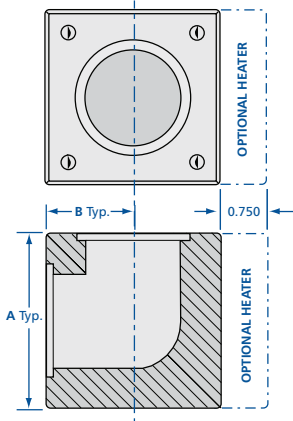


Isolation Valves Genesis Modular Fittings

SECTION 3.5



Genesis Modular Fittings

Genesis fittings provide the most compact, highest conductance, corrosion resistant vacuum connection available when used with Genesis valves, fittings and double stud fasteners. These fittings can also attach with finger clamps to standard ISO-KF components with universal O-rings, which are also available from Nor-Cal Products.

90° Elbow

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-102	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-152	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-202	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

Tee

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-103	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-153	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-203	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

4-Way Cross

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-104	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-154	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-204	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

5-Way Cross

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-105	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-155	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-205	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

6-Way Cross

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-106	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-156	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-206	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

Tri-Bow

MODEL NUMBER	VALVE SIZE	A	B	THREAD	BOLT CIRCLE
GNF-107	1 (25)	2.125 (54.0)	1.063 (27.0)	12-24	2.031 (51.6)
GNF-157	1½ (38)	2.500 (63.5)	1.250 (31.8)	12-24	2.616 (66.4)
GNF-207	2 (50)	3.250 (82.6)	1.625 (41.3)	¼-20	3.406 (86.4)

SPECIFICATIONS

Port ODs: 1, 1½ and 2 inches (25, 38 and 50mm). *Other size tubing diameters available*

Body: Electroless nickel coated 6061 T-6 aluminum with SS threaded inserts

O-rings: Viton standard

Assembly

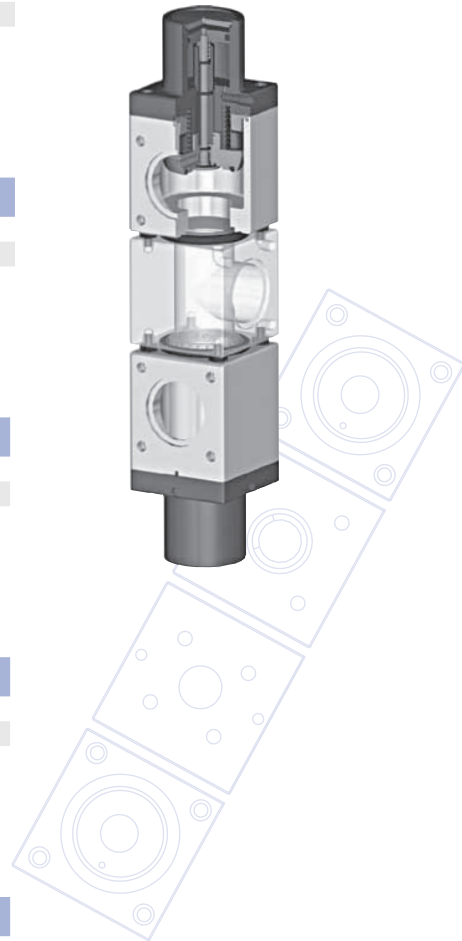
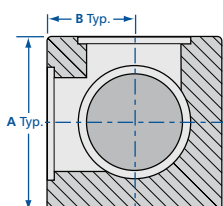
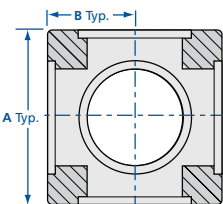
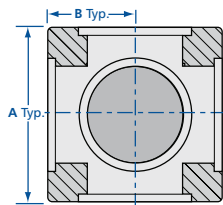
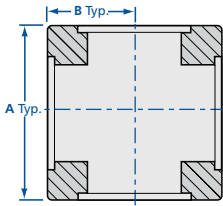
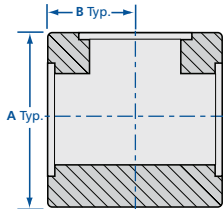
Fitting to fitting: Double-stud fasteners
Fitting to flange: Finger clamps

Helium leak rate: $\leq 1 \times 10^{-9}$ mbar l/sec.

Operating temperature

Sustained: 150°C
Intermittent: 204°C

Options: Modular heaters and heater jackets



Heaters and insulators are available on page 120