

5600 Series

ISO 7241/1

Series A Interchange



The 5600 Series general purpose industrial interchange coupling features a PUSH-PULL™ latch and poppet valving in a low profile design. The 5600 Series features a rugged ball latch mechanism with self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

Product Features

- Meets dimensional requirements to ISO standard 7241/1 Series A
- PUSH-PULL™ ball latch design allows quick and easy connection and disconnection of fluid lines.
- Self-sealing poppet valve provides excellent high and low pressure sealing
- Streamlined valving provides minimum pressure drop
- Standard seal materials – Buna-N, EPR and Viton
- Standard body material – High resistance carbon steel with zinc trivalent plating (Brass poppet guide in -04 size)

Physical Characteristics

Body Size	Max. Operating Pressure		Min. Burst Pressure Connected		Vacuum Connected Only	Rated Flow		Air Inclusion	Fluid Loss
	bar	(psi)	bar	(psi)	(in./Hg)	L/min	(gpm)	cc. max.	cc.max.
1/4	350	(5,000)	1,050	(15,000)	28	4	(1)	0.50	0.50
3/8	280	(4,000)	840	(12,000)	28	23	(6)	1.5	1.3
5/8	280	(4,000)	840	(12,000)	28	45	(12)	2.8	2.8
3/4	280	(4,000)	840	(12,000)	28	106	(28)	10.0	8.2
1	280	(4,000)	840	(12,000)	28	189	(50)	14.2	14.2



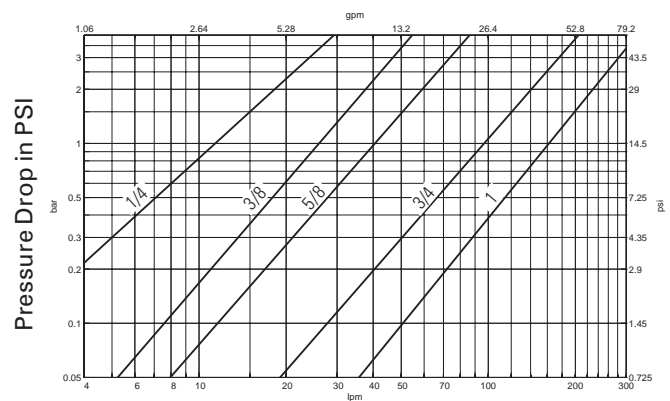
Applications

- Hydraulic fluid transfer
- Agricultural equipment
- Construction equipment
- Dump, snow plow and maintenance vehicles
- In-plant manufacturing



Flow Data

Pressure Drop Versus Flow Graph



Gallons Per Minute Flow

Test Fluid: MIL-H-5606 Oil at 100°F

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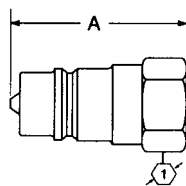


Figure 1

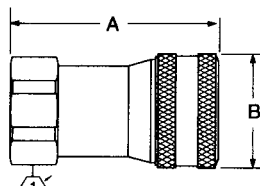


Figure 2

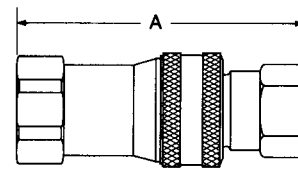


Figure 3

Dimensions (Female NPT, Valved)

Part Number	Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
										A		B		Hex ①	
										mm	(in)	mm	(in)	mm	(in)
5602-2-4S	FD56-1062-02-04	5644-2-4S	Male	1/4	1/8	1/8-27	Female NPT	1	1	31.5	(1.24)	-	-	14.2	(.56)
5601-2-4S	FD56-1064-02-04	5643-2-4S	Female	1/4	1/8	1/8-27	Female NPT	2	2	46	(1.81)	27.4	(1.08)	22.4	(.88)
5600-2-4S	FD56-1065-02-04	5642-2-4S	Complete	1/4	1/8	1/8-27	Female NPT	3	3	61.5	(2.42)	-	-	-	-
5602-4-4S	FD56-1062-04-04	5644-4-4S	Male	1/4	1/4	1/4-18	Female NPT	1	1	33.3	(1.31)	-	-	19.1	(.75)
5601-4-4S	FD56-1064-04-04	5643-4-4S	Female	1/4	1/4	1/4-18	Female NPT	2	2	46	(1.81)	27.4	(1.08)	22.4	(.88)
5600-4-4S	FD56-1065-04-04	5642-4-4S	Complete	1/4	1/4	1/4-18	Female NPT	3	3	63.2	(2.49)	-	-	-	-
5602-6-6S	FD56-1062-06-06	5644-6-6S	Male	3/8	3/8	3/8-18	Female NPT	1	1	37.3	(1.47)	-	-	22.4	(.88)
5601-6-6S	FD56-1064-06-06	5643-6-6S	Female	3/8	3/8	3/8-18	Female NPT	2	2	54.6	(2.15)	31.2	(1.23)	25.4	(1.00)
5600-6-6S	FD56-1065-06-06	5642-6-6S	Complete	3/8	3/8	3/8-18	Female NPT	3	3	71.1	(2.80)	-	-	-	-
5602-8-10S	FD56-1062-08-10	5644-8-10S	Male	5/8	1/2	1/2-14	Female NPT	1	1	51.3	(2.02)	-	-	26.9	(1.06)
5601-8-10S	FD56-1064-08-10	5643-8-10S	Female	5/8	1/2	1/2-14	Female NPT	2	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
5600-8-10S	FD56-1065-08-10	5642-8-10S	Complete	5/8	1/2	1/2-14	Female NPT	3	3	96	(3.78)	-	-	-	-
5602-12-10S	FD56-1062-12-10	5644-12-10S	Male	5/8	3/4	3/4-14	Female NPT	1	1	54.9	(2.16)	-	-	35.1	(1.38)
5601-12-10S	FD56-1064-12-10	5643-12-10S	Female	5/8	3/4	3/4-14	Female NPT	2	2	66.3	(2.61)	38.1	(1.50)	33.3	(1.31)
5600-12-10S	FD56-1065-12-10	5642-12-10S	Complete	5/8	3/4	3/4-14	Female NPT	3	3	103.1	(4.06)	-	-	-	-
5602-12-12S	FD56-1062-12-12	5644-12-12S	Male	3/4	3/4	3/4-14	Female NPT	1	1	64.8	(2.55)	-	-	35.1	(1.38)
5601-12-12S	FD56-1064-12-12	5643-12-12S	Female	3/4	3/4	3/4-14	Female NPT	2	2	82.6	(3.25)	46	(1.81)	38.1	(1.50)
5600-12-12S	FD56-1065-12-12	5642-12-12S	Complete	3/4	3/4	3/4-14	Female NPT	3	3	115.8	(4.56)	-	-	-	-
5602-16-16S	FD56-1062-16-16	5644-16-16S	Male	1	1	1-11 1/2	Female NPT	1	1	78.7	(3.10)	-	-	41.1	(1.62)
5601-16-16S	FD56-1064-16-16	5643-16-16S	Female	1	1	1-11 1/2	Female NPT	2	2	97	(3.82)	53.3	(2.10)	42.9	(1.69)
5600-16-16S	FD56-1065-16-16	5642-16-16S	Complete	1	1	1-11 1/2	Female NPT	3	3	123.4	(4.86)	-	-	-	-

Dimensions (Female NPT, Valved with Sleeve Lock)

Part Number	Buna-N	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions					
								A		B		Hex ①	
								mm	(in)	mm	(in)	mm	(in)
FD56-1239-08-10		Female	5/8	1/2	1/2-14	Female NPT	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
FD56-1239-12-12		Female	3/4	3/4	3/4-14	Female NPT	2	82.6	(3.25)	46.7	(1.84)	38.1	(1.50)
FD56-1239-16-16		Female	1	1	1-11 1/2	Female NPT	2	97.0	(3.82)	54.1	(2.13)	42.9	(1.69)

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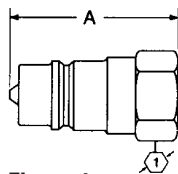


Figure 1

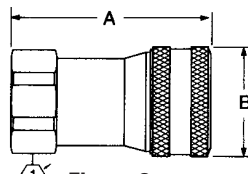


Figure 2

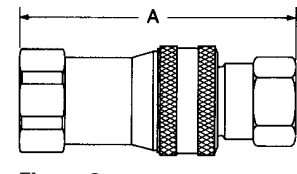


Figure 3

Dimensions (Female NPT, Non-Valved)

Part Number	Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		Dimensions B		Hex ①	
										mm	(in)	mm	(in)	mm	(in)
FD56-1037-04-04	FD56-1037-04-04	FD56-1037-04-04	FD56-1037-04-04	Male	1/4	1/4	1/4-18	Female NPT	1	31.5	(1.24)	-	-	19.1	(.75)
FD56-1225-04-04	FD56-1207-04-04	FD56-1204-04-04	FD56-1204-04-04	Female	1/4	1/4	1/4-18	Female NPT	2	46.0	(1.81)	27.4	(1.08)	22.4	(.88)
FD56-1226-04-04	FD56-1208-04-04	FD56-1205-04-04	FD56-1205-04-04	Complete	1/4	1/4	1/4-18	Female NPT	3	63.2	(2.49)	-	-	-	-
FD56-1037-06-06	FD56-1037-06-06	FD56-1037-06-06	FD56-1037-06-06	Male	3/8	3/8	3/8-18	Female NPT	1	35.6	(1.40)	-	-	22.4	(.88)
FD56-1225-06-06	FD56-1207-06-06	FD56-1204-06-06	FD56-1204-06-06	Female	3/8	3/8	3/8-18	Female NPT	2	54.6	(2.15)	31.2	(1.23)	25.4	(1.00)
FD56-1226-06-06	FD56-1208-06-06	FD56-1205-06-06	FD56-1205-06-06	Complete	3/8	3/8	3/8-18	Female NPT	3	71.1	(2.80)	-	-	-	-
FD56-1037-08-10	FD56-1037-08-10	FD56-1037-08-10	FD56-1037-08-10	Male	5/8	1/2	1/2-14	Female NPT	1	48	(1.89)	-	-	26.9	(1.06)
FD56-1225-08-10	FD56-1207-08-10	FD56-1204-08-10	FD56-1204-08-10	Female	5/8	1/2	1/2-14	Female NPT	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
FD56-1226-08-10	FD56-1208-08-10	FD56-1205-08-10	FD56-1205-08-10	Complete	5/8	1/2	1/2-14	Female NPT	3	96	(3.78)	-	-	-	-
FD56-1225-12-12	FD56-1207-12-12	FD56-1204-12-12	FD56-1204-12-12	Female	3/4	3/4	3/4-14	Female NPT	2	82.6	(3.25)	46.0	(1.81)	38.1	(1.50)
FD56-1226-12-12	FD56-1208-12-12	FD56-1205-12-12	FD56-1205-12-12	Complete	3/4	3/4	3/4-14	Female NPT	3	113.3	(4.46)	-	-	-	-
FD56-1037-16-16	FD56-1037-16-16	FD56-1037-16-16	FD56-1037-16-16	Male	1	1	1-11 1/2	Female NPT	1	70.4	(2.77)	-	-	41.1	(1.62)
FD56-1225-16-16	FD56-1207-16-16	FD56-1204-16-16	FD56-1204-16-16	Female	1	1	1-11 1/2	Female NPT	2	97	(3.82)	53.3	(2.10)	42.9	(1.69)
FD56-1226-16-16	FD56-1208-16-16	FD56-1205-16-16	FD56-1205-16-16	Complete	1	1	1-11 1/2	Female NPT	3	140.7	(5.54)	-	-	-	-

Note: Will not operate with valved coupling halves; no valve actuator. *Male halves contain no seals.

Dimensions (Female NPT, Pusher-Style Valving)

Part Number	Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		Dimensions B		Hex ①	
										mm	(in)	mm	(in)	mm	(in)
FD56-1125-04-04	FD56-1125-04-04	FD56-1125-04-04	FD56-1125-04-04	Male	1/4	1/4	1/4-18	Female NPT	1	31.5	(1.24)	-	-	19	(.75)
FD56-1123-04-04	FD56-1201-04-04	FD56-1196-04-04	FD56-1196-04-04	Female	1/4	1/4	1/4-18	Female NPT	2	46	(1.81)	27.4	(1.08)	22.4	(.88)
FD56-1125-06-06	FD56-1125-06-06	FD56-1125-06-06	FD56-1125-06-06	Male	3/8	3/8	3/8-18	Female NPT	1	35.6	(1.40)	-	-	22.4	(.88)
FD56-1123-06-06	FD56-1201-06-06	FD56-1196-06-06	FD56-1196-06-06	Female	3/8	3/8	3/8-18	Female NPT	2	54.6	(2.15)	31.2	(1.23)	25.4	(1.00)
FD56-1125-08-10	FD56-1125-08-10	FD56-1125-08-10	FD56-1125-08-10	Male	5/8	1/2	1/2-14	Female NPT	1	48	(1.89)	-	-	26.9	(1.06)
FD56-1123-08-10	FD56-1201-08-10	FD56-1196-08-10	FD56-1196-08-10	Female	5/8	1/2	1/2-14	Female NPT	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
FD56-1125-12-12	FD56-1125-12-12	FD56-1125-12-12	FD56-1125-12-12	Male	3/4	3/4	3/4-14	Female NPT	1	57.9	(2.28)	-	-	35.1	(1.38)
FD56-1123-12-12	FD56-1201-12-12	FD56-1196-12-12	FD56-1196-12-12	Female	3/4	3/4	3/4-14	Female NPT	2	82.6	(3.25)	46	(1.81)	38.1	(1.50)
FD56-1125-16-16	FD56-1125-16-16	FD56-1125-16-16	FD56-1125-16-16	Male	1	1	1-11 1/2	Female NPT	1	70.4	(2.77)	-	-	41.1	(1.62)
FD56-1123-16-16	FD56-1201-16-16	FD56-1196-16-16	FD56-1196-16-16	Female	1	1	1-11 1/2	Female NPT	2	97	(3.82)	53.3	(2.10)	42.9	(1.69)

Note: Incorporates a pusher device to open mating valved coupling halves.

Dimensions (Male Half, Female BSP/Valved)

Part Number	Buna-N	Body Size	Thread	Fig.	Dimensions A		Dimensions B		Hex ①	
					mm	(in)	mm	(in)	mm	(in)
G5623-4-4		1/4	G 1/4	1	1.25	(31.8)	-	-	0.75	(19.0)
G5623-6-6		3/8	G 3/8	1	1.63	(41.5)	-	-	0.87	(22.0)
G5623-8-10		5/8	G 1/2	1	1.88	(47.7)	-	-	1.06	(27.0)
G5623-12-12		3/4	G 3/4	1	2.28	(58.0)	-	-	1.42	(36.0)
G5623-16-16		1	G 1	1	2.76	(70.0)	-	-	1.61	(41.0)

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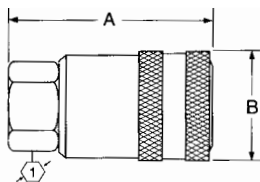


Figure 4

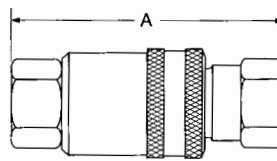


Figure 5

Dimensions (Female Half, Female BSP/Valved)

Part Number Buna-N	Body Size	Thread	Fig.	Dimensions A		B		Hex ①	
				mm	(in)	mm	(in)	mm	(in)
G5622-4-4	1/4	G 1/4	2	1.81	(46.0)	1.04	(26.3)	0.87	(22.0)
G5622-6-6	3/8	G 3/8	2	2.33	(59.1)	1.21	(30.8)	1.06	(27.0)
G5622-8-10	5/8	G 1/2	2	2.76	(70.0)	1.51	(38.3)	1.26	(32.0)
G5622-12-12	3/4	G 3/4	2	3.32	(84.3)	1.83	(46.6)	1.61	(41.0)
G5622-16-16	1	G 1	2	4.07	(103.5)	2.15	(54.6)	1.97	(50.0)

Dimensions (Female NPT, Connect Under Pressure Style)

Part Number Buna-N	Viton	EPR	Type	Coupling Size	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
										mm	(in)	mm	(in)	mm	(in)
5602-8-10S	FD56-1062-08-10	5644-8-10S	Male	5/8	1/2	1/2-14	Female NPT	Valved	1	51.3	(2.02)	-	-	26.9	(1.06)
5651-8-10S	FD56-1070-08-10	565007-8-10S	Female	5/8	1/2	1/2-14	Female NPT		4	73.2	(2.88)	38.1	(1.50)	26.9	(1.06)
5650-8-10S	FD56-1071-08-10	565006-8-10S	Complete	5/8	1/2	1/2-14	Female NPT		5	98.8	(3.89)	-	-	-	-
5602-12-10S	FD56-1062-12-10	5644-12-10S	Male	5/8	3/4	3/4-14	Female NPT	Valved	1	54.9	(2.16)	-	-	35.1	(1.38)
5651-12-10S	FD56-1070-12-10	565007-12-10S	Female	5/8	3/4	3/4-14	Female NPT		4	83.8	(3.30)	38.1	(1.50)	31.8	(1.25)
5650-12-10S	FD56-1071-12-10	565006-12-10S	Complete	5/8	3/4	3/4-14	Female NPT		5	113	(4.45)	-	-	-	-

Dimensions (Female, SAE O-ring Valved)

Part Number Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
									mm	(in)	mm	(in)	mm	(in)
5610-4-4S	FD56-1072-04-04	560078-4-4S	Male	1/4	7/16	7/16-20	Female SAE O-ring	1	32.5	(1.28)	-	-	15.7	(.62)
5608-4-4S	FD56-1074-04-04	FD56-1012-04-04S	Female	1/4	7/16	7/16-20	Female SAE O-ring	2	46	(1.81)	27.4	(1.08)	22.4	(.88)
5606-4-4S	FD56-1075-04-04	FD56-1009-04-04S	Complete	1/4	7/16	7/16-20	Female SAE O-ring	3	64.3	(2.53)	-	-	-	-
5610-6-6S	FD56-1072-06-06	560078-6-6S	Male	3/8	9/16	9/16-18	Female SAE O-ring	1	38.1	(1.50)	-	-	22.4	(.88)
5608-6-6S	FD56-1074-06-06	FD56-1012-06-06S	Female	3/8	9/16	9/16-18	Female SAE O-ring	2	54.6	(2.15)	31.2	(1.23)	25.4	(1.00)
5606-6-6S	FD56-1075-06-06	FD56-1009-06-06S	Complete	3/8	9/16	9/16-18	Female SAE O-ring	3	72.1	(2.84)	-	-	-	-
5610-8-10S	FD56-1072-08-10	560078-8-10S	Male	5/8	3/4	3/4-16	Female SAE O-ring	1	51.6	(2.03)	-	-	26.9	(1.06)
5608-8-10S	FD56-1074-08-10	FD56-1012-08-10S	Female	5/8	3/4	3/4-16	Female SAE O-ring	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
5606-8-10S	FD56-1075-08-10	FD56-1009-08-10S	Complete	5/8	3/4	3/4-16	Female SAE O-ring	3	96	(3.78)	-	-	-	-
5610-10-10S	FD56-1072-10-10	560078-10-10S	Male	5/8	7/8	7/8-14	Female SAE O-ring	1	52.8	(2.08)	-	-	28.4	(1.12)
5608-10-10S	FD56-1074-10-10	FD56-1012-10-10S	Female	5/8	7/8	7/8-14	Female SAE O-ring	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
5606-10-10S	FD56-1075-10-10	FD56-1009-10-10S	Complete	5/8	7/8	7/8-14	Female SAE O-ring	3	98.6	(3.88)	-	-	-	-
5610-12-12S	FD56-1072-12-12	560078-12-12S	Male	3/4	1 1/16	1 1/16-12	Female SAE O-ring	1	64.8	(2.55)	-	-	35.1	(1.38)
5608-12-12S	FD56-1074-12-12	FD56-1012-12-12S	Female	3/4	1 1/16	1 1/16-12	Female SAE O-ring	2	82.6	(3.25)	46	(1.81)	38.1	(1.50)
5606-12-12S	FD56-1075-12-12	FD56-1009-12-12S	Complete	3/4	1 1/16	1 1/16-12	Female SAE O-ring	3	115.8	(4.56)	-	-	-	-
5610-16-16S	FD56-1072-16-16	560078-16-16S	Male	1	1 5/16	1 5/16-12	Female SAE O-ring	1	78.7	(3.10)	-	-	41.1	(1.62)
5608-16-16S	FD56-1074-16-16	FD56-1012-16-16S	Female	1	1 5/16	1 5/16-12	Female SAE O-ring	2	97.3	(3.83)	53.3	(2.10)	42.9	(1.69)
5606-16-16S	FD56-1075-16-16	FD56-1009-16-16S	Complete	1	1 5/16	1 5/16-12	Female SAE O-ring	3	140.7	(5.54)	-	-	-	-

Dimensions (Female SAE O-ring, Valved with Sleeve Lock)

Part Number Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions A		B		Hex ①	
									mm	(in)	mm	(in)	mm	(in)
FD56-1270-06-06	-	-	Female	3/8	9/16	9/16-18	Female SAE O-ring	3	54.6	(2.15)	31.8	(1.23)	25.4	(1.00)
FD56-1270-08-10	-	-	Female	5/8	3/4	3/4-16	Female SAE O-ring	3	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
FD56-1270-12-12	-	-	Female	3/4	1 1/16	1 1/16-12	Female SAE O-ring	3	82.6	(3.25)	46.7	(1.81)	38.1	(1.50)
FD56-1270-16-16	-	-	Female	1	1 5/16	1 5/16-12	Female SAE O-ring	3	97.0	(3.82)	54.1	(2.10)	42.9	(1.69)

5600 Series

ISO 7241/1
Series A Interchange

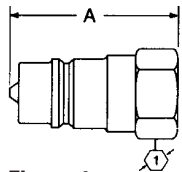


Figure 1

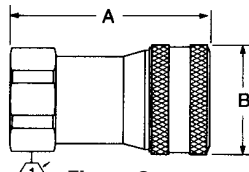


Figure 2

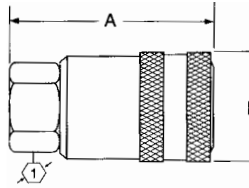


Figure 4

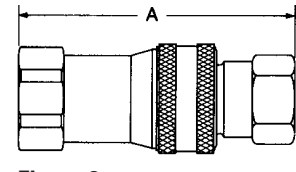


Figure 3

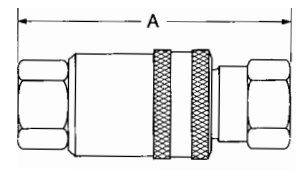


Figure 5

Dimensions (Female, SAE O-ring Non-Valved)

Part Number	Buna-N	Viton	EPR	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex		
										A	B	mm	(in)	mm
5620-8-10S	FD56-1221-08-10	FD56-1221-08-10	Male	5/8	3/4	3/4-16	Female SAE O-ring	1	48.0	(1.89)	25.9	(1.02)	26.9	(1.06)
5691-8-10S	FD56-1233-08-10	FD56-1209-08-10	Female	5/8	3/4	3/4-16	Female SAE O-ring	2	66.3	(2.61)	38.1	(1.50)	30.2	(1.19)
5690-8-10S	FD56-1234-08-10	FD56-1210-08-10	Complete	5/8	3/4	3/4-16	Female SAE O-ring	3	96.0	(3.78)	-	-	-	-
5620-12-12S	FD56-1221-12-12	FD56-1221-12-12	Male	3/4	1 1/16	1 1/16-12	Female SAE O-ring	1	57.9	(2.28)	30.7	(1.21)	35.1	(1.38)
5691-12-12S	FD56-1233-12-12	FD56-1209-12-12	Female	3/4	1 1/16	1 1/16-12	Female SAE O-ring	2	82.6	(3.25)	46.0	(1.81)	38.1	(1.50)
5690-12-12S	FD56-1234-12-12	FD56-1210-12-12	Complete	3/4	1 1/16	1 1/16-12	Female SAE O-ring	3	115.8	(4.56)	-	-	-	-
5620-16-16S	FD56-1221-16-16	FD56-1221-16-16	Male	1	1 5/16	1 5/16-12	Female SAE O-ring	1	70.4	(2.77)	36.8	(1.45)	41.1	(1.62)
5691-16-16S	FD56-1233-16-16	FD56-1209-16-16	Female	1	1 5/16	1 5/16-12	Female SAE O-ring	2	103.9	(4.09)	54.6	(2.15)	47.8	(1.88)
5690-16-16S	FD56-1234-16-16	FD56-1210-16-16	Complete	1	1 5/16	1 5/16-12	Female SAE O-ring	3	140.0	(5.51)	-	-	-	-

Repair Kits

Part Number	Viton	EPR	Body Size
FF082-04†	FF092-04†	FF093-04†	1/4
FF082-06	FF092-06	FF093-06	3/8
FF082-10	FF092-10	FF093-10	5/8
FF082-12	FF092-12	FF093-12	3/4
FF082-16	FF092-16	FF093-16	1

Note: Each kit will repair one male or female half.

*The -02 coupling size valving is not repairable. This size repair kit contains an interface seal and back-up ring.

Break Away Frame

Part Number	Body Size
5603	-10



Break Away Frame

Dust Caps

Part Number	Body Size
5654-4	1/4
5657-6	3/8
5657-10	5/8
5657-12	3/4
5657-16	1



Dust Cap

Dust Plugs

Part Number	Body Size
5659-4	1/4
5659-6	3/8
5659-10	5/8
5659-12	3/4
5659-16	1



Dust Plug