# FD48 Series Parker Bruning SM-250 Interchange



Eaton's FD48 Series coupling is poppet style quick disconnect coupling designed to interchange with Parker Bruning SM-250 couplings where excellent high and low pressure sealing is required. The FD48 operates with pressures up to 3,000 psi.

### **Product Features**

- Self-sealing poppet valves provide excellent high and low pressure sealing
- PUSH-PULL<sup>™</sup> ball latch design allows quick and easy connection and disconnection of fluid lines
- Heat-treated and plated steel for wear and corrosion resistance
- Standard seal material: Buna-N
- Standard seal material: High resistance carbon steel with zinc trivalent plating

### Physical Characteristics

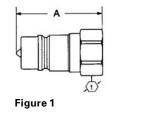
Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only	Rated Flow	I	Air Inclusion	Fluid Loss	
(in)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc.max	
1/4	210	3.000	840	12.000	28	11	3	.50	1.10	

Applications & Markets
Hvdraulic and fluid

• Agricultural equipment

transfer

Dimensions (Female NPT, Valved)													
Part Number Buna-N	Coupling Type			Туре	Fig.	Dimensions A		В		Hex ①			
							mm	(in)	mm	(in)	mm	(in)	
FD48-1002-04-04	Plug/Male	1/4	1/4	1/4-18	Female NPT	1	36.8	(1.45)	-	-	19.0	(.75)	
FD48-1001-04-04	Socket/Female	1/4	1/4	1/4-18	Female NPT	2	51.1	(2.01)	26.9	(1.06)	20.6	(.81)	



**Dust Cap/Plug** 

Part Number (Buna-N)

FD48-1042-04\*

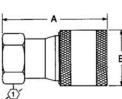
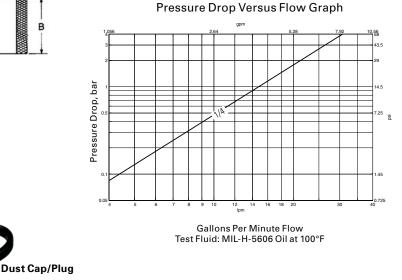


Figure 2

### Flow Data



Body Size

1/4

145

# FD72/FD76 Series Connect Under Pressure — Farm ISO 5675 Interchange

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC



Eaton's 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, self-sealing 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 onehand 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

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• Standard body material: High resistance carbon steel with zinc trivalent plating

### **Applications & Markets**

- Hydraulic fluid transfer
- Agricultural equipment

Hex ①

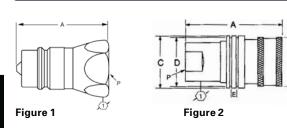
**Physical Characteristics** 

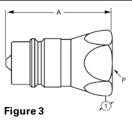
Body Size		Max. Operating Pressure		Burst Pressure ected	Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss	
(in)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc.max.	
5/8	207	3,000	827	12,000	28	61	16	2.8	2.8	

#### Dimensions (Female NPT, Valved) Part Number Coupling Body Port Buna-N Type Size Size Thread Type

	/1				<i>.</i> .	•												
							mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
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-F	Ring 3	52.1	(2.05)	_	_	_	_	_	_	_	_	27.0	(1.06)

Fig A





Dimensions

#### Flow Data

