

FD49 Series

NFPA Standard T3.20.15 HTMA Interchange



Eaton's FD49 Series meets NFPA standard T3.20.15 and was developed in conjunction with HTMA (Hydraulic Tool Manufacturer's Association). Eaton's Twin-Guard™ sealing system prevents weepage at low pressures and allows connection and disconnection against pressure up to 500 psi.

Product Features

- Dual flush face valving for minimal fluid loss and air inclusion
- Tubular valve and sleeve construction for high fluid flow with low pressure drop
- Push-to-connect latching for one hand operation
- Standard seal material: Teflon channel seal and Buna-N O-Ring backup
- Standard body 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		Air Inclusion	Fluid Loss
(in)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc.max.
3/8	207	3,000	621	9,000	28	38	10	.01	.02



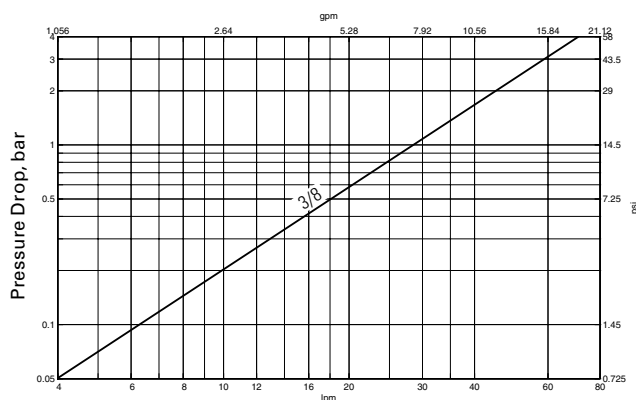
Eaton's Twin-Guard™ seal system consists of channel and Buna-N O-Ring seals. The channel seal prevents blowout during connection and disconnection under pressure to 500 psi. The Buna-N O-Ring seal is a secondary seal eliminating fluid weepage.

Applications & Markets

- Hydraulic tool (HTMA interchange)
- Hydraulic and fluid transfer

Flow Data

Pressure Drop Versus Flow Graph



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

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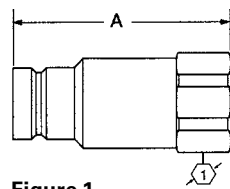


Figure 1

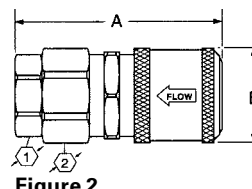


Figure 2

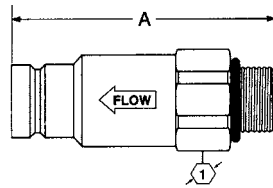


Figure 3

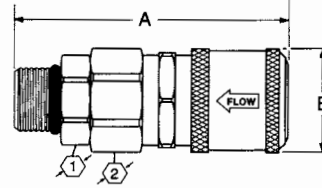


Figure 4

Dimensions (Female NPT, Valved)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex ①	Hex ②
							A	B		
							mm (in)	mm (in)	mm (in)	mm (in)
FD49-1002-06-06	Plug/Male	3/8	3/8	3/8-18	Female NPT	1	66.5 (2.62)	- -	25.4 (1.00)	- -
FD49-1001-06-06	Socket/Female	3/8	3/8	3/8-18	Female NPT	2	69.6 (2.74)	30.5 (1.20)	25.4 (1.00)	26.9 (1.06)
FD49-1002-08-06	Plug/Male	3/8	1/2	1/2-14	Female NPT	1	69.9 (2.75)	- -	26.9 (1.06)	- -
FD49-1001-08-06	Socket/Female	3/8	1/2	1/2-14	Female NPT	2	72.4 (2.85)	30.5 (1.20)	- -	26.9 (1.06)

Dimensions (Female SAE O-Ring, Valved)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex ①	Hex ②
							A	B		
							mm (in)	mm (in)	mm (in)	mm (in)
FD49-1004-08-06	Plug/Male	3/8	3/4	3/4-16	Female SAE O-Ring	1	69.9 (2.75)	- -	26.9 (1.06)	- -
FD49-1005-08-06	Socket/Female	3/8	3/4	3/4-16	Female SAE O-Ring	2	71.6 (2.82)	30.5 (1.20)	- -	26.9 (1.06)

Dimensions (Male SAE O-Ring, Valved)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex ①	Hex ②
							A	B		
							mm (in)	mm (in)	mm (in)	mm (in)
FD49-1057-06-06	Plug/Male	3/8	9/16	9/16-18	Male SAE O-Ring	3	75.9 (2.99)	- -	25.4 (1.00)	- -
FD49-1014-06-06	Socket/Female	3/8	9/16	9/16-18	Male SAE O-Ring	4	81.8 (3.22)	30.5 (1.20)	25.4 (1.00)	26.9 (1.06)
FD49-1057-08-06	Plug/Male	3/8	3/4	3/4-16	Male SAE O-Ring	3	75.9 (2.99)	- -	25.4 (1.00)	- -
FD49-1014-08-06	Socket/Female	3/8	3/4	3/4-16	Male SAE O-Ring	4	83.3 (3.28)	30.5 (1.20)	25.4 (1.00)	26.9 (1.06)

Dust Cap/Plug, Standard Coupling

Part Number (Buna-N)	Body Size
FD49-1042-06	3/8

Note: Fits male and female halves.



FLUID TRANSFER
AND HYDRAULIC

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

AGRICULTURE

REFRIGERANT