Hydraulic & Pipe Fittings



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HPF1000



Visual Index



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Visual Index



F-ARC SAE Straight

Swivel Adapter

Page 30

F-M-UAD Male Union

Swivel Adapter Page 30

F-APC Female

Connector Page 29

Elbow Swivel Adapter

Page 30

Union Elbow Swivel

Adapter Page 31

Thread Male Union

Adapter Page 31

SAE Adjustable Straight

Thread "O"-Ring Type End Page 35

SVILING

Visual Index

JIC 37° Flare Male

Bulkhead End Page 35



Female JIC 37° Swivel

End Page 35

JIC 37° Flare Male End

Page 35

F-3105 / F-3100 • Male Connector

Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	Overall Length
F-3105-2-2	F-3100-2-2	1/8"	1/8"	1-13/32"
F-3105-3-2	F-3100-3-2	3/16"	1/8"	1-1/2"
F-3105-4-2	F-3100-4-2	1/4"	1/8"	1-9/16"
F-3105-4-4	F-3100-4-4	1/4"	1/4"	1-25/32
F-3105-4-6	F-3100-4-6	1/4"	3/8"	1-13/16"
F-3105-5-2	F-3100-5-2	5/16"	1/8"	1-5/8"
F-3105-5-4	F-3100-5-4	5/16"	1/4"	1-13/16"
F-3105-6-4	F-3100-6-4	3/8"	1/4"	1-29/32"
F-3105-6-2	F-3100-6-2	3/8"	1/8"	1-23/32"
F-3105-6-6	F-3100-6-6	3/8"	3/8"	1-29/32"
F-3105-6-8	F-3100-6-8	3/8"	1/2"	2-3/32"
F-3105-8-6	F-3100-8-6	1/2"	3/8"	2-1/16"
F-3105-8-4	F-3100-8-4	1/2"	1/4"	2-1/16"
F-3105-8-8	F-3100-8-8	1/2"	1/2"	2-9/32"
F-3105-8-12	F-3100-8-12	1/2"	3/4"	2-9/32"
F-3105-10-8	F-3100-10-8	5/8"	1/2"	2-17/32"
F-3105-10-6	F-3100-10-6	5/8"	3/8"	2-11/32"
F-3105-10-12	F-3100-10-12	5/8"	3/4"	2-9/16"
F-3105-12-12	F-3100-12-12	3/4"	3/4"	2-21/32"
F-3105-12-6	F-3100-12-6	3/4"	3/8"	2-15/32"
F-3105-12-8	F-3100-12-8	3/4"	1/2"	2-21/32"
F-3105-12-16	F-3100-12-16	3/4"	1"	2-27/32"
F-3105-14-12	F-3100-14-12	7/8"	3/4"	2-13/16"
F-3105-14-16	F-3100-14-16	7/8"	1"	3"
F-3105-16-16	F-3100-16-16	1"	1"	3-1/16"
F-3105-16-12	F-3100-16-12	1"	3/4"	2-7/8"
F-3105-16-20	F-3100-16-20	1"	1-1/4"	3-5/32"
F-3105-20-20	F-3100-20-20	1-1/4"	1-1/4"	3-5/16"
F-3105-20-16	F-3100-20-16	1-1/4"	1"	3-9/32"
F-3105-20-24	F-3100-20-24	1-1/4"	1-1/2"	3-11/32"
F-3105-24-24	F-3100-24-24	1-1/2"	1-1/2"	3-25/32"
F-3105-32-32	F-3100-32-32	2"	2"	4-1/4"
F-3105-32-24	F-3100-32-24	2"	1-1/2"	4-3/16"

F-3105-L / F-3100-L • Long Male Connector

Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	Overall Length
F-3105L-4-2	F-3100L-4-2	1/4"	1/8"	2-3/16"
F-3105L-5-2	F-3100L-5-2	5/16"	1/8"	2-11/32"
F-3105L-6-4	F-3100L-6-4	3/8"	1/4"	2-23/32"
F-3105L-8-6	F-3100L-8-6	1/2"	3/8"	3-9/32"
F-3105L-10-8	F-3100L-10-8	5/8"	1/2"	3-3/4"
F-3105L-12-12	F-3100L-12-12	3/4"	3/4"	4-3/32"
F-3105L-14-12	F-3100L-14-12	7/8"	3/4"	4-15/32"
F-3105L-16-16	F-3100L-16-16	1"	1"	4-25/32"
F-3105L-20-20	F-3100L-20-20	1-1/4"	1-1/4"	5-11/32"

F-3105-LL / F-3100-LL • Extra Long Male Connector

	Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	Overall Length
	F-3105LL-4-2	F-3100LL-4-2	1/4"	1/8"	2-15/16"
P	F-3105LL-5-2	F-3100LL-5-2	5/16"	1/8"	3-7/32"
а	F-3105LL-6-4	F-3100LL-6-4	3/8"	1/4"	3-23/32"
	F-3105LL-8-6	F-3100LL-8-6	1/2"	3/8"	4-17/32"
g	F-3105LL-10-8	F-3100LL-10-8	5/8"	1/2"	3-3/4"
е	F-3105LL-12-12	F-3100LL-12-12	3/4"	3/4"	4-3/32"
	F-3105LL-14-12	F-3100LL-14-12	7/8"	3/4"	4-15/32"
	F-3105LL-16-16	F-3100LL-16-16	1"	1"	6-17/32"
4	F-3105LL-20-20	F-3100LL-20-20	1-1/4"	1-1/4"	7-11/32"

F-3105 / F-3100 Male Connector Flare Tube End-Male Pipe End



F-3105-L / F-3100-L Long Male Connector Flare Tube End-Male Pipe End

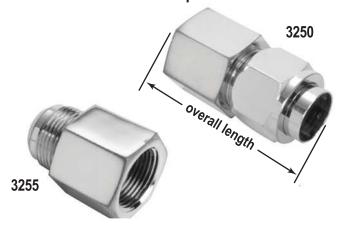


F-3105-LL / F-3100-LL Extra Long Male Connector Flare Tube End-Male Pipe End

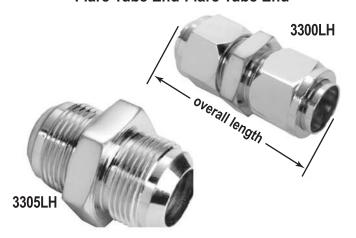




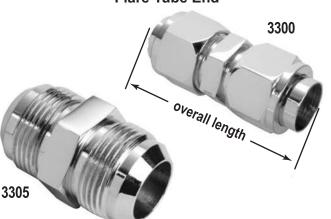
F-3255 / F-3250 Female Connector-Flare Tube End-Female Pipe End



F-3305-LH / F-3300-LH Large Hex Union Flare Tube End-Flare Tube End



F-3305 / F-3300 Union Flare Tube End-Flare Tube End



F-3255 / F-3250 • Female Connector

Body Only Part #	Complete Assy. Part #	Tube O.D.	Female Pipe Thread	Overall Length
F-3255-2-2	F-3250-2-2	1/8"	1/8"	1-13/32"
F-3255-3-2	F-3250-3-2	3/16"	1/8"	1-7/16"
F-3255-4-2	F-3250-4-2	1/4"	1/8	1-9/16"
F-3255-4-4	F-3250-4-4	1/4"	1/4"	1-3/4"
F-3255-5-2	F-3250-5-2	5/16"	1/8"	1-19/32"
F-3255-5-4	F-3250-5-4	5/16"	1/4"	1-3/4"
F-3255-6-4	F-3250-6-4	3/8"	1/4"	1-25/32"
F-3255-6-2	F-3250-6-2	3/8"	1/8"	1-21/32"
F-3255-6-6	F-3250-6-6	3/8"	3/8"	1-7/8"
F-3255-8-6	F-3250-8-6	1/2"	3/8"	2-1/16"
F-3255-8-4	F-3250-8-4	1/2"	1/4"	2-1/16"
F-3255-8-8	F-3250-8-8	1/2"	1/2"	2-9/32"
F-3255-10-8	F-3250-10-8	5/8"	1/2"	2-7/16"
F-3255-10-6	F-3250-10-6	5/8"	3/8"	2-1/4"
F-3255-12-12	F-3250-12-12	3/4"	3/4"	2-19/32"
F-3255-12-8	F-3250-12-8	3/4"	1/2"	2-17/32"
F-3255-14-12	F-3250-14-12	7/8"	3/4"	2-23/32"
F-3255-16-16	F-3250-16-16	1"	1"	3"
F-3255-16-12	F-3250-16-12	1"	3/4"	2-13/16"
F-3255-20-20	F-3250-20-20	1-1/4"	1-1/4"	3-3/16"
F-3255-24-24	F-3250-24-24	1-1/2"	1-1/2"	3-17/32"
F-3255-32-32	F-3250-32-32	2"	2"	3-29/32"

F-3305LH / F-3300LH • Large Hex Union

Body Only Part #	Complete Assy. Part #	Tube O.D.	Body Hex	Overall Length
F-3305LH-4	F-3300LH-4	1/4"	11/16"	2-1/8"
F-3305LH-5	F-3300LH-5	5/16"	3/4"	2-3/16"
F-3305LH-6	F-3300LH-6	3/8"	13/16"	2-11/32"
F-3305LH-8	F-3300LH-8	1/2"	1"	2-11/16"
F-3305LH-10	F-3300LH-10	5/8"	1-1/8"	3-3/16"
F-3305LH-12	F-3300LH-12	3/4"	1-3/8"	3-3/8"
F-3305LH-16	F-3300LH-16	1"	1-5/8"	3-25/32"
F-3305LH-20	F-3300LH-20	1-1/4"	1-7/8"	4-1/8"

F-3305 / F-3300 • Union

Body Only Part #	Complete Assy. Part #	Tube O.D.	Overall Length
F-3305-4-4	F-3300-4-4	1/4"	2-1/8"
F-3305-5-5	F-3300-5-5	5/16"	2-3/16"
F-3305-6-6	F-3300-6-6	3/8"	2-11/32"
F-3305-8-8	F-3300-8-8	1/2"	2-11/16"
F-3305-10-10	F-3300-10-10	5/8"	3-3/16"
F-3305-12-12	F-3300-12-12	3/4"	3-3/8"
F-3305-14-14	F-3300-14-14	7/8"	3-5/8"
F-3305-16-16	F-3300-16-16	1"	3-25/32"
F-3305-20-20	F-3300-20-20	1-1/4"	4-1/8"
F-3305-24-24	F-3300-24-24	1-1/2"	4-15/16"
F-3305-32-32	F-3300-32-32	2"	5-5/8"

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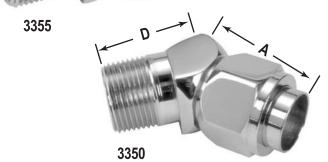
37° Flare Tube Fittings TAPERED PIPE THREAD

F-3355 / F-3350 • Male 45° Elbow

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Complete Assy. Part #	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
F-3350-2-2	1/8"	1/8"	31/32"	17/32"
F-3350-3-2	3/16"	1/8"	1-1/32"	17/32"
F-3350-4-2	1/4"	1/8"	1-3/32"	5/8"
F-3350-4-4	1/4"	1/4"	1-5/32"	27/32"
F-3350-5-2	5/16"	1/8"	1-5/32"	5/8"
F-3350-5-4	5/16"	1/4"	1-7/32"	27/32"
F-3350-6-4	3/8"	1/4"	1-9/32"	27/32"
F-3350-6-2	3/8"	1/8"	1-9/32"	11/16"
F-3350-6-6	3/8"	3/8"	1-3/8"	15/16"
F-3350-6-8	3/8"	1/2"	1-1/2"	1-5/32"
F-3350-8-6	1/2"	3/8"	1-1/2"	15/16"
F-3350-8-4	1/2"	1/4"	1-1/2"	15/16"
F-3350-8-8	1/2"	1/2"	1-9/16"	1-5/32"
F-3350-8-12	1/2"	3/4"	1-5/8"	1-3/16"
F-3350-10-8	5/8"	1/2"	1-23/32"	1-5/32"
F-3350-10-6	5/8"	3/8"	1-23/32"	31/32"
F-3350-10-12	5/8"	3/4"	1-25/32"	1-3/16"
F-3350-12-12	3/4"	3/4"	1-7/8"	1-3/16"
F-3350-12-8	3/4"	1/2"	1-7/8"	1-7/32"
F-3350-14-12	7/8"	3/4"	2-3/32"	1-1/4"
F-3350-16-16	1"	1"	2-7/32"	1-15/32"
F-3350-16-12	1"	3/4"	2-7/32"	1-1/4"
F-3350-20-20	1-1/4"	1-1/4"	2-7/16"	1-21/32"
F-3350-24-24	1-1/2"	1-1/2"	2-7/8"	1-3/4"
F-3350-32-32	2"	2"	3-11/32"	2-3/32"
	Assy. Part # F-3350-2-2 F-3350-3-2 F-3350-4-4 F-3350-5-2 F-3350-5-4 F-3350-6-4 F-3350-6-6 F-3350-6-6 F-3350-8-6 F-3350-8-4 F-3350-8-12 F-3350-10-12 F-3350-10-12 F-3350-12-12 F-3350-12-12 F-3350-12-12 F-3350-16-16 F-3350-16-16 F-3350-16-16 F-3350-16-12	Assy. Part # O.D. F-3350-2-2 1/8" F-3350-3-2 3/16" F-3350-4-2 1/4" F-3350-4-4 1/4" F-3350-5-2 5/16" F-3350-5-4 5/16" F-3350-6-4 3/8" F-3350-6-2 3/8" F-3350-6-8 3/8" F-3350-8-8 1/2" F-3350-8-8 1/2" F-3350-8-12 1/2" F-3350-10-8 5/8" F-3350-10-12 5/8" F-3350-10-12 7/8" F-3350-12-12 3/4" F-3350-14-12 7/8" F-3350-16-16 1" F-3350-16-12 1" F-3350-12-2 1/14" F-3350-16-12 1" F-3350-16-12 1" F-3350-16-12 1" F-3350-16-12 1" F-3350-16-12 1" F-3350-16-12 1"	Assy. Part # O.D. Thread F-3350-2-2 1/8" 1/8" F-3350-3-2 3/16" 1/8" F-3350-4-2 1/4" 1/8" F-3350-4-4 1/4" 1/4" F-3350-5-2 5/16" 1/8" F-3350-5-4 5/16" 1/4" F-3350-6-4 3/8" 1/4" F-3350-6-3 3/8" 1/8" F-3350-6-6 3/8" 3/8" F-3350-6-8 3/8" 1/2" F-3350-8-6 1/2" 3/8" F-3350-8-8 1/2" 1/4" F-3350-8-8 1/2" 1/2" F-3350-10-8 5/8" 1/2" F-3350-10-10 5/8" 3/8" F-3350-10-12 5/8" 3/4" F-3350-12-12 3/4" 3/4" F-3350-12-12 3/4" 1/2" F-3350-16-10 1" 1" F-3350-12-8 3/4" 1/2" F-3350-12-8 3/4" 1/2" F-335	Assy. Part # O.D. Thread Leg F-3350-2-2 1/8" 1/8" 31/32" F-3350-3-2 3/16" 1/8" 1-1/32" F-3350-4-2 1/4" 1/8" 1-3/32" F-3350-4-4 1/4" 1/4" 1-5/32" F-3350-5-2 5/16" 1/8" 1-5/32" F-3350-5-4 5/16" 1/4" 1-7/32" F-3350-6-4 3/8" 1/4" 1-9/32" F-3350-6-6 3/8" 1/8" 1-9/32" F-3350-6-6 3/8" 1/8" 1-9/32" F-3350-6-6 3/8" 1/2" 1-1/2" F-3350-8-6 1/2" 3/8" 1-1/2" F-3350-8-8 1/2" 1/4" 1-1/2" F-3350-8-8 1/2" 1/2" 1-9/16" F-3350-10-8 5/8" 1/2" 1-23/32" F-3350-10-8 5/8" 1/2" 1-23/32" F-3350-10-8 5/8" 3/4" 1-25/32" F-3350-10-8 5/8"

F-3355 / F-3350 Male 45° Elbow Flare Tube End-Male Pipe End (Example of Part No: F-3350-12 for 3/4" O.D. Tubing)





F-3405 / F-400 • Male Elbow

Body Only	Complete	Tube	Male Pipe	"A" Tube	"D" Male
Part #	Assy. Part #	O.D.	Thread	Leg	Pipe Leg
F-3405-2-2	F-3400-2-2	1/8"	1/8"	1-3/32"	23/32"
F-3405-3-2	F-3400-3-2	3/16"	1/8"	1-5/32"	23/32"
F-3405-4-2	F-3400-4-2	1/4"	1/8"	1-9/32"	25/32"
F-3405-4-4	F-3400-4-4	1/4"	1/4"	1-13/32"	1-3/32"
F-3405-4-6	F-3400-4-6	1/4"	3/8"	1-15/32"	1-7/32"
F-3405-5-2	F-3400-5-2	5/16"	1/8"	1-3/8"	25/32"
F-3405-5-4	F-3400-5-4	5/16"	1/4"	1-7/16"	1-3/32"
F-3405-6-4	F-3400-6-4	3/8"	1/4"	1-17/32"	1-3/32"
F-3405-6-2	F-3400-6-2	3/8"	1/8"	1-17/32"	7/8"
F-3405-6-6	F-3400-6-6	3/8"	3/8"	1-21/32"	1-7/32"
F-3405-6-8	F-3400-6-8	3/8"	1/2"	1-23/32"	1-15/32"
F-3405-8-6	F-3400-8-6	1/2"	3/8"	1-25/32"	1-7/32"
F-3405-8-4	F-3400-8-4	1/2"	1/4"	1-25/32"	1-5/32"
F-3405-8-8	F-3400-8-8	1/2"	1/2"	1-15/16"	1-15/32"
F-3405-8-12	F-3400-8-12	1/2"	3/4"	2-1/32"	1-9/16"
F-3405-10-8	F-3400-10-8	5/8"	1/2"	2-3/32"	1-15/32"
F-3405-10-6	F-3400-10-6	5/8"	3/8"	2-3/32"	1-3/8"
F-3405-10-12	F-3400-10-12	5/8"	3/4"	2-7/32"	1-19/32"
F-3405-12-12	F-3400-12-12	3/4"	3/4"	2-1/4"	1-19/32"
F-3405-12-8	F-3400-12-8	3/4"	1/2"	2-1/4"	1-9/16"
F-3405-12-16	F-3400-12-16	3/4"	1"	2-7/16"	1-31/32"
F-3405-14-12	F-3400-14-12	7/8"	3/4"	2-7/16"	1-11/16"
F-3405-16-16	F-3400-16-16	1"	1"	2-19/32"	1-31/32"
F-3405-16-12	F-3400-16-12	1"	3/4"	2-19/32"	1-23/32"
F-3405-16-20	F-3400-16-20	1"	1-1/4"	2-15/16"	2-3/8"
F-3405-20-20	F-3400-20-20	1-1/4"	1-1/4"	2-29/32"	2-3/8"
F-3405-20-16	F-3400-20-16	1-1/4"	1"	2-29/32"	2-3/8"
F-3405-20-24	F-3400-20-24	1-1/4"	1-1/2"	3-1/32"	2-5/8"
F-3405-24-24	F-3400-24-24	1-1/2"	1-1/2"	3-7/16"	2-5/8"
F-3405-24-20	F-3400-24-20	1-1/2"	1-1/4"	3-7/16"	2-5/8"
F-3405-32-32	F-3400-32-32	2"	2"	4-3/16"	3"
F-3405-32-24	F-3400-32-24	2"	1-1/2"	4-3/16"	3"

F-3405 / F-3400 Male Elbow Flare Tube End-Male Pipe End (Example of Part No: F-3400-12 for 3/4" O.D. Tubing)







F-3405L / F-3400L Long Male Elbow Flare Tube End-Male Pipe End



F-3405-L / F-3400-L • Long Male Elbow

	Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
•	F-3405L-4-2	F-3400L-4-2	1/4"	1/8"	1-9/32"	1-3/16"
	F-3405L-4-4	F-3400L-4-4	1/4"	1/4"	1-13/32"	1-21/32"
	F-3405L-5-2	F-3400L-5-2	5/16"	1/8"	1-3/8"	1-7/32"
	F-3405L-5-4	F-3400L-5-4	5/16"	1/4"	1-17/16"	1-21/32"
	F-3405L-6-4	F-3400L-6-4	3/8"	1/4"	1-17/32"	1-21/32"
	F-3405L-6-6	F-3400L-6-6	3/8"	3/8"	1-21/32"	1-13/16"
	F-3405L-8-6	F-3400L-8-6	1/2"	3/8"	1-25/32"	1-13/16"
	F-3405L-8-8	F-3400L-8-8	1/2"	1/2"	1-15/16"	2-7/32"
	F-3405L-8-12	F-3400L-8-12	1/2"	3/4"	2-1/32"	2-15/32"
	F-3405L-10-8	F-3400L-10-8	5/8"	1/2"	2-3/32"	2-7/32"
	F-3405L-12-12	F-3400L-12-12	3/4"	3/4"	2-1/4"	2-15/32"
	F-3405L-14-12	F-3400L-14-12	7/8"	3/4"	2-7/16"	2-3/4"
	F-3405L-16-16	F-3400L-16-16	1"	1"	2-19/32"	3-1/16"
	F-3405L-20-20	F-3400L-20-20	1-1/4"	1-1/4"	2-29/32"	3-19/32"

F-3405LL / F-3400LL Extra Long Male Elbow Flare Tube End-Male Pipe End



F-3405-LL / F-3400-LL • Long Male Elbow

	Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
ľ	F-3405LL-4-2	F-3400LL-4-2	1/4"	1/8"	1-9/32"	1-19/32"
	F-3405LL-4-4	F-3400LL-4-4	1/4"	1/4"	1-13/32"	2-1/8"
	F-3405LL-5-2	F-3400LL-5-2	5/16"	1/8"	1-3/8"	1-21/32"
	F-3405LL-5-4	F-3400LL-5-4	5/16"	1/4"	1-7/16"	2-1/8"
	F-3405LL-6-4	F-3400LL-6-4	3/8"	1/4"	1-17/32"	2-1/8"
	F-3405LL-6-6	F-3400LL-6-6	3/8"	3/8"	1-21/32"	2-13/32"
	F-3405LL-8-6	F-3400LL-8-6	1/2"	3/8"	1-25/32"	2-13/32"
	F-3405LL-8-8	F-3400LL-8-8	1/2"	1/2"	1-15/16"	2-7/8"
	F-3405LL-10-8	F-3400LL-10-8	5/8"	1/2"	2-3/32"	2-7/8"
	F-3405LL-12-12	F-3400LL-12-12	3/4"	3/4"	2-1/4"	3-5/32"
	F-3405LL-14-12	F-3400LL-14-12	7/8"	3/4"	2-7/16"	3-3/8"
	F-3405LL-16-16	F-3400LL-16-16	1"	1"	2-19/32"	4-1/8"
Ċ	F-3405LL-20-20	F-3400LL-20-20	1-1/4"	1-1/4"	2-29/32"	4-13/16"

F-3405LLL / F-3400LLL Extra Long-Long Male Elbow Flare Tube End-Male Pipe End



F-3405-LLL / F-3400-LLL • Long Male Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
F-3405LLL-4-2	F-3400LLL-4-2	1/4"	1/8"	1-9/32"	2-7/16"
F-3405LLL-5-2	F-3400LLL-5-2	5/16"	1/8"	1-3/8"	2-15/32"
F-3405LLL-6-4	F-3400LLL-6-4	3/8"	1/4"	1-17/32"	3-5/32"
F-3405LLL-8-6	F-3400LLL-8-6	1/2"	3/8"	1-25/32"	3-19/32"
F-3405LLL-10-8	F-3400LLL-10-8	5/8"	1/2"	2-3/32"	4-5/16"
F-3405LLL-12-12	F-3400LLL-12-12	3/4"	3/4"	2-1/4"	4-23/32"
F-3405LLL-14-12	F-3400LLL-14-12	7/8"	3/4"	2-7/16"	5-1/16"
F-3405LLL-16-16	F-3400LLL-16-16	1"	1"	2-19/32"	6-5/16"
F-3405LLL-20-20	F-3400LLL-20-20	1-1/4"	1-1/4"	2-29/32"	7-1/4"

Note: 3411LL Elbows will turn above 3400 Elbows and 3400LLL Elbows will turn above 3400LL Elbows.

F-3455 / F-3450 • Female Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Female Pip	e "A" Tube ' Leg	"D" Female Pipe Leg
F-3455-4-2	F-3450-4-2	1/4"	1/8"	1-7/16"	21/32"
F-3455-4-4	F-3450-4-4	1/4"	1/4"	1-9/16"	29/32"
F-3455-5-2	F-3450-5-2	5/16"	1/8"	1-15/32"	21/32"
F-3455-5-4	F-3450-5-4	5/16"	1/4"	1-19/32"	29/32"
F-3455-6-4	F-3450-6-4	3/8"	1/4"	1-11/16"	29/32"
F-3455-6-2	F-3450-6-2	3/8"	1/8"	1-17/32"	21/32"
F-3455-6-6	F-3450-6-6	3/8"	3/8"	1-25/32"	1"
F-3455-8-6	F-3450-8-6	1/2"	3/8"	1-15/16"	1"
F-3455-8-4	F-3450-8-4	1/2"	1/4"	1-27/32"	29/32"
F-3455-8-8	F-3450-8-8	1/2"	1/2"	1-31/32"	1-1/4"
F-3455-10-8	F-3450-10-8	5/8"	1/2"	2-1/4"	1-1/4"
F-3455-10-6	F-3450-10-6	5/8"	3/8"	2-5/32"	1"
F-3455-12-12	F-3450-12-12	3/4"	3/4"	2-15/32"	1-11/32"
F-3455-12-8	F-3450-12-8	3/4"	1/2"	2-1/4"	1-1/4"
F-3455-14-12	F-3450-14-12	7/8"	3/4"	2-9/16"	1-11/32"
F-3455-16-16	F-3450-16-16	1"	1"	2-15/16"	1-5/8"
F-3455-16-12	F-3450-16-12	1"	3/4"	2-19/32"	1-11/32"
F-3455-20-20	F-3450-20-20	1-1/4"	1-1/4"	3-5/32"	1-11/16"
F-3455-20-16	F-3450-20-16	1-1/4"	1"	2-29/32"	1-5/8"
F-3455-24-24	F-3450-24-24	1-1/2"	1-1/2"	3-31/32"	2-1/16"
F-3455-32-32	F-3450-32-32	2"	2"	4-13/32"	2-3/8"

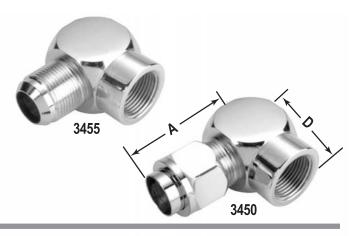
F-3505 / F-3500 • Elbow Union

Body Only Part#	Complete Assy. Part#	Tube O.D.	"A" Tube Leg
F-3505-4	F-3500-4	1/4""	1-9/32"
F-3505-5	F-3500-5	5/16"	1-3/8"
F-3505-6	F-3500-6	3/8"	1-17/32"
F-3505-8	F-3500-8	1/2"	1-25/32"
F-3505-10	F-3500-10	5/8"	2-3/32"
F-3505-12	F-3500-12	3/4"	2-1/4"
F-3505-14	F-3500-14	7/8"	2-7/16"
F-3505-16	F-3500-16	1"	2-19/32"
F-3505-20	F-3500-20	1-1/4"	2-29/32"
F-3505-24	F-3500-24	1-1/2"	3-7/16"
F-3505-32	F-3500-32	2"	4-3/16"

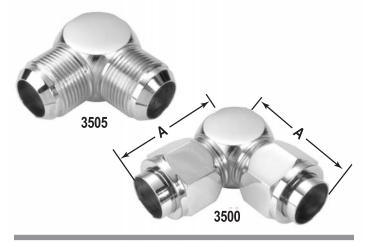
F-3605 / F-3600 • Male Branch Tee

	Body Only	Complete	Tube	Male Pipe	"A" Tube	"D" Male
-	Part #	Assy. Part #	O.D.	Thread	Leg	Pipe Leg
_	F-3605-4-4-2	F-3600-4-4-2	1/4"	1/8"	1-9/32"	25/32"
_	F-3605-4-4-4	F-3600-4-4-4	1/4"	1/4"	1-13/32"	1-3/32"
_	F-3605-5-5-2	F-3600-5-5-2	5/16"	1/8"	1-3/8"	25/32"
	F-3605-5-5-4	F-3600-5-5-4	5/16"	1/4"	1-7/16"	1-3/32"
	F-3605-6-6-4	F-3600-6-6-4	3/8"	1/4"	1-17/32"	1-3/32"
	F-3605-6-6-2	F-3600-6-6-2	3/8"	1/8"	1-17/32"	7/8"
	F-3605-6-6-6	F-3600-6-6-6	3/8"	3/8"	1-21/32"	1-7/32"
	F-3605-6-6-8	F-3600-6-6-8	3/8"	1/2"	1-23/32"	1-15/32"
	F-3605-8-8-6	F-3600-8-8-6	1/2"	3/8"	1/25/32"	1-7/32"
	F-3605-8-8-4	F-3600-8-8-4	1/2"	1/4"	1-25/32"	1-5/32"
	F-3605-8-8-8	F-3600-8-8-8	1/2"	1/2"	1-15/16"	1-15/32"
	F-3605-8-8-12	F-3600-8-8-12	1/2"	3/4"	2-1/32"	1-9/16"
	F-3605-10-10-8	F-3600-10-10-8	5/8"	1/2"	2-3/32"	1-15/32"
	F-3605-10-10-6	F-3600-10-10-6	5/8"	3/8"	2-3/32"	1-3/8"
) _	F-3605-10-10-12	2F-3600-10-10-12	2 5/8"	3/4"	2-7/32"	1-19/32"
	F-3605-12-12-12	2F-3600-12-12-12	2 3/4"	3/4"	2-1/4"	1-19/32"
	F-3605-12-12-8	F-3600-12-12-8	3/4"	1/2"	2-1/4"	1-9/16"
	F-3605-14-14-12	2F-3600-14-14-12	2 7/8"	3/4"	2-7/16"	1-11/16"
	F-3605-16-16-16	F-3600-16-16-16	3 1"	1"	2-19/32"	1-31-32"
	F-3605-16-16-12	2F-3600-16-16-12	2 1"	3/4"	2-19/32"	1-23/32"
Ξ	F-3605-20-20-20	F-3600-20-20-20	1-1/4"	1-1/4"	2-29/32"	2-3/8"
Ξ	F-3605-24-24-24	F-3600-24-24-24	1-1/2"	1-1/2"	3-7/16"	2-5/8"
	F-3605-32-32-32	2F-3600-32-32-32	2"	2"	4-3/16"	3"

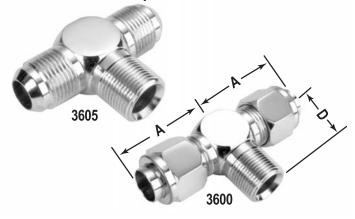
F-3455 / F-3450 **Female Elbow** Flare Tube End-Female Pipe End



F-3505 / F-3500 **Elbow Union** Flare Tube End-Both Openings



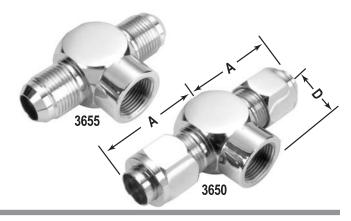
F-3605 / F-3600 Male Branch Tee Flare Tube Two Ends -**Male Pipe Side Outlet**



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F-3655 / F-3650 - Female Branch Tee Flare Tube Two Ends Female Pipe Side Outlet



F-3705 / F-3700 - Tee Union Flare Tube End - All Openings



F-3755 / F-3750 - Male Run Tee Flare Tube End - Male Pipe End Flare Tube Side Outlet



F-3655 / F-3650 • Female Branch Tee

Body Only	Complete	Tube	Female Pipe	"A" Tube	"D" Female
Part #	Assy. Part #	O.D.	Thread	Leg	Pipe Leg
F-3655-4-4-2	F-3650-4-4-2	1/4"	1/8"	1-7/16"	21/32"
F-3655-4-4-4	F-3650-4-4-4	1/4"	1/4"	1-9/16"	29/32"
F-3655-5-5-2	F-3650-5-5-2	5/16"	1/8"	1-15/32"	21/32"
F-3655-6-6-4	F-3650-6-6-4	3/8"	1/4"	1-11/16"	29/32"
F-3655-6-6-2	F-3650-6-6-2	3/8"	1/8"	1-17/32"	21/32"
F-3655-6-6-6	F-3650-6-6-6	3/8"	3/8"	1-25/32"	1"
F-3655-8-8-6	F-3650-8-8-6	1/2"	3/8"	1-15/16"	1"
F-3655-8-8-4	F-3650-8-8-4	1/2"	1/4"	1-27/32"	29/32"
F-3655-8-8-8	F-3650-8-8-8	1/2"	1/2"	1-31-32"	1-1/4"
F-3655-10-10-8	F-3650-10-10-8	5/8"	1/2"	2-1/4"	1-1/4"
F-3655-12-12-12	F-3650-12-12-12	3/4"	3/4"	2-15/32"	1-11/32"
F-3655-12-12-8	F-3650-12-12-8	3/4"	1/2"	2-1/4"	1-1/4"
F-3655-14-14-12	F-3650-14-14-12	7/8"	3/4"	2-9/16"	1-11/32"
F-3655-16-16-16	F-3650-16-16-16	1"	1"	2-15/16"	1-5/8"
F-3655-20-20-20	F-3650-20-20-20	1-1/4"	1-1/4"	3-5/32"	1-11/16"
F-3655-24-24-24	F-3650-24-24-24	1-1/2"	1-1/2"	3-31/32"	2-1/16"
F-3655-32-32-32	F-3650-32-32-32	2"	2"	4-13/32"	2-3/8"

F-3705 / F-3700 •Tee Union

Body Only Part#	Complete Assy. Part #	Tube O.D.	"A" Tube Leg
F-3705-2	F-3700-2	1/8"	1-3/32"
F-3705-3	F-3700-3	3/16"	1-5/32"
F-3705-4	F-3700-4	1/4"	1-9/32"
F-3705-5	F-3700-5	5/16"	1-3/8"
F-3705-6	F-3700-6	3/8"	1-17/32"
F-3705-8	F-3700-8	1/2"	1-25/32"
F-3705-10	F-3700-10	5/8"	2-3/32"
F-3705-12	F-3700-12	3/4"	2-1/4"
F-3705-14	F-3700-14	7/8"	2-7/16"
F-3705-16	F-3700-16	1"	2-19/32"
F-3705-20	F-3700-20	1-1/4"	2-29/32"
F-3705-24	F-3700-24	1-1/2"	3-7/16"
F-3705-32	F-3700-32	2"	4-3/16"

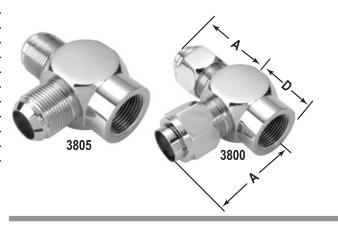
F-3755 / F-3750 • Male Run Tee

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Body Only Part #	Complete Assy. Part #	Tube O.D.	Male Pipe Thread	"A" Tube Leg	"D" Male Pipe Leg
F-3755-4-2-4	F-3750-4-2-4	1/4"	1/8"	1-9/32"	25/32"
F-3755-4-4-4	F-3750-4-4-4	1/4"	1/4"	1-13/32"	1-3/32"
F-3755-5-2-5	F-3750-5-2-5	5/16"	1/8"	1-3/8"	25/32"
F-3755-6-4-6	F-3750-6-4-6	3/8"	1/4"	1-17/32"	1-3/32"
F-3755-6-2-6	F-3750-6-2-6	3/8"	1/8"	1-17/32"	7/8"
F-3755-6-6-6	F-3750-6-6-6	3/8"	3/8"	1-21/32"	1-7/32"
F-3755-8-6-8	F-3750-8-6-8	1/2"	3/8"	1-25/32"	1-7/32"
F-3755-8-4-8	F-3750-8-4-8	1/2"	1/4"	1-25/32"	1-5/32"
F-3755-8-8-8	F-3750-8-8-8	1/2"	1/2"	1-15/16"	1-15/32"
F-3755-10-8-10	F-3750-10-8-10	5/8"	1/2"	2-3/32"	1-15/32"
F-3755-12-12-12	2F-3750-12-12-12	2 3/4"	3/4"	2-1/4"	1-19/32"
F-3755-14-12-14	4F-3750-14-12-14	1 7/8"	3/4"	2-7/16"	1-11/16"
F-3755-16-16-16	6F-3750-16-16-16	3 1"	1"	2-19/32"	1-31/32"
F-3755-20-20-20	F-3750-20-20-20	01-1/4"	1-1/4"	2-29/32"	2-3/8"
F-3755-24-24-24	4F-3750-24-24-2	11-1/2"	1-1/2"	3-7/16"	2-5/8"
F-3755-32-32-32	2F-3750-32-32-32	2 2"	2"	4-3/16"	3"

F-3805 / F-3800 • Female Run Tee

Body Only Part#	Complete Assy. Part #	Tube O.D.	Female Pipe Thread	"A" Tube Leg	"D" Female Pipe Leg
F-3805-4-2-4	F-3800-4-2-4	1/4"	1/8"	1-7/16"	21/32"
F-3805-5-2-5	F-3800-5-2-5	5/16"	1/8"	1-15/32"	21/32"
F-3805-6-4-6	F-3800-6-4-6	3/8"	1/4"	1-11/16"	29/32"
F-3805-8-6-8	F-3800-8-6-8	1/2"	3/8"	1-15/16"	1"
F-3805-8-8-8	F-3800-8-8-8	1/2"	1/2"	1-31/32"	1-1/4"
F-3805-10-8-10	F-3800-10-8-10	5/8"	1/2"	2-1/4"	1-1/4"
F-3805-12-12-1	2F-3800-12-12-1	2 3/4"	3/4"	2-15/32"	1-11/32"
F-3805-14-12-14	4F-3800-14-12-1	4 7/8"	3/4"	2-9/16"	1-11/32"
F-3805-16-16-1	6F-3800-16-16-1	6 1"	1"	2-15/16"	1-5/8"
F-3805-20-20-2	0F-3800-20-20-2	01-1/4"	1-1/4"	3-5/32"	1-11/16"
F-3805-24-24-2	4F-3800-24-24-2	41-1/2"	1-1/2"	3-31/32"	2-1/16"
F-3805-32-32-3	2F-3800-32-32-3	2 2"	2"	4-13/32"	2-3/8"

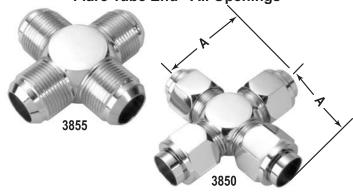
F-3805 / F-3800 • Female Run Tee Flare Tube End - Female Pipe End -Flare Tube Side Outlet



F-3855 / F-3850 • Tube Cross

Body Only Part#	Complete Assy. Part #	Tube O.D.	"A" Tube Leg
F-3855-4	F-3850-4	1/4"	1-9/32"
F-3855-5	F-3850-5	5/16"	1-3/8"
F-3855-6	F-3850-6	3/8"	1-17/32"
F-3855-8	F-3850-8	1/2"	1-25/32"
F-3855-10	F-3850-10	5/8"	2-3/32"
F-3855-12	F-3850-12	3/4"	2-1/4"
F-3855-14	F-3850-14	7/8"	2-7/16"
F-3855-16	F-3850-16	1"	2-19/32"
F-3855-20	F-3850-20	1-1/4"	2-29/32"
F-3855-24	F-3850-24	1-1/2"	3-7/16"
F-3855-32	F-3850-32	2"	4-3/16"

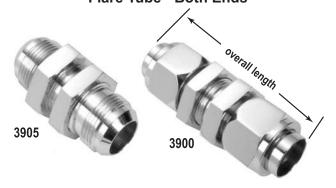
F-3855 / F-3850 • Tube Cross Flare Tube End - All Openings



F-3905 / F-3900 • Bulkhead Union

	Body Only Part #	Complete Assy. Part #	Tube O.D.	Bulkhead Hole Diameter	Overall Length
	F-3905-4	F-3900-4	1/4"	15/32"	2-27/32"
	F-3905-5	F-3900-5	5/16"	17/32"	2-29/32"
	F-3905-6	F-3900-6	3/8"	19/32"	3-1/8"
	F-3905-8	F-3900-8	1/2"	25/32"	3-17/32"
)	F-3905-10	F-3900-10	5/8"	29/32"	4"
	F-3905-12	F-3900-12	3/4"	1-3/32"	4-9/32"
l	F-3905-14	F-3900-14	7/8"	1-7/32"	4-9/16"
	F-3905-16	F-3900-16	1"	1-11/32"	5-23/32"
J	F-3905-20	F-3900-20	1-1/4"	1-21/32"	5-7/32"
À	F-3905-24	F-3900-24	1-1/2"	1-29/32"	5-11/16"
	F-3905-32	F-3900-32	2"	2-17/32"	6-17/32"

F-3905 / 3900 • Bulkhead Union Flare Tube - Both Ends





F-3945 / F-3940 Bulkhead 45° Union Elbow Flare Tube End - Both Openings

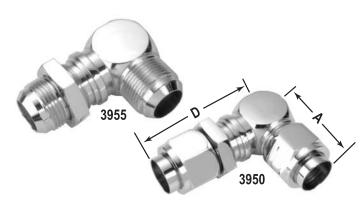


F-3945 / F-3940 • Bulkhead 45° Union Elbow

Body Only	Complete	Tube	Bulkhead	"A" Tube	"D"
Part #	Assy. Part #	O.D.	Hole Dia.	Leg	Blkhd. Leg
F-3945-4	F-3940-4	1/4"	15/32"	1-3/32"	2-3/32"
F-3945-5	F-3940-5	5/16"	17/32"	1-5/32"	2-5/32"
F-3945-6	F-3940-6	3/8"	19/32"	1-9/32"	2-13/32"
F-3945-8	F-3940-8	1/2"	25/32"	1-1/2"	2-23/32"
F-3945-10	F-3940-10	5/8"	29/32"	1-23/32"	3-3/32"
F-3945-12	F-3940-12	3/4"	1-3/32"	1-7/8"	3-11/32"
F-3945-14	F-3940-14	7/8"	1-7/32"	2-3/32"	3-17/32"
F-3945-16	F-3940-16	1"	1-11/32"	2-7/32"	3-21/32"
F-3945-20	F-3940-20	1-1/4"	1-21/32"	2-7/16"	4-1/16"
F-3945-24	F-3940-24	1-1/2"	1-29/32"	2-7/8"	4-15/32"

F-3955 / F-3950 Bulkhead Union Elbow Flare Tube End - Both Openings

Maximum Bulkhead Thickness 3/8"

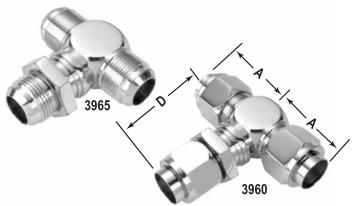


F-3955 / F-3950 • Bulkhead Union Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Bulkhead Hole Dia.	"A" Tube Leg	"D" Blkhd. Leg
F-3955-4	F-3950-4	1/4"	15/32"	1-9/32"	2-3/32"
F-3955-5	F-3950-5	5/16"	17/32"	1-13/32"	2-5/32"
F-3955-6	F-3950-6	3/8"	19/32"	1-17/32"	1-13/32"
F-3955-8	F-3950-8	1/2"	25/32"	1-7/8"	2-23/32"
F-3955-10	F-3950-10	5/8"	29/32"	2-5/32"	3-3/32"
F-3955-12	F-3950-12	3/4"	1-3/32"	2-11/32"	3-11/32"
F-3955-14	F-3950-14	7/8"	1-7/32"	2-1/2"	3-17/32"
F-3955-16	F-3950-16	1"	1-11/32"	2-21/32"	3-21/32"
F-3955-20	F-3950-20	1-1/4"	1-21/32"	3"	4-1/16"
F-3955-24	F-3950-24	1-1/2"	1-29/32"	3-7/16"	4-19/32"
F-3955-32	F-3950-32	2"	2-17/32"	4-3/16"	5-1/4"

F-3965 / F-3960 Bulkhead Tee Flare Tube End - All Openings

Maximum Bulkhead Thickness 3/8"



F-3965 / F-3960 • Bulkhead Tee

	Body Only	Complete	Tube	Bulkhead	"A" Tube	"D"
	Part #	Assy. Part #	O.D.	Hole Dia.	Leg	Blkhd. Leg
ľ	F-3965-4	F-3960-4	1/4"	15/32"	1-9/32"	2-3/32"
ľ	F-3965-5	F-3960-5	5/16"	17/32"	1-13/32"	2-5/32"
	F-3965-6	F-3960-6	3/8"	19/32"	1-17/32"	2-13/32"
ľ	F-3965-8	F-3960-8	1/2"	25/32"	1-7/8"	2-23/32"
	F-3965-10	F-3960-10	5/8"	29/32"	2-5/32"	3-3/32"
ľ	F-3965-12	F-3960-12	3/4"	1-3/32"	2-11/32"	3-11/32"
ľ	F-3965-14	F-3960-14	7/8"	1-7/32"	2-1/2"	3-17/32"
	F-3965-16	F-3960-16	1"	1-11/32"	2-21/32"	3-21/32"
ľ	F-3965-20	F-3960-20	1-1/4"	1-21/32"	3"	4-1/16"

F-3985 / F-3980 • Female Bulkhead

Body Only Part #	Complete Assy. Part #	Tube O.D.	Female Pipe Thread	Bulkhead Hole Dia.	Overall Length
F-3985-4-2	F-3980-4-2	1/4"	1/8"	15/32"	2-9/32"
F-3985-4-4	F-3980-4-4	1/4"	1/4"	15/32"	2-15/32"
F-3985-5-2	F-3980-5-2	5/16"	1/8"	17/32"	2-5/16"
F-3985-6-4	F-3980-6-4	3/8"	1/4"	19/32"	2-5/8"
F-3985-6-6	F-3980-6-6	3/8"	3/8"	19/32"	2-23/32"
F-3985-8-6	F-3980-8-6	1/2"	3/8"	25/32"	2-29/32"
F-3985-8-8	F-3980-8-8	1/2"	1/2"	25/32"	3-1/8"
F-3985-10-8	F-3980-10-8	5/8"	1/2"	29/32"	3-11/32"
F-3985-12-12	F-3980-12-12	3/4"	3/4"	1-3/32"	3-19/32"
F-3985-14-12	F-3980-14-12	7/8"	3/4"	1-7/32"	3-21/32"
F-3985-16-16	F-3980-16-16	1"	1"	1-11/32"	3-7/8"
F-3985-20-20	F-3980-20-20	1-1/4"	1-1/4"	1-21/32"	4-1/8"
F-3985-24-24	F-3980-24-24	1-1/2"	1-1/2"	1-29/32"	4-11/32"
F-3985-32-32	F-3980-32-32	2"	2"	2-17/32"	4-27/32"

F-3985 / F-3980 Female Bulkhead Flare Tube End - Female Pipe End



F-3355SW / F-3350SW • Swivel Nut 45° Elbow

Body Only Complete Assy. Part # Part #		Tube O.D.	"A" Tube Leg	"D" Swivel Leg
F-3355SW-4	F-3350SW-4	1/4"	1-3/32"	15/16"
F-3355SW-5	F-3350SW-5	5/16"	1-5/32"	1"
F-3355SW-6	F-3350SW-6	3/8"	1-9/32"	1-1/8"
F-3355SW-8	F-3350SW-8	1/2"	1-1/2"	1-9/32"
F-3355SW-10	F-3350SW-10	5/8"	1-23/32"	1-7/16"
F-3355SW-12	F-3350SW-12	3/4"	1-7/8"	1-1/2"
F-3355SW-14	F-3350SW-14	7/8"	2-3/32"	1-5/8"
F-3355SW-16	F-3350SW-16	1"	2-7/32"	1-3/4"
F-3355SW-20 F-3350SW-20		1-1/4"	2-7/16"	2-1/32"
F-3355SW-24	F-3350SW-24	1-1/2"	2-7/8"	2-1/4"
F-3355SW-32	F-3350SW-32	2"	3-11/32"	2-29/32"

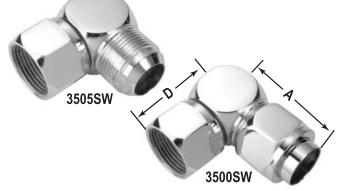
F-3355SW / F-3350SW Swivel Nut 45° Elbow Flare Tube End - JIC Swivel End



F-3505SW / F-3500SW • Swivel Nut Elbow

Body Only Complete Assy.		Tube	"A"	"D" Swivel
Part #	Part #	O.D.	Tube Leg	Leg
F-3505SW-4	F-3500SW-4	1/4"	1-9/32"	1"
F-3505SW-5	F-3500SW-5	5/16"	1-3/8"	1-1/16"
F-3505SW-6	F-3500SW-6	3/8"	1-17/32"	1-1/4"
F-3505SW-8	F-3500SW-8	1/2"	1-25/32"	1-3/8"
F-3505SW-10 F-3500SW-10		5/8"	2-3/32"	1-5/8"
F-3505SW-12	F-3500SW-12	3/4"	2-1/4"	1-3/4"
F-3505SW-14	F-3500SW-14	7/8"	2-7/16"	1-25/32"
F-3505SW-16	F-3500SW-16	1"	2-19/32"	2"
F-3505SW-20 F-3500SW-20		1-1/4"	2-29/32"	2-5/16"
F-3505SW-24 F-3500SW-24		1-1/2"	3-7/16"	2-19/32"
F-3505SW-32	F-3500SW-32	2"	4-3/16"	3-3/8"

F-3505SW / F-3500SW Swivel Nut 90° Elbow Flare Tube End - JIC Swivel End



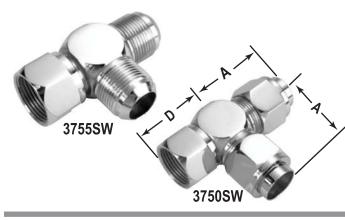
F-3605SW / F-3600SW Swivel Nut Branch Tee Flare Tube End -Flare Tube End - JIC Swivel Side Outlet



F-3605SW / F-3600SW • Swivel Nut Branch Tee

Body Only Part #	Complete Assy. Part #	Tube O.D.	"A" Tube Leg	"D"Swivel Leg
F-3605SW-4	F-3600SW-4	1/4"	1-9/32"	1"
F-3605SW-5	F-3600SW-5	5/16"	1-3/8"	1-1/16"
F-3605SW-6	F-3600SW-6	3/8"	1-17/32"	1-1/4"
F-3605SW-8	F-3600SW-8	1/2"	1-25/32"	1-3/8"
F-3605SW-10	F-3600SW-10	5/8"	2-3/32"	1-5/8"
F-3605SW-12	F-3600SW-12	3/4"	2-1/4"	1-3/4"
F-3605SW-14	F-3600SW-14	7/8"	2-7/16"	1-25/32"
F-3605SW-16	F-3600SW-16	1"	2-19/32"	2"
F-3605SW-20	F-3600SW-20	1-1/4"	2-29/32"	2-5/16"
F-3605SW-24	F-3600SW-24	1-1/2"	3-7/16"	2-19/32"
F-3605SW-32	F-3600SW-32	2"	4-3/16"	3-3/8"

F-3755SW / F-3750SW Swivel Nut Run Tee Flare Tube End -JIC Swivel End - Flare Tube Side Outlet



F-3755SW / F-3750SW • Swivel Nut Run Tee

Body Only Complete Assy. Part # Part #		Tube O.D.	"A" Tube Leg	"D"Swivel Lea
F-3755SW-4	F-3750SW-4	1/4"	1-9/32"	1"
F-3755SW-5	F-3750SW-5	5/16"	1-3/8"	1-1/16"
F-3755SW-6	F-3750SW-6	3/8"	1-17/32"	1-1/4"
F-3755SW-8	F-3750SW-8	1/2"	1-25/32"	1-3/8"
F-3755SW-10	F-3750SW-10	5/8"	2-3/32"	1-5/8"
F-3755SW-12	F-3750SW-12	3/4"	2-1/4"	1-3/4"
F-3755SW-14	F-3750SW-14	7/8"	2-7/16"	1-25/32"
F-3755SW-16	F-3750SW-16	1"	2-19/32"	2"
F-3755SW-20	F-3750SW-20	1-1/4"	2-29/32"	2-5/16"
F-3755SW-24	F-3750SW-24	1-1/2"	3-7/16"	2-19/32"
F-3755SW-32	F-3750SW-32	2"	4-3/16"	3-3/8"

F-3105SW Male Pipe to 37° Female Swivel



Please indicate size Example: F-3105SW-8-8

F-3255SW Female Pipe to 37° Female Swivel



F-A3105SW O-Ring SAE to 37° Female Swivel



F-A3405SW
O-Ring SAE Adjustable to 37° Female Swivel
Elbow



F-3765 Cross

Flare Tube End -Flare Tube End -

Male Pipe End -Male Pipe End

F-3775 Cross Flare Tube End -

Flare Tube End -Female Pipe End -





F-3785 Cross

Flare Tube End -Male Pipe End -Male Pipe End -Male Pipe End



F-3795 Cross

Flare Tube End -Female Pipe End -Female Pipe End -Female Pipe End



F-3815 Male Cross

Flare Tube End -Flare Tube End -Flare Tube End -Male Pipe End



F-3825 Female Cross

Flare Tube End -Flare Tube End -Flare Tube End -Female Pipe End



F-3865 Tee

Female Pipe End -Male Pipe End -Flare Tube Side Outlet



F-3875 Tee

Male Pipe End -Male Pipe End -Flare Tube Side Outlet



F-3885 Tee

Flare Tube End -Female Pipe End-Male Pipe Side Outlet



F-3895 Tee

Flare Tube End -Male Pipe End -Male Pipe Side Outlet,



F-3915 Tee

Flare Tube End -Male Pipe End -Female Pipe Side Outlet



F-3925 Tee

Female Pipe End -Female Pipe End -Flare Tube Side Outlet



F-3935 Tee

Flare Tube End -Female Pipe End-Female Pipe Side Outlet



F-3995 Male Bulkhead

Flare Tube End -Male Pipe End





37° Flare Tube Fittings SAE STRAIGHT THREAD

F-A3105 / F-A3100 • Male Connector Flare Tube End -SAE Straight Thread End



F-A3105 / F-A3100 • Male Connector

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	Overall Length	
F-A3105-4-4	F-A3100-4-4	1/4"	7/16"-20	•	
F-A3105-4-5	F-A3100-4-5	1/4"	1/2"-20		
F-A3105-4-6	F-A3100-4-6	1/4"	9/16"-18		
F-A3105-5-5	F-A3100-5-5	5/16"	1/2"-20		
F-A3105-6-6	F-A3100-6-6	3/8"	9/16"-18		
F-A3105-6-8	F-A3100-6-8	3/8"	3/4"-16		
F-A3105-6-10	F-A3100-6-10	3/8"	7/8"-14		
F-A3105-8-8	F-A3100-8-8	1/2"	3/4"-16		
F-A3105-8-6	F-A3100-8-6	1/2"	9/16"-18		
F-A3105-8-10	F-A3100-8-10	1/2"	7/8"-14		
F-A3105-8-12	F-A3100-8-12	1/2"	1-1/16"-12		
F-A3105-8-14	F-A3100-8-14	1/2"	1-3/16"-12		
F-A3105-10-10	F-A3100-10-10	5/8"	7/8"-14		
F-A3105-10-8	F-A3100-10-8	5/8"	3/4"-16		
F-A3105-10-12	F-A3100-10-12	5/8"	1-1/16"-12		
F-A3105-12-12	F-A3100-12-12	3/4"	1-1/16"-12		
F-A3105-12-8	F-A3100-12-8	3/4"	3/4"-16		
F-A3105-12-10	F-A3100-12-10	3/4"	7/8"-14		
F-A3105-12-14	F-A3100-12-14	3/4"	1-3/16"-12		
F-A3105-12-16	F-A3100-12-16	3/4"	1-5/16"-12		
F-A3105-14-14	F-A3100-14-14	7/8"	1-3/16"-12		
F-A3105-14-16	F-A3100-14-16	7/8"	1-5/16"-12		
F-A3105-16-16	F-A3100-16-16	1"	1-5/16"-12		
F-A3105-16-12	F-A3100-16-12	1"	1-1/16"-12		
F-A3105-16-20	F-A3100-16-20	1"	1-5/8"-12		
F-A3105-20-20	F-A3100-20-20	1-1/4"	1-5/8"-12		
F-A3105-20-16	F-A3100-20-16	1-1/4"	1-5/16"-12		
F-A3105-20-24	F-A3100-20-24	1-1/4"	1-7/8"-12		
F-A3105-24-24	F-A3100-24-24	1-1/2"	1-7/8"-12		
F-A3105-24-20	F-A3100-24-20	1-1/2"	1-5/8"-12		
F-A3105-32-32	F-A3100-32-32	2"	2-1/2"-12		

F-A3105-L / F-A3100-L • Long Male Connector Flare Tube End -SAE Straight Thread End



F-A3355 / F-A3350 • Male 45° Elbow Flare Tube End -SAE Straight Thread End



F-A3105L / F-A3100L • Long Male Connector

Body Only Complete Assy. Part # Part #		Tube O.D.	Straight Thread	Overall Length
F-A3105L-4	F-A3100L-4	1/4"	7/16"-20	2-5/16"
F-A3105L-5	F-A3100L-5	5/16"	1/2"-20	2-13/32"
F-A3105L-6	F-A3100L-6	3/8"	9/16"-18	2-21/32"
F-A3105L-8	F-A3100L-8	1/2"	3/4"-16	3-3/32"
F-A3105L-10	F-A3100L-10	5/8"	7/8"-14	3-23/32"
F-A3105L-12	F-A3100L-12	3/4"	1-1/6"-12	4-1/8"
F-A3105L-14	F-A3100L-14	7/8"	1-3/16"-12	4-3/8"
F-A3105L-16	F-A3100L-16	1"	1-5/16"-12	4-19/32"
F-A3105L-20	F-A3100L-20	1-1/4"	1-5/8"-12	5-11/32"
F-A3105L-24	F-A3100L-24	1-1/2"	1-7/8"-12	5-31/32"
F-A3105L-32	F-A3100L-32	2"	2-1/2"-12	6-15/16"

F-A3355 / F-A3350 • Male 45° Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	"A" Tube Leg	"D" Straight Thread Leg	
F-A3355-4	F-A3350-4	1/4"	7/16"-20	1-3/32"	1-1/32"	
F-A3355-5	F-A3350-5	5/16"	1/2"-20	1-5/32"	1-1/32"	
F-A3355-6	F-A3350-6	3/8"	9/16"-18	1-9/32"	1-1/8"	F
F-A3355-8	F-A3350-8	1/2"	3/4"-16	1-1/2"	1-9/32"	
F-A3355-10	F-A3350-10	5/8"	7/8"-14	1-23/32"	1-1/2"	6
F-A3355-12	F-A3350-12	3/4"	1-1/16"-12	1-7/8"	1-23/32"	
F-A3355-14	F-A3350-14	7/8"	1-3/16"-12	2-3/32"	1-25/32"	,
F-A3355-16	F-A3350-16	1"	1-5/16"-12	2-7/32"	1-27/32"	6
F-A3355-20	F-A3350-20	1-1/4"	1-5/8"-12	2-7/16"	1-29/32"	
F-A3355-24	F-A3350-24	1-1/2"	1-7/8"-12	2-7/8"	1-29/32"	
F-A3355-32	F-A3350-32	2"	2-1/2"-12	3-11/32"	1-27/32"	1

37° Flare Tube Fittings SAE STRAIGHT THREAD

F-A3405 / F-A3400 • Male Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	"A" Tube Leg	"D" Straight Thread Leg
F-A3405-4-4	F-A3400-4-4	1/4"	7/16"-20	1-9/32"	1-1/64"
F-A3405-4-6	F-A3400-4-6	1/4"	9/16"-18	1-11/32"	1-15/64"
F-A3405-5-5	F-A3400-5-5	5/16"	1/2"-20	1-3/8"	1-5/64"
F-A3405-6-6	F-A3400-6-6	3/8"	9/16"-18	1-17/32"	1-15/64"
F-A3405-6-4	F-A3400-6-4	3/8"	7/16"-20	1-17/32"	1-5/64"
F-A3405-6-8	F-A3400-6-8	3/8"	3/4"-16	1-5/8"	1-7/16"
F-A3405-6-10	F-A3400-6-10	3/8"	7/8"-14	1-11/16"	1-11/16"
F-A3405-8-8	F-A3400-8-8	1/2"	3/4"-16	1-25/32"	1-7/16"
F-A3405-8-6	F-A3400-8-6	1/2"	9/16"-18	1-25/32"	1-19/64"
F-A3405-8-10	F-A3400-8-10	1/2"	7/8"-14	1-27/32"	1-11/16"
F-A3405-8-12	F-A3400-8-12	1/2"	1-1/16"-12	2"	1-15/16"
F-A3405-10-10	F-A3400-10-10	5/8"	7/8"-14	2-3/32"	1-11/16"
F-A3405-10-8	F-A3400-10-8	5/8"	3/4"-16	2-3/32"	1-1/2"
F-A3405-10-12	F-A3400-10-12	5/8"	1-1/16"-12	2-7/32"	1-15/16"
F-A3405-12-12	F-A3400-12-12	3/4"	1-1/16"-12	2-1/4"	1-15/16"
F-A3405-12-10	F-A3400-12-10	3/4"	7/8"-14	2-1/4"	1-13/16"
F-A3405-12-16	F-A3400-12-16	3/4"	1-5/16"-12	2-13/32"	2-1/32"
F-A3405-14-14	F-A3400-14-14	7/8"	1-3/16"-12	2-7/16"	2"
F-A3405-16-16	F-A3400-16-16	1"	1-5/16"-12	2-19/32"	2-1/32"
F-A3405-16-12	F-A3400-16-12	1"	1-1/16"-12	2-19/32"	2-1/16"
F-A3405-20-20	F-A3400-20-20	1-1/4"	1-5/8"-12	2-29/32"	2-1/4"
F-A3405-24-24	F-A3400-24-24	1-1/2"	1-7/8"-12	3-7/16"	2-3/8"
F-A3405-24-20	F-A3400-24-20	1-1/2"	1-5/8"-12	3-7/16"	2-3/8"
F-A3405-32-32	F-A3400-32-32	2"	2-1/2"-12	4-3/16"	2-7/8"

F-A3405L / F-A3400L • Long Male Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	"A" Tube Leg	"D" Straight Thread Leg
F-A3405L-4	F-A3400L-4	1/4"	7/16"-20	1-9/32"	1-3/16"
F-A3405L-6	F-A3400L-6	3/8"	9/16"-18	1-17/32"	1-21/32"
F-A3405L-8	F-A3400L-8	1/2"	3/4"-16	1-25/32"	1-13/16"
F-A3405L-10	F-A3400L-10	5/8"	7/8"-14	2-3/32"	2-7/32"
F-A3405L-12	F-A3400L-12	3/4"	1-1/16"-12	2-1/4"	2-15/32"
F-A3405L-16	F-A3400L-16	1"	1-5/16"-12	2-19/32"	3-1/16"

F-A3405LL / F-A3400LL • Extra Long Male Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	"A" Tube Leg	"D" Straight Thread Leg
F-A3405LL-4	F-A3400LL-4	1/4"	7/16"-20	1-9/32"	1-23/32"
F-A3405LL-6	F-A3400LL-6	3/8"	9/16"-18	1-17/32"	2-1/16"
F-A3405LL-8	F-A3400LL-8	1/2"	3/4"-16	1-25/32"	2-1/2"
F-A3405LL-10	F-A3400LL-10	5/8"	7/8"-14	2-3/32"	2-7/8"
F-A3405LL-12	2 F-A3400LL-12	3/4"	1-1/16"-12	2-1/4"	3-11/32"
F-A3405LL-16	F-A3400LL-16	1"	1-5/16"-12	2-19/32"	3-3/4"

F-A3405 / F-A3400 • Male Elbow Flare Tube End -SAE Straight Thread End



F-A3405L / F-A3400L • Long Male Elbow Flare Tube End -SAE Straight Thread End



F-A3405LL / F-A3400LL • Extra Long Male Elbow Flare Tube End -SAE Straight Thread End





37° Flare Tube Fittings SAE STRAIGHT THREAD

F-A3605 / F-A3600 • Male Branch Tee Flare Tube Ends -SAE Straight Thread Side Outlet



F-A3605 / F-A3600 • Male Elbow

Body Only Part #	Complete Assy. Part #	Tube O.D.	Straight Thread	"A" Tube Leg	"D" Straight Thread Leg
F-A3605-4	F-A3600-4	1/4"	7/16"-20	1-9/32"	1-1/64"
F-A3605-5	F-A3600-5	5/16"	1/2"-20	1-3/8"	1-5/64"
F-A3605-6	F-A3600-6	3/8"	9/16"-18	1-17/32"	1-15/64"
F-A3605-8	F-A3600-8	1/2"	3/4"-16	1-25/32"	1-7/16"
F-A3605-10	F-A3600-10	5/8"	7/8"-14	2-3/32"	1-11/16"
F-A3605-12	F-A3600-12	3/4"	1-1/16"-12	2-1/4"	1-15/16"
F-A3605-14	F-A3600-14	7/8"	1-3/16"-12	2-7/16"	2"
F-A3605-16	F-A3600-16	1"	1-5/16"-12	2-19/32"	2-1/32"
F-A3605-20	F-A3600-20	1-1/4"	1-5/8"-12	2-29/32"	2-1/4"
F-A3605-24	F-A3600-24	1-1/2"	1-7/8"-12	3-7/16"	2-3/8"
F-A3605-32	F-A3600-32	2"	2-1/2"-12	4-3/16"	2-7/8"

F-A3755 / F-A3750 • Male Run Tee Flare Tube End - SAE Straight Thread End Flare Tube Side Outlet



F-A3755 / F-A3750 • Male Run Tee

	Body Only	Complete	Tube	Straight		"D" Straight
	Part #	Assy. Part #	O.D.	Thread	Leg	Thread Leg
	F-A3755-4	F-A3750-4	1/4"	7/16"-20	1-9/32"	1-1/64"
	F-A3755-5	F-A3750-5	5/16"	1/2"-20	1-3/8"	1-5/64"
	F-A3755-6	F-A3750-6	3/8"	9/16"-18	1-17/32"	1-15/64"
	F-A3755-8	F-A3750-8	1/2"	3/4"-16	1-25/32"	1-7/16"
	F-A3755-10	F-A3750-10	5/8"	7/8"-14	2-3/32"	1-11/16"
	F-A3755-12	F-A3750-12	3/4"	1-1/16"-12	2-1/4"	1-15/32"
	F-A3755-14	F-A3750-14	7/8"	1-3/16"-12	2-7/16"	2"
	F-A3755-16	F-A3750-16	1"	1-5/16"-12	2-19/32"	2-1/32"
	F-A3755-20	F-A3750-20	1-1/4"	1-5/8"-12	2-29/32"	2-1/4"
	F-A3755-24	F-A3750-24	1-1/2"	1-7/8"-12	3-7/16"	2-3/8"
′	F-A3755-32	F-A3750-32	2"	2-1/2"-12	4-3/16"	2-7/8"

All fittings conform to JIC Hydraulic Standards

Components & Accessories NUTS & SLEEVES

3205 • Tube Nut 3-Piece Type Used with 3165 Sleeve

0200 I UK	oc itut o-i ic	oc Type Os	ca with or	OS OICCVC
Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-3205-2	1/8"	5/16"-24	3/8"	17/32"
F-3205-3	3/16"	3/8"-24	1/2"	19/32"
F-3205-4	1/4"	7/16"-20	9/16"	5/8"
F-3205-5	5/16"	1/2"-20	5/8"	11/16"
F-3205-6	3/8"	9/16"-18	11/16"	23/32"
F-3205-8	1/2"	3/4"-16	7/8"	27/32"
F-3205-10	5/8"	7/8"-14	1"	31/32"
F-3205-12	3/4"	1-1/16"-12	1-1/4"	1-1/32"
F-3205-14	7/8"	1-3/16"-12	1-3/8"	1-3/32"
F-3205-16	1"	1-5/16"-12	1-1/2"	1-1/8"
F-3205-20	1-1/4"	1-5/8"-12	2"	1-7/32"
F-3205-24	1-1/2"	1-7/8"-12	2-1/4"	1-13/32"
F-3205-32	2"	2-1/2"-12	2-7/8"	1-3/4"

3165 • Tube Sleeve Used with 3205 Nut

Part #	Tube O.D.	Length
F-3165-2	1/8"	11/32"
F-3165-3	3/16"	11/32"
F-3165-4	1/4"	13/32"
F-3165-5	5/16"	7/16"
F-3165-6	3/8"	1/2"
F-3165-8	1/2"	9/16"
F-3165-10	5/8"	21/32"
F-3165-12	3/4"	11/16"
F-3165-14	7/8"	3/4"
F-3165-16	1"	25/32"
F-3165-20	1-1/4"	29/32"
F-3165-24	1-1/2"	1-1/8"
F-3165-32	2"	1-3/16"





3165 • Tube Sleeve Used with 3205 Nut



2205-S 2-Piece Tube Short Nut



2205 2-Piece Tube Nut



2205S • 2-Piece Tube Short Nut

Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-2205S-4	1/4"	7/16"-20	9/16"	9/16"
F-2205S-5	5/16"	1/2"-20	5/8"	19/32"
F-2205S-6	3/8"	9/16"-18	11/16"	39/64"
F-2205S-8	1/2"	3/4"-16	7/8"	3/4"
F-2205S-10	5/8"	7/8"-14	1"	7/8"
F-2205S-12	3/4"	1-1/16"-12	1-1/4"	31/32"
F-2205S-14	7/8"	1-3/16"-12	1-3/8"	1-1/8"
F-2205S-16	1"	1-5/16"-12	1-1/2"	1-1/8"
F-2205S-20	1-1/4"	1-5/8"-12	2"	1-1/4"
F-2205S-24	1-1/2"	1-7/8"-12	2-1/4"	1-1/2"
F-2205S-32	2"	2-1/2"-12	2-7/8"	1-7/8"

2205 • 2-Piece Tube Nut

Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-2205-4	1/4"	7/16"-20	9/16"	23/32"
F-2205-5	5/16"	1/2"-20	5/8"	13/16"
F-2205-6	3/8"	9/16"-18	11/16"	7/8"
F-2205-8	1/2"	3/4"-16	7/8"	1-3/32"
F-2205-10	5/8"	7/8"-14	1"	1-9/32"
F-2205-12	3/4"	1-1/16"-12	1-1/4"	1-15/32"
F-2205-14	7/8"	1-3/16"-12	1-3/8"	1-11/16"
F-2205-16	1"	1-5/16"-12	1-1/2"	1-25/32"
F-2205-20	1-1/4"	1-5/8"-12	2"	2-3/32"
F-2205-24	1-1/2"	1-7/8"-12	2-1/4"	2-1/4"
F-2205-32	2"	2-1/2"-12	2-7/8"	3"



37° Flare Tube Fittings COMPONENTS

3208 37° Flare Bulkhead Nut



3208 • 37° Flare Bulkhead Nut

Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-3208-4	1/4"	7/16"-20	11/16"	1/4"
F-3208-5	5/16"	1/2"-20	3/4"	1/4"
F-3208-6	3/8"	9/16"-18	13/16"	17/64"
F-3208-8	1/2"	3/4"-16	1"	5/16"
F-3208-10	5/8"	7/8"-14	1-1/8"	23/32"
F-3208-12	3/4"	1-1/16"-12	1-3/8"	13/32"
F-3208-14	7/8"	1-3/16"-12	1-1/2"	13/32"
F-3208-16	1"	1-5/16"-12	1-5/8"	13/32"
F-3208-20	1-1/4"	1-5/8"-12	1-7/8"	13/32"
F-3208-24	1-1/2"	1-7/8"-12	2-1/8"	13/32"
F-3208-32	2"	2-1/2"-12	2-3/4"	13/32"

2205C • Cap Nut to Cap Flared Fitting Tube End



2205C • Cap Nut to Cap Flared Fitting Tube End

Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-2205C-2	1/8"	5/16"-24	3/8"	1/2"
F-2205C-3	3/16"	3/8"-24	1/2"	9/16"
F-2205C-4	1/4"	7/16"-20	9/16"	19/32"
F-2205C-5	5/16"	1/2"-20	5/8"	39/64"
F-2205C-6	3/8"	9/16"-18	11/16"	5/8"
F-2205C-8	1/2"	3/4"-16	7/8"	3/4"
F-2205C-10	5/8"	7/8"-14	1"	27/32"
F-2205C-12	3/4"	1-1/16"-12	1-1/4"	29/32"
F-2205C-14	7/8"	1-3/16"-12	1-3/8"	31/32"
F-2205C-16	1"	1-5/16"-12	1-1/2"	1-1/16"
F-2205C-20	1-1/4"	1-5/8"-12	2"	1-1/16"
F-2205C-24	1-1/2"	1-7/8"-12	1-1/4"	1-3/16"
F-2205C-32	2"	2-1/2"-12	2-7/8"	1-7/16"

3105P • Tube Plug Screws into Nut to Plug Line

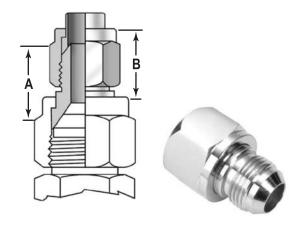


3105P • Tube Plug Screws Into Nut to Plug Line

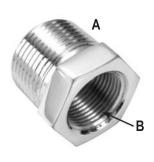
Part #	Tube O.D.	JIC Thread	Hex Size	Length
F-3105P-4	1/4"	7/16"-20	1/2"	47/64"
F-3105P-5	5/16"	1/2"-20	9/16"	49/64"
F-3105P-6	3/8"	9/16"-18	5/8"	13/16"
F-3105P-8	1/2"	3/4"-16	13/16"	15/16"
F-3105P-10	5/8"	7/8"-14	15/16"	1-7/64"
F-3105P-12	3/4"	1-1/16"-12	1-1/8"	1-13/64"
F-3105P-14	7/8"	1-3/16"-12	1-1/4"	1-15/64"
F-3105P-16	1"	1-5/16"-12	1-3/8"	1-9/32"
F-3105P-20	1-1/4"	1-5/8"-12	1-11/16"	1-25/64"
F-3105P-24	1-1/2"	1-7/8"-12	2"	1-31/64"
F-3105P-32	2"	2-1/2"-12	2-5/8"	2-3/64"

Adapters STEEL PIPE FITTINGS

3140 Flare Tube End Reducers



HB **Hex Bushings**



F-3145 / F-3140 • Flare Tube End Reducers

Tube End

Reduction

5/16" to 1/4'

"A" Length "B" Length

Flare Noses Shoulders

13/16"

Between Between Nut

23/32"

F-3145-5-4 F-3145-6-4 F-3140-6-4 3/8" to 1/4" 29/32" 27/32" F-3145-8-4 F-3140-8-4 1/2" to 1/4" 29/32 25/32 F-3145-8-5 F-3140-8-5 1/2" to 5/16" 29/32" 27/32 F-3145-8-6 F-3140-8-6 1/2" to 3/8" 29/32" 27/32" 3/4" F-3145-10-4 F-3140-10-4 5/8" to 1/4" 15/16" F-3145-10-6 F-3140-10-6 5/8" to 3/8" 15/16" 13/16" F-3145-10-8 1" 31/32" F-3140-10-8 5/8" to 1/2" 31/32" 7/8" F-3145-12-4 F-3140-12-4 3/4" to 1/4" F-3140-12-6 3/4" to 3/8" 31/32" 29/32" F-3145-12-6 F-3145-12-8 F-3140-12-8 3/4" to 1/2' 1-1/16' 1-1/32" 1-1/32' F-3145-12-10 F-3140-12-10 3/4" to 5/8' 1-1/8" F-3145-14-6 F-3140-14-6 1" 7/8" 7/8" to 3/8' 1-3/32' 1" F-3145-14-8 F-3140-14-8 7/8" to 1/2" F-3140-14-10 7/8" to 5/8' 1-3/16' 1-5/32" F-3145-14-10 1-7/32" F-3145-14-12 F-3140-14-12 7/8" to 3/4" 1-3/16" F-3140-16-5 1" to 5/16" 1" 29/32" F-3145-16-5 1-1/32' 7/8" F-3145-16-6 F-3140-16-6 1" to 3/8" F-3140-16-8 1-5/32' 1-1/32" 1" to 1/2" F-3145-16-8 1" to 5/8" 1-1/4" 1-3/16' F-3145-16-10 F-3140-16-10 F-3145-16-12 F-3140-16-12 1" to 3/4" 1-11/32 1-1/4" F-3140-20-8 1-3/16' 1-1/8 F-3145-20-8 1-1/4" to 1/2 F-3145-20-12 F-3140-20-12 1-1/4" to 3/4" 1-13/32 1-9/32 F-3145-20-16 F-3140-20-16 1-1/4" to 1" 1-7/16' 1-13/32

1-1/2" to 1/2"

1-1/2" to 5/8"

1-1/2" to 3/4"

1-1/2" to 1"

1-1/2" to 1-1/4'

2" to 1"

2" to 1-1/4"

2" to 1-1/2'

1-5/16'

1-1/2"

1-1/2"

1-11/16'

1-9/16'

1-9/16'

1-11/16'

1-13/16

1-1/16"

1-7/32"

1-1/4"

1-3/8"

1-7/16"

1-7/16"

1-1/2"

1-3/4"

HB • Hex Bushings

	"A" Male	"B" Female		
Part #	Pipe Thread	Pipe Thread	Hex Size	Length
F-4-2HB	1/4"	1/8"	5/8"	27/32"
F-6-2HB	3/8"	1/8"	3/4"	27/32"
F-6-4HB	3/8"	1/4"	3/4"	27/32"
F-8-2HB	1/2"	1/8"	7/8"	1-7/64"
F-8-4HB	1/2"	1/4"	7/8"	1-7/64"
F-8-6HB	1/2"	3/8"	7/8"	1-7/64"
F-12-2HB	3/4"	1/8"	1-1/8"	1-3/16"
F-12-4HB	3/4"	1/4"	1-1/8"	1-3/16"
F-12-6HB	3/4"	3/8"	1-1/8"	1-3/16"
F-12-8HB	3/4"	1/2"	1-1/8"	1-11/64"
F-16-4HB	1"	1/4"	1-3/8"	1-23/64"
F-16-6HB	1"	3/8"	1-3/8"	1-23/64"
F-16-8HB	1"	1/2"	1-3/8"	1-23/64"
F-16-12HB	1"	3/4"	1-3/8"	1-23/64"
F-20-4HB	1-1/4"	1/4"	1-3/4"	1-15/32"
F-20-6HB	1-1/4"	3/8"	1-3/4"	1-15/32"
F-20-8HB	1-1/4"	1/2"	1-3/4"	1-15/32"
F-20-12HB	1-1/4"	3/4"	1-3/4"	1-15/32"
F-20-16HB	1-1/4"	1"	1-3/4"	1-15/32"
F-24-4HB	1-1/2"	1/4"	2"	1-37/64"
F-24-6HB	1-1/2"	3/8"	2"	1-37/64"
F-24-8HB	1-1/2"	1/2"	2"	1-37/64"
F-24-12HB	1-1/2"	3/4"	2"	1-37/64"
F-24-16HB	1-1/2"	1"	2"	1-37/64"
F-24-20HB	1-1/2"	1-1/4"	2"	1-37/64"
F-32-6HB	2"	3/8"	2-1/2"	1-3/4"
F-32-8HB	2"	1/2"	2-1/2"	1-3/4"
F-32-12HB	2"	3/4"	2-1/2"	1-3/4"
F-32-16HB	2"	1"	2-1/2"	1-3/4"
F-32-20HB	2"	1-1/4"	2-1/2"	1-3/4"
F-32-24HB	2"	1-1/2"	2-1/2"	1-3/4"

Reducer

Part #

F-3140-5-4

F-3140-24-8

F-3140-24-10

F-3140-24-12

F-3140-24-16

F-3140-24-20

F-3140-32-16

F-3140-32-20

F-3140-32-24

Only

F-3145-24-8

F-3145-24-10

F-3145-24-12

F-3145-24-16

F-3145-24-20

F-3145-32-16

F-3145-32-20

F-3145-32-24



RPN Reducing Pipe Nipples



PRC Pipe Reducing Connectors



RPN • Reducing Pipe Nipples

	"A" Male	"B" Male		
Part #	Pipe Thread	Pipe Thread	Hex Size	Length
F-2-4RPN	1/8"	1/4"	9/16"	1-7/32"
F-2-6RPN	1/8"	3/8"	11/16"	1-1/4"
F-4-6RPN	1/4"	3/8"	11/16"	1-13/32"
F-4-8RPN	1/4"	1/2"	7/8"	1-5/8"
F-6-8RPN	3/8"	1/2"	7/8"	1-5/8"
F-6-12RPN	3/8"	3/4"	1-1/16"	1-11/16"
F-8-12RPN	1/2"	3/4"	1-1/16"	1-7/8"
F-8-16RPN	1/2"	1"	1-3/8"	2-3/32"
F-12-16RPN	3/4"	1"	1-3/8"	2-3/32"
F-12-20RPN	3/4"	1-1/4"	1-3/4"	2-5/32"
F-16-20RPN	1"	1-1/4"	1-3/4"	2-11/32"
F-16-24RPN	1"	1-1/2"	2"	2-7/16"
F-20-24RPN	1-1/4"	1-1/2"	2"	2-15/32"
F-20-32RPN	1-1/4"	2"	2-1/2"	2-21/32"
F-24-32RPN	1-1/2"	2"	2-1/2"	2-11/16"
1 -Z-1-0ZIXI IN	1-1/2		Z-1/Z	Z-11/10

PRC • Pipe Reducing Connectors

	"A" Male	"B" Female		
Part #	Pipe Thread	Pipe Thread	Hex Size	Length
F-2-4PRC	1/8"	1/4"	3/4"	1-3/32"
F-2-6PRC	1/8"	3/8"	7/8"	1-9/32"
F-4-4PRC	1/4"	1/4"	3/4"	1-5/16"
F-4-2PRC	1/4"	1/8"	5/8"	1"
F-4-6PRC	1/4"	3/8"	7/8"	1-1/2"
F-4-8PRC	1/4"	1/2"	1-1/8"	1-5/8"
F-6-6PRC	3/8"	3/8"	7/8"	1-3/8"
F-6-4PRC	3/8"	1/4"	3/4"	1-1/4"
F-6-8PRC	3/8"	1/2"	1-1/8"	1-5/8"
F-6-12PRC	3/8"	3/4"	1-3/8"	1-3/4"
F-8-8PRC	1/2"	1/2"	1-1/8"	1-13/16"
F-8-4PRC	1/2"	1/4"	7/8"	1-1/2"
F-8-6PRC	1/2"	3/8"	7/8"	1-11/16"
F-8-12PRC	1/2"	3/4"	1-3/8"	1-15/16"
F-8-16PRC	1/2"	1"	1-5/8"	2-3/16"
F-12-12PRC	3/4"	3/4"	1-3/8"	1-27/32"
F-12-6PRC	3/4"	3/8"	1-1/16"	1-1/2"
F-12-8PRC	3/4"	1/2"	1-1/8"	1-9/16"
F-12-16PRC	3/4"	1"	1-5/8"	2-3/16"
F-12-20PRC	3/4"	1-1/4"	2"	2-11/32"
F-16-16PRC	1"	1"	1-5/8"	2-1/4"
<u>F-16-8PRC</u>	1"	1/2"	1-3/8"	1-5/8"
F-16-12PRC	1"	3/4"	1-3/8"	1-15/16"
F-16-20PRC	1"	1-1/4"	2"	2-13/32"
F-20-20PRC	1-1/4"	1-1/4"	2"	2-3/8"
F-20-12PRC	1-1/4"	3/4"	1-3/4"	2"
F-20-16PRC	1-1/4"	1"	1-3/4"	2-1/8"
F-20-24PRC	1-1/4"	1-1/2"	2-3/8"	2-9/16"
F-24-24PRC	1-1/2"	1-1/2"	2-3/8"	2-13/32"
F-24-20PRC	1-1/2"	1-1/4"	2"	2-1/4"
F-24-32PRC	1-1/2"	2"	3"	2-3/4"
F-32-32PRC	2"	2"	3"	2-3/4"
F-32-20PRC	2"	1-1/4"	2-1/2"	2-3/8"

PN • Pipe Nipples

	Male			
Part #	Pipe Thread	Hex Size	Length	Bore
F-2PN	1/8"	7/16"	15/16"	3/16"
F-4PN	1/4"	9/16"	1-3/8"	9/32"
F-6PN	3/8"	11/16"	1-13/32"	13/32"
F-8PN	1/2"	7/8"	1-13/16"	35/64"
F-12PN	3/4"	1-1/16"	1-7/8"	23/32"
F-16PN	1"	1-3/8"	2-7/32"	15/16"
F-20PN	1-1/4"	1-3/4"	2-13/32"	1-1/4"
F-24PN	1-1/2"	2"	2-19/32"	1-15/32"
F-32PN	2"	2-1/2"	2-13/16"	1-3/4"

FPE • Female Pipe Elbows

	"A" Female	"B" Female	"C" Female	"D" Female
Part #	Pipe Thread	Pipe Thread	Pipe Leg	Pipe Leg
F-2-2FPE	1/8"	1/8"	21/32"	21/32"
F-2-4FPE	1/8"	1/4"	25/32"	29/32"
F-2-6FPE	1/8"	3/8"	27/32"	31/32"
F-4-4FPE	1/4"	1/4"	29/32"	29/32"
F-4-6FPE	1/4"	3/8"	31/32"	31/32"
F-4-8FPE	1/4"	1/2"	1-1/32"	1-1/4"
F-6-6FPE	3/8"	3/8"	31-32"	31/32"
F-6-8FPE	3/8"	1/2"	1-1/32"	1-1/4"
F-6-12FPE	3/8"	3/4"	1-5/32"	1-11/32"
F-8-8FPE	1/2"	1/2"	1-1/4"	1-1/4"
F-8-12FPE	1/2"	3/4"	1-3/8"	1-11/32"
F-8-16FPE	1/2"	1"	1-9/16"	1-5/8"
F-12-12FPE	3/4"	3/4"	1-11/32"	1-11/32"
F-12-16FPE	3/4"	1"	1-17/32"	1-5/8"
F-12-20FPE	3/4"	1-1/4"	1-23/32"	1-11/16"
F-16-16FPE	1"	1"	1-5/8"	1-5/8"
F-16-20FPE	1"	1-1/4"	1-13/16"	1-11/16"
F-16-24FPE	1"	1-1/2"	1-15/16"	2-1/16"
F-20-20FPE	1-1/4"	1-1/4"	1-11/16"	1-11/16"
F-20-24FPE	1-1/4"	1-1/2"	1-13/16"	2-1/16"
F-24-24FPE	1-1/4"	1-1/2"	2-1/16"	2-1/16"
F-32-32FPE	2"	2"	2-3/8"	2-3/8"

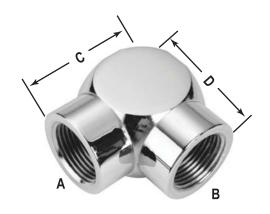
MPE • Male Pipe Elbows

Dowt #	"A" Male	"B" Male	"C" Male	"D" Male
Part #	Pipe Thread	Pipe Thread	Pipe Leg	Pipe Leg
F-2-2MPE	1/8"	1/8"	25/32"	25/32"
F-2-4MPE	1/8"	1/4"	27/32"	1-3/32"
F-4-4MPE	1/4"	1/4"	1-3/32"	1-3/32"
F-4-6MPE	1/4"	3/8"	1-5/32"	1-7/32"
F-6-6MPE	3/8"	3/8"	1-7/32"	1-7/32"
F-6-8MPE	3/8"	1/2"	1-9/32"	1-15/32"
F-8-8MPE	1/2"	1/2"	1-15/32"	1-15/32"
F-8-12MPE	1/2"	3/4"	1-19/32"	1-19/32"
F-12-12MPE	3/4"	3/4"	1-19/32"	1-19/32"
F-12-16MPE	3/4"	1"	1-23/32"	1-31/32"
F-16-16MPE	1"	1"	1-31/32"	1-31/32"
F-20-20MPE	1-1/4"	1-1/4"	2-3/8"	2-3/8"
F-24-24MPE	1-1/2"	1-1/2"	2-5/8"	2-5/8"
F-32-32MPE	2"	2"	3"	3"

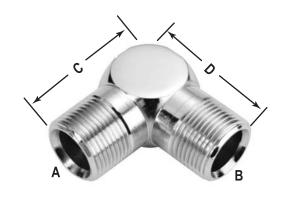
PN Pipe Nipples



FPE Female Pipe Elbows



MPE Male Pipe Elbows





SE Street Elbows



45SE 45° Street Elbows



MPT Male Pipe Tee



PT Pipe Tees



SE • Street Elbows

Part #	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
F-2-2SE	1/8"	1/8"	13/16"	21/32"
F-2-4SE	1/8"	1/4"	15/16"	29/32"
F-2-6SE	1/8"	3/8"	1"	31/32"
F-4-4SE	1/4"	1/4"	1-3/16"	29/32"
F-4-2SE	1/4"	1/8"	1-1/16"	21/32"
F-4-6SE	1/4"	3/8"	1-1/4"	31/32"
F-6-6SE	3/8"	3/8"	1-5/16"	31/32"
F-6-4SE	3/8"	1/4"	1-3/16"	29/32"
F-6-8SE	3/8"	1/2"	1-3/8"	1-1/4"
F-8-8SE	1/2"	1/2"	1-1/2"	1-1/4"
F-8-6SE	1/2"	3/8"	1-7/16"	31/32"
F-8-12SE	1/2"	3/4"	1-5/8"	1-11/32"
F-12-12SE	3/4"	3/4"	1-21/32"	1-11/32"
F-12-8SE	3/4"	1/2"	1-17/32"	1-1/4"
F-12-16SE	3/4"	1"	1-25/32"	1-5/8"
F-16-16SE	1"	1"	2-1/16"	1-5/8"
F-16-12SE	1"	3/4"	1-7/8"	1-11/32"
F-16-20SE	1"	1-1/4"	2-9/32"	1-11/16"
F-20-20SE	1-1/4"	1-1/4"	2-1/2"	1-11/16"
F-24-24SE	1-1/2"	1-1/2"	2-3/4"	2-1/16"
F-32-32SE	2"	2"	3-1/8"	2-3/8"

45SE • 45° Street Elbows

Part #	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
F-2-45SE	1/8"	1/8"	11/16"	5/8"
F-4-45SE	1/4"	1/4"	15/16"	27/32"
F-6-45SE	3/8"	3/8"	1"	31/32"
F-8-45SE	1/2"	1/2"	1-1/4"	1-3/32"
F-12-45SE	3/4"	3/4"	1-11/32"	1-1/4"
F-16-45SE	1"	1"	1-11/16"	1-7/16"
F-20-45SE	1-1/4"	1-1/4"	1-13/16"	1-5/8"
F-24-45SE	1-1/2"	1-1/2"	1-31/32"	1-11/16"
F-32-45SE	2"	2"	2-15/32"	2-3/16"

MPT • Male Pipe Tee

Part #	"A" Male Pipe Thread	"A" Male Pipe Leg
F-2MPT	1/8"	25/32"
F-4MPT	1/4"	1-3/32"
F-6MPT	3/8"	1-7/32"
F-8MPT	1/2"	1-15/32"
F-12MPT	3/4"	1-19/32"
F-16MPT	1"	1-31/32"
F-20MPT	1-1/4"	2-3/8"

PT • Pipe Tees

Part #	"A" Female Pipe Thread	"A" Male Pipe Leg
F-2PT	1/8"	21/32"
F-4PT	1/4"	29/32"
F-6PT	3/8"	31/32"
F-8PT	1/2"	1-1/4"
F-12PT	3/4"	1-11/32"
F-16PT	1"	1-5/8"
F-20PT	1-1/4"	1-11/16"
F-24PT	1-1/2"	2-1/16"
F-32PT	2"	2-3/8"

ST • Street Tees

Part #	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
F-2ST	1/8"	1/8"	13/16"	21/32"
F-4ST	1/4"	1/4"	1-3/16"	29/32"
F-6ST	3/8"	3/8"	1-5/16"	31/32"
F-8ST	1/2"	1/2"	1-1/2"	1-1/4"
F-12ST	3/4"	3/4"	1-21/32"	1-11/32"
F-16ST	1"	1"	2-1/16"	1-5/8"
F-20ST	1-1/4"	1-1/4"	2-1/2"	1-11/16"
F-24ST	1-1/2"	1-1/2"	2-3/4"	2-1/16"
F-32ST	2"	2"	3-1/8"	2-3/8"

Street Tees



ST

MST • Male Street Tee

Part #	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
F-2MST	1/8"	1/8"	13/16"	21/32"
F-4MST	1/4"	1/4"	1-3/16"	29/32"
F-6MST	3/8"	3/8"	1-5/16"	31/32"
F-8MST	1/2"	1/2"	1-1/2"	1-1/4"
F-12MST	3/4"	3/4"	1-21/32"	1-11/32"
F-16MST	1"	1"	2-1/16"	1-5/8"
F-20MST	1-1/4"	1-1/4"	2-1/2"	1-11/16"

MST Male Street Tee



FRT • Female Run Tee

Part #	Male Pipe Thread	Female Pipe Thread	"A" Male Pipe Leg	"B" Female Pipe Leg
F-2FRT	1/8"	1/8"	13/16"	21/32"
	1/0	1/0	13/10	
F-4FRT	1/4"	1/4"	1-3/16"	29/32"
F-6FRT	3/8"	3/8"	1-5/16"	31/32"
F-8FRT	1/2"	1/2"	1-1/2"	1-1/4"
F-12FRT	3/4"	3/4"	1-21/32"	1-11/32"
F-16FRT	1"	1"	1-5/8"	1-5/8"
F-20FRT	1-1/4"	1-1/4"	2-1/2"	1-11/16"
F-24FRT	1-1/2"	1-1/2"	2-3/4"	2-1/16"

FRT Female Run Tee



MRT • Male Run Tee

		Male	Female	"A" Male	"B" Female
	Part #	Pipe Thread	Pipe Thread	Pipe Leg	Pipe Leg
	F-2MRT	1/8"	1/8"	13/16"	21/32"
	F-4MRT	1/4"	1/4"	1-3/16"	29/32"
	F-6MRT	3/8"	3/8"	1-5/16"	31/32"
)	F-8MRT	1/2"	1/2"	1-1/2"	1-1/4"
	F-12MRT	3/4"	3/4"	1-21/32"	1-11/32"
l	F-16MRT	1"	1"	2-1/16"	1-5/8"
	F-20MRT	1-1/4"	1-1/4"	2-1/2"	1-11/16"

MRT Male Run Tee



Adapters PIPE FITTINGS

FPC Female Pipe Cross



FPC • Female Pipe Cross

Part #	Female Pipe Thread	"A" Female Pipe Leg
F-2FPC	1/8"	21/32"
F-4FPC	1/4"	29/32"
F-6FPC	3/8"	31/32"
F-8FPC	1/2"	1-1/4"
F-12FPC	3/4"	1-11/32"
F-16FPC	1"	1-5/8"
F-20FPC	1-1/4"	1-11/16"
F-24FPC	1-1/2"	2-1/16"
F-32FPC	2"	2-3/8"

PC Pipe Couplings



PC • Pipe Couplings

	Female		
Part #	Pipe Thread	Hex Size	Length
F-2PC	1/8"	5/8"	7/8"
F-4PC	1/4"	3/4"	1-1/8"
F-6PC	3/8"	15/16"	1-7/32"
F-8PC	1/2"	1-1/8"	1-5/8"
F-12PC	3/4"	1-3/8"	1-11/16"
F-16PC	1"	1-5/8"	1-15/16"
F-20PC	1-1/4"	2"	2"
F-24PC	1-1/2"	2-3/8"	2-1/16"
F-32PC	2"	3"	2-1/16"

RPC Reducing Pipe Couplings



RPC • Reducing Pipe Couplings

Part #	"A" Female Pipe Thread	"B" Female Pipe Thread	Hex Size	Length
F-4-2RPC	1/4"	1/8"	3/4"	1"
F-6-4RPC	3/8"	1/4"	1"	1-3/16"
F-8-4RPC	1/2"	1/4"	1-1/8"	1-15/32"
F-8-6RPC	1/2"	3/8"	1-1/8"	1-15/32"
F-12-8RPC	3/4"	1/2"	1-3/8"	1-21/32"

PU Pipe Unions



PU • Pipe Unions

	Female		
Part #	Pipe Thread	Hex Size	Length
F-2PU	1/8"	1-1/8"	1-11/16"
F-4PU	1/4"	1-3/8"	1-27/32"
F-6PU	3/8"	1-5/8"	2"
F-8PU	1/2"	1-7/8"	2-3/16"
F-12PU	3/4"	2-1/8"	2-11/32"
F-16PU	1"	2-3/8"	2-1/2"
F-20PU	1-1/4"	2-7/8"	2-5/8"
F-24PU	1-1/2"	3-1/4" OCT.	2-15/16"
F-32PU	2"	4" OCT.	3-1/4"

Adapters PIPE FITTINGS

HHP • Hollow Hex Plugs

	Male		
Part #	Pipe Thread	Internal Hex	Length
F-2HHP	1/8"	3/16"	3/8"
F-4HHP	1/4"	1/4"	7/16"
F-6HHP	3/8"	5/16"	1/2"
F-8HHP	1/2"	3/8"	9/16"
F-12HHP	3/4"	9/16"	5/8"
F-16HHP	1"	5/8"	3/4"
F-20HHP	1-1/4"	3/4"	13/16"
F-24HHP	1-1/2"	1"	53/64"
F-32HHP	2"	1"	15/16"

HP • Hex Plugs

	Male		
Part #	Pipe Thread	Hex Size	Length
F-2HP	1/8"	7/16"	9/16"
F-4HP	1/4"	5/8"	25/32"
F-6HP	3/8"	3/4"	25/32"
F-8HP	1/2"	7/8"	31/32"
F-12HP	3/4"	1-1/8"	1-1/16"
F-16HP	1"	1-3/8"	1-1/4"
F-20HP	1-1/4"	1-3/4"	1-5/16"
F-24HP	1-1/2"	2"	1-5/16"
F-32HP	2"	2-1/2"	1-3/4"

SHP • Square Head Plugs

	Male		
Part #	Pipe Thread	Square Size	Length
F-2SHP	1/8"	9/32"	5/8"
F-4SHP	1/4"	3/8"	25/32"
F-6SHP	3/8"	7/16"	13/16"
F-8SHP	1/2"	9/16"	1-1/32"
F-12SHP	3/4"	5/8"	1-1/16"
F-16SHP	1"	13/16"	29-32"

SPN • Seamless Pipe Nipples

Part #	Male Pipe Thread	"L" Close Nipple Length	Length* to 6"x1/2" Increments
F-2SPN x L	1/8"	3/4"	1-1/2"-6"
F-4SPN x L	1/4"	7/8"	1-1/2"-6"
F-6SPN x L	3/8"	1"	1-1/2"-6"
F-8SPN x L	1/2"	1-1/8"	1-1/2"-6"
F-12SPN x L	3/4"	1-3/8"	2"-6"
F-16SPN x L	1"	1-1/2"	2"-6"
F-20SPN x L	1-1/4"	1-5/8"	2"-6"
F-24SPN x L	1-1/2"	1-3/4"	2-1/2"-6"
F-32SPN x L	2"	2"	2-1/2"-6"

^{*} Example of Part Number: F-8SPN x 3"

HHP Hollow Hex Plugs



HP Hex Plugs



SHP Square Head Plugs



SPN Seamless Pipe Nipples Extra Heavy Pipe



a g e



Adapters STRAIGHT THREADS

AAU SAE Male Union



AAU • SAE Male x SAE Male Union

Part #	"A" Straight Thread Male	"B" Straight Thread Male	Overall Length
F-2-AAU	7/16"-20	7/16"-20	1-7/32"
F-6-AAU	9/16"-18	9/16"-18	1-13/32"
F-8-AAU	3/4"-16	3/4"-16	1-9/16"
F-10-AAU	7/8"-14	7/8"-14	1-13/16"
F-12-AAU	1-1/16"-12	1-1/16"-12	2-1/8"
F-16-AAU	1-5/16"-12	1-5/16"-12	2-1/8"
F-20-AAU	1-5/8"-12	1-5/8"-12	2-1/8"
F-24-AAU	1-7/8"-12	1-7/8"-12	2-27/64"
F-32-AAU	2-1/2"-12	2-1/2"-12	2-19/32"

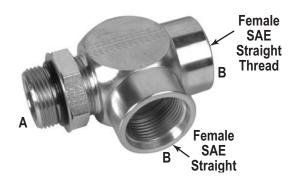
ASE SAE Male x Female Pipe Elbow



ASE • SAE Male x Female Pipe Elbow

Part #	"A" Straight Thread Male	"B" Female Pipe NPT
F-4-4ASE	7/16"-20	1/4" NPT
F-6-6ASE	9/16"-18	3/8" NPT
F-8-8ASE	3/4"-16	1/2" NPT
F-12-12ASE	1-1/16"-12	3/4" NPT
F-16-16ASE	1-5/16"-12	1" NPT
F-20-20ASE	1-5/8"-12	1-1/4" NPT
F-24-24ASE	1-7/8"-12	1-1/2" NPT
F-32-32ASE	2-1/2"-12	2" NPT

AST SAE Male x SAE Female x SAE Female



AST • SAE Male x SAE Female x SAE Female

		"B" Straight
Part #	"A" Straight Thread Male	Thread Female SAE
F-4-4AST	7/16"-20	7/16"-20
F-6-6AST	9/16"-18	9/16"-18
F-8-8AST	3/4"-16	3/4"-16
F-12-12AST	1-1/16"-12	1-1/16"-12
F-16-16AST	1-5/16"-12	1-5/16"-12
F-20-20AST	1-5/8"-12	1-5/8"-12
F-24-24AST	1-7/8"-12	1-7/8"-12
F-32-32AST	2-1/2"-12	2-1/2"-12

AHHP "O"-Ring Hollow Hex Plug



AHHP • "O"-Ring Hollow Hex Plug

Part #	Male Straight Thread	Length	
F-4-AHHP	7/16"-20	15/32"	
F-6-AHHP	9/16"-18	1/2"	
F-8-AHHP	3/4"-16	37/64"	_ P
F-10-AHHP	7/8"-14	37/64"	_
F-12-AHHP	1-1/16"-12	49/64"	– a
F-16-AHHP	1-5/16"-12	49/64"	_ g
F-20-AHHP	1-5/8"-12	49/64"	
F-24-AHHP	1-7/8"-12	49/64"	– е
F-32-AHHP	2-1/2"-12	49/64"	

Adapters STRAIGHT THREADS

STP • SAE Straight Thread Plug

Part #	Male Straight Thread	Length
F-4STP	7/16"-20	43/64"
F-5STP	1/2"-20	43/64"
F-6STP	9/16"-18	47/64"
F-8STP	3/4"-16	51/64"
F-10STP	7/8"-14	15/16"
F-12STP	1-1/16"-12	1-3/32"
F-14STP	1-3/16"-12	1-3/32"
F-16STP	1-5/16"-12	1-13/64"
F-20STP	1-5/8"-12	1-13/64"
F-24STP	1-7/8"-12	1-17/64"
F-32STP	2-1/2"-12	1-7/16"

STP SAE Straight Thread Plug with "O"-Ring to Plug Straight Thread Boss

(Not counter-bored)



PAC • Male Pipe Thread to SAE Straight Thread Port Connector

	"A" Male	"B" Female	Overall
Part #	Pipe Thread	Straight Thread	Length
F-2-4PAC	1/8"	7/16"-20	1-3/8"
F-2-5PAC	1/8"	1/2"-20	1-3/8"
F-4-6PAC	1/4"	9/16"-18	1-9/16"
F-6-8PAC	3/8"	3/4"-16	1-9/16"
F-8-10PAC	1/2"	7/8"-14	1-13/16"
F-12-12PAC	3/4"	1-1/16"-12	1-31/32"
F-12-14PAC	3/4"	1-3/16"-12	2-1/32"
F-16-16PAC	1"	1-5/16"-12	2-5/32"
F-20-20PAC	1-1/4"	1-5/8"-12	2-1/4"
F-24-24PAC	1-1/2"	1-7/8"-12	2-9/32"
F-32-32PAC	2"	2-1/2"-12	2-5/16"

PAC
Male Pipe Thread to SAE Straight Thread
Port Connector



APN • Male Connector SAE Straight Thread to Male Pipe Thread

		"A" Male	"B" Male	Overall
	Part #	Straight Thread	Pipe Thread	Length
	F-4-2APN	7/16"-20	1/8"	1"
	F-4-4APN	7/16"-20	1/4"	1-3/16"
	F-5-2APN	1/2"-20	1/8"	1"
	F-5-4APN	1/2"-20	1/4"	1-3/16"
	F-6-4APN	9/16"-18	1/4"	1-1/4"
	F-6-2APN	9/16"-18	1/8"	1-1/32"
	F-6-6APN	9/16"-18	3/8"	1-1/4"
	F-8-6APN	3/4"-16	3/8"	1-5/16"
	F-8-8APN	3/4"-16	1/2"	1-17/32"
)	F-10-8APN	7/8"-14	1/2"	1-9/16"
	F-12-12APN	1-1/16"-12	3/4"	1-3/4"
l	F-14-12APN	1-3/16"-12	3/4"	1-3/4"
	F-16-16APN	1-5/16"-12	1"	1-15/16"
J	F-20-20APN	1-5/8"-12	1-1/4"	2"
À	F-24-24APN	1-7/8"-12	1-1/2"	2-1/16"
	F-32-32APN	2-1/2"-12	2"	2-5/32"

APN
Male Connector SAE Straight Thread
to Male Pipe Thread

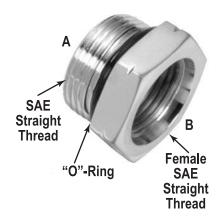


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Adapters STRAIGHT THREADS

ARC SAE Straight Thread to SAE Straight Thread Port Bushing



APC Female Connector SAE Straight Thread to Female Pipe Thread



ARC • SAE Straight Thread to SAE **Straight Thread Port Bushing**

	"A" Straight	"B" Straight	Overall
Part #	Thread Male	Thread Female	Length
F-4-6ARC	7/16"-20	9/16"-18	1-1/8"
F-6-4ARC	9/16"-18	7/16"-20	1-1/32"
F-6-8ARC	9/16"-18	3/4"-16	1-5/16"
F-8-4ARC	3/4"-16	7/16"-20	3/4"
F-8-6ARC	3/4"-16	9/16"-18	1-1/8"
F-10-8ARC	7/8"-14	3/4"-16	1-5/16"
F-10-12ARC	7/8"-14	1-1/16"-12	1-5/8"
F-12-8ARC	1-1/16"-12	3/4"-16	1"
F-12-10ARC	1-1/16"-12	7/8"-14	1-17/32"
F-14-6ARC	1-3/16"-12	9/16"-18	1"
F-14-10ARC	1-3/16"-12	7/8"-14	1"
F-14-12ARC	1-3/16"-12	1-1/16"-12	1-21/32"
F-16-8ARC	1-5/16"-12	3/4"-16	1"
F-16-12ARC	1-5/16"-12	1-1/16"-12	1"
F-16-14ARC	1-5/16"-12	1-3/16"-12	1-21/32"
F-16-20ARC	1-5/16"-12	1-5/8"-12	1-31/32"
F-20-10ARC	1-5/8"-12	7/8"-14	1"
F-20-12ARC	1-5/8"-12	1-1/16"-12	1"
F-20-16ARC	1-5/8"-12	1-5/16"-12	1"
F-20-24ARC	1-5/8"-12	1-7/8"-12	1-7/8"
F-24-16ARC	1-7/8"-12	1-5/16"-12	1"
F-24-20ARC	1-7/8"-12	1-5/8"-12	1-19/32"
F-32-20ARC	2-1/2"-12	1-5/8"-12	1"
F-32-24ARC	2-1/2"-12	1-7/8"-12	1"

APC • Female Connector SAE Straight Thread to Female Pipe Thread

	"A" Male	"B" Female	Overall	
Part #	Straight Thread	Pipe Thread	Length	
F-4-2APC	7/16"-20	1/8"	1"	
F-4-4APC	7/16"-20	1/4"	1-13/32"	
F-5-2APC	1/2"-20	1/8"	1"	
F-6-4APC	9/16"-18	1/4"	1-3/16"	
F-8-6APC	3/4"-16	3/8"	1-5/16"	
F-8-4APC	3/4"-16	1/4"	1-3/64"	
F-8-8APC	3/4"-16	1/2"	1-17/32"	
F-10-8APC	7/8"-14	1/2"	1-35/64"	
F-10-4APC	7/8"-14	1/4"	13/16"	
F-10-6APC	7/8"-14	3/8"	1-9/32"	
F-10-12APC	7/8"-14	3/4"	1-21/32"	
F-12-12APC	1-1/16"-12	3/4"	1-11/16"	
F-12-6APC	1-1/16"-12	3/8"	1"	
F-12-8APC	1-1/16"-12	1/2"	1-15/32"	
F-14-12APC	1-3/16"-12	3/4"	1-5/8"	
F-14-8APC	1-3/16"-12	1/2"	1"	
F-16-16APC	1-5/16"-12	1"	1-29/32"	
F-16-6APC	1-5/16"-12	3/8"	1"	
F-16-8APC	1-5/16"-12	1/2"	1"	P
F-16-12APC	1-5/16"-12	3/4"	1-11/16"	
F-20-20APC	1-5/8"-12	1-1/4"	2"	a
F-20-12APC	1-5/8"-12	3/4"	1"	g
F-20-16APC	1-5/8"-12	1"	1"	
F-24-24APC	1-7/8"-12	1-1/2"	2-3/32"	е
F-24-20APC	1-7/8"-12	1-1/4"	1-29/32"	
F-32-32APC	2-1/2"-12	2"	2-1/32"	20
				29

M-UAD • Male Union Swivel Adapter

	Male	Female	Deduct from
Part #	Pipe Thread	Swivel Thread	Assy. OAL
F-2M-2UAD	1/8"	1/8"	27/32"
F-2M-4UAD	1/8"	1/4"	1"
F-4M-4UAD	1/4"	1/4"	1-7/32"
F-4M-6UAD	1/4"	3/8"	1-9/32"
F-6M-4UAD	3/8"	1/4"	1-9/32"
F-6M-6UAD	3/8"	3/8"	1-9/32"
F-6M-8UAD	3/8"	1/2"	1-11/32"
F-8M-6UAD	1/2"	3/8"	1-1/2"
F-8M-8UAD	1/2"	1/2"	1-9/16"
F-8M-12UAD	1/2"	3/4"	1-5/8"
F-12M-8UAD	3/4"	1/2"	1-9/16"
F-12M-12UAD	3/4"	3/4"	1-5/8"
F-12M-16UAD	3/4"	1"	1-23/32"
F-16M-12UAD	1"	3/4"	1-7/8"
F-16M-16UAD	1"	1"	1-29/32"
F-16M-20UAD	1"	1-1/4"	2"
F-20M-20UAD	1-1/4"	1-1/4"	2-1/32"
F-20M-24UAD	1-1/4"	1-1/2"	2-1/16"
F-24M-24UAD	1-1/2"	1-1/2"	2-3/32"
F-32M-32UAD	2"	2"	2-9/32"

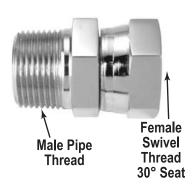
F-UAD • Female Union Swivel Adapter

-	Female	Female	Deduct from
Part #	Pipe Thread	Swivel Thread	Assy. OAL
F-2F-2UAD	1/8"	1/8"	3/4"
F-4F-4UAD	1/4"	1/4"	1-3/16"
F-6F-4UAD	3/8"	1/4"	1-7/32"
F-6F-6UAD	3/8"	3/8"	1-7/32"
F-8F-4UAD	1/2"	1/4"	1-5/16"
F-8F-6UAD	1/2"	3/8"	1-11/32"
F-8F-8UAD	1/2"	1/2"	1-13/32"
F-12F-12UAD	3/4"	3/4"	1-9/16"
F-16F-12UAD	1"	3/4"	1-25/32"
F-16F-16UAD	1"	1"	1-15/16"
F-20F-20UAD	1-1/4"	1-1/4"	1-15/16"
F-24F-24UAD	1-1/2"	1-1/2"	1-15/16"
F-32F-32UAD	2"	2"	2-3/8"

FE-UAD • Female Union Elbow Swivel Adapter

	Female	Female	Deduct from
Part #	Pipe Thread	Swivel Thread	Assy. OAL
F-2FE-2UAD	1/8"	1/8"	13/32"
F-4FE-4UAD	1/4"	1/4"	3/4"
F-6FE-6UAD	3/8"	3/8"	7/8"
F-8FE-8UAD	1/2"	1/2"	15/16"
F-12FE-12UAD	3/4"	3/4"	1-3/16"
F-16FE-16UAD	1"	1"	1-5/16"
F-20FE-20UAD	1-1/4"	1-1/4"	1-1/2"
F-24FE-24UAD	1-1/2"	1-1/2"	1-5/8"

M-UAD • Male Union Swivel Adapter Male Pipe to Female NPSM Swivel



F-UAD Female Union Swivel Adapter Female Pipe to Female NPSM Swivel



FE-UAD Female Union Elbow Swivel Adapter Female Pipe to Female NPSM Swivel



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ME-UAD Male Union Elbow Swivel Adapter Male Pipe to Female NPSM Swivel



ME-UAD • Male Union Elbow Swivel Adapter

Dowf #	Male	Female	Deduct from
Part #	Pipe Thread	Swivel Thread	Assy. OAL
F-2ME-2UAD	1/8"	1/8"	17/32"
F-2ME-4UAD	1/8"	1/4"	11/16"
F-4ME-4UAD	1/4"	1/4"	3/4"
F-4ME-6UAD	1/4"	3/8"	7/8"
F-6ME-4UAD	3/8"	1/4"	7/8"
F-6ME-6UAD	3/8"	3/8"	7/8"
F-6ME-8UAD	3/8"	1/2"	15/16"
F-8ME-4UAD	1/2"	1/4"	29/32"
F-8ME-6UAD	1/2"	3/8"	15/16"
F-8ME-8UAD	1/2"	1/2"	15/16"
F-8ME-12UAD	1/2"	3/4"	1-3/16"
F-12ME-6UAD	3/4"	3/8"	1-1/32"
F-12ME-8UAD	3/4"	1/2"	1-1/16"
F-12ME-12UAD	3/4"	3/4"	1-3/16"
F-16ME-8UAD	1"	1/2"	1-1/8"
F-16ME-12UAD	1"	3/4"	1-5/16"
F-16ME-16UAD	1"	1"	1-5/16"
F-16ME-20UAD	1"	1-1/4"	1-1/2"
F-20ME-20UAD	1-1/4"	1-1/4"	1-1/2"
F-24ME-20UAD	1-1/2"	1-1/4"	1-5/8"
F-24ME-24UAD	1-1/2"	1-1/2"	1-5/8"
F-32ME-32UAD	2"	2"	2"

SM-UAD SAE Straight Thread Male Union Adapter Male SAE Thread to Female NPSM Swivel



SM-UAD • SAE Straight Thread Male

	SAE Straight	Female	Deduct from
Part #	Thread	Swivel Thread	Assy. OAL
F-4SM-4UAD	7/16"-20	1/4"	1"
F-5SM-4UAD	1/2"-20	1/4"	1"
F-6SM-4UAD	9/16"-18	1/4"	1-1/32"
F-6SM-6UAD	9/16"-18	3/8"	1-3/32"
F-6SM-8UAD	9/16"-18	1/2"	1-1/4"
F-8SM-4UAD	3/4"-16	1/4"	1-3/32"
F-8SM-6UAD	3/4"-16	3/8"	1-1/8"
F-8SM-8UAD	3/4"-16	1/2"	1-1/4"
F-8SM-12UAD	3/4"-16	3/4"	1-3/8"
F-10SM-6UAD	7/8"-14	3/8"	1-1/8"
F-10SM-8UAD	7/8"-14	1/2"	1-5/16"
F-10SM-12UAD	7/8"-14	3/4"	1-3/8"
F-12SM-8UAD	1-1/6"-12	1/2"	1-13/32"
F-12SM-12UAD	1-1/6"-12	3/4"	1-15/32"
F-14SM-12UAD	1-3/16"-12	3/4"	1-1/2"
F-16SM-16UAD	1-3/16"-12	1"	1-1/2"
F-20SM-16UAD	1-5/8"-12	1"	1-17/32"
F-20SM-20UAD	1-5/8"-12	1-1/4"	1-17/32"
F-24SM-24UAD	1-7/8"-12	1-1/2"	1-11/16"

SME-UAD • SAE Straight Thread Male Union Elbow

Part #	SAE Straight Thread	Female Swivel Thread	Deduct from Assy. OAL
F-4SME-4UAD	7/16"-20	1/4"	3/4"
F-6SME-4UAD	9/16"-18	1/4"	3/4"
F-6SME-6UAD	9/16"-18	3/8"	7/8"
F-6SME-8UAD	9/16"-18	1/2"	15/16"
F-8SME-6UAD	3/4"-16	3/8"	7/8"
F-8SME-8UAD	3/4"-16	1/2"	15/16"
F-8SME-12UAD	3/4"-16	3/4"	1-3/16"
F-10SME-6UAD	7/8"-14	3/8"	29/32"
F-10SME-8UAD	7/8"-14	1/2"	15/16"
F-10SME-12UAD	7/8"-14	3/4"	1-3/16"
F-12SME-8UAD	1-1/16"-12	1/2"	1"
F-12SME-12UAD	1-1/16"-12	3/4"	1-3/16"
F-14SME-12UAD	1-3/16"-12	3/4"	1-3/16"
F-16SME-16UAD	1-5/16"-12	1"	1-5/16"
F-16SME-12UAD	1-5/16"-12	3/4"	1-5/16"
F-20SME-20UAD	1-5/8"-12	1-1/4"	1-1/2"
F-20SME-12UAD	1-5/8"-12	3/4"	1-1/2"
F-24SME-24UAD	1-7/8"-12	1-1/2"	1-11/16"

SME-UAD SAE Straight Thread Male Union Elbow Swivel Adapter Male SAE Thread to Female NPSM Swivel



MT-UAD • Male Union Tee Swivel Adapter

Part #	Male Pipe Thread	Female Swivel Thread	Deduct from Assy. OAL
F-2MT-2UAD	1/8"	1/8"	17/32"
F-4MT-4UAD	1/4"	1/4"	3/4"
F-6MT-6UAD	3/8"	3/8"	7/8"
F-8MT-8UAD	1/2"	1/2"	15/16"
F-12MT-12UAD	3/4"	3/4"	1-3/16"
F-16MT-16UAD	1"	1"	1-5/16"
F-20MT-20UAD	1-1/4"	1-1/4"	1-1/2"

MT-UAD
Male Union Tee Swivel Adapter
Male Pipe Branch, Female NPSM
Swivels on Run



MEX-UAD • Male 45° Union Elbow Swivel Adapter

	Male Pipe	Female	Deduct from
Part #	Thread	Swivel Thread	Assy. OAL
F-2MEX-2UAD	1/8"	1/8"	7/16"
F-4MEX-4UAD	1/4"	1/4"	21/32"
F-6MEX-6UAD	3/8"	3/8"	11/16"
F-8MEX-8UAD	1/2"	1/2"	25/32"
F-8MEX-6UAD	1/2"	3/8"	25/32"
F-12MEX-12UAD	3/4"	3/4"	31/32"
F-12MEX-8UAD	3/4"	1/2"	7/8"
F-16MEX-16UAD	1"	1"	1-1/16"
F-16MEX-12UAD	1"	3/4"	1-1/32"
F-20MEX-20UAD	1-1/4"	1-1/4"	1-1/8"
F-24MEX-24UAD	1-1/2"	1-1/2"	1-7/32"

MEX-UAD
Male 45° Union Elbow Swivel Adapter
Male Pipe to Female NPSM Swivel



FT-UAD Female Union Tee Swivel Adapter Female Pipe to Female NPSM Swivel



FT-UAD • Female Union Tee Swivel Adapter

Part #	Female Pipe Thread	Female Swivel Thread	Deduct from Assy. OAL
F-4FT-4UAD	1/4"	1/4"	3/4"
F-6FT-6UAD	3/8"	3/8"	7/8"
F-8FT-8UAD	1/2"	1/2"	15/16"
F-12FT-12UAD	3/4"	3/4"	1-3/16"
F-16FT-16UAD	1"	1"	1-5/16"

T-UAD
Female Union Tee Swivel Adapter
Female Pipe Branch,
Female NPSM Swivels on Run



T-UAD • Female Union Tee Swivel Adapter

	Female Pipe	Female	Deduct from
Part #	Thread	Swivel Thread	Assy. OAL
F-2T-2UAD	1/8"	5/8"	17/32"
F-4T-4UAD	1/4"	7/8"	3/4"
F-6T-6UAD	3/8"	15/16"	7/8"
F-8T-8UAD	1/2"	1-1/16"	1-5/16"
F-12T-12UAD	3/4"	1-5/16"	1-3/16"
F-16T-16UAD	1"	1-15/32"	1-5/16"

FEX-UAD 45° Union Elbow Swivel Adapter Female Pipe to Female NPSM Swivel

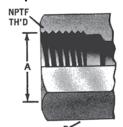


FEX-UAD • Female 45° Union Elbow Swivel Adapter

	Female Pipe	Female	Deduct from
Part #	Thread	Swivel Thread	Assy. OAL
F-4FEX-4UAD	1/4"	1/4"	21/32"
F-6FEX-6UAD	3/8"	3/8"	11/16"
F-8FEX-8UAD	1/2"	1/2"	25/32"
F-12FEX-12UAD	3/4"	3/4"	31/32"
F-16FEX-16UAD	1"	1"	1-1/16"

Available Fitting Ends-Types (SPECIFICATIONS & IDENTIFICATION)

Female Pipe Thread End (Dry Seal)

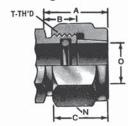


Size	Thread NPTF	"A"	"B" Hex Size (Str. Connectors)	"B" Dia. (Elbows, Tees, Crosses)
2	1/8"	13/32"	9/16", 5/8"	5/8"
4	1/4"	35/64"	3/4"	7/8"
6	3/8"	43/64"	7/8"	1"
8	1/2"	27/32"	1-1/8"	1-1/8"
12	3/4"	1-3/64"	1-3/8"	1-3/8"
16	1"	1-5/16"	1-5/8"	1-3/4"
20	1-1/4"	1-21/32"	2"	2-1/8"
24	1-1/2"	1-29/32"	2-3/8"	2-3/8"
32	2"	2-3/8"	3"	3"

"O"-Ring Seal End

Tube End with "O"-Ring seal, and tapered split-ring sleeve and nut for gripping the tubing.

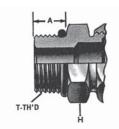
Includes nut, split ring, O-Ring and backup washer.



Size	I Thread	"A"	B	C	"N" Hex	"O" Bore
2	3/8"-24	9/16"	9/32"	15/16"	1/2"	1/8"
4	1/2"-20	23/32"	13/32"	41/64"	5/8"	1/4"
5	9/16"-18	23/32"	13/32"	41/64"	11/16"	5/16"
6	5/8"-18	25/32"	15/32"	11/16"	3/4"	3/8"
8	7/8"-14	31/32"	17/32"	29/32"	1"	1/2"
10	1"-14	1-3/32"	19/32"	31/32"	1-1/8"	5/8"
12	1-1/8"-12	1-7/32"	11/16"	1-3/32"	1-1/4"	3/4"
14	1-1/4"-12	1-1/4"	11/16"	1-1/8"	1-3/8"	7/8"
16	1-1/2"-12	1-13/32"	3/4"	1-7/32"	1-5/8"	1"
20	1-3/4"-12	1-21/32"	7/8"	1-7/16"	2"	1-1/4"
24	2"-12	1-25/32"	7/8"	1-5/8"	2-1/4"	1-1/2"
32	2-5/8"-12	2-5/32"	1"	2-1/16"	3"	2"

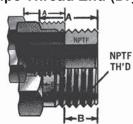
SAE Straight Thread "O"-Ring Type End

(Connectors)



For use with SAE Internal Thread "O"-Ring Boss

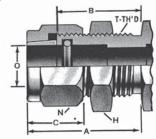
Male Pipe Thread End (Dry Seal)



Size	Thread NPTF	"A"	"B" Min. Full Thread
2	1/8"	24/64"	5/16"
4	1/4"	9/16"	15/32"
6	3/8"	9/16"	1/2"
8	1/2"	3/4"	21/32"
12	3/4"	3/4"	21/32"
16	1"	15/16"	25/32"
20	1-1/4"	31/32"	13/16"
24	1-1/2"	1"	13/16"
32	2"	1-1/32"	13/16"

"O"-Ring Seal Bulkhead End

Same features as
"O"-Ring Seal except
has provisions for
passing through a Bulkhead
and is held in Bulkhead by
a lock nut (1/2" Maximum
Bulkhead Thickness).



Size	e T Thread	"A"	"B"	"C"	"H" Hex	"N" Hex	"O" Bore
4	1/2"-20	1-15/32"	1-5/32"	41/64""	3/4"	5/8"	1/4"
5	9/16"-18	1-15/32"	1-5/32"	41/64"	13/16"	11/16"	5/16"
6	5/8"-18	1-9/16"	1-1/4"	11/16"	7/8"	3/4"	3/8"
8	7/8"-14	1-25/32"	1-11/32"	29/32"	1-1/8"	1"	1/2"
10	1"-14	1-31/32"	1-15/32"	31/32"	1-1/4"	1-1/8"	5/8"
12	1-1/8"-12	2-1/8"	1-19/32"	1-3/32"	1-3/8"	1-1/4"	3/4"
14	1-1/4"-12	2-5/32"	1-19/32"	1-1/8"	1-1/2"	1-3/8"	7/8"
16	1-1/2"-12	2-5/16"	1-21/32"	1-7/32"	1-3/4"	1-5/8"	1"
20	1-3/4"-12	2-9/16"	1-25/32"	1-7/16"	2"	2"	1-1/4"
24	2"-12	2-11/16"	1-25/32"	1-5/8"	2-1/4"	2-1/4"	1-1/2"
32	2-5/8"-12	3-3/32"	1-15/16"	2-1/16"	3"	2-7/8"	2"

SAE Straight Thread "O"-Ring Type End

	•		
Size	T Thread	"A"	"H" Hex
2	5/16"-24	19/64"	7/16"
4	7/16"-20	23/64"	9/16"
4 5	1/2"-20	23/64"	5/8"
6	9/16"-18	25/64"	11/16"
8	3/4"-16	7/16"	7/8"
10	7/8"-14	1/2"	1"
12	1-1/16"-12	19/32"	1-1/4"
14	1-3/16"-12	19/32"	1-3/8"
16	1-5/16"-12	19/32"	1-1/2"
20	1-5/8"-12	19/32"	1-7/8"
20 24	1-7/8"-12	19/32"	2-1/8"
32	2-1/2"-12	19/32"	2-7/8"

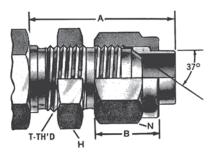




Available Fitting Ends-Types (SPECIFICATIONS & IDENTIFICATION)

JIC 37° Flare Male Bulkhead End

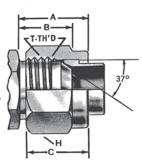
Has same uses as JIC 37° Flare male except has provisions for passing through a Bulkhead and is held in ulkhead with a Lock Nut (3/8" Maximum Bulkhead Thickness).



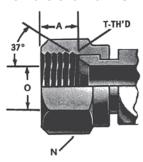
JIC 37° Flare Male End

May be used with F-3205 Tube Nut, F-3165 Tube Sleeve, F-2205 Tube Nut, F-2205S Tube Nut or F2205C Cap.

May also be joined directly to the Female JIC 37° Swivel Fitting as an adapter.



Female JIC • 37° Swivel End

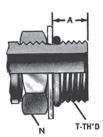


SAE Adjustable Straight Thread "O"-Ring Type End

(Elbows & Tees)

For same use as SAE Straight Thread "O"-Ring Type, but provides for 360° positioning for Tees and Elbows with Lock Nut.

May also be used with AND 100050 Port



JIC 37° • Flare Male Bulkhead End

Size	Thread	"A" Str. Fttg.	"B"	"H" Hex	"N" Hex
4	7/16"-20	1-5/8"	5/8"	11/16"	9/16"
5	1/2"-20	1-5/8"	11/16"	3/4"	5/8"
6	9/16"-18	1-23/32"	23/32"	13/16"	11/16"
8	3/4"-16	2"	27/32"	1"	7/8"
10	7/8"-14	2-1/4"	31/32"	1-1/8"	1"
12	1-1/16"-12	2-3/8"	1-1/32"	1-3/8"	1-1/4"
14	1-3/16"-12	2-1/2"	1-3/32"	1-1/2"	1-3/8"
16	1-5/16"-12	2-9/16"	1-1/8"	1-5/8"	1-1/2"
20	1-5/8"-12	2-11/16"	1-7/32"	1-7/8"	2"
24	1-7/8"-12	2-15/16"	1-13/32"	2-1/8"	2-1/4"
32	2-1/2"-12	3-1/4"	1-3/4"	2-3/4"	2-7/8"

JIC 37° • Flare Male End

Size	Thread	"A"	"B"	"C"	"H" Hex
2	5/16"-24	3/4"	7/16"	17/32"	3/8"
3	3/8"-24	25/32"	15/32"	19/32"	7/16"
4	7/16"-20	15/16"	9/16"	5/8"	9/16"
5	1/2"-20	31/32"	9/16"	11/16"	5/8"
6	9/16"-18	1-1/32"	9/16"	23/32"	11/16"
8	3/4"-16	1-3/16"	21/32"	27/32"	7/8"
10	7/8"-14	1-13/32"	3/4"	31/32"	1"
12	1-1/16"-12	1-15/32"	7/8"	1-1/32"	1-1/4"
14	1-3/16"-12	1-5/8"	29/32"	1-3/32"	1-3/8"
16	1-5/16"-12	1-11/16"	29/32"	1-1/8"	1-1/2"
20	1-5/8"-12	1-13/16"	31/32"	1-7/32"	2"
24	1-7/8"-12	2-3/16"	1-3/32"	1-13/32"	2-1/4"
32	2-1/2"-12	2-15/32"	1-3/4"	1-11/32"	2-7/8"

Female JIC 37° Swivel End

4 7/16"-20 11/32" 9/16" 11/64" 5 1/2"-20 3/8" 5/8" 15/64" 6 9/16"-18 3/8" 11/16" 19/64" 8 3/4"-16 27/64" 7/8" 25/64" 10 7/8"-14 1/2" 1" 31/64" 12 1-1/16"-12 9/16" 1-1/4" 39/64"
6 9/16"-18 3/8" 11/16" 19/64" 8 3/4"-16 27/64" 7/8" 25/64" 10 7/8"-14 1/2" 1" 31/64"
8 3/4"-16 27/64" 7/8" 25/64" 10 7/8"-14 1/2" 1" 31/64"
10 7/8"-14 1/2" 1" 31/64"
12 1 1/16" 12 0/16" 1 1/4" 30/64"
12 1-1/10-12 9/10 1-1/4 59/04
14 1-3/16"-12 37/64" 1-3/8" 23/32"
16 1-5/16"-12 19/32" 1-1/2" 27/32"
20 1-5/8"-12 5/8" 2" 1-5/64"
24 1-7/8"-12 47/64" 2-1/4" 1-5/16"
32 2-1/2"-12 15/16" 2-7/8" 1-25/32"

SAE Adjustable Straight Thread "O"-Ring Type End

Size	Thread	"A"	"N" Hex
2	5/16"-24	19/64"	7/16"
4	7/16"-20	23/64"	9/16"
5	1/2"-20	23/64"	5/8"
6	9/16"-18	23/64"	11/16"
8	3/4"-16	7/16"	7/8"
10	7/8"-14	1/2"	1"
12	1-1/16"-12	19/32"	1-1/4"
14	1-3/16"-12	19/32"	1-3/8"
16	1-5/16"-12	19/32"	1-1/2"
20	1-5/8"-12	19/32"	1-7/8"
24	1-7/8"-12	19/32"	2-1/8"
32	2-1/2"-12	19/32"	2-3/4"

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TERMS AND CONDITIONS OF THE SALES ORDER FOR SVI INTERNATIONAL, INC.

- 1. <u>GENERAL</u>. The terms and conditions of sales order outlined herein shall apply to the sale by SVI_INTERNATIONAL, INC. (hereinafter referred to as "Company") of the items described on the facing page (hereinafter referred to as "Merchandise") to Purchaser.
- 2. <u>DELIVERY</u>. Delivery shall be deemed to be complete when the Merchandise has been shipped F.O.B. Company's plants in DeKalb, Illinois, Montclair, California; and Hanover, Maryland ("Company's plants"). Shipments are subject to delays from causes or contingencies beyond the reasonable control of the Company. When otherwise not specified, shipments will be made in standard containers via carrier which, in the judgment of the Company, will result in the most practical method. Title and right of possession will pass to the Purchaser upon receipt by the carrier at the shipping point. If a customer of the Company should specify a specific carrier's method of shipment (i.e. UPS Next Day Air) and that carrier does not perform to the customer's expectations, freight credit to a customer's account will not be issued unless the Company can first obtain a credit.
- 3. <u>RISK OF LOSS</u>. Identification of the Merchandise under Uniform Commercial Code (hereinafter referred to as "UCC") Section 2-501 shall take place at the moment of shipment F.O.B. Company's plants. Risk of loss shall pass to the Purchaser when the Merchandise is shipped from the Company's plants.
- 4. <u>TITLE</u>. Title to the merchandise shall transfer to the Purchaser when the Merchandise is shipped from the Company's plants.
- 5. WARRANTIES. The Company guarantees its products to be free from defects in workmanship and raw materials for a period of one year from date of purchase. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL WARRANTIES EXPRESS OR IMPLIED. COMPANY DOES NOT WARRANT THE MERCHANDISE IS MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. Company's liability for breach of the terms of this Agreement, including any warranty, is limited to either refund of the invoice price of the Merchandise or at Company's option, replacement of the Merchandise free of charge, including transportation charges but not including the cost of labor. Purchaser has not relied on any statement or upon the conduct of Company with respect to the prospective use of the merchandise. Company shall not be liable for and Purchaser waives any and all claims for any loss or damage, directly or indirectly, arising from the use of the Merchandise and for punitive, incidental or consequential damages, including, but not limited to, damages to property, for loss of use, loss of time, loss of profit or loss of income. The Company does not authorize the sale of our products under any other warranty, expressed or implied. Please note: Electrical components and cylinder or shaft seals are not covered under warranty.
- **SETOFF.** All claims for money due or to become due from the Company shall be subject to deduction by the Company for any setoff or counterclaim arising out of this or any other claims of the Company or its affiliated companies, whether such setoff or counterclaim arose before or after any assignment by Purchaser.
- 7. INDEMNIFICATION. Purchaser agrees to indemnify the Company and hold it harmless from and against all claims, liability, loss, damage or expense, including reasonable counsel fees, arising from or by reason of any modifications or alterations made by Purchaser. If a customer of the Company modifies or alters any part, in any manner whatsoever, or uses any part in departure from recommended performance specifications, said customer agrees to indemnify and hold the Company harmless from and against all liability and expenses based on damage to property or injury to or death of any person arising out of or attributable to such modified or altered part. Further, the Company will not accept any such modified or altered part for credit to a customer's account.
- **8.** FREIGHT POLICY. Freight charges are prepaid and added to invoice or collect FOB shipping point. Note: All customers are responsible for all carrier shipping costs, fees, surcharges, etc. including order refusal and return fees.
- 9. RETURN POLICY. To return a part for credit or inspection, Purchaser must first contact our Main Office in Illinois, to obtain a Return Merchandise Form. Once Purchaser has obtained this form, the parts can be returned freight prepaid only. The Return form must be included with the shipment. Parts returned to the Company without the approved form will be returned freight collect to the shipper or refused. Returns must be initiated within 30 days of the invoice date. The Return Forms are valid for 30 days, from the date of issue. All Returns are subject to restocking charges. Return parts brought into our remote warehouses, will not be accepted by our personnel, without a Return Merchandise Form from the Main Office. Parts which have been used in any way or manner, including any installation or incorporation into a lift, hoist, or other equipment, shall NOT be eligible for return whether or not a Return form has been assigned. Please note: Electrical parts or components are not returnable for credit. This includes all switches, pushbuttons, relays, electric motors, capacitors, fuses, solenoids, power units with wiring issues or any other electrical items. Custom, built to order, special order, and non-stocked genuine parts are non-returnable.
- 10. <u>RESTOCK CHARGE</u>. Returns are subject to a restocking charge. Refusals are subject to the same restocking charge plus the cost of outbound and return freight charges and/or fees incurred by the Company due to shipment refusal.
- 11. PRICES AND PAYMENTS. All prices are subject to change without notice. All prices are F.O.B. shipping point. The Company standard terms are net 30 days, C.O.D. company check, C.O.D. cash, VISA, MasterCard, Discover or American Express. However, if in the judgment of the Company, the financial condition of the Purchaser at any time does not justify shipment according to standard terms of payment, the Company may require full or partial payment in advance.
- 12. INTERPRETATION. This sales order is intended by the parties as a complete and exclusive statement of the terms of their agreement. It supersedes all prior agreements, written or oral. No course of prior dealings between the parties and no usage of the trade shall be relevant to supplement or explain any terms used in this sales order. Acceptance or acquiescence in a course of performance rendered under this purchase order shall not be relevant to determine the meaning of this sales order even though the accepting or acquiescing party has knowledge of the nature of the performance and opportunity for objection. Whenever a term defined by the UCC is used in this sales order the definition contained in the UCC shall control.
- 13. MODIFICATION. This sales order can be modified or rescinded only by a writing signed by both parties.
- **14.** <u>WAIVER</u>. No claim or right arising out of a breach of this sales order can be discharged in whole or in part by a waiver or renunciation of the claim or right unless such waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.
- 15. <u>ASSIGNMENT</u>. No right or interest in this sales order shall be assigned by either party without the written consent of the other and no delegation of any obligation owed, or of the performance of any obligation by either the Company or Purchaser shall be made without the written consent of the other party. Any attempted assignment or delegation not made in conformity with this paragraph shall be wholly void and totally ineffective for all purposes.
- 16. TIME TO PERFORM AND BRING ACTION. Time is of the essence of this sales order. Any action for breach of this sales order shall be commenced within two (2) years after the cause of action has accrued. Any party who loses any litigation shall reimburse the other party for costs including reasonable attorney's fees. The exclusive jurisdiction for any legal action shall be the Circuit Court of DeKalb County, Illinois.
- 17. APPLICABLE LAW. This sales order shall be governed by the UCC of Illinois as effective and in force on the date of this sales order.

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