Vacuum Systems | Connectors & Tubing

ISO NW Inlet Connectors for **High Vacuum Pumps**

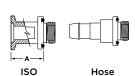
- Aluminum with o-ring
- No sealant required for installation
 For pumps above listed serial number

ISO	Thread Size	Pump Model	Serial No.	В	CAT. No.
NW 16	3/4-20"	1399	>26461	1.12	1393F
NW 16	3/4-20"	1400, 1400N	>18069	1.12	1393F
NW 25	1-20"	1405	>77703	1.2	1393G
NW 25	1-20"	1380	>2114	1.2	1393G
NW 25	1-20"	1402, 1402N	>133218	1.2	1393G
NW 25	1-20"	1376, 1376N	>14594	1.2	1393G
NW 40	1.75-20"	1374	>73519	1.4	1393H
NW 40	1.75-20"	1397	>51217	1.4	1393H
NW 16	3/4-20"	8905	All	1.12	8905K-05



Exhaust Connectors for High Vacuum Pumps

- For adding an exhaust line to a pump Connectors for vacuum hose and ISO NW



Connector

Pump	Hose Connector		ISO Connector			
Models	Hose I.D.	CAT. No.	Thread Size	ISO NW	Α	CAT. No.
1399, 1400, 8905, 8890	7/16"	1393J	3/4-20"	NW 16	1.12	1393F
1402, 1380, 1376, 1405	13/16"	1393K	1-20"	NW 25	1.2	1393G
1374, 1397	1-5/8"	1393L	1 3/4-20"	NW 40	1.4	1393H
1405, 1402	7/16"	1393M	1-20"	NW 25	1.2	1393G

Male NPT Pipe Inlet and **Exhaust Adapters**

Connector



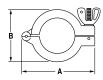
· Adapt inlet and exhaust to NPT Thread



Pump Model	Machine Thread	NPT Male Thread	CAT. No.
1400, 1399	3/4-20"	1/2"	1393N
1380, 1402, 1376, 1405	1-20"	3/4"	1393P

Hinged Clamps

 Aluminum • Closure by wing and nut bolt

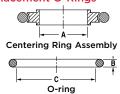


ISO	Α	В	Clamp Width	CAT. No.
NW 16	2.612	1.625	0.612	302201
NW 25	2.965	1.950	0.612	302202
NW 40	3.735	2.600	0.625	302203

Centering Assemblies & **Relacement O-Rings**

· Stainless steel centering ring with o-ring

•	Replaceable	Viton*	o-ring	seal
---	-------------	--------	--------	------



Centering Ring Assembly			Replacement O-Ring		
ISO	Α	CAT. No.	В	С	CAT. No.
NW 16	0.630	303101	0.210	0.725	304801
NW 25	0.984	303102	0.210	1.100	304802
NW 40	1.575	303103	0.210	1.600	304803

Rubber Hose Adapters

• ISO NW to rubber vacuum hose



ISO	Hose I.D., in.	Material	A in.	B in.	CAT. No.
NW 16	1/4	Stainless Steel	0.24	1.57	710739
NW 16	7/16	Aluminum	0.625	1.65	501241
NW 16	5/8	Aluminum	0.750	1.65	501251
NW 25	13/16	Aluminum	0.875	1.73	501262
NW 40	1-5/8	Aluminum	1.63	2.17	501283

Vacuum Systems | Connectors & Tubing

Red Vacuum Hose Hose Clamps

Very thick walled hose for vacuum or pressure applications
 Convenient worm screw clamps hand tighten



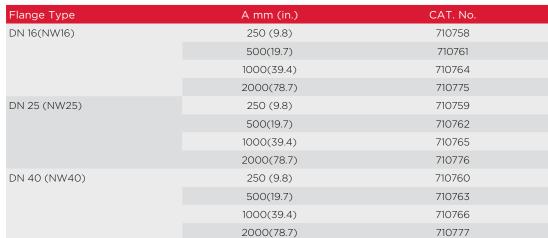
	Specifications	5		Hose Kit	CAT. No.		Clamps CAT. No.
I.D.	Wall Thickness	O.D.	5ft. Only	10 ft. Only	15 ft. Only	20 ft. Only	10/Pkg.
3/16"	5/16"	13/16"	331020-5	331020-10	-	-	305320
1/4"*	1/4"	3/4"	331030-5	-	-	-	305320
7/16"	5/16"	1-1/16"	331040-5	331040-10	-	-	305340
5/8"	3/8"	1-3/8"	331050-5	331050-10	-	-	305350
3/4"**	1/2"	1-3/4"	331060-5	331060-10	331060-15	331060-20	305360
1 5/8"	11/16"	3"	331080-5	331080-10	-	-	305380

Flexible Metal Hose

 Alternative to gum rubber vacuum hose • Cleanable with solvents

Maximum flexibility is achieved using thin wall, annealed, stainless steel accordion tubing. Each end of tubing has a welded DN(NW) flange to allow quick connection. Materials of construction: tubes 1.4404 and flanges 1.4571







90° Degree Elbows

Stainless steel
 Same size flange on both ports



ISO	А	CAT. No.
NW 16	1.50	383101
NW 25	2.04	383102

Tees

 Stainless steel · Same size flanges on all ports



ISO	А	CAT. No.
NW 16	1.50	384101
NW 25	2.04	384102

Reducers

· Stainless steel



ISO Fi	ISO F2	А	CAT. No.
NW 25	NW 16	0.555	387121
NW 40	NW 25	0.900	387132

Female Pipe Adapters

Male stubs have 1/4 - 18 NPT
 Hex shank



ISO	NPT	A	В	CAT. No.
NW 16	1/4"	0.281	1.1	505121
NW 25	1/4"	0.281	1.1	505122

Stainless steel

Vacuum Systems I Fine and High Vacuum Valves

Blank Off Flanges

• Stainless steel • To close off unused ports



ISO	В	CAT. No.
NW 16	0.20	388101
NW 25	0.20	388102

Female Pipe Adapters



• Female threads have 1/4 in. to 1/2 in. NPT	Stainless steel	Can be used with brass hose barbs

ISO	NPT	А	В	CAT. No.
NW 16	1/4"	0.62	0.50	506121
NW 25	1/4"	0.88	0.50	506122
NW 25	1/2"	0.88	0.50	506142

Vacuum Oven Adapter Kit



- Easy connection of vacuum pump with DN 16 KF(NW16) or DN 25 KF (NW25) flange to vacuum oven
- Kit includes 2.5 m(8.2 ft) vacuum hose, hose to flange adapters, hinge clamps, and centering rings

Use with Pump Model	CAT. No.
CRVpro 4, 6, 8, 16; MPC 1201T, 1801Z, 2401E, 601 Tp Ex; 2052, 2054, 2163. 2062, 2064, 2067	404005

Freeze Dryer and Concentrator Adapter Kit



- Freeze Dryer and Concentrator Quick connection of CHEMVAC to freeze dryer or concentrator
 - Kit includes hose to flange connector, hinge clamp ring, centering ring and 1.5 m(4.9 ft) of vacuum hose.

Use with Pump Model	CAT. No.
P6Z-101, CRVpro 4, 6, 8	330044
P12Z-301, P23Z-301, CRVpro 16	330045

Hose Adapter Kits

- Kits ensure proper sized tubing adaptors, and clamps for vacuum tight connections
- Kits include at least 5 ft.(1.5m) of thick walled rubber vacuum hose



Adapter Kits For Pump Models	Pump Inlet O.D.	Appliance Connector O.D.	CAT. No.
8890 (GEM)	3/8"	7/16" and 1/2"	1420H-01
1400, 1405, 1399, 8905	7/16"	1/4" and 3/8"	1420H-01
1402, 1380, CRVpro 4, 6, 8, 16	13/16"	1/4" and 3/8"	1420H-02

Tubing Connectors

• Plastic tubing connectors for gum rubber vacuum hose





Туре	Description	Length, in (cm)	Mating Tubing, ID in. (mm)	CAT. No.
Stopcock	Polyethylene two-piece valve. Vacuum tight to to 29.9 in. Hg(1 torr/1.3 mbar), Quarter turn shuts off flow	3.1 (8)	3/8 (9)	1395K
Hose Reducer	Polyethylene stepped straight connector; connect larger ID tubing to smaller ID tubing	3.5 (9)	7/16 to 3/8 (11 to 9)	357220
Hose Reducer	Polyethylene stepped straight connector; connect larger ID tubing to smaller ID tubing	3.5 (9)	13/16 to 3/8(21 to 9)	357630
Y- connector	PP (Polypropylene) barbed connector	3.5 (9)	3/8 (9)	829923
Hose Barb	PP barbed to thread connector, DN 8 male 1/8 in.	2 (5)	3/8 (8)	710953
Hose Barb	PP barbed to thread connector, DN 10 male 1/4 in.	2 (5)	3/8 (10)	710955