

# Flanges & Fittings - NW Assembly Hardware

## Wing Nut & Bulkhead Clamps



### SPECIFICATIONS

**Tube OD sizes:** 1/2 to 2 inches

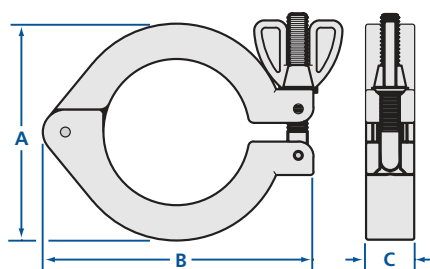
#### Materials

Clamps: Aluminum

**Fasteners:** Wingnut, SureSeal & bulkhead

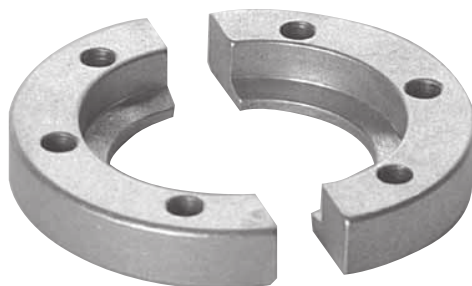
#### Vacuum range

Elastomer seal:  $\geq 1 \times 10^{-8}$  Torr -High vacuum



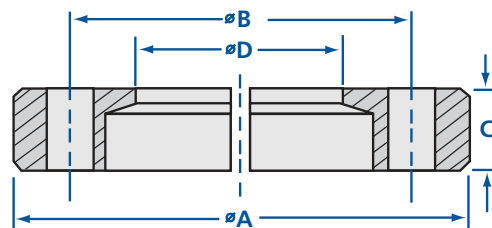
### NW Wing Nut Clamps

| MODEL NUMBER | A     | B     | C     |
|--------------|-------|-------|-------|
| NW-10-CP     | 1.690 | 2.392 | 0.625 |
| NW-16-CP     | 1.690 | 2.392 | 0.625 |
| NW-25-CP     | 2.140 | 2.796 | 0.625 |
| NW-40-CP     | 2.750 | 3.437 | 0.625 |
| NW-50-CP     | 3.500 | 4.245 | 0.710 |



### NW Bulkhead Clamps

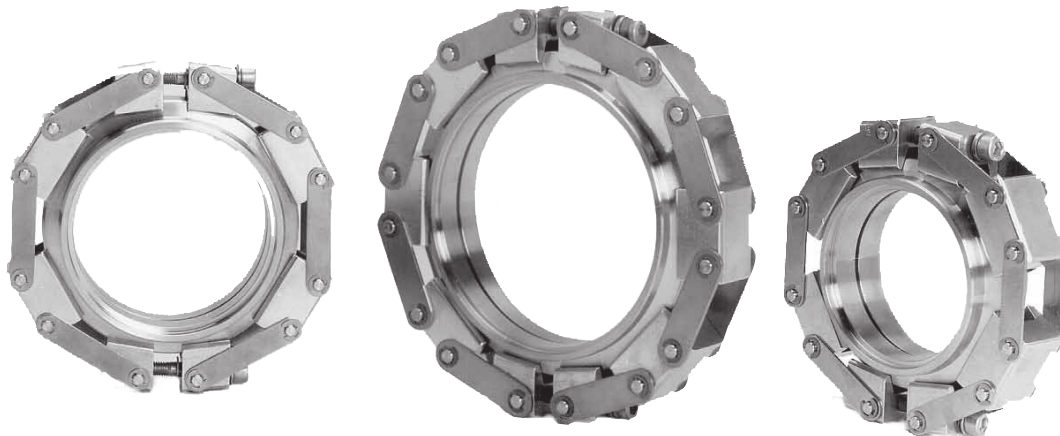
| MODEL NUMBER | A    | B    | C     | NUMBER OF SCREWS | THROUGH HOLE D |
|--------------|------|------|-------|------------------|----------------|
| NW-16-BCP    | 2.00 | 1.50 | 0.361 | 6                | 0.90           |
| NW-25-BCP    | 2.37 | 1.89 | 0.387 | 6                | 1.26           |
| NW-40-BCP    | 2.94 | 2.44 | 0.366 | 6                | 1.84           |
| NW-50-BCP    | 3.75 | 3.25 | 0.404 | 8                | 2.35           |



REV 6/16

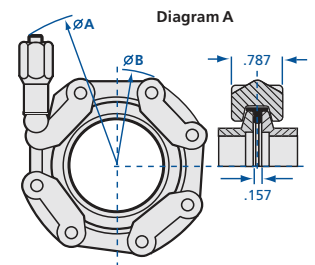


# Flanges & Fittings - Chain Clamps



## Chain Clamps for NW-16 to 50 Flanges – Aluminum Links

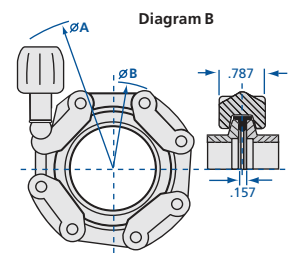
| MODEL NUMBER | DIAGRAM | APPLICATION              | A    | B    | MAXIMUM TEMPERATURE | TORQUE (LB. IN.)<br>ELASTOMER / METAL |
|--------------|---------|--------------------------|------|------|---------------------|---------------------------------------|
| NW-16-CC-AN  | A       | Metal or Elastomer Seals | 4.53 | 2.36 | 150°C               | 9 / 22                                |
| NW-25-CC-AN  | A       | Metal or Elastomer Seals | 4.92 | 2.76 | 150°C               | 13 / 26                               |
| NW-40-CC-AN  | A       | Metal or Elastomer Seals | 5.32 | 3.35 | 150°C               | 18 / 39                               |
| NW-50-CC-AN  | A       | Metal or Elastomer Seals | 5.98 | 4.13 | 150°C               | 22 / 44                               |



## Chain Clamps for NW-16 to 50 Flanges - Teflon Coated Links\*

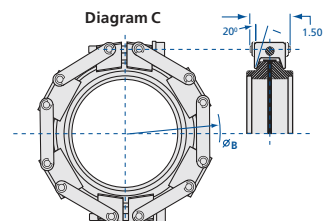
| MODEL NUMBER | DIAGRAM | APPLICATION                | A    | B    | MAXIMUM TEMPERATURE | TORQUE (LB. IN.)<br>ELASTOMER / METAL |
|--------------|---------|----------------------------|------|------|---------------------|---------------------------------------|
| NW-16-CC-TN  | A       | No radius, metal/elastomer | 4.53 | 2.36 | 150°C               | 9 / 22                                |
| NW-25-CC-TN  | A       | No radius, metal/elastomer | 4.92 | 2.76 | 150°C               | 13 / 26                               |
| NW-40-CC-TN  | A       | No radius, metal/elastomer | 5.32 | 3.35 | 150°C               | 18 / 39                               |
| NW-50-CC-TN  | A       | No radius, metal/elastomer | 5.98 | 4.13 | 150°C               | 22 / 44                               |

\*Not radiation resistant



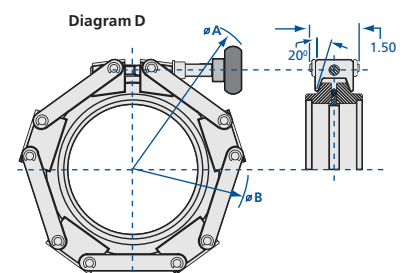
## Chain Clamps for NW-63 Flanges

| MODEL NUMBER | DIAGRAM | APPLICATION              | A    | B    | MAXIMUM TEMPERATURE | TORQUE (LB. IN.)<br>ELASTOMER / METAL |
|--------------|---------|--------------------------|------|------|---------------------|---------------------------------------|
| NW-63-CCV-AN | B       | Elastomer seals only     | 6.69 | 4.72 | 100°C               | -                                     |
| NW-63-CC-AN  | A       | Metal or elastomer seals | 6.30 | 4.72 | 150°C               | 22 / 44                               |



## Chain Clamps for 80 and 100 mm Tapered Flanges

| MODEL NUMBER  | DIAGRAM | APPLICATION          | A     | B    | MAXIMUM TEMPERATURE | TORQUE (LB. IN.) |
|---------------|---------|----------------------|-------|------|---------------------|------------------|
| NW-80-CCV-AS  | D       | Elastomer seals only | 9.61  | 6.06 | 150°C               | -                |
| NW-80-CC-TS   | C       | Metal seals only     | -     | 6.30 | 150°C               | 75               |
| NW-100-CCV-AS | D       | Elastomer seals only | 10.08 | 6.77 | 150°C               | -                |
| NW-100-CC-TS  | C       | Metal seals only     | -     | 7.09 | 150°C               | 88               |



REV 6/16