

# FD40 Series

MIL-C-4109 Interchange



The FD40 Series offers a one-hand push-to-connect latch ideal for compressed air service, utilizing a ball latching mechanism. The female half features self-sealing poppet valves, preventing air loss while disconnected. The male half uses a straight through non-valved design.

## Product Features

- Automatic sleeve for one-hand push-to-connect operation with pin latching mechanism
- Protective sleeve lock prevents accidental disconnection
- Meet dimensional requirements of MIL-C-4109 for industrial interchangeability
- Swivels 360°, eliminating hose kinking
- Standard seal material – Buna-N
- Standard body material (Male) – High resistance carbon steel with zinc trivalent chromate plating
- Standard body material (Female) – Brass

## Physical Characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure Female Half Only		Connected		Vacuum Connected Only
	bar	(psi)	bar	(psi)	bar	(psi)	(in./Hg)
1/4	21	(300)	210	(3,000)	560	(8,000)	28
3/8	21	(300)	210	(3,000)	560	(8,000)	28
1/2	21	(300)	210	(3,000)	560	(8,000)	28



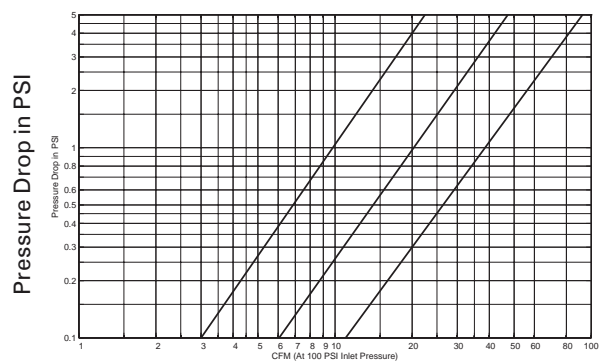
## Applications

- Compressed air
- Pneumatic tools
- MIL-C-4109 Interchange



## Flow Data

Pressure Drop Versus Flow Graph



Cubic Feet Per Minute Flow  
Test Fluid: Air at 100 PSI Inlet Pressure

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NFPA standard T3.20.15  
HTMA Interchange

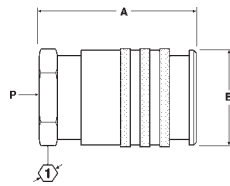


Figure 1

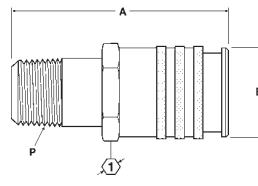


Figure 2

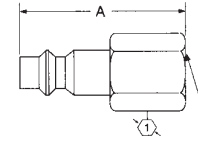


Figure 3

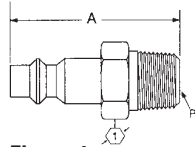


Figure 4

## Dimensions — Female Pipe

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
							mm	(in)	mm	(in)	mm	(in)
FD40-1013-02-04	Male	1/4	1/8	1/8-27	Female NPT	3	30.7	(1.21)	-	-	14.2	(.56)
FD40-1054-04-04	Female	1/4	1/4	1/4-18	Female NPT	1	58.6	(2.11)	30.2	(1.19)	17.5	(.69)
FD40-1013-04-04	Male	1/4	1/4	1/4-18	Female NPT	3	41.1	(1.62)	-	-	15.7	(.62)
FD40-1054-06-04	Female	1/4	3/8	3/8-18	Female NPT	1	58.6	(2.11)	30.2	(1.19)	19.1	(.75)
FD40-1013-06-04	Male	1/4	3/8	3/8-18	Female NPT	3	45.7	(1.80)	-	-	22.4	(.88)
FD40-1054-04-06	Female	3/8	1/4	1/4-18	Female NPT	1	53.3	(2.10)	35.1	(1.38)	22.4	(.88)
FD40-1054-06-06	Female	3/8	3/8	3/8-18	Female NPT	1	59.7	(2.35)	35.1	(1.38)	22.4	(.88)
FD40-1013-06-06	Male	3/8	3/8	3/8-18	Female NPT	3	48.3	(1.90)	-	-	22.4	(.88)
FD40-1054-08-08	Female	1/2	1/2	1/2-14	Female NPT	1	78.0	(3.60)	43.4	(1.71)	25.4	(1.00)
FD40-1013-08-08	Male	1/2	1/2	1/2-14	Female NPT	3	61.0	(2.40)	-	-	28.4	(1.12)

## Dimensions — Male Pipe

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
							mm	(in)	mm	(in)	mm	(in)
FD40-1055-04-04	Female	1/4	1/4	1/4-18	Male NPT	2	55.6	(2.19)	30.2	(1.19)	17.5	(0.69)
FD40-1014-04-04	Male	1/4	1/4	1/4-18	Male NPT	4	42.9	(1.69)	-	-	14.2	(0.56)
FD40-1055-06-04	Female	1/4	3/8	3/8-18	Male NPT	2	54.6	(2.15)	30.2	(1.19)	17.5	(0.69)
FD40-1014-06-04	Male	1/4	3/8	3/8-18	Male NPT	4	44.5	(1.75)	-	-	17.5	(0.69)
FD40-1014-02-04	Male	1/4	1/8	1/8-27	Male NPT	4	38.1	(1.50)	-	-	12.7	(0.50)
FD40-1055-06-06	Female	3/8	3/8	3/8-18	Male NPT	2	59.7	(2.35)	35.1	(1.38)	22.4	(0.88)
FD40-1014-06-06	Male	3/8	3/8	3/8-18	Male NPT	4	47.8	(1.88)	-	-	17.5	(0.69)
FD40-1014-04-06	Male	3/8	1/4	1/4-18	Male NPT	4	47.8	(1.88)	-	-	15.7	(0.62)
FD40-1014-08-06	Male	3/8	1/2	1/2-14	Male NPT	4	54.1	(2.13)	-	-	22.4	(0.88)
FD40-1055-08-08	Female	1/2	1/2	1/2-14	Male NPT	2	75.5	(2.97)	38.1	(1.50)	25.4	(1.00)
FD40-1014-08-08	Male	1/2	1/2	1/2-14	Male NPT	4	62.0	(2.44)	-	-	22.4	(0.88)
FD40-1014-06-08	Male	1/2	3/8	3/8-18	Male NPT	4	55.4	(2.18)	-	-	17.5	(0.69)



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