959	CTSC-002961	CTSC-002964	SEAL-005223

Seal Range [in. (mm)]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
1.614 – 1.732 (41 – 44)	CO34-AC-M	3	CTSC-002959	CTSC-002975	CTSC-002978	SEAL-005228
1.732 – 1.850 (44 – 47)	CO34-AD-M	3	CTSC-002959	CTSC-002982	CTSC-002985	SEAL-005232
1.850 – 1.969 (47 – 50)	CO34-AF-M	3	CTSC-002959	CTSC-002996	CTSC-002999	SEAL-005236
1.969 – 2.087 (50 – 53)	CO35-AA-M	3	CTSC-003002	CTSC-003004	CTSC-003007	SEAL-005241
2.087 – 2.205 (53 – 56)	CO35-AB-M	3	CTSC-003002	CTSC-003011	CTSC-003014	SEAL-005245
2.205 – 2.323 (56 – 59)	CO35-AC-M	3	CTSC-003002	CTSC-003018	CTSC-003021	SEAL-005248
2.323 – 2.441 (59 – 62)	CO35-AE-M	3	CTSC-003002	CTSC-003032	CTSC-003035	SEAL-005253
2.441 – 2.559 (62 – 65)	CO35-AF-M	3	CTSC-003002	CTSC-003039	CTSC-003042	SEAL-005257
2.677 – 2.795 (68 – 71)	CO35-AH-M	3	CTSC-003002	CTSC-003053	CTSC-003056	SEAL-005266
2.795 – 2.913 (71 – 74)	CO35-AI-M	3	CTSC-003002	CTSC-003060	CTSC-003063	SEAL-005269
2.913 – 3.032 (74 – 77)	CO35-AJ-M	3	CTSC-003002	CTSC-003067	CTSC-003070	SEAL-005272

Standard NPT Threaded Surface CO Connects

Seal Range [in.]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
1/8	CO31-AD	1	CTSC-002781	CTSC-002803	CTSC-002805	SEAL-005106
1/4	CO32-AB	1	CTSC-002824	CTSC-002832	CTSC-002834	SEAL-005139
3/8	CO32-AF	1	CTSC-002824	CTSC-002853	CTSC-002855	SEAL-005152
1/2	CO33-AA	1	CTSC-002874	CTSC-002875	CTSC-002877	SEAL-005175
3/4	CO33-AD	1	CTSC-002874	CTSC-002896	CTSC-002898	SEAL-005187
1	CO33-AI	1	CTSC-002874	CTSC-002931	CTSC-002933	SEAL-005205
1-1/4	CO34-AB	1	CTSC-002959	CTSC-002967	CTSC-002969	SEAL-005225
1-1/2	CO34-AE	1	CTSC-002959	CTSC-002988	CTSC-002990	SEAL-005234
2	CO35-AD	1	CTSC-003002	CTSC-003024	CTSC-003026	SEAL-005250
2-1/2	CO35-AK	1	CTSC-003002	CTSC-003073	CTSC-003075	SEAL-005273

Standard Metric Threaded Surface CO Connects

Seal Range	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
M12	CO32-M12	1	CTSC-002824	CTSC-003094	CTSC-003096	SEAL-005166
M14	CO32-M14	1	CTSC-002824	CTSC-003101	CTSC-003103	SEAL-060029
M16	CO32-M16	1	CTSC-002824	CTSC-003108	CTSC-003110	SEAL-054033
M18	CO32-M18	1	CTSC-002824	CTSC-003115	CTSC-003117	SEAL-046252

Standard SAE Threaded Surface CO Connects

Seal Range [in.]	Connect	Number of Seals	Body Only Part Number	Assembly Part Number (Body Only + Main Seal Kit)	Main Seal Kit Part Number	Spare Seal Part Number
3/8	CO31-SAE-0375	1	CTSC-002781	CTSC-003199	CTSC-003201	SEAL-038377
7/16	CO31-SAE-0437	1	CTSC-002781	CTSC-003206	CTSC-003208	SEAL-038098
9/16	CO32-SAE-0562	1	CTSC-002824	CTSC-003220	CTSC-003222	SEAL-046796
5/8	CO32-SAE-0625	1	CTSC-002824	CTSC-003227	CTSC-003229	SEAL-040834
11/16	CO32-SAE-0687	1	CTSC-002824	CTSC-003234	CTSC-003236	SEAL-055610
1-3/16	CO33-SAE-1187	1	CTSC-002874	CTSC-003290	CTSC-003292	SEAL-042566