

5400 Series

Low Air Inclusion Refrigerant



The 5400 Series low air inclusion product line is designed for air conditioning, refrigerant, gaseous and fluid transfer applications.

Product Features

- Brazed or threaded end connections for versatility of installation on tubing or hose
- Tubular valve construction for low fluid loss and air inclusion
- Thread together design allows connection and disconnection against pressure
- Lock washer and jam nut standard for optional bulkhead mounting
- Standard seal material – Neoprene
- Standard adapter material – Steel or Brass
- Standard body material – High resistance carbon steel with zinc trivalent plating

Physical Characteristics

Coupling Size	Max. Operating Pressure Connected		Min. Burst Pressure Connected		Max. Operating Pressure Disconnected				Vacuum Connected Only		Rated Flow	Air Inclusion	Fluid Loss
	bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)	(in./Hg)	L/min	(gpm)	cc. max.	cc.max.
-4	207	(3,000)	621	(9,000)	172	(2,500)	34	(500)	28	8	(2)	.10	.05
-8	121	(1,750)	359	(5,200)	121	(1,750)	28	(400)	28	53	(14)	.10	.10
-12	48	(700)	145	(2,100)	55	(800)	28	(400)	28	132	(35)	.30	.10
-16	48	(700)	145	(2,100)	48	(700)	21	(300)	28	284	(75)	.50	.20

REFRIGERANT



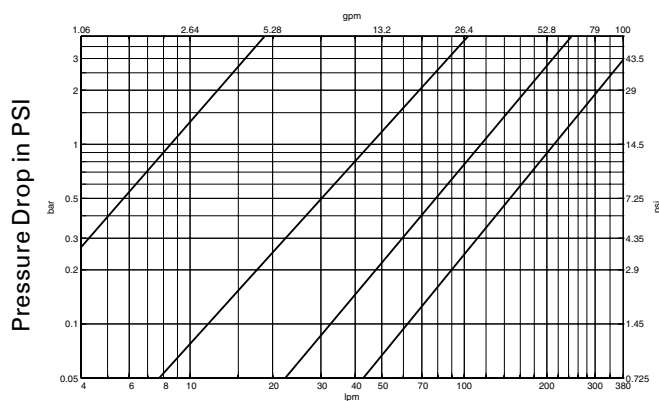
Applications

- Mobile air conditioning and refrigerant



Flow Data

Pressure Drop Versus Flow Graph



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

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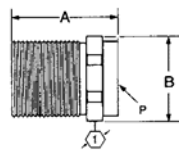


Figure 1

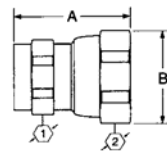


Figure 2

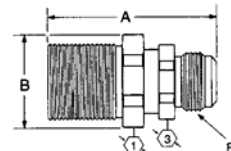


Figure 3

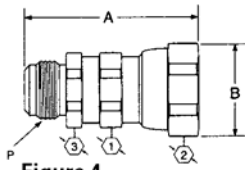


Figure 4

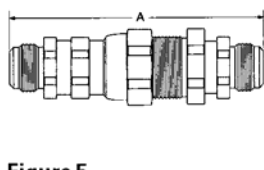


Figure 5

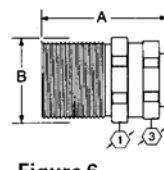


Figure 6

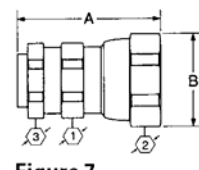


Figure 7

Dimensions – No Adapter

Part Number Neoprene	Coupling Type	Body Size	Type	Fig.	Dimensions A		B		Hex ①		Hex ②		Hex ③	
					mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
5400-S2-4	Male	1/4	No Adapter	1	27.4	(1.08)	21.1	(.83)	19.1	(.75)	-	-	-	-
5400-S5-4	Female	1/4	No Adapter	2	33.3	(1.31)	21.1	(.83)	16.0	(.63)	19.1	(.75)	-	-
5400-S2-8	Male	1/2	No Adapter	1	34.8	(1.37)	31.8	(1.25)	33.3	(1.31)	-	-	-	-
5400-S5-8	Female	1/2	No Adapter	2	41.4	(1.63)	33.3	(1.31)	25.4	(1.00)	30.2	(1.19)	-	-
5400-S2-12	Male	3/4	No Adapter	1	44.2	(1.74)	46.5	(1.83)	41.4	(1.63)	-	-	-	-
5400-S5-12	Female	3/4	No Adapter	2	54.6	(2.15)	45.7	(1.80)	35.1	(1.38)	41.4	(1.63)	-	-
5400-S2-16	Male	1	No Adapter	1	46.5	(1.83)	53.3	(2.10)	47.8	(1.88)	-	-	-	-
5400-S5-16	Female	1	No Adapter	2	60.2	(2.37)	56.9	(2.24)	44.5	(1.75)	50.8	(2.00)	-	-

Dimensions – SAE 37° (JIC)

Part Number Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①		Hex ②		Hex ③	
							mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
5410-S17-4-4*	Male	1/4	7/16	7/16-20	SAE 37° (JIC)	3	47.8	(1.88)	21.1	(.83)	19.1	(.75)	-	-	16.0	(.63)
5410-S14-4-4*	Female	1/4	7/16	7/16-20	SAE 37° (JIC)	4	49.0	(1.93)	21.1	(.83)	16.0	(.63)	19.1	(.75)	15.7	(.62)
5410-4-4*	Complete	1/4	7/16	7/16-20	SAE 37° (JIC)	5	89.9	(3.54)	-	-	-	-	-	-	-	-
5410-S17-6-4*	Male	1/4	9/16	9/16-18	SAE 37° (JIC)	3	48.0	(1.89)	21.1	(.83)	19.1	(.75)	-	-	16.0	(.63)
5410-S14-6-4*	Female	1/4	9/16	9/16-18	SAE 37° (JIC)	4	49.3	(1.94)	21.1	(.83)	16.0	(.63)	19.1	(.75)	15.7	(.62)
5410-6-4*	Complete	1/4	9/16	9/16-18	SAE 37° (JIC)	5	90.4	(3.56)	-	-	-	-	-	-	-	-
5410-S17-6-8*	Male	1/2	9/16	9/16-18	SAE 37° (JIC)	3	55.4	(2.18)	31.8	(1.25)	28.7	(1.13)	-	-	25.4	(1.00)
5410-S14-6-8*	Female	1/2	9/16	9/16-18	SAE 37° (JIC)	4	61.7	(2.43)	33.3	(1.31)	25.4	(1.00)	30.2	(1.19)	25.4	(1.00)
5410-6-8*	Complete	1/2	9/16	9/16-18	SAE 37° (JIC)	5	107.4	(4.23)	-	-	-	-	-	-	-	-
5410-S17-8-8*	Male	1/2	3/4	3/4-16	SAE 37° (JIC)	3	57.9	(2.28)	31.8	(1.25)	28.7	(1.13)	-	-	25.4	(1.00)
5410-S14-8-8*	Female	1/2	3/4	3/4-16	SAE 37° (JIC)	4	64.3	(2.53)	33.3	(1.31)	25.4	(1.00)	30.2	(1.19)	25.4	(1.00)
5410-8-8*	Complete	1/2	3/4	3/4-16	SAE 37° (JIC)	5	112.8	(4.44)	-	-	-	-	-	-	-	-
5410-S17-10-12*	Male	3/4	7/8	7/8-14	SAE 37° (JIC)	3	69.9	(2.75)	46.5	(1.83)	41.4	(1.63)	-	-	35.1	(1.38)
5410-S14-10-12*	Female	3/4	7/8	7/8-14	SAE 37° (JIC)	4	80.3	(3.16)	45.7	(1.80)	35.1	(1.38)	41.1	(1.62)	35.1	(1.38)
5410-10-12*	Complete	3/4	7/8	7/8-14	SAE 37° (JIC)	5	135.4	(5.33)	-	-	-	-	-	-	-	-
5410-S17-12-12*	Male	3/4	1 1/16	1 1/16-12	SAE 37° (JIC)	3	72.6	(2.86)	46.5	(1.83)	41.4	(1.63)	-	-	35.1	(1.38)
5410-S14-12-12*	Female	3/4	1 1/16	1 1/16-12	SAE 37° (JIC)	4	83.1	(3.27)	45.7	(1.80)	35.1	(1.38)	41.1	(1.62)	35.1	(1.38)
5410-12-12*	Complete	3/4	1 1/16	1 1/16-12	SAE 37° (JIC)	5	140.7	(5.54)	-	-	-	-	-	-	-	-
5410-S17-16-16*	Male	1	1 5/16	1 5/16-12	SAE 37° (JIC)	3	75.9	(2.99)	53.3	(2.10)	47.8	(1.88)	-	-	44.5	(1.75)
5410-S14-16-16*	Female	1	1 5/16	1 5/16-12	SAE 37° (JIC)	4	89.7	(3.53)	56.9	(2.24)	44.5	(1.75)	50.8	(2.00)	44.5	(1.75)
5410-16-16*	Complete	1	1 5/16	1 5/16-12	SAE 37° (JIC)	5	149.6	(5.89)	-	-	-	-	-	-	-	-

*Couplings must be ordered by components as shown on page 65.