

 Document Number
 Issue Date
 Rev. Date

 DPL82088
 6/13/1995
 1/11/2022

# Auxiliary Fittings Dimensional Drawings

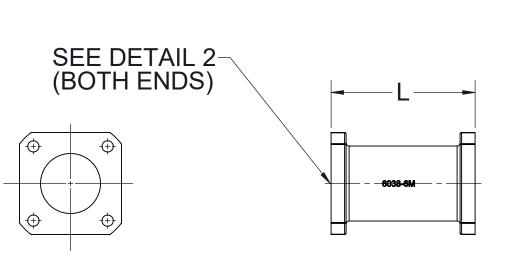
**Auxiliary Fittings for Intake and Discharge Fitting Pads** 

Specify Installation of these fittings on main intake and discharge fitting pads to achieve a custom piping configuration.

These fittings are divided into type groups which are referred to on the intake and discharge fitting dimensional drawings. Refer to the table column \*install aux fittings\* on those drawings and using the type group specified. Locate and choose additional fittings to be installed on those pads.

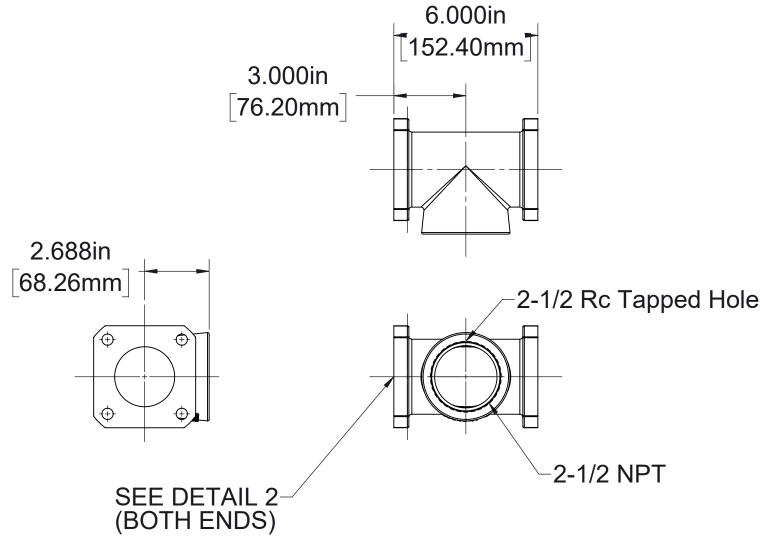
FITTING TYPE	DESCRIPTION	SEE PAG
TYPE 1	2-1/2 in. 4-Bolt Machined Pads	2-6
TYPE 2	2-1/2 in. NPT Openings	7
TYPE 3	2 in. NPT Openings	7
TYPE 4	1-1/2 in. NPT Openings	7
TYPE 7	3-1/2 in. Discharge Valves	8-9
TYPE 8	3, 3-1/2, or 4 in. 8-Bolt Machined Pads	10-15
TYPE 9	3 in. NPT Openings	15
TYPE 11	5 in. Flanged Ends on Intake Fittings	16
TYPE 12	6 in. Flanged Ends on Intake Fittings*	17
TYPE 13	6 in. Threaded Ends on Intake Fittings	18
TYPE 14	3 in. Relief Valve Pad	19
TYPE 15	4 in. Relief Valve Pad	20
TYPE 17	6 in. Flanged Ends on 6-3/4 in. Long Intake Fittings	21
TYPE 19	Dump Flange on Intake Nipples	22
TYPE 20	Relief Valve Spacers	22
TYPE 23	5 in. Threaded Ends on Intake Fittings	23
TYPE 24	4 in. ANSI Flanges	24-25
TYPE 25	3-1/2 in. Front Discharge	26-27
TYPE 30	82952 Oversized Pant Leg Intake Fittings, 8 in. Flange*	28
TYPE 36	2-1/2 in. Uni-Body (Akron/Elkhart) 4-Bolt Machined Pads	29
TYPE 70	Conductivity Probe Tap	30
TYPE 71	3 in. Uni-Body (Akron/Elkhart) 4-Bolt Machined Pads	30
TYPE 75	2-1/2 in. AWG Valves	31
	*FOR JAMESBURY BUTTERFLY VALVES-SEE DRAWING DPL83723	<u> </u>

#### **TYPE 1 - FITTINGS FOR 2-1/2 IN. 4-BOLT MACHINED PADS**



PART NO.	L	INCLUDES GASKET
6038-3A	3.00/76.20	
6038-4A	4.00/101.60	51218
6038-6A	6.00/152.40	31210
6038-6A	8.00/203.20	

**EXTENSIONS** 

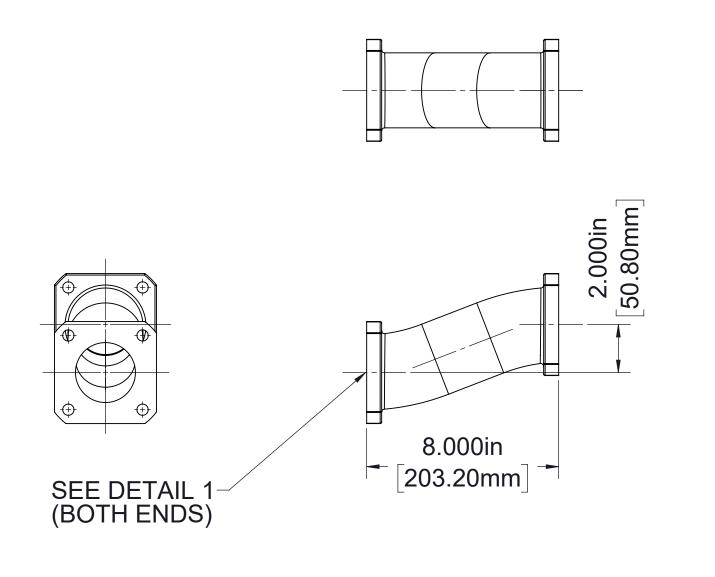


PART NO.

60346-A

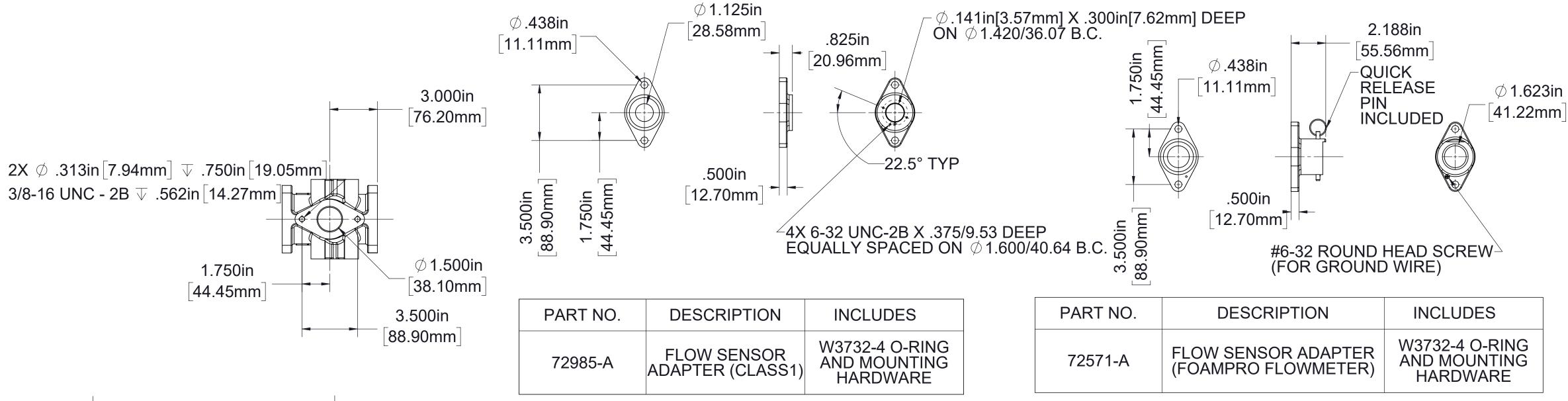
INCLUDES GASKET

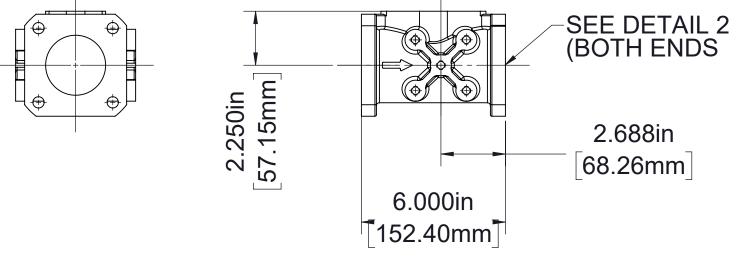
51218



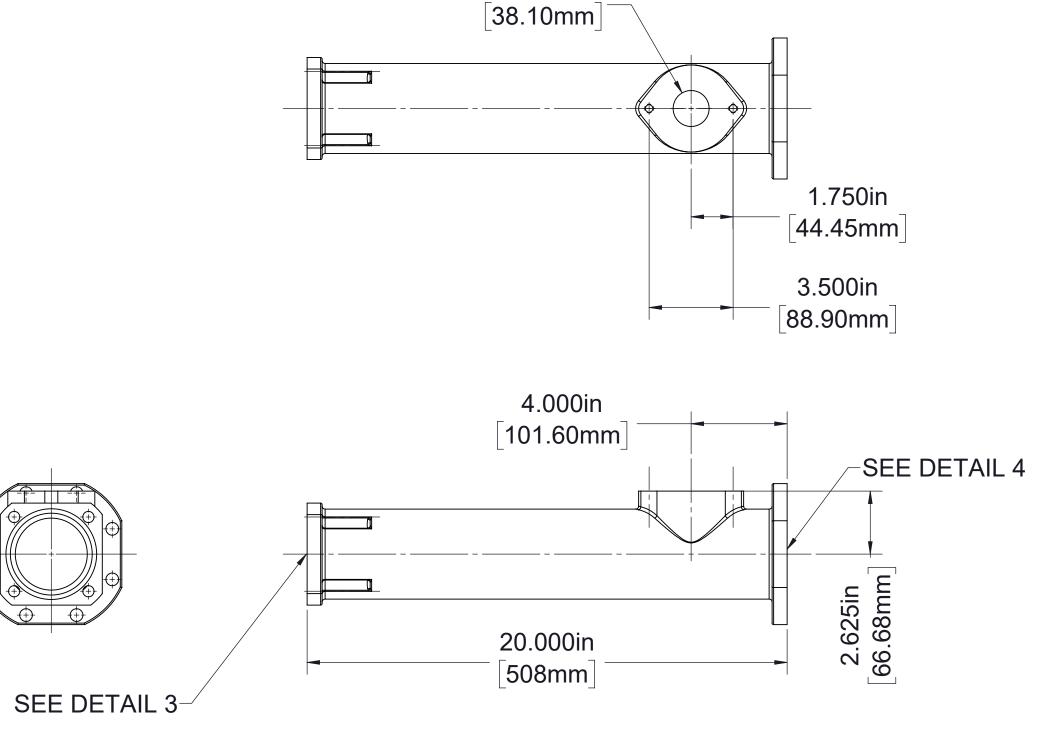
PART NO.	INCLUDES GASKET
71037-A	51218

#### ADAPTERS FOR FLOWMETER PAD ON FITTINGS 71916-A AND 81799-A

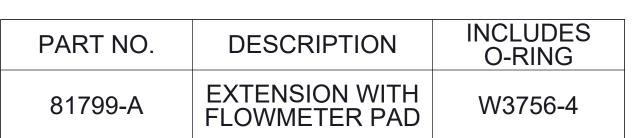




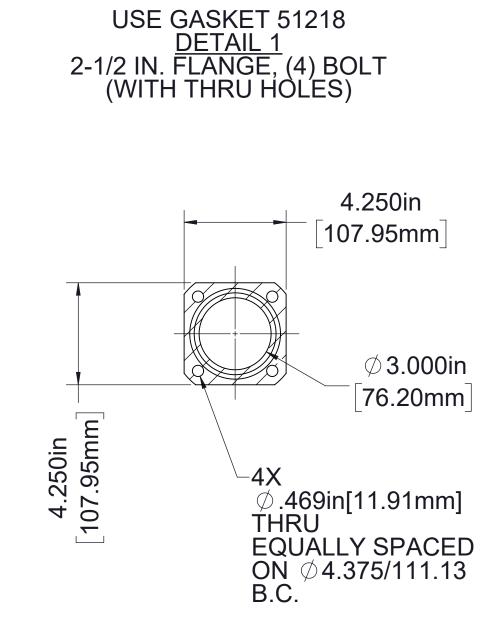
PART NO.	DESCRIPTION	INCLUDES GASKET
71916-A	EXTENSION WITH FLOWMETER PAD	51218

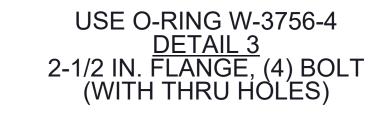


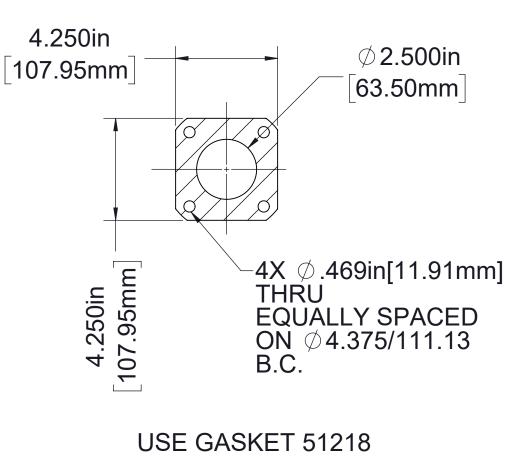
Ø 1.500in

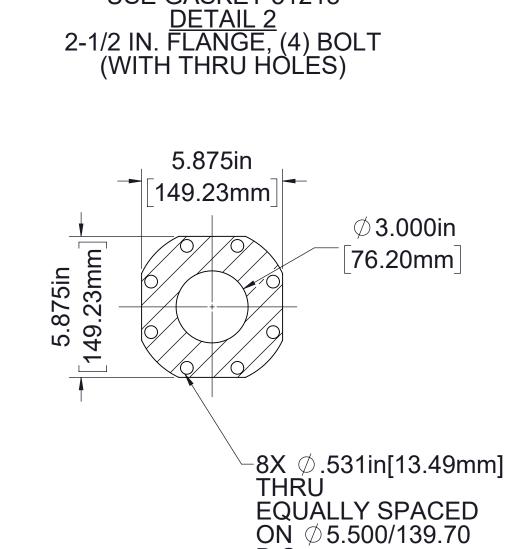


4.250in 107.95mm  $\emptyset$  2.500in 63.50mm 4.250in [107.95mm]  $\emptyset$ .500in[12.70mm] **EQUALLY SPACED** ON Ø4.375/111.13











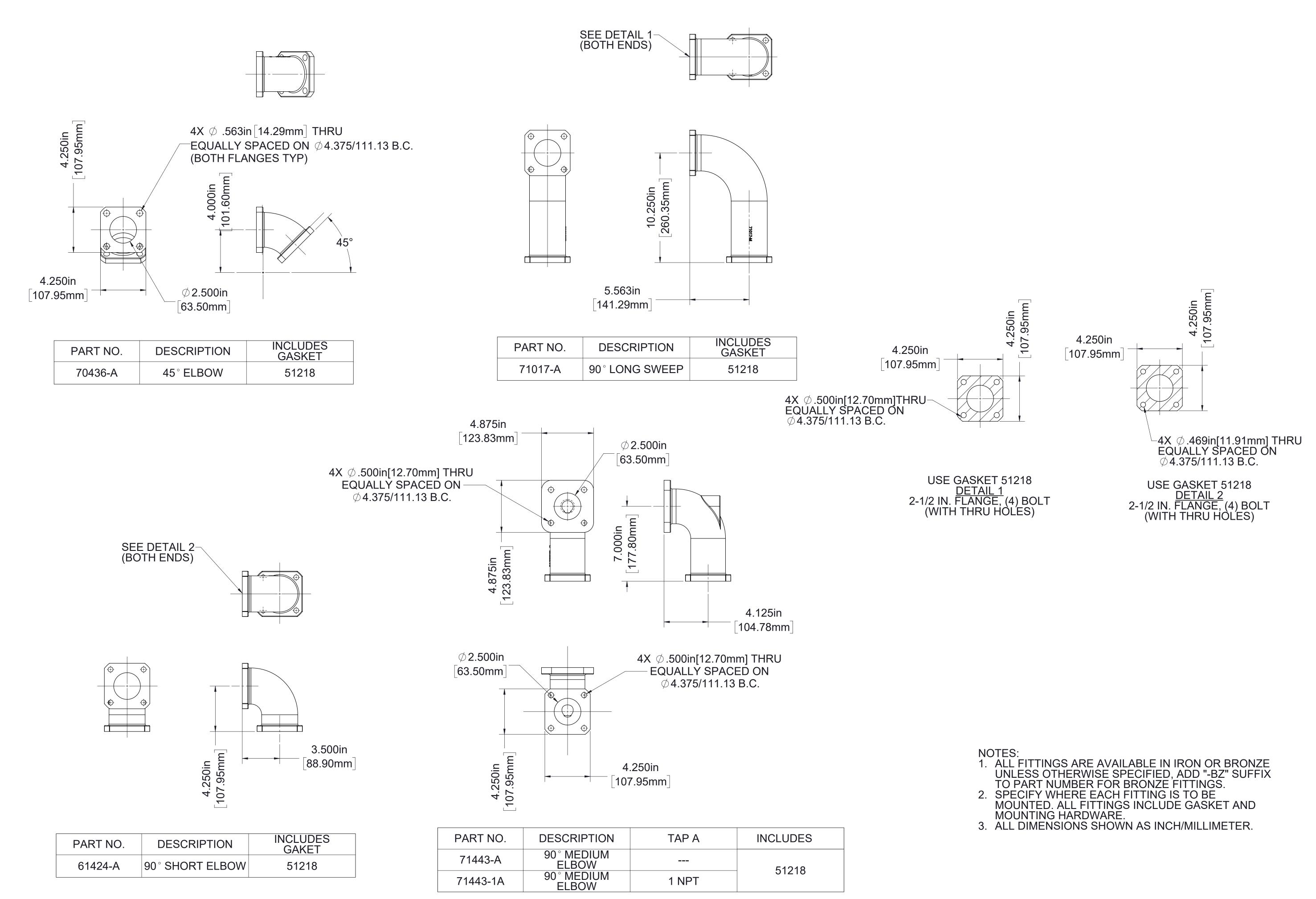
- ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
   SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.

  DF
- 3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

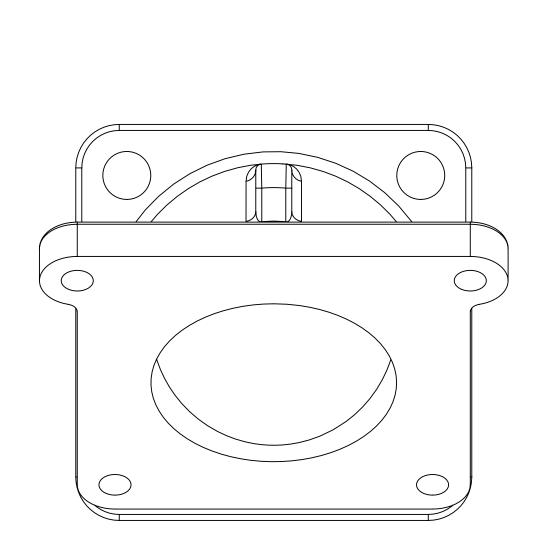
DPL82088

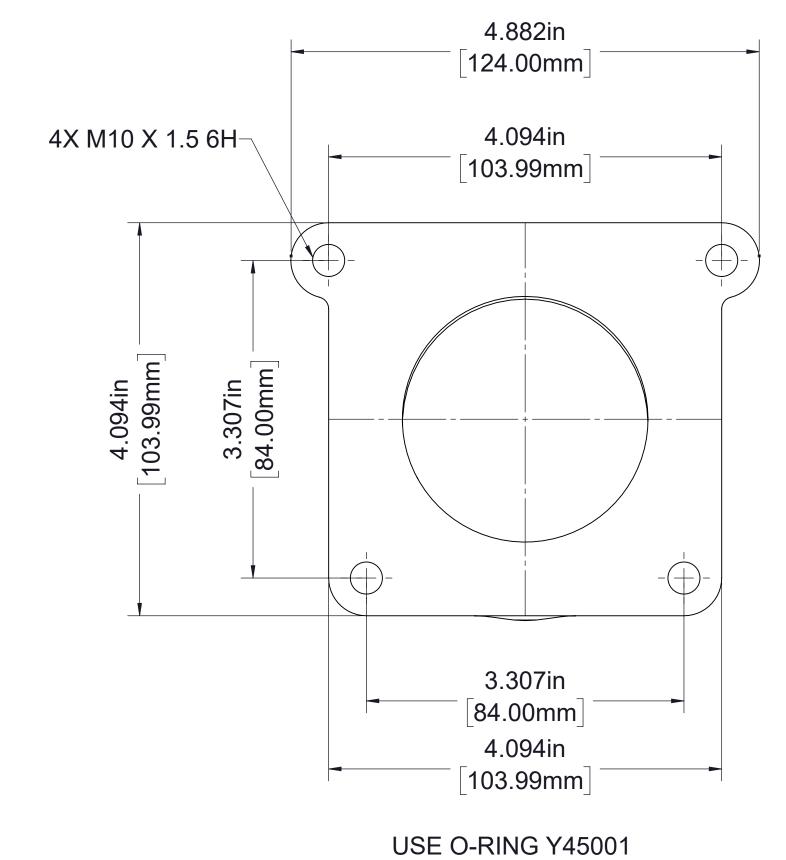
#### **TYPE 1 - FITTINGS FOR 2-1/2 IN. 4-BOLT MACHINED PADS**

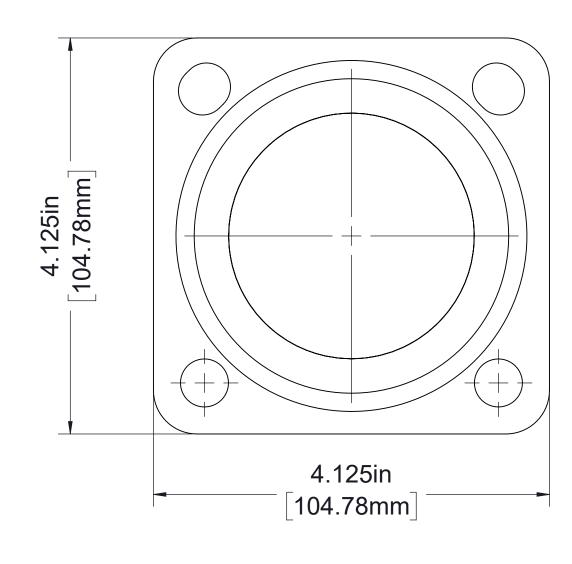
#### **ELBOWS**



### TYPE 1 - FITTING FOR 2-1/2 IN. 4- BOLT MACHINIED PADS





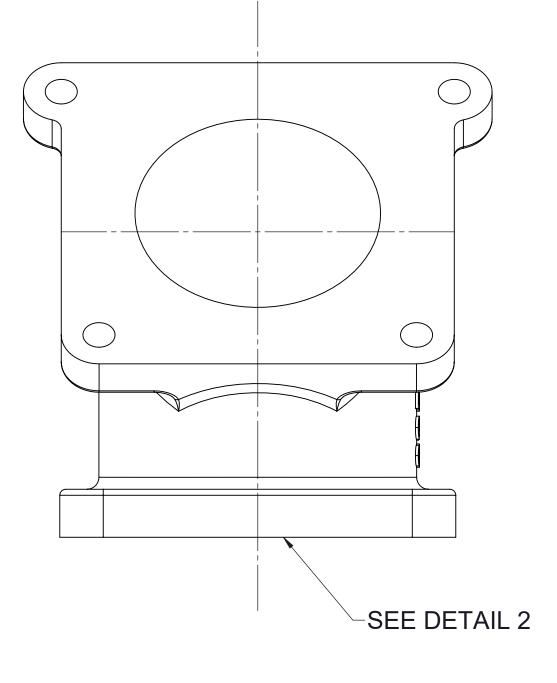


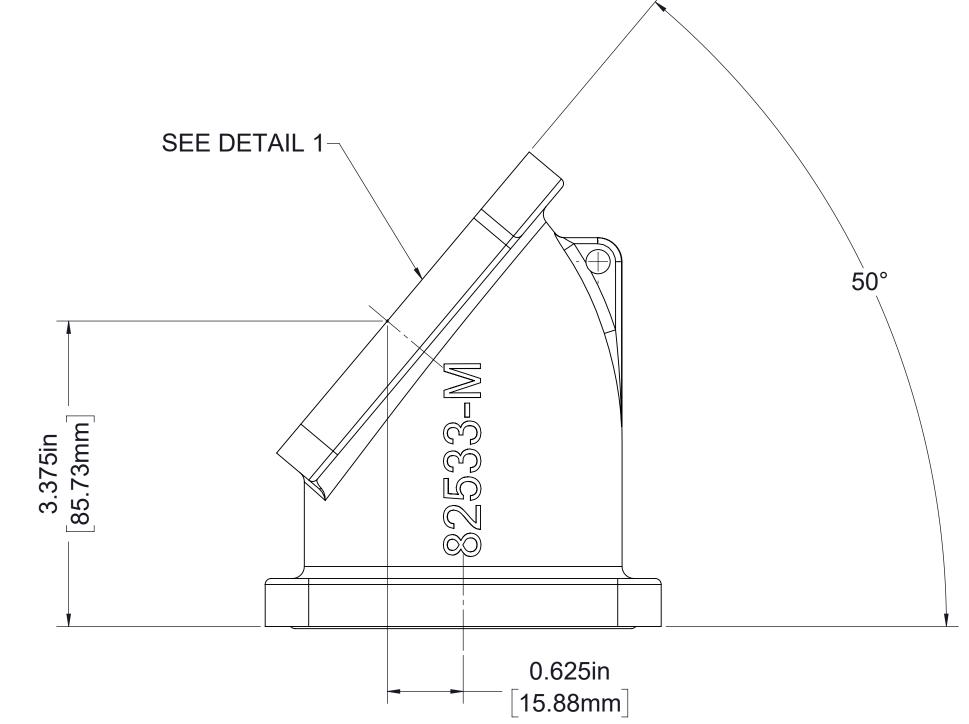
4X Ø .500 IN. (12.75MM) THRU EQUALLY SPACED ON Ø4.330 B.C.

USE O-RING W3754-4

**DETAIL 2:** 2-1/2 IN. FLANGE (4)BOLTS (WITH THRU HOLES)







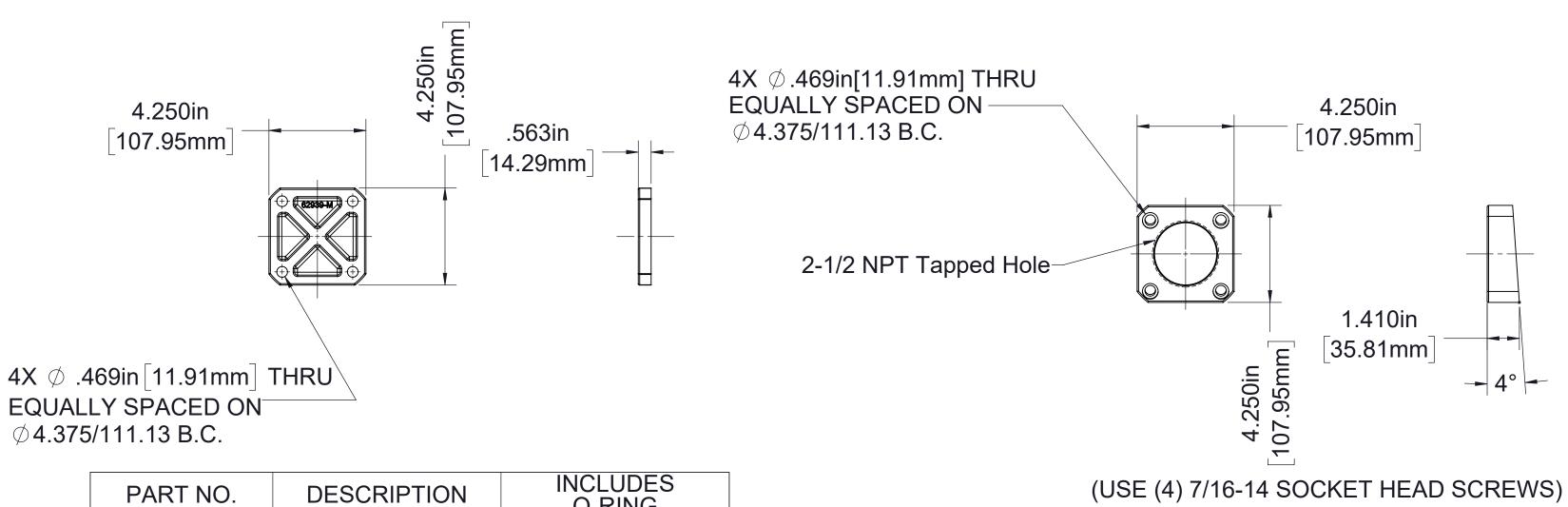
PART NUMBER	DISCRIPTION	INCLUDES
82533-ABZ	30° ELBOW- DISCHARGE	W3754-4

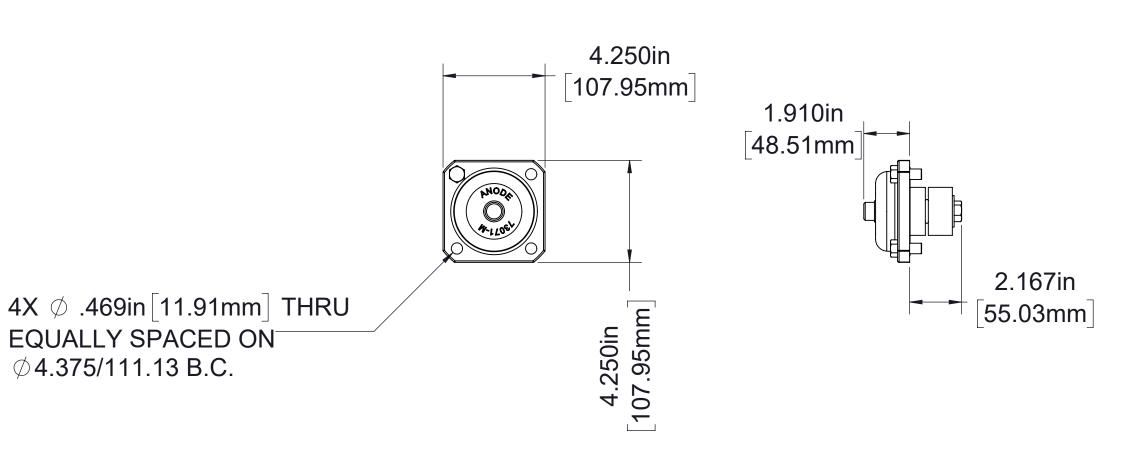
NOTES: 1. SPECIFY WHERE FITTINGIS TOBE MOUNTED.

2. ALL DIMENSIONS SHOW AS INCH/ MILLIMETER.

#### **TYPE 1 - FITTINGS FOR 2-1/2 IN. 4-BOLT MACHINED PADS**

#### **FLANGES**



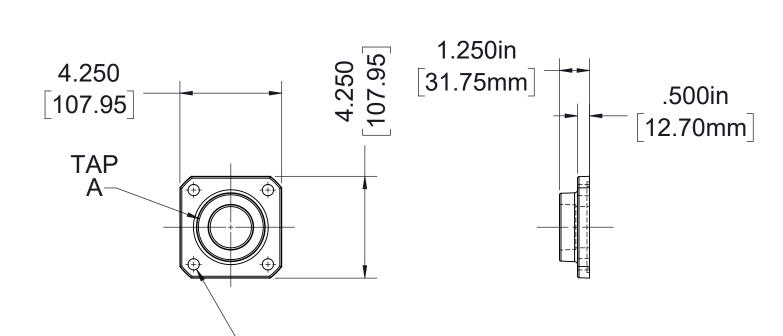


ΓNO.	DESCRIPTION	INCLUDES O-RING	

W-3756-4

PART NO.	DESCRIPTION	TAP A	INCLUDES O-RING
62605-A	ANGLE COMPENSATED	2.5 NPT	W3756-4
62605-1A	TAPPED FLANGE	3 NPT	VV3730-4

PART NO. **DESCRIPTION** PUMP MAT'L 82904-1A **IRON** Anode

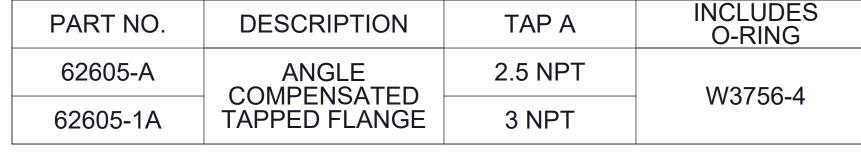


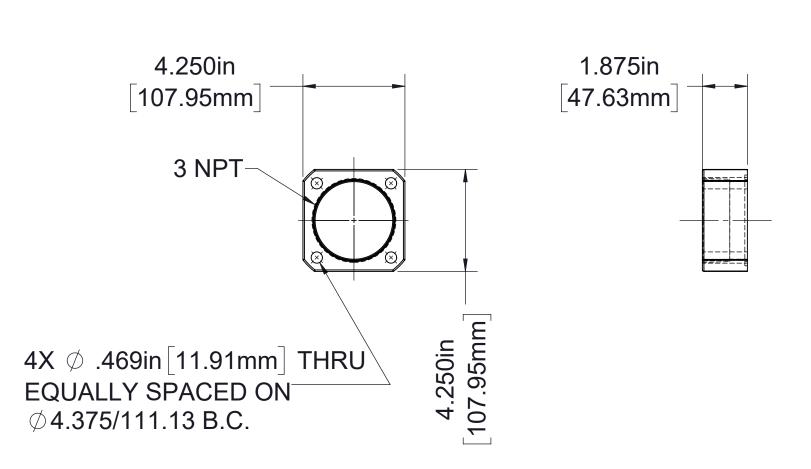
**BLIND FLANGE** 

4X ∅ .469in [11.91mm] THRU EQUALLY SPACED ON-Ø4.375/111.13 B.C.

62939-A

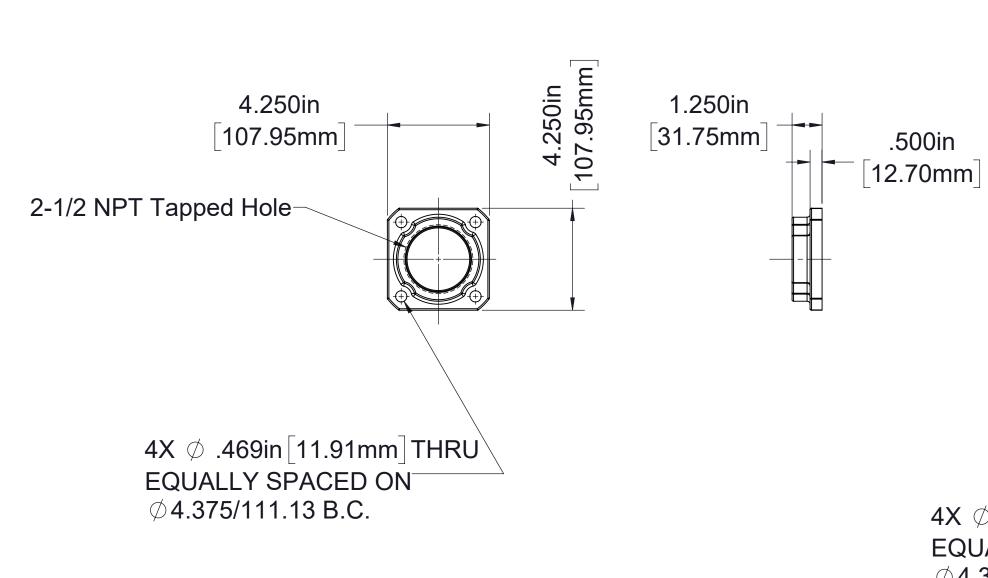
PART NO.	DESCRIPTION	TAP A	INCLUDES O-RING
63048-A	TAPPED FLANGE	1.5 NPT	W-3756-4
62897-A	IAFFED FLANGE	2 NPT	VV-3730-4



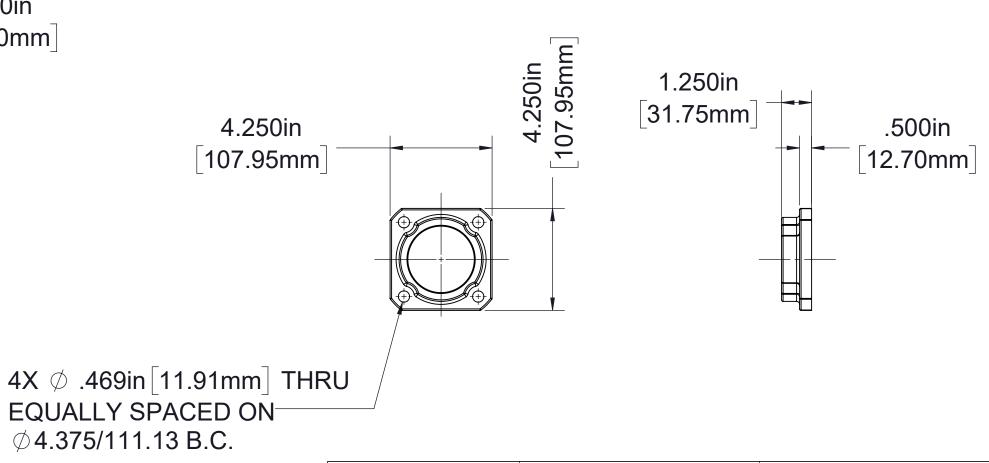


(USE (4) 7/16-14 SOCKET HEAD SCREWS)

PART NO.	DESCRIPTION	INCLUDES O-RING
61636-A	3 NPT TAPPED FLANGE	W-3756-4

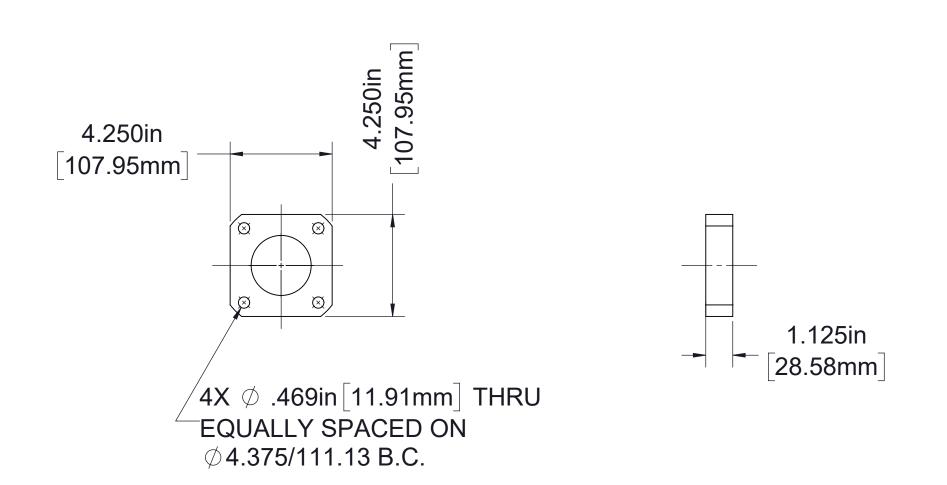


PART NO.	DESCRIPTION	INCLUDES O-RING
61473-A	2.5 NPT TAPPED FLANGE	W-3756-4



PART NO.	DESCRIPTION	INCLUDES O-RING
63205-A	2-1/2 IN. BSP TAPPED FLANGE	W3756-4

NOTES:
1. THIS ANODE MAY BE MOUNTED ON ANY FITTING WITH A 2-1/2 IN. (4) BOLT FLANGE
2. ANODE ASSEMBLY INCLUDES GASKET AND MOUNTING HARDWARE (USE O-RING W3756-4 AS GASKET)

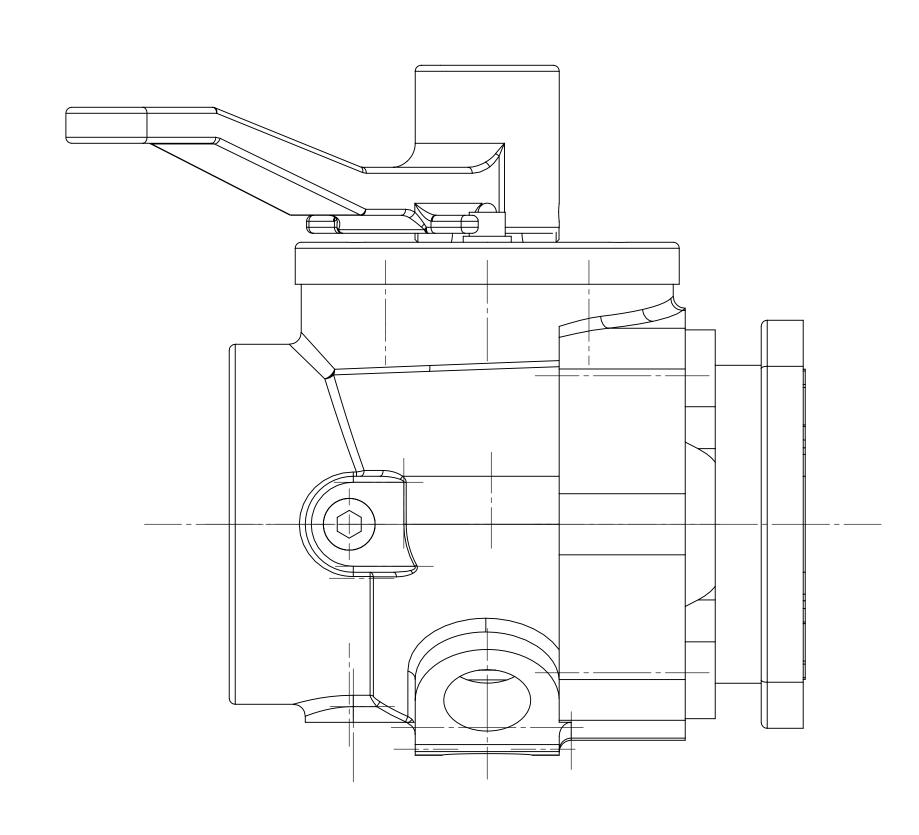


USE (4) 7/16-14 HEX HEAD SCREWS

PART NO.	DESCRIPTION	INCLUDES GASKET
63049-A	SPACER	51218

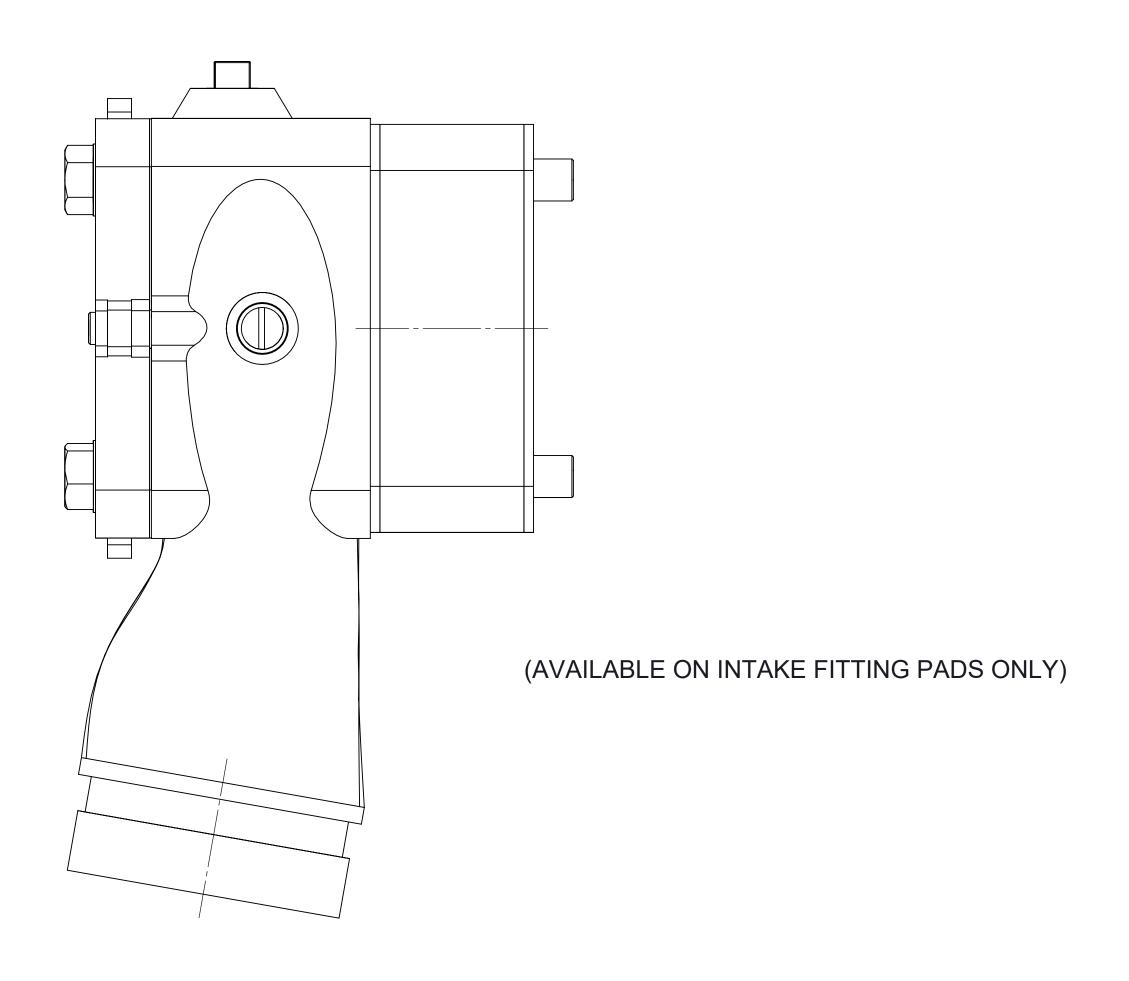
- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 1 - FITTINGS FOR 2-1/2 IN. 4-BOLT MACHINED PADS



### MOUNTING A 2-1/2 IN. DISCHARGE VALVE

REFER TO 2-1/2 IN. DISCHARGE VALVE DIMENSIONAL DRAWING FOR VALVE PART NUMBERS

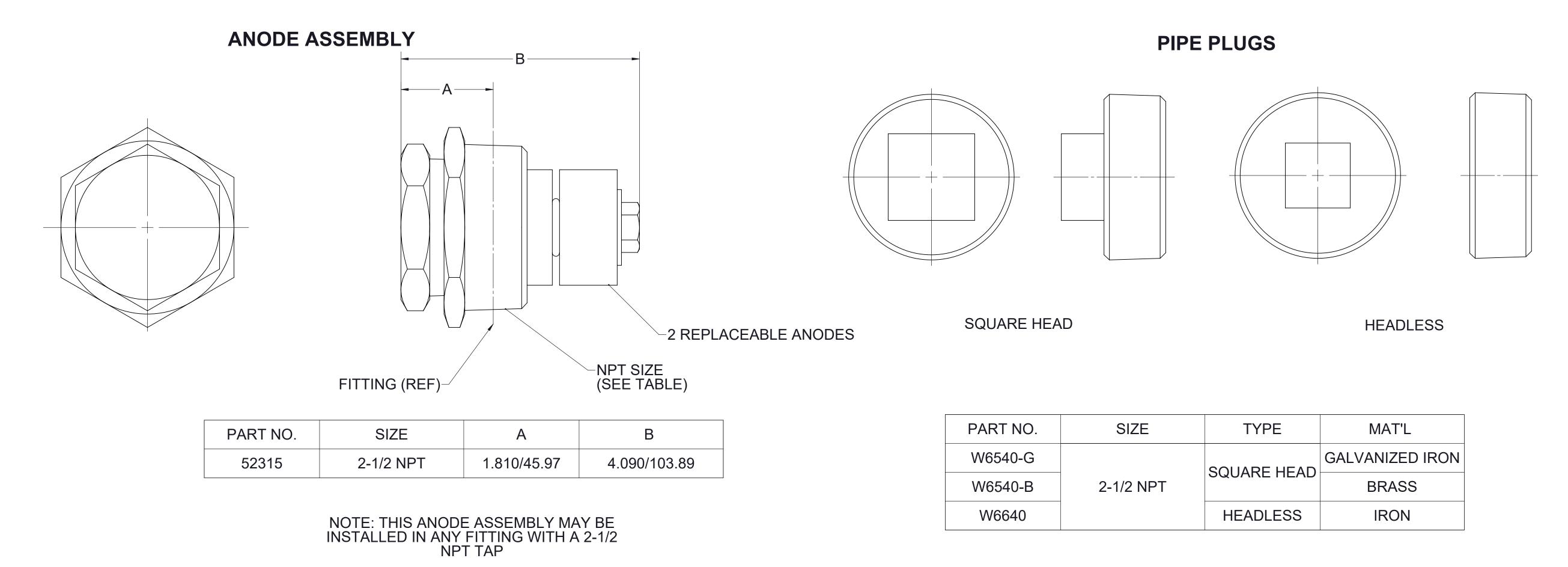


### MOUNTING AN INTAKE RELIEF VALVE

REFER TO DIMENSIONAL DRAWING DPL82084-5

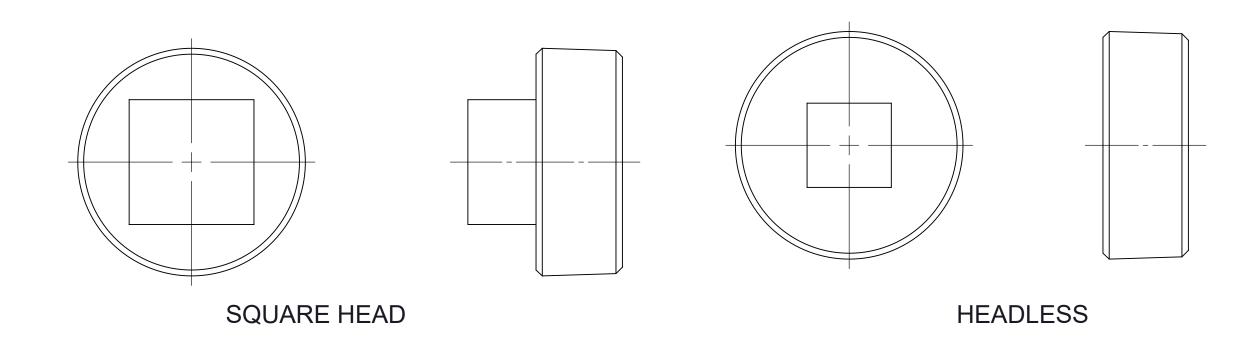
> PART NO. 82256-4

#### **TYPE 2 - FITTINGS FOR 2-1/2 NPT OPENINGS**



TYPE 3 - FITTINGS FOR 2 IN. NPT OPENINGS

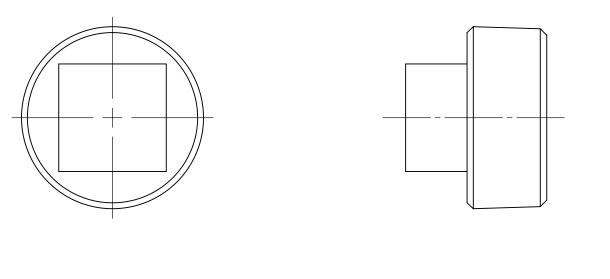
### PIPE PLUGS



PART NO.	SIZE	TYPE	MAT'L
W6532		SQUARE HEAD	IRON
W6532-B	2 NDT		BRA
W6632	2 NPT	HEADI ECC	IRON
W6632-B		HEADLESS	BRASS

#### TYPE 4 - FITTINGS FOR 1-1/2 IN. NPT OPENINGS

#### PIPE PLUGS

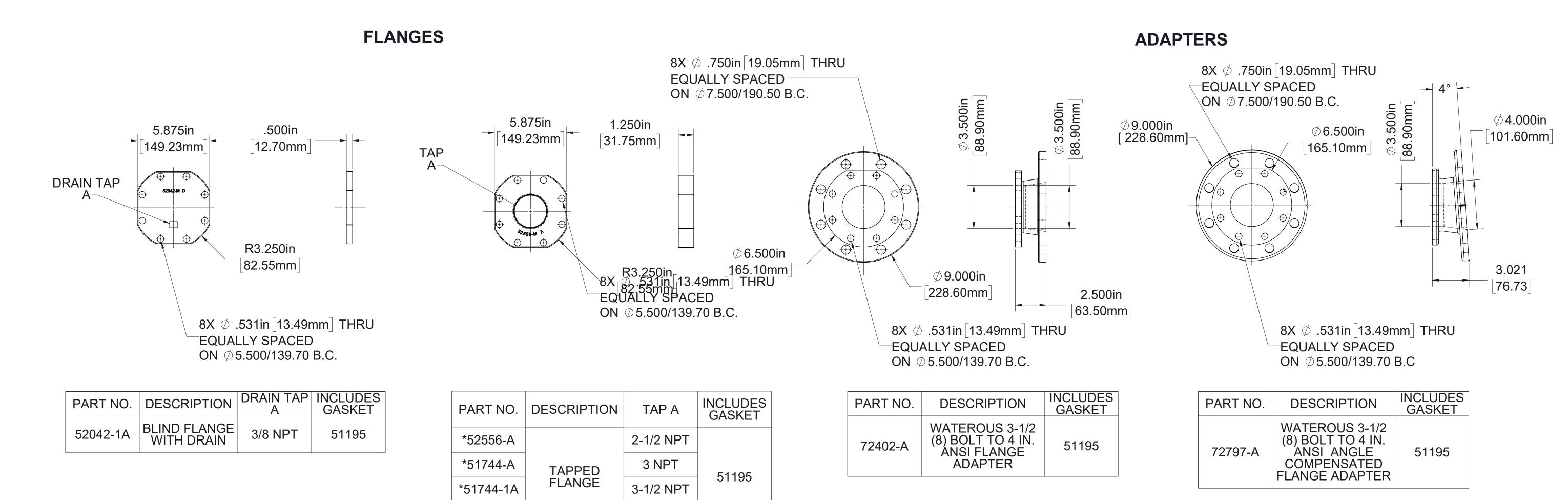


SQUARE HEAD

PART NO.	SIZE	TYPE	MAT'L
W6524	1-1/2 NPT	SQUARE HEAD	IRON
W6524-B	1-1/2 INP I		BRASS

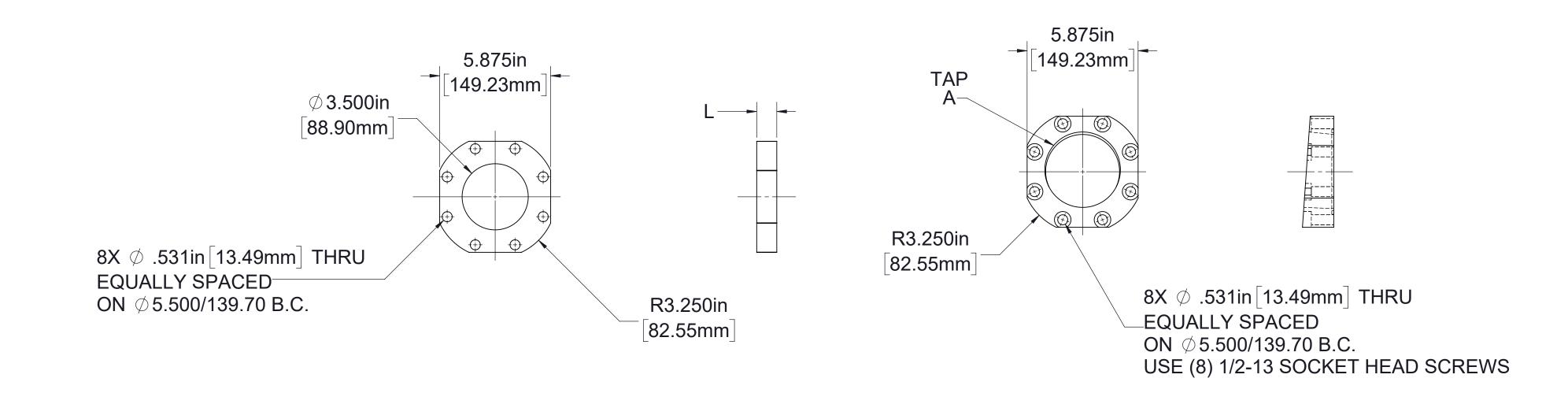
NOTE: ALL DIMENSIONS SHOWN AS INCH/MILLIMETER

#### **TYPE 7 - FITTINGS FOR 3-1/2 IN. DISCHARGE VALVES**



\* AVAILABLE IN IRON ONLY

51744-4C



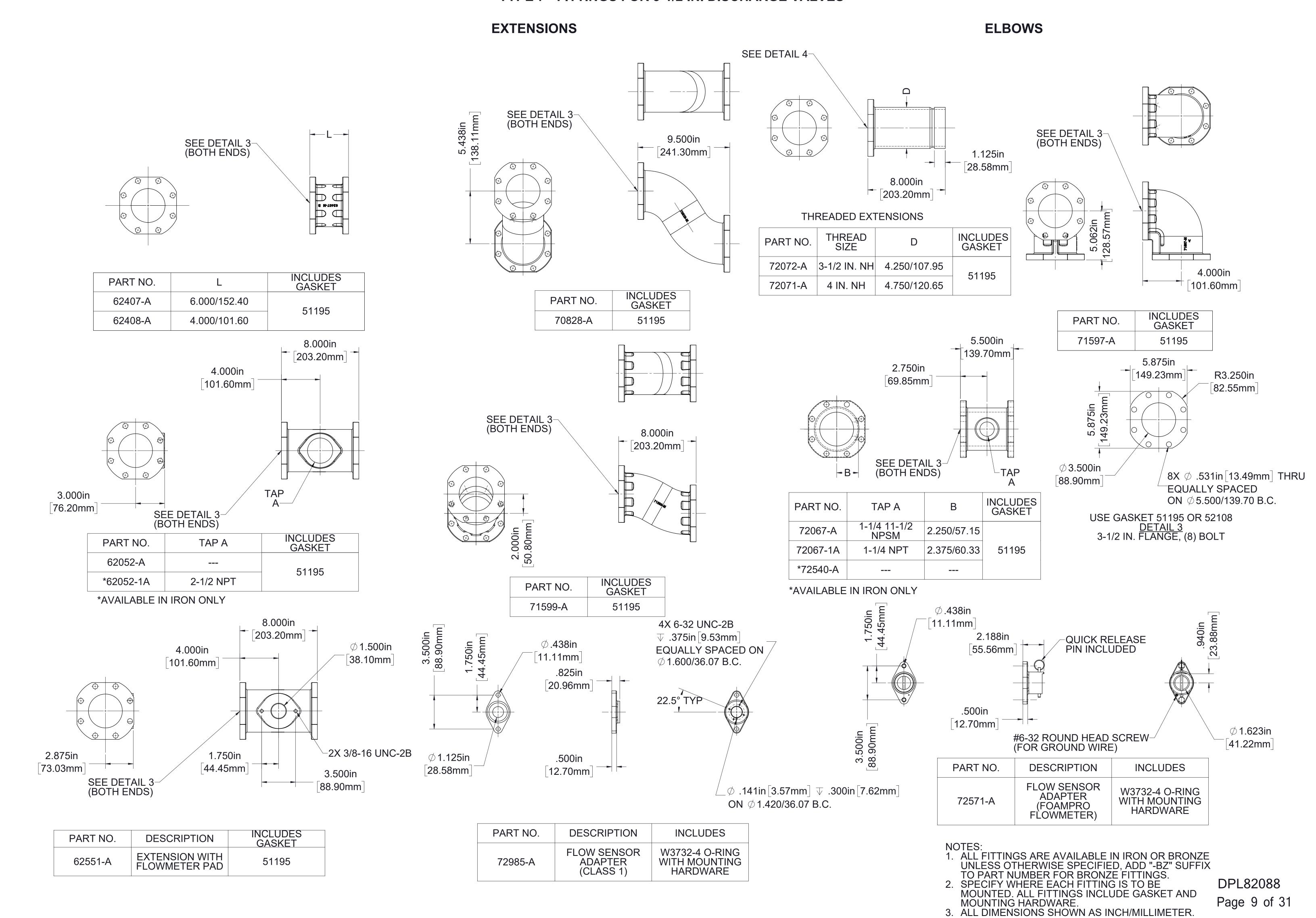
	PART NO.	DESCRIPTION	INCLUDES GASKET	L
	51754-A	SPACER	51195	1.062/26.97
-	52703-A		51195	.750/19.05

PART NO.	DESCRIPTION	TAP A	INCLUDES GASKET
72098-A	ANCLE	3-1/2 NPT	
72257-A	ANGLE COMPENSATED TAPPED FLANGE	3 NPT	52108
72844-A		3 IN. BSP	

4 NPT

- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **TYPE 7 - FITTINGS FOR 3-1/2 IN. DISCHARGE VALVES**

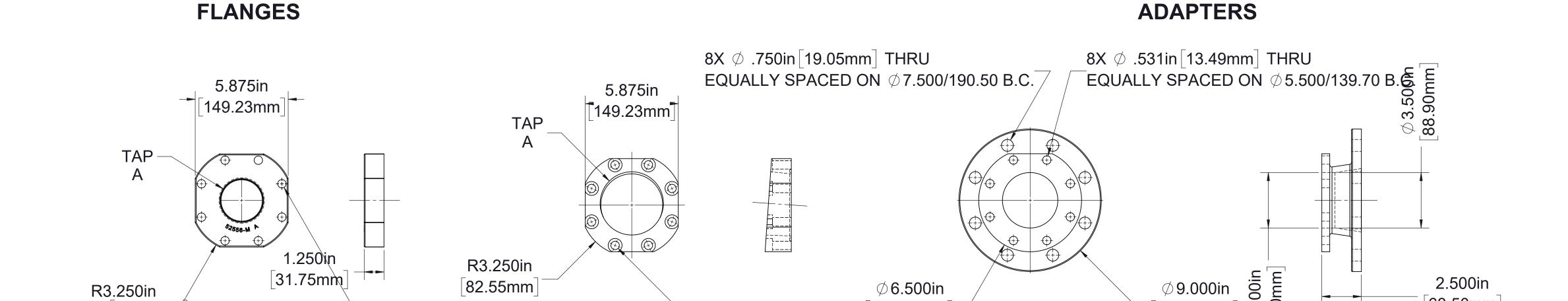


### TYPE 8 - FITTINGS FOR 3, 3-1/2, OR 4 IN. 8-BOLT MACHINED PADS

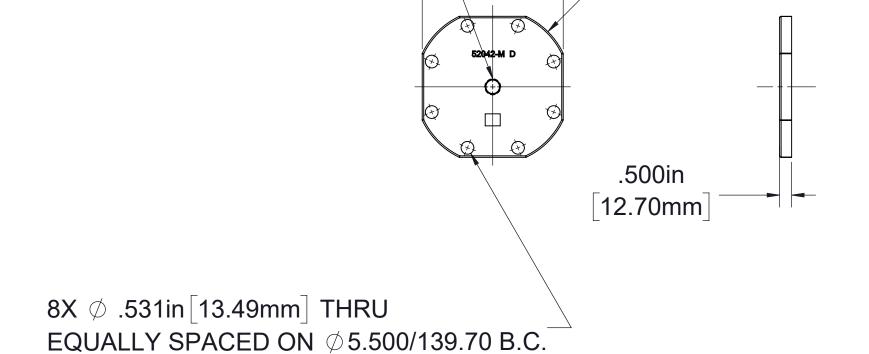
8X ∅ .531in [13.49mm] THRU

EQUALLY SPACED ON Ø 5.500/139.70 B.C.

USE (8) 1/2-13 SOCKET HEAD SCREWS



[165.10mm]



3/8 NPT Tapped Hole-

[149.23mm]

R3.250in

[82.55mm]

PART NO. DESCRIPTION DRAIN TAP GASKET BLIND FLANGE WITH DRAIN 52042-1A 3/8 NPT 51195

PART NO.	DESCRIPTION	TAP A	INCLUDES GASKET
*52556-A		2-1/2 NPT	
*51744-A	TAPPED FLANGE	3 NPT	F110F
*51744-1A		3-1/2 NPT	51195
51744-4C		4 NPT	

EQUALLY SPACED ON Ø 5.500/139.70 B.C.

PART NO.	DESCRIPTION	TAP A	INCLUDES GASKET
72098-A	ANGLE COMPENSATED TAPPED	3-1/2 NPT	
72257-A		3 NPT	52108
72844-A	FLANGE	3 IN. BSP	

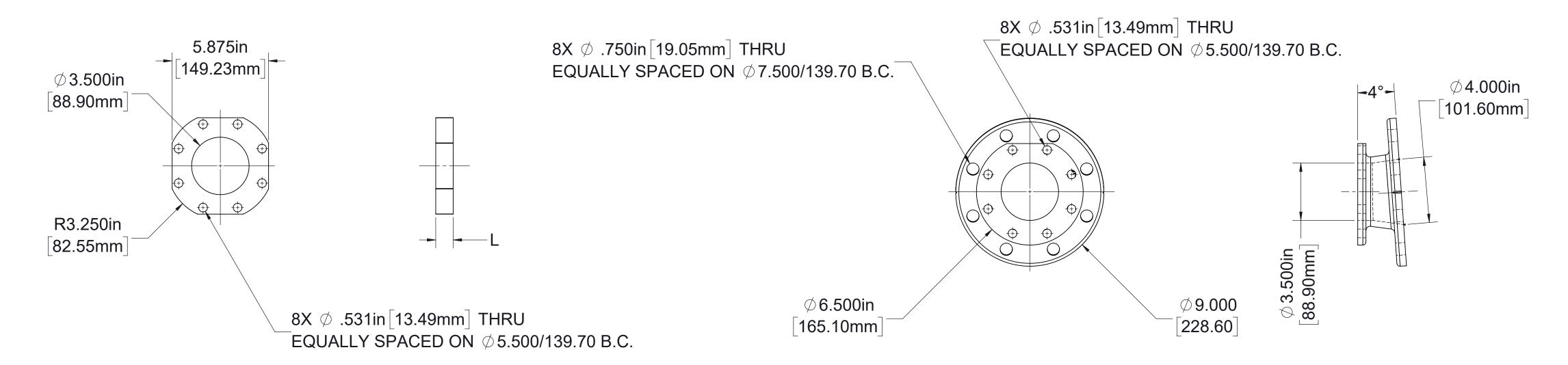
PART NO.	DESCRIPTION	INCLUDES GASKET
72402-A	WATEROUS 3-1/2 (8) BOLT TO 4 IN. ANSI FLANGE ADAPTER	51195

[228.60mm]

\*AVAILABLE IN IRON ONLY

R3.250in

8X Ø .53 18/2 [5/5 m449 mm] THRU



PART NO.	DESCRIPTION	L	INCLUDES GASKET
51754-A	SPACER	1.062/26.97	51195
52703-A	SPACER	.750/19.05	51195

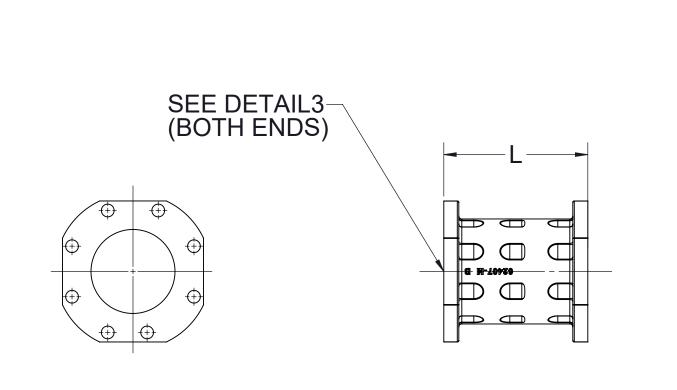
PART NO.	DESCRIPTION	INCLUDES GASKET
72797-A	WATEROUS 3-1/2 (8) BOLT TO 4 IN. ANSI ANGLE COMPENSATED FLANGE ADAPTER	51195

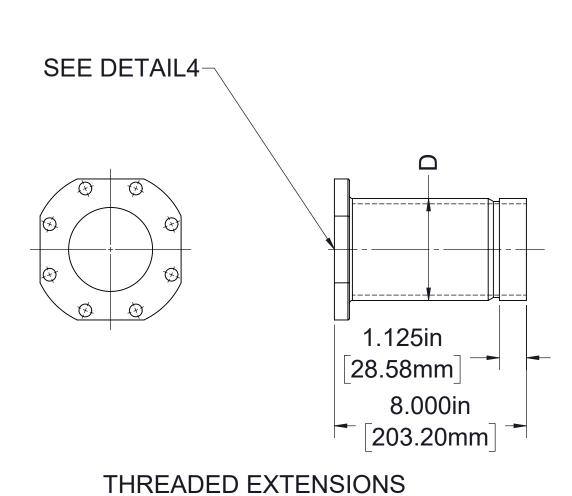
- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

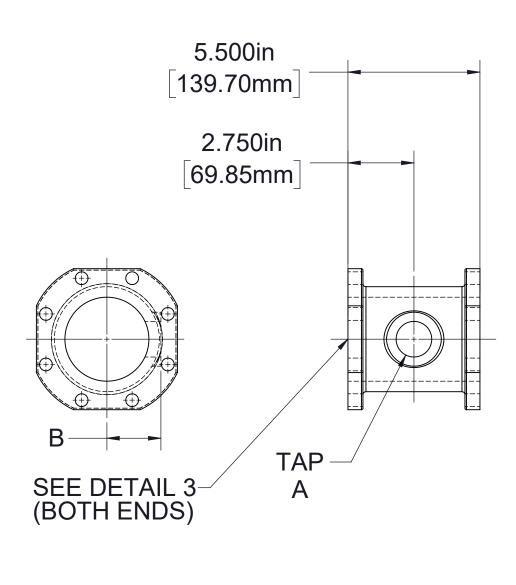
[63.50mm]

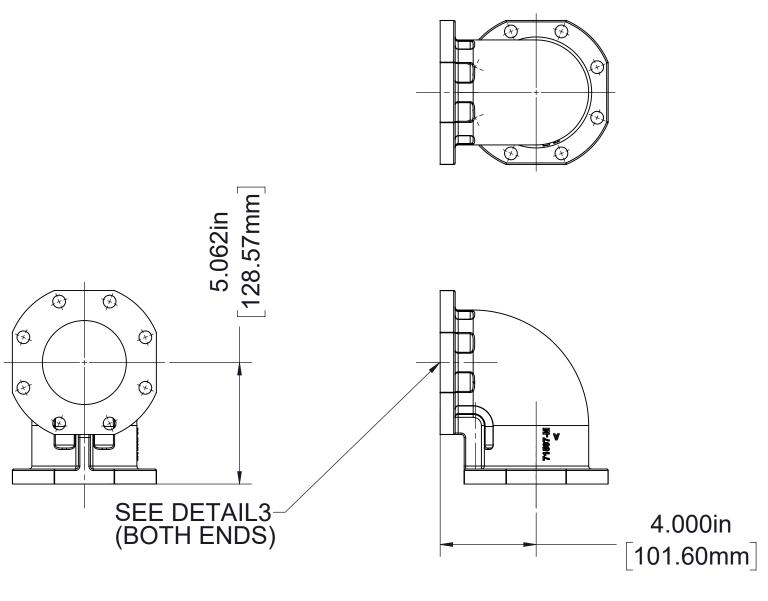
### TYPE 8 - FITTINGS FOR 3, 3-1/2, OR 4 IN. 8-BOLT MACHINED PADS

**EXTENSIONS ELBOWS** 







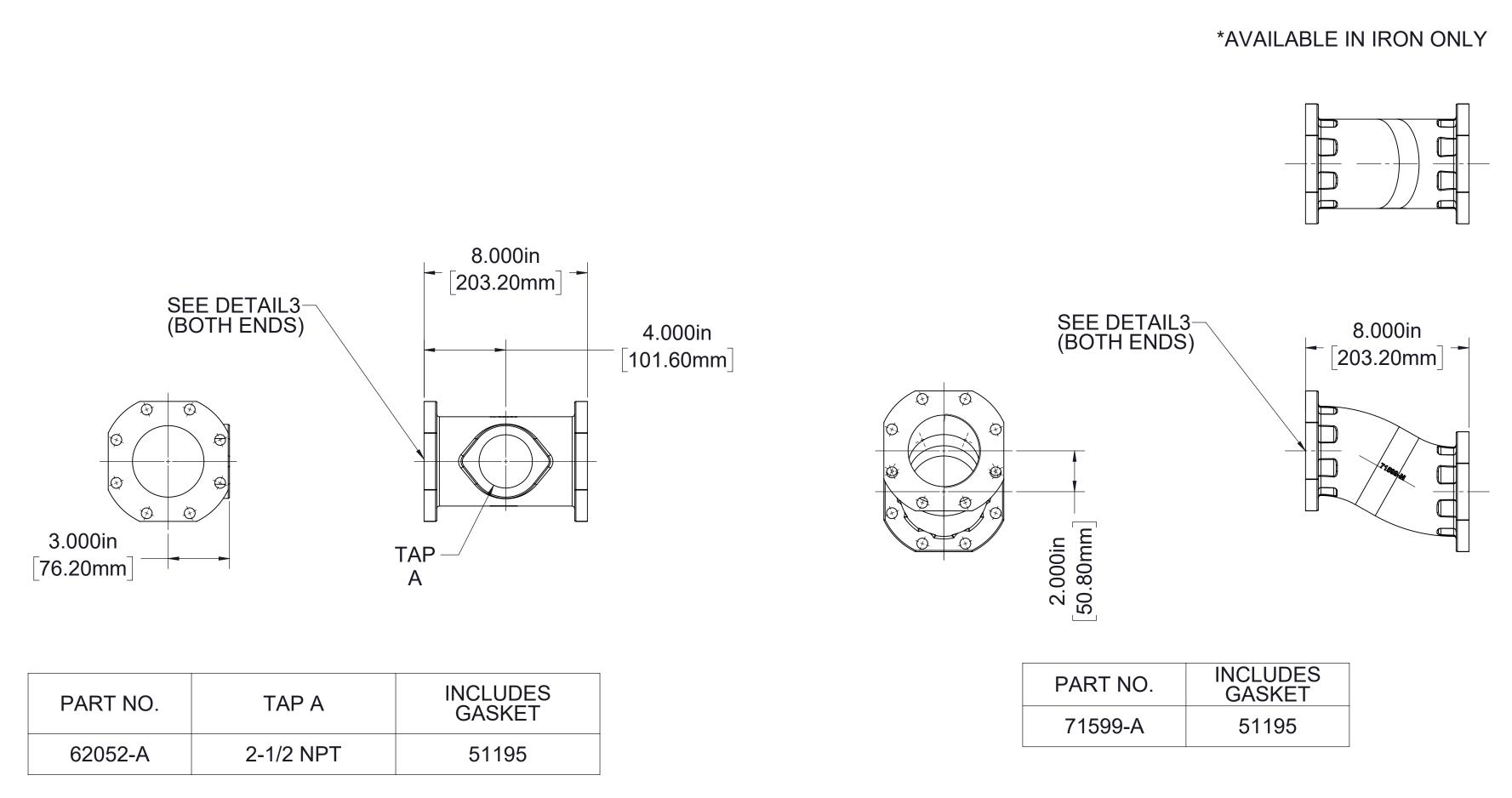


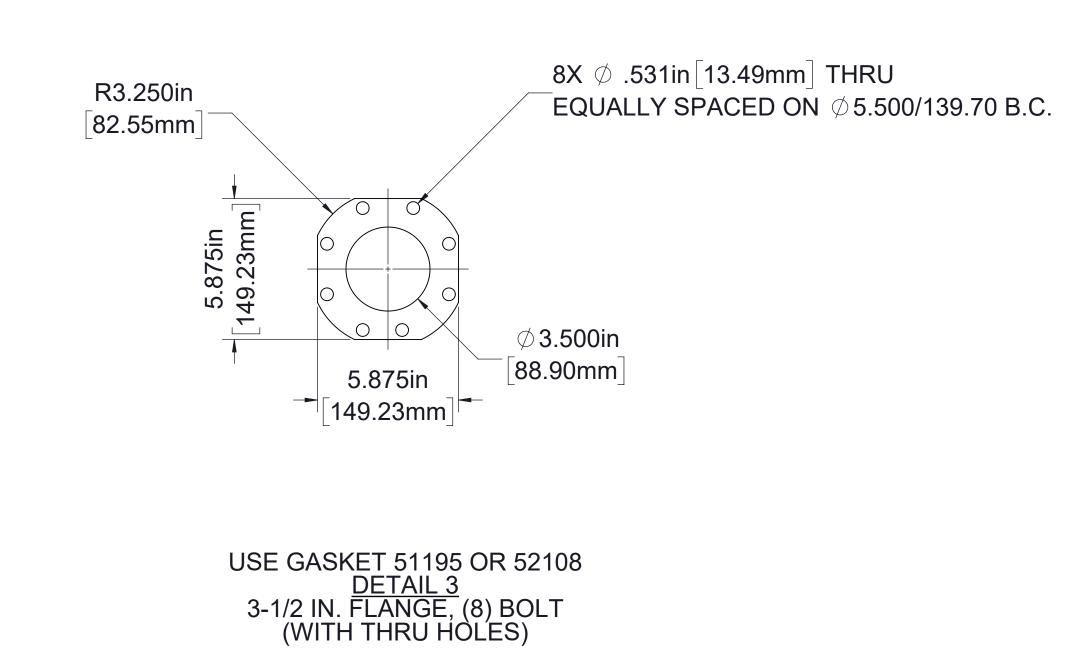
PART NO.	L	INCLUDES GASKET
62407-A	6.000/152.40	51195
62408-A	4.000/101.60	51195

PART NO.	THREAD SIZE	D	INCLUDES GASKET
72072-A	3-1/2 IN. NH	4.250/107.95	51195
72071-A	4 IN. NH	4.750/120.65	31195

PART NO.	TAP A	В	INCLUDES GASKET
*72540-A			51195

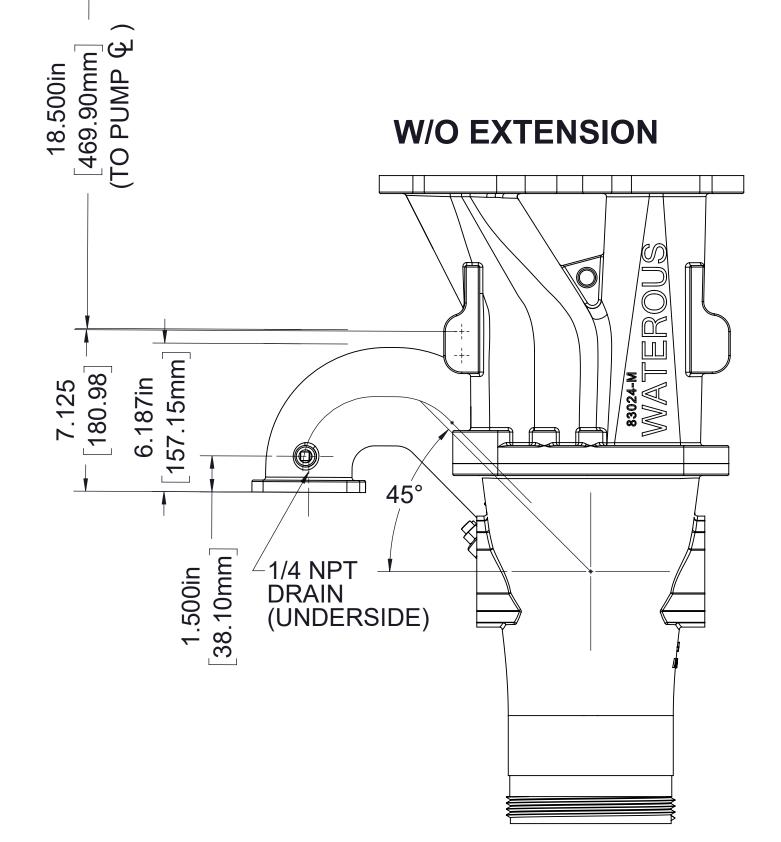
PART NO.	INCLUDES GASKET
71597-A	51195

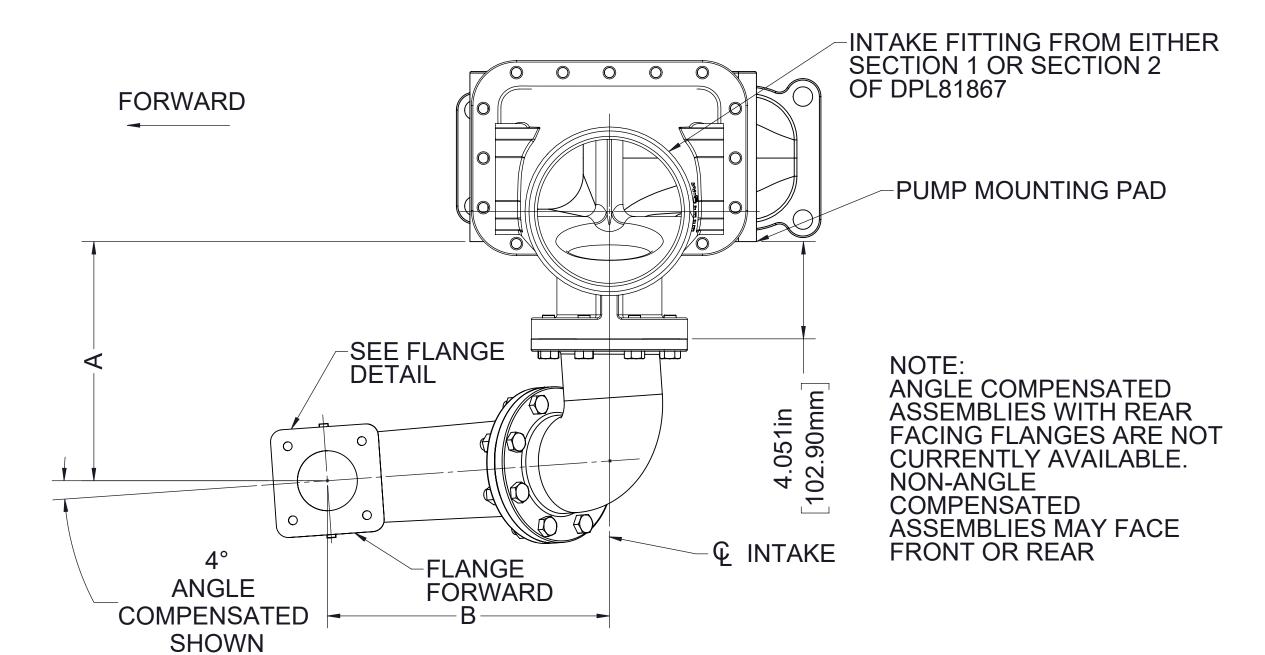




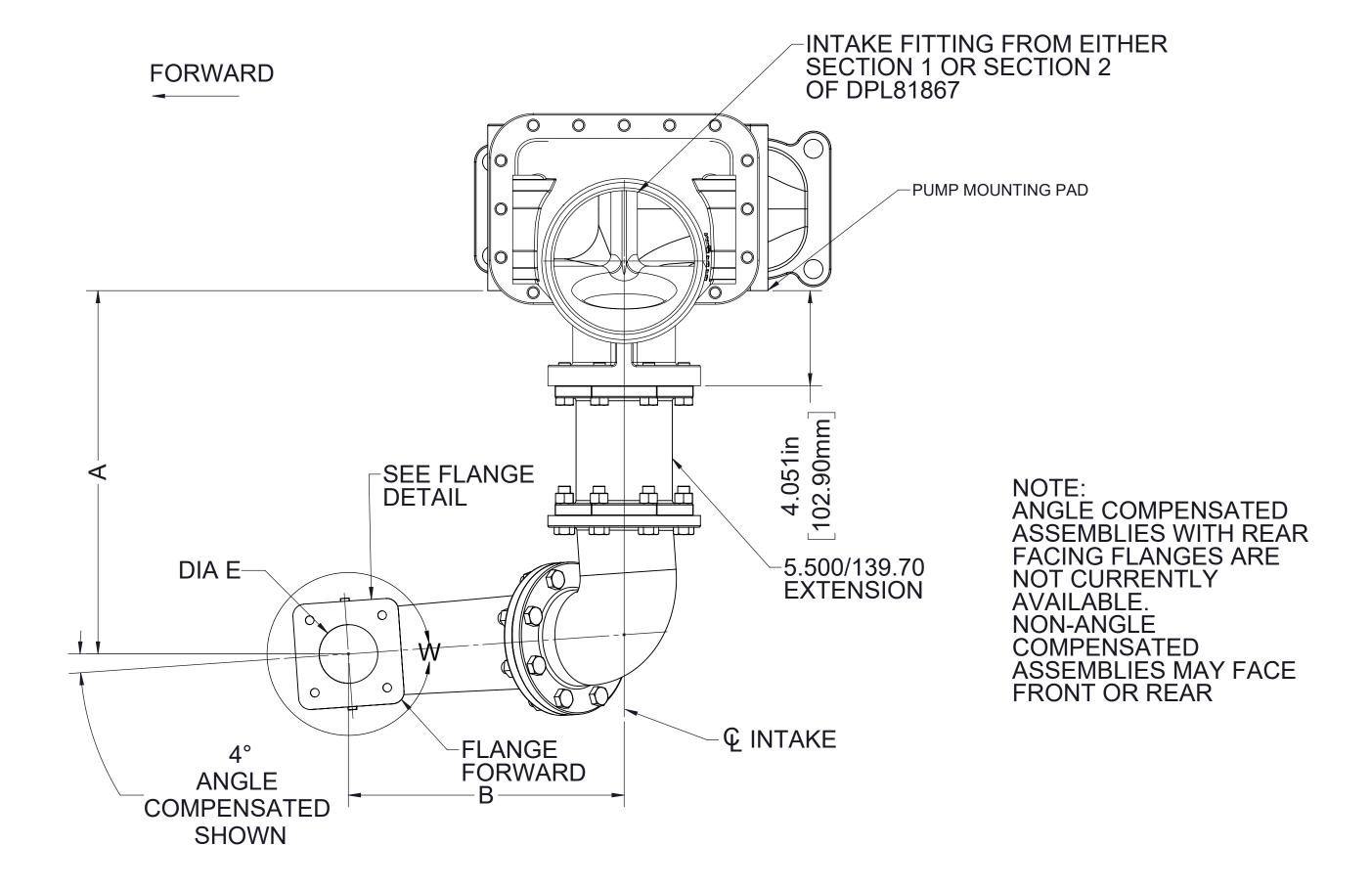
NOTES:
1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

# TYPE 8 - FITTINGS FOR 3, 3-1/2, OR 4 IN. 8-BOLT MACHINED PADS SINGLE INTAKE MANIFOLD ASSEMBLY 81990 (AVAILABLE ON INTAKE FITTINGS ONLY)





#### WITH EXTENSION



NOTES:

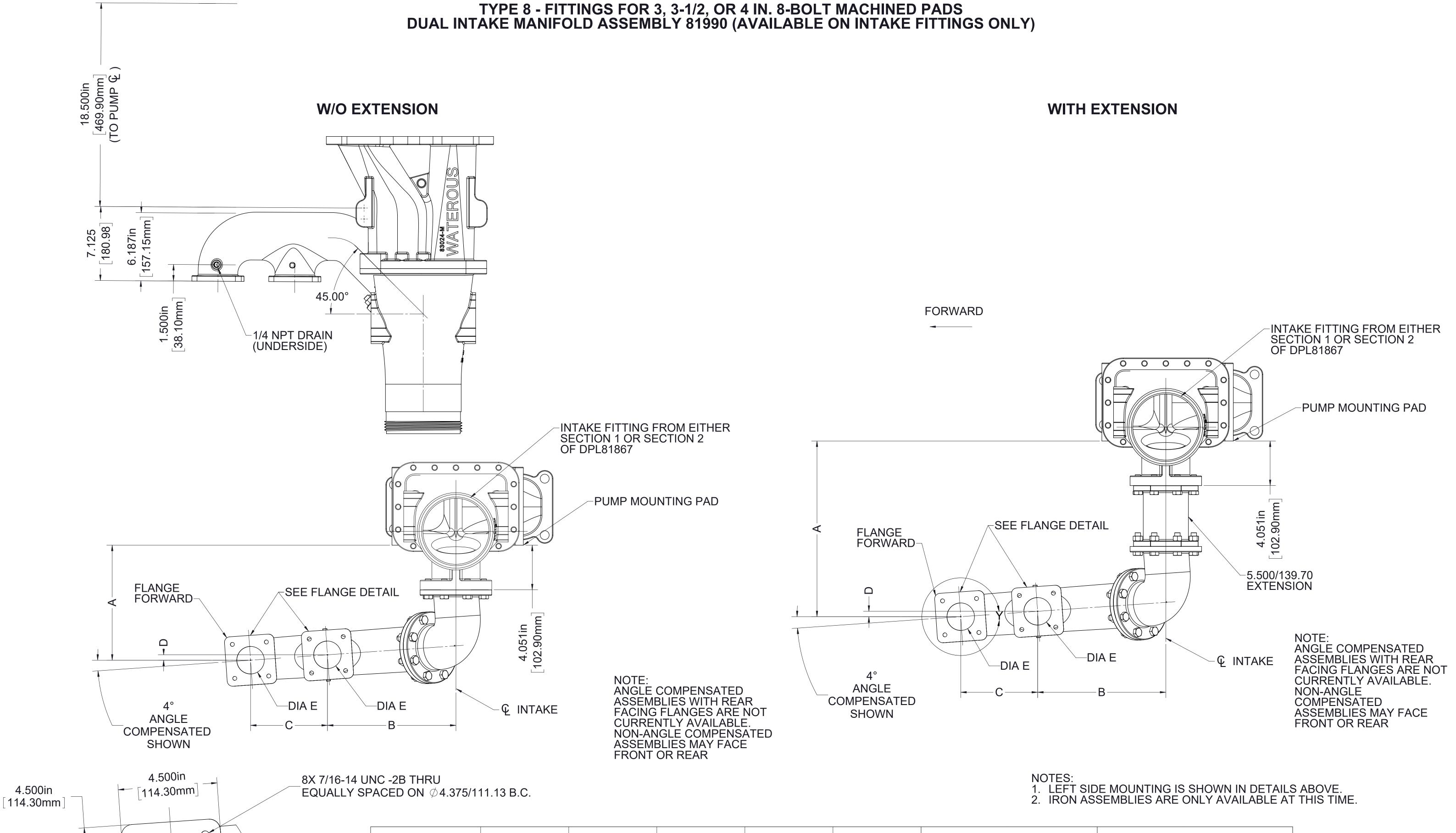
1. LEFT SIDE MOUNTING IS SHOWN IN

DETAILS ABOVE.

2. IRON ASSEMBLIES ARE ONLY AVAILABLE AT THIS TIME.

4.500in [114.30mm]	4.500in [114.30mm] 4X 7/16-14 UNC -2B THRU EQUALLY SPACED ON Ø4.375/111.13 B.C.
	DIA E

4° ANGLE	MOUNTING		D DIA E		W/O EXTENSION		WITH EXTENSION			
COMPENSATION	MOUNTING	В	DIA E	ASSEMBLY NO.	А	ASSEMBLY NO.	Α			
	LEET	LEET				2.500/63.50	81990-1A		81990-2A	
YES	LEFT	11.740/298.20	3.000/76.20	81990-1B	9.946/252.63	81990-2B	15.446/392.33			
YES	RIGHT		2.500/63.50	81990-1C		81990-2C				
			3.000/76.20	81990-1D		81990-2D				
NO	LEFT OR RIGHT	12.220/310.39	2.500/63.50	81990-1E	9.106/231.29	81990-2E	14.606/370.99			
NO			3.000/76.20	81990-1F		81990-2F				



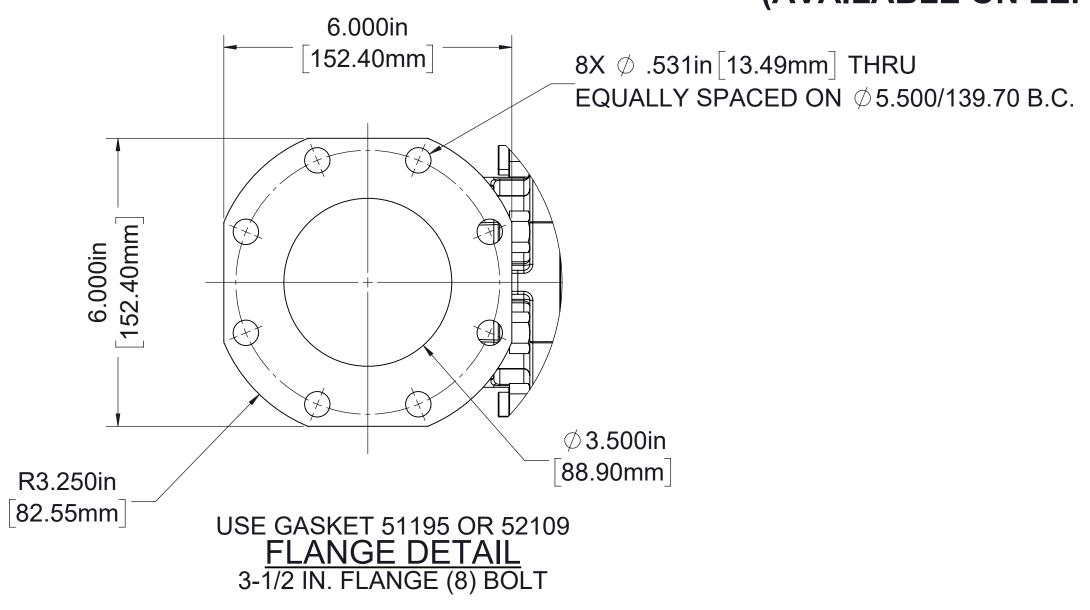
4.500in

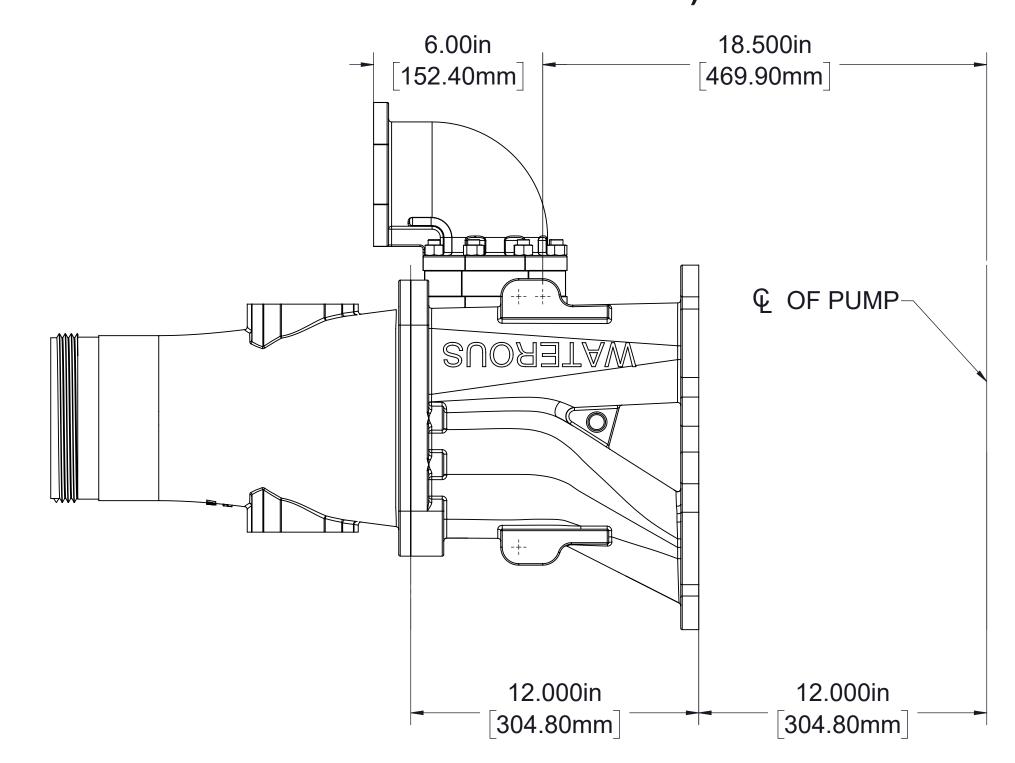
 $\bigcirc$ 

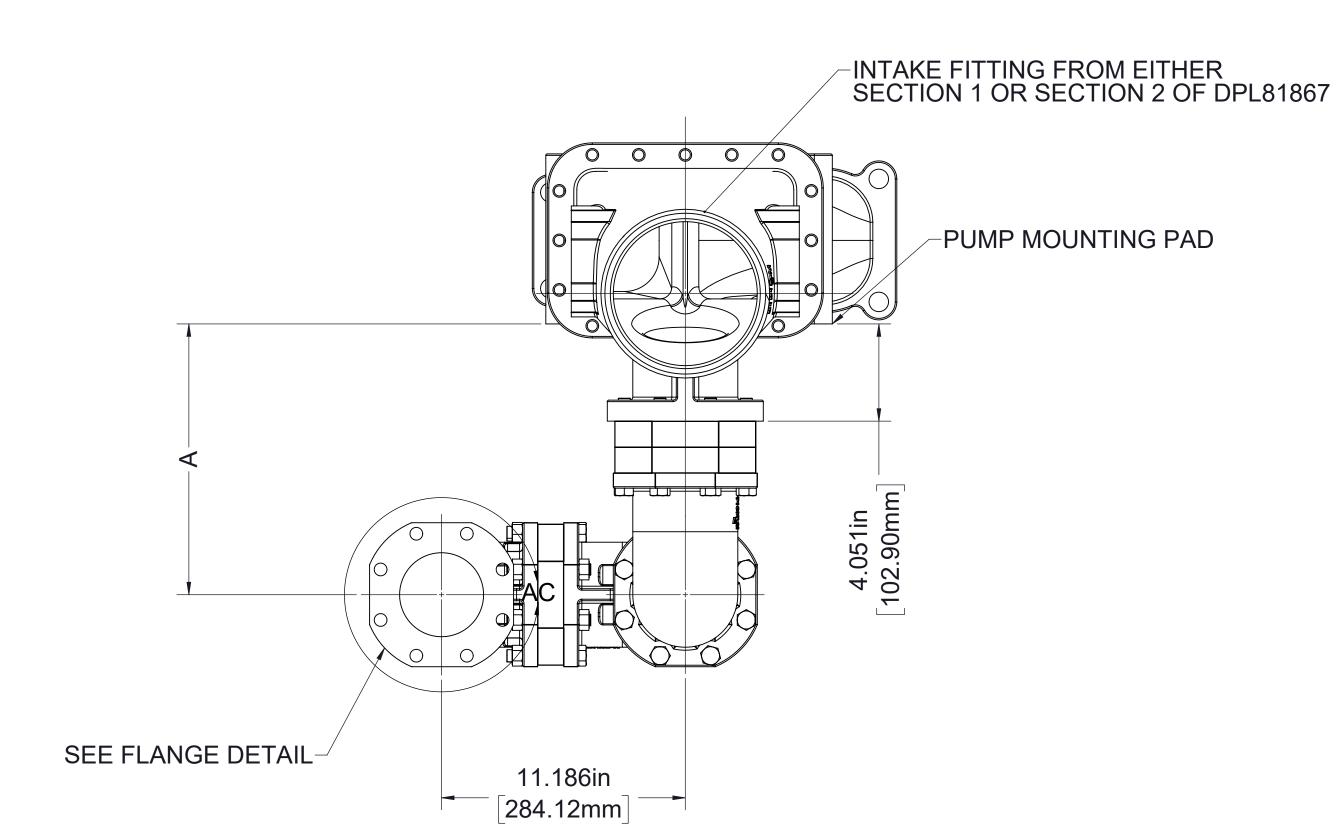
MANIFOLD FLANGE DETAIL

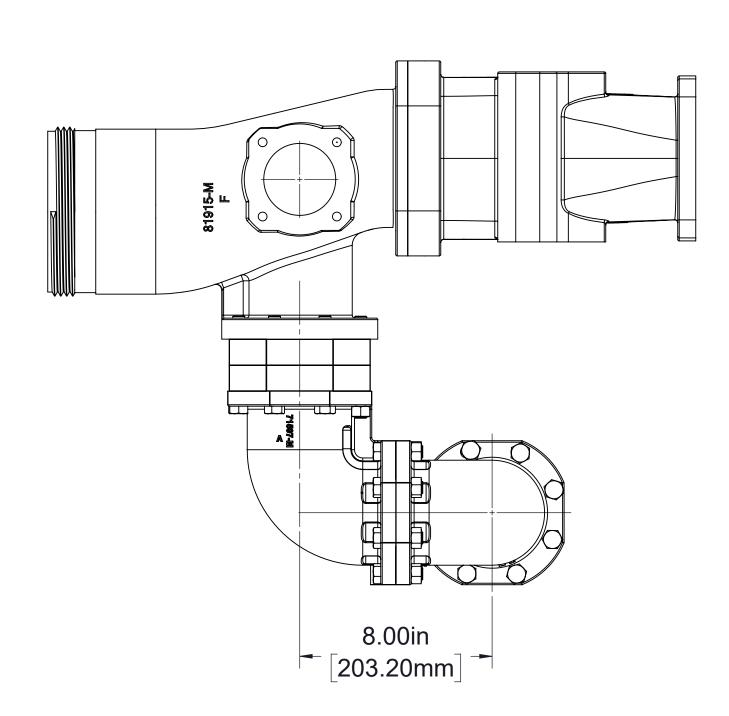
4° ANGLE	MOUNTING	В			W/O EXT	W/O EXTENSION		WITH EXTENSION	
COMPENSATION	MOUNTING	В	С	D	DIA E	ASSEMBLY NO.	А	ASSEMBLY NO.	Α
	LEET		6.980/177.29	5.980/177.29 .490/12.45	2.500/63.50	81990-1G	10.436/265.07	81990-2G	15.936/404.77
YES	LEFT				3.000/76.20	81990-1H		81990-2H	
	RIGHT	11.740/298.20 6.			2.500/63.50	81990-1J		81990-2J	
					3.000/76.20	81990-1K		81990-2K	
NO LEFT OR RIGHT	10.000/040.00	7 000/477 00	0.000	2.500/63.50	81990-1L	0.400/004.00	81990-2L	4.4.000/070.00	
		12.220/310.39	/310.39 7.000/177.80	0.000	3.000/76.20	81990-1M	9.106/231.29	81990-2M	14.606/370.99

# TYPE 8 - FITTINGS FOR 3, 3-1/2, OR 4 IN. 8-BOLT MACHINED PADS AUXILIARY INTAKE W/ SINGLE 3-1/2 IN. OPENING ASSEMBLY 82605 (AVAILABLE ON LEFT OR RIGHT INTAKE FITTING W/ OPENING FLANGE TO FRONT ONLY)



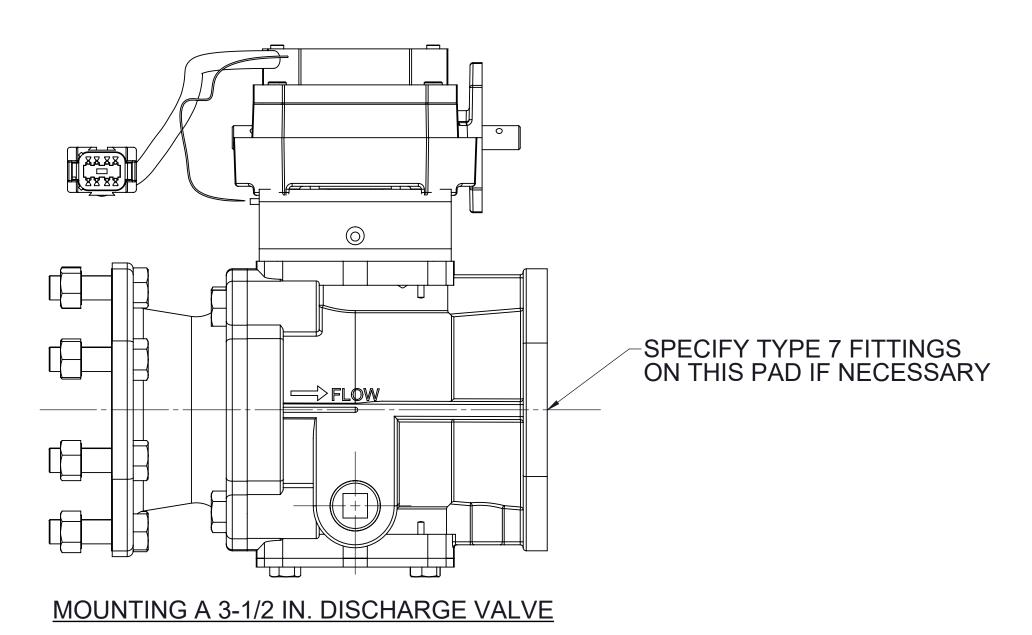






NOTES:
1. LEFT SIDE MOUNTING IS SHOWN.
2. IRON ASSEMBLY ONLY AVAILABLE AT THIS TIME.
3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER. ASSEMBLY NO. 11.237/285.42 82605-1A 82605-1B 13.113/333.70

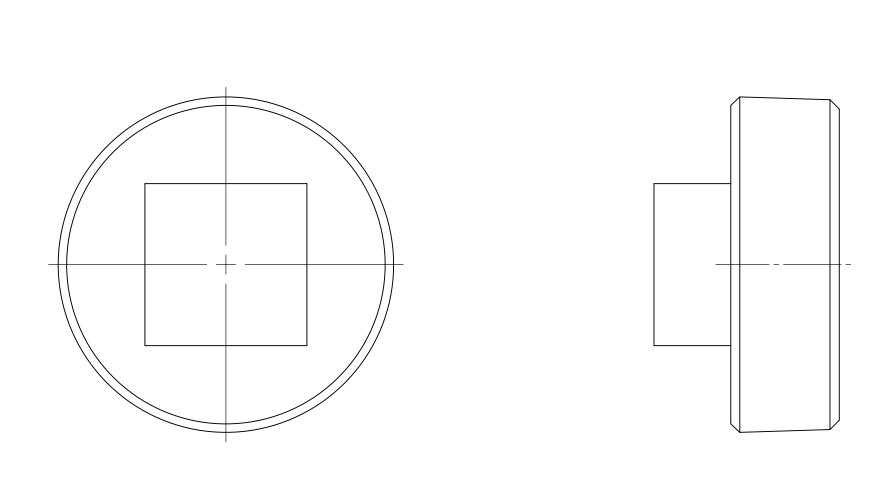
### TYPE 8 - FITTINGS FOR 3, 3-1/2, OR 4 IN. 8-BOLT MACHINED PADS



REFER TO 3-1/2 IN. DISCHARGE VALVE DIMENSIONAL DRAWINGS FOR VALVE PART NUMBERS

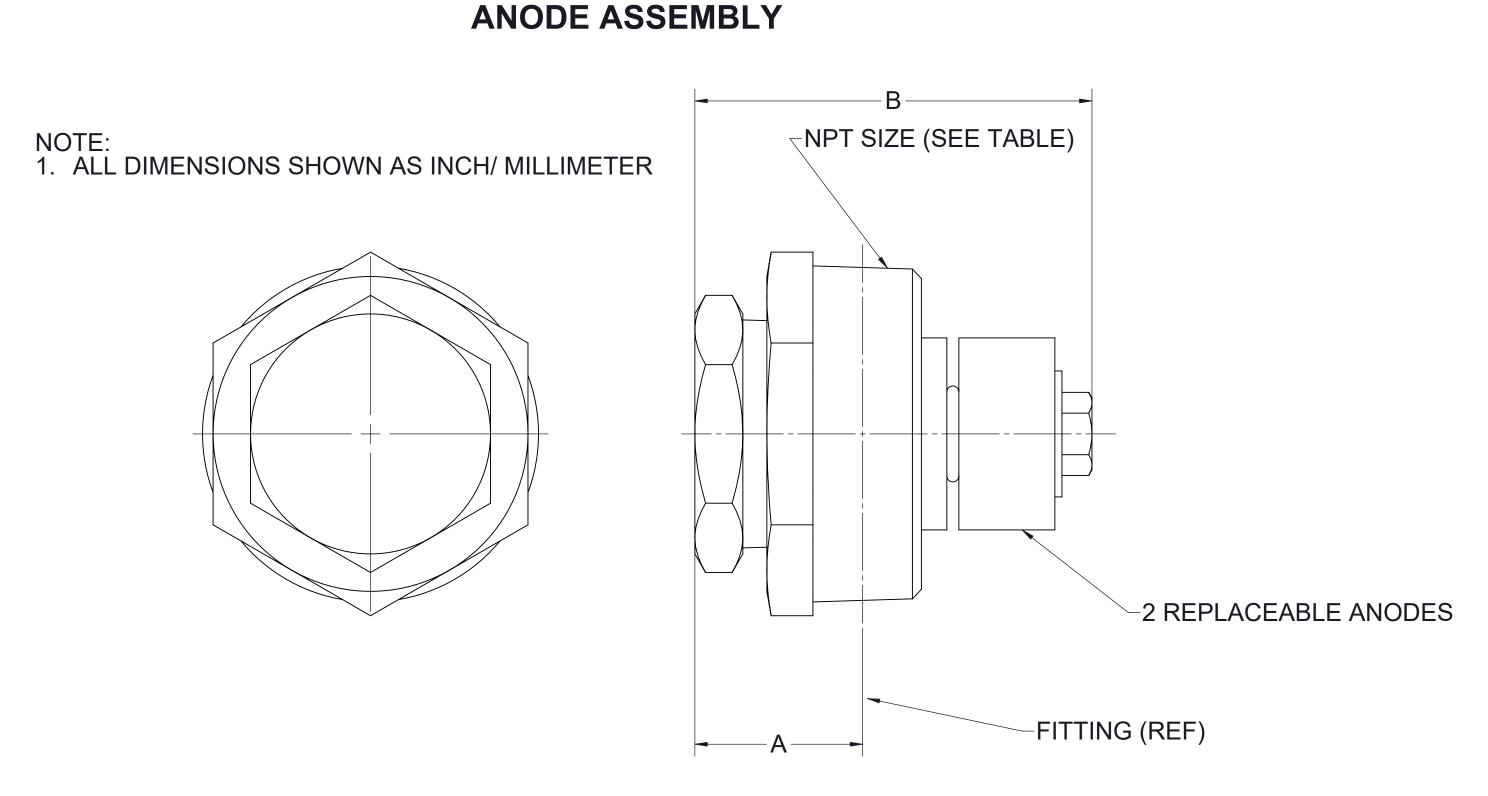
#### **TYPE 9 - FITTINGS FOR 3 IN. NPT OPENINGS**

#### PIPE PLUGS



SQUARE HEAD

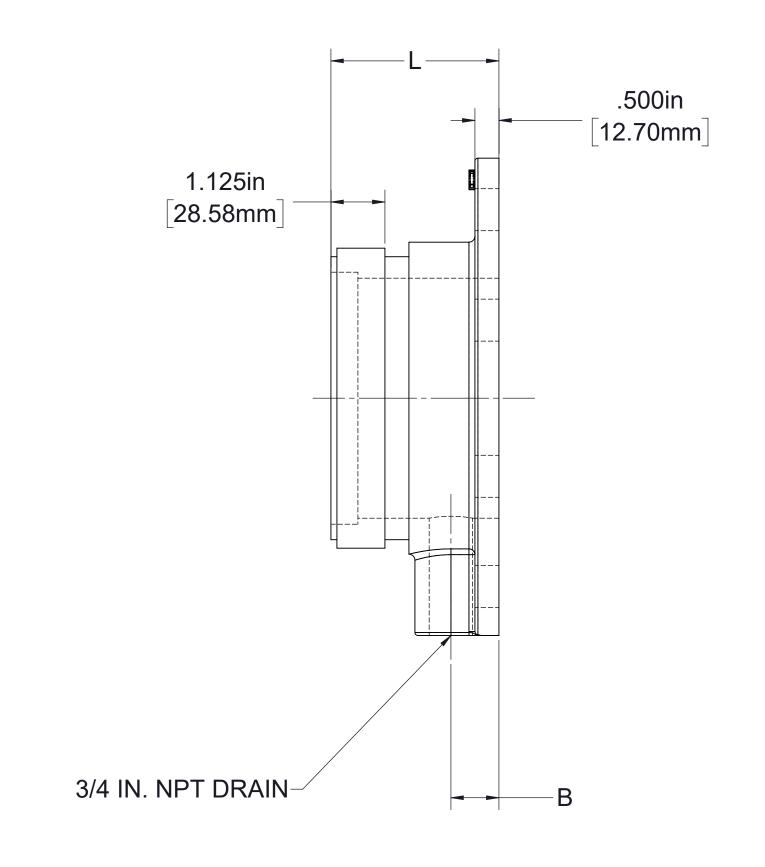
PART NO.	TYPE	SIZE	MAT'L
W6548	SQUARE HEAD	3 NPT	IRON
W6548-B	SQUARE READ	SINPI	BRASS

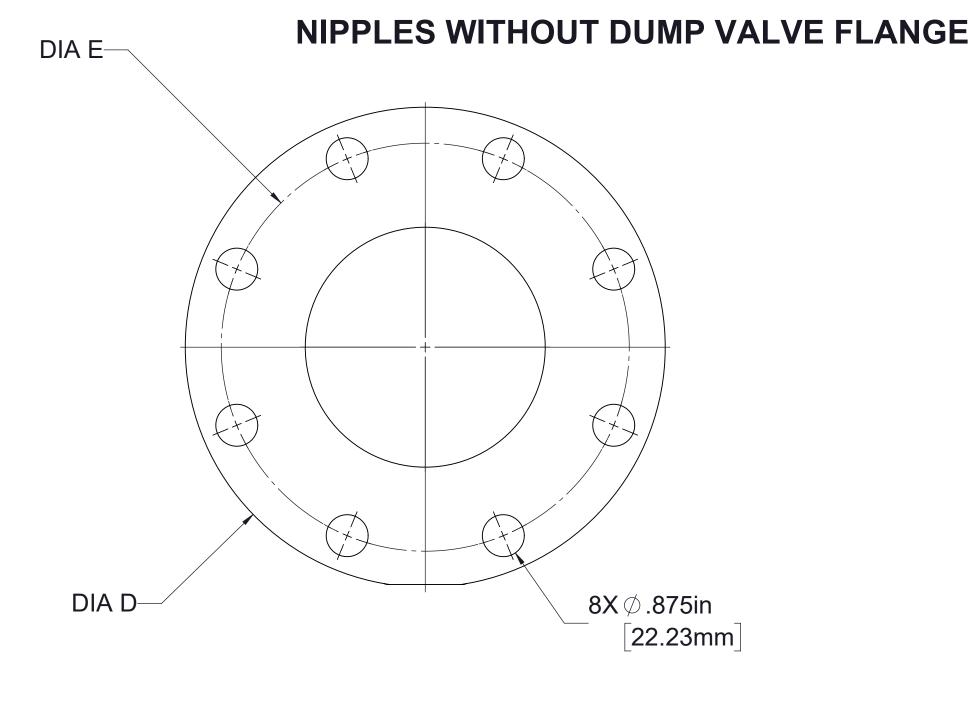


PART NO.	SIZE	Α	В
52315-1	3 NPT	1.750/44.45	4.090/103.89

- NOTE: 1. THIS ANODE ASSEMBLY MAY BE INSTALLED IN ANY FITTING WITH A 3 NPT TAP 2. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 11 - FITTINGS FOR 5 IN. FLANGED ENDS ON INTAKE FITTINGS



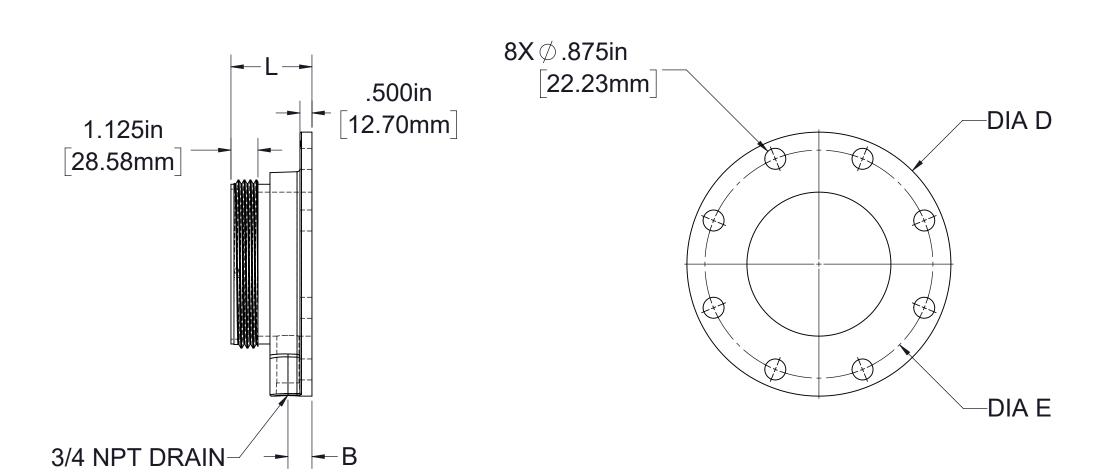


1	NIPPLE PART NO	).						
	MOUNTED ON BUTTERFLY VALVE					FLANGE		INCLUDES
	IO ING LENGTH		THREAD SIZE	В	L			GASKET
	ING LENGIA	YES						
OTHER THAN 6.750	6.750	. =0				DIA D	DIA E	
72454-A	N/A	N/A	5.0 IN. NH	1.000/25.40	3.500/88.90	10.000/254.00	8.500/215.90	51720

(USE WITH FLANGED SECTION 1 AND SECTION 2 FITTINGS ON DPL81867)

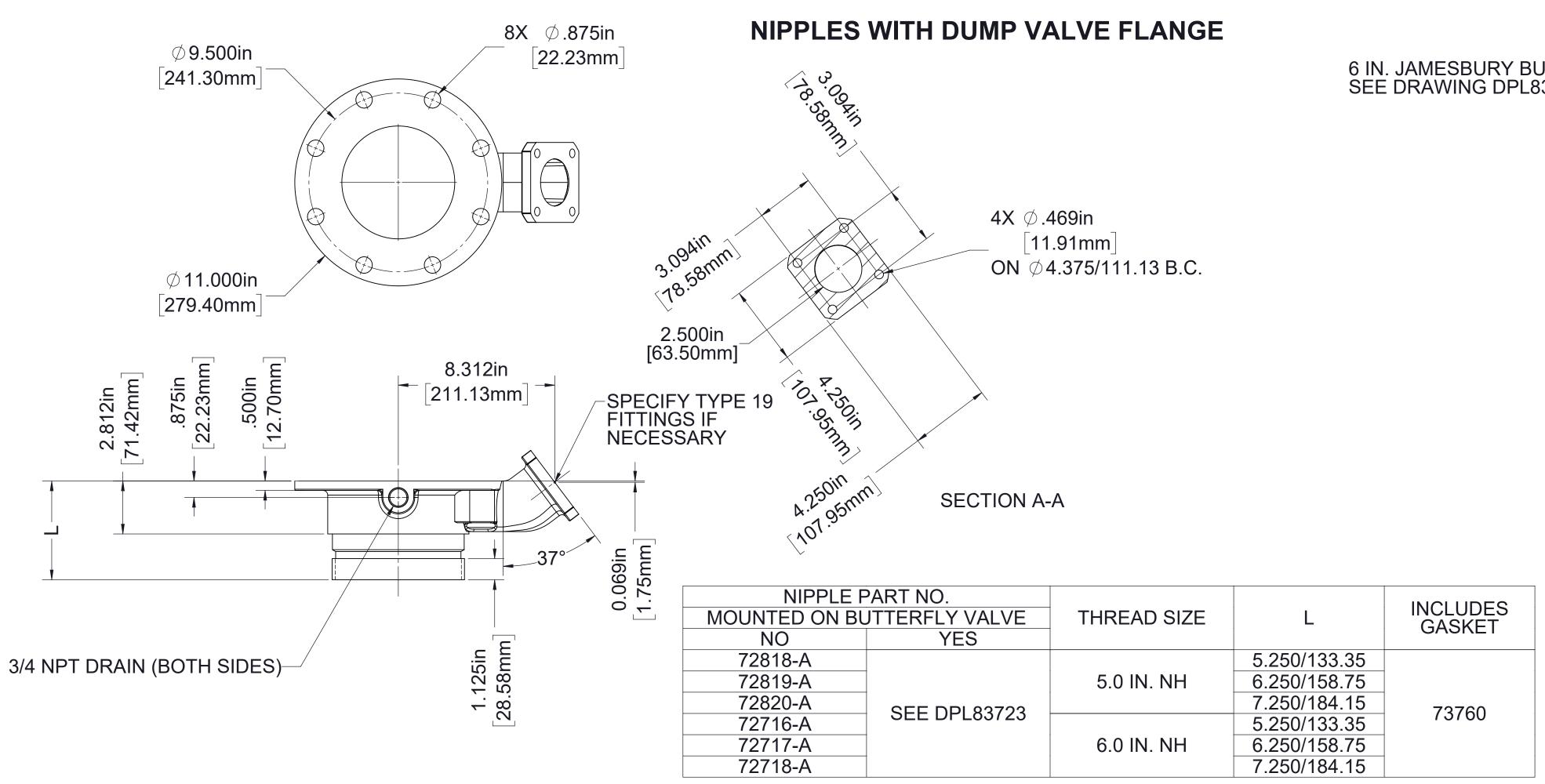
#### TYPE 12 - FITTINGS FOR 6 IN. FLANGED ENDS ON INTAKE FITTINGS

#### NIPPLES WITHOUT DUMP VALVE FLANGE



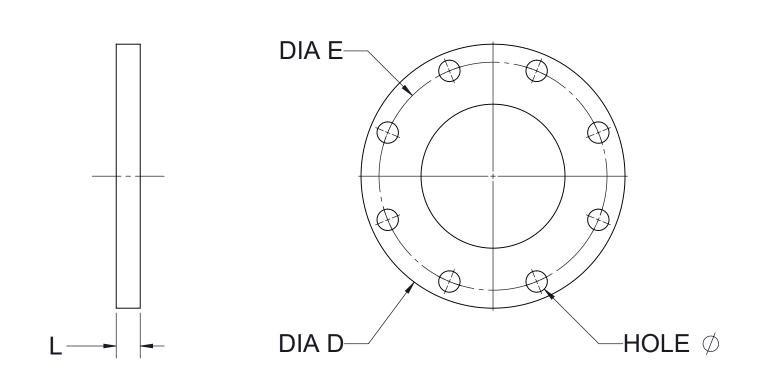
NIF	PPLE PART N	10.						
MOUNTED	MOUNTED ON BUTTERFLY VALVE				FLANGE			
	O FITTING GTH	YES	THREAD SIZE B		L		VOL.	INCLUDES GASKET
OTHER THAN 6.750	6.750					DIA D	DIA E	
72453-A				1.000/25.40	3.375/85.73			
72572-A	SEE TYPE	17   SEE DPL			5.250/133.35	11.000/279.40	9.500/241.30	73760
72578-A	FITTINGS		6.0 IN. NH	.875/22.23	6.250/158.75			
72579-A					7.250/184.15			

(USE WITH FLANGED SECTION 1 AND SECTION 2 INTAKE FITTINGS ON DPL81867)



(USE WITH FLANGED SECTION 1 AND SECTION 2 INTAKE FITTINGS ON DPL81867)

#### NIPPLE EXTENSION



EXTENSION	SIZE	L	L				
PART NO.		_	DIA D	DIA E	HOLE Ø	GASKET	
61984-A	6 O INI	1.000/25.40	11.000/279.40	9.500/241.30	(8) Ø.875/22.23	72760	
*61984-AA	6.0 IN. 1984-AA	2.000/50.80	11.000/279.40			73760	

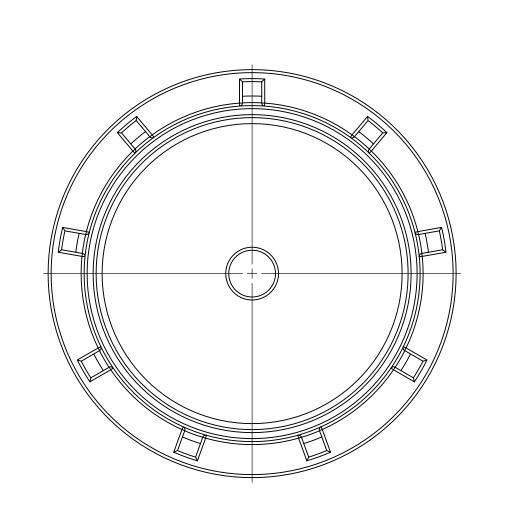
\*NOTE: 61984-AA CONSISTS OF (2) 1 IN. 61984-A EXTENSIONS. (USE WITH FLANGED SECTION 1 AND SECTION 2 INTAKE FITTINGS ON DPL81867)

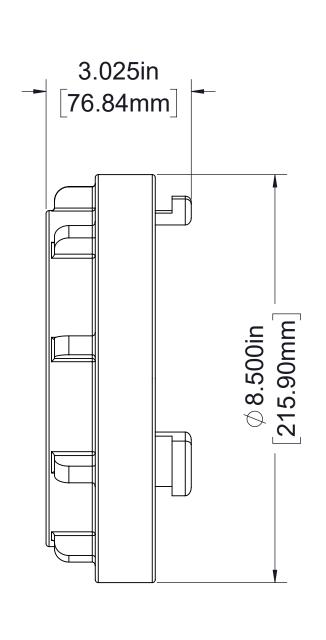
6 IN. JAMESBURY BUTTERFLY VALVES. SEE DRAWING DPL83723

- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

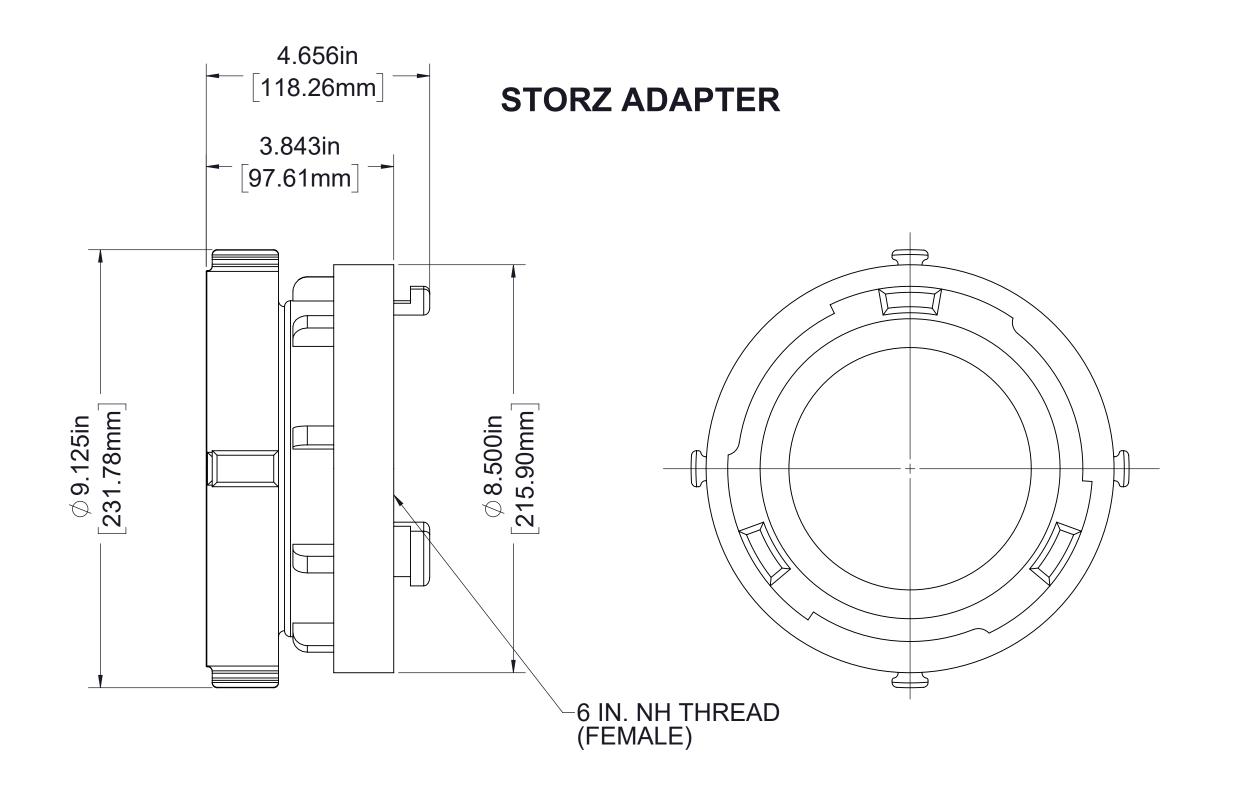
#### TYPE 13 - FITTINGS FOR 6 IN. FLANGED ENDS ON INTAKE FITTINGS

#### **CAP ASSEMBLY - 6IN. STORZ**



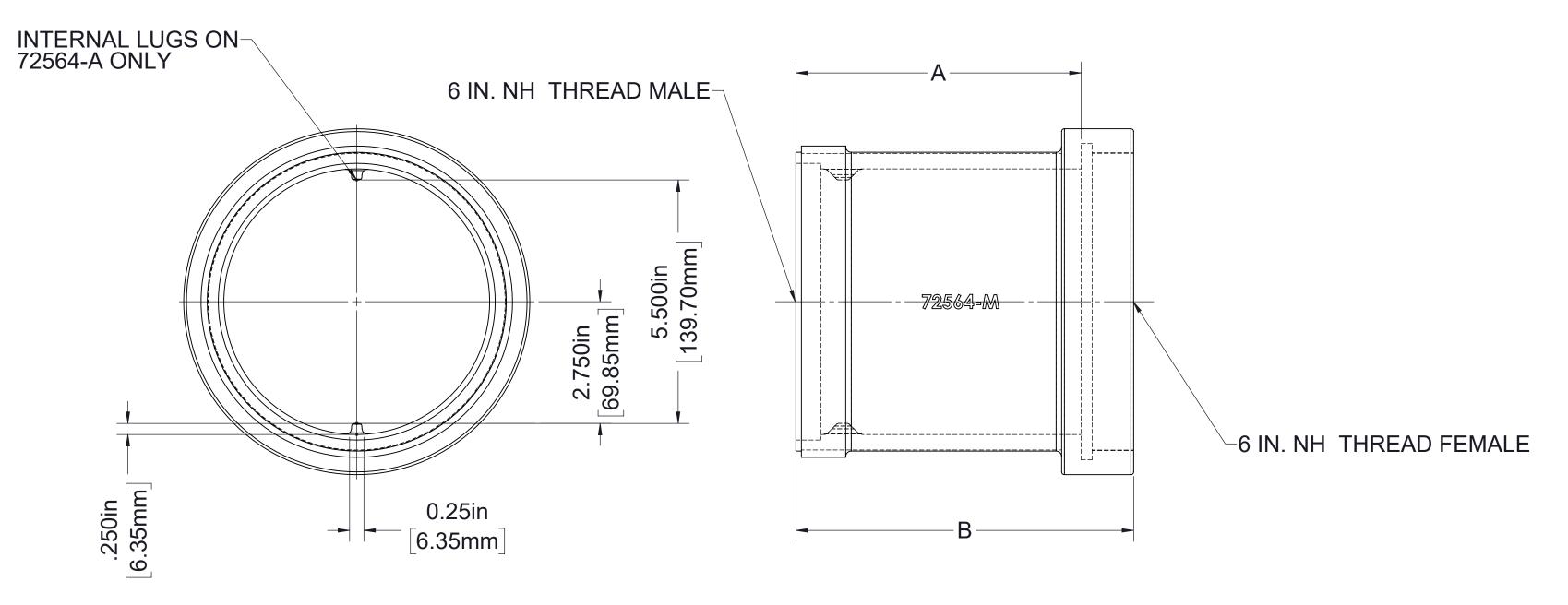


PART NO.	DESCRIPTION
V3781	CAP ASSY. 6 IN. STORZ



PART NO.	DESCRIPTION	THREAD SIZE
V3782	ADAPTER	6 IN. STORZ W/LOCK X 6 IN. NH FEMALE

#### THREADED INTAKE FITTING EXTENSIONS



B (OVERALL LENGTH) INCLUDES GASKET (EXT. LENGTH) PART NO. THREAD SIZE 3.750/92.25 4.750/120.65 72534-A 6 IN. NH 63011 72564-A 6.500/165.10 7.625/193.68

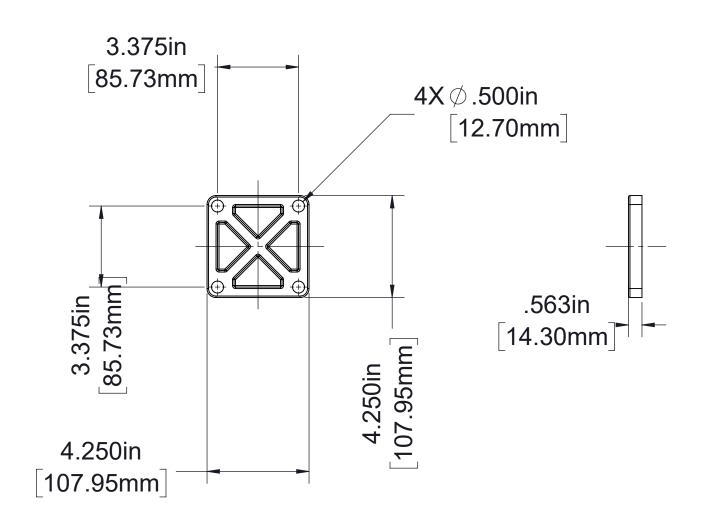
- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **TYPE 14 - FITTINGS FOR 3 IN. RELIEF VALVE PADS**

#### RELIEF VALVE PAD BLIND FLANGES

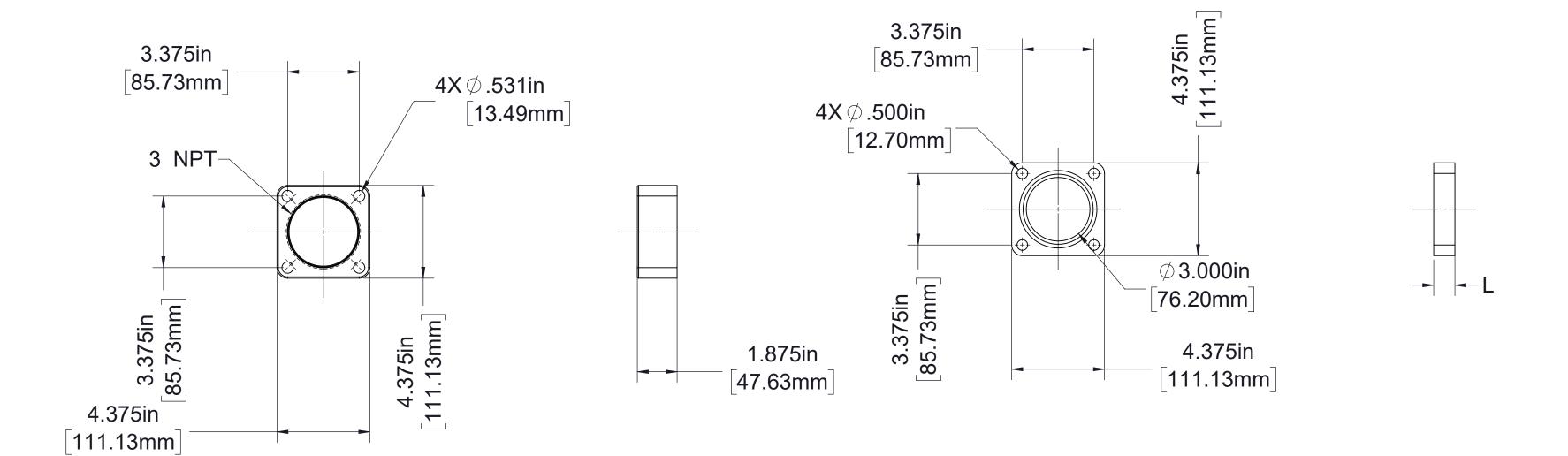
#### RELIEF VALVE PAD TAPPED FLANGES

#### RELIEF VALVE PAD EXTENSIONS



# USED ON 3 IN. RELIEF VALVE PAD WHEN RELIEF VALVE IS NOT FURNISHED

PART NO.	DESCRIPTION	INCLUDES O-RING
62950-A	BLIND FLANGE	W3756-4

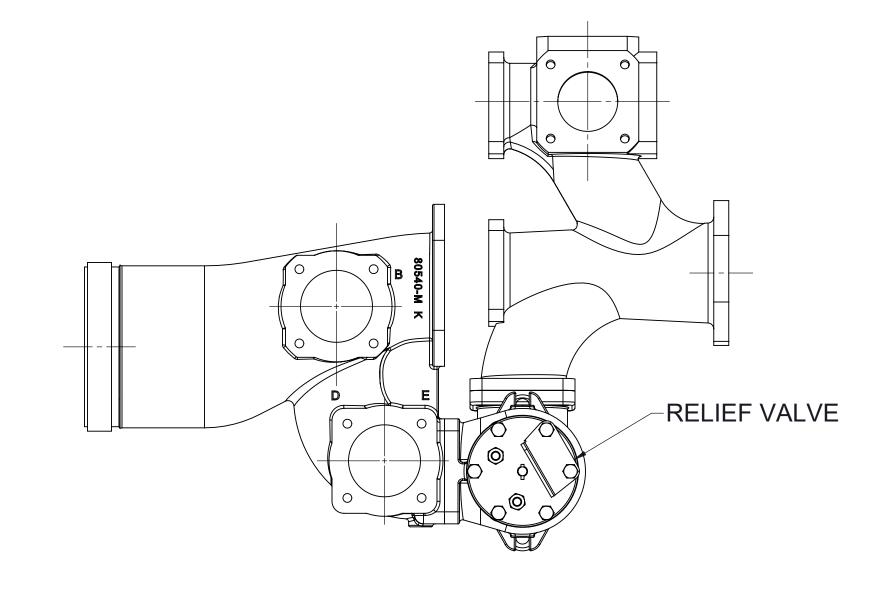


PART NO.	DESCRIPTION	INCLUDES O-RING
62206-2A	3 NPT TAPPED FLANGE	W3756-4

USED ON 3 IN. RELIEF VALVE PAD

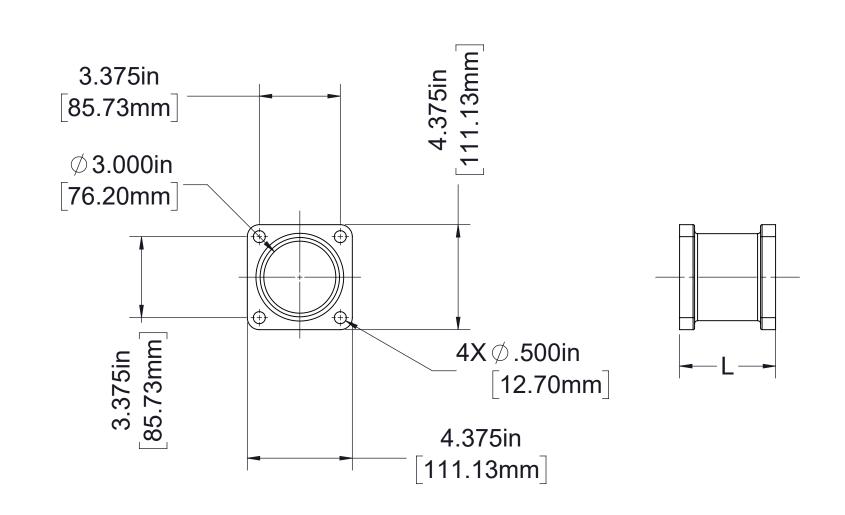
PART NO.	L	INCLUDED STUDS	USE WITH INTAKE EXTENSION	INCLUDES O-RING
61647-A	1.000/25.40	(2) 51312	5002-A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
*61647-AA	2.000/50.80	(2) 51312-1	5003-A	W3754-4

\*NOTE: 61647-AA CONSISTS OF (2) 1 IN. 61947-A EXTENSIONS. (USE WITH SECTION 1 INTAKE FITTINGS ON DPL81867)



MOUNT RELIEF VALVE BETWEEN INTAKE AND DISCHARGE FITTINGS

REFER TO DIMENSIONAL DRAWING DPL82084-1 FOR ADDITIONAL DETAILS



PART NO.	L	USE WITH INTAKE EXTENSION	INCLUDES O-RING
61646-A	4.000/101.60	5005-A	W3754-4

(USE WITH SECTION 1 INTAKE FITTINGS ON DPL81867)

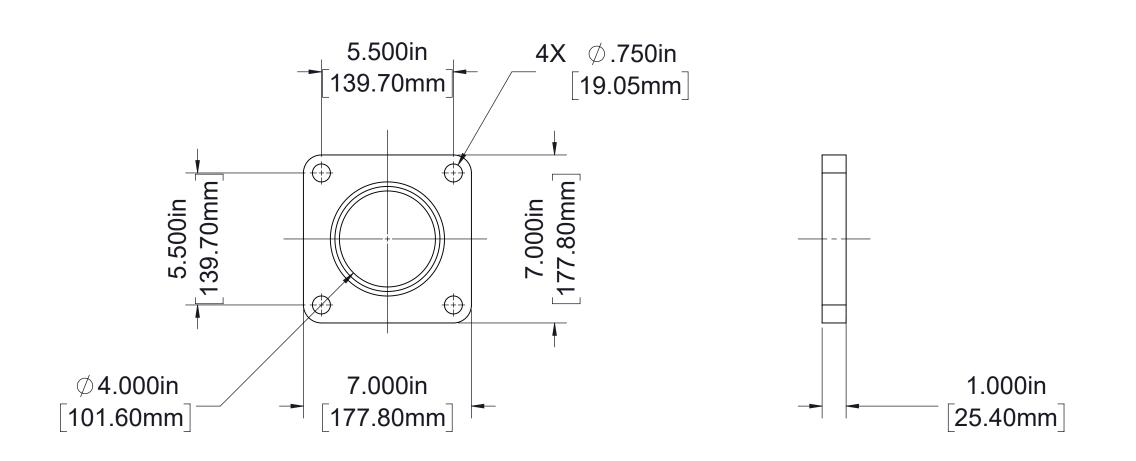
- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **TYPE 15 - FITTINGS FOR 4 IN. RELIEF VALVE PADS**

#### RELIEF VALVE PAD BLIND FLANGES

### 5.500in 4X ∅.750in 139.70mm [19.05mm] 5.500in [139.70mm] 7.000in 177.80mn 7.000in [177.80mm] 16.66mm

#### RELIEF VALVE PAD EXTENSIONS



USED ON 4 IN. RELIEF VALVE PAD WHEN RELIEF VALVE IS NOT FURNISHED

	PART NO.	DESCRIPTION	INCLUDES O-RING
	72569-A	BLIND FLANGE	W3772-4
82163-M		B	RELIEF VALVE

MOUNT RELIEF VALVE BETWEEN INTAKE AND DISCHARGE FITTINGS REFER TO DIMENSIONAL DRAWING DPL82084-2 FOR ADDITIONAL DETAILS

SPACER REQUIRED WHEN AN INTAKE EXTENSION IS ORDERED AND RELIEF VALVE IS MOUNTED ON PUMP

PART NO.	DESCRIPTION	INCLUDES O-RING
63842-A	RELIEF VALVE SPACER	W3772-4

1 IN. INTAKE EXTENSION ORDERED

NOTE: 4 IN. RELIEF VALVE EXTENSIONS ARE NOT CURRENTLY AVAILABLE. 4 IN' LONG EXTENSION 62408-A MAY BE USED BETWEEN THE PUMP BODY AND THE DISCHARGE FITTING TO COMPENSATE FOR INTAKE EXTENSION 7251-A.

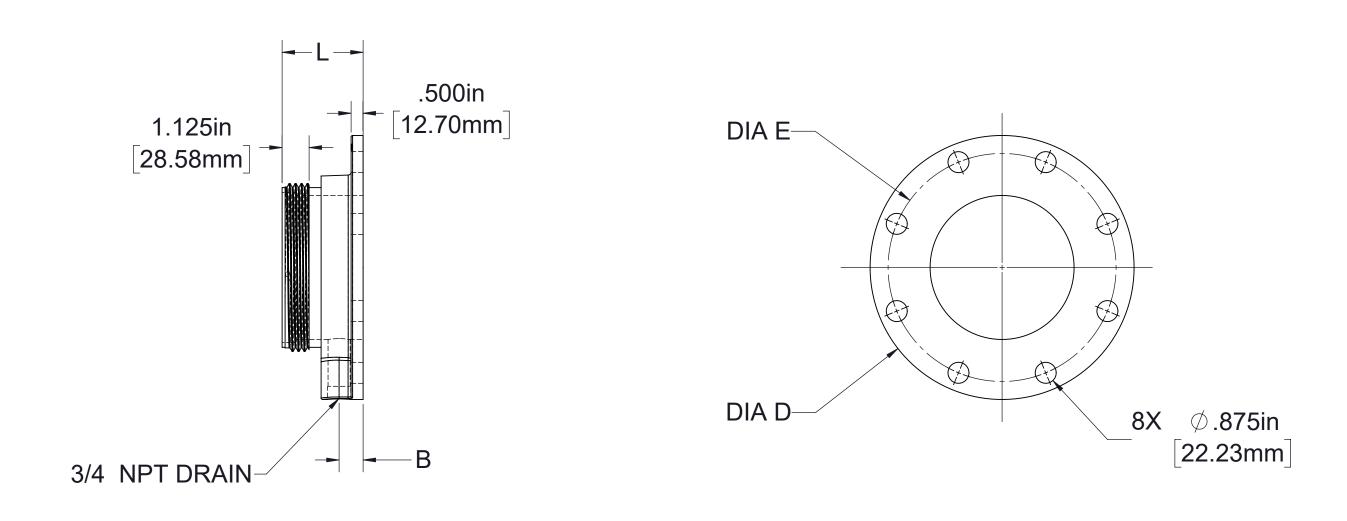
4 IN. INTAKE EXTENSION ORDERED

MOUNT RELIEF VALVE ORDERED

- ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
   SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
- 3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 17 - FITTINGS FOR 6 IN. FLANGED ENDS ON 6-3/4 IN. LONG INTAKE FITTINGS

#### NIPPLES WITHOUT DUMP VALVE FLANGE



NIF	PPLE PART N	NO.						
MOUNTED	ON BUTTER	FLY VALVE	THREAD SIZE B			FLANGE		
N				B L			INCLUDES GASKET	
INTAKE LEN	GTH	YES						
OTHER THAN 6.750	6.750					DIA D	DIA E	
	72453-2A			1.000/25.40	3.375/85.73	11.000/279.40 9	9.500/241.30	73760
SEE TYPE	72572-2A	SEE DPL		6.0 IN. NH .875/22.23	5.250/133.35			
FITTINGS	72578-2A	83723	O.O IIV. IVITI		6.250/158.75		9.500/241.50	
	72579-2A				7.250/184.15			

(USE WITH FLANGED SECTION 1 AND SECTION 2 INTAKE FITTINGS ON DPL81867)

6 IN. JAMESBURY BUTTERFLY VALVES SEE DRAWING DPL83723

# NIPPLES WITH DUMP VALVE FLANGE $\emptyset$ 9.500in 8X ∅.875in [241.30mm] [22.23mm] 4X ∅ .469in [11.91mm] ON ∅4.375/111.13 B.C. Ø11.000in [279.40mm] .875in [22.23mr [211.12mm] $- \, \emptyset \, 2.500$ in. [63.50mm] 2,2 VIEW A-A SPECIFY TYPE 19 FITTINGS IF NECESSARY 3/4 NPT DRAIN— (BOTH SIDES)

NIPPLE PART NO. MOUNTED ON BUTTERFLY VALVE		THREAD SIZE	L	INCLUDES GASKET
NO	YES			OAOILI
72818-A			5.250/133.35	
72819-A	SEE DPL83723	5.0 IN. NH	6.250/158.75	
72820-A			7.250/184.15	73760
72716-A			5.250/133.35	73700
72717-A		6.0 IN. NH	6.250/158.75	
72718-A			7.250/184.15	

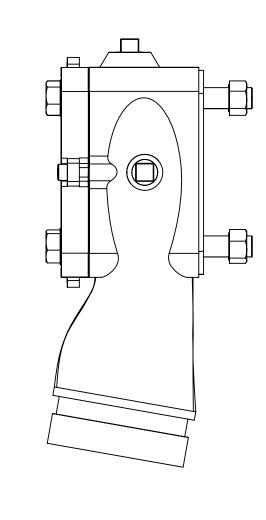
(USE WITH FLANGED SECTION 1 AND SECTION 2 INTAKE FITTINGS ON DPL81867)

- NOTES:

  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.

  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
- 3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

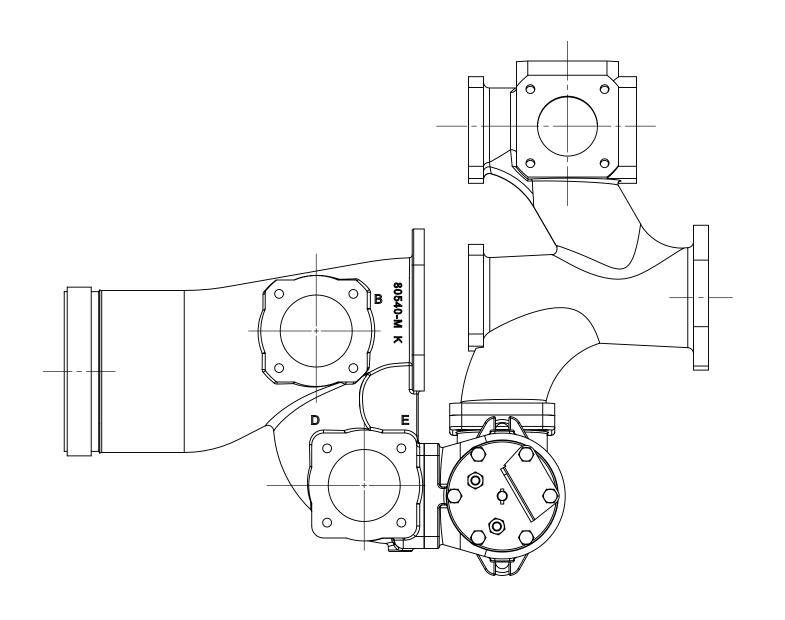
# TYPE 19 - FITTINGS FOR DUMP FLANGE ON INTAKE NIPPLES INTAKE RELIEF VALVE



PART NO. 82256-6

MOUNT INTAKE RELIEF VALVE REFER TO DIMENSIONAL DRAWING DPL82084-5

# TYPE 20 - FITTINGS FOR RELIEF VALVE EXTENSION MOUNT DISCHARGE RELIEF VALVE



MOUNT RELIEF VALVE ON EXTENSION BETWEEN INTAKE AND DISCHARGE FITTINGS REFER TO DIMENSIONAL DRAWING DPL82084-1 OR DPL82084-2 FOR ADDITIONAL DETAILS

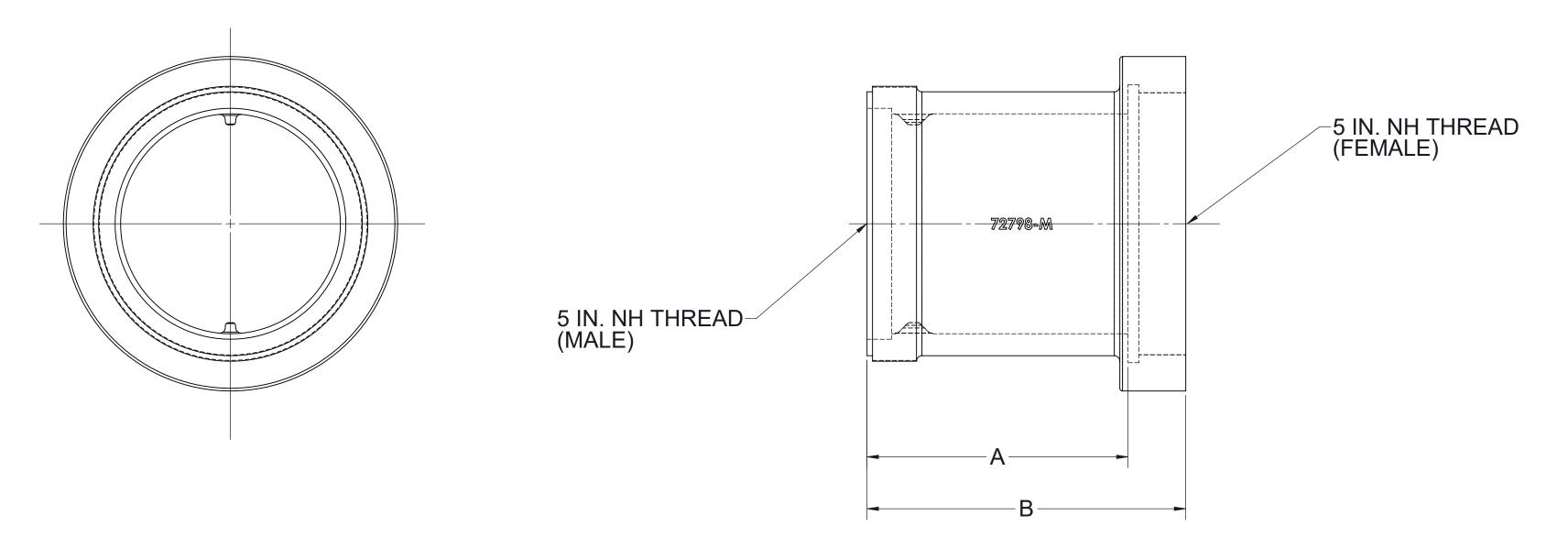
- NOTES:

  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.

  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
- 3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 23 - FITTINGS FOR 5 IN. THREADED ENDS ON INTAKE FITTINGS

#### THREADED INTAKE FITTING EXTENSIONS

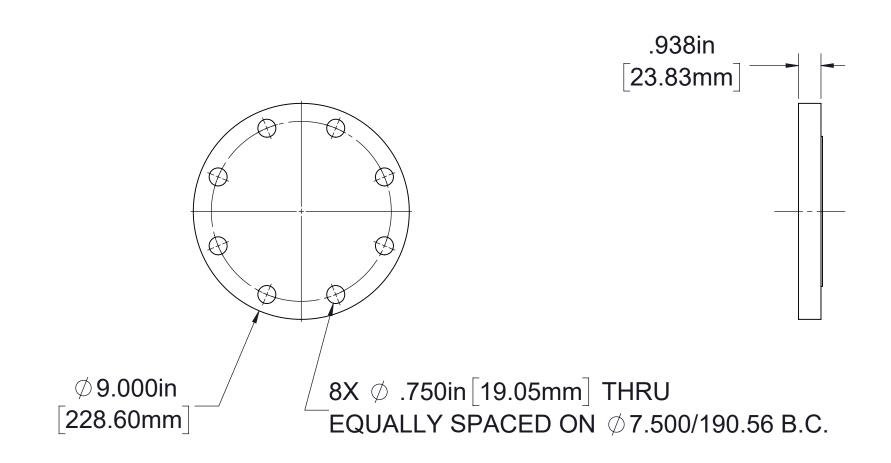


EXTENSION PART NO.	THREAD SIZE	(EXT. LENGTH)	B (OVERALL LENGTH)	INCLUDES GASKET
72798-A	5 IN NH.	6.500/165.10	7.625/193.68	63203

USE TO EXTEND 5 IN. NH THREADED FITTINGS (IRON ONLY AVAILABLE)

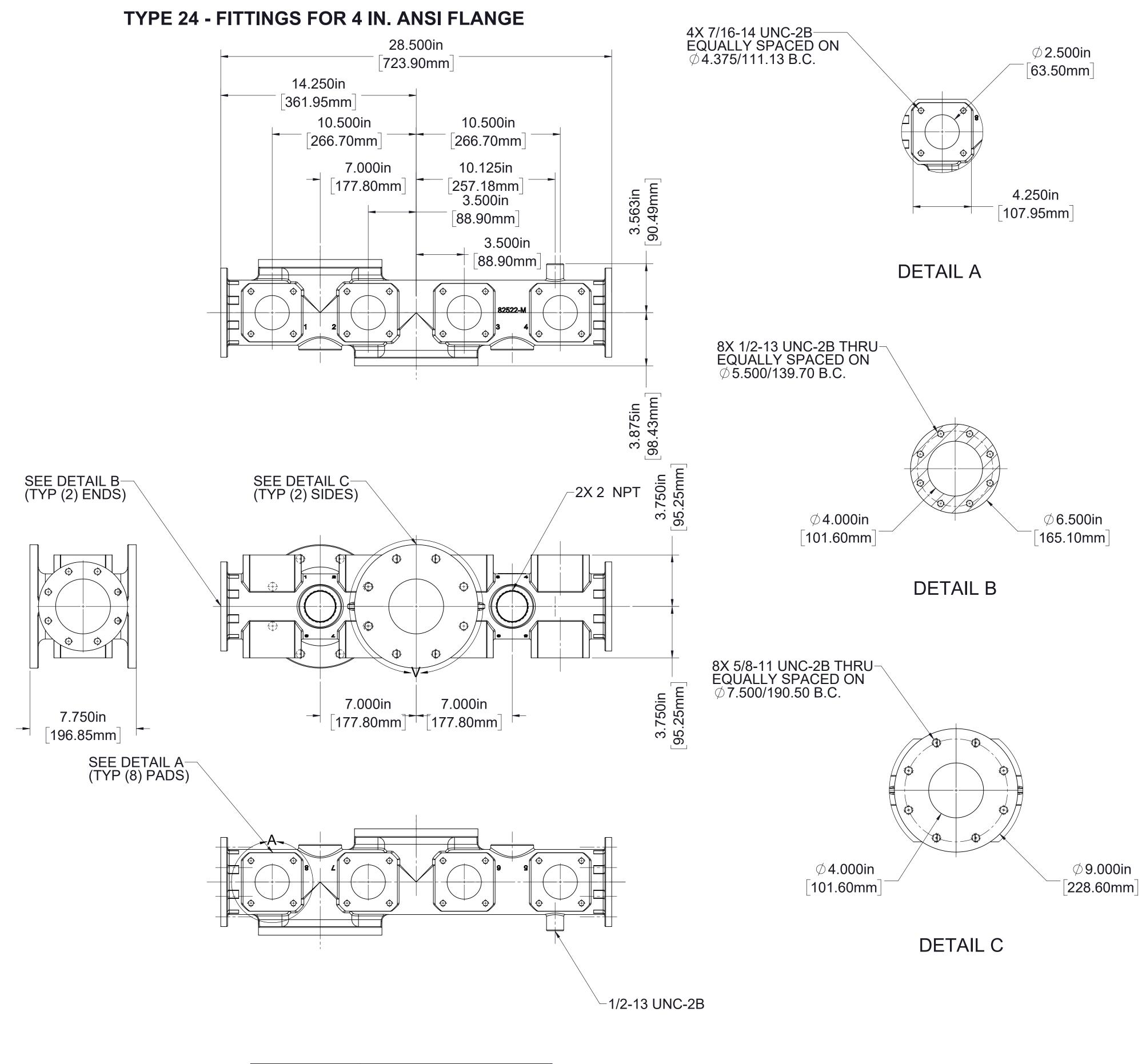
- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **FLANGE**



PART NO.	DESCRIPTION	INCLUDES GASKET
V3338-A	BLIND FLANGE 4 IN. ANSI	62476

(IRON ONLY AVAILABLE)



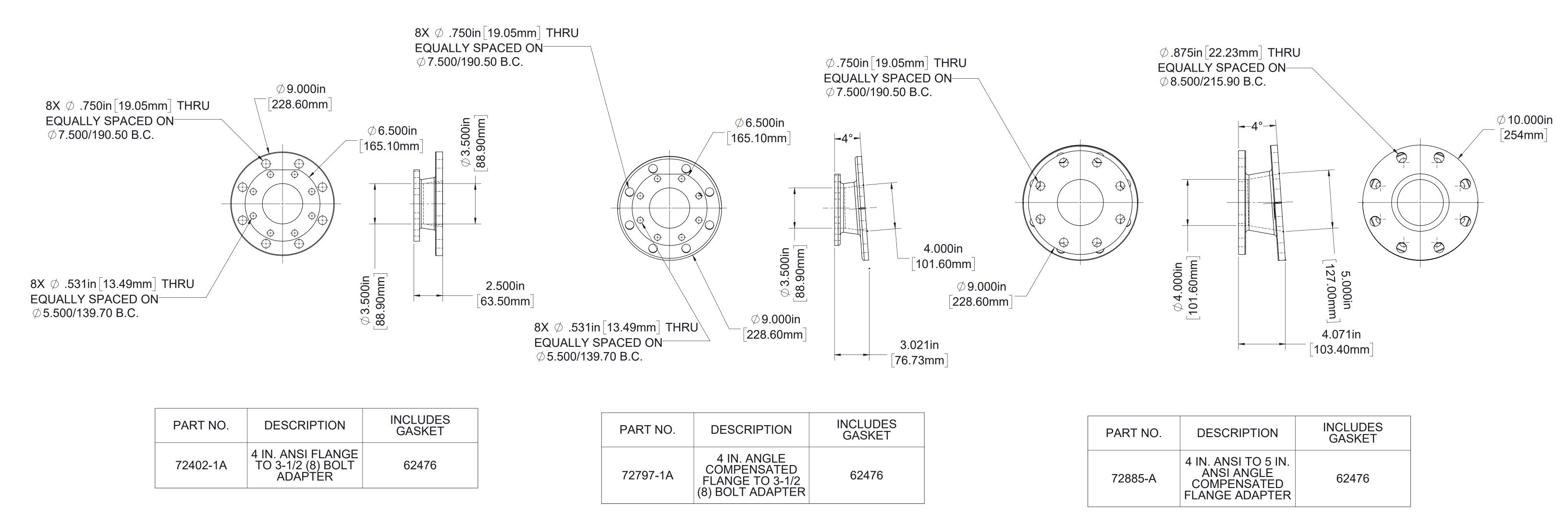
PART NO. DESCRIPTION
82522 DISCHARGE MANIFOLD

(IRON ONLY AVAILABLE)

NOTES: 1. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE. 2. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **TYPE 24 - FITTINGS FOR 4 IN. ANSI FLANGE**

#### **ADAPTERS**

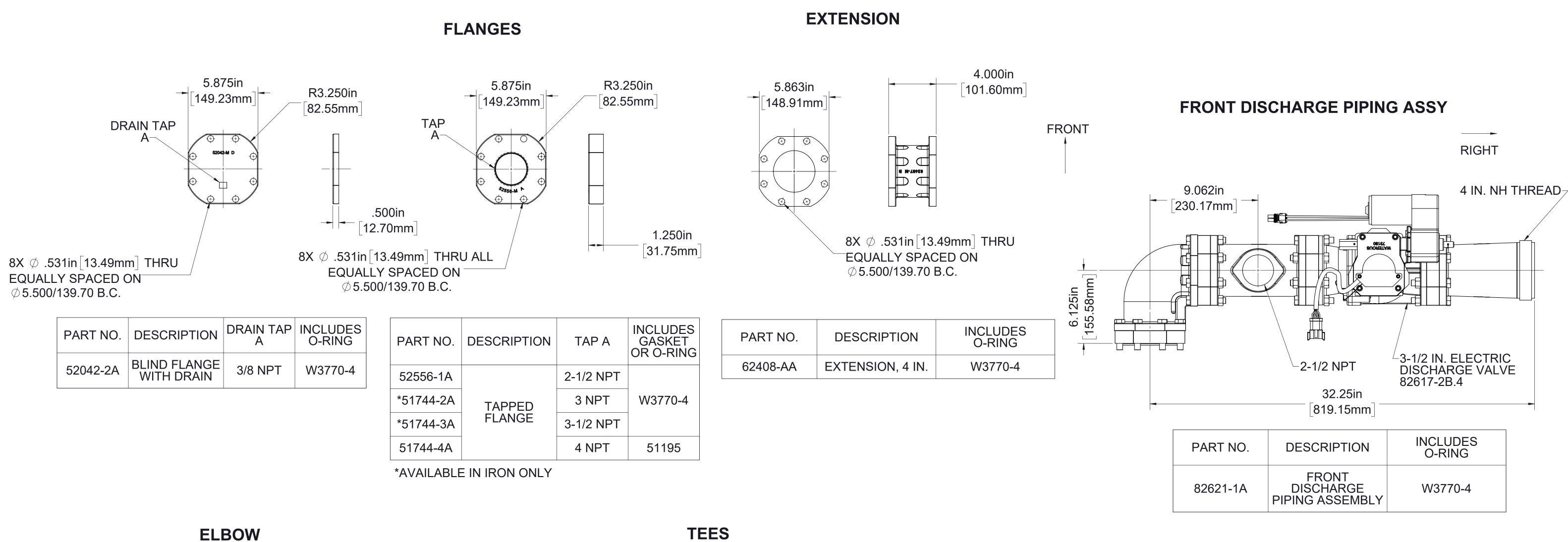


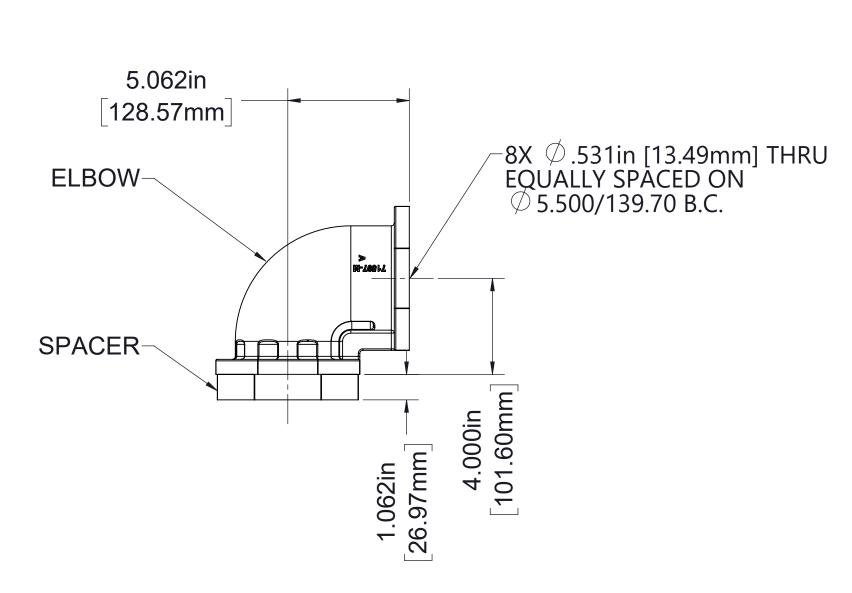
(IRON ONLY AVAILABLE)

#### NOTES:

- ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
   SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
- 3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

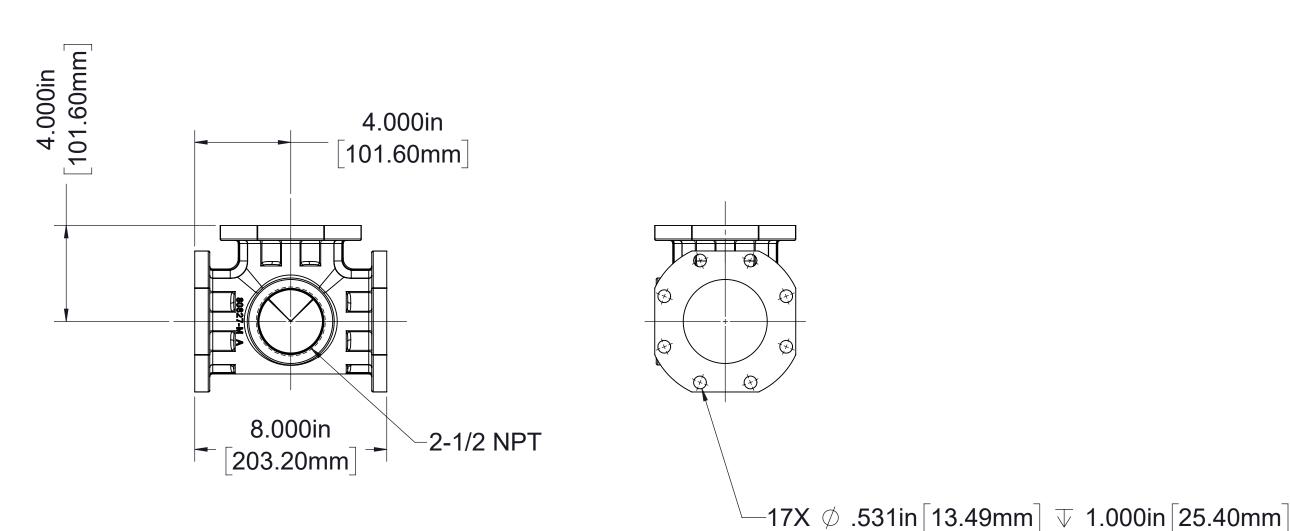
#### TYPE 25 - FITTINGS FOR 3-1/2 IN. FRONT DISCHARGE ON CM/CS PUMPS





PART NO.	DESCRIPTION	SPACER	INCLUDES O-RING
71597-AA	90° ELBOW	NO	
71597-AAS	90° ELBOW WITH SPACER	YES	W3770-4

SPECIFY MOUNTING: OUTLET LEFT, RIGHT,. UP OR DOWN. ALSO SPECIFY WHICH LEG LENGTH, SHORT OR LONG TO BE FORWARD.

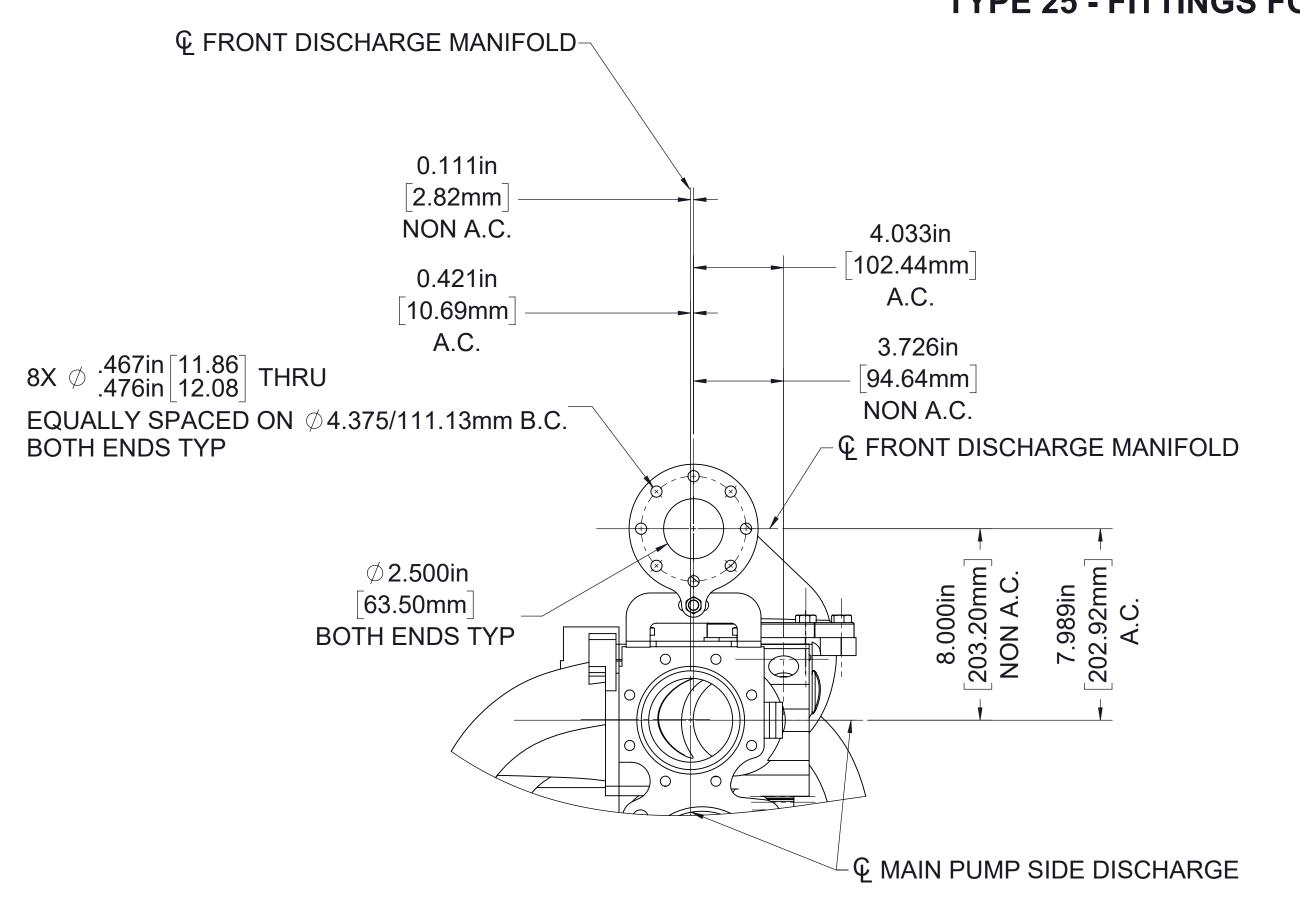


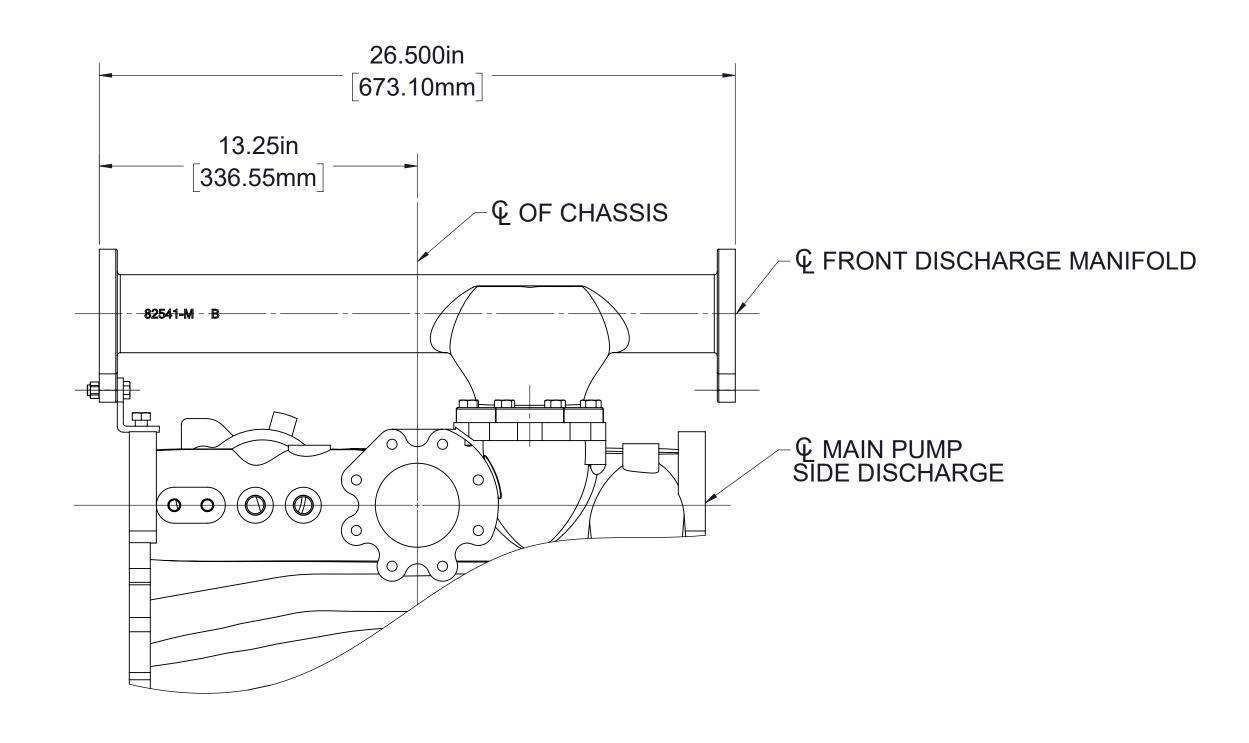
PART NO.	DESCRIPTION	INCLUDES O-RING	
80827-1AA	TEE	W3770-4	
AVAILABLE IN IRON ONLY			

- NOTES:
  1. ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
  2. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  3. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 25 - FITTINGS FOR 3-1/2 IN. FRONT DISCHARGE ON CM/CS PUMPS

**MANIFOLD** 





PART NO.	DESCRIPTION
82551	FRONT DISCHARGE MANIFOLD

NOTES:

ALL FITTINGS ARE AVAILABLE IN IRON OR BRONZE UNLESS OTHERWISE SPECIFIED, ADD "-BZ" SUFFIX TO PART NUMBER FOR BRONZE FITTINGS.
 SPECIFY WHERE EACH FITTING IS TO BE MOUNTED.

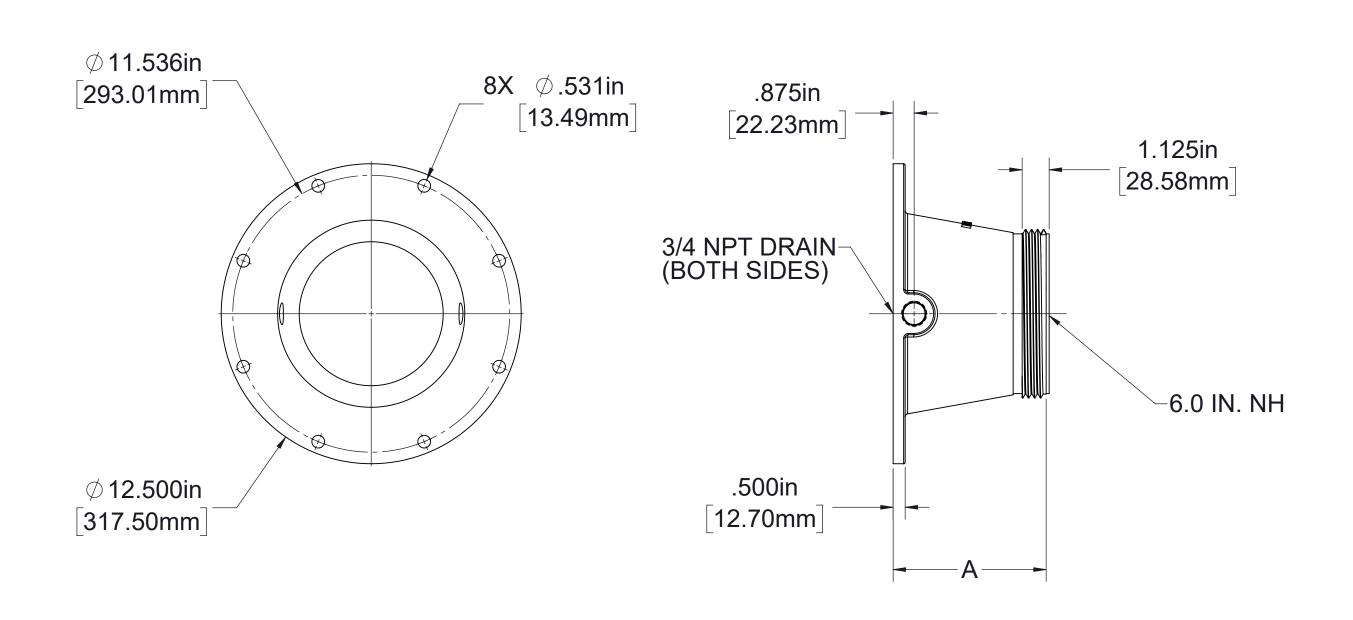
SPECIFY WHERE EACH FITTING IS TO BE MOUNTED. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.

<sup>3.</sup> ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### **TYPE 30 - FITTINGS FOR OVERSIZED PANT LEG INTAKE FITTING 82952**

#### THREADED NIPPLES

#### NIPPLE WITHOUT DUMP VALVE FLANGE

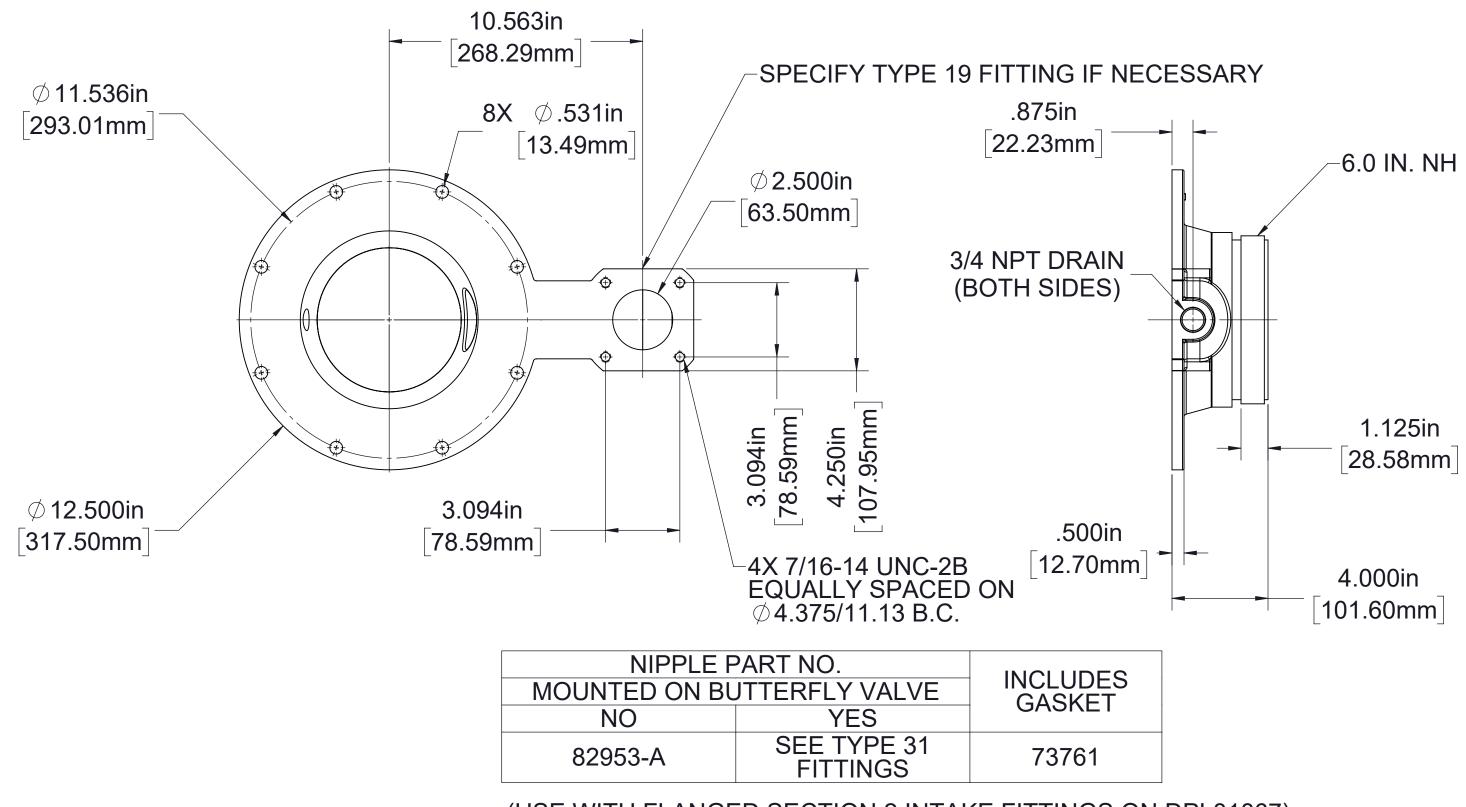


MOUN	NIPPLE PART NO. MOUNTED ON BUTTERFLY VALVE		A	INCLUDES GASKET
1	VO	YES		OAORET
829	957-A	SEE TYPE 31	6.500/165.10	73761
832	263-A	FITTINGS	4.000/101.60	73701

(USE WITH FLANGED SECTION 2 INTAKE FITTINGS ON DPL81867)

8 IN. JAMESBURY BUTTERFLY VALVE SEE DRAWING DPL83723

#### NIPPLE WITH DUMP VALVE FLANGE

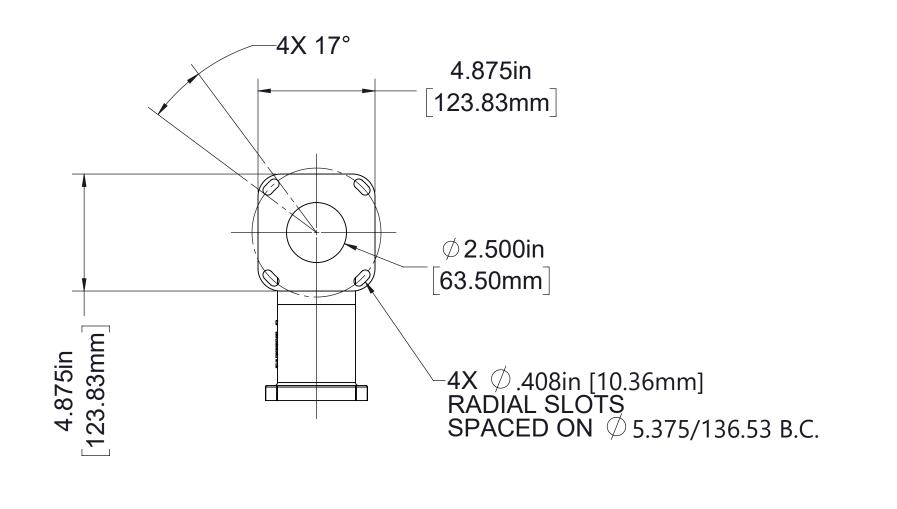


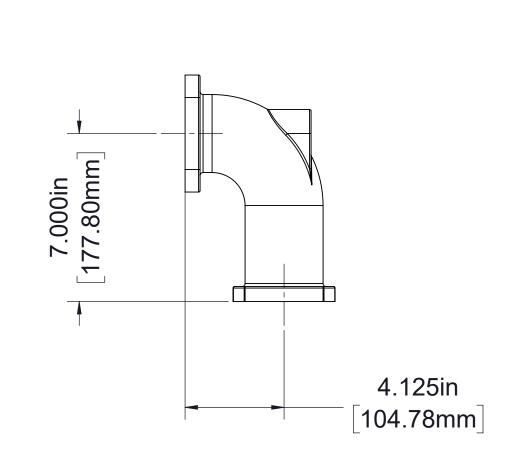
(USE WITH FLANGED SECTION 2 INTAKE FITTINGS ON DPL81867)

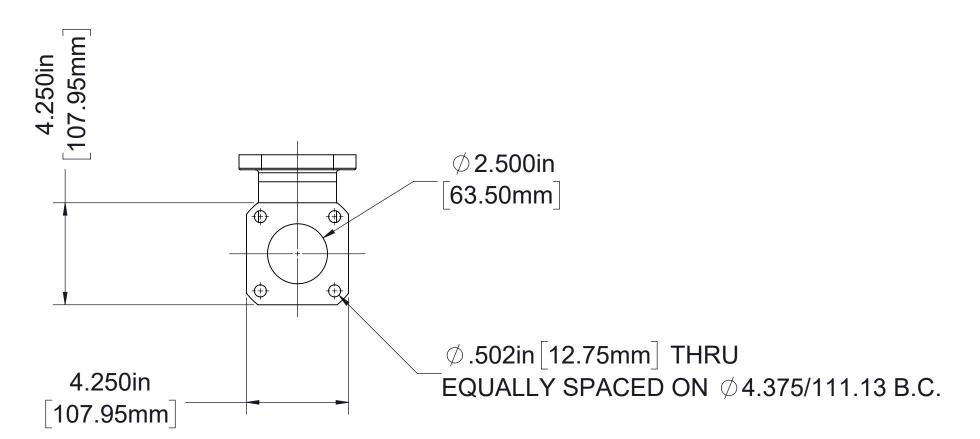
NOTES: 1. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE. 2. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.

#### TYPE 36 - FITTINGS FOR 2-1/2 IN. AKRON/ELKHART 4-BOLT MACHINED PADS

#### **ELBOW**



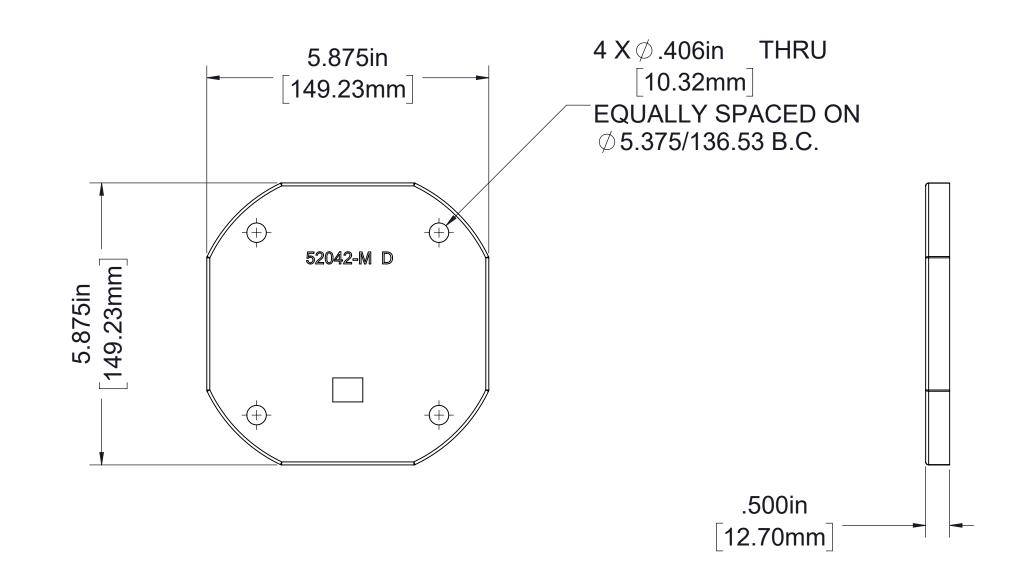




PART NO.	DESCRIPTION	INCLUDES GASKET
71443-2A	90° MEDIUM ELBOW	51218

(IRON ONLY AVAILABLE)

#### **FLANGE**

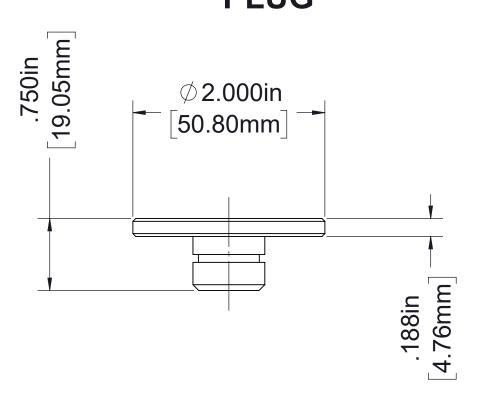


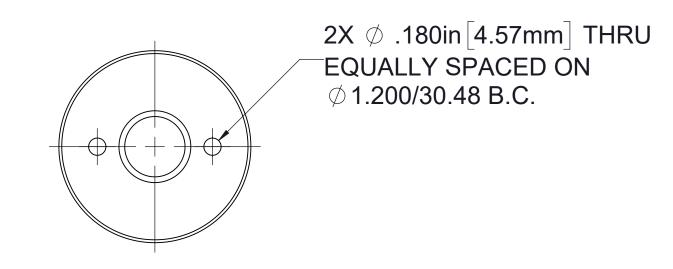
PART NO.	DESCRIPTION	INCLUDES O-RING
63615-A	BLIND FLANGE	W3756-4

(IRON ONLY AVAILABLE)

- NOTES:
  1. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
  2. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.
  3. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED.

TYPE 70 - FITTINGS FOR ADVANTUS CONDUCTIVITY PROBE TAP **PLUG** 



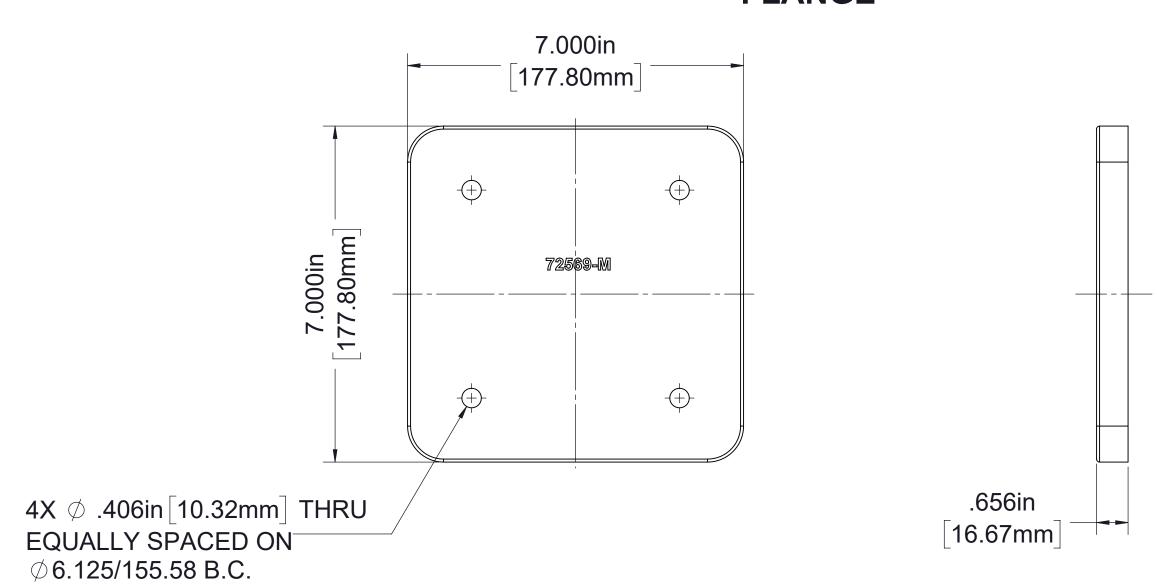


PART NO.	DESCRIPTION	INCLUDES O-RING
53072-A	PLUG	W3710-2

(IRON ONLY AVAILABLE)

TYPE 71 - FITTINGS FOR 3 IN. UNI-BODY (AKRON/ELKHART) 4-BOLT MACHINED PADS

### **FLANGE**

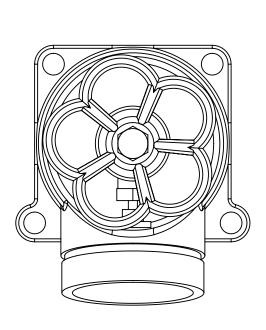


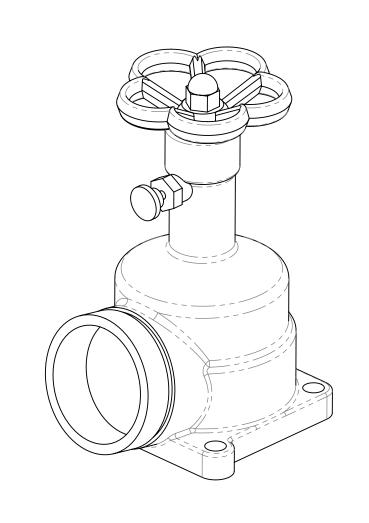
PART NO.	DESCRIPTION	INCLUDES O-RING
63642-A	BLIND FLANGE	W3772-4

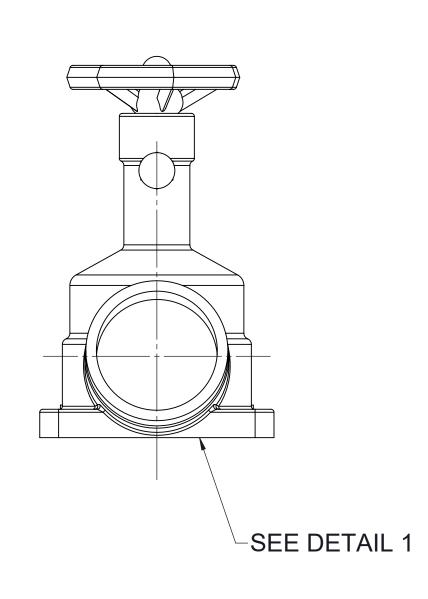
(IRON ONLY AVAILABLE)

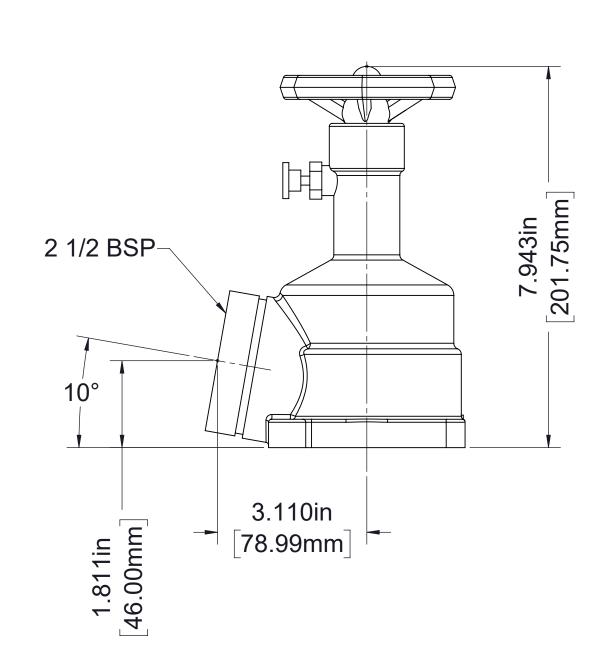
NOTES:
1. ALL FITTINGS INCLUDE GASKET AND MOUNTING HARDWARE.
2. ALL DIMENSIONS SHOWN AS INCH/MILLIMETER.
3. SPECIFY WHERE EACH FITTING IS TO BE MOUNTED.

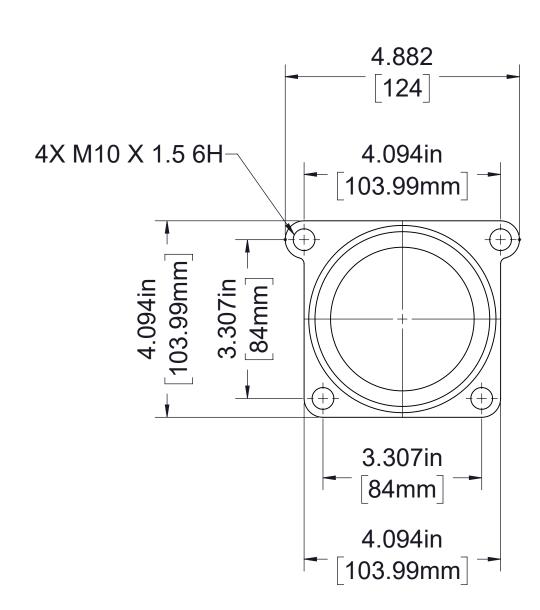
## 2-1/2 in. AWG VALVES





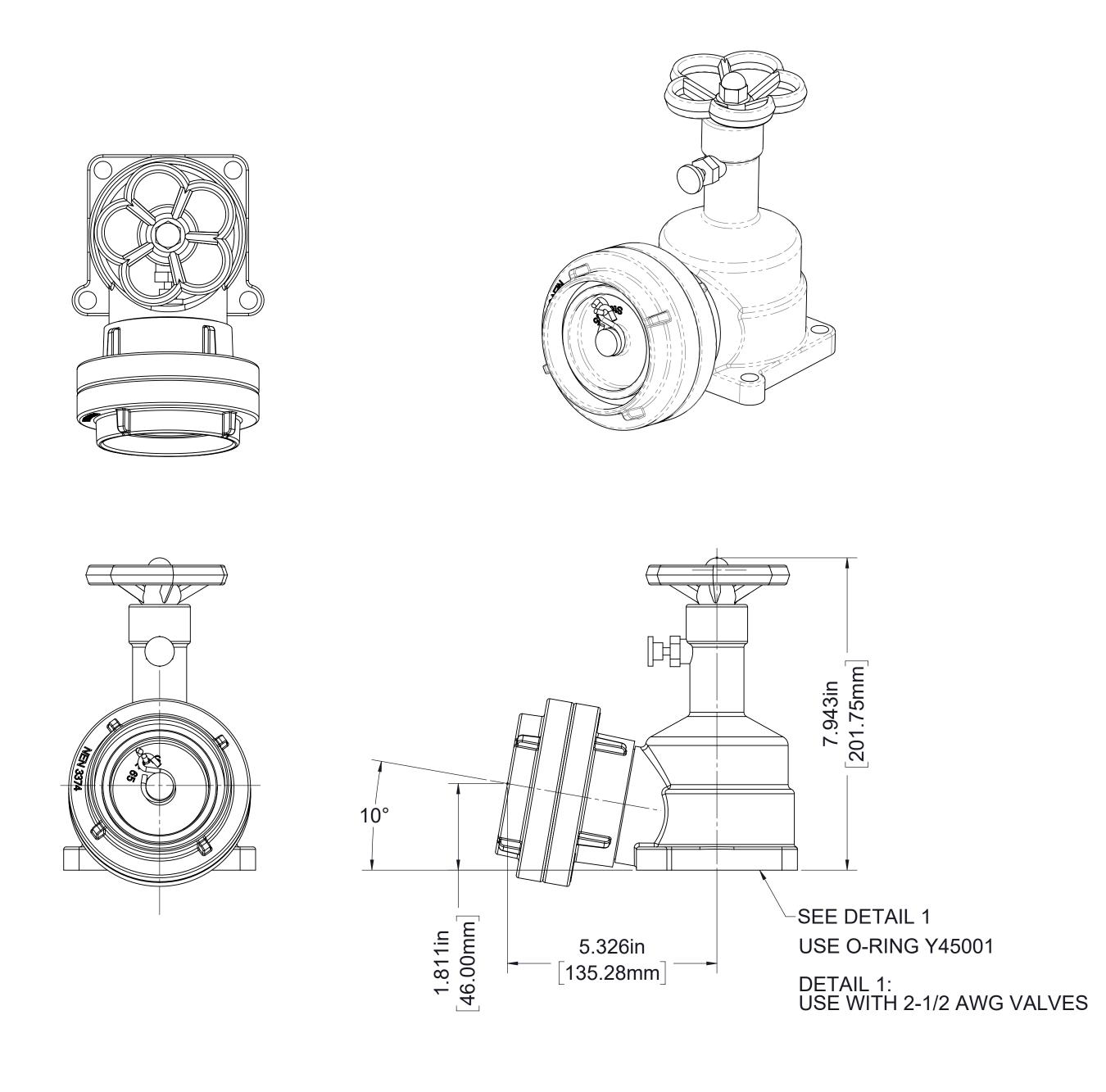






PART NUMBER INCLUDES O-RING
V2845-1ABZ Y45001

2-1/2 in. BSP AWG VALVE



PART NUMBER	INCLUDES O-RING
V2845-2ABZ	Y45001

65mm STORZ VALVE

NOTE: 1. ALL DIMENSIONS SHOWN AS INCH/ MILLIMETER.

DETAIL 1: AWG VALVE FLANGE