

# MannTek

## DEC

Dry Evotek Couplings



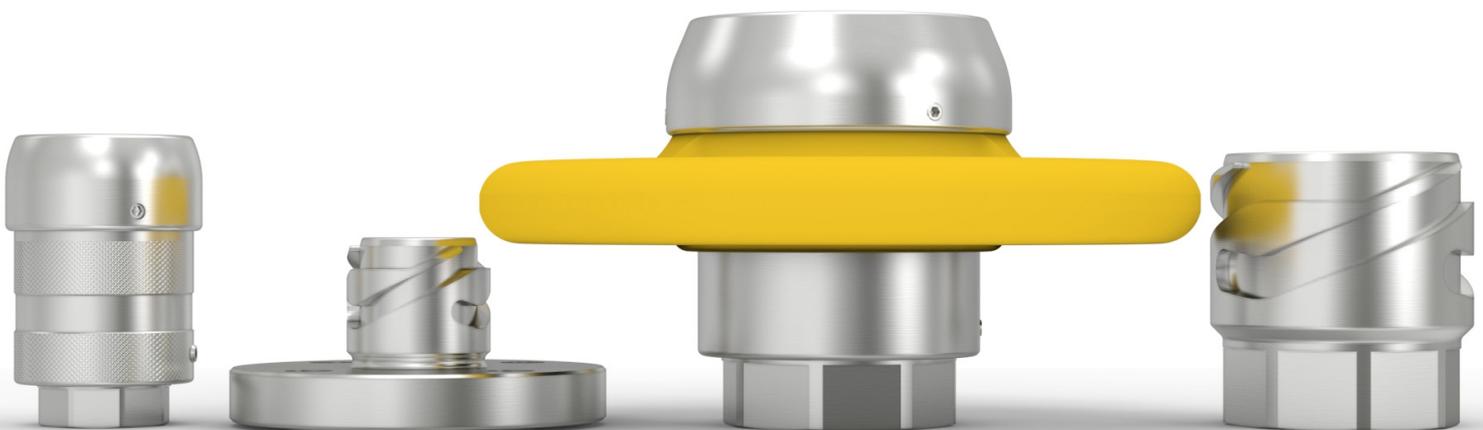
for the chemical industry

DEC – Dry Evotek Couplings stands for another generation of dry disconnect couplings, that is specially made for use in the chemical industry. The external cam curve is ergonomically designed and allows coupling against pressure in the tank unit. Rotating the coupling 120° clockwise opens the valves where the high engagement between hose and tank unit ensures a strong connection.

If the coupling halves are disconnected, their inner valves close the line securely. Once coupled, the valves open the flow cross-section with minimum pressure loss. No moving parts interfere with the flow, which makes cleaning easier. Turning the coupling counter clockwise, the valves close due to spring force. Continuing to rotate will separate the coupling halves without significant effort.

**The advantages:**

- Low connecting forces even against pressure
- Ergonomic handle (DN40 and bigger)
- Good transmission ratio in the cam curve
- Wide range of chemical resistance due to selection of high quality materials
- Minimized spillage during decoupling



## Technical data:

### Sizes:

- ✦ DN25, DN32, DN40, DN50 and DN80
- Others on request

### Materials:

- ✦ Stainless Steel 1.4404
- ✦ Handle PE (DN40 and bigger)
- Others on request

### Connections:

- ✦ BSP female thread
- ✦ Flange EN1092 (DIN) integrated
- Others on request

### Seals:

- ✦ O-Rings: FPM, NBR, EPDM, FFKM
- ✦ FDA on request
- ✦ Thread seal PTFE
- Others on request

### Accessories:

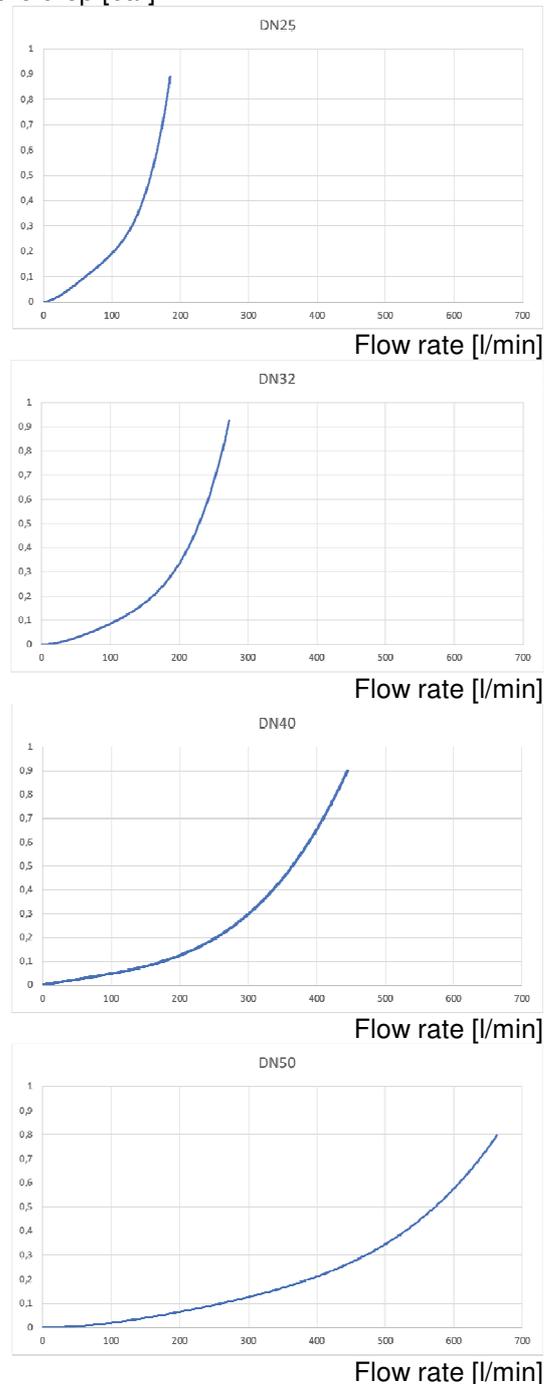
- ✦ Dustcap
- ✦ Dustplug
- Special options on request

### Approvals:

- ✦ Approved acc. to PED 2014/68/EU 4.3
- ✦ Approved acc. to ATEX 2014/34/EU Category 3G

## Pressure drop curves:

Pressure drop [bar]

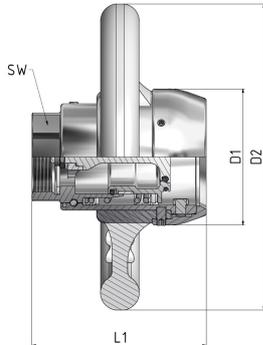


Test fluid: Water

Temperature: 20°C

## Dimensions:

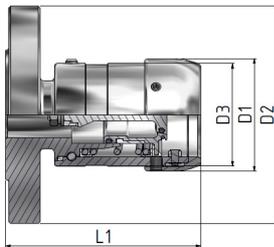
### Hose unit BSP female thread:



	Ø	D1	D2	L1	SW	Weight	Art.-No.
"	DN	mm	mm	mm		kg	
1	25	59,5	54,5*	90	38	0,82	SS103A4401A
1 ¼	32	76	66*	105	48	1,35	SS105A4401A
1 ½	40	89	200*	113	56	2,61	SS207A4401A
2	50	106	220*	126	68	2,80	SS210A4401A
3	80						SS414A4401A

\*DN25 and DN32 with knurled sleeve, DN40 and DN50 with handwheel

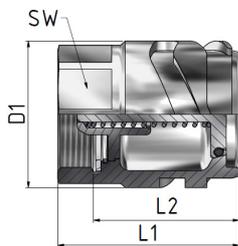
### Hose unit flange EN1092 PN10/16:



	Ø	D1	D2	D3	L1	Weight	Art.-No.
"	DN	mm	mm	mm	mm	kg	
1	25	59,5	115	54,5*	103	2,07	SS123A4401
1 ¼	32	76	140	66*	115	3,14	SS125A4401
1 ½	40	89	150	200*	134	4,74	SS227A4401
2	50	106	165	220*	140	5,29	SS230A4401

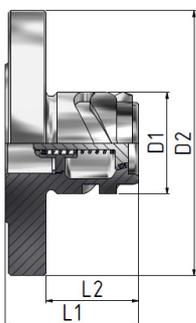
\*DN25 and DN32 with knurled sleeve, DN40 and DN50 with handwheel

### Tank unit BSP female thread:



	Ø	D1	L1	L2	SW	Weight	Art.-No.
"	DN	mm	mm	mm		kg	
1	25	44	53	42	38	0,29	TS103A4401A
1 ¼	32	54	65	54	48	0,51	TS105A4401A
1 ½	40	62,5	76	61	56	0,77	TS207A4401A
2	50	80	84	66	68	1,20	TS210A4401A
3	80						TS414A4401A

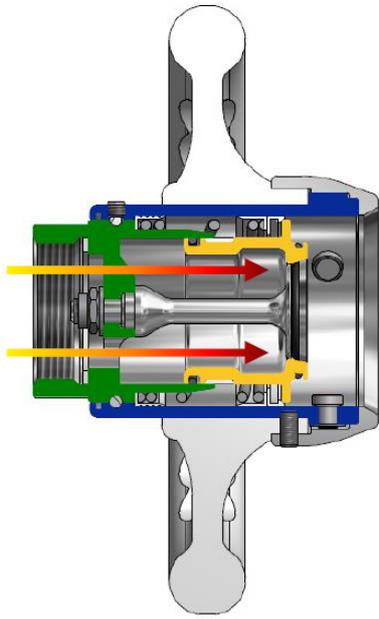
### Tank unit flange EN1092 PN10/16:



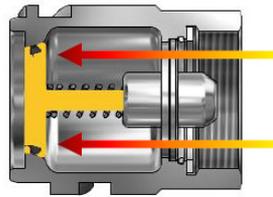
	Ø	D1	D2	L1	L2	Weight	Art.-No.
"	DN	mm	mm	mm	mm	kg	
1	25	44	115	58	40	1,50	TS123A4401
1 ¼	32	54	140	70	52	2,25	TS125A4401
1 ½	40	62,5	150	72	54	2,68	TS227A4401
2	50	80	165	80	62	3,48	TS230A4401

Standard sealing material FPM, others on request.

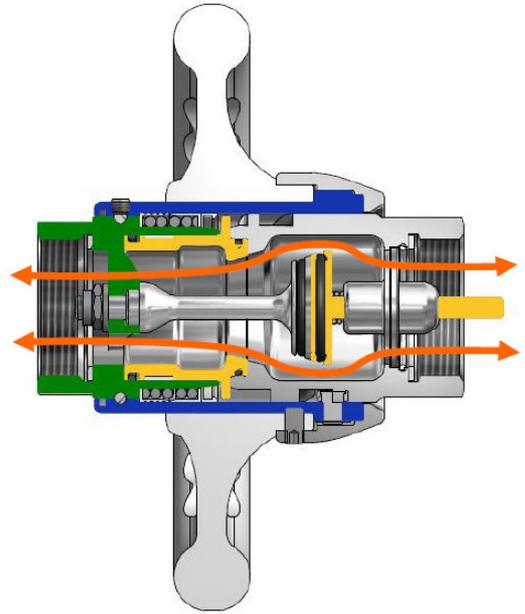
## How it works



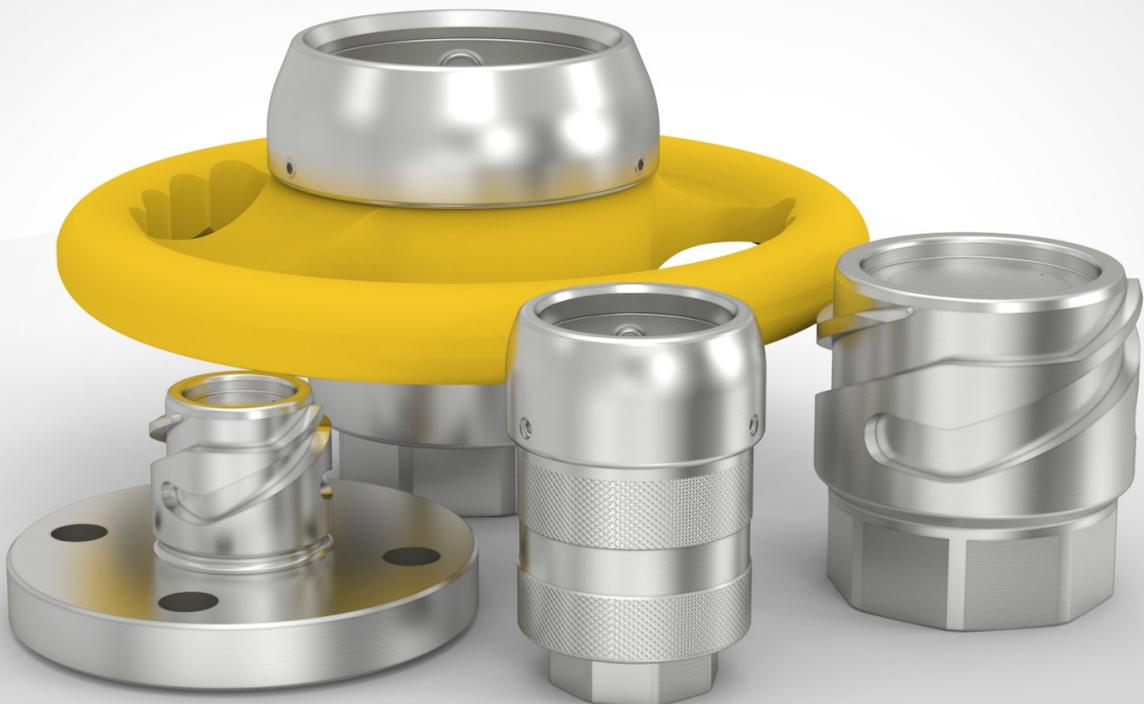
DEC Hose unit  
disconnected + closed



DEC Tank unit  
disconnected + closed



DEC HU + TU  
connected + open





MannTek is the world market leader in spill-free coupling technology, with more than 20 years of experience from demanding applications. We design and manufacture specialized equipment for safe and environmentally friendly handling of aggressive fluids under harsh climatic conditions, servicing demanding clients all over the world. Our dedication to constant development and improvement makes our couplings the logical choice wherever quality and safety matter.

[manntek.se](http://manntek.se)



# MannTek

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## Company Approvals



## ClassNK



Mann Teknik AB  
 is a certified  
 ISO 9001-company