Dixon[®] MannTek Servicing Components & Tools



The Right Connection

Rebuild Guidance for Dual Fuel Systems

Purpose:

This document offers guidance on the necessary parts and components for rebuilding MannTek Dry Disconnect Fittings and MannTek Dry Gas Fittings, versions 1.0 and 2.0, with a focus on sizes and styles commonly found in dual fuel systems within the hydraulic fracking industry.

For routine or preventative maintenance, and repairs due to damage, the table on the back of this document details the parts, quantities, and tools needed or recommended for servicing couplers and adapters. Preventative maintenance typically involves replacing O-rings and bushings, while damage repairs often require replacing handles, protective rings (bumpers), and sometimes inner packs.

Applicability:

- 2" and 3" dry disconnect couplers and adapters (stainless steel, versions 1.0 & 2.0)
- 2" and 3" dry gas couplers and adapters (stainless steel, versions 1.0 & 2.0)

Differentiating Between Version 1.0 & 2.0:

- Part number identification: Version 2.0 part numbers begin with "2" (e.g., 2DGC200SS vs. DGC200SS)
- Protective ring (bumper):
 - Version 2.0: Larger (deeper) bumper extending further back on the coupler head, with alignment arrows Version 1.0: Short, round bumper without alignment arrows
- Handle design: Version 2.0 handles have a flat diamond-shaped top
 Version 1.0 handles have a rounded top

Notes (General and specific to table on back):

- 1. O-rings will need to be replaced annually or more frequently for harsher environments. Given the harsh environment of hydraulic fracturing, it is recommended that the components included in a repair kit also be replaced. This will require one O-ring kit and one repair kit for each coupler and adapter serviced.
- 2. Both handles and their hardware should be replaced during the repair process. Protective rings many also need replacing.
- 3. The components of inner pack kits typically only need to be replaced if they are worn or damaged from misuse. When replacing inner packs, O-ring kits are needed for DDCs but not DGCs. Additionally, since the coupler is disassembled during the inner pack replacement, it is recommended that a repair kit also be used to replace those components.
 - DGC Inner Pack kits come with O-rings pre-installed; additionally these kits come with two additional O-rings which allow for all O-rings to be replaced on a coupler during maintenance
 - DDC Inner Pack kits do not come with O-rings pre-installed; an O-Ring Kit is needed. DDCs are used in a greater variety of applications which dictate different O-ring material requirements
- 4. The O-ring kits listed in this literature are made of FKM (denoted by the 'VI' in the part number).
- 5. Handle kits, which include all the necessary components for a complete handle replacement on a coupler, are available for certain sizes and versions.
- 6. Individual handle components are available. Quantities, listed in the table, reflect the number of components needed for a complete handle change out on a coupler.
- 7. Tools are used to remove the inner pack in the couplers and the piston/poppet in the adapter.
- 8. Wrenches are tailored to fit the flats of the 2" and 3" coupler sleeves and are used for both installation on a hose and coupler disassembly.
- 9. Contact Dixon if other O-ring materials or repair components are needed.

References:

Dual Fuel: https://dixonvalve.com/sites/default/files/documents/Dual-Fuel-Brochure-2023-FINAL.pdf Dixon MannTek DDC and DGC Couplings – 2.0 Design: https://dixonvalve.com/sites/default/files/documents/New-Manntek-DDC-DGC_1.pdf Dry Disconnects and Breakaways: https://dixonvalve.com/cites/default/files/documents/Dpy Disconnect 2024 pdf

Dry Disconnects and Breakaways: https://dixonvalve.com/sites/default/files/documents/Dry-Disconnect-2024.pdf MannTek Coupling and Adapter Service Instructions, various

Dixon® MannTek Servicing Components and Tools



				Handle Replacement Components	cement Com	ponents			Inner Pack	
Part # *	O-Ring Kit	Repair Kit	Handle Kit	Handles (qty. req.)	Screws or Bolts (qty. req.)	Nuts or Lock Washers (qty. req.)	Inner Pack Kit	Protective Ring (Bumper)	Removal Tool or Adapter Removal Tool	Wrench
DDA200SS	70AORKVI	70ARKSS	ŀ	ł	1	I	I	ł	TOOL020	I
DDC200SS	70CORKVI	70CRKSS	70DDCHK	H-S2-44-01 (1)	1099-4 (3) 1101-4	1101-4 (3)	S-IP2-44	1018-02	T00L221-1	T00L265-3
2DDC200SS	70CORKVI	70CRKSS2.0	70DDCHK2.0	7622-1B/B (2)	7616-4 (4)	I	S-IP2S-44	7607-09	T00L221-1	T00L265-3
DDA300SS	119AORKVI	119ARKSS	I	ł	ł	I	ł	I	TOOL020	ł
DDC300SS	119CORKVI	119CRKSS	119DDCHK	1189-1B (2)	1141-4 (4)	I	S-IP4-44	1058-02	T00L421-1	T00L410-3
2DDC300SS	119CORKVI	119CRKSS2.0	119DDCHK2.0 7632-1B/B (2)	7632-1B/B (2)	7617-4 (4)	I	S-IP4S-44	7609-09	T00L421-1	T00L410-3
DGA200SS	71DGAORKVI	71DGARKSS	I	ł	-	I	I	ł	TOOL020	
DGC200SS	71DGCORKVI	71DGCRKSS	71DGCHK	3191-1B/0 (2)	3256-4 (2) 1247-4	1247-4 (2)	S-IPM2-24-71	1018-02	TOOL221LPG-4	T00L265-3
2DGC200SS	71DGCORKVI2.0	71DGCRKSS2.0	71DGCHK2.0	7622-1B/0 (2)	7616-4 (4)	I	S-IP2M-2471	7607-09	TOOL221LPG-4	T00L265-3
DGA300SS	119DGAORKVI	119DGARKSS	1	-	I	ł	I	ł	TOOL020	
DGC300SS	119DGCORKVI	119DGCRKSS	119DGCHK	1991-1B/0 (2)	1141-4 (4)	ł	S-IPM4-24-71	1058-02	T00L421-1	T00L410-3
2DGC300SS	119DGCORKVI	119DGCRKSS2.0	119DGCHK2.0	119DGCHK2.0 7633-1B/O (2) 7617-4 (4)	7617-4 (4)	ł	S-IP4M-24-71	7609-09	T00L421-1	T00L410-3
* Parts listed are	* Parts listed are for female NPT connections. Parts with flance connections (denoted by "FL" at end of nart number. e.o. DGC200SSFL) use the same renair parts and tools as	nections Parts with	h flange connect	ions (denoted by	"FL" at end o	f nart numh	per e a DGC200	SSEL) use th	e same renair narts	and tools as

Parts listed are for female NPT connections. Parts with flange connections (denoted by "FL" at end of part number, e.g. DGC200SSFL) use the same repair parts and tools as those with female NPT connections.

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