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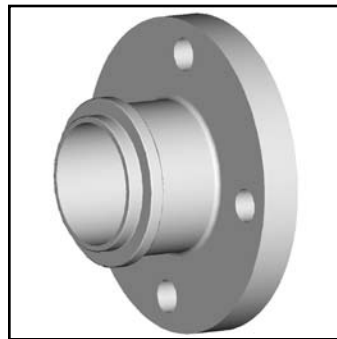
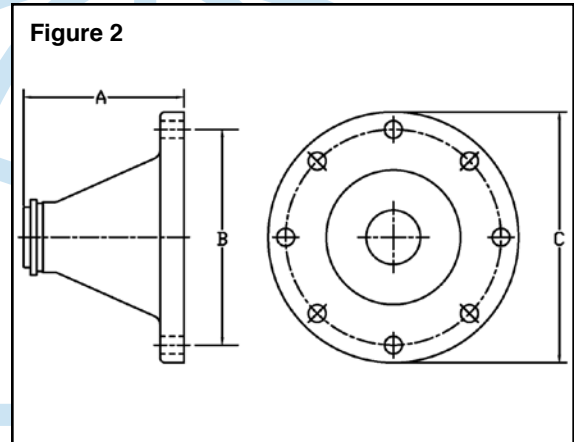
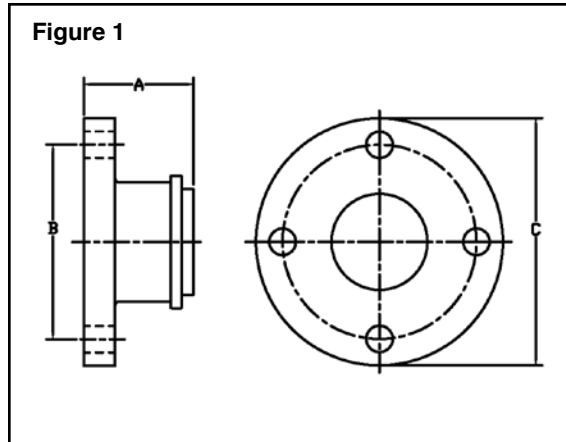
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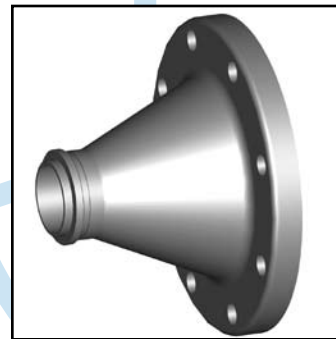


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Flange to Male Split Clamp End, Aluminum



73537-2-1/2-40D Shown



73537-7-40D Shown

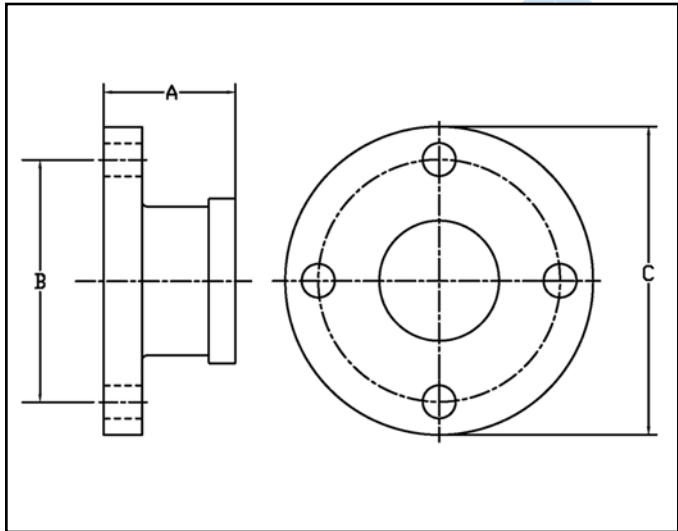
Part Number	Dimensions			Flange End Size	Male Split Clamp End	Holes	NSN
	A	B	C				
Figure 1							
73537-2-1/2-40D	3.10"	5.50"	7.00"	2.5"	2.5"	4	4730-01-416-8589
73537-4-64D	3.15"	7.50"	9.00"	4"	4"	8	4730-00-005-7370
73537-5-64D	3.21"	8.50"	10.00"	5"	4"	8	unassigned
73537-6-64D	3.57"	9.50"	11.00"	6"	4"	8	4730-00-007-9404
73537-6-96D	3.31"	9.50"	11.00"	6"	6"	8	4730-00-817-7778
73537-6-7D	3.31"	9.50"	11.00"	6"	7"	8	4730-01-022-6092
73537-7-96D	3.50"	10.75"	12.50"	6"	6"	8	unassigned
73537-7-7D	3.50"	10.75"	12.50"	7"	6"	8	4730-00-793-9815
73537-8-7D	3.50"	11.75"	13.50"	8"	7"	8	4730-01-313-5409
Figure 2							
73537-7-40D	8.00"	10.75"	12.50"	7"	2.5"	8	unassigned
73537-8-40D	8.00"	11.75"	13.50"	8"	2.5"	8	unassigned



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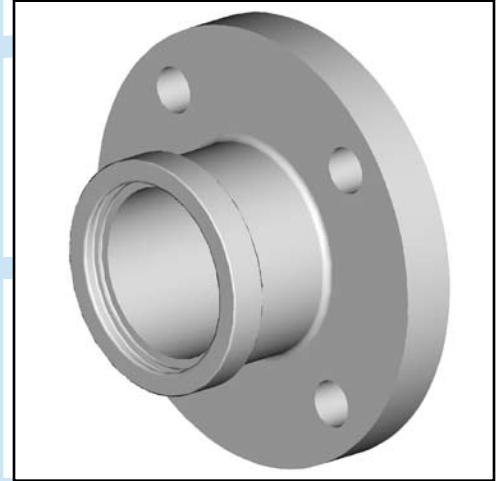
Telephone: 814-445-9671
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Flange to Female Split Clamp End, Aluminum



72078-2-1/2-40D Shown

72078-2-1/2-40D Shown



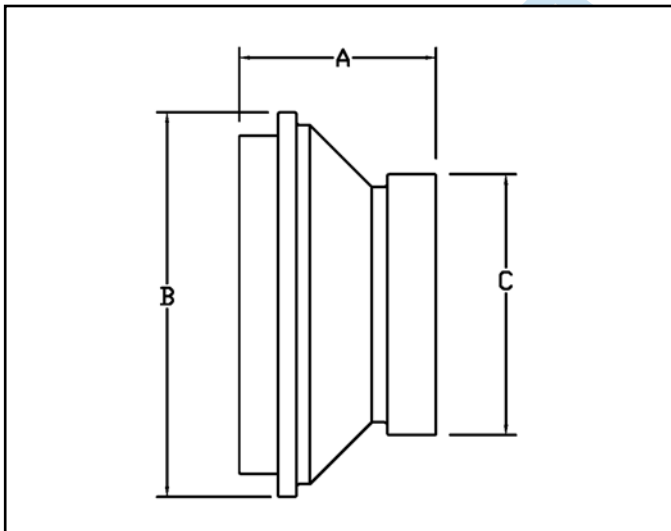
Part Number	Dimensions			Flange End Size	Female Split Clamp End	Holes	NSN
	A	B	C				
72078-2-1/2-40D	3.00"	5.50"	7.00"	2.5"	2.5"	4	4730-01-416-8588
4472647-4F-25FS	3.13"	4.75"	11.00"	4"	2.5"	8	unassigned
72078-4-64D	3.09"	7.50"	9.00"	4"	4"	8	4730-01-261-1031
72078-6-64D	3.51"	9.50"	11.00"	6"	4"	8	unassigned
72078-6-96D	2.94"	9.50"	11.00"	6"	6"	8	4730-00-817-7779
72078-6-7D	2.94"	9.50"	11.00"	6"	7"	8	4730-01-022-5943
72078-7-7D	3.12"	10.75"	12.50"	7"	7"	8	4730-00-453-9037
72078-8-7D	3.12"	11.75"	13.50"	8"	7"	8	unassigned



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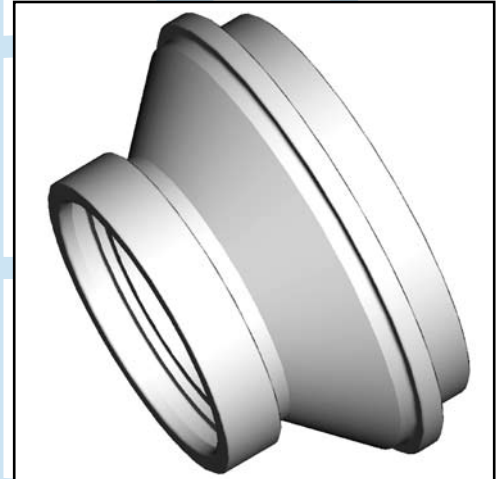
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Female Split Clamp End to Male Split Clamp End, Aluminum



FF1000-0406D Shown

FF1000-0406D Shown

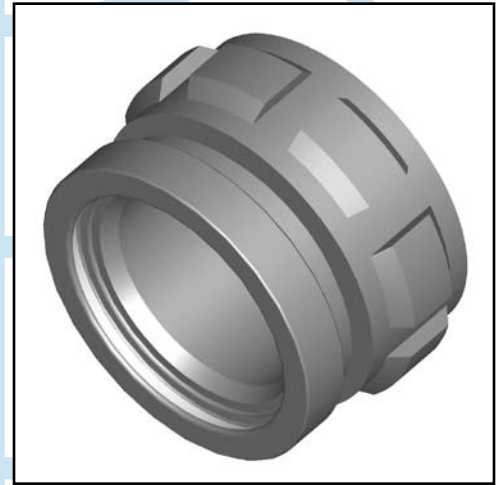
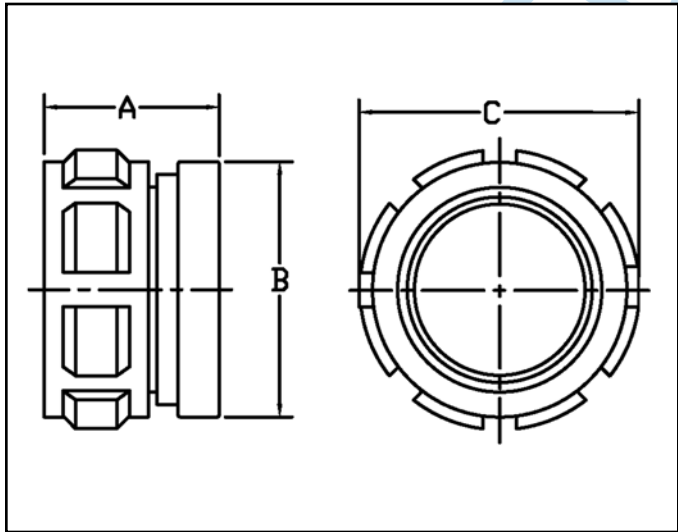


Part Number	Dimensions			Female Split Clamp End	Male Split Clamp End	NSN
	A	B	C			
FF1000-0406D	3.64"	7.10"	4.81"	4"	6"	4730-01-518-6607
FF1000-0604D	3.78"	4.81"	7.10"	6"	4"	4730-01-518-6599
FF1000-0607D	3.21"	8.10"	7.10"	6"	7"	4730-01-120-1034
FF1000-0704D	4.27"	4.81"	8.10"	7"	4"	4730-00-793-9816
FF1000-0706D	3.01"	7.10"	8.10"	7"	6"	unassigned



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Female Split Clamp End to Female Hose Thread, Bronze



FF1037-4040-175 Shown

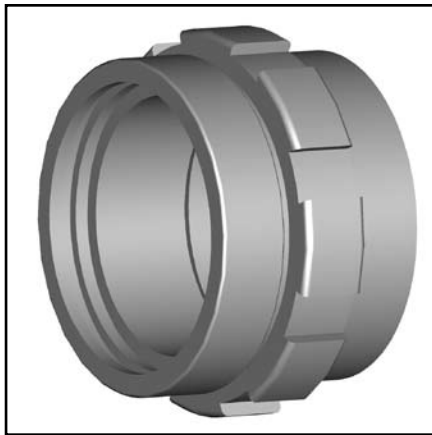
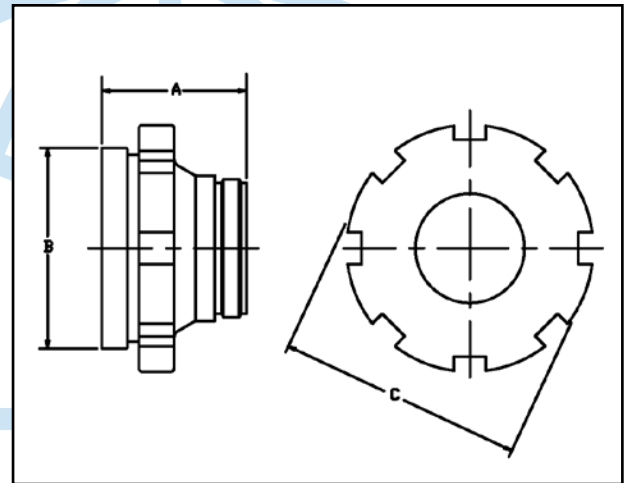
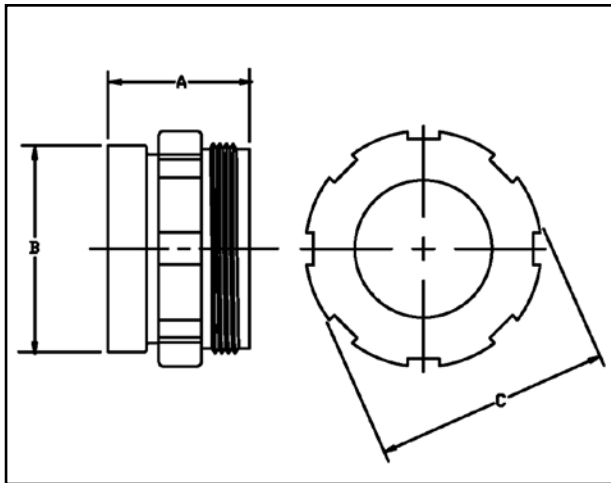
Part Number	Dimensions			Female Split Clamp End	Female Hose Thread	NSN
	A	B	C			
FF1037-4040-175	2.57"	3.75"	4.12"	2.5"	2.5"	4730-01-310-1135
FF1037-4064-175	2.88"	4.81"	4.12"	4"	2.5"	unassigned
FF1037-6464-175	3.03"	4.81"	6.19"	4"	4"	unassigned



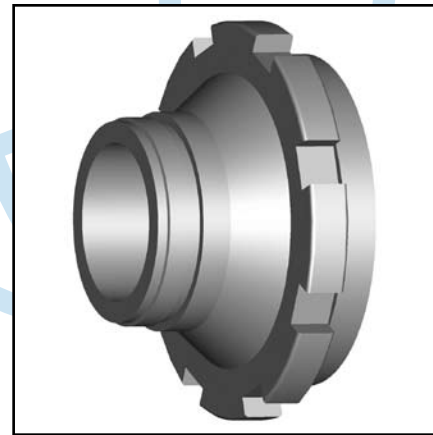
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Female Split Clamp End to Male Hose Thread, Bronze



115-72465-4-64
Shown



115-72076-4-7
Shown

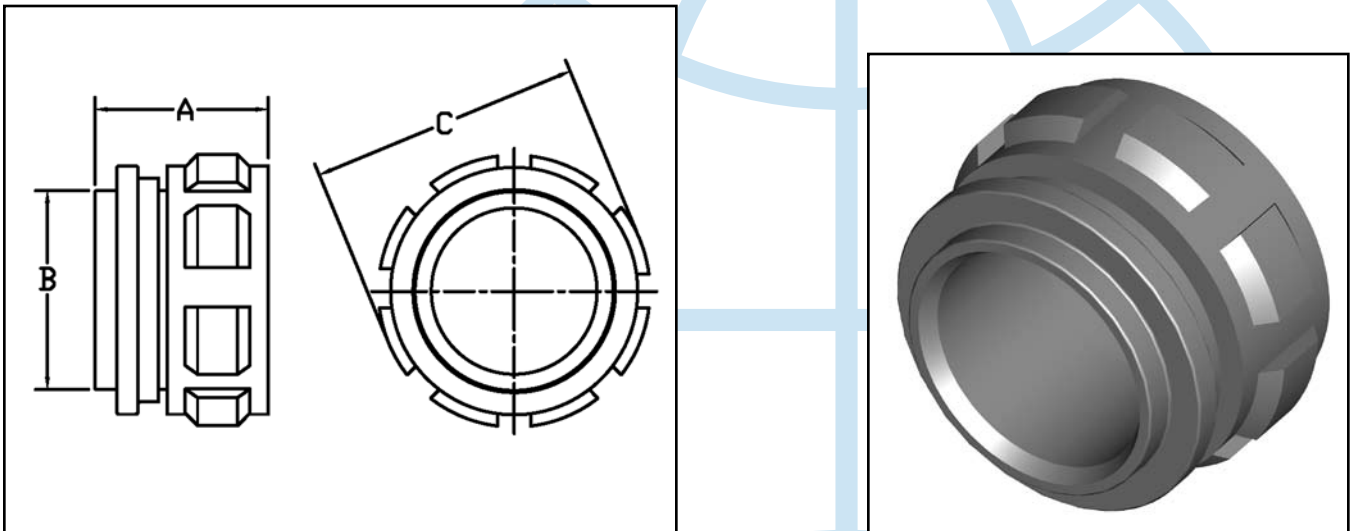
Part Number	Dimensions			Female Split Clamp End	Male Hose Thread	NSN
	A	B	C			
115-72465-2-1/2-64	3.19"	4.81"	5.50"	4"	2.5"	unassigned
115-72465-4-64	3.13"	4.81"	5.50"	4"	4"	4730-00-007-9406
115-72076-4-96	5.12"	7.10"	8.75"	6"	4"	4730-00-756-1469
115-72076-4-7	5.12"	8.10"	9.75"	7"	4"	4730-01-022-6088



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Male Split Clamp End to Female Hose Thread, Bronze



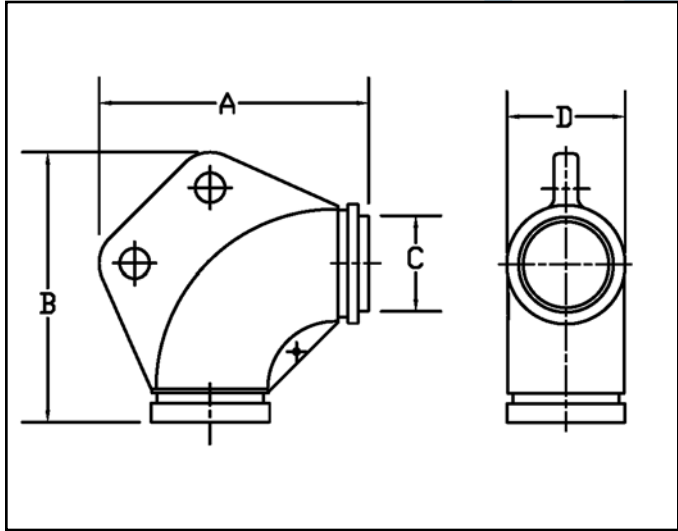
Part Number	Dimensions			Male Split Clamp End	Female Hose Thread	NSN
	A	B	C			
FF1474-4040-175	2.62"	3.00"	4.12"	2.5"	2.5"	4730-01-310-1161



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90 Degree Elbow Male Split Clamp End to Female Split Clamp End, Aluminum 2.5"



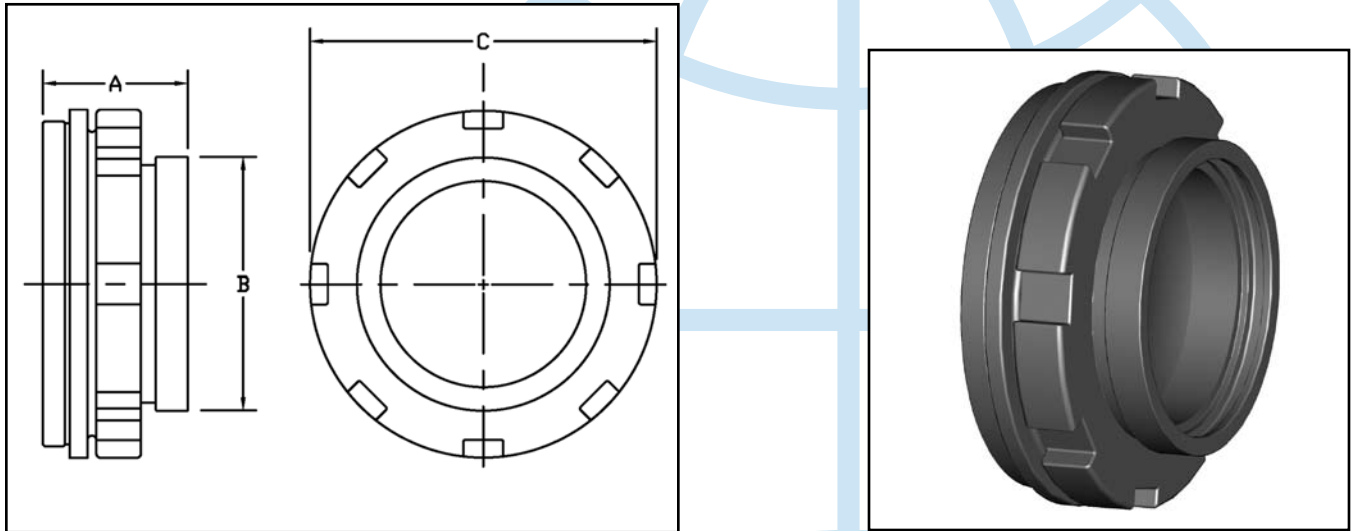
Part Number	Dimensions				Male Split Clamp End	Female Split Clamp End	NSN
	A	B	C	D			
FF1573-40D	8.50"	8.50"	3.00"	3.75"	2.5"	2.5"	4730-01-106-0822



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ROBB Coupling Body to Female Split Clamp



115-72458-6 Shown

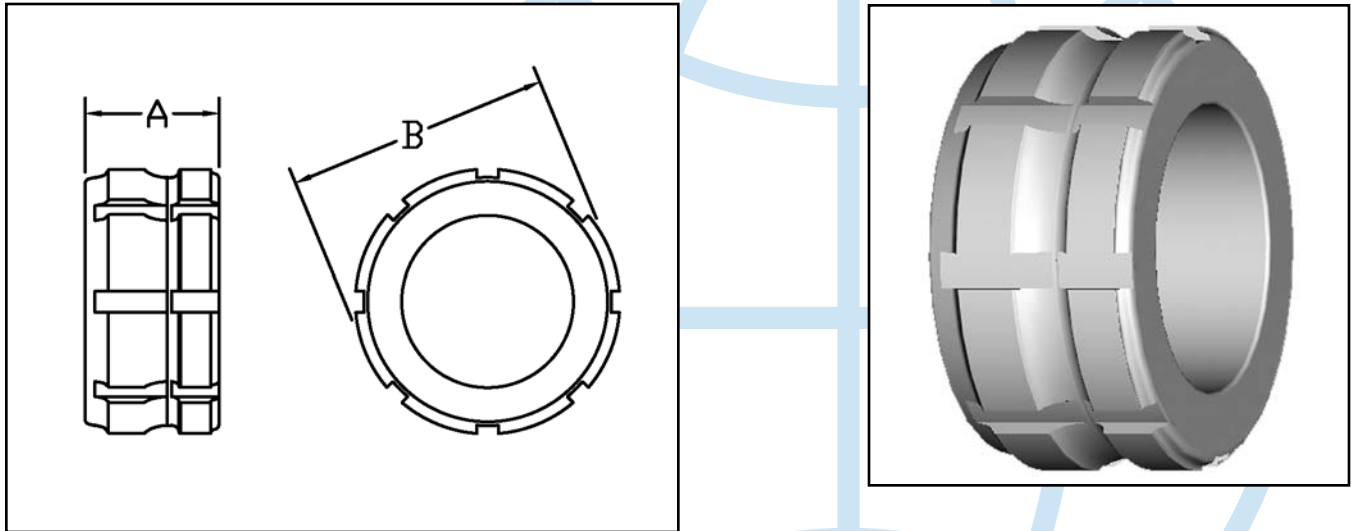
Part Number	Dimensions			ROBB Coupling End	Female Split Clamp End	NSN
	A	B	C			
115-72458-6	4.07"	7.10"	9.75"	6"	6"	unassigned
115-72458-7	4.07"	8.10"	9.75"	7"	7"	unassigned



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Union, Female Hose Thread



Part Number	Dimensions		Female Hose Thread	NSN
	A	B		
FF5120-6464-175	3.12"	6.19"	4"	unassigned

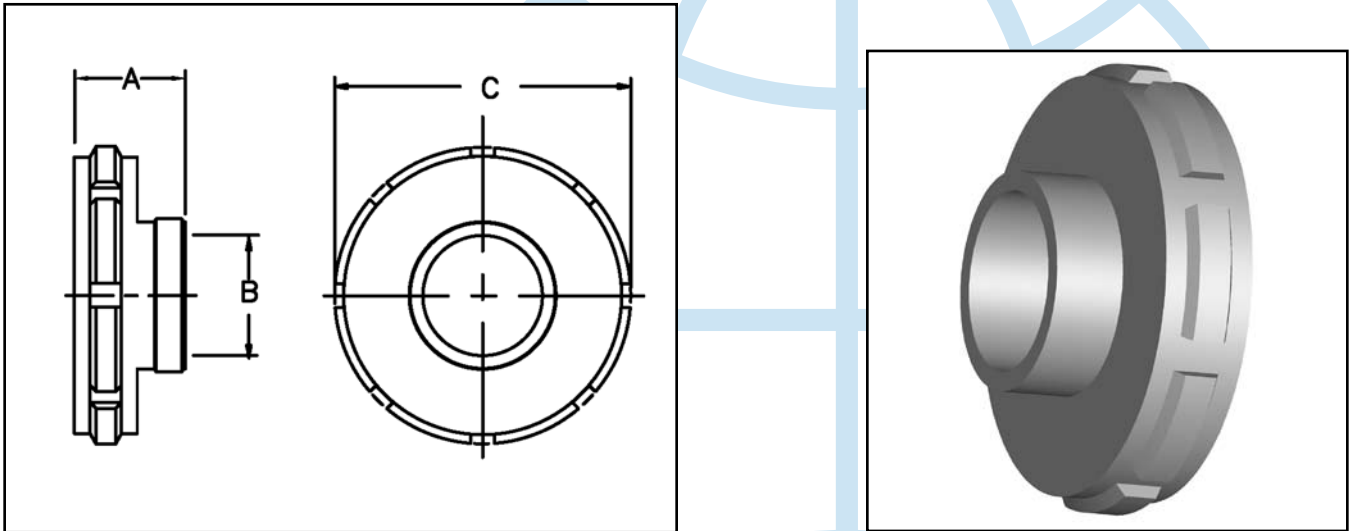


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ADAPTER • Drawing 805-4472663

Reducer, Female Hose Thread to Male Hose Thread



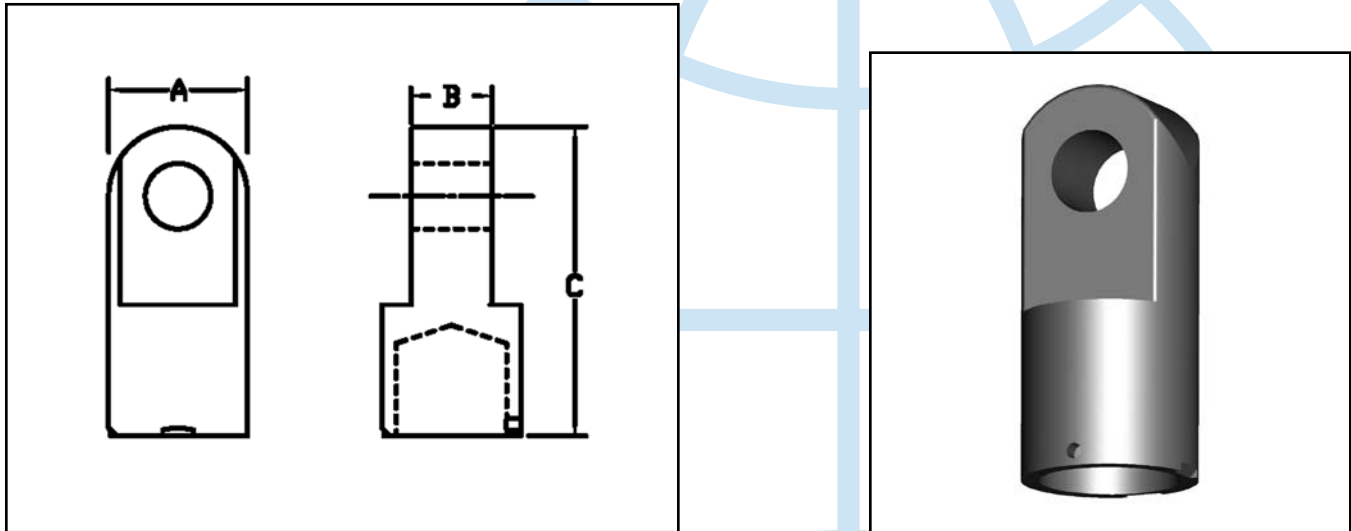
Part Number	Dimensions			Female Hose Thread	Male Hose Thread	NSN
	A	B	C			
FF1203-6440-175	2.31"	2.50"	6.19"	4"	2.5"	unassigned



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Highline End Fitting



Part Number	Dimensions			NSN
	A	B	C	
5177021	2.25"	1.31"	5.00"	1450-01-180-4916

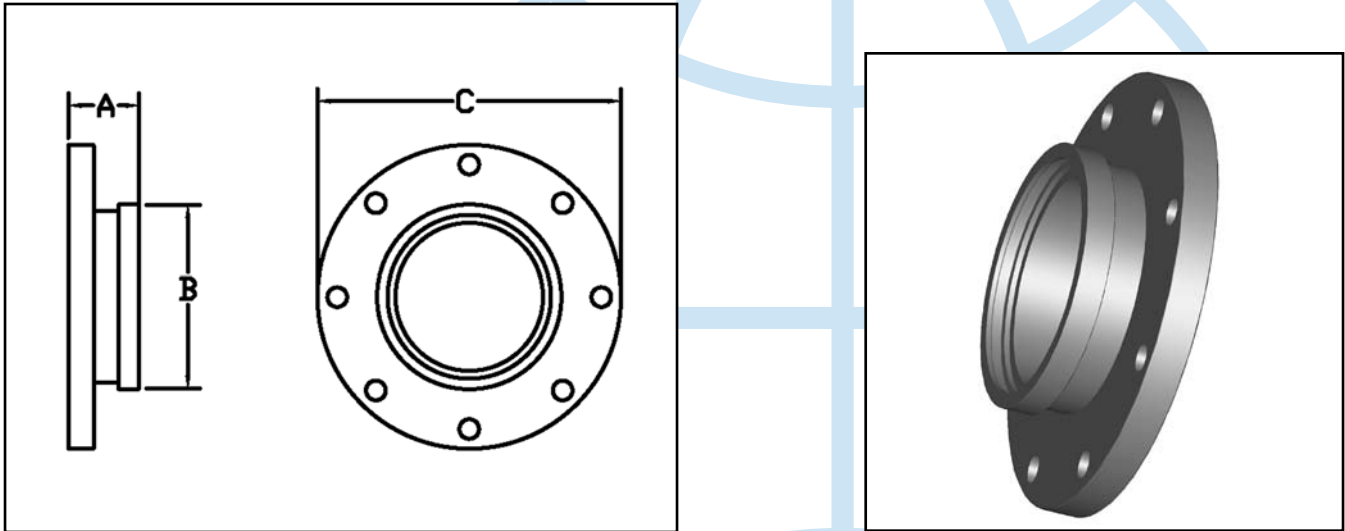


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ADAPTER • Drawing 805-2213794

Flange to Female Split Clamp, Steel



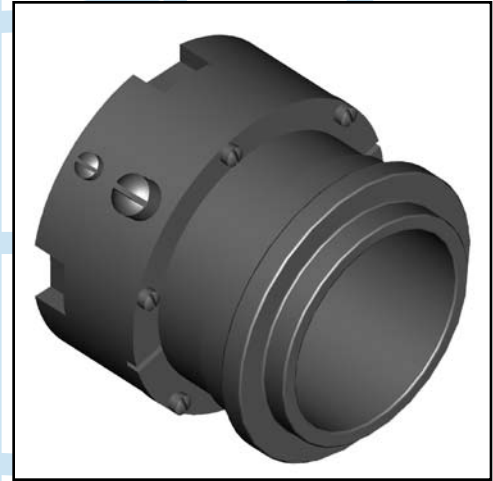
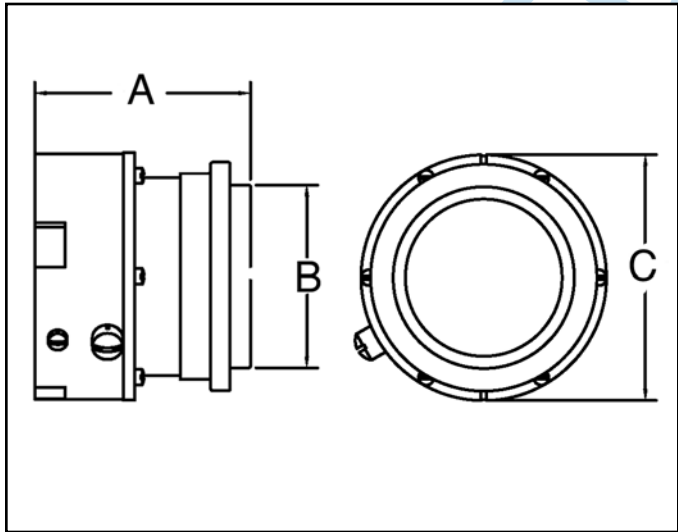
Part Number	Dimensions			Flange	Female Split Clamp End	Holes	NSN
	A	B	C				
2213794-04	3.13"	8.14"	13.50"	8"	7"	8	4730-01-335-0236



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Male Split Clamp to Male Hose Thread, Bronze Swivel



Part Number	Dimensions			Male Split Clamp End	Female Hose Thread	NSN
	A	B	C			
2260821-2	3.59"	3.00"	4.09"	2.5"	2.5"	unassigned

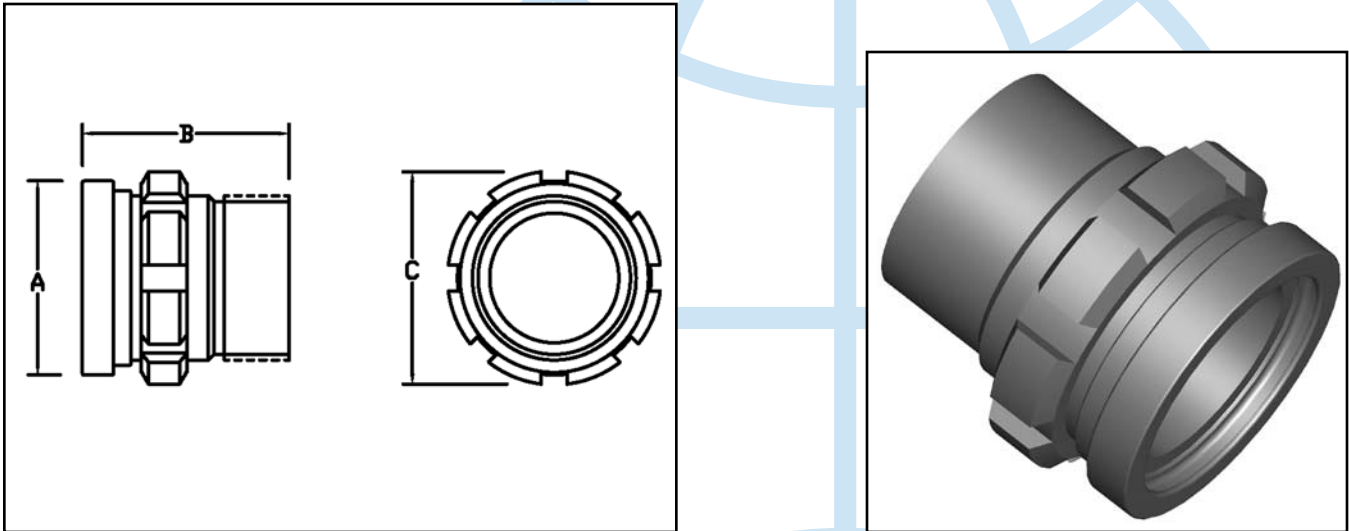


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ADAPTER

Female Split Clamp to Male Hose Thread, Bronze



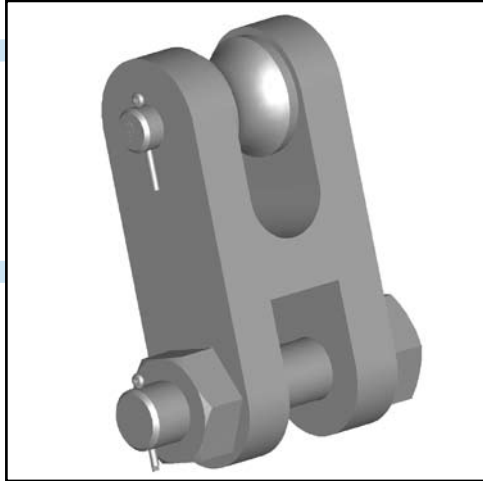
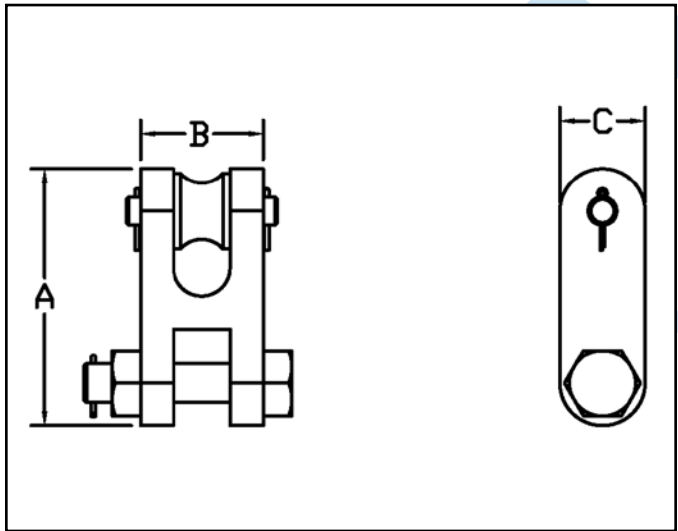
Part Number	Dimensions			Female Split Clamp End	Male Hose Thread	NSN
	A	B	C			
6700550	3.75"	4.00"	4.10"	2.5"	2.5"	unassigned



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Highline Shear Pin



Part Number	Dimensions			NSN
	A	B	C	
5177046	6.81"	3.25"	2.25"	1450-01-180-4917

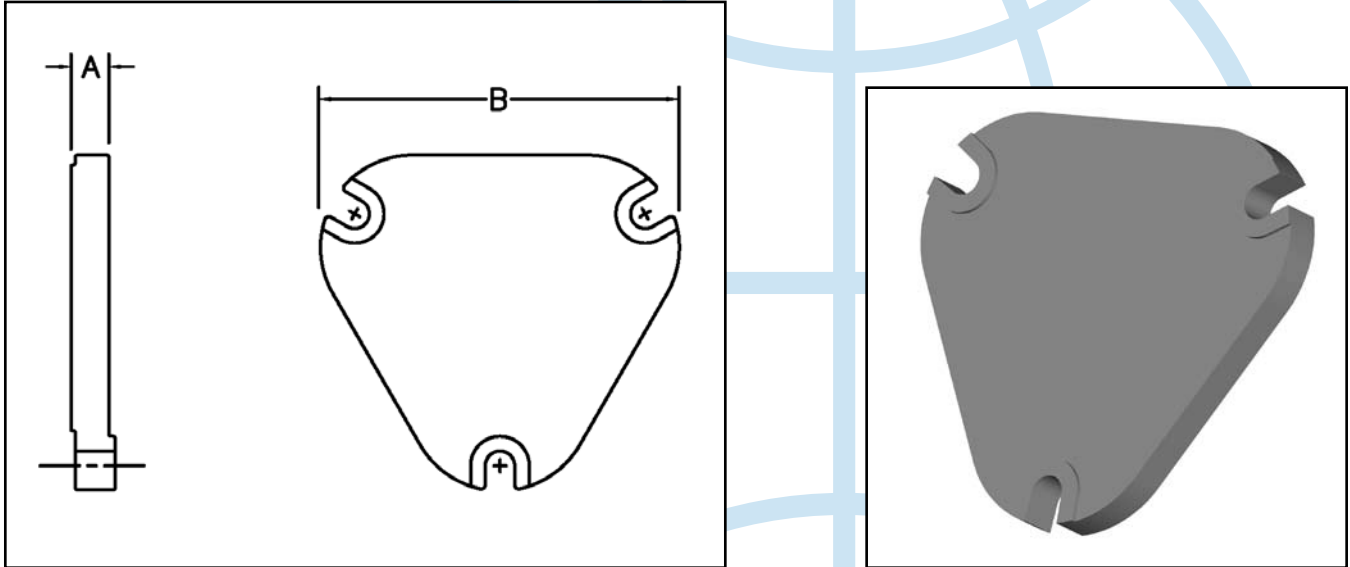


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ADAPTER • Drawing S5501-169238

Flange, Pipe, Blind End



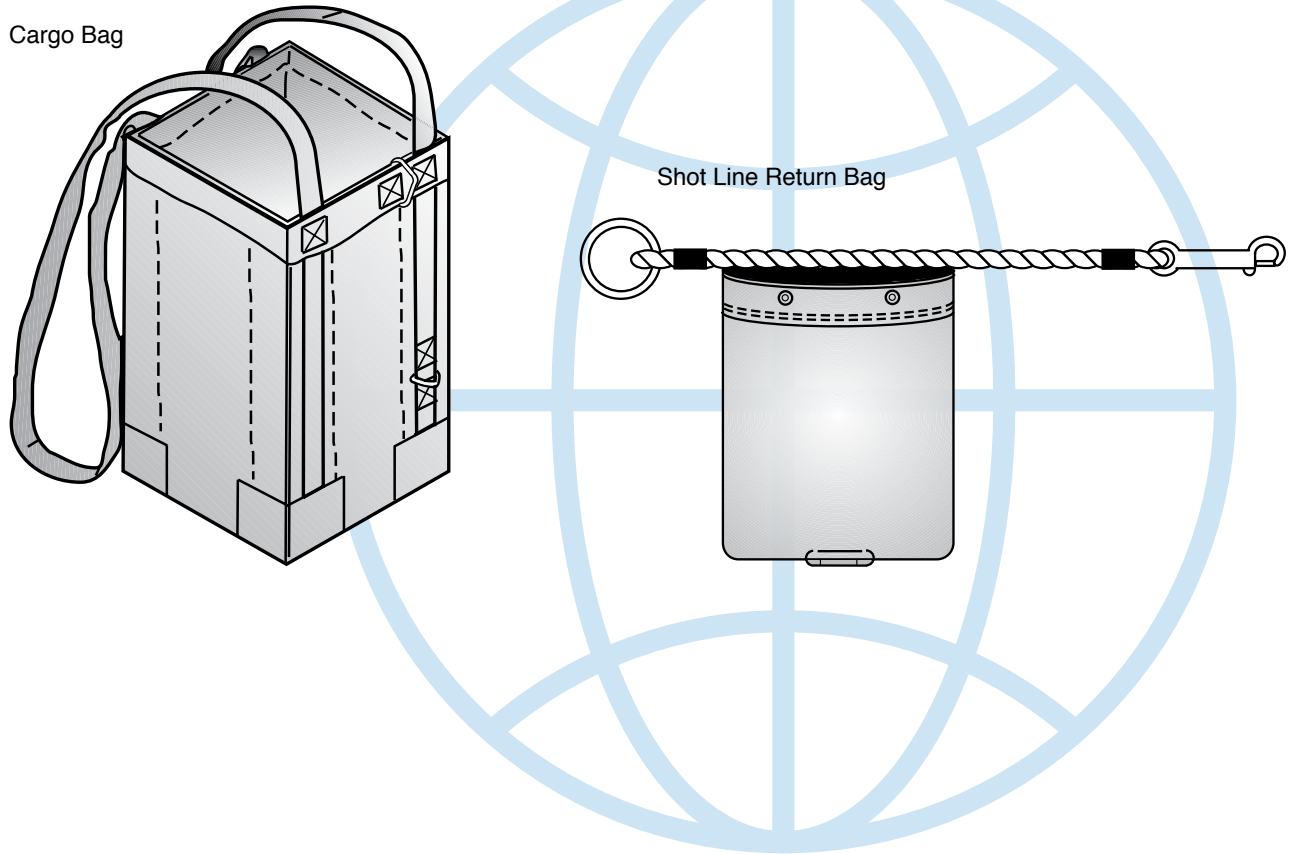
Part Number	Dimensions		NSN
	A	B	
169238-8	1.13"	10.68"	4730-00-778-3792



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Cargo Bag and Shot Line Return Bag



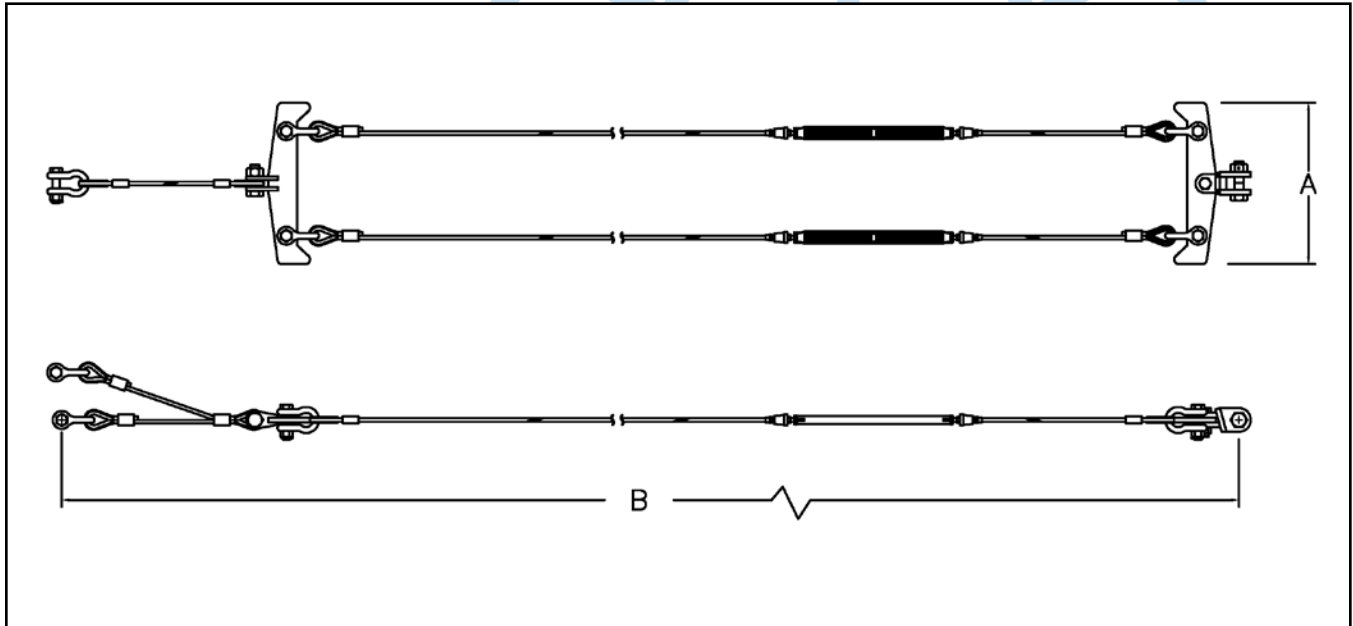
Part Number	Description	NSN
2556865 Cargo Bag	Polyester with reinforced nylon webbing	2090-00-351-2299
2556883 Shot Return Line Bag	Nylon/vinyl cloth with brass snap fasteners	2090-01-310-7796



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Stress Wire, Double Probe

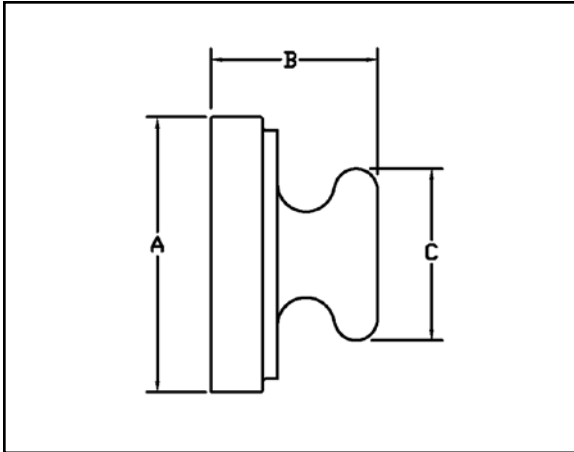


Part Number	Dimensions		NSN
	A	B	
2227937	17"	10' 4"	2040-00-629-9905

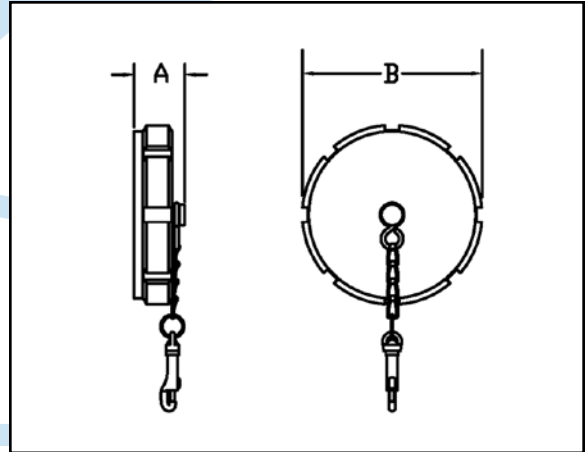


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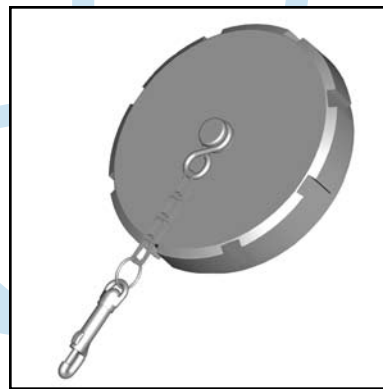
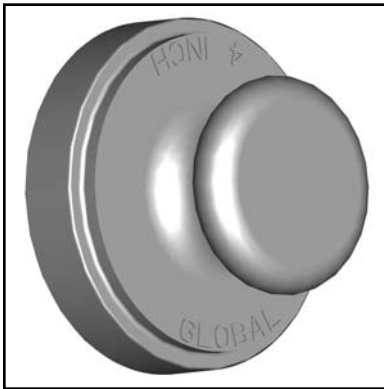
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222026 Cap, Split Clamp, Aluminum



FF9288, 7066143 Cap, Female Hose Thread with Snap Hook, Bronze



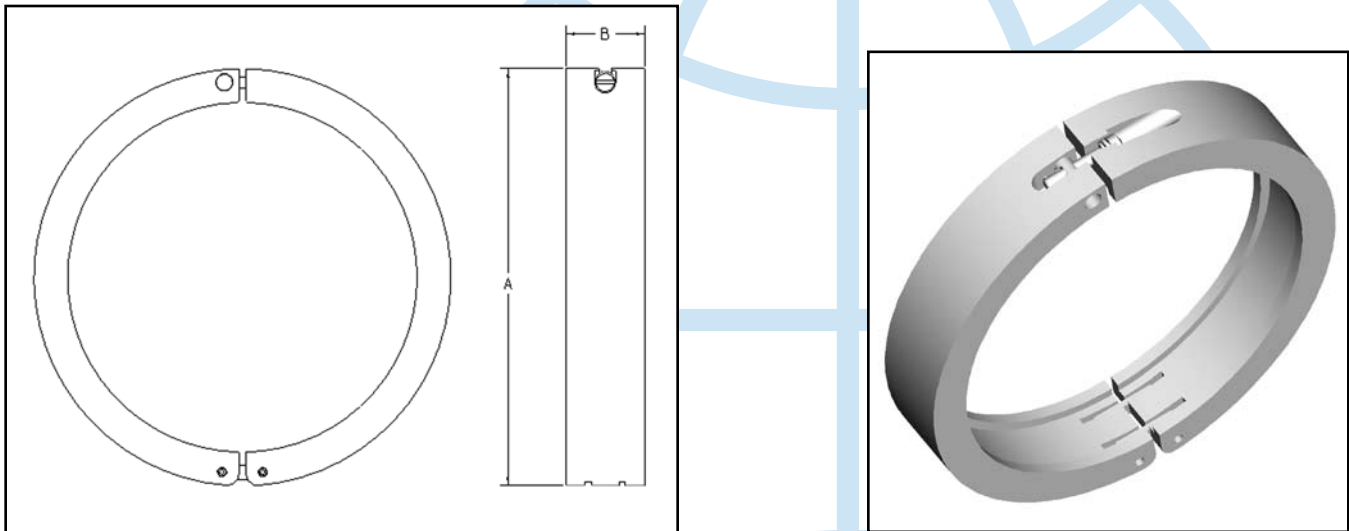
Part Number	Dimensions			Split Clamp	Hose Thread	NSN
	A	B	C			
222026-40D	3.75"	2.54"	2.76"	2.5"	-	4730-01-354-5382
222026-64D	4.81"	2.91"	3.00"	4"	-	4730-00-007-9403
222026-96D	7.10"	2.91"	3.00"	6"	-	4730-00-370-9483
222026-7D	8.10"	2.91"	3.00"	7"	-	4730-01-022-8263
7056143	4.09"	3.12"	1.37"	-	M80	unassigned
FF9288-40-175	1.68"	4.12"	-	-	2.5"	4730-00-007-94003
FF9288-64-175	1.75"	6.19"	-	-	4"	unassigned



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Split Clamp, Aluminum



M24356-SC-70 Shown

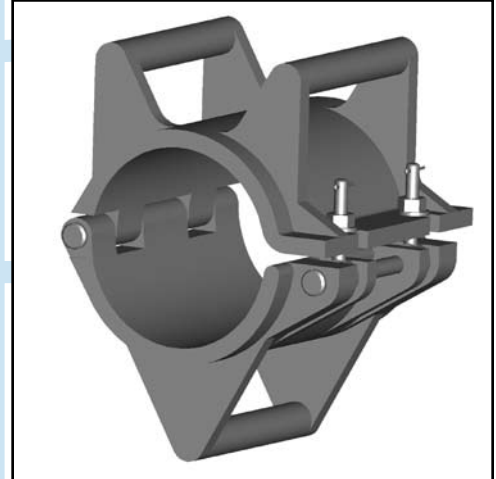
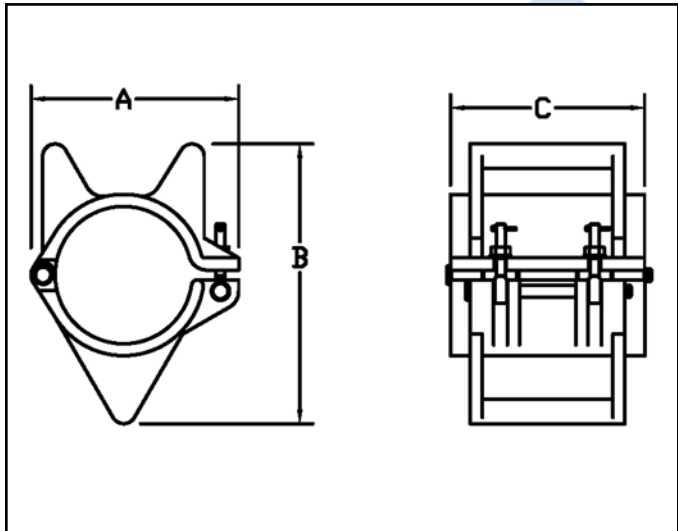
Part Number	Dimensions		I.P.S. Size	NSN
	A	B		
M24356-SC-25	4.94"	1.44"	2.5"	4730-01-271-1922
M24356-SC-40	5.97"	1.75"	4"	4730-00-007-9402
M24356-SC-60	8.25"	1.75"	6"	5340-00-793-9813
M24356-SC-70	9.25"	1.75"	7"	4730-00-793-9812



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Pigtail Hose Handling Fitting



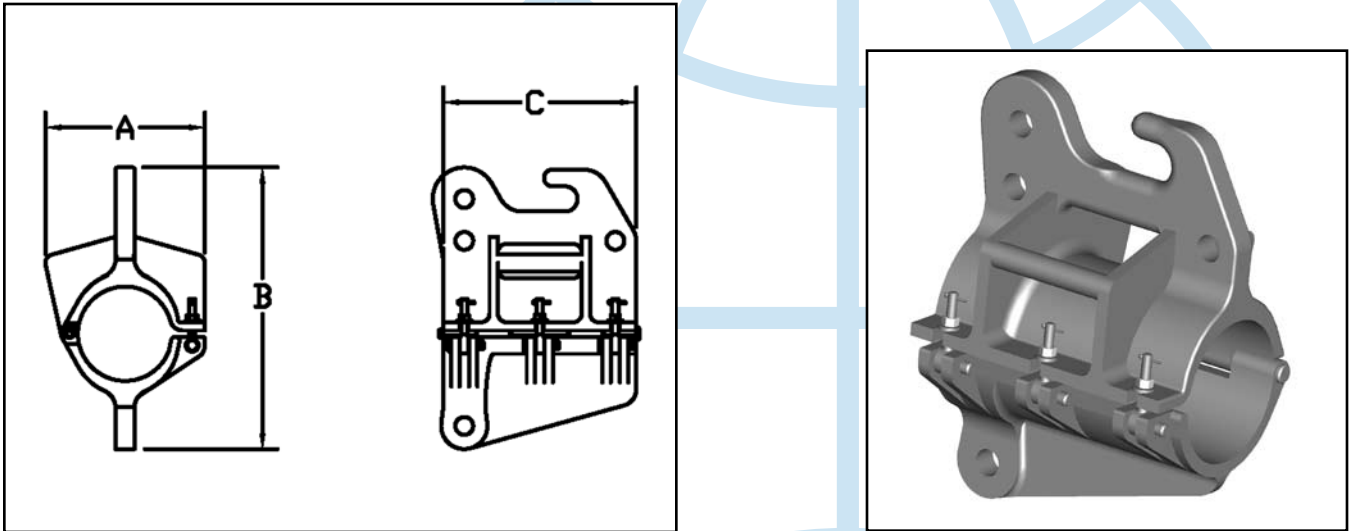
Part Number	Dimensions			NSN
	A	B	C	
FF9241-64D	8.56"	11.50"	8.00"	4730-01-022-7902



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4" Riding Line Fitting



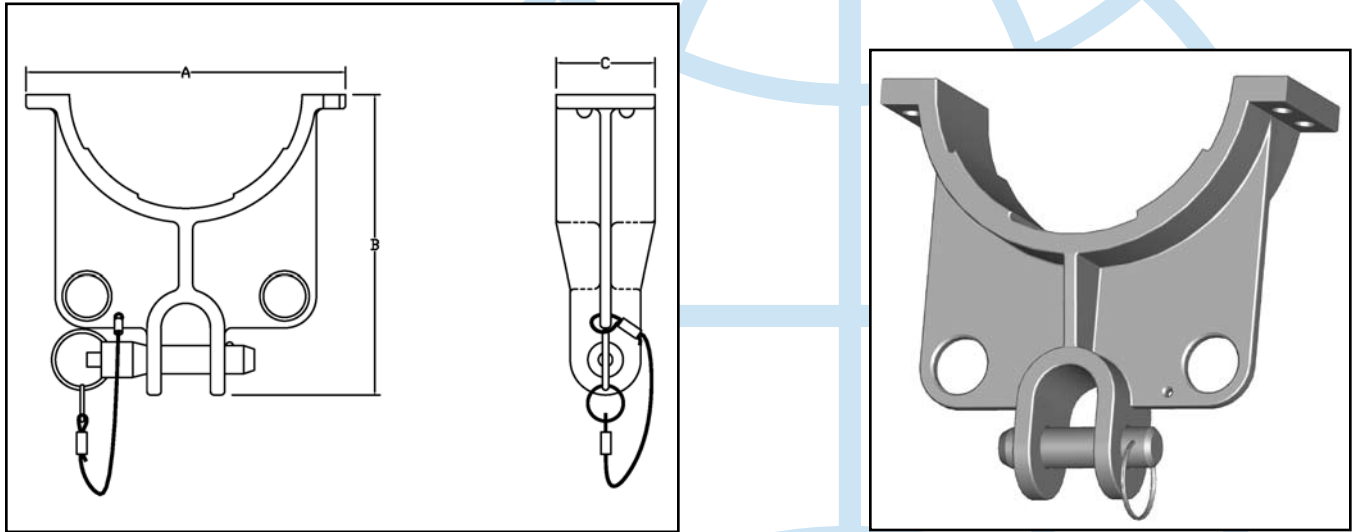
Part Number	Dimensions			NSN
	A	B	C	
504088-4	9.50"	16.75"	11.50"	4730-01-022-4077



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Special In-Haul, Bronze



Part Number	Dimensions			NSN
	A	B	C	
2252874	11.32"	10.63"	3.50"	5340-01-296-2105

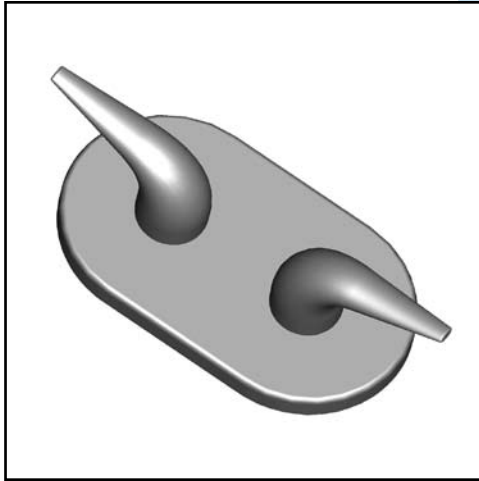
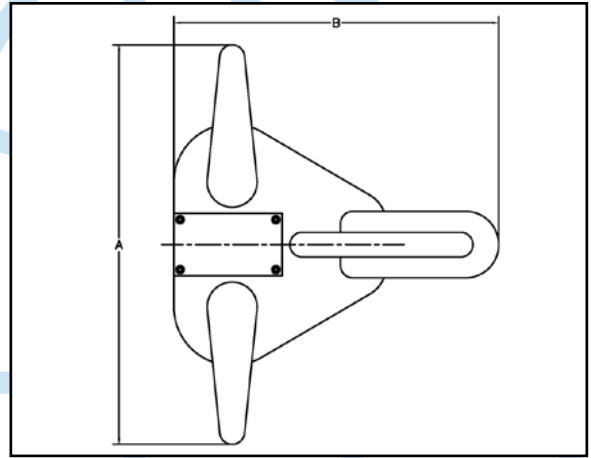
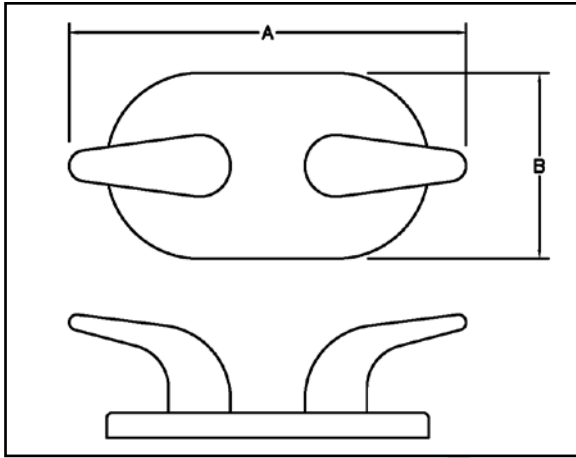


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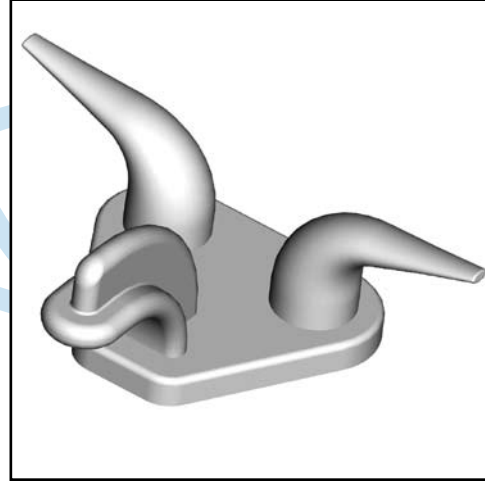
Telephone: 814-445-9671 • FAX: 814-443-1453
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CLEAT

2 Horn and 3 Horn



2 Horn



3 Horn

Part Number	Dimensions		Cleat Size	NSN
	A	B		
2 Horn				
6937122-B	12.00"	5.00"	12.00"	unassigned
6914204	14.00"	5.00"	14.00"	unassigned
6743642	20.00"	7.00"	20.00"	unassigned
3 Horn				
6743626	12.00"	9.75"	12.00"	unassigned
6743630	20.00"	14.00"	20.00"	unassigned

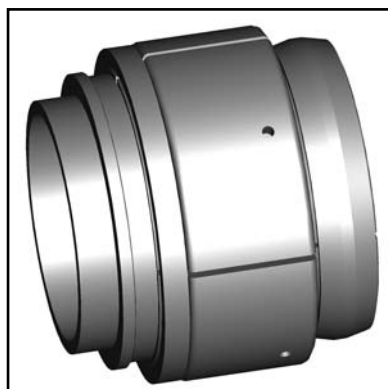
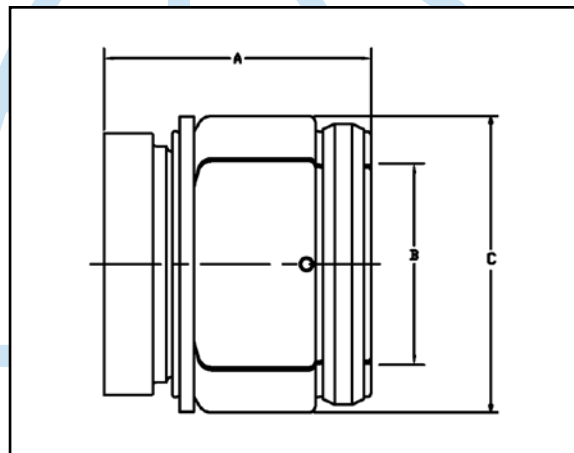
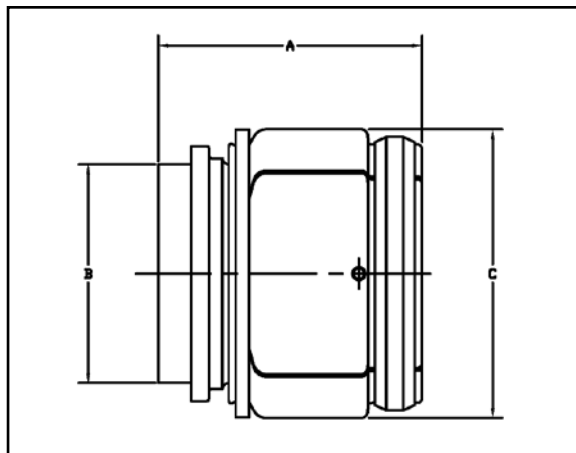


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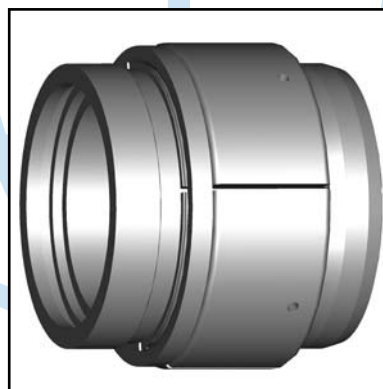
Telephone: 814-445-9671 • FAX: 814-443-1453
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COUPLING • Drawing 805-4472628

Hose Coupling, Male Clamp End (190418)
 Hose Coupling, Female Clamp End (190419)



190418-4-64
 MALE



190419-4-64
 FEMALE

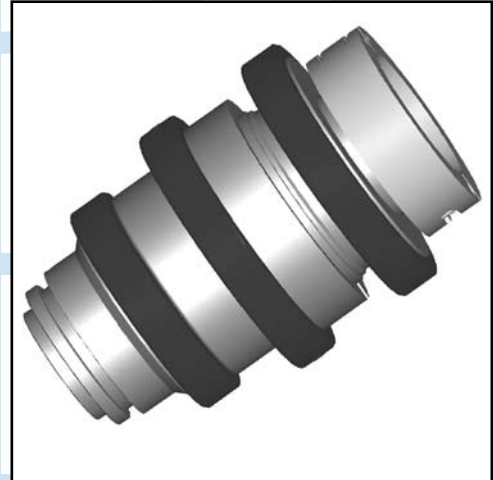
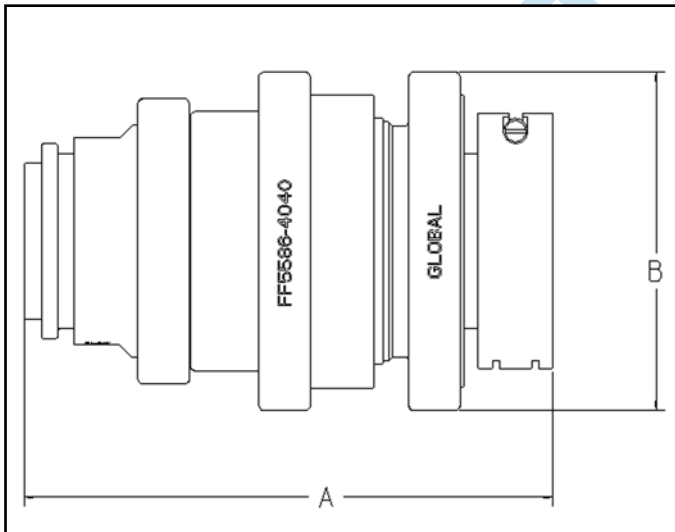
Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
190418-2-1/2-40	4.66"	3.00"	3.96"	2.5"	unassigned
190418-4-64	4.86"	4.12"	5.50"	4"	4730-00-007-2194
190418-6-96	6.56"	6.25"	7.82"	6"	4730-00-793-9811
190418-7-7	7.56"	7.25"	9.00"	7"	4730-00-793-9810
190419-2-1/2-40	4.61"	2.06"	3.96"	2.5"	unassigned
190419-4-64	4.80"	3.70"	5.50"	4"	4730-00-007-2195
190419-6-96	6.41"	5.80"	7.85"	6"	4730-00-793-9808
190419-7-7	7.41"	6.70"	9.00"	7"	4730-00-793-9809



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2.5" Auto Disconnect



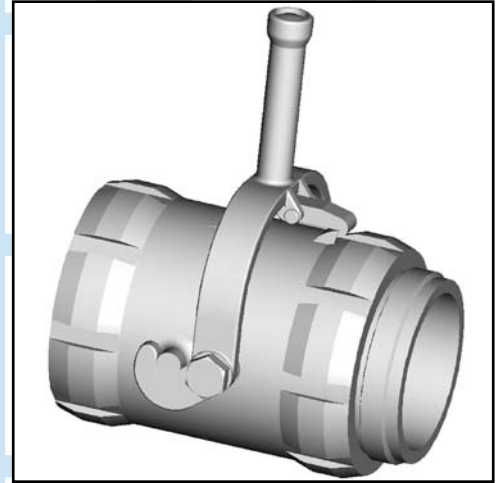
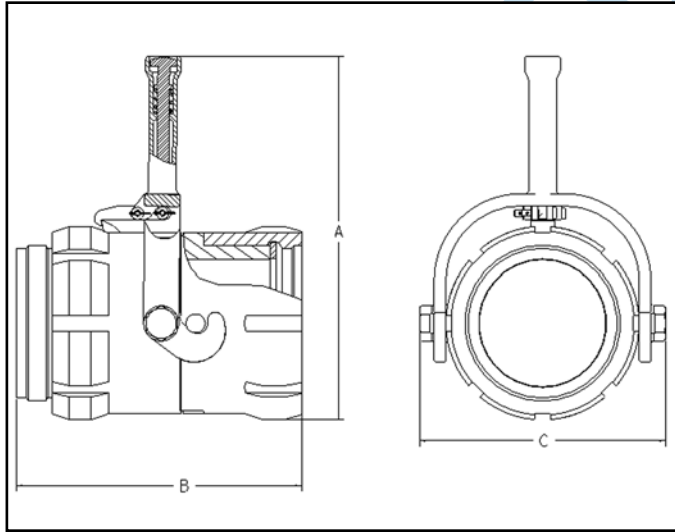
Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
FF5586-4040	10.21"	6.53"	-	2.5"	4730-01-367-2004



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Quick Disconnect



FF5186-6464 Shown

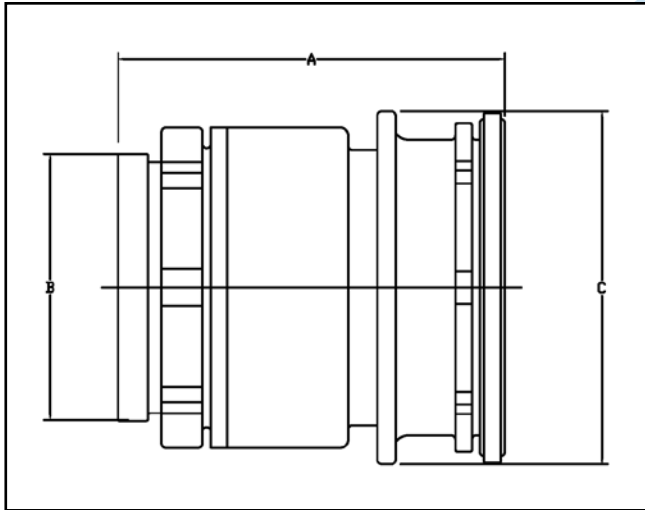
Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
FF5186-4040	10.00"	5.91"	5.44"	2.5"	4730-01-369-4603
FF5186-6464	11.56"	9.12"	8.06"	4"	4730-00-369-4604



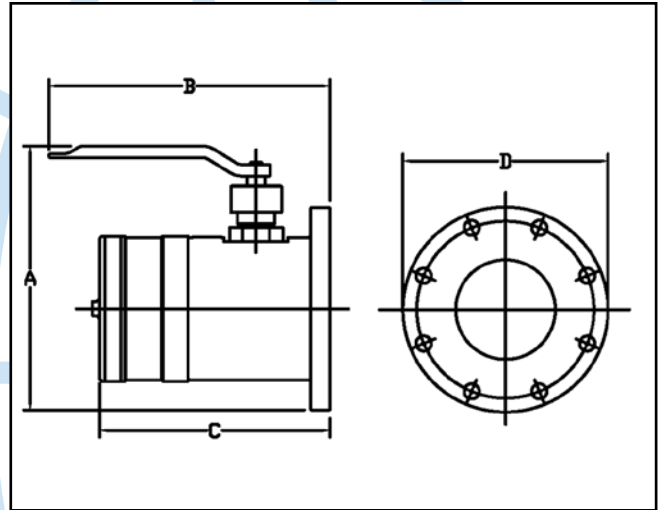
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Robb Coupling, Robb Coupling Body Assembly



504093



841597-ME-CAP Shown



841597-FE

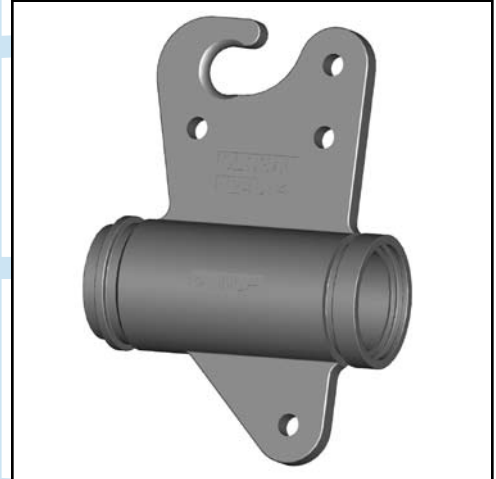
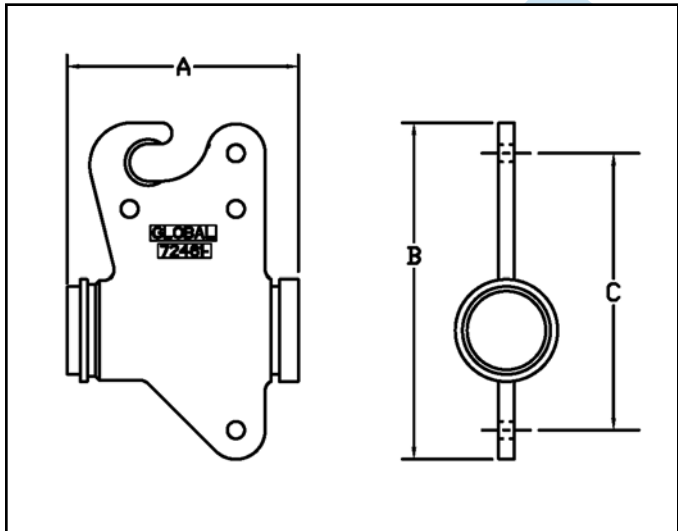
Part Number	Dimensions				I.P.S. Size	NSN
	A	B	C	D		
504093-5-7	11.75"	7.10"	10.75"	–	6"	4730-00-640-1507
504093-4-7	11.75"	8.10"	10.75"	–	7"	4730-00-145-7362
115-504091-7	14.35"	15.25"	12.50"	11.00"	7"	4730-00-640-1508
841597-ME-CAP	14.35"	15.25"	12.50"	11.00"	7"	4730-00-640-1508



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Riding Line Flow Through, Aluminum



72461-4 Shown

Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
72461-2-1/2D	10.83"	12.38"	9.62"	2.5"	4730-01-105-9486
72461-4D	10.88"	15.75"	13.00"	4"	4730-01-291-6648
72461-6D	11.50"	16.73"	13.97"	6"	4730-00-370-9484
72461-7D	11.50"	17.69"	14.92"	7"	4730-01-022-3966

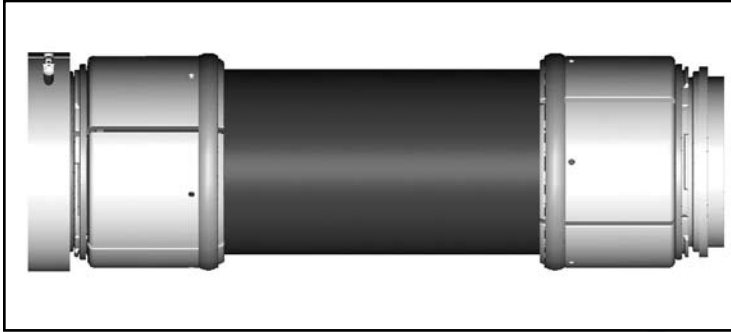


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HOSE ASSEMBLY

Hose Assembly



NOTE: other lengths are available

Assembly Part Number	Size	Assembly Length	Fitting	Hose	Fitting	Clamp Assembly	O-Ring
FG1226TTT0480	2-1/2"	4'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226TTT0600	2-1/2"	5'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226TTT1200	2-1/2"	10'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226TTT2800	2-1/2"	15'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226TTT2760	2-1/2"	23'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226TTT4200	2 1/2"	35'	190418-2-1/2-40	22240-2.5	190419-2-1/2-40	M24356-25-SC	22019-234
FG1226VVV0480	4"	4'	190418-4-64	22240-4.0	190419-4-64	M24356-40-SC	22019-346
FG1226VVV1080	4"	9'	190418-4-64	22240-4.0	190419-4-64	M24356-40-SC	22019-346
FG1226VVV2640	4"	22'	190418-4-64	22240-4.0	190419-4-64	M24356-40-SC	22019-346
FG1226VVV4200	4"	35'	190418-4-64	22240-4.0	190419-4-64	M24356-40-SC	22019-346
FG1226YYY0480	6"	4'	190418-6-96	22240-6.0	190419-6-96	M24356-60-SC	22019-438
FG1226YYY1080	6"	9'	190418-6-96	22240-6.0	190419-6-96	M24356-60-SC	22019-438
FG1226YYY2640	6"	22'	190418-6-96	22240-6.0	190419-6-96	M24356-60-SC	22019-438
FG1226YYY4200	6"	35'	190418-6-96	22240-6.0	190419-6-96	M24356-60-SC	22019-438
FG1226ZZZ0480	7"	4'	190418-7-7	22240-7.0	190419-7-7	M24356-70-SC	22019-442
FG1226ZZZ1080	7"	9'	190418-7-7	22240-7.0	190419-7-7	M24356-70-SC	22019-442
FG1226ZZZ2640	7"	22'	190418-7-7	22240-7.0	190419-7-7	M24356-70-SC	22019-442
FG1226ZZZ4200	7"	35'	190418-7-7	22240-7.0	190419-7-7	M24356-70-SC	22019-442

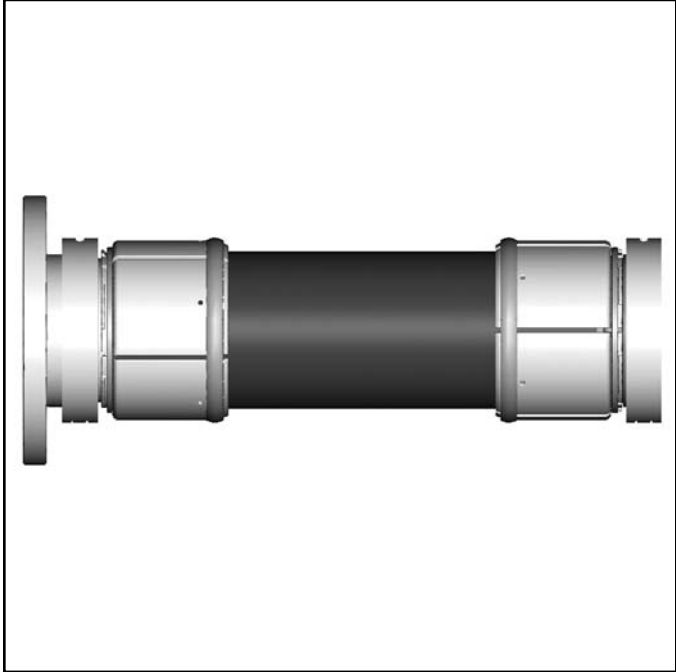


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HOSE ASSEMBLY

Hose Assembly Receiver: Aluminum Flange, Steel Flange and Without Flange



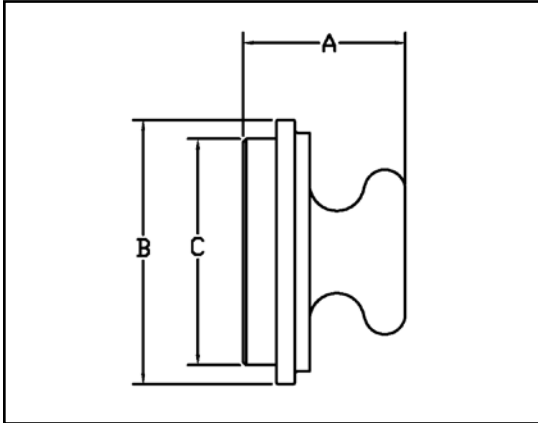
Assembly Part Number	Fitting	Hose	Fitting	Clamp Assembly	Flange	Flange Material	O-Ring	NSN
2213794-A	190418-7-7	M24565-70-H	190418-7-7	M24356-70-SC	72078-8-7D	aluminum	22019-442	unassigned
2213794-S	190418-7-7	M24565-70-H	190418-7-7	M24356-70-SC	2213794-04	steel	22019-442	4720-00-933-1454
M24365-70-H	190418-7-7	M24565-70-H	190418-7-7	M24356-70-SC	none	-	22019-442	unassigned



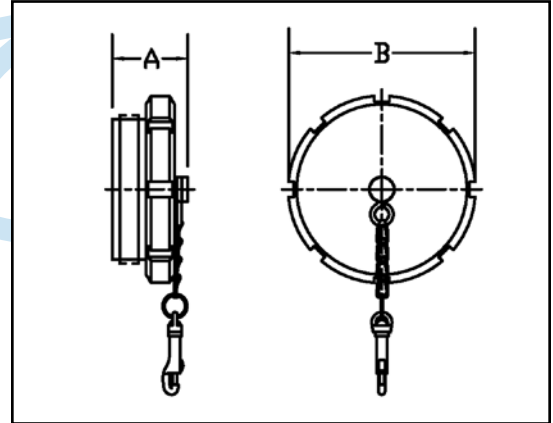
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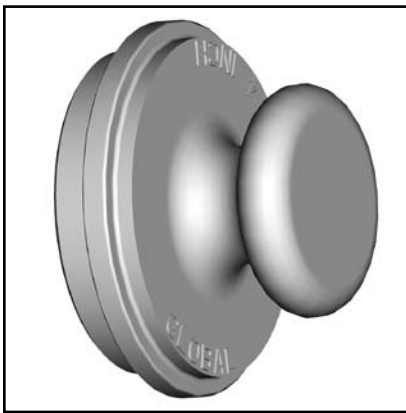
PLUG • Drawings 805-4472661, 803-2260817 and 805-4472657



222025 Plug, Split Clamp, Aluminum



FF9289, 6821683-B Plug, Male Hose Thread with Snap Hook, Bronze



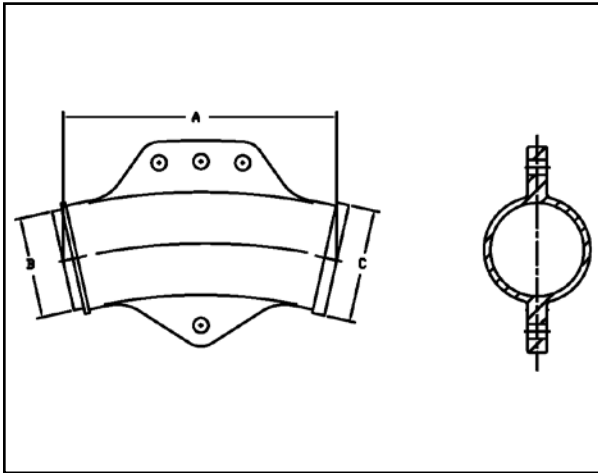
Part Number	Dimensions			Split Clamp	Hose Thread	NSN
	A	B	C			
222025-40D	2.60"	3.75"	3.00"	2.5"	—	4730-010418-4150
222025-64D	2.96"	4.81"	4.12"	4"	—	4730-00-009-5179
222025-96D	3.06"	7.10"	6.25"	6"	—	4730-00-370-9485
222025-7D	3.06"	8.10"	7.25"	7"	—	4730-01-023-2705
FF9289-40-175	2.31"	4.00"	—	—	2.5"	4210-00-240-5537
FF9289-64-175	2.51"	6.19"	—	—	4"	4210-00-240-5541
6821683-B	4.12"	2.32"	—	—	M80	unassigned



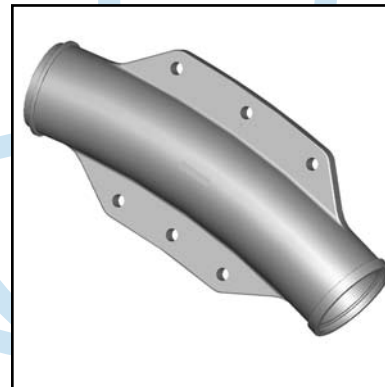
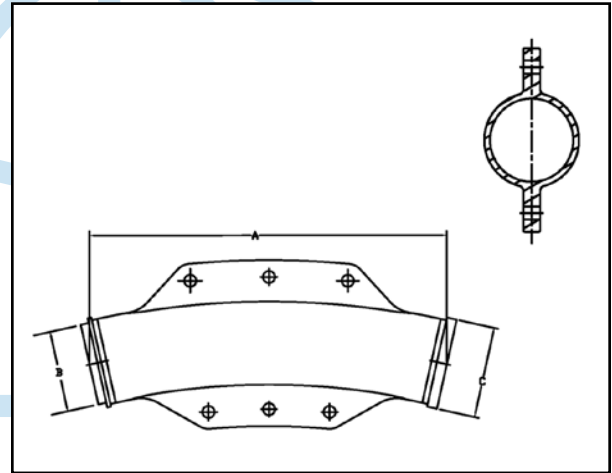
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Flow Through Saddles, Single or Double Hose Type A, Aluminum



Type B—Flow Through Saddle, Upper Rig



Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
Type A – Flow Through Saddles, Single or Double Hose					
72430-2-1/2D	11.73"	3.00"	3.75"	2.5"	4730-01-134-7821
72430-4D	19.34"	4.12"	4.81	4"	4730-01-106-8915
72430-6D	18.74"	6.25"	7.10"	6"	4730-00-900-8534
72430-7D	18.91"	7.25"	8.10"	7"	4730-00-900-8535
Type B – Flow Through Saddle					
72460-7D	31.74"	7.25"	8.10"	7"	4730-00-900-8536

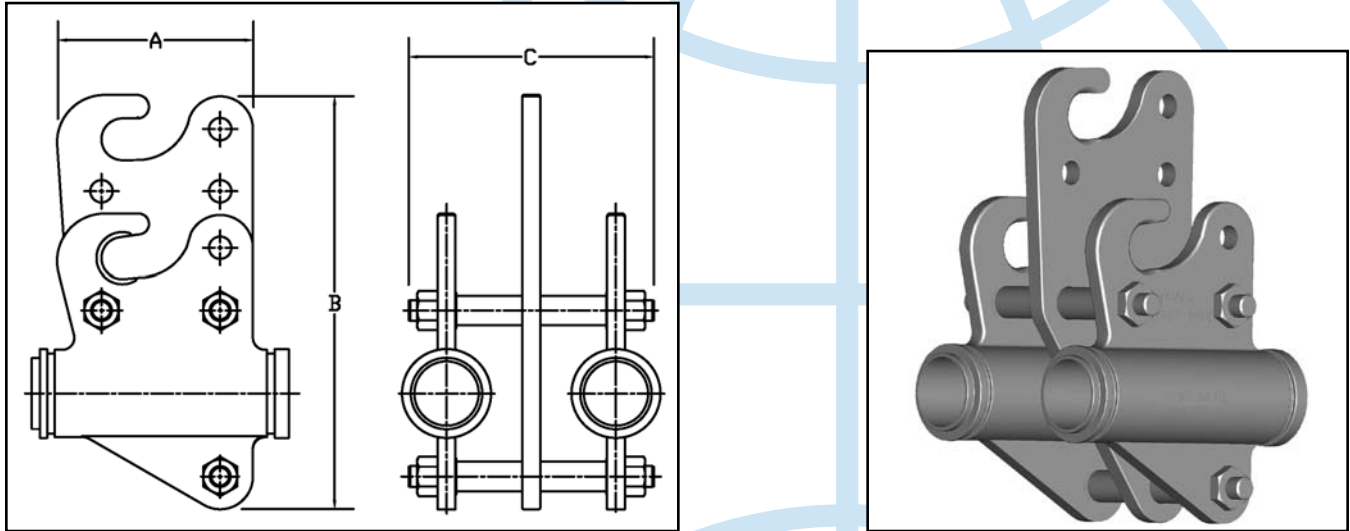


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SUPPORT, FLOW THROUGH RIDING LINE

Double Rig



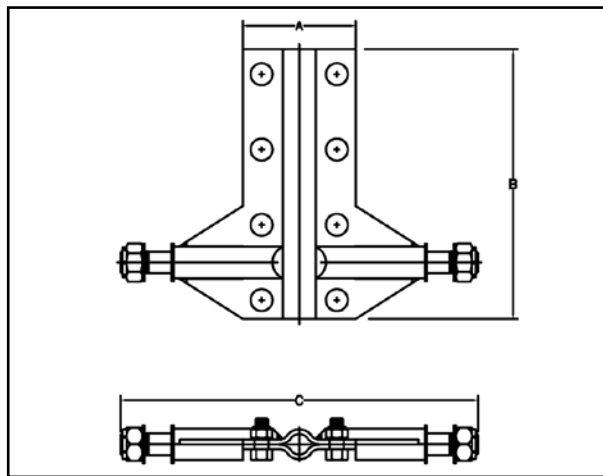
Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
FF9521-01	8.25"	17.44"	10.33"	2.5"	unassigned



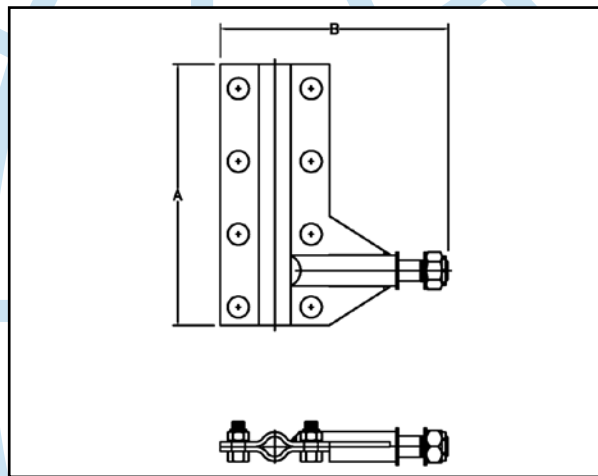
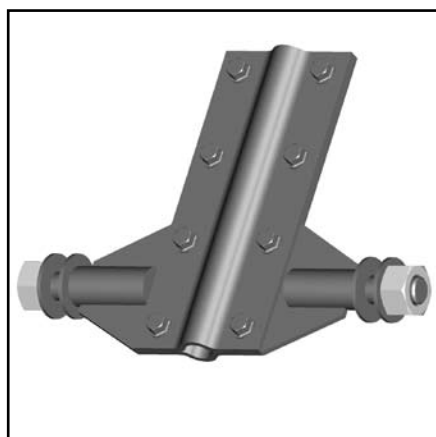
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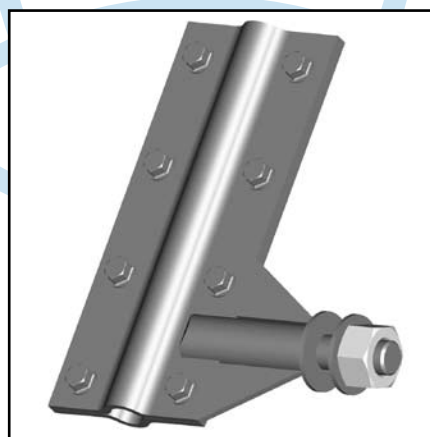
Double 2.5" Hose Rig (FF9566-11)
Single 2.5" Hose Rig (FF9566-01)



FF9566-11



FF9566-01



Part Number	Dimensions			I.P.S. Size	NSN
	A	B	C		
FF9566-11	4.50"	10.75"	14.25"	2.5"	4730-01-682-7206
FF9566-01	10.75"	9.38"	-	2.5"	4730-01-682-7203



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TOOL

Assembly Tool Kits FF759 and 1607

The FF759 and 1607 Assembly Tool Kits contain the assembly tool and accessory items necessary to assemble banded segment socket fittings on marine refueling hose. The FF759 Kit contains tooling for assembly of 4 segment fittings, sizes 2 1/2" and 4".

The 1607 Kit is designed for 5 segment fittings in sizes 6" and 7". Component parts for both kits may be ordered individually as needed.



FF759 Kit – 2 1/2" and 4" Hose Fittings

Part Number	Description	Quantity
–	Assembly Tool	1

Assembly Tool Components

1583-3	Frame	4
1583-4	Bolt	4
1583-5	Bearing Screw	8
1583-6	Bolt Guide	4
1583-7	Handle	4
1583-8	Bolt Pin	4
21002-43	Retaining Ring	8

Additional Kit Components

1591-1-40	Adapter Pad (2 1/2")	4
1591-1-64	Adapter Pad (4")	4
1583-2	Locating Pin	8
1583-9	Pliers, Retaining Ring	1
222019	Box	1
21002-43	Retaining Box	8

1607 Kit – 6" and 7" Hose Fittings

Part Number	Description	Quantity
1591-7	Assembly Tool	1

Assembly Tool Components

1591-3	Frame	5
1583-4	Bolt	5
1583-5	Bearing Screw	10
1583-6	Bolt Guide	5
1583-7	Handle	5
1583-8	Bolt Pin	5
21002-43	Retaining Ring	10

Additional Kit Components

1591-1-96	Adapter Pad	5
1591-2	Locating Pin	10
1583-9	Pliers, Retaining Ring	1
222021	Box	1
21002-43	Retaining Ring	10

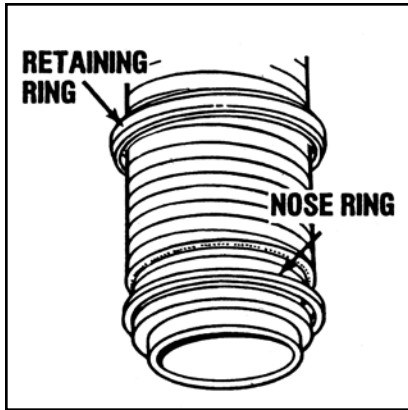


Underway Replenishment Systems
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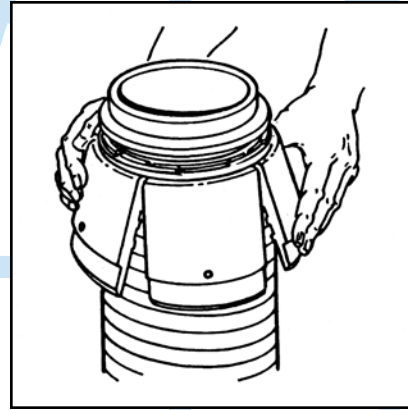
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TOOL

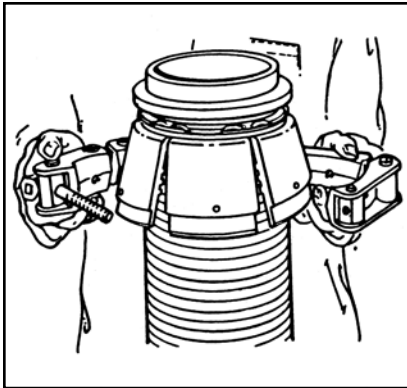
ASSEMBLY INSTRUCTIONS: Assembly Tool Kits for Band Type Segmented Socket Fittings FF759 and 1607



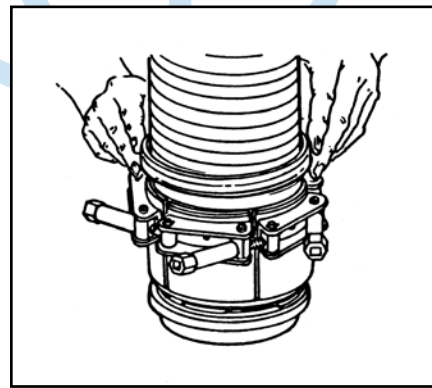
Step 1.
Slip the flat retaining ring on the hose. Place the nose ring over the nipple and insert the nipple into the hose until it bottoms on the nipple shoulder.



Step 2.
Hook the segments under the nose ring and space them evenly around the hose.



Step 3.
Open the assembly tool and attach it over the segments by inserting the locating pins into the hole in each segment. Adapter pads are required when assembling 2 1/2", 4" and 6" sizes. Although the FF759 Kit is a 4 segment tool, the assembly procedures are the same as the 1607 Kit.



Step 4.
Wrench tighten the assembly tool sections uniformly around the fitting. Slide the retaining ring over the compressed segments. Loosen the assembly tool and remove. Use the reverse procedure to remove fittings from hose.



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