

RITE QUICK COUPLINGS



**for
liquid
and
gas
transfer
systems**



Catalogue 42



Ritepro Inc., Montreal, Canada



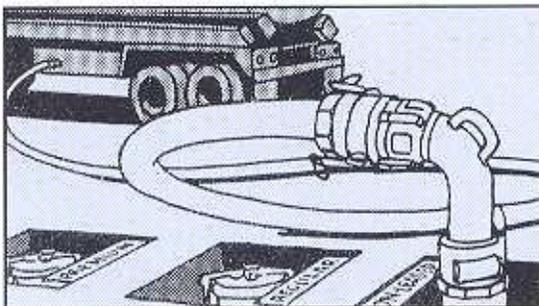
A growth industry





Flexible, portable Tight-fill system facilitates rapid switching from one product to another, speeding up delivery schedules.

Quick couplings are easy to handle, require no threading, no tools, no twisting, no springs and no snaps. Operators prefer their smooth, easy operation and prolonged hose life.



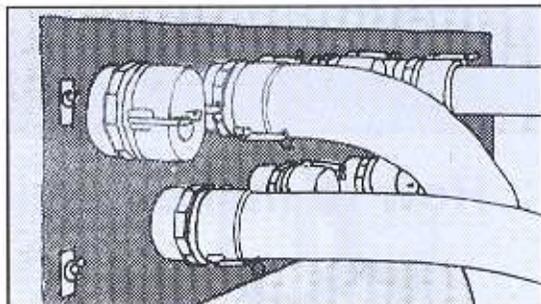
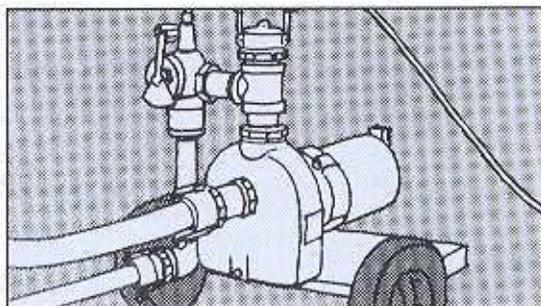
Rugged quick couplings ensure maximum utilization of mobile equipment. Their rugged construction will stand up to years of heavy use. This is especially important in developing areas where replacement and repair costs are abnormally high. Special metals and gasket materials are available to handle problems of pressure, corrosion, volatility and temperature.

Rite Quick Couplings save labor, time and material

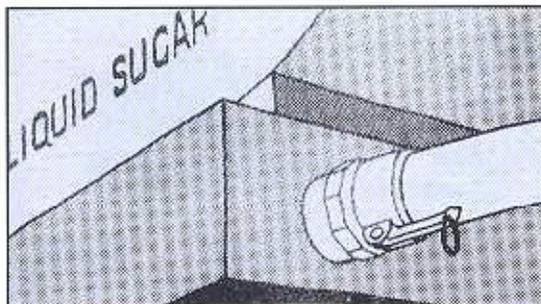
Cam and groove quick couplings save labor because they are so quick and easy to use. Installation is simple; operators need little or no training; their rugged construction stands up well to heavy use.

Quick couplings save time because of the great flexibility they bring to any liquid or gas handling transfer system, or for that matter, anything that flows. When there is a need to accommodate rapid shift in supply and demand they facilitate immediate change in product flow between manufacturing, storage and distribution facilities. Losses and interruption of flow are kept to a minimum.

Quick coupling systems are simple to plan and set up. They save material and space eliminating the redundancy of piping and fittings associated with permanent installations. Their portability and flexibility permit greater utilization.



Couplings are designed so that the pressure in the system completes the seal. If pressure increases, locking pressure increases too. This feature ensures complete safety when handling hazardous materials.



Quick couplings reduce or eliminate delays at key measuring and blending stations when there are frequent product changes. This is only one of many ways in which they may be used to increase productivity of expensive machinery and equipment.



Speedy, leak-proof couplings ensure minimum interruption of throughput, minimum loss of product or contamination.

Eight standard parts — each one in 12 sizes



A

Part A Adaptor Female Thread

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050A	075A	100A	125A	150A	200A
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250A	300A	400A	500A	600A	800A

Part B Coupler Male Thread

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050B	075B	100B	125B	150B	200B
Size	2 1/2"	3"	4"	5"	6"	
Part No.	250B	300B	400B	500B	600B	

B



C

Part C Hose Shank Coupler

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050C	075C	100C	125C	150C	200C
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250C	300C	400C	500C	600C	800C

Part F Adaptor Male Thread

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050F	075F	100F	125F	150F	200F
Size	2 1/2"	3"	4"	5"	6"	
Part No.	250F	300F	400F	500F	600F	

F





D

Part D Coupler Female Thread

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050D	075D	100D	125D	150D	200D
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250D	300D	400D	500D	600D	800D

Part DC Dust Cap For adaptors

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050DC	075DC	100DC	125DC	150DC	200DC
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250DC	300DC	400DC	500DC	600DC	800DC

DC



E

Part E Hose Shank Adaptor

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050E	075E	100E	125E	150E	200E
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250E	300E	400E	500E	600E	800E

Part DP Dust Plug For Couplers

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Part No.	050DP	075DP	100DP	125DP	150DP	200DP
Size	2 1/2"	3"	4"	5"	6"	8"
Part No.	250DP	300DP	400DP	500DP	600DP	800DP

DP



Note: Available with NPT or BSP threads.
 All 1/2" couplers have only one handle.
 All 8" couplers have four handles.

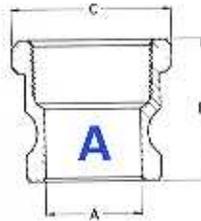
Rite standard dimensions

Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
C	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$

Milímetros

SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	20.6	24.6	28.6	35.7	46.0	55.8	73.0	97.6	122.2	149.2
B	38.9	41.3	44.5	55.6	27.2	61.9	69.9	89.9	79.3	87.3	88.9
C	29.4	36.1	44.5	55.6	66.7	74.6	92.1	106.4	138.1	163.5	193.7



Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
E	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$
G	$1\frac{1}{8}$	2	$2\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$	$10\frac{1}{8}$	

Milímetros

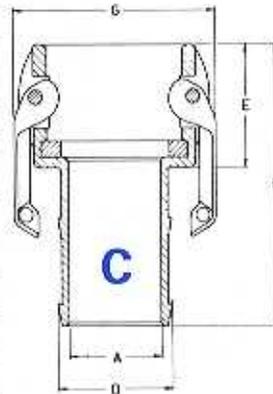
SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	20.6	23.8	28.6	35.7	49.2	55.6	73.0	97.6	123.8	149.2
B	47.6	55.6	60.3	69.9	73.0	79.4	89.9	90.5	100.0	103.2	104.8
E	31.8	33.3	38.5	47.6	47.6	54.0	57.2	58.7	61.9	65.1	66.7
G	42.9	50.8	61.9	79.4	86.5	96.8	109.5	139.7	168.3	193.7	268.3

Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$2\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{1}{4}$	$4\frac{1}{8}$	$4\frac{1}{4}$	$4\frac{3}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$6\frac{1}{4}$	$7\frac{1}{8}$	$9\frac{1}{8}$
D	$\frac{9}{16}$	$\frac{11}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$
E	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{5}{8}$
G	$1\frac{1}{8}$	2	$2\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$	$10\frac{1}{8}$

Milímetros

SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	13.5	20.6	25.4	31.8	42.9	54.0	66.7	88.9	117.5	146.1
B	66.7	84.1	92.3	104.8	108.0	123.8	126.5	160.3	169.9	187.3	238.1
D	15.1	21.4	27.4	34.1	40.5	53.2	66.7	79.4	104.8	130.2	155.8
E	31.8	33.3	38.1	47.6	47.6	54.0	57.2	58.7	61.9	65.1	66.7
G	42.9	50.8	61.9	79.4	86.5	96.8	109.5	139.7	168.3	193.7	268.3



Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$1\frac{1}{4}$	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$4\frac{1}{4}$	$4\frac{3}{8}$
E	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{5}{8}$
G	$1\frac{1}{8}$	2	$2\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$	$10\frac{1}{8}$	

Milímetros

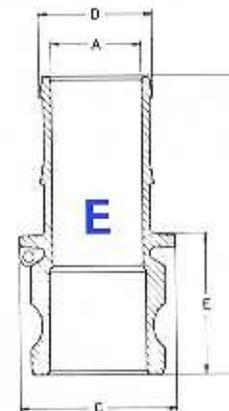
SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	20.6	23.8	28.6	35.7	47.6	55.6	73.0	97.6	122.2	149.2
B	46.0	52.4	60.3	69.9	69.9	81.0	85.7	88.9	100.0	103.2	104.8
E	31.8	33.3	38.1	47.6	47.6	54.0	57.2	58.7	61.9	65.1	66.7
G	42.9	50.8	61.9	79.4	83.5	96.8	109.5	139.7	168.3	193.7	268.3

Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$2\frac{1}{8}$	3	$3\frac{1}{8}$	$4\frac{1}{8}$	$4\frac{1}{4}$	$5\frac{1}{8}$	$5\frac{1}{4}$	$6\frac{1}{8}$	$6\frac{3}{8}$	$7\frac{1}{8}$	$9\frac{1}{8}$
C	$\frac{21}{32}$	$1\frac{1}{2}$	$1\frac{7}{8}$	2	$2\frac{1}{8}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$
D	$\frac{11}{16}$	$\frac{21}{32}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$
E	$1\frac{1}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{5}{8}$

Milímetros

SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	13.5	20.6	25.4	31.8	42.9	54.0	66.7	88.9	117.5	146.0
B	61.1	76.2	90.5	106.4	112.7	131.8	149.7	166.3	175.4	200.0	247.0
C	21.4	31.8	36.5	50.9	58.7	73.0	80.2	103.2	131.0	154.0	161.0
D	15.1	21.4	27.4	34.1	40.5	53.2	66.7	79.4	104.8	130.2	155.8
E	26.2	25.4	33.3	49.2	52.4	61.9	60.3	66.7	67.5	69.9	75.4



Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
A	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$
B	$2\frac{1}{2}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$	4	$4\frac{1}{8}$	$4\frac{1}{4}$	$4\frac{3}{8}$	$4\frac{1}{2}$
C	$1\frac{1}{32}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$
E	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{3}{8}$

Milímetros

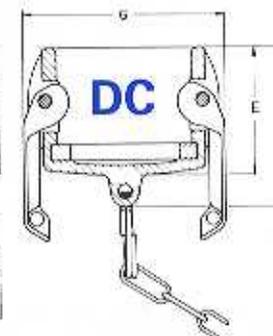
SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
A	14.3	20.6	24.6	28.6	35.7	46.0	55.6	73.0	97.6	122.2	149.2
B	57.2	63.5	67.5	77.8	82.6	87.3	101.8	103.2	117.5	119.1	120.7
C	29.4	36.1	44.5	55.6	66.7	74.6	92.1	106.4	138.1	163.5	193.7
E	38.9	41.3	44.5	54.0	55.6	61.9	68.3	69.9	77.8	77.8	79.4

Inches

Size Dimension	$\frac{1}{2}$	$\frac{3}{8}$	1	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3	4	5	6
B	$1\frac{1}{8}$	$1\frac{1}{4}$	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$3\frac{5}{8}$	$4\frac{1}{8}$	$4\frac{3}{8}$
E	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	2	2	$2\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{3}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$2\frac{5}{8}$
G	$1\frac{1}{8}$	2	$2\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{3}{8}$	$3\frac{1}{2}$	$4\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$	$10\frac{1}{8}$

Milímetros

SIZE DIM.	15	20	25	32	40	50	65	80	100	125	150
B	42.9	46.1	54.0	63.5	63.5	69.9	78.6	78.4	85.7	90.5	104.8
E	33.4	36.5	41.3	50.9	50.8	57.2	61.9	63.5	66.7	69.3	73.0
G	42.9	50.8	61.9	79.4	86.5	96.8	109.5	139.7	168.3	193.7	268.3



Inches

Available in Aluminium, Bronze, Ductile Iron, Cast Iron and Stainless Steel

Overall width with Cams open

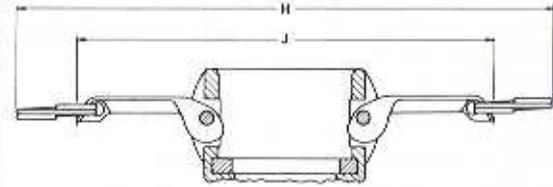
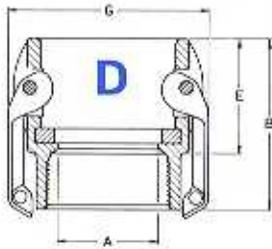
Inches

Size Dimension	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
H	5 7/8	6 5/8	7 1/2	9 1/4	9 5/8	10	10 1/2	12 1/4	13 3/8	14 1/2	19 1/2
J	4 1/2	4 3/4	5 1/2	7 3/8	7 3/4	7 3/4	8 1/2	9 1/4	10 3/8	12	16 1/2

Millimetres

SIZE DIM	15	20	25	32	40	50	65	80	100	125	150
H	149.2	157.2	181.0	235.0	244.5	254.0	266.7	311.2	339.7	368.3	487.4
J	103.2	111.1	139.7	182.6	188.9	200.0	211.1	247.7	276.2	304.8	419.1

*One handle only (divide "J" & "H" by two)



Standard units for special jobs

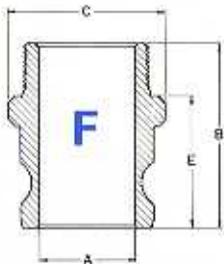
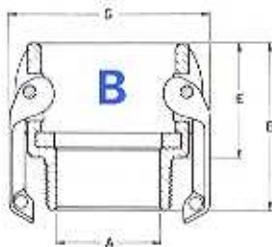
We have illustrated in the two pictures opposite, only eight variations of our standard parts for special applications. We have many more in stock. Call or write us if you have a special application. If we don't already have it in stock we will design and make one to your specifications.

Upper left picture

1. Combination Coupler and Adaptor for connecting different sizes of pipe or hose
2. Spool Adaptor to connect two lengths of hose when both have coupler ends.
3. Spool Adaptor and reducer.
4. Spool Coupler and reducer for two lengths of hose with adaptor ends. Available in all sizes for reducing and increasing.

Lower left picture

5. 90° Elbow Coupler.
6. Tank car Adaptor with female thread.
7. FLB Tank Truck Round Flange Coupler.
8. FLA Tank Truck Round Flange Adaptor.



Line Pressure Ratings

Inches/psi

Size	Aluminium, Bronze Ductile Iron	Stainless Steel Steel & Monel	Cast Iron
1/2	150	150	125
3/4	250	250	125
1	250	250	125
1 1/4	250	250	125
1 1/2	250	250	125
2	250	250	125
2 1/2	150	225	100
3	125	200	100
4	100	100	100
5	75	100	100
6	75	100	100
8	75	100	100

Millimetres/kg/cm²

Size	Aluminium, Bronze Ductile Iron	Stainless Steel Steel & Monel	Cast Iron
15	10.54	10.54	8.79
20	17.58	17.58	8.79
25	17.58	17.58	8.79
32	17.58	17.58	8.79
40	17.58	17.58	8.79
50	17.58	17.58	8.79
65	10.54	15.82	7.03
80	8.79	14.06	7.03
100	7.03	7.03	7.03
125	5.27	7.03	7.03
150	5.27	7.03	7.03
200	5.27	7.03	7.03



For information about sizes other than shown on these pages, please contact your distributor.

Secondary Lock Systems for Rite Couplers

The design of cam and groove couplings is such that an increase in internal pressure will increase the clamping force on the cam (handle). Handles will not open due to pressure alone. However, there are applications that for **hazardous and safety reasons**, a secondary lock may be desirable. This is often the case in the chemical industry where dangerous fluids are often present. **In many cases a lock is required where a separate and deliberate movement must be performed before the coupling handles can be opened and the coupling halves separated.**



Figure 1

Figure 2

In many locations, pins or other removable mechanical devices are used to provide a lock. These are often difficult to use if the operator is wearing protective equipment and the components are small. Ritepro's secondary locks are an integral part of the coupling and so they do not need to be removed. They are easy to operate, even while wearing gloves.



The **Anti-Vibration Spring** (Figure 1) clamps the handles in position. The spring remains attached to one of the handles when open so it cannot be lost. This lock is easily field retrofit to existing couplers. Just remove the finger ring, slide the spring on and reinstall the ring. A secondary motion is required to place the Spring in lock position.

The **Spring Clip** (Figure 2) locks automatically when the handle is closed. To open the lock, press the Clip to the side and open the handle normally. This system can be retrofit, however, the handle rivets need to be removed. This option is best ordered from the factory.

The **Secondary Coupling Lock** (figure 3) is an integral part of the coupling design. When the rotational lock is closed, the handles cannot be opened. A secondary motion is required to lock or unlock this device. This is ideal when space is at a premium, i. e. batching where multiple connections are arranged on a manifold.



Figure 3

These locks are available to fit on all coupling styles, B, C, D, and DC as well as all materials, aluminum, brass, stainless steel etc.. All the locks are stainless steel for corrosion resistance. More detailed information on the Secondary Coupling Lock (Figure 3) can be found on Standard Specification Sheet SCL. For further information on any of these secondary locks, contact your distributor.

Prices and Quotations

Prices quoted do not include taxes and are F.O.B. our plant.
All quotations by our distributors are subject to confirmation
and acceptance by head office. Quotations are firm for 30 days.

Cancellations and Returns

Firm orders accepted by us may only be cancelled subject
to recovery of costs incurred. No goods may be returned for
credit unless authorized by head office and subject to
restocking and handling charges.

**Couplers and adaptors manufactured
for special applications cannot be
returned for credit.**

Warranty

Ritepro Inc. warrants any of its products against defects of
materials or workmanship for a period of one year from date
of shipment and is limited to repair, replacement or
refunding of purchase price. We will not be responsible for
any claims for labour or any other expenses or
consequential or secondary damages in any case.

Registration

Couplings are registered in all Canadian Provinces under the authority
of the Boiler and Pressure Vessels Act, as detailed in CSA Standard B51.

Base Canadian Registration Number OA 0577.6



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