

5100 Series

Thread to Connect



The 5100 Series brass coupling with steel tubular valve offers minimum air inclusion and fluid loss. Thread together latch provides connect under pressure capability and vibration resistance. The 5100 Series is not rated for continuous hydraulic impulse applications. For hydraulic impulse applications, refer to the FD86 and FD96 Series thread to connect product lines.

Product Features

- Tubular valve construction for virtually no fluid loss during disconnection, reduces environmental and worker safety hazards
- Low air inclusion during connection maintains system performance
- Available with wing or hex nut configurations
- Connect against pressure capability allows connecting of halves even when pressurized up to 500 psi
- Steel flange available for accessible bulkhead mounting
- Standard seal material – Buna-N
- Standard body material – Brass body with high resistance carbon steel with zinc trivalent plated valving components, hex and wing nuts

Physical Characteristics

Body Dash Size	Body Interface Size	Max. Operating Pressure Connected		Max. Operating Pressure Disconnected								Fluid Loss
				Male Half S2 and S4		Female Half S5		Vacuum	Rated Flow		Air Inclusion	
		bar	(psi)	bar	(psi)	bar	(psi)		(in./Hg)	L/min		
1/4	1/4	207	(3,000)	207	(3,000)	207	(3,000)	28	15	(4)	.03	.01
3/8	1/2	207	(3,000)	207	(3,000)	207	(3,000)	28	26	(7)	.05	.06
1/2	1/2	207	(3,000)	207	(3,000)	207	(3,000)	28	26	(7)	.05	.10
5/8	3/4	207	(3,000)	207	(3,000)	207	(3,000)	28	68	(18)	.14	.10
3/4	3/4	207	(3,000)	207	(3,000)	207	(3,000)	28	68	(18)	.34	.26
1	1	207	(3,000)	207	(3,000)	207	(3,000)	28	151	(40)	.50	.35
1 1/4	1 1/4	190	(2,750)	172	(2,500)	190	(2,750)	28	284	(75)	.68	.70
1 1/2	1 1/2	172	(2,500)	172	(2,500)	138	(2,000)	28	379	(100)	.60	.94



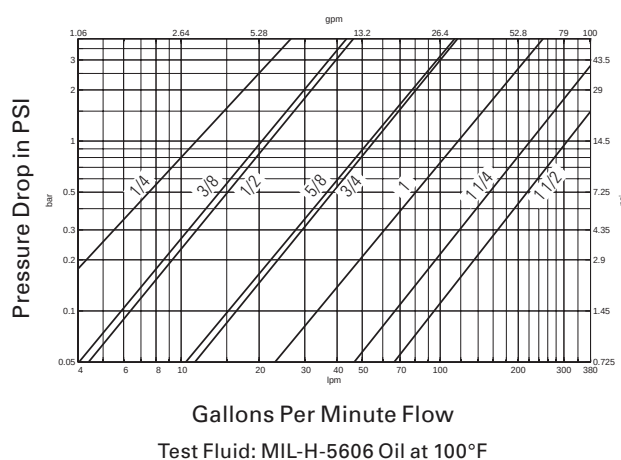
Applications

- Hydraulics and fluid transfer
- On-highway hydraulic wet lines
- Dump and refuse vehicles
- Bulk liquid transfer



Flow Data

Pressure Drop Versus Flow Graph



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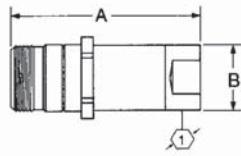


Figure 1

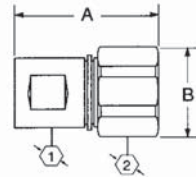


Figure 2

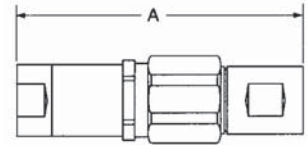


Figure 3

Dimensions (Female NPT, Valved without Flange)

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		B		Hex ①		Hex ②	
							A				mm	(in)	mm	(in)
5100-S2-4B	Male	1/4	1/8	1/8-27	Female NPT	1	47.8	(1.88)	22.9	(.90)	17.5	(.69)	-	-
5110-S5-4B	Female	1/4	1/8	1/8-27	Female NPT	2	53.3	(2.10)	33.5	(1.32)	14.2	(.56)	30.2	(1.19)
5111-4B	Complete	1/4	1/8	1/8-27	Female NPT	3	81.3	(3.20)	-	-	-	-	-	-
5100-S2-6B	Male	3/8	1/4	1/4-18	Female NPT	1	65.5	(2.58)	26.7	1.05)	23.9	(.94)	-	-
5110-S5-6B	Female	3/8	1/4	1/4-18	Female NPT	2	61.0	(2.40)	38.9	(1.53)	19.3	(.76)	35.1	(1.38)
5111-6B	Complete	3/8	1/4	1/4-18	Female NPT	3	104.4	(4.11)	-	-	-	-	-	-
5100-S2-8B	Male	1/2	3/8	3/8-18	Female NPT	1	65.5	(2.58)	26.7	(1.05)	23.9	(.94)	-	-
5110-S5-8B	Female	1/2	3/8	3/8-18	Female NPT	2	61.0	(2.40)	38.9	(1.53)	19.3	(.76)	35.1	(1.38)
5111-8B	Complete	1/2	3/8	3/8-18	Female NPT	3	104.4	(4.11)	-	-	-	-	-	-
5100-S2-10B	Male	5/8	1/2	1/2-14	Female NPT	1	79.0	(3.11)	35.1	(1.38)	30.2	(1.19)	-	-
5110-S5-10B	Female	5/8	1/2	1/2-14	Female NPT	2	78.0	(3.07)	50.3	(1.98)	29.5	(1.16)	44.5	(1.75)
5111-10B	Complete	5/8	1/2	1/2-14	Female NPT	3	132.3	(5.21)	-	-	-	-	-	-
5100-S2-12B	Male	3/4	3/4	3/4-14	Female NPT	1	79.0	(3.11)	35.1	(1.38)	30.2	(1.19)	-	-
5110-S5-12B	Female	3/4	3/4	3/4-14	Female NPT	2	78.0	(3.07)	50.3	(1.98)	29.5	(1.16)	44.5	(1.75)
5111-12B	Complete	3/4	3/4	3/4-14	Female NPT	3	132.3	(5.21)	-	-	-	-	-	-
5100-S2-16B	Male	1	1	1-11 1/2	Female NPT	1	90.2	(3.55)	44.2	(1.74)	39.6	(1.56)		
5110-S5-16B	Female	1	1	1-11 1/2	Female NPT	2	93.5	(3.68)	61.2	(2.41)	36.6	(1.44)	53.8	(2.12)
5111-16B	Complete	1	1	1-11 1/2	Female NPT	3	151.9	(5.98)	-	-	-	-	-	-
5100-S2-20B	Male	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	1	94.2	(3.71)	52.8	(2.08)	47.8	(1.88)	-	-
5110-S5-20B	Female	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	2	101.6	(4.00)	58.7	(2.31)	45.2	(1.78)	63.5	(2.50)
5111-20B	Complete	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	3	160.3	(6.31)	-	-	-	-	-	-
5100-S2-24B	Male	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	1	104.6	(4.12)	62.5	(2.46)	55.6	(2.19)	55.6	(2.19)
5110-S5-24B	Female	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	2	104.1	(4.10)	78.7	(3.10)	50.8	(2.00)	-	-
5111-24B	Complete	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	3	165.6	(6.52)	-	-	-	-	-	-

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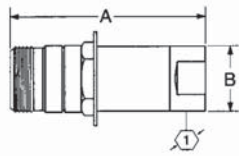


Figure 4

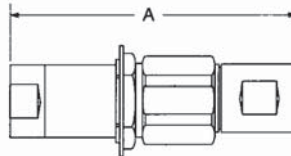


Figure 5

Dimensions (Female NPT, Valved WITH Flange)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
							mm	(in)	mm	(in)	mm	(in)
5100-S4-4B	Male	1/4	1/8	1/8-27	Female NPT	4	47.8	(1.88)	22.4	(.88)	23.3	(.96)
5110-4B	Complete	1/4	1/8	1/8-27	Female NPT	5	81.3	(3.20)	-	-	-	-
5100-S4-6B	Male	3/8	1/4	1/4-18	Female NPT	4	65.5	(2.58)	26.7	(1.05)	28.5	(1.12)
5110-6B	Complete	3/8	1/4	1/4-18	Female NPT	5	104.4	(4.11)	-	-	-	-
5100-S4-8B	Male	1/2	3/8	3/8-18	Female NPT	4	65.5	(2.58)	26.7	(1.05)	28.5	(1.12)
5110-8B	Complete	1/2	3/8	3/8-18	Female NPT	5	104.4	(4.11)	-	-	-	-
5100-S4-10B	Male	5/8	1/2	1/2-14	Female NPT	4	79.0	(3.11)	35.2	(1.35)	41.2	(1.62)
5110-10B	Complete	5/8	1/2	1/2-14	Female NPT	5	132.3	(5.21)	-	-	-	-
5100-S4-12B	Male	3/4	3/4	3/4-14	Female NPT	4	79.0	(3.11)	35.2	(1.35)	41.2	(1.62)
5110-12B	Complete	3/4	3/4	3/4-14	Female NPT	5	132.3	(5.21)	-	-	-	-
5100-S4-16B	Male	1	1	1-11 1/2	Female NPT	4	90.2	(3.55)	44.2	(1.74)	47.8	(1.88)
5110-16B	Complete	1	1	1-11 1/2	Female NPT	5	151.9	(5.98)	-	-	-	-
5100-S4-20B	Male	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	4	94.2	(3.71)	52.8	(2.08)	53.9	(2.12)
5110-20B	Complete	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	5	160.3	(6.31)	-	-	-	-
5100-S4-24B	Male	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	4	104.6	(4.12)	62.5	(2.46)	63.5	(2.50)
5110-24B	Complete	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	5	165.6	(6.52)	-	-	-	-

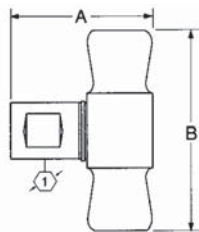


Figure 6

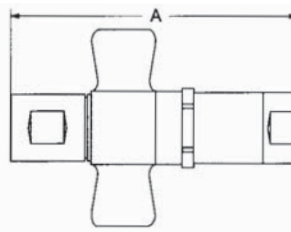


Figure 7

Dimensions (Female NPT, Valved WITH Wing Nut Less Flange)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
							mm	(in)	mm	(in)	mm	(in)
5100-S5-4B	Female	1/4	1/8	1/8-27	Female NPT	6	53.3	(2.10)	77.0	(3.03)	14.2	(.56)
5101-4B	Complete	1/4	1/8	1/8-27	Female NPT	7	81.3	(3.20)	-	-	-	-
5100-S5-6B	Female	3/8	1/4	1/4-18	Female NPT	6	61.0	(2.40)	87.4	(3.44)	19.3	(.76)
5101-6B	Complete	3/8	1/4	1/4-18	Female NPT	7	104.4	(4.11)	-	-	-	-
5100-S5-8B	Female	1/2	3/8	3/8-18	Female NPT	6	61.0	(2.40)	87.4	(3.44)	19.3	(.76)
5101-8B	Complete	1/2	3/8	3/8-18	Female NPT	7	104.4	(4.11)	-	-	-	-
5100-S5-10B	Female	5/8	1/2	1/2-14	Female NPT	6	78.0	(3.07)	104.9	(4.13)	29.5	(1.16)
5101-10B	Complete	5/8	1/2	1/2-14	Female NPT	7	132.3	(5.21)	-	-	-	-
5100-S5-12B	Female	3/4	3/4	3/4-14	Female NPT	6	78.0	(3.07)	104.9	(4.13)	29.5	(1.16)
5101-12B	Complete	3/4	3/4	3/4-14	Female NPT	7	132.3	(5.21)	-	-	-	-
5100-S5-16B	Female	1	1	1-11 1/2	Female NPT	6	93.5	(3.68)	111.3	(4.38)	36.6	(1.44)
5101-16B	Complete	1	1	1-11 1/2	Female NPT	7	151.9	(5.98)	-	-	-	-
5100-S5-20B	Female	1 1/4	1 1/4	1 1/4 - 11 1/2	Female Pipe	6	101.6	(4.00)	133.9	(5.27)	45.2	(1.78)
5101-20B	Complete	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	7	160.3	(6.31)	-	-	-	-
5100-S5-24B	Female	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	6	104.1	(4.10)	136.7	(5.38)	50.8	(2.00)
5101-24B	Complete	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	7	165.6	(6.52)	-	-	-	-

Note: Uses the 5100-52 series male half shown on page 27.

5100 Series

Thread to Connect

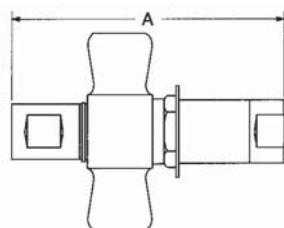


Figure 8

Dimensions (Female NPT, Valved WITH Wing Nut and Flange)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A	
							mm	(in)
5100-4B	Complete	1/4	1/8	1/8-27	Female NPT	8	81.3	(3.24)
5100-6B	Complete	3/8	1/4	1/4-18	Female NPT	8	104.4	(4.11)
5100-8B	Complete	1/2	3/8	3/8-18	Female NPT	8	104.4	(4.11)
5100-10B	Complete	5/8	1/2	1/2-14	Female NPT	8	132.3	(5.21)
5100-12B	Complete	3/4	3/4	3/4-14	Female NPT	8	132.3	(5.21)
5100-16B	Complete	1	1	1-11 1/2	Female NPT	8	151.9	(5.89)
5100-20B	Complete	1 1/4	1 1/4	1 1/4 - 11 1/2	Female NPT	8	160.3	(6.33)
5100-24B	Complete	1 1/2	1 1/2	1 1/2 - 11 1/2	Female NPT	8	165.6	(6.54)

Note: Uses the 5100-52 series male half shown on page 27.

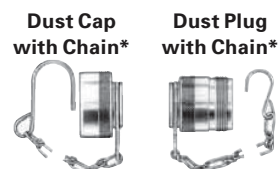
Repair Kits

Part Number Buna-N	Body Size
FF098-04	1/4
FF098-08	3/8 & 1/2
FF098-12	5/8 & 3/4
FF082-16	1
FF082-20	1 1/4
FF082-24	1 1/2

Note: Each kit will repair both male and female halves.

Dust Caps and Dust Plugs

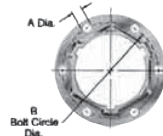
Part Number Dust Cap with Chain	Dust Plug with Chain	Body Size
5100-S7-5	5100-S9-5	1/4
5100-S7-8	5100-S9-8	3/8 & 1/2
5100-S7-12	5100-S9-12	5/8 & 3/4
5100-S7-16	5100-S9-16	1
5100-S7-20	5100-S9-20	1 1/4
5100-S7-24	5100-S9-24	1 1/2



6-Bolt Flange Assembly

Part Number 6-Bolt Flange Assembly	Body Size	Dimensions A		B	
		mm	(in)	mm	(in)
150-22-5	1/4	5.11	(.201)	33.6	(1.44)
150-22-8	3/8 & 1/2	5.11	(.201)	42.9	(1.69)
150-22-12	5/8 & 3/4	5.11	(.201)	53.8	(2.12)
150-22-16	1	5.11	(.201)	60.5	(2.38)
150-22-20	1 1/4	5.11	(.201)	66.5	(2.62)
5100-22-245	1 1/2	5.11	(.201)	82.6	(3.25)

6 Bolt Flange** Assembly



*To order caps and plugs without chain, order cap by part number 5100-32-(size) and plug by part number 5100-41-(size).

**6 Bolt Flange-holes equally spaced. (See "A" for bolt hole diameter, and "B" for bolt circle diameter).



联系方式

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EATON

Quick Disconnect Couplings E-MEQD-MC001-E2