

# Liquip Dry Break Couplings

11 August 1993

Tech Talk No: **T002**  
 Product: **Todo - Dry Break Couplings**  
 Part Number:  
 Terminology: **3 Point Industrial Bayonet Flange**  
 Opposition: **Gilbarco (Avery-Hardoll)**  
**Emco Wheaton (Buckie)**

## Features

<b>Todo</b>	<b>Avery Hardoll</b>	<b>Buckie</b>
Viton trim standard	extra	extra
Flanges drilled std (tank units)	extra	4" only
Swivel std (couplings)	yes	N/A
Swivel serviced independently	integral	N/A
Increased BSP & flange site	no/no	yes/no
Aluminium units all aluminium	no	yes
Stainless steel full range	2 1/2 only	1 1/2" & 2 1/2"
Size range 1" to 4"	1 1/2 to 4"	1" to 4"
Handle std 1 1/2 unit	extra	N/A
Handle std 2 1/2" 3" & 4"	yes	yes
Identification tag all units	no	no
P/No - material, S/No, Trim		
Standard threads BSP	BSP	NPT
Standard flange ASA150	blank	4" TTMA, ASA150

Page (2) Size comparisons and materials  
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 Page (4) Bayonet flange size check

**Note:** Todo and Avery Hardoll size Bayonet x BSP flange, buckle size thread  
 eg; 2" Buckie is a 1 1/2 x 2" NPT  
 3" Buckie is a 2 1/2 x 3" NPT

There is no such thing as a two (2) inch dry break. Check size first, see flange details.

**Note 2:** Selectivity available on all units

**Note 3:** Buckie interlocks only when coupled and rotated to open valves, you must use handle. Handle interlock pin is critical if damage valve can be opened any time whether coupled or not.

### Size Comparison Chart

<b>Tank Units BSP</b>	<b>Todo</b>	<b>Avery Hardoll</b>	<b>Buckie</b>
1" x 3/4"	yes	N/A	no
1" x 1"	yes	N/A	yes
1" x 1 1/4"	yes	N/A	no
1 1/2" x 1 1/2"	yes	yes	yes
1 1/2" x 2"	yes	no	yes
2 1/2" x 2 1/2"	yes	yes	no
2 1/2" x 3"	yes	no	yes
3" x 3"	yes	yes	no
3" x 4"	no	no	yes
4" x 4"	yes	yes	yes
6" x 6"	yes	no	no
<b>Tank Units Flanged</b>			
1 1/2" x 1 1/2"	yes	yes	no
1 1/2" x 2"	yes	no	no
2 1/2" x 2 1/2"	yes	yes	no
2 1/2" x 3"	yes	no	no
3" x 3"	yes	yes	no
3" x 4"	no	no	no
4" x 4"	yes	yes	yes
6" x 6"	yes	no	no
<b>Couplings BSP</b>			
1" x 3/4"	yes	N/A	no
1" x 1"	yes	N/A	yes
1" x 1 1/4"	yes	N/A	no
1 1/2" x 1 1/2"	yes	yes	yes
1 1/2" x 2"	yes	no	yes
2 1/2" x 2 1/2"	yes	yes	no
2 1/2" x 3"	yes	no	yes
3" x 3"	yes	yes	no
3" x 4"	no	no	yes
4" x 4"	yes	yes	yes
6" x 6"	yes	no	no

## Materials

	<b>Todo</b>	<b>Avery Hardoll</b>	<b>Buckie</b>
Aluminium	yes	yes	yes
Gunmetal	yes	yes	no
Brass	no	no	yes
Stainless steel 3/6	yes	2 1/2 only	1 1/2 & 2 1/2
Special Iron	yes	no	yes
Viton A	yes	yes	yes
Buna	yes	yes	yes
EPDM	yes	yes	yes
EPR	yes	yes	yes
Teflon	no *	no *	no *
Kalrez	yes	no	no

(\*) Tank unit yes, coupling NO