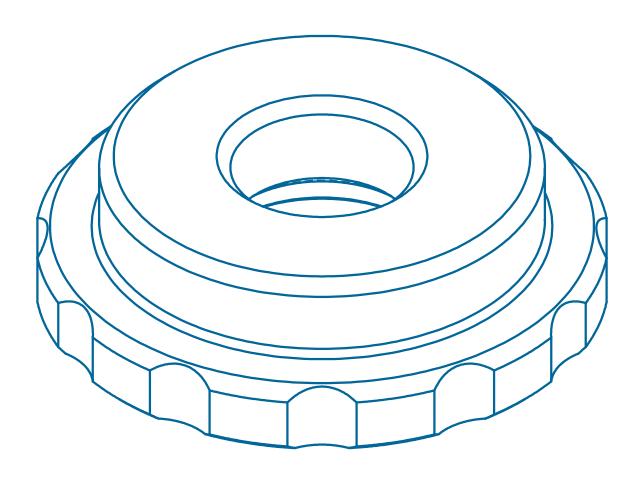
VACUUM CUP FITTINGS

SECTION 3









Ø 10-15 mm Cups



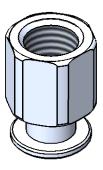
Ø 20-35 mm Cups



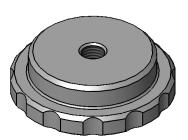
Ø 40 mm Cups



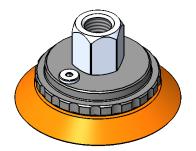
Ø 50 mm Cups



Ø 65 mm Cups



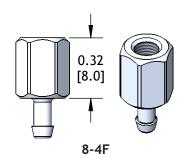
Ø 75 - 150 mm Cups



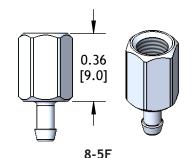
Accessories

Ø 4-8 mm Cups	3
Ø 10-15 mm Cups	4
Ø 20-35 mm Cups	5
Ø 40 mm Cups	8
Ø 50 mm Cups	11
Ø 65 mm Cups	14
Ø 75-150 mm Cups	15
Fitting Accessories	15

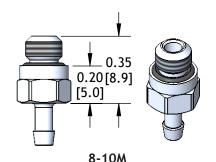
Ø 4-8 MM CUPS - STANDARD



Assembly Suffix:	-4F
Threads:	M4X0.7 Female
Thread Depth: in [mm]	0.23 [5.8]
Weight: oz [g]	0.04 [1.1]
Thru Hole: in [mm]	0.05 [1.3]
Hex Size: in [mm]	0.25 [6.4]



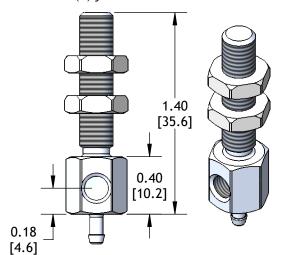
0 31		
Assembly Suffix:	-5F	
Threads:	M5X0.8 Female	
Thread Depth: in [mm]	0.25 [6.4]	
Weight: oz [g]	0.04 [1.1]	
Thru Hole: in [mm]	0.06 [1.5]	
Hex Size: in [mm]	0.31 [8.0]	



0 10/11		
Assembly Suffix:	-10M	
Threads:	10-32 Male	
Weight: oz [g]	0.08 [2.3]	
Thru Hole: in [mm]	0.06 [1.4]	
Hex Size: in [mm]	0.25 [6.4]	

Ø 4-8 MM CUPS - SIDE VACUUM PORT W/ MALE POST

JN-M6X1.0 (2) jam nuts included.

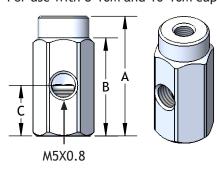


8-S5F-6M		
Assembly Suffix:	-S5F-6M	
Port Threads:	M5X0.8	
Post Threads:	M6X1.0	
Weight: oz [g]	0.22 [6.1]	
Thru Hole: in [mm]	0.04 [1.0]	
Hex Size: in [mm]	0.38 [9.5]	

Ø 4-8 MM CUPS - SIDE VACUUM PORT W/ FEMALE PORT

For use with 8-10M and 10-10M cup fittings

M5X0.8

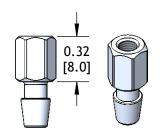




Fitting	Assembly Suffix	Weight oz [g]	Hex Size in [mm]
5F-S5F-5F	-S5F-5F	0.13 [3.7]	0.38 [9.5]
5F-S5F-6F	-S5F-8F	0.18 [5.0]	0.44 [11.1]

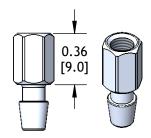
Fitting	A in [mm]	B in [mm]	C in [mm]	Thread	Thread Depth in [mm]
5F-S5F-5F	0.83 [21.0]	0.68 [17.3]	0.35 [8.9]	M5X0.8	0.22 [5.6]
5F-S5F-6F	0.86 [22.0]	0.63 [16.0]	0.33 [8.4]	M6X1.0	0.33 [8.4]

Ø 10-15 MM CUPS - STANDARD



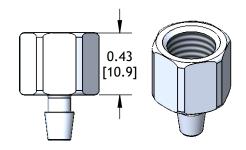
10-4F

Assembly Suffix:	-4F
Threads:	M4X0.7 Female
Thread Depth: in [mm]	0.23 [5.8]
Weight: oz [g]	0.05 [1.4]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.25 [6.4]



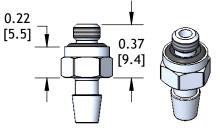
10-5F

Assembly Suffix:	-5F
Threads:	M5X0.8 Female
Thread Depth: in [mm]	0.20 [5.1]
Weight: oz [g]	0.05 [1.4]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.25 [6.4]



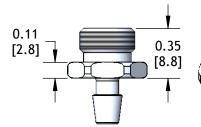
10-18F

Assembly Suffix:	-10M
Threads:	G 1/8-27 NPSF
Thread Depth: in [mm]	0.28 [7.1]
Weight: oz [g]	0.10 [2.8]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.5 [13.0]





Assembly Suffix:	-10M
Threads:	10-32 Male
Weight: oz [g]	0.10 [2.8]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.31 [8.0]

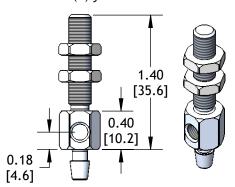


10-18M

Assembly Suffix:	-18M
Male Threads:	G 1/8-28 Male
Female Threads:	M5X0.8 Female
Thread Depth: in [mm]	0.21 [5.3]
Weight: oz [g]	0.08 [2.3]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.50 [13.0]

Ø 10-15 MM CUPS - SIDE VACUUM PORT W/ MALE POST

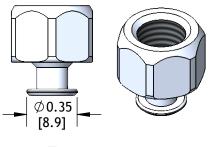
JN-M6X1.0 (2) jam nuts included.



10-S5F-6M

Assembly Suffix:	-S5F-6M
Port Threads:	M5X0.8
Post Threads:	M6X1.0
Weight: oz [g]	0.24 [6.8]
Thru Hole: in [mm]	0.10 [2.5]
Hex Size: in [mm]	0.38 [9.5]

Ø 20-35 MM CUPS - FEMALE





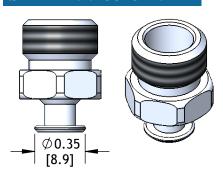
Technical Data

Fitting	Assembly Suffix	Weight oz [g]
32-5F	-5F	0.09 [2.6]
32-6F	-6F	0.23 [6.5]
32-8F	-8F	0.20 [5.7]
32-18F	-18F	0.12 [3.4]
32-G14F	-G14F	0.26 [7.3]

Dimensions

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Depth in [mm]
32-5F	0.25 [6.4]	0.50 [12.7]	0.17 [4.2]	M5X0.8	0.20 [5.1]
32-6F	0.55 [14.0]	0.56 [14.5]	0.14 [3.6]	M6X1.0	0.25 [6.4]
32-8F	0.55 [14.0]	0.56 [14.5]	0.14 [3.6]	M8X1.25	0.32 [8.1]
32-18F	0.40 [10.0]	0.56 [14.5]	0.17 [4.2]	G 1/8 NPSF	0.25 [8.4]
32-G14F	0.65 [16.4]	0.69 [17.5]	0.17 [4.2]	G 1/4	0.45 [11.4]

Ø 20-35 MM CUPS - MALE





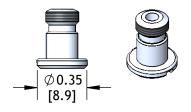
Technical Data

Fitting	Assembly Suffix	Weight oz [g]
32-5M	-5M	0.09 [2.6]
32-6M	-6M	0.11 [3.2]
32-8M	-8M	0.12 [3.4]
32-18M¹	-18M	0.08 [2.3]
32-14M	-14M	0.18 [5.1]
32-G14M	-G14M	0.16 [4.5]

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Length in [mm]
32-5M	0.20 [5.1]	0.50 [12.7]	0.08 [2.0]	M5X0.8	0.19 [4.8]
32-6M	0.20 [5.1]	0.56 [14.2]	0.10 [2.5]	M6X1.0	0.23 [5.9]
32-8M	0.20 [5.1]	0.56 [14.2]	0.14 [3.6]	M8X1.25	0.32 [8.1]
32-18M¹	0.11 [2.8]	0.56 [14.2]	0.16 [4.1]	G 1/8 NPSF	0.24 [6.1]
32-14M	0.20 [5.1]	0.69 [17.5]	0.17 [4.2]	1/4 NPTF	0.35 [9.0]
32-G14M	0.20 [5.1]	0.69 [17.5]	0.17 [4.2]	G 1/4	0.35 [9.0]

¹32-18M also has M5X0.8 Female threads 0.22 [5.7] deep.

Ø 20-35 MM CUPS - MALE STUD



Technical Data

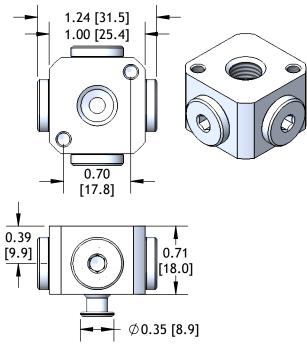
Fitting	Assembly Suffix	Weight oz [g]
32-6MS	-6MS	0.02 [0.7]
32-10MS	-10MS	0.02 [0.7]



Dimensions

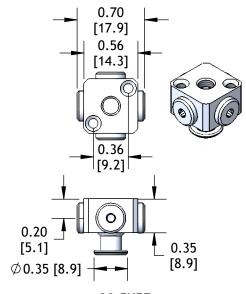
Fitting	Slot Width in [mm]	Thru Hole in [mm]	Thread	Thread Length in [mm]	Total Height in [mm]
32-6MS	0.06 [1.5]	0.09 [2.3]	M6X1.0	0.16 [4.1]	0.41 [10.4]
32-10MS	0.06 [1.5]	0.09 [2.3]	10-32	0.16 [4.1]	0.41 [10.4]

Ø 20-35 MM CUPS - CROSS FITTINGS



3	2-	5	X	1	8	F

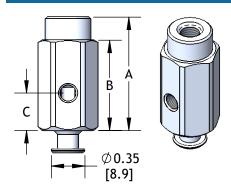
Assembly Suffix:	-5X18F
Threads:	G 1/8 NPSF (5)
Mount Threads:	M4X0.7 (2)
Weight: oz [g]	1.00 [28.3]
Thru Hole: in [mm]	0.17 [4.2]



32-5X5F

Assembly Suffix:	-5X5F
Threads:	M5X0.8 (5)
Mount Threads:	M3X0.5 (2)
Weight: oz [g]	0.18 [5.0]
Thru Hole: in [mm]	0.17 [4.2]

Ø 20-35 MM CUPS - M5 FEMALE SIDE VACUUM PORT W/ FEMALE MOUNT



Technical Data

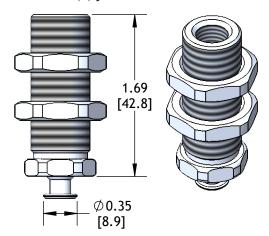
Fitting	Assembly Suffix	Weight oz [g]	Hex Size in [mm]
32-S5F-5F	-S5F-5F	0.34 [9.6]	0.56 [14.3]
32-S5F-6F	-S5F-6F	0.43 [12.8]	0.56 [14.3]
32-S5F-8F	-S5F-8F	0.41 [11.0]	0.56 [14.3]

Dimensions

Fitting	A in [mm]	B in [mm]	C in [mm]	Mount Thread	Thread Depth in [mm]
32-S5F-5F	0.89 [22.1]	0.69 [17.5]	0.35 [8.9]	M5X0.8	0.30 [7.6]
32-S5F-6F	1.18 [30.0]	0.94 [23.9]	0.39 [9.9]	M6X1.0	0.25 [6.3]
32-S5F-8F	1.18 [30.0]	0.87 [22.0]	0.39 [9.9]	M8X1.25	0.32 [8.1]

Ø 20-35 MM CUPS - TOOL MOUNT

JN-M16X1 (2) jam nuts included.

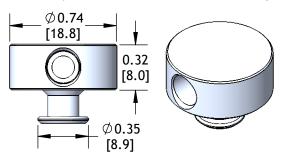


32-18FX40

Assembly Suffix:	-18FX40
Female Threads:	G 1/8 NPSF
Thread Depth: in [mm]	0.38 [9.7]
Post Threads:	M16X1.0
Hex Size: in [mm]	0.69 [17.5]
Hex Height: in [mm]	0.18 [4.6]
Weight: oz [g]	0.78 [22.1]
Thru Hole: in [mm]	0.16 [4.1]

Ø 20-35 MM CUPS - DIE CUTTING

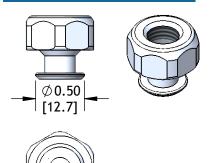
Contains push-in bore (2) for Ø 6 mm tubing.



32-DC75X31

Assembly Suffix:	-DC75X31
Weight: oz [g]	0.18 [5.2]
Thru Hole: in [mm]	0.16 [4.1]

Ø 40 MM CUPS - FEMALE



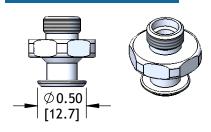
Technical Data

Fitting	Assembly Suffix	Weight oz [g]
40-6F	-6F	0.38 [10.8]
40-8F	-8F	0.34 [9.6]
40-18F	-18F	0.20 [5.7]
40-38F	-38F	0.46 [13.2]
40-G14F	-G14F	0.26 [7.3]

Dimensions

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Depth in [mm]
40-6F	0.55 [14.0]	0.69 [17.5]	0.14 [3.6]	M6X1.0	0.25 [6.4]
40-8F	0.55 [14.0]	0.69 [17.5]	0.14 [3.6]	M8X1.25	0.32 [8.1]
40-18F	0.35 [8.8]	0.69 [17.5]	0.22 [5.6]	G 1/8 NPSF	0.25 [6.4]
40-38F	0.70 [17.8]	0.88 [22.2]	0.22 [5.6]	3/8 NPTF	0.55 [14.0]
40-G14F	0.63 [15.9]	0.75 [19.0]	0.22 [5.6]	G 1/4	0.45 [11.4]

Ø 40 MM CUPS - MALE



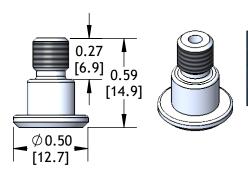


Technical Data

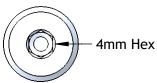
Fitting	Assembly Suffix	Weight oz [g]
40-6M	-6M	0.38 [10.8]
40-8M	-8M	0.19 [5.4]
40-18M	-18M	0.16 [4.5]
40-14M	-14M	0.19 [5.4]
40-38M	-38M	0.27 [7.7]
40-G14M	-G14M	0.21 [5.9]
40-G38M	-G38M	0.27 [7.7]

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Length in [mm]
40-6M	0.20 [5.1]	0.69 [17.5]	0.14 [3.6]	M6X1.0	0.32 [8.1]
40-8M	0.20 [5.1]	0.69 [17.5]	0.14 [3.6]	M8X1.25	0.32 [8.1]
40-18M	0.19 [4.9]	0.69 [17.5]	0.22 [5.6]	G 1/8 NPSF	0.23 [5.9]
40-14M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	1/4 NPT	0.36 [9.0]
40-38M	0.20 [5.1]	0.75 [19.0]	0.22 [5.6]	3/8 NPT	0.36 [9.0]
40-G14M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	G 1/4	0.36 [9.0]
40-G38M	0.20 [5.1]	0.75 [19.0]	0.22 [5.6]	G 3/8	0.36 [9.0]

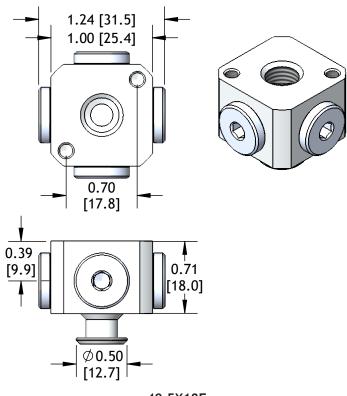
Ø 40 MM CUPS - MALE STUD



40-6MS				
Assembly Suffix:	-6MS			
Thread:	M6X1.0			
Weight: oz [g]	0.07 [1.9]			
Thru Hole: in [mm]	0.09 [2.4]			

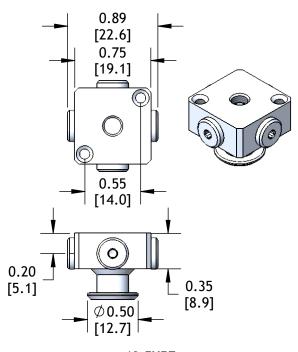


Ø 40 MM CUPS - CROSS FITTINGS



40)-5	v	1	Q	
40	,,	_		O	

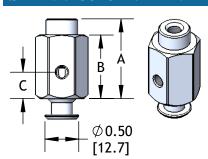
Assembly Suffix:	-5X18F
Threads:	G 1/8 NPSF (5)
Mount Threads:	M4X0.7 (2)
Weight: oz [g]	1.00 [28.3]
Thru Hole: in [mm]	0.22 [5.6]



40-5X5F

Assembly Suffix:	-5X5F
Threads:	M5X0.8 (5)
Mount Threads:	M3X0.5 (2)
Weight: oz [g]	0.32 [9.0]
Thru Hole: in [mm]	0.16 [4.1]

Ø 40 MM CUPS - M5 FEMALE SIDE VACUUM PORT W/ FEMALE MOUNT



Technical Data

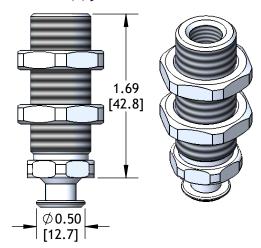
Fitting	Assembly Suffix	Weight oz [g]	Hex Size in [mm]	
40-S5F-6F	-S5F-6F	0.69 [19.6]	0.69 [17.5]	
40-S5F-8F	-S5F-8F	0.63 [17.9]	0.69 [17.5]	

Dimensions

Fitting	A in [mm]	B in [mm]	C in [mm]	Mount Thread	Thread Depth in [mm]
40-S5F-6F	1.18 [30.0]	0.94 [23.9]	0.39 [9.9]	M6X1.0	0.25 [6.3]
40-S5F-8F	1.18 [30.0]	0.87 [22.0]	0.39 [9.9]	M8X1.25	0.32 [8.1]

Ø 40 MM CUPS - TOOL MOUNT

JN-M16X1 (2) jam nuts included.

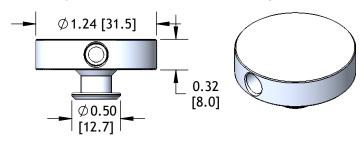


40-18FX40

Assembly Suffix:	-18FX40
Female Threads:	G 1/8 NPSF
Thread Depth: in [mm]	0.38 [9.7]
Post Threads:	M16X1.0
Hex Size: in [mm]	0.69 [17.5]
Hex Height: in [mm]	0.18 [4.6]
Weight: oz [g]	0.80 [22.7]
Thru Hole: in [mm]	0.22 [5.5]

Ø 40 MM CUPS - DIE CUTTING

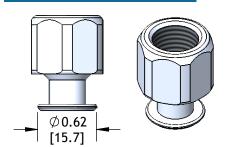
Contains push-in bore (2) for Ø 6 mm tubing.



40-DC125X31

Assembly Suffix:	-DC125X31
Weight: oz [g]	0.58 [16.3]
Thru Hole: in [mm]	0.16 [4.0]

Ø 50 MM CUPS - FEMALE



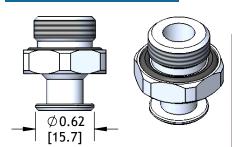
Technical Data

Fitting	Assembly Suffix	Weight oz [g]
50-6F	-6F	0.42 [11.9]
50-8F	-8F	0.38 [10.8]
50-18F	-18F	0.23 [6.5]
50-14F	-14F	0.36 [10.2]
50-38F	-38F	0.51 [14.5]
50-G14F	-G14F	0.37 [10.5]

Dimensions

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Depth in [mm]
50-6F	0.55 [14.0]	0.69 [17.5]	0.14 [3.6]	M6X1.0	0.25 [6.4]
50-8F	0.55 [14.0]	0.69 [17.5]	0.14 [3.6]	M8X1.25	0.32 [8.1]
50-18F	0.35 [8.8]	0.69 [17.5]	0.22 [5.6]	G 1/8 NPSF	0.25 [6.4]
50-14F	0.62 [15.6]	0.75 [19.0]	0.22 [5.6]	1/4 NPTF	0.40 [10.0]
50-38F	0.70 [17.8]	0.88 [22.2]	0.22 [5.6]	3/8 NPSF	0.45 [11.4]
50-G14F	0.63 [15.9]	0.75 [19.0]	0.22 [5.6]	G 1/4	0.45 [11.4]

Ø 50 MM CUPS - MALE

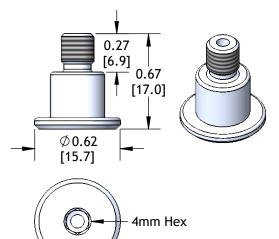


Technical Data

Fitting	Assembly Suffix	Weight oz [g]
50-6M	-6M	0.23 [6.5]
50-8M	-8M	0.23 [6.5]
50-18M	-18M	0.20 [5.7]
50-14M	-14M	0.23 [6.5]
50-38M	-38M	0.31 [8.8]
50-G14M	-G14M	0.25 [7.1]
50-G38M	-G38M	0.31 [8.8]
50-N18M	-N18M	0.20 [5.7]

Fitting	Hex Height in [mm]	Hex Size in [mm]	Thru Hole in [mm]	Thread	Thread Length in [mm]
50-6M	0.20 [5.1]	0.69 [17.5]	0.14 [3.6]	M6X1.0	0.32 [8.1]
50-8M	0.20 [5.1]	0.69 [17.5]	0.14 [3.6]	M8X1.25	0.32 [8.1]
50-18M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	G 1/8 NPSF	0.23 [5.9]
50-14M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	1/4 NPT	0.35 [9.0]
50-38M	0.20 [5.1]	0.75 [19.0]	0.22 [5.6]	3/8 NPSF	0.35 [9.0]
50-G14M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	G 1/4	0.35 [9.0]
50-G38M	0.20 [5.1]	0.75 [19.0]	0.22 [5.6]	G 3/8	0.35 [9.0]
50-N18M	0.20 [5.1]	0.69 [17.5]	0.22 [5.6]	1/8 NPT	0.39 [9.9]

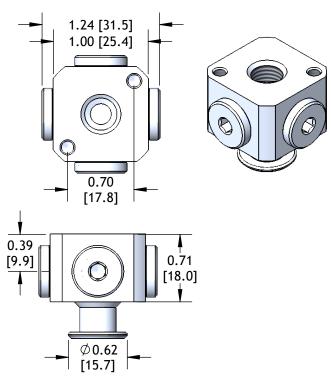
Ø 50 MM CUPS - MALE STUD



50-6MS

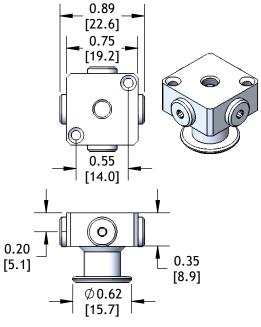
Assembly Suffix:	-6MS
Thread:	M6X1.0
Weight: oz [g]	0.12 [3.4]
Thru Hole: in [mm]	0.02 [2.5]

Ø 50 MM CUPS - CROSS FITTINGS



50-5X18F

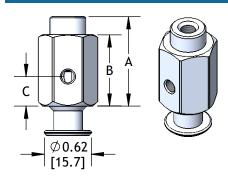
Assembly Suffix:	-5X18F
Threads:	G 1/8 NPSF (5)
Mount Threads:	M4X0.7 (2)
Weight: oz [g]	1.00 [29.7]
Thru Hole: in [mm]	0.22 [5.6]



50-5X5F

-5X5F
M5X0.8 (5)
M3X0.5 (2)
0.36 [10.1]
0.16 [4.1]

Ø 50 MM CUPS - M5 FEMALE SIDE VACUUM W/ FEMALE PORT



Technical Data

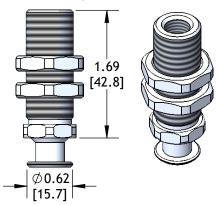
Fitting	Assembly Suffix	Weight oz [g]	Hex Size in [mm]
50-S5F-6F	-S5F-6F	0.74 [21.0]	0.69 [17.5]
50-S5F-8F	-S5F-8F	0.68 [19.3]	0.69 [17.5]

Dimensions

Fitting	A in [mm]	B in [mm]	C in [mm]	Mount Thread	Thread Depth in [mm]
50-S5F-6F	1.18 [30.0]	0.94 [23.9]	0.39 [9.9]	M6X1.0	0.25 [6.3]
50-S5F-8F	1.18 [30.0]	0.87 [22.0]	0.39 [9.9]	M8X1.25	0.32 [8.1]

Ø 50 MM CUPS - TOOL MOUNT

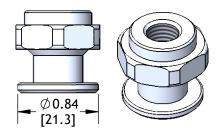
JN-M16X1 (2) jam nuts included.



50-18FX40

Assembly Suffix:	-18FX40
Female Threads:	G 1/8 NPSF
Thread Depth: in [mm]	0.38 [9.7]
Post Threads:	M16X1.0
Hex Size: in [mm]	0.69 [17.5]
Hex Height: in [mm]	0.18 [4.6]
Weight: oz [g]	0.83 [23.5]
Thru Hole: in [mm]	0.21 [5.3]

Ø 65 MM CUPS - FEMALE



Technical Data

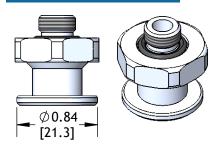
Fitting	Assembly Suffix	Weight oz [g]
65-18F	-18F	0.43 [12.2]
65-38F	-38F	0.66 [18.6]
65-G14F	-G14F	0.45 [12.7]

Dimensions

Fitting	Hex Height in [mm]	Offset Height in [mm]	Thru Hole in [mm]	Thread	Thread Depth in [mm]
65-18F	0.25 [6.4]	0.15 [3.8]	0.34 [8.6]	G 1/8 NPSF	0.38 [7.1]
65-38F	0.82 [20.8]	N/A	0.34 [8.6]	3/8 NPSF	0.55 [14.0]
65-G14F	0.25 [6.4]	0.34 [8.5]	0.34 [8.6]	G 1/4	0.45 [11.4]

Hex Size = 0.88 [22.4] for all 65 mm Cup Fittings

Ø 65 MM CUPS - MALE



Technical Data

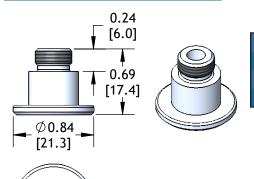
Fitting	Assembly Suffix	Weight oz [g]
65-18M	-18M	0.43 [12.3]
65-14M	-14M	0.45 [12.7]
65-38M	-38M	0.45 [12.7]
65-G14M	-G14M	0.45 [12.7]
65-G38M	-G38M	0.45 [12.7]

Dimensions

Fitting	Hex Height in [mm]	Thru Hole in [mm]	Thread	Thread Length in [mm]
65-18M	0.25 [6.4]	0.22 [5.6]	G 1/8 NPSF	0.24 [6.1]
65-14M	0.29 [7.4]	0.28 [7.1]	1/4 NPT	0.27 [6.9]
65-38M	0.25 [6.4]	0.34 [8.6]	3/8 NPSF	0.35 [8.9]
65-G14M	0.29 [7.4]	0.28 [7.1]	G 1/4	0.27 [6.9]
65-G38M	0.25 [6.4]	0.34 [8.6]	G 3/8	0.35 [8.9]

65-38M and 65-G38M also have G 1/8 NPSF Female Threads Hex Size = 0.88 [22.4] on all 65 mm Cup Fittings

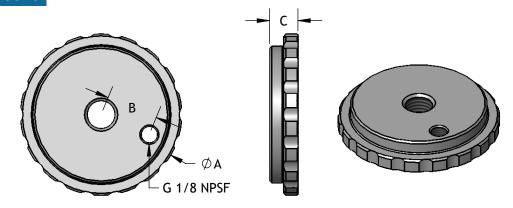
Ø 65 MM CUPS - MALE STUD



65-18MS

Assembly Suffix:	-18MS
Thread:	G 1/8 NPT
Weight: oz [g]	0.21 [5.9]
Thru Hole: in [mm]	0.20 [5.0]

Ø 75-150 MM CUPS



Fitting	Assembly Suffix	Weight oz [g]	A in [mm]	B in [mm]	C in [mm]	Thread
75-18F	-18F	2.80 [79.4]	2.36 [60.0]	N/A	0.68 [17.3]	G 1/8 NPSF
75-14F	-14F	2.70 [76.5]	2.36 [60.0]	N/A	0.68 [17.3]	1/4 NPSF
75-G14F	-G14F	2.70 [76.5]	2.36 [60.0]	N/A	0.68 [17.3]	G 1/4
75-38F	-38F	2.70 [76.5]	2.36 [60.0]	N/A	0.68 [17.3]	3/8 NPSF
75-G38F	-G38F	2.70 [76.5]	2.36 [60.0]	N/A	0.68 [17.3]	G 3/8
75-12F	-12F	2.60 [73.7]	2.36 [60.0]	N/A	0.68 [17.3]	G 1/2 NPSF
110-38F	-38F	5.10 [145.0]	3.35 [85.1]	1.10 [27.9]	0.59 [15.0]	3/8 NPSF
110-12F	-12F	5.10 [145.0]	3.35 [85.1]	1.10 [27.9]	0.59 [15.0]	G 1/2 NPSF
150-38F	-38F	8.50 [241.0]	4.72 [120.0]	1.38 [25.0]	0.56 [14.2]	3/8 NPSF
150-12F	-12F	8.50 [241.0]	4.72 [120.0]	1.38 [25.0]	0.56 [14.2]	G 1/2 NPSF

All 75 - 150 fittings include M4X10-965A Stainless Steel Screws and SS Filter Screen. Sizes 110 and 150 fittings also include an FS21 Filter Screen and P18 Plug for Auxiliary Port.

METRIC BUSHINGS

For use with 75-12F, 110-12F, and 150-12F fittings.

Bushing	Female Thread	Weight oz [g]
G12M-M8X1.25F	M8X1.25	0.49 [13.8]
G12M-M10X1.25F	M10X1.25	0.45 [12.7]
G12M-M10X1.5F	M10X1.5	0.45 [12.7]
G12M-M12X1.75F	M12X1.75	0.40 [11.3]
G12M-M16X1.5F	M16X1.5	0.24 [6.8]



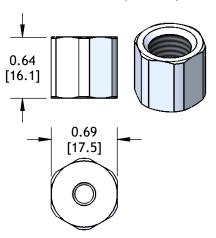
CUP FITTING ADAPTERS

Adapter	Thread 1	Thread 2	Weight oz [g]
38MX18M	G 3/8 NPT	G 1/8 NPT	0.26 [7.3]
38MX38M	G 3/8 NPT	G 3/8 NPT	0.31 [8.9]
38MX12M	G 3/8 NPT	G 1/2 NPT	0.59 [16.8]
12MX12M	G 1/2 NPT	G 1/2 NPT	0.77 [21.7]



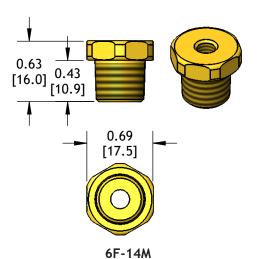
MALE STUD ADAPTERS

For use with 32-6MS, 40-6MS, and 50-6MS fittings.



6F-G14F

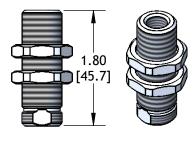
Thread 1:	G 1/4
Thread 2:	M6X1.0
Weight: oz [g]	0.28 [7.9]



Thread 1:	1/4 NPTF
Thread 2:	M6X1.0
Weight: oz [g]	0.68 [19.3]

TOOL MOUNT ADAPTERS

For use with -18M fittings. JN-M16X1 (2) jam nuts included.

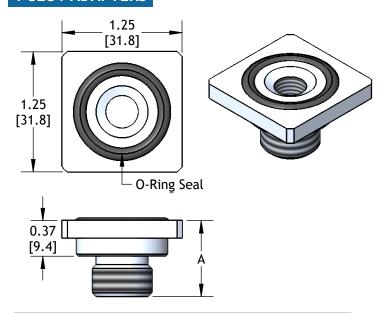




18F-16X40

Port Threads:	G 1/8 NPSF
Post Threads:	M16X1.0
Weight: oz [g]	1.10 [31.2]

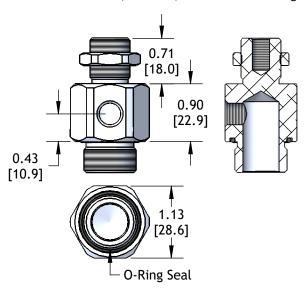
T-SLOT ADAPTERS

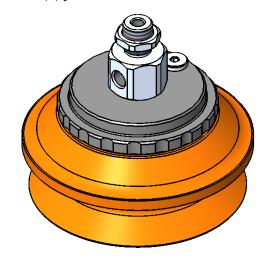


Adapter	A in [mm]	Thread	Weight oz [g]
TSA-18M	0.61 [15.5]	G 1/8 NPS	0.75 [21.3]
TSA-38M	0.79 [20.0]	3/8 NPSF	0.68 [19.3]
TSA-12M	0.79 [20.0]	G 1/2 NPS	0.59 [16.7]

SIDE VACUUM PORT ADAPTER

For use with 75-12F, 110-12F, and 150-12F fittings. JN-M16X1 (1) jam nut included.





12M-S18F-16M

Port Threads:	G 1/8 NPSF
Post Threads:	M16X1.0
Female Post Threads:	M8X1.25
Connection Threads:	G 1/2 NPSF
Weight: oz [g]	1.80 [50.8]

SS12: SHEET SEPARATOR

Used to warp the edges of sheet goods to promote separation from the next sheet in a stack. As vacuum is applied to the vacuum cup, the cup pulls the sheet against a crowned brass center post and warps it slightly to produce a small air passage under the sheet edge which facilitates sheet separation. One separator per corner is recommended. Depending on the size and thickness of sheet material, more units may be required. The degree of the warp can be adjusted by changing the projection distance of the center post from the cup cleats or the amount of vacuum applied to the vacuum cup. A 150 mm size cup produces a very large force and should only be used with thicker materials to prevent marking the product.

Sheet Separators can be ordered on their own to add to your cup by using the SS-12 part number. To order a sheet separator with a cup already attached, use the chart below. Sheet Separators are compatible with XP-F110 and XP-F150 cups using 12F fittings.

