

FD72/FD76 Series

Connect Under Pressure — Farm ISO 5675 Interchange

Fluid transfer & Hydraulic application



Danfoss Hansen FD72 Series coupling incorporates special valving allowing connection to a FD76 Series male half under pressure. The maximum operating pressure is 3,000 psi. Contains an over travel, selfsealing poppet valve construction for connecting to a pressurized male tip. Applications require that the tractor control valve be actuated to open the flow path and to equalize the pressure.

Product Features

- Push-to-connect for one-hand operation when sleeve is mounted
- Interchanges with ISO 5675 plug/male tips
- Retaining ring groove on socket/female half for bulkhead and breakaway frame mounting
- Standard seal material: Buna-N
- Standard body material: High resistance carbon steel with zinc trivalent plating

Applications & Markets

- Hydraulic fluid transfer
- Agricultural equipment

Physical Characteristics

Body Size (in)	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only (in./Hg)	Rated Flow		Air Inclusion cc. max.	Fluid Loss cc.max.
	(bar)	(psi)	(bar)	(psi)		(lpm)	(gpm)		
5/8	207	3,000	827	12,000	28	61	16	2.8	2.8

Dimensions (Female NPT, Valved)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions								
							A	B	C	D	E	Hex			
FD76-1002-08-10	Plug/Male	5/8	1/2	1/2-14	Female Pipe	1	52.1 (2.05)	—	—	—	—	—	—	—	26.9 (1.06)
FD72-1001-08-10	Socket/Female	5/8	1/2	1/2-14	Female Pipe	2	80.5 (3.17)	38.6 (1.52)	38.1 (1.50)	35.8 (1.41)	5.1 (.20)	—	—	25.4 (1.00)	
FD76-1010-08-10	Plug/Male	5/8	1/2	3/4-16	Female SAE O-Ring	3	52.1 (2.05)	—	—	—	—	—	—	27.0 (1.06)	

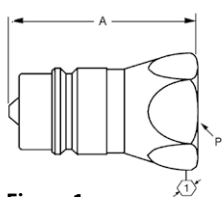


Figure 1

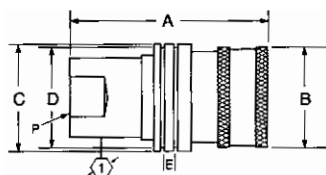


Figure 2

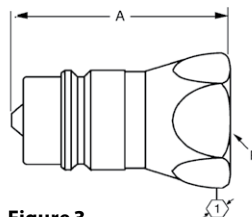


Figure 3

Dust Cap

Part Number Buna-N	Body Size
5657-10	5/8



Dust Cap

Dust Plug

Part Number Buna-N	Body Size
5659-10	5/8



Dust Plug

Break Away Frame

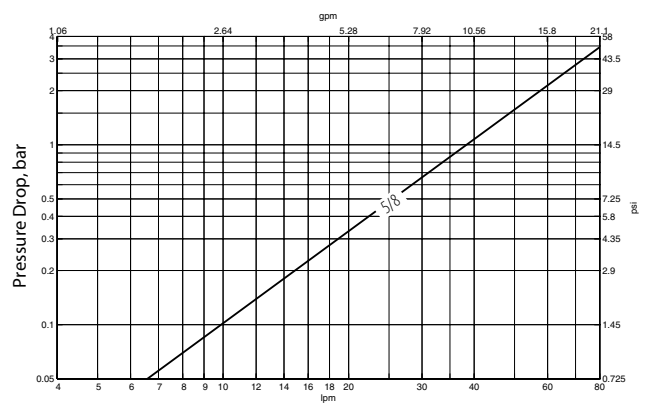
Part Number Buna-N	Body Size
5603	5/8



Break Away Frame

Flow Data

Pressure Drop Versus Flow Graph



Gallons Per Minute Flow
Test Fluid: MIL-H-5606 Oil at 100°F