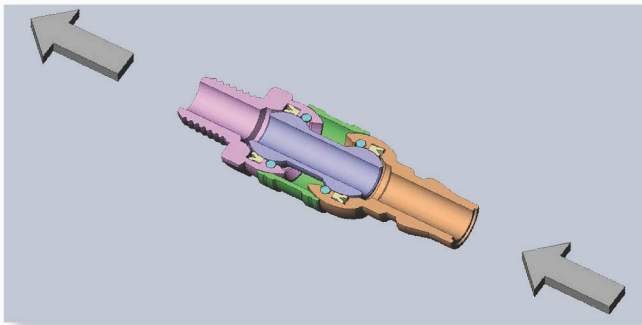


Free Angle Series Fitting

Free Motion Series

PAT. U.S.A. Canada, EU and China



This unique fitting design was developed primarily for air tools in assembly line applications.

Operators of these tools run an increased risk of cumulative trauma disorders (CTD's) due to repetitive motion, vibration and pressure from the weight of the tool and supply hose.

- 360 deg. circular rotation and 45 deg. angled rotation.
- Helps alleviate carpal tunnel syndrome and back stress resulting in fewer lost-time injuries.
- Lightweight, streamlined design protects against finished surface mutilation.
- Two rotation points prevent kinking of the supply line.
- Nickel-plated steel construction for long service life.
- Steel dust cover protects rotating joint.
- Thread sealant is supplied on all male fittings.

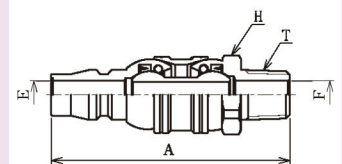
Body Material	Steel / Aluminum
Max. Pressure	1.5 MPa / 1.0 MPa
Burst Pressure	2.0 MPa / 1.5 MPa
Sealing material	NBR
Temperature range in use	-20℃ ~ +60℃

Free Angle Plug type



Male Thread Plug

Model	Thread	A	ζ E	ζ F	H	Weight(g)
FP-2M	R1/4	63	7.5	7.5	19	59
FP-3M	R3/8	64	7.5	8	19	63



Female Thread Plug

Model	Thread	A	ζ E	H	Weight(g)
FP-2F	Rc1/4	64	7.5	19	71
FP-2FF	G1/4	64	7.5	19	65
FP-3F	Rc3/8	64	7.5	21	72

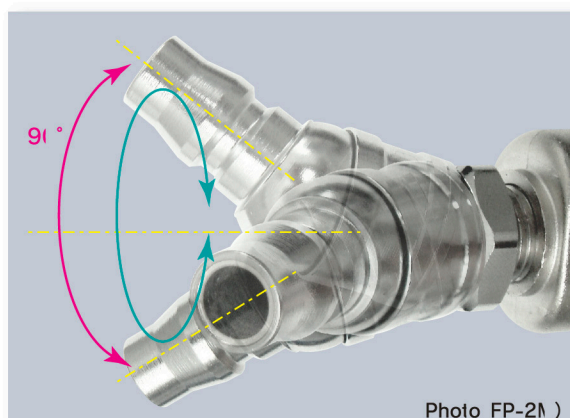
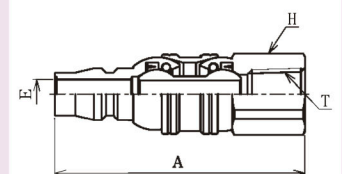
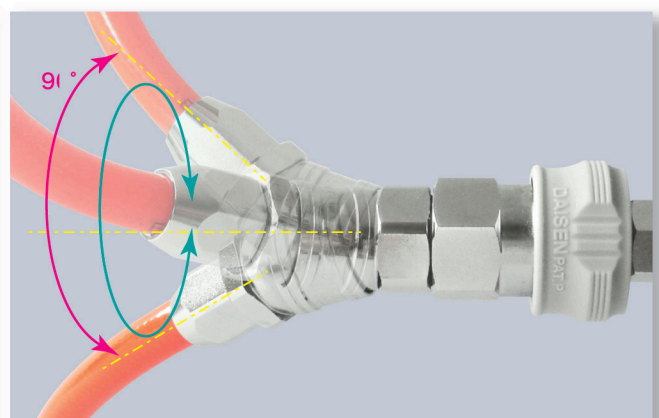
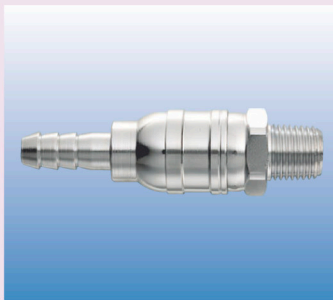


Photo FP-2M)

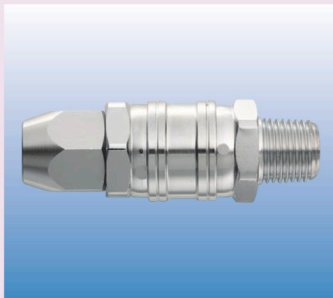
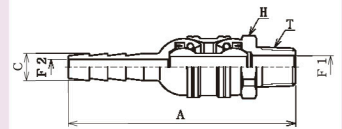


Free Angle Fitting



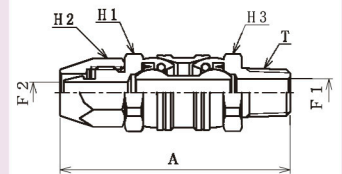
Barb + Male Thread Connection

Model	Thread	A	ϕ C	ϕ F1	ϕ F2	H	Hose	Weight(g)
FJ-2M2H	R1/4	70	9	7.5	5	19	1/4	61
FJ-3M3H	R3/8	75	13	8	7.5	19	3/8	69



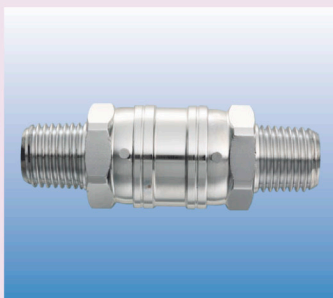
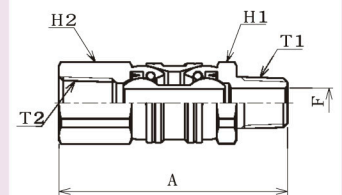
Nut + Male Thread Connection

Model	Thread	A	ϕ F	ϕ F2	H1	H2	T3	Hose	Weight(g)
FJ65-2M	R1/4	62	7.5	5.7	19	16	19	6.5×10.0	73
FJ80-3M	R3/8	66	8	6.5	19	19	19	8.0×12.0	92



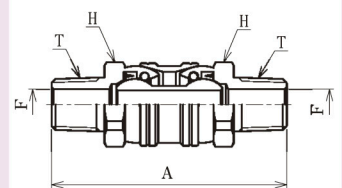
Male thread + Female Thread

Model	Thread(T1)	Thread(T2)	A	ϕ F	T1	T2	Weight(g)
FJ-2M2F	R1/4	Rc1/4	58	7.5	19	16	74
FJ-3M3F	R3/8	Rc3/8	59	8	19	19	79

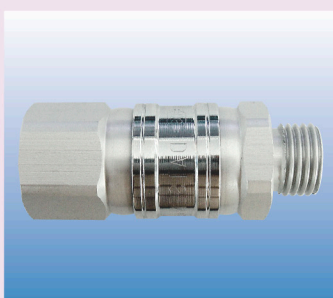


Male Thread + Male thread

Model	Thread	A	ϕ F	H	Weight(g)
FJ-2M2M	R1/4	58	7.5	19	63
FJ-3M3M	R3/8	60	8	19	71

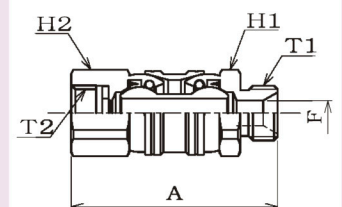


Free Angle Aluminum Fitting



Male Thread + Female Thread (Aluminum Body)

Model	Thread(T1)	Thread(T2)	A	ϕ F	T1	T2	Weight(g)
FJA-G2M2F	G1/4 (M)	G1/4 (F)	50	6	19	19	35



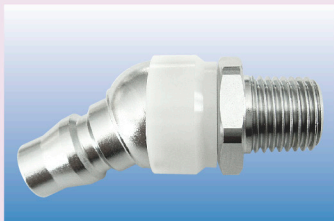
Free Plug

Free Plug

The Free Plug is cost effective type of Free Angle Series. This fitting design was also developed primarily for air tools in assembly line applications. Operators of these tools run an increased risk of cumulative trauma disorders (CTD's) due to repetitive motion, vibration and pressure from the weight of the tool and supply hose.

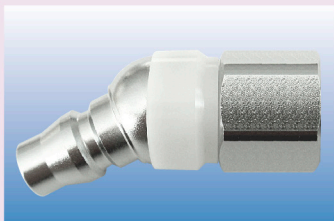
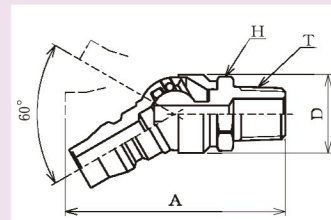
Body Material	Steel
Max. Pressure	1.5 MPa
Burst Pressure	2.0 MPa
Sealing material	NBR
Temperature range in use	-20℃ ~ +80℃

For General Air tools (6mm I.D. shaft)



Male Thread Free Plug

Model	Thread	A	D	H	Weight(g)
FP6-2M(30)	R1/4	54	19.5	19	50
FP6-3M(30)	R3/8	55	19.5	19	56



Female Thread Free Plug

Model	Thread	A	D	H	Weight(g)
FP6-2F	Rc1/4	54	19.5	19	53
FP6-2FF	G1/4	48	19.5	19	48

