

# DIXON VALVE DRY DISCONNECT FITTINGS - MANN-TEK DESIGN

## Features & Benefits

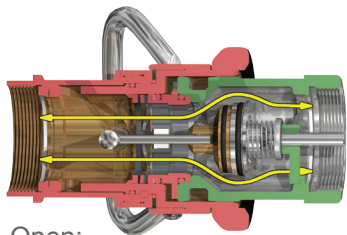
Dry disconnect couplings are designed for the quick and spill free connection and disconnection of hoses and pipelines when transferring expensive hazardous product that is costly to clean up, reprocess or dispose of. Dry disconnects are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.



- easy to handle - push and turn - free flow, turn and pull - closed
- time saving - no need to drain hoses or pipe systems
- economical - no loss or spillage of liquids at connection or disconnection
- safety - the valve cannot be opened until the unit is coupled
- environment friendly - accidental spillage eliminated when properly used
- safe and reliable - due to rugged construction
- product life - uncomplicated design and high quality materials ensures long product life
- selectivity - To avoid product contamination, selective versions of the couplers and adapters are available. Contact the factory for further information.
- produced according to NATO standard STANAG 3756 and ATOFINA SGM 2049.TUY.C.
- interchanges with Avery Hardoll and Todo-matic® STANAG 3756
- Working Pressure (at ambient temperature 70°F) -
  - aluminum: **230 PSI** up to 4"
  - brass/ gunmetal \*: **230 PSI** up to 4"
  - stainless steel: **360 PSI**
- Optional seals:
  - EPDM
  - NBR - nitrile
  - FFPM
  - FKM

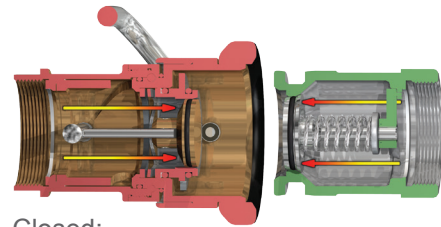
\* produced to U.S. government bronze specification G

## How It Works



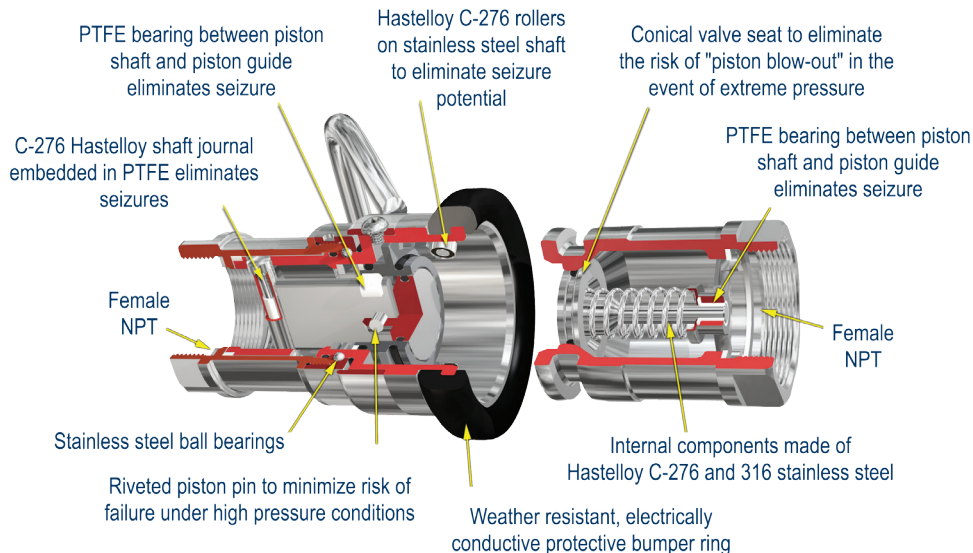
Open:

- Push and turn  
it's coupled - full flow



Closed:

- Turn and pull  
it's released - no spillage



DDC200SS pictured

## Dry Disconnect Fittings for Steam Service

**Applications:**

Designed to fit hoses carrying steam used in chemical (heating), pharmaceutical (disinfection and sterilization) and at loading bays

**Features:**

- coupling housing and all inner parts: stainless steel
- seals: EPDM 291, other materials available, contact Dixon
- unintentional separation is eliminated preventing accidents and avoiding unintended down time
- performance unaffected by surface rust
- lockable versions are available on 1½" and 2", contact Dixon
- couplers supplied with double handles



female NPT x adapter

**adapter x female NPT**

Female NPT	Body Size	Stainless Steel
3/4"	56mm	<b>DDSA075SS</b>
1"	56mm	<b>DDSA100SS</b>
1½"	70mm	<b>DDSA150SS</b>
2"	70mm	<b>DDSA200SS</b>



female NPT x coupler

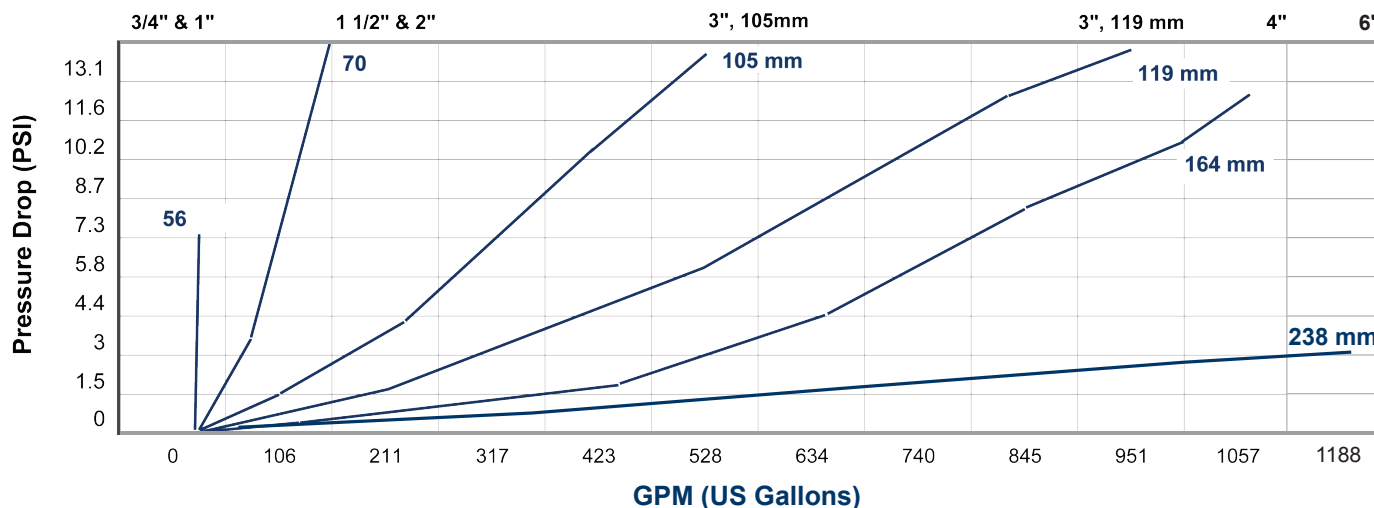
**coupler x female NPT**

Female NPT	Body Size	Stainless Steel
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**Dry Disconnect Couplings**

**DRY DISCONNECTS**

Flow Rate  
Media: Water Temp: 60° F



**Spillage on Disconnection**

The test was made by coupling and uncoupling 10 times under pressures between one (1) and ten (10) bars. The result we got is a total spillage over 10 coupling cycles and an average spillage on each coupling cycle. The test was carried out with water under ambient temperature.

Size	Socket diameter	Total spill 10 cycles	Average spill 1 cycle
1" – DN 25	56 mm	1 ml	0.1 ml
2" – DN 50	70 mm	3 ml	0.3 ml
2½" – DN 65	105 mm	8 ml	0.8 ml
3" – DN 80	119 mm	10 ml	1.0 ml
4" – DN 100	164 mm	35 ml	3.5 ml

**Options for Hose and Tank Units**



**Electronic Sensors**

**Electronic Sensors** detect the position of the driving plate inside of the hose unit.

No modification on the tank is required. This makes it possible to identify if the hose unit is connected to a tank unit and if they are in an open position.

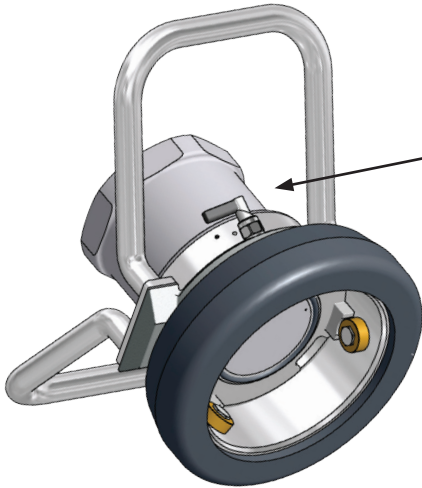


### Dry Disconnect Couplings Options for Hose and Tank Units

### DRY DISCONNECTS

#### Locking Devices

**Locking Devices** eliminate the unintentional disconnection when subjected to vibration from transfer pumps



4" Hose unit with locking device



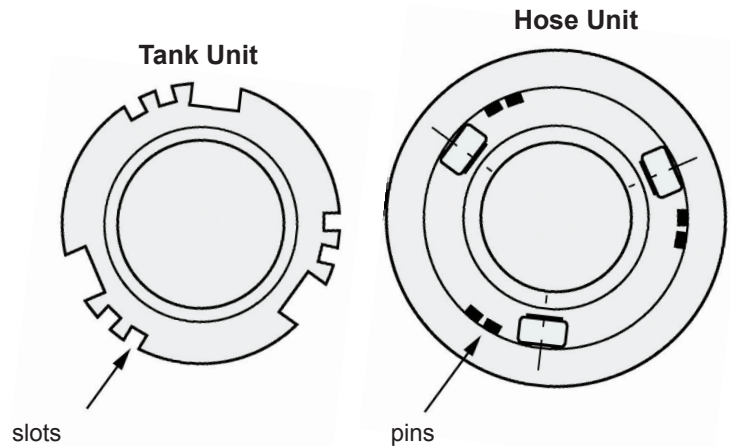
2" Hose unit with locking device

#### Selectivity Options

**Selectivity** versions of Hose and Tank units are available to prevent the accidental mixing of media.

The Tank units are furnished with slots and the Hose unit with pins that interlock upon connection.

A number of selectivity options are possible depending on coupling size.



#### Handle Options

Optional handles are available for 1"- 4" Hose couplers. 2" Hose unit shown.

