

## INJECTION WAFER DATA SHEET (IW- SERIES)



Injection Wafers are designed to be installed between flanges — sandwiched between the pipe flange and a mating flange.

Injection wafers can be used as simplified injection ports for installing injection quills. For sludge dewatering applications they can be used for injecting dilute polymer around the perimeter of a flow.

### **Styles Available**

Injection wafers are available with:

- Threaded ports
- Flanged ports

Injection wafers can be provided with:

- Full Flange design (including bolt holes)
- Ring style design which fits within the bolt circle of the flange bolts

### **Simplifies Chemical Injection**

Provides a chemically compatible material for chemical injection or installation of injection quills.

### **Ease of Installation**

Injection Wafers allow easy installation of injection points into an existing or new pipeline. If you can find 2" of play in the pipeline, a wafer can be installed quickly and easily with little downtime.

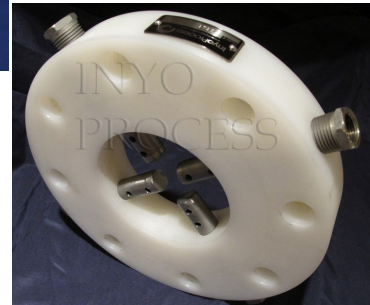
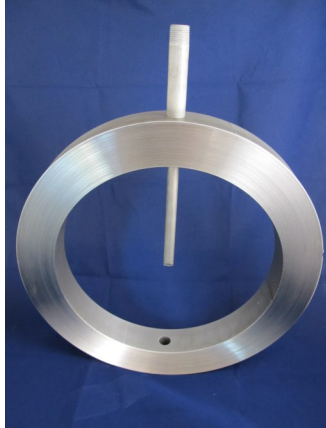
### **Materials of Construction**

Injection Wafers are available in many materials including:

- PVC & CPVC
- Stainless Steel
- Epoxy Coated Carbon Steel

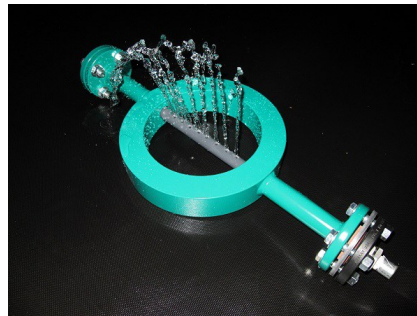
Other materials such as HDPE and Kynar may be available

**IW SERIES INJECTION WAFERS ARE  
DESIGNED FOR INSTALLATION  
BETWEEN 150# FLANGES.**



*Clockwise from top:*

- Ring style SS injection wafer shown with optional threaded injector.*
- Full Face PVC injector with (4) NPT ports. For dilute polymer injection into sludge.*
- Custom Full Face injection wafer constructed of Kynar with optional multi-hole diffusers for a slurry mixing application.*
- Ring style SS injection wafer with flanged port.*



*Above: A flanged ring style injection wafer constructed from epoxy coated steel. Shown with dual ports and an optional multi-hole diffuser for providing maximum dispersion of a chemical in a pipeline.*

MODEL NUMBER

IW - R - P - 4 - 2 - 3/4 - F - 180

WAFER STYLE

- FULL FACE FLANGE (F)
- RING STYLE (R)

MATERIAL

SPOOL DIAMETER (IN)

NUMBER OF PORTS

INJECTION PORT DIAMETER (IN)

FLANGED PORT (F) OR NPT THREADED (T)

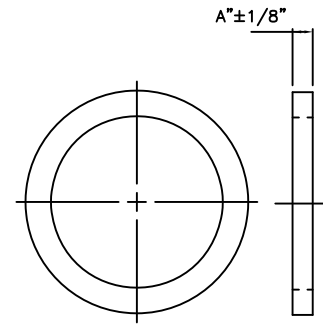
ANGLE OF SEPARATION BETWEEN PORTS

(LEAVE EMPTY IF ONLY ONE PORT)

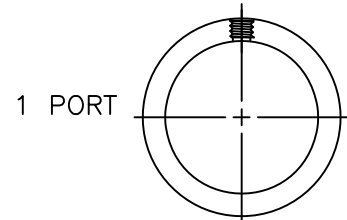
2 PORTS IS TYPICALLY 180° OR 90°

3 PORTS IS TYPICALLY 270° (90° EACH)

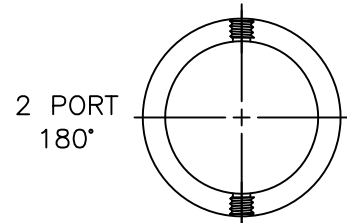
4 PORTS IS TYPICALLY 90°



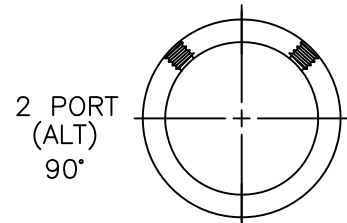
TYPICAL CONFIGURATIONS



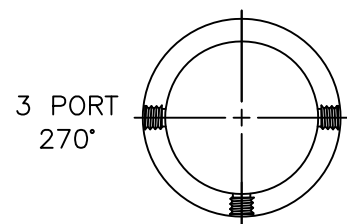
1 PORT



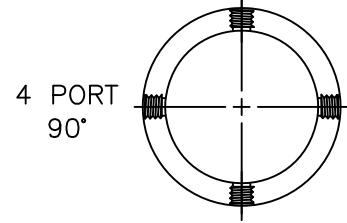
2 PORT 180°



2 PORT (ALT) 90°



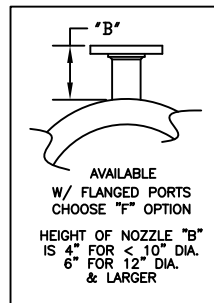
3 PORT 270°



4 PORT 90°

150# & 125# CLASS ANSI FLANGE TABULATION BLOCK

LINE SIZE NPS	"A" THICKNESS (in)
3	
4	
6	1-1/2" THK FOR 1/2" PORT
8	
10	
12	2" THK FOR 3/4" (PVC & METAL)
14	1" PORT (METAL)
16	
18	3" THK FOR 1" PORT (PVC)
20	
24	



SYMBOL	MATERIAL	RATING
C	EPOXY LINED CARBON STEEL	240 PSIG/200°F
S	STAINLESS STEEL	240 PSIG/200°F
CP	CPVC	100 PSIG/165°F
P	PVC	150 PSIG/100°F
H	HDPE	NOT RATED

NOTES:

1. LARGER DIAMETERS ARE AVAILABLE PLEASE CALL FACTORY
2. ALSO AVAILABLE FOR DIN, AUSTRALIAN & BRITISH FLANGES
3. CUSTOM SIZES AND CUSTOM PORT ARRANGEMENTS AVAILABLE. CALL FACTORY FOR PART NUMBERS
4. AVAILABLE WITH MATCHING GASKETS IN ALL STANDARD MATERIALS INCLUDING: VITON NEOPRENE, BUNA, EPDM, TEFLON

UNLESS OTHERWISE SPECIFIED	PROJECT NO.	STANDARD	INYO PROCESS			
	DRAWN	RT				
DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING	CHECKED	ES	STANDARD INJECTION WAFER			
	DESIGN APPROVED	-				
	MFG. APPROVED	-				
	QA APPROVED	-				
	RELEASE DATE	9-11-11				
	SIZE A		DRAWING NO IW-1000	REV 4		
	SCALE	NTS	WEIGHT	SHEET	1 OF 1	