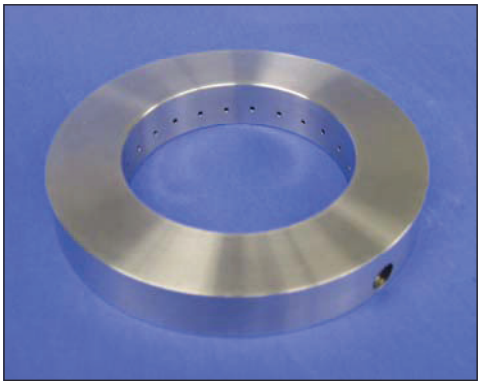
# CANTY

## PROCESS TECHNOLOGY

# JET SPRAY RING





## APPLICATIONS

- Process Vessels
- Laboratory Reactors
- Research Vessels
- Dryers
- Pressure Chambers
- Incinerators
- In Line Mixer
- Many, many more!

## UNIQUE DESIGN

The Canty Jet Spray Ring generates a high pressure vortex rinsing action to remove tough deposits from sight glasses, lights, and vision systems.

The Jet Spray Ring accepts a rinsing/cleaning solution and distributes the pressurized material through the specially designed rinse ports. These rinse ports have been engineered to provide maximum cleaning power in a compact package. The Jet cleaning action expels all debris from the sight glass, providing an exceptional view into the process.

The Jet Spray Ring may be used for constant preventive or instantaneous blast-off cleaning. As a suggestion, cleaning may be timed for 5 seconds every hour, or tied in with normal CIP (Clean in Place). Any low viscosity fluid compatible with your process may be used. Common cleaning agents for powder service include air and nitrogen, while common liquid service agents include water or solvents.

## OPTIONS

- Tri-clamp model available (see TA7653-1 data sheet)
- Surveillance camera model available
- Sanitary bolt-on Fuseview model available
- Create an Orifice plate to prevent product sticking with a small internal diameter gasket

## JET SPRAY RING MODELS

- *Open Channel:* Most popular spray ring model. For use with Fuseview™ flat gasket, non-insertion style lights, and cameras. Recommended for use with full-faced gaskets. Fluid distribution channel is accessible.
- *Closed Channel:* For use with Fuseview™ flat gasket, non-insertion style lights, and cameras. Fluid distribution channel is not accessible.
- *Closed Channel Insertion*: Use with any Canty insertion camera or light.

## FEATURES

| | |
|---|---|
| Materials: | Stainless Steel<br>Alloy C<br>Hastelloy® C276 or equal<br>Hastelloy® C-22® or equal<br>Aluminum<br>Titanium<br>Monel®<br>Inconel®<br>Teflon® |
| Mounting: | ANSI and DIN sizes |
| Pressures: | 150 PSI, 300 PSI, 600 PSI<br>10 bar, 16 bar, 25 bar, 40 bar<br>Pressures up to 5000 PSI available |
| Sizes: | 1.5” ANSI and larger<br>32 mm DIN and larger |

## JET SPRAY RING - US SPACE PROGRAM ORIGINATION

The Jet Spray Ring was originally designed to eliminate bothersome PVC build-up on sight glasses and used in the manufacture of heat shield tile epoxy for the US space shuttle program. Since it’s original conception, the spray ring has been used on many applications in the pharmaceutical, chemical, petrochemical, and dairy industries.

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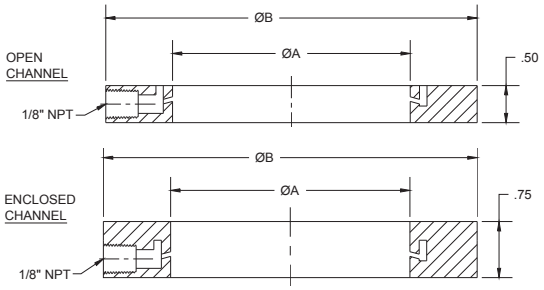
# SPRAY RING SPECIFICATIONS

## FLUSH MOUNT SPRAY RING



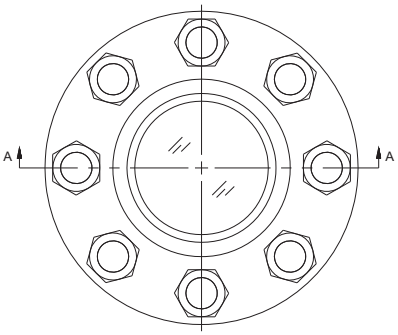

| SIZE | ANSI A | ANSI B | DIN A | DIN B |
|---|---|---|---|---|
| 1.5" [32mm] | 1.70" | 3.00" | 56mm | 88mm |
| 2" [50mm] | 2.20" | 3.63" | 56mm | 92mm |
| 3" [80mm] | 3.20" | 5.00" | 81mm | 127mm |
| 4" [100mm] | 4.20" | 6.00" | 107mm | 152mm |
| 6" [150mm] | 6.20" | 8.38" | 157mm | 213mm |
| 8" [200mm] | 8.20" | 10.50" | 208mm | 267mm |
| 10" [250mm] | 10.20" | 12.00" | 246mm | 305mm |

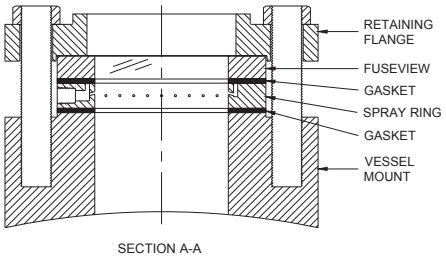
**Design Data**

**Delta P Required:**
28-30 PSI above Internal pressure

**Maximum Flow Rate:**
1.8 gal/min at 30 psi

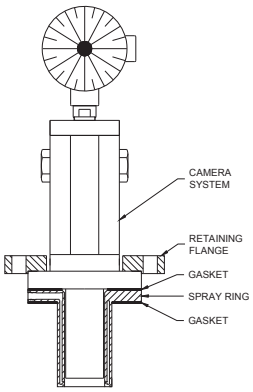
**Maximum Pressure:**
5,000 psi
On certain models
Consult factory for details



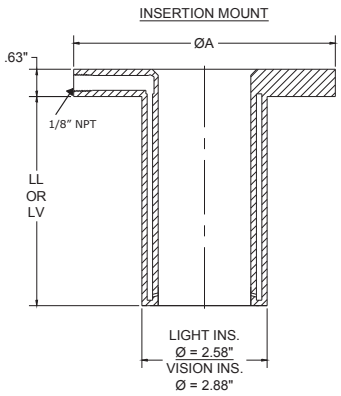




SECTION A-A

## INSERTION SPRAY RING




| SIZE | ANSI A | DIN A | LV | LL |
|---|---|---|---|---|
| 3" [80mm] | 5.00" | 127mm | 5.25"[133mm] | 2"-16" [76.2-406.4mm] |
| 4" [100mm] | 6.00" | 152mm | 5.25"[133mm] | 2"-16" [76.2-406.4mm] |
| 6" [150mm] | 8.38" | 213mm | 5.25"[133mm] | 2"-16" [76.2-406.4mm] |
| 8" [200mm] | 10.50" | 305mm | 5.25"[133mm] | 2"-16" [76.2-406.4mm] |




## Ordering Information

HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

**EXAMPLE:** **SR** _ _ _ _ _

MODEL:
1 = Open Channel
2 = Enclosed Channel
3 = Insertion Light
4 = Insertion Camera

PRESSURE:
A = 150 psi 1=10 bar
B = 300 psi 2=16 bar
D = 600 psi 3=25 bar
4=40 bar

MATERIAL:
1 = 316L Stainless Steel
3 = Hastelloy® C
4 = Hastelloy® C276 or equal
5 = Hastelloy® C-22® or equal
6 = Inconel® 601
7 = Aluminum
8 = Teflon® (open channel only)
9 = Monel® 400

INSERTION LENGTH:
A = NONE (open & enclosed models)
B = 2" / 50.8mm
C = 3" / 76.2mm
D = 4" / 101.6mm
E = 5" / 127mm
F = 6" / 152.4mm
G = 7" / 177.8mm
H = 8" / 203.2mm
I = 8.5" / 215.9mm
J = 9" / 228.6mm
K = 10" / 254mm
L= 11" / 279.4mm
M = 11.5" / 292.1mm
N = 12" / 304.8mm
P = 13" / 330.2mm
Q = 14" / 355.6mm
R = 15" / 381mm
S = 16" / 406.4mm

Note: For an insertion camera the 6" [152.4mm] length is actually 5.25" [133mm]

SIZE:
A = 1.5"
B = 2"
C = 3"
D = 4"
E = 6"
F = 8"
G = 10"
H = 32mm
I = 50mm
J = 80mm
K = 100mm
L = 150mm
M = 200mm
N = 250mm

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