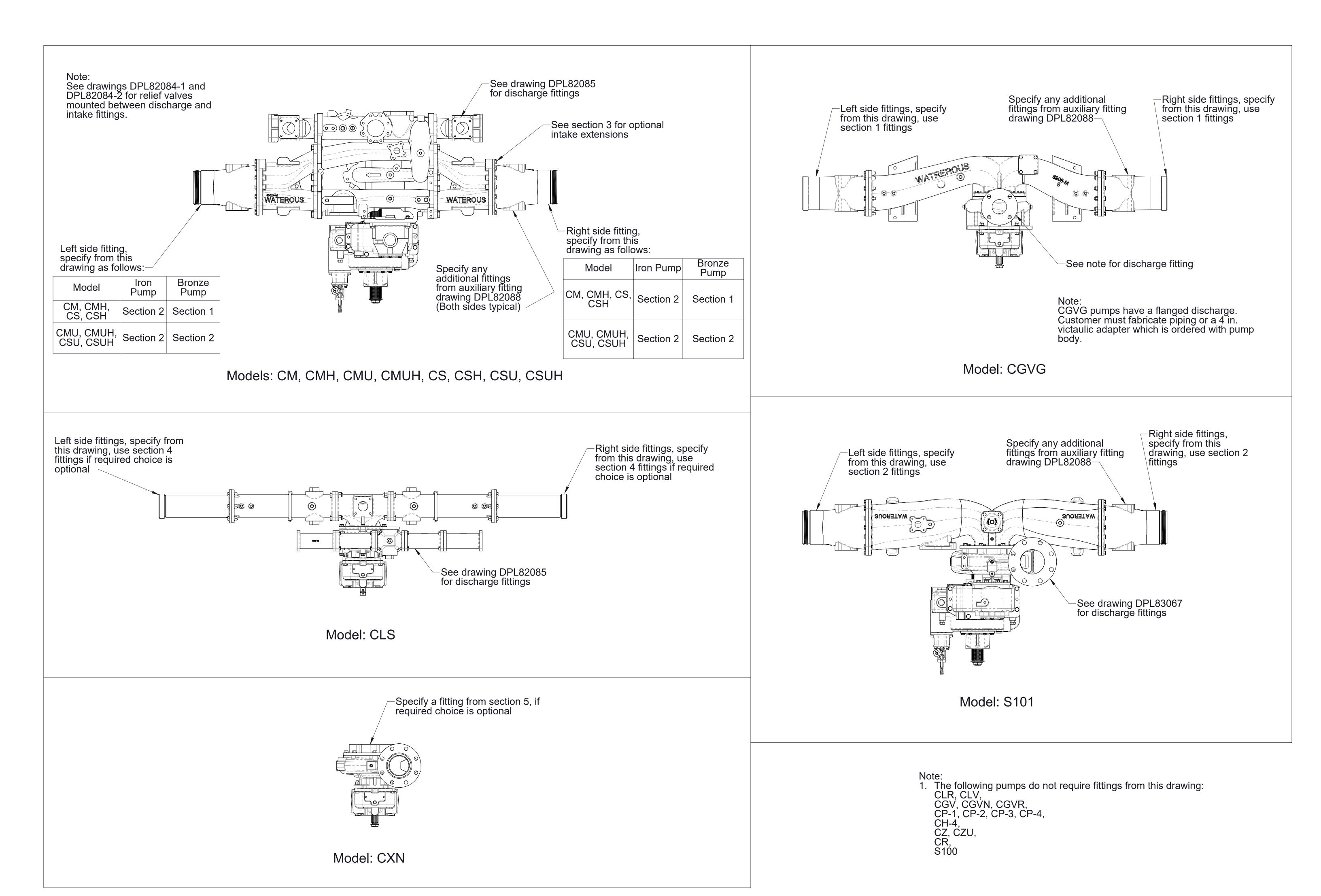


 Document Number
 Issue Date
 Rev. Date

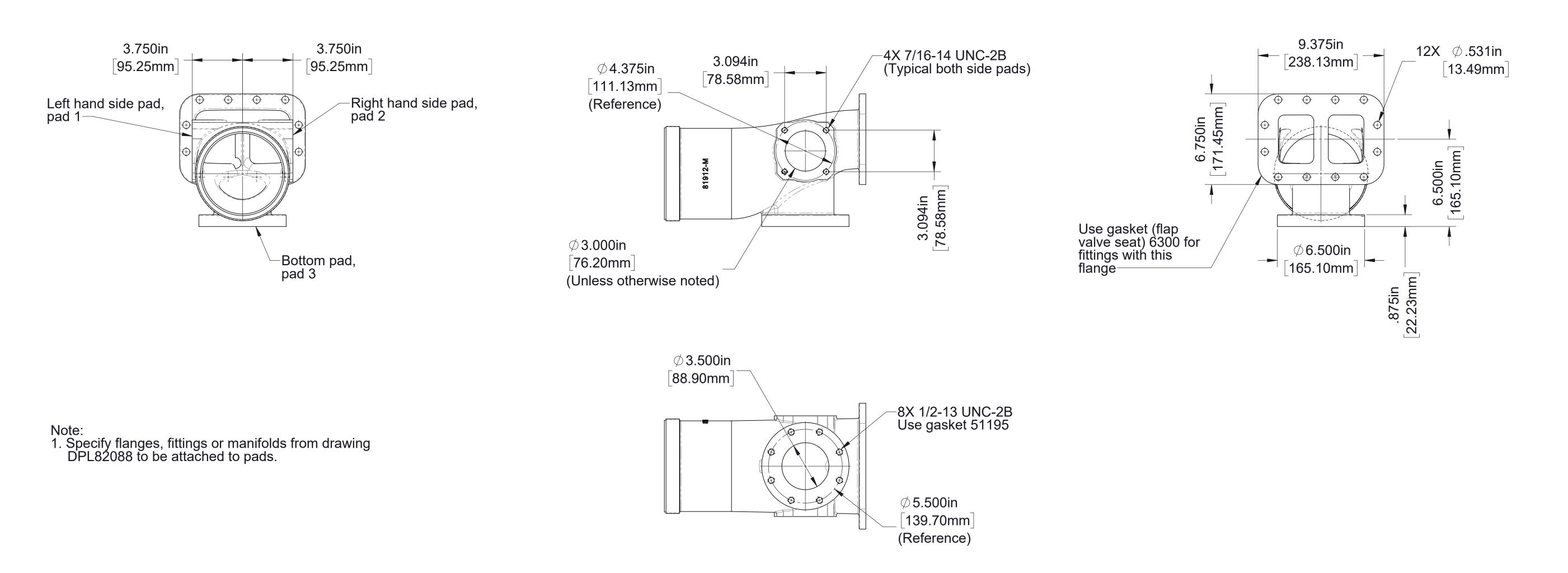
 DPL81867
 11/13/91
 10/12/21

Intake Fitting Dimensional Drawings

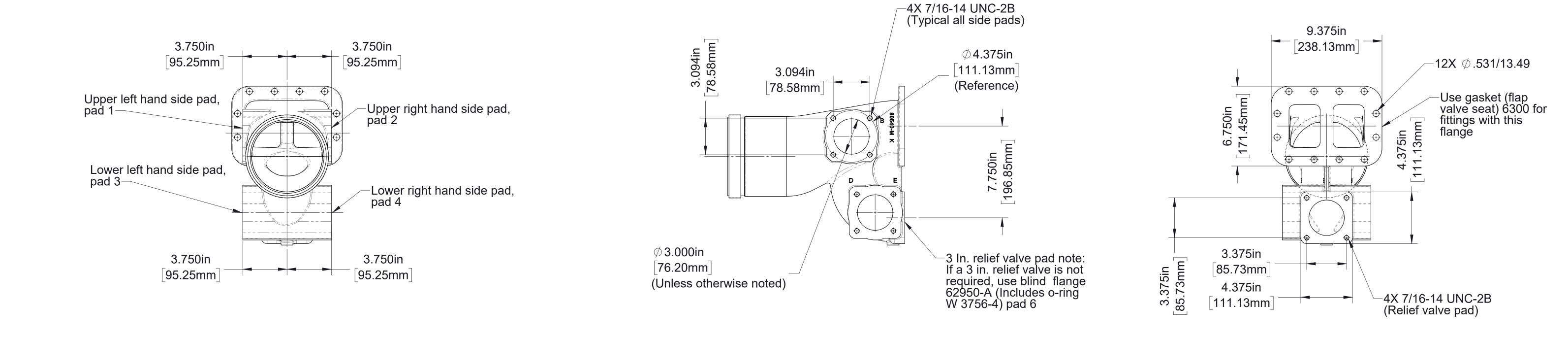
			Used On Pump	Models	
Section	Description	Mounting Flange Size on Pump	Iron Pumps	Bronze Pumps	See Page
1	Standard Flange Intake Fittings	9.375 in. X 6.750 in. Rectangular (12) Bolts	CGVG	CM, CMH, CS, CSH, CGVG	3-7
2	Large Flange Intake Fittings	11.500 in. X 8.125 in. Rectangular (16) Bolts	CM, CMU, CMH, CMUH, CS, CSU, CSH, CSUH, S101	CMU, CMUH,CSU, CSUH	8-15
3	Intoko Evtonojono	Used With Section 1 Fittings	CGVG	CM, CMH, CS, CSH, CGVG	16
S	Intake Extensions	Used With Section 2 Fittings	CM, CMU, CMH, CMUH, CS, CSU, CSH, CSUH	CMU, CMUH, CSU, CSUH	16
4	Round Flange Intake Fittings	(6) Bolt on 5.750 in. B.C.	CLS		17
5	6 in. ANSI Flange Intake Fittings	6 in. ANSI Flange	CXN		18-21
6	Intake Screens	N/A	All Mode	ls	22



Specify Fittings From This Drawing To Be Mounted Directly on the Pump Intake Flanges as Follows:



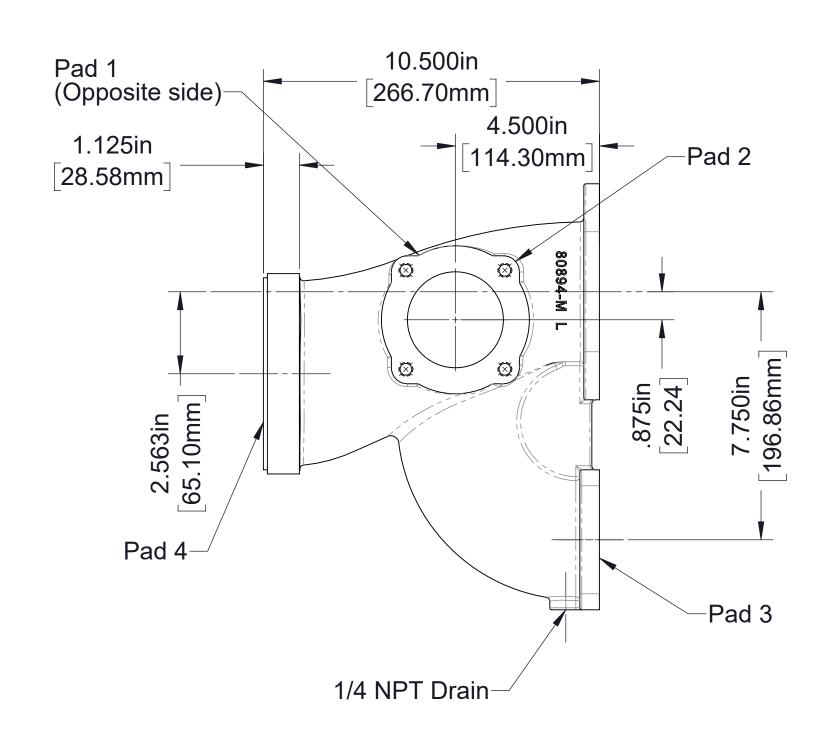
Flange Dimensions and Side Pad Details for Fittings Without Relief Valve Pad



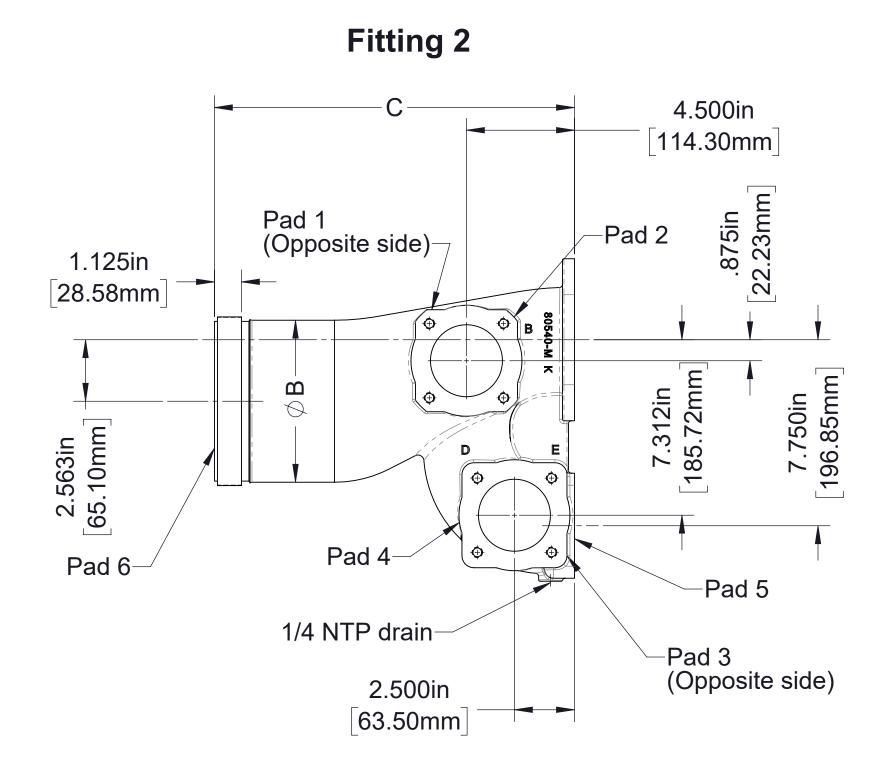
Notes:
1. Specify flange or fittings from drawing DPL82088 to be attached to pads.

Flange Dimensions and Side Pad Details for Fittings With 3 In. Relief Valve Pad





Part No.	Thread Size
81833	5 in



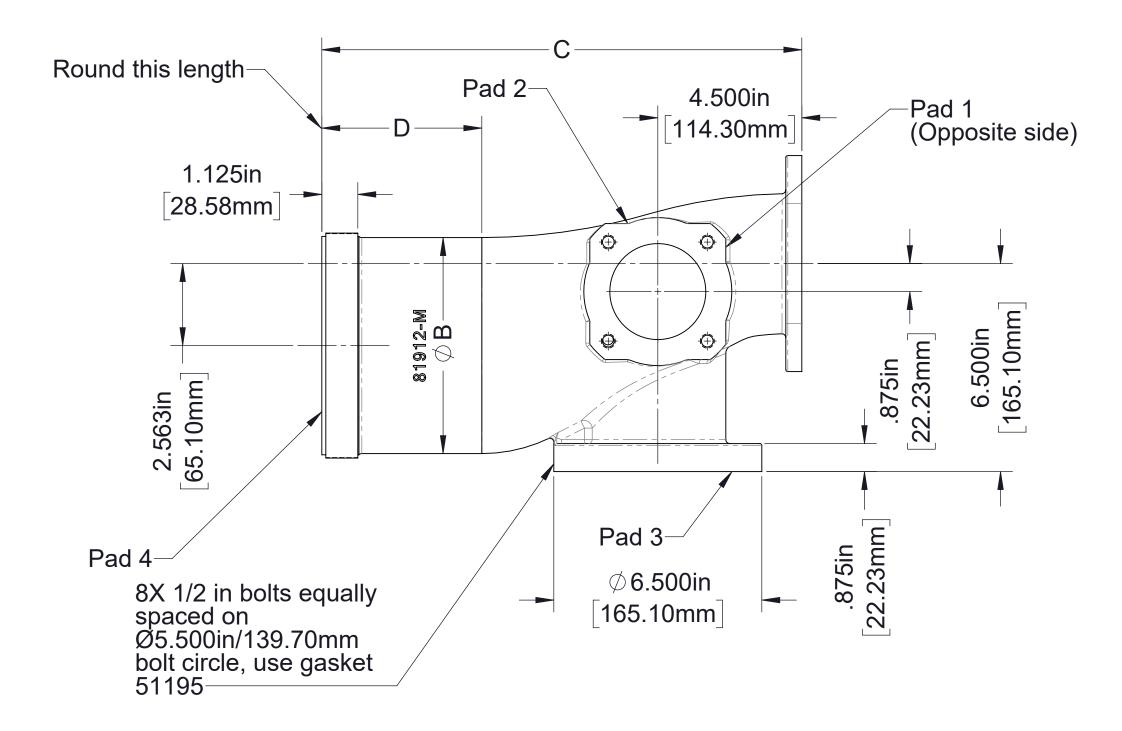
Part No.	Thread Size
81835	4.5 in
81836	5 in
81837	6 in
81838	6 in

Part	Р	ad 1	F	Pad 2	F	Pad 3	F	Pad 4	P	ad 5	F	Pad 6	Thread		
Number	Machined	Install Auxiliary Fittings	Size	В	C										
81833	4-Bolt	Type 1	4-Bolt	Type 1	3.0 RV	Type 14	5.0 THD	Type 23	1	N/A		N/A	5 in	5.750/146.05	N/A
81835	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4- Bolt	Type 1	3.0 RV	Type 14	4.5 THD	N/A	4.5 in	5.750/146.05 1	15.000/381.00
81836	4-Bolt	Type 1	3.0 RV	Type 14	5.0 THD	Type 23	5 in	5.750/146.05 1	15.000/381.00						
81837	4-Bolt	Type 1	3.0 RV	Type 14	6.0 THD	Type 13	6 in	6.750/171.45 1	15.000/381.00						
81838	4-Bolt	Type 1	3.0 RV	Type 14	6.0 THD	Type 13	6 in	6.750/171.45 1	13.500/342.90						

- 1. Threads are furnished as follows:
 (4.5 in NH (5.75 in. O.D. X 4 T.P.I)
 (5 in NH (6.25 in. O.D. X 4 T.P.I)
 (6 in NH (7.031 in. O.D. X 4 T.P.I)
 2. Other threads are available by special order with different part numbers

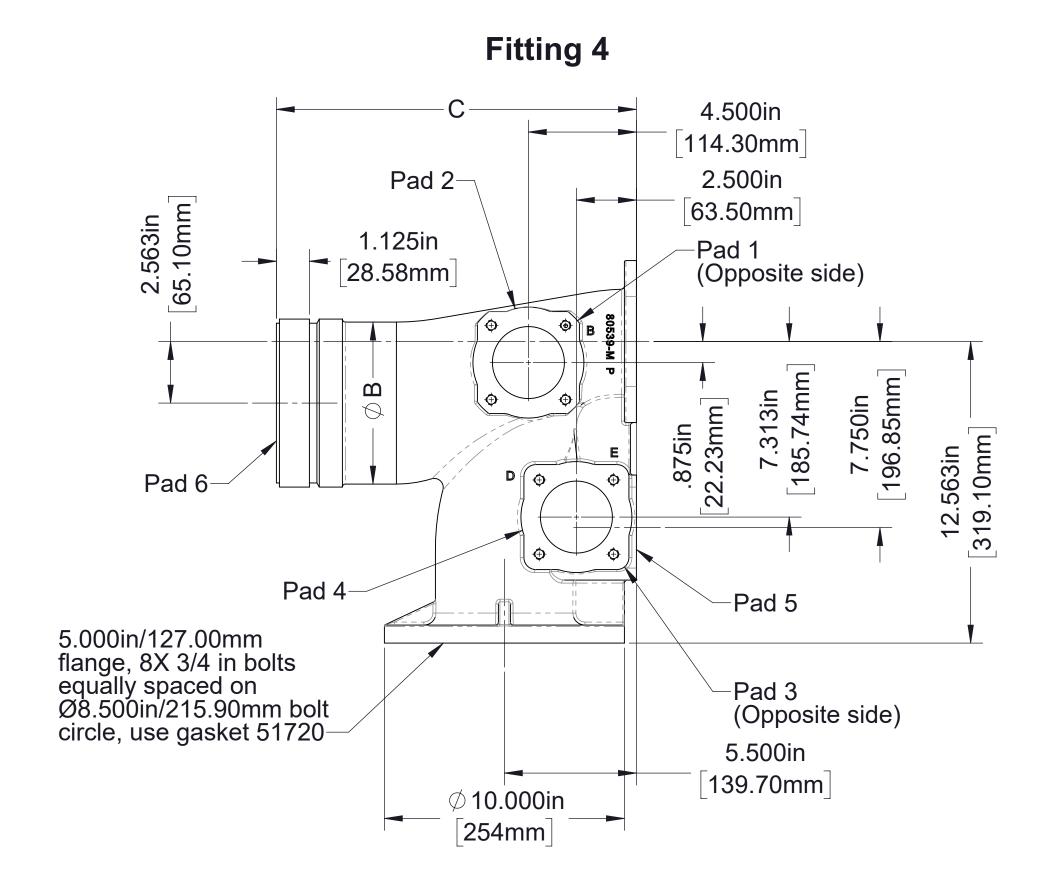
- applying.
 3. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 4. See page 3 for flange dimensions and side pad details.
 5. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Fitting 3



Part Number	Thread Size
81912	6 in
81913	5 in
*81914	6 in

*Available in iron only



Part Number	Thread Size
*81841	6 in
81844	6 in

*Available in iron only

	Pad	1	Pad	2	Pad	3	Pac	14	Pad	5	Pad	6				
Part Number	Machined	Install Auxiliary Fittings	Thread Size	В	С	D										
81912	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 THD	Type 13	N/A	4	N/A	1	6 in	6.750/171.45	15.000/381.00	5.000/127.00
81913	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	5.0 THD	Type 23	N/A	4	N/A	1	5 in	5.750/146.05	13.500/342.90	3.500/88.90
81914	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 THD	Type 13	N/A	A	N/A	1	6 in	6.750/171.45	13.500/342.90	3.500/88.90
81841	4-Bolt	Type 1	3.0 RV	Type 14	6.0 THD	Type 13	6 in	6.750/171.45	13.500/342.90	N/A						
81844	4-Bolt	Type 1	3.0 RV	Type 14	6.0 THD	Type 13	6 in	6.750/171.45	15.000/381.00	N/A						

Threads are furnished as follows:
 (5 in NH (6.25 in O.D. X 4 T.P.I.)
 (6 in NH (7.031 in. O.D. X 4 T.P.I.)
 Other threads are available by special order with different part

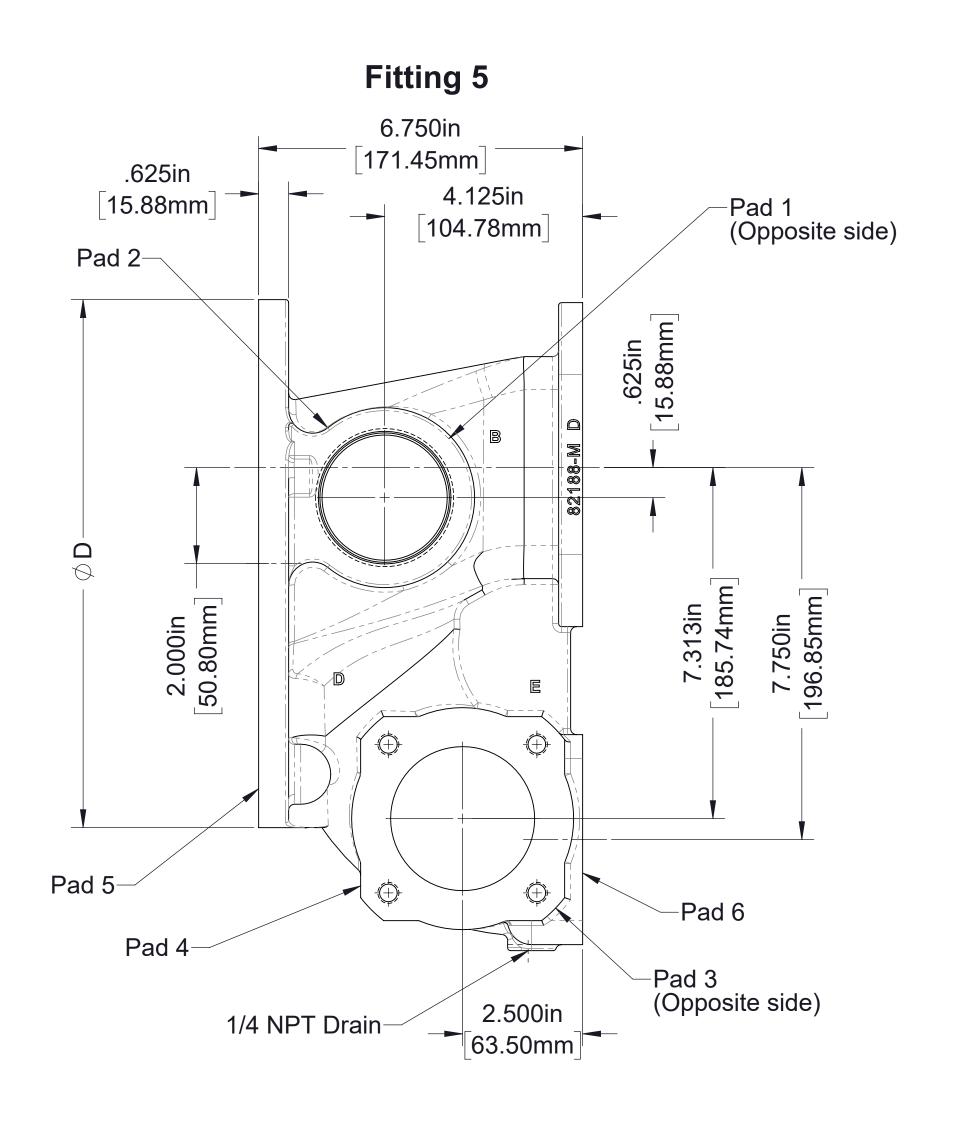
numbers applying.

3. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.

4. See page 3 for flange dimensions and side pad details.

5. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section1 - Threaded Intake Fittings

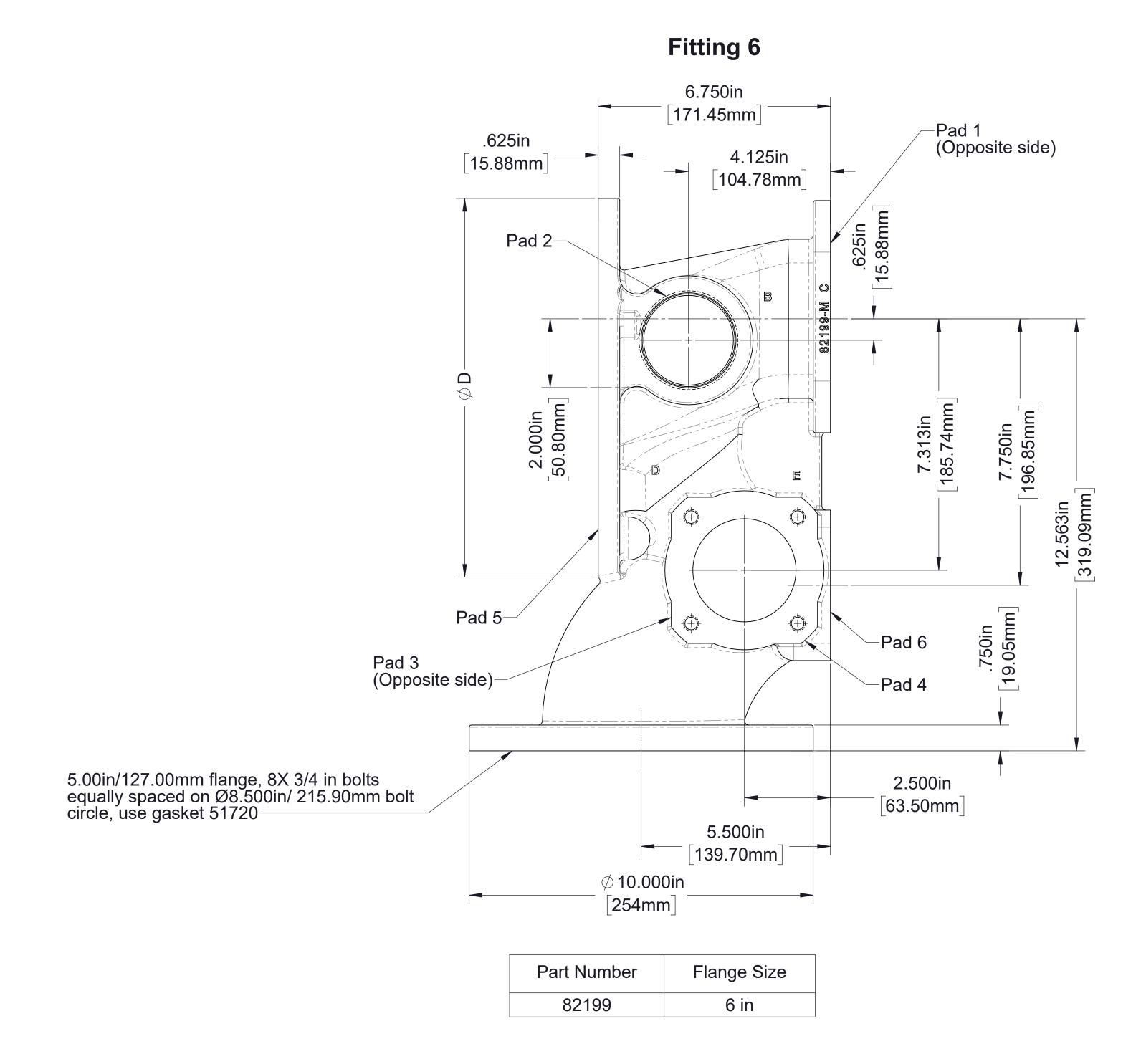


Part Number	Flange Size
82188	6 in

Dort	Р	ad 1	Р	ad 2	F	Pad 3	F	Pad 4		Pad 5	F	Pad 6					
Part Number	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Flange Size	D	BC	Bolts	Gasket
82188	2-1/2 NPT	Type 2	2-1/2 NPT	Type 2	4-Bolt	Type 1	4-Bolt	Type 1	6.0 FLNG	Type 17	3.0 RV	Type 14	6 in	Ø11.000/279.40	0 9.500/241.30	8X 3/4 in	51719

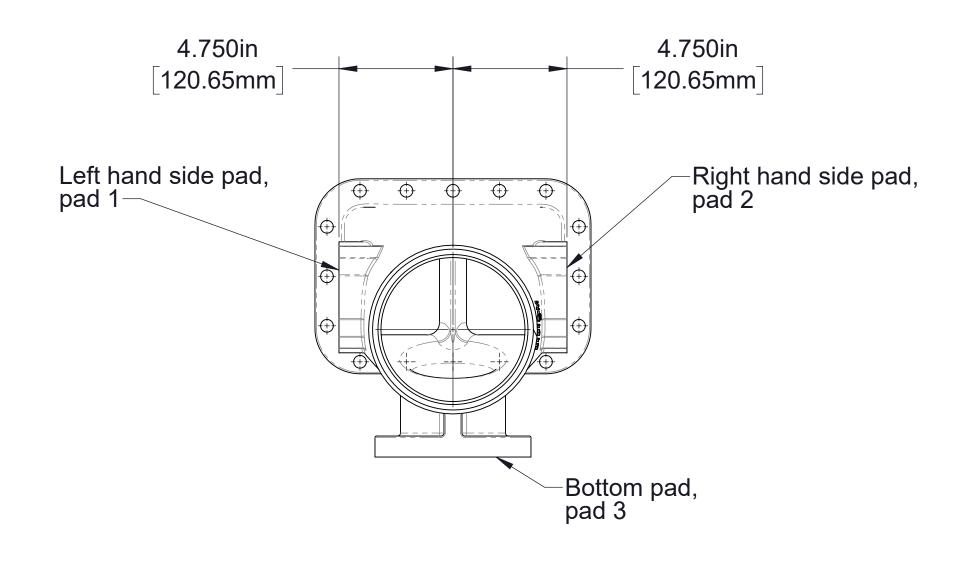
Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
2. See page 3 for flange dimensions and side pad details.
3. See drawing DPL82088 for auxiliary which may be installed on fitting pads.

Section 1 - Flanged Intake Fittings

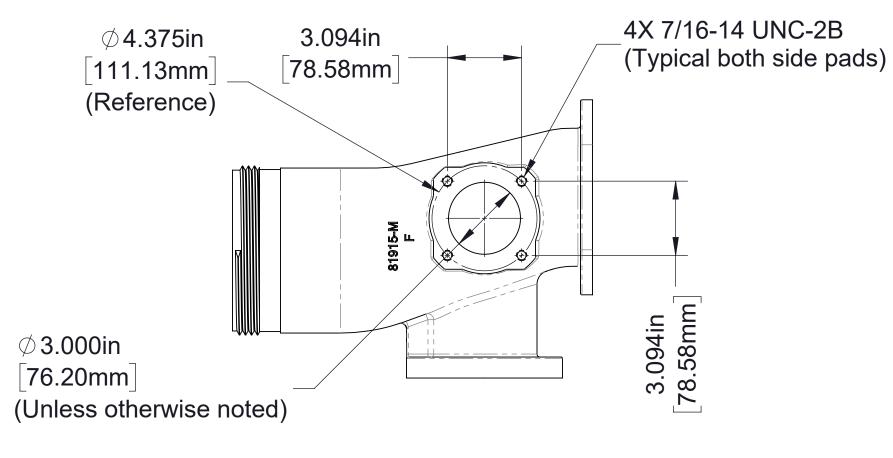


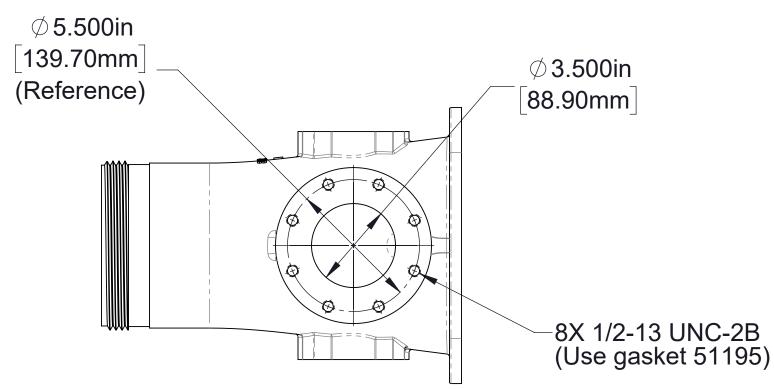
Port	Р	ad 1	F	ad 2	F	Pad 3	F	Pad 4		Pad 5	F	Pad 6					
Part Number	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Flange Size	D	BC	Bolts	Gasket
82199	2-1/2 NPT	Type 2	2-1/2 NPT	Type 2	4-Bolt	Type 1	4-Bolt	Type 1	6.0 FLNG	Type 17	3.0 RV	Type 14	6 in	Ø11.000/279.40	9.500/241.30	8X 3/4 in	51719

Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
2. See page 3 for flange dimensions and side pad details.
3. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

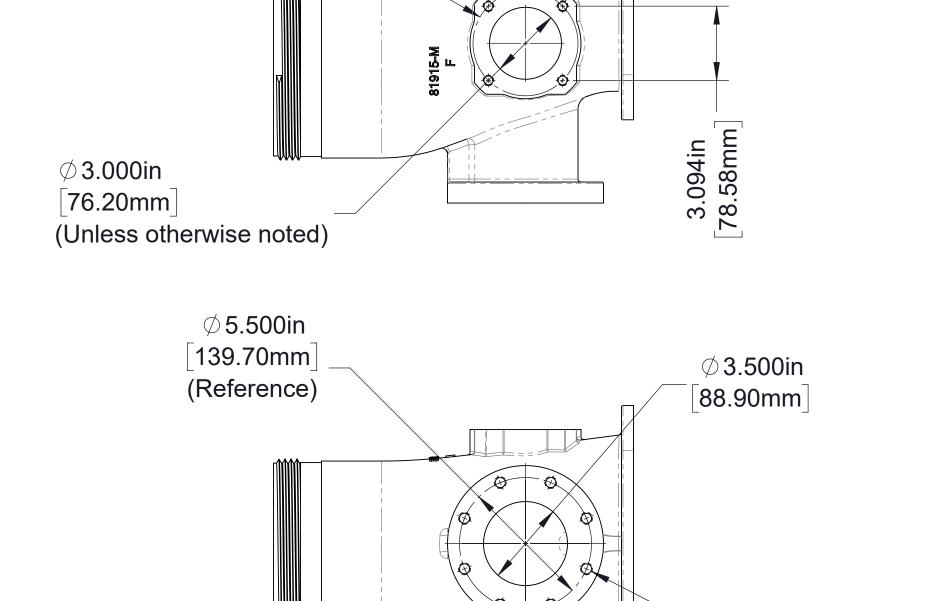


1. Specify flanges, fittings or manifolds from drawing DPL82088 to be attached to pads 1, 2 and 3.

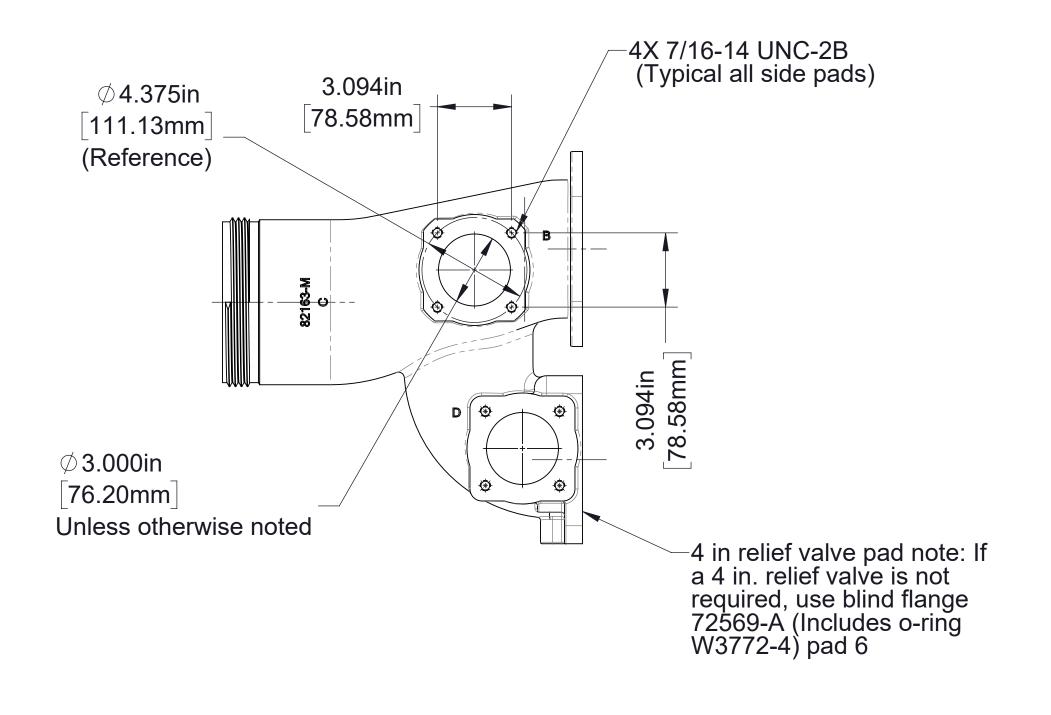


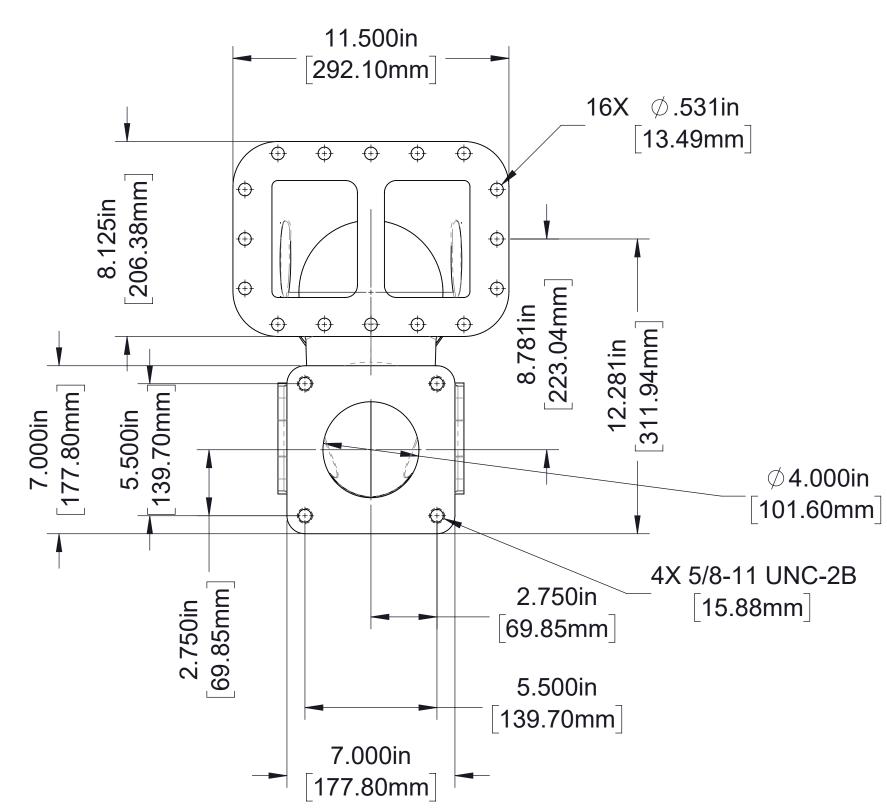


Flange Dimensions and Side Pad Details for Fittings without Relief Valve Pad



4.750in 4.750in 120.65mm 120.65mm Upper left hand side pad, pad 1— \oplus \oplus \oplus \oplus \oplus -Upper right hand side pad, pad 2 Lower left hand side pad, pad 3— Lower right hand side pad, 3.875in 3.875in 98.43mm 98.43mm





11.500in

292.10mm

 \oplus

 \emptyset 6.500in

[165.10mm]

 \oplus \oplus

 \oplus

8.125in 206.38mm

-16X Ø.531/13.49

7.531in 191.29mm

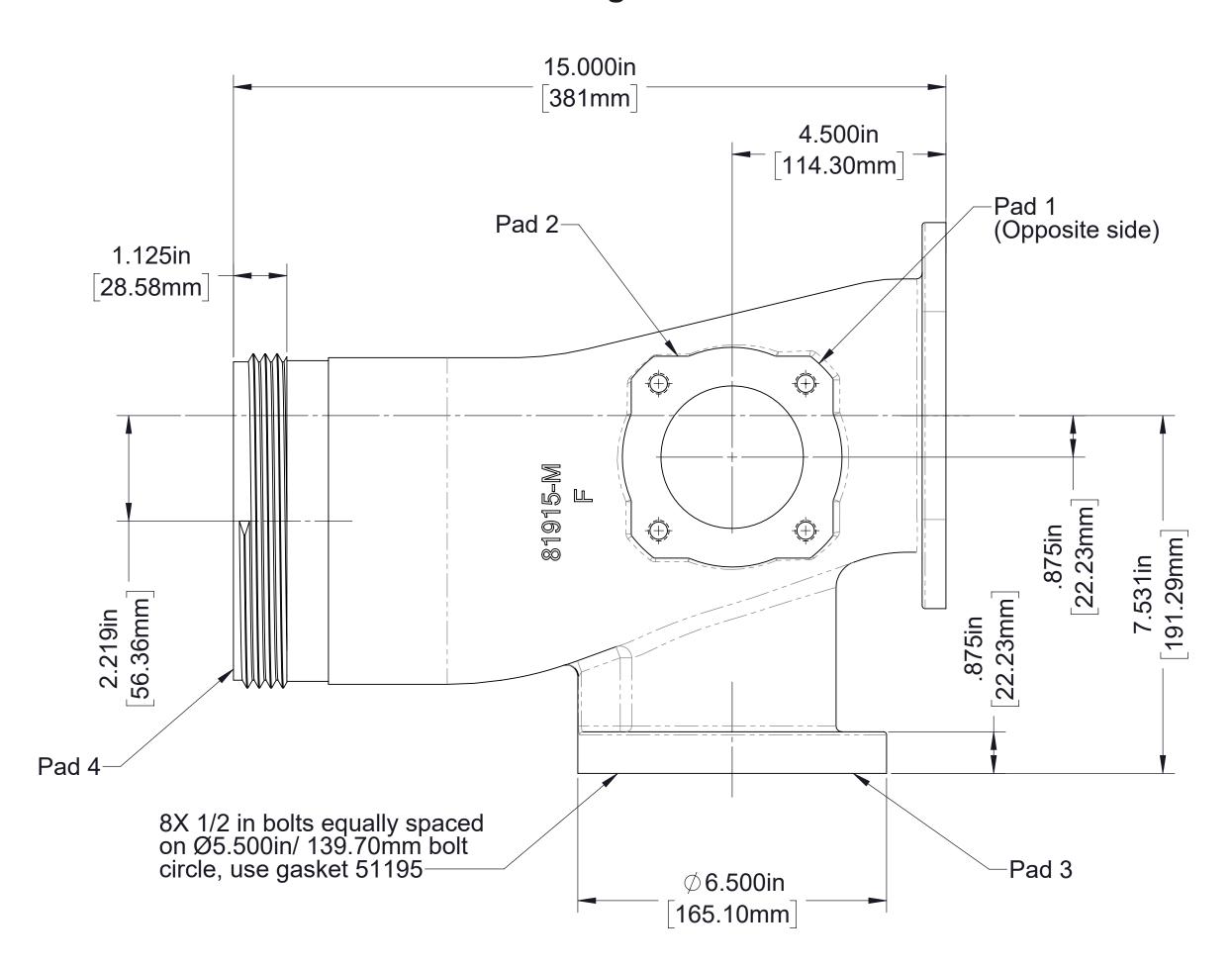
.875in [22.23mm]

Use gasket 6787 for fittings with this flange

Flange Dimensions and Side Pad Details for Fittings with 4 in Relief Valve Pad

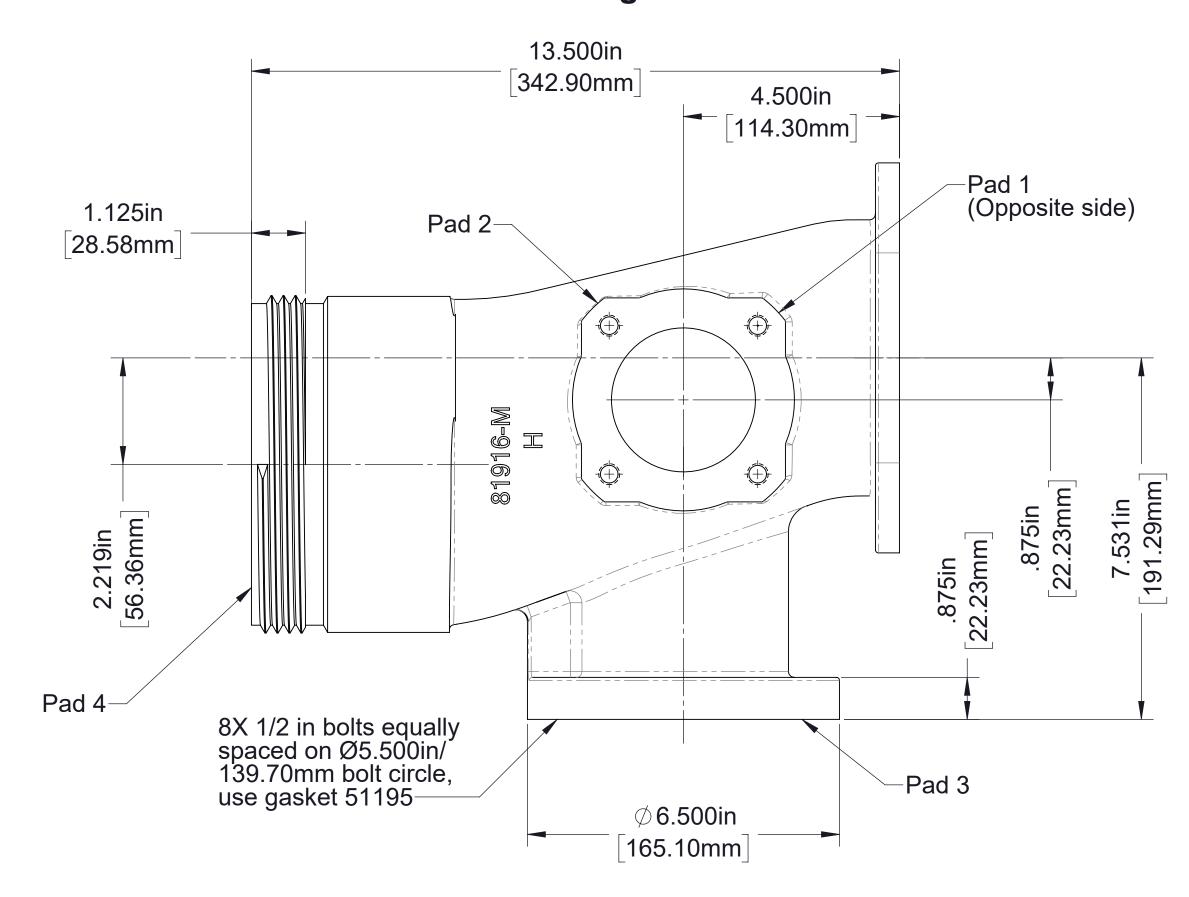
Note:
1. Specify flanges, fittings or manifolds from drawing DPL82088 to be attached to pads 1, 2 and 3.

Fitting 1



Part Number	Thread Size
81915	6 in
82767	5 in
·	·

Fitting 2



Part Number	Thread Size
*81916	6 in
82768	5 in
ΨΛ 'ΙΙΙ'	

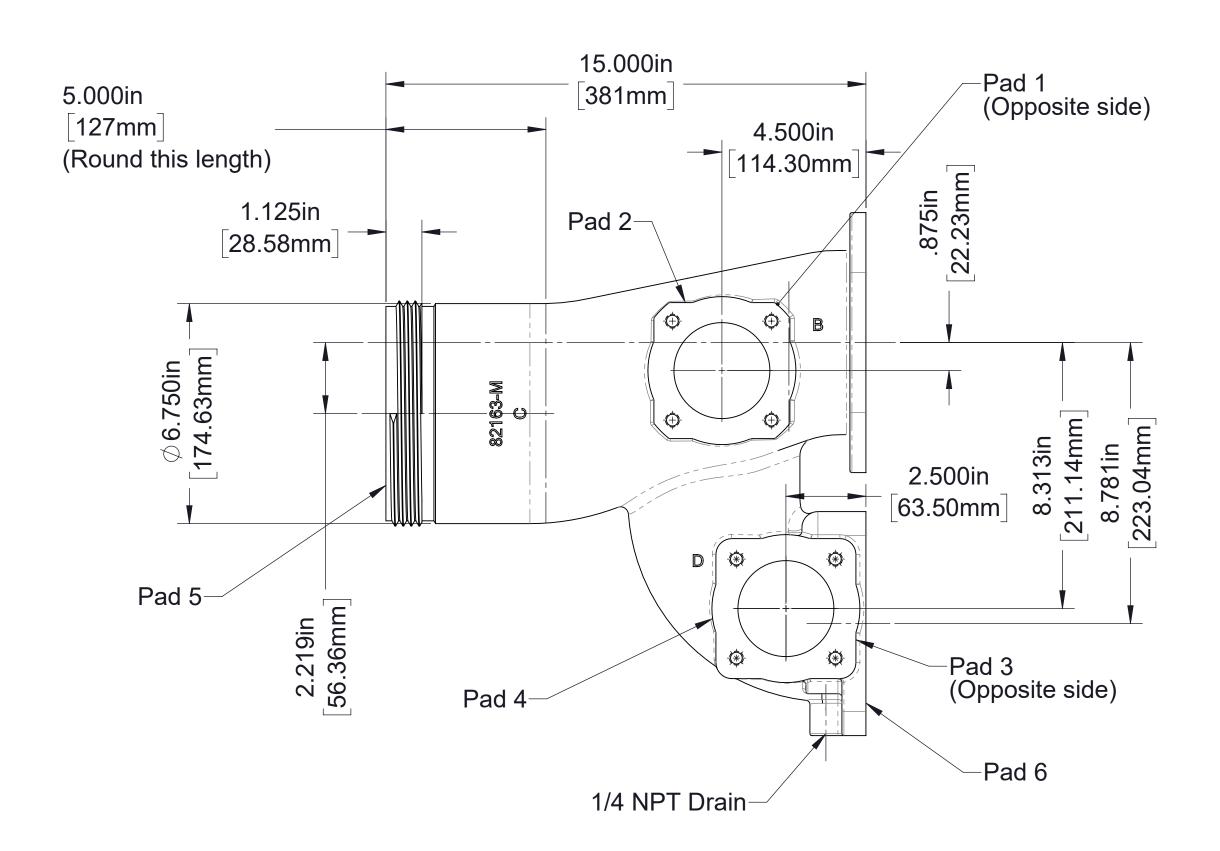
*Available in iron only

	Pac	l 1	Р	Pad 2		Pad 3		ad 4	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Thread Size
81915	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 THD	Type 13	6 in
81916	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 THD	Type 13	6 in
82767	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	5.0 THD	Type 23	5 in
82768	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	5.0 THD	Type 23	5 in

- Threads are furnished as follows:
 (5 in NH (6.25 In. O.D. X 4 T.P.I)
 (6 in NH (7.031 In. O.D. X 4 T.P.I)
 Other threads are available by special order with different part numbers applying.
 All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 See page 8 for flange dimensions and side pad details.
 See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section 2 - Threaded Intake Fitting

Fitting 4 Fitting 3



Thread Size
6 in

4.125in [104.78mm] (Round this length)	13.500in [342.90mm] 4.500in [114.30mm]	−Pad 1 (Opposite side)
1.125in [28.58mm]	Pad 2 uig 28:	7.
Ø 7.000in [177.80mm]		8.313in 8.313in 8.781in 223.04mm
2.219in 	Pad 4	Pad 3 (Opposite side)
	1/4 NPT Drain	─Pad 6

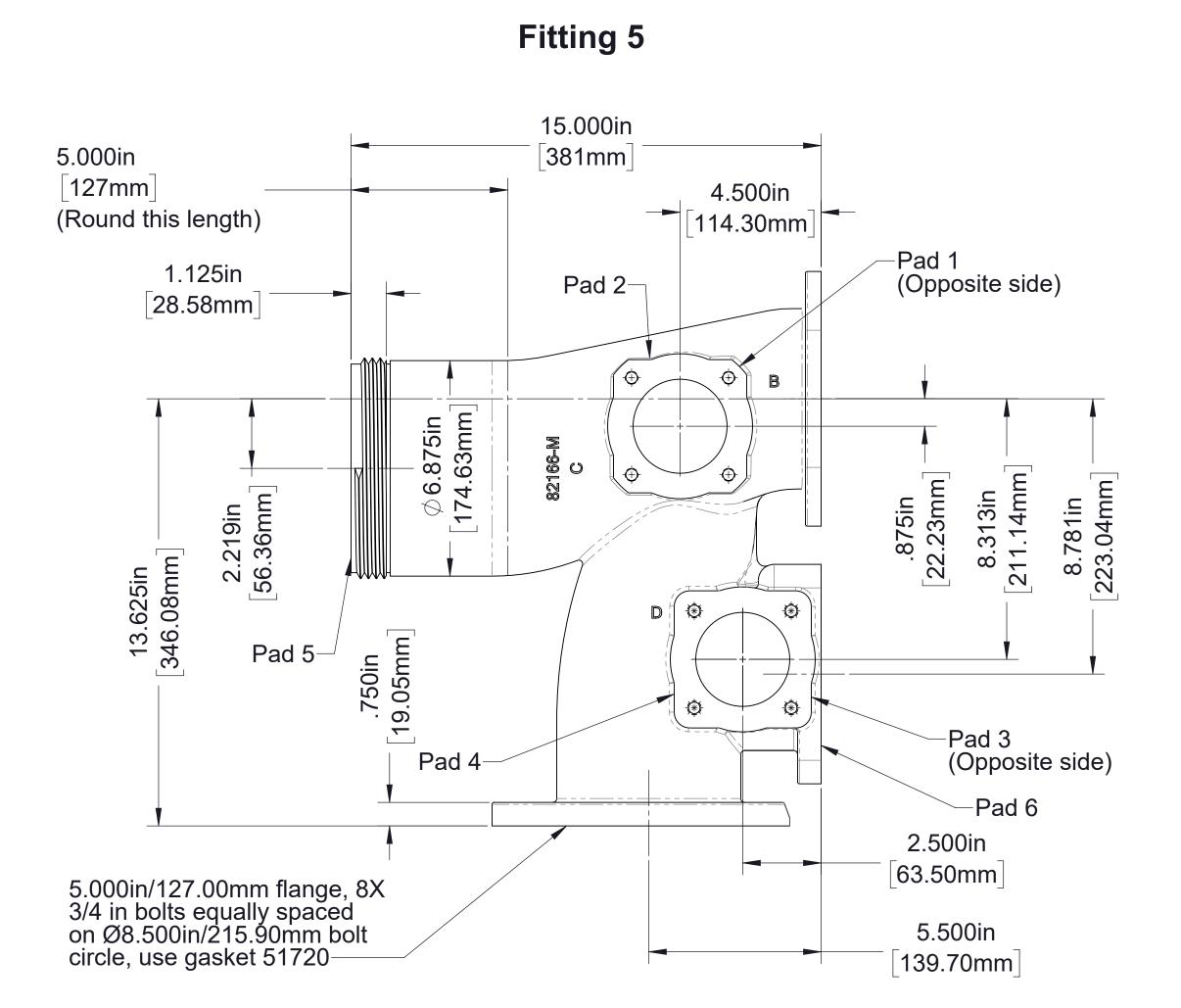
Part Number	Thread Size
82173	6 in

	Pad	1	Pa	ad 2	Pa	ad3	Pa	d 4	Pa	d 5	Pa	d 6	
Part Number	Machined	Install Auxiliary Fittings	Thread Size										
82163	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						
82173	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						

- Notes:
 Threads are furnished as follows:

 (6 in NH (7.031 in. O.D. X 4 T.P.I.)

 Other threads are available by special order with different part numbers applying.
 All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 See page 8 for flange dimensions and side pad details.
 See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

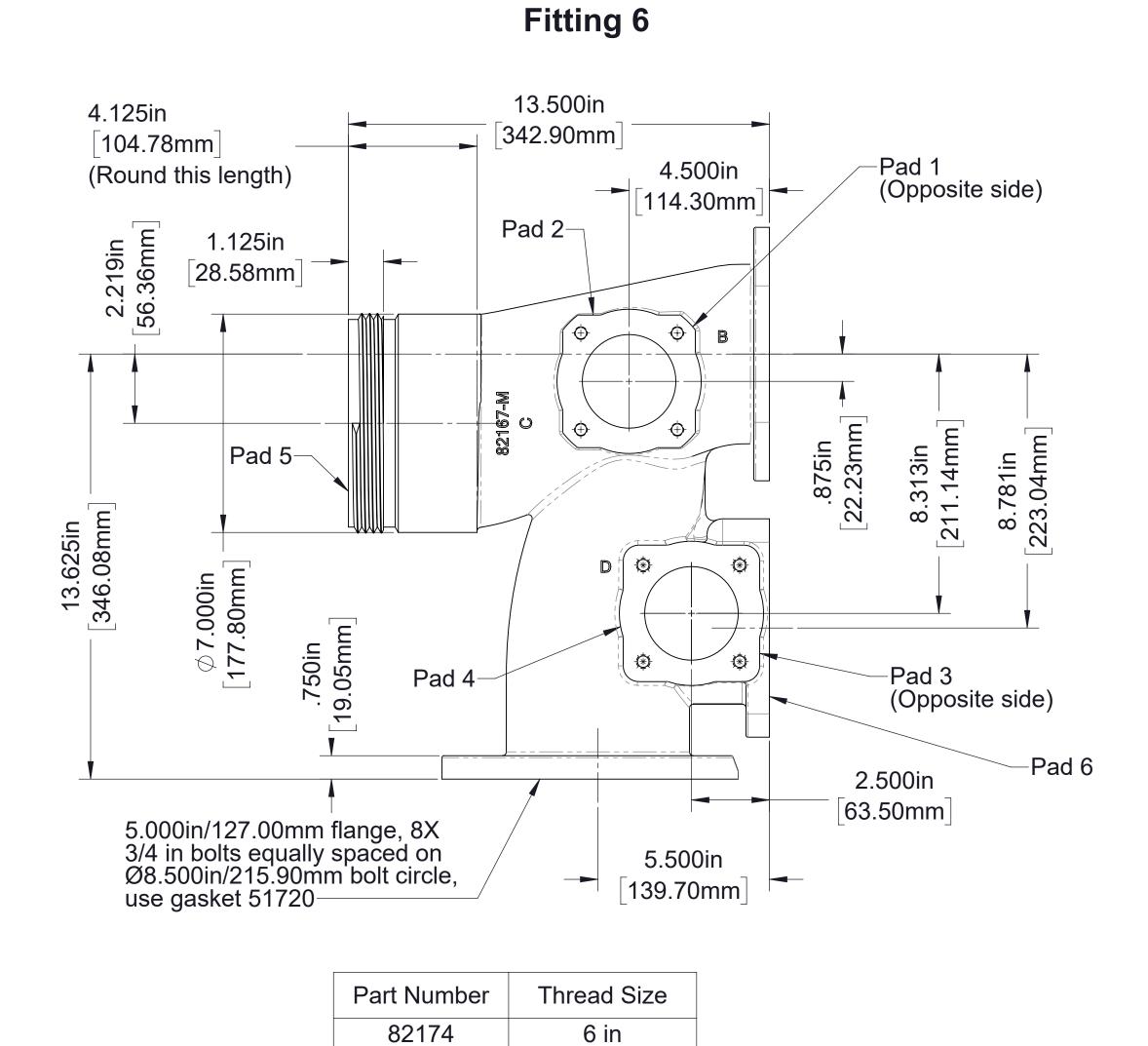


Part Number

82166

Thread Size

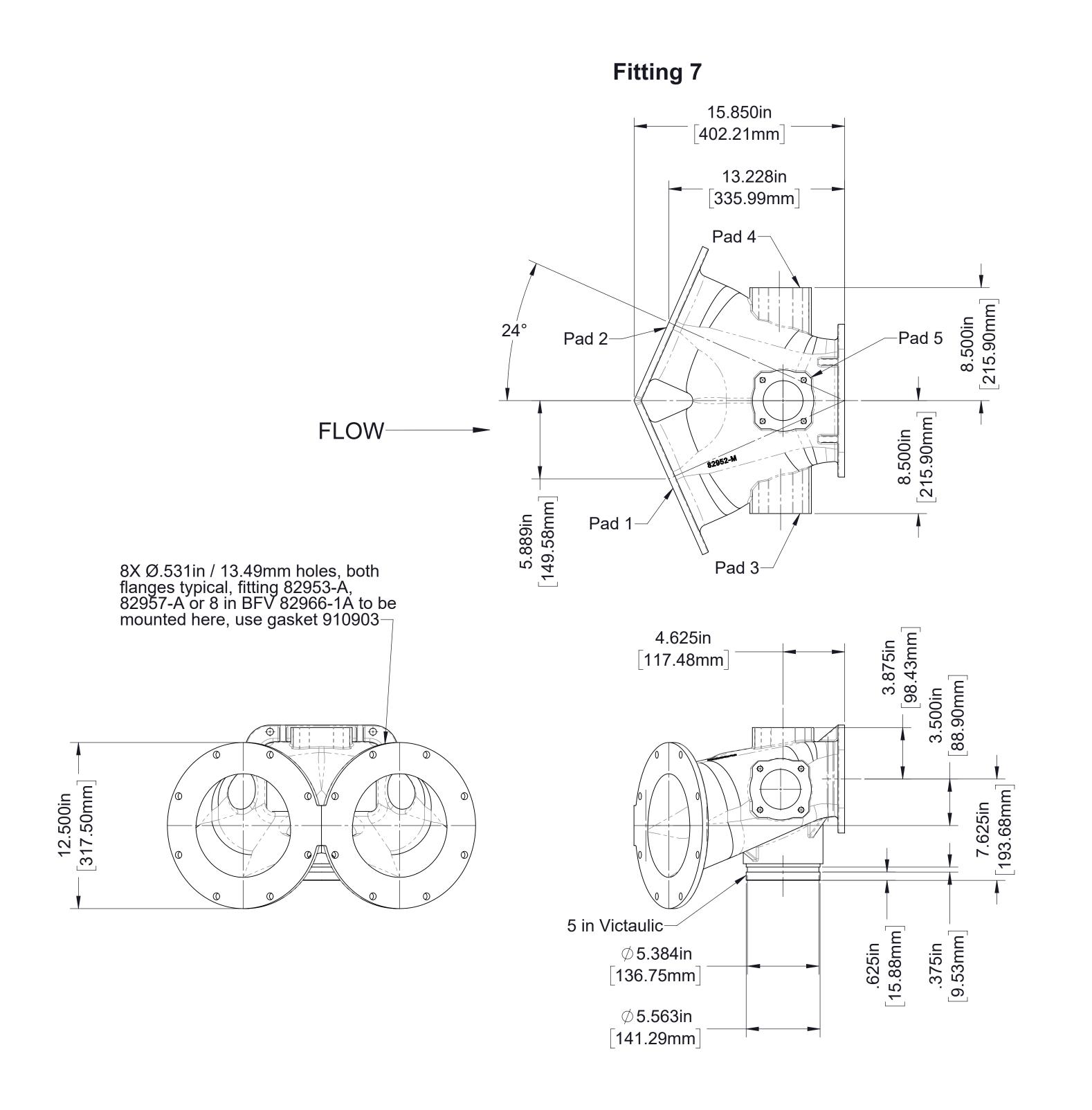
6 in



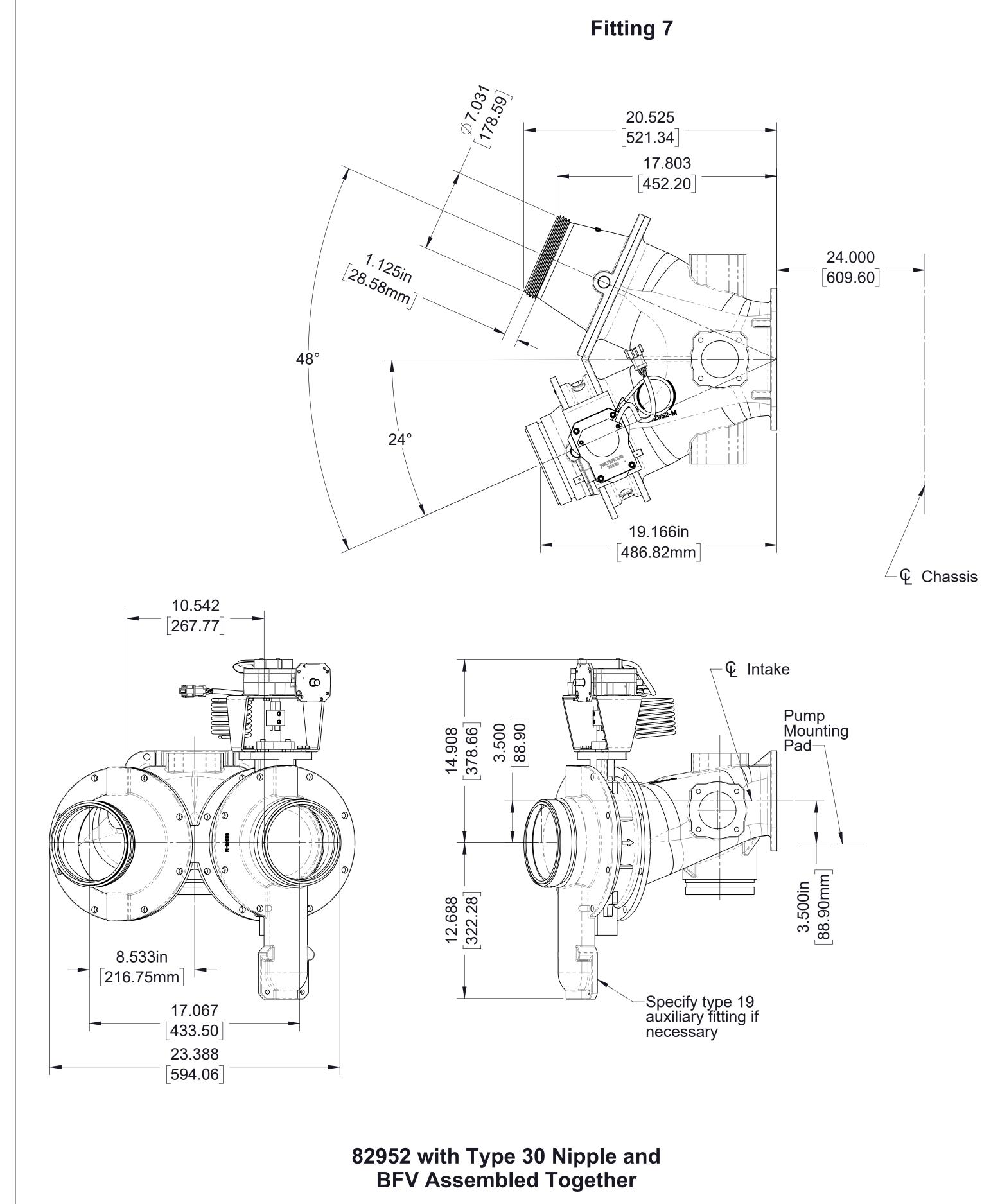
	Pac	1 1	Pa	ad 2	Pa	nd3	Pa	d 4	Pa	d 5	Pac	d 6	
Part Number	Machined	Install Auxiliary Fittings	Thread Size										
82166	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						
82174	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						

Notes:

- Threads are furnished as follows:
 (6 in NH (7.031 In. O.D. X 4 T.P.I)
 Other threads are available by special order with different part numbers
- applying.
 3. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 4. See page 8 for flange dimensions and side pad details.
 5. See drawing DPL82088 for auxiliary fittings which may be installed on fitting
- pads.



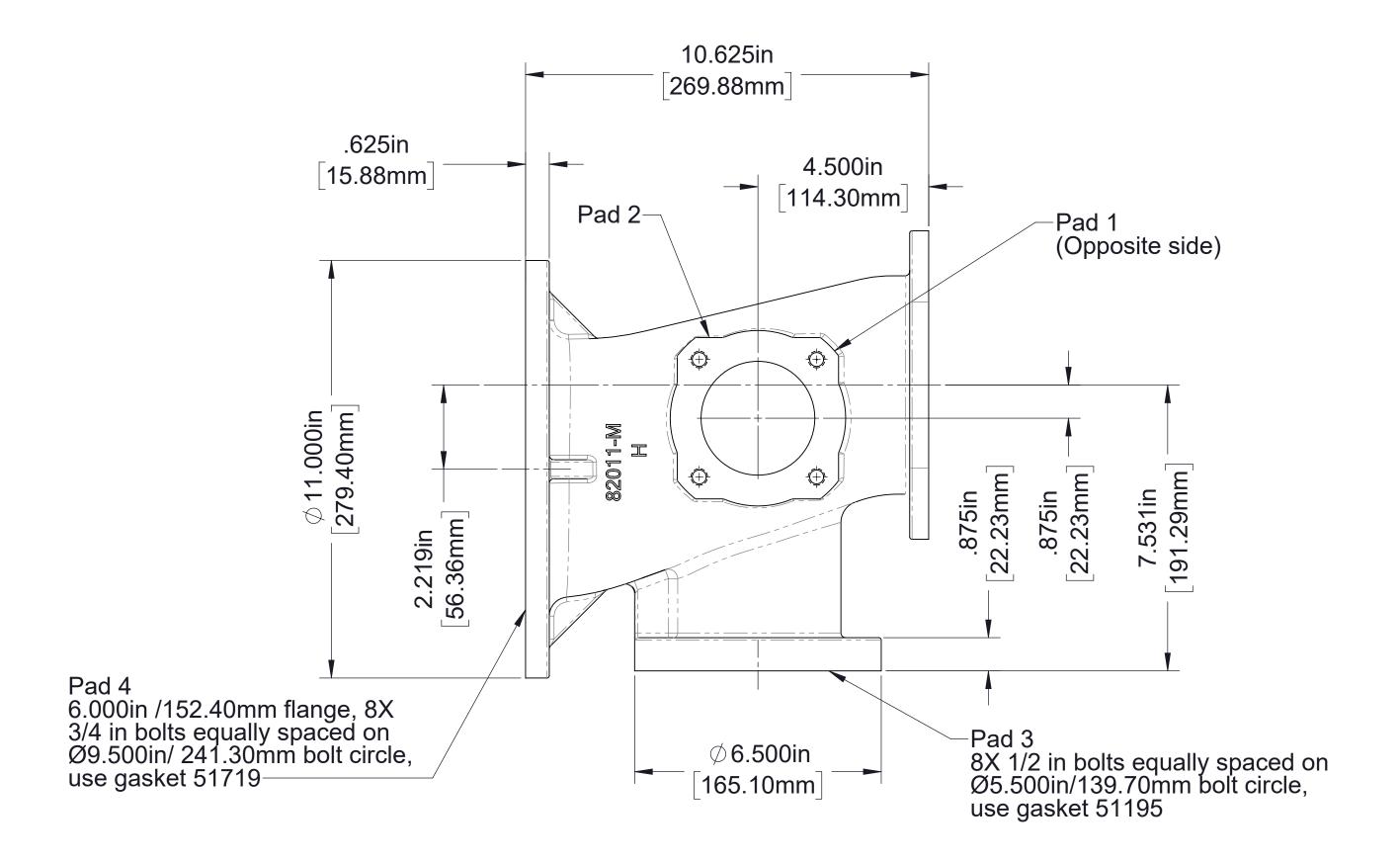
	Pad	1 1	Pad 2		Pad 3		Pad 4		Pad 5	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auciliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
82952	8 in ANSI	Type 30	8 in ANSI	Type 30	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1



- Notes:
 1. See page 8 for flange dimensions and side pad details.
 2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.
 3. See pages 19, 20 & 21 for butterfly valve handle kit, control panel and panel hole layout.

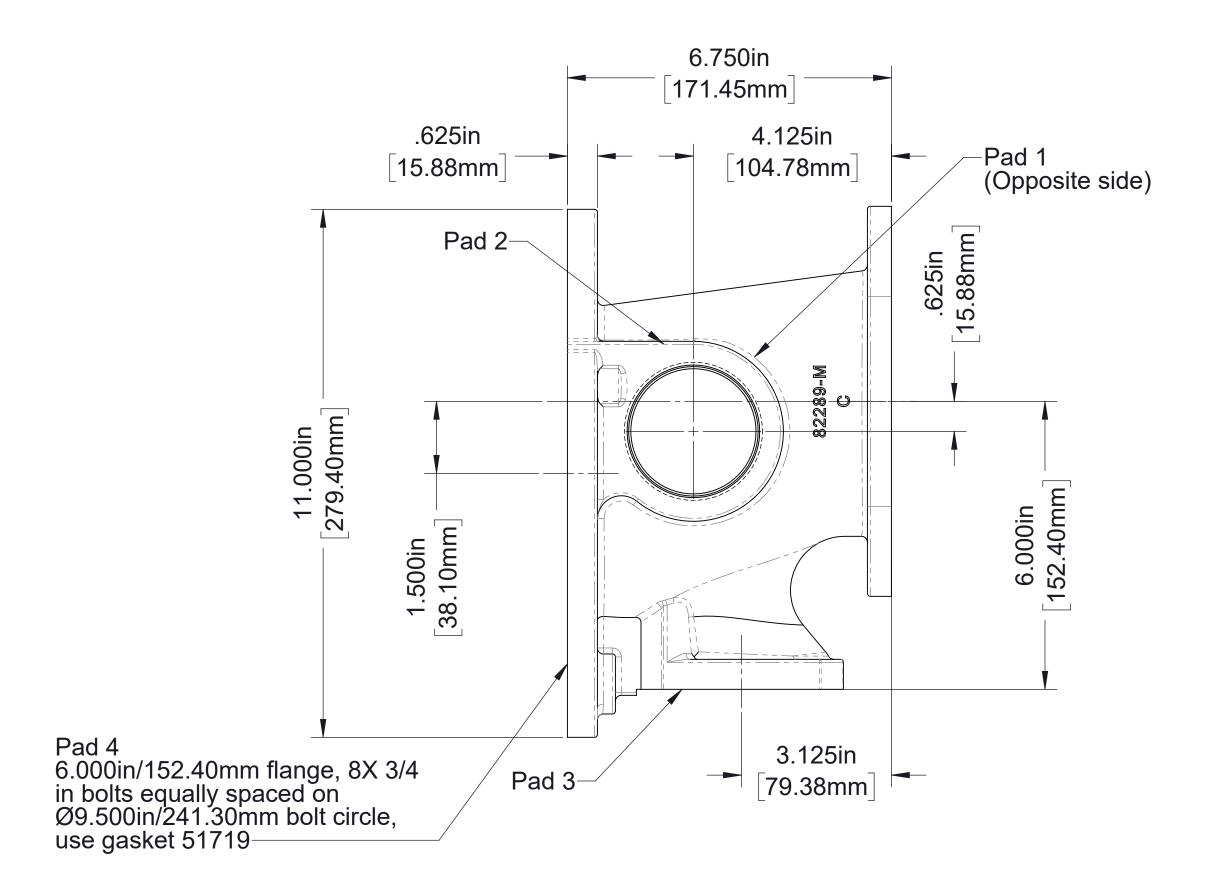
Section 2 - Pant Leg Intake Fitting

Fitting 8



Part Number	Flange Size
82011	6 in

F	itting	9
-		, –



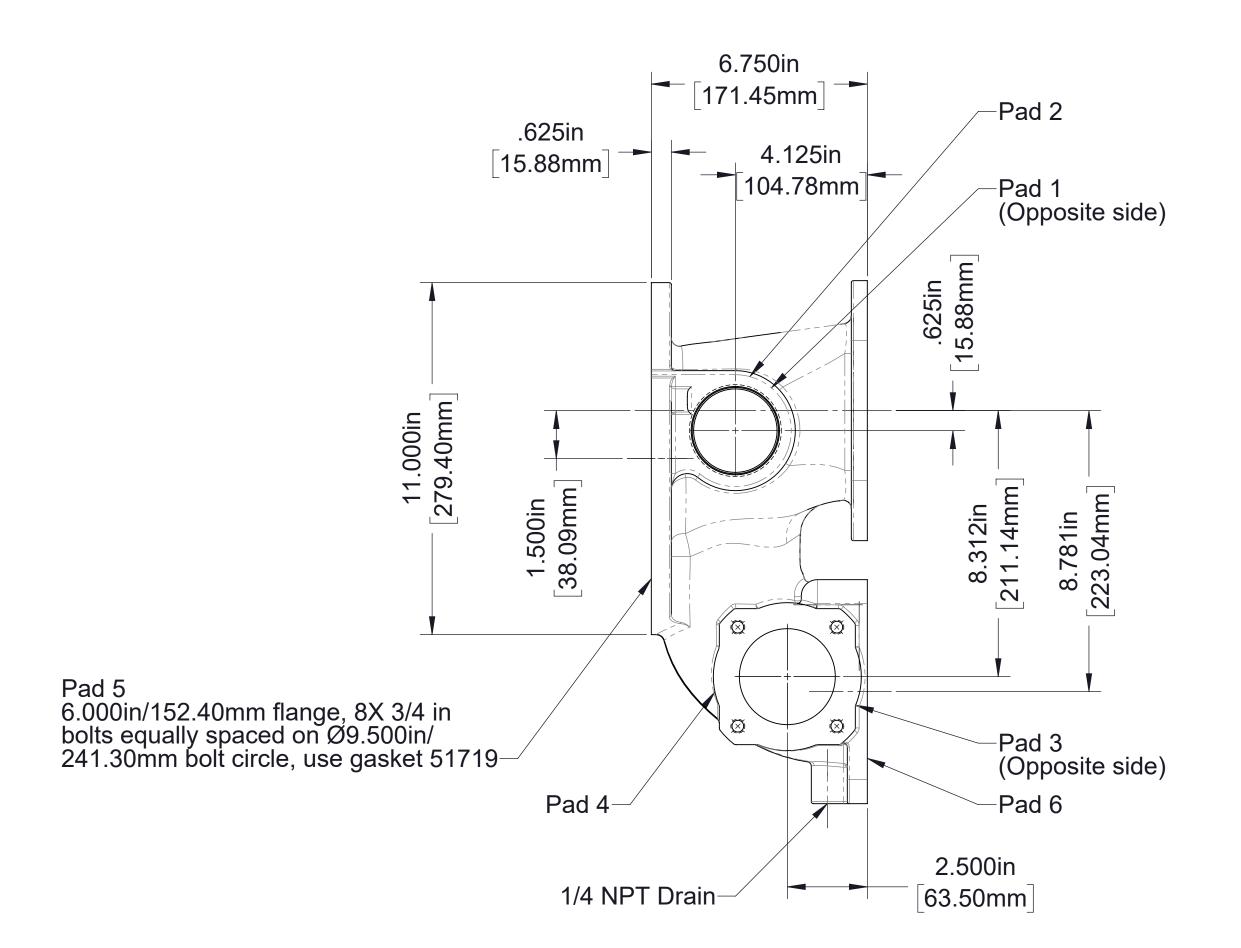
Part Number	Flange Size
82289	6 in

	Pac	1	1 Pad 2		Pad 3		Pad 4	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
82011	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 FLNG	Type 12
82289	2-1/2 NPT	Type 2	2-1/2 NPT	Type 2	4-Bolt	Type 1	6.0 FLNG	Type 17

- Notes:
 1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 2. See page 8 for flange dimensions and side pad details.
 3. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

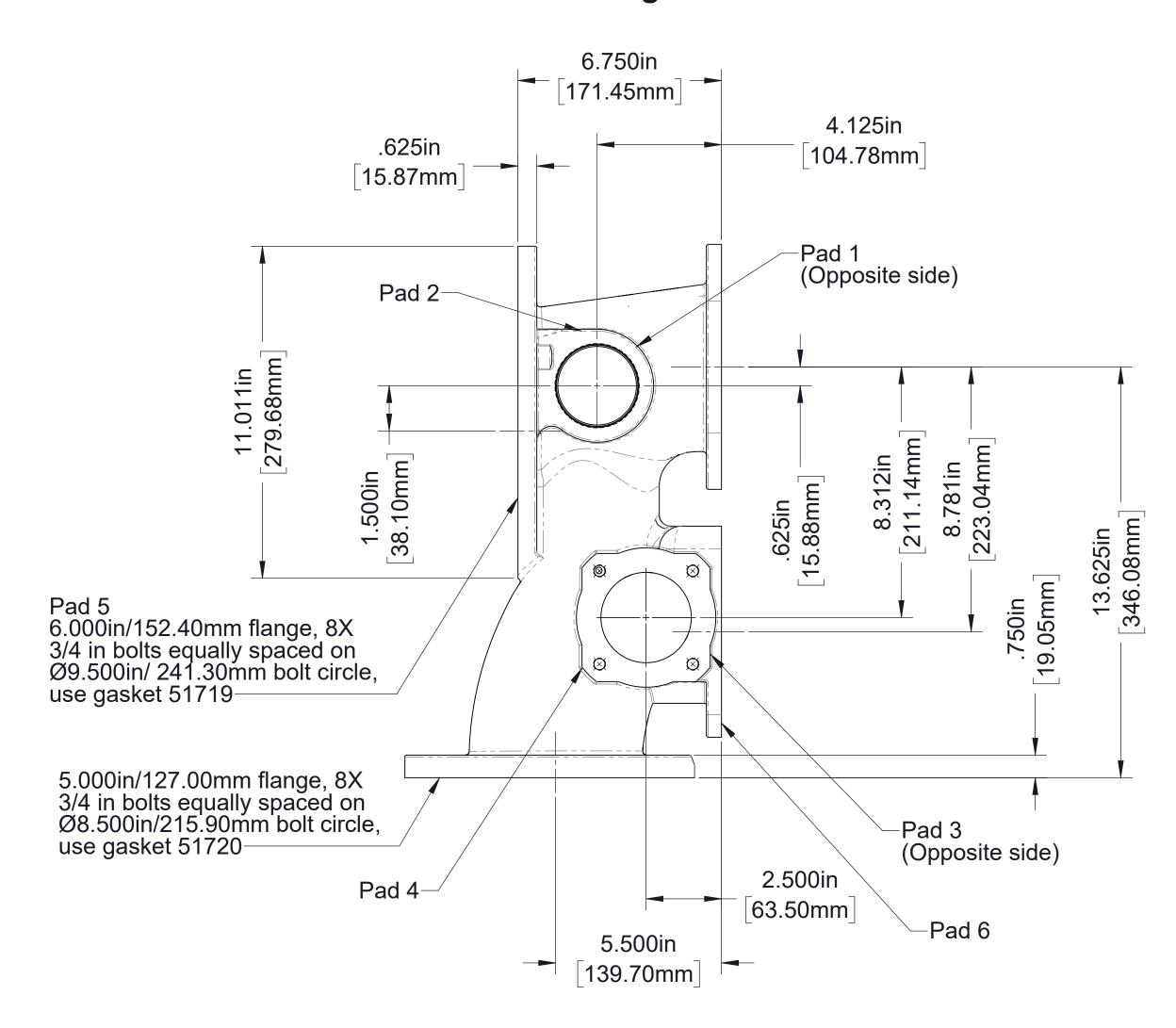
Section 2 - Flanged Intake Fitting

Fitting 10



Part Number	Flange Size
82301	6 in

Fitting 11

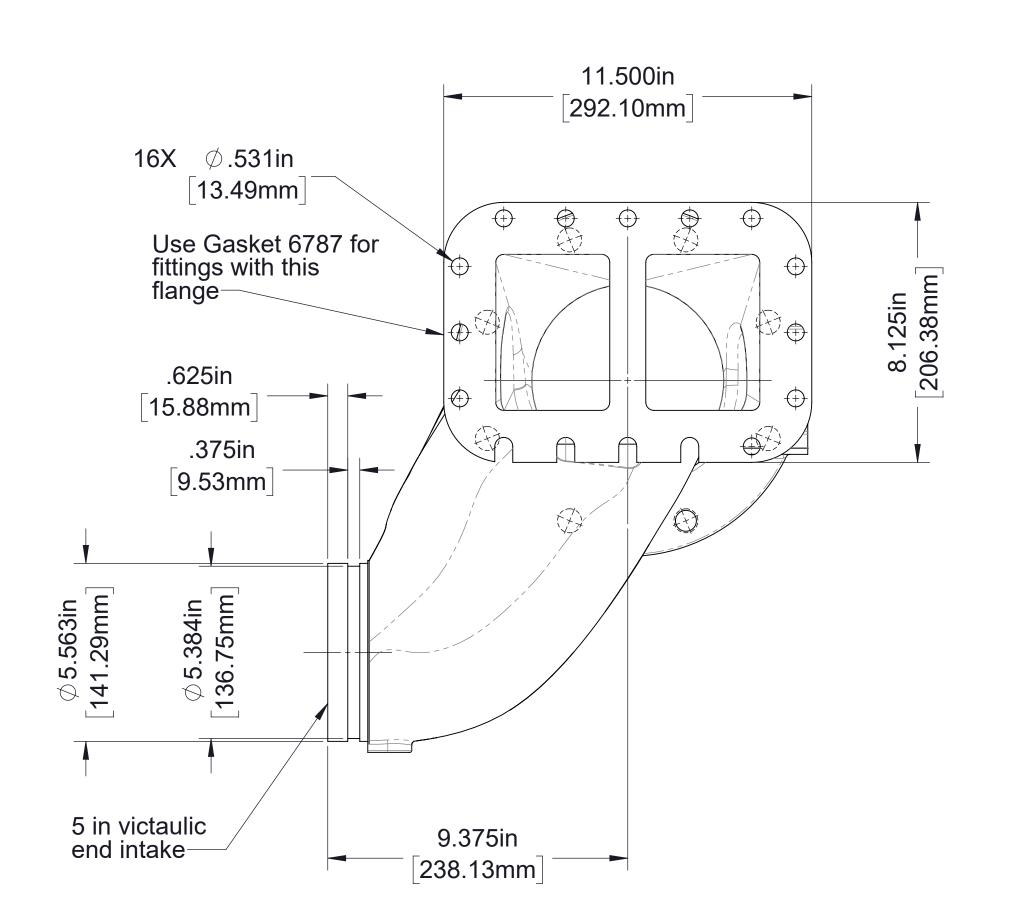


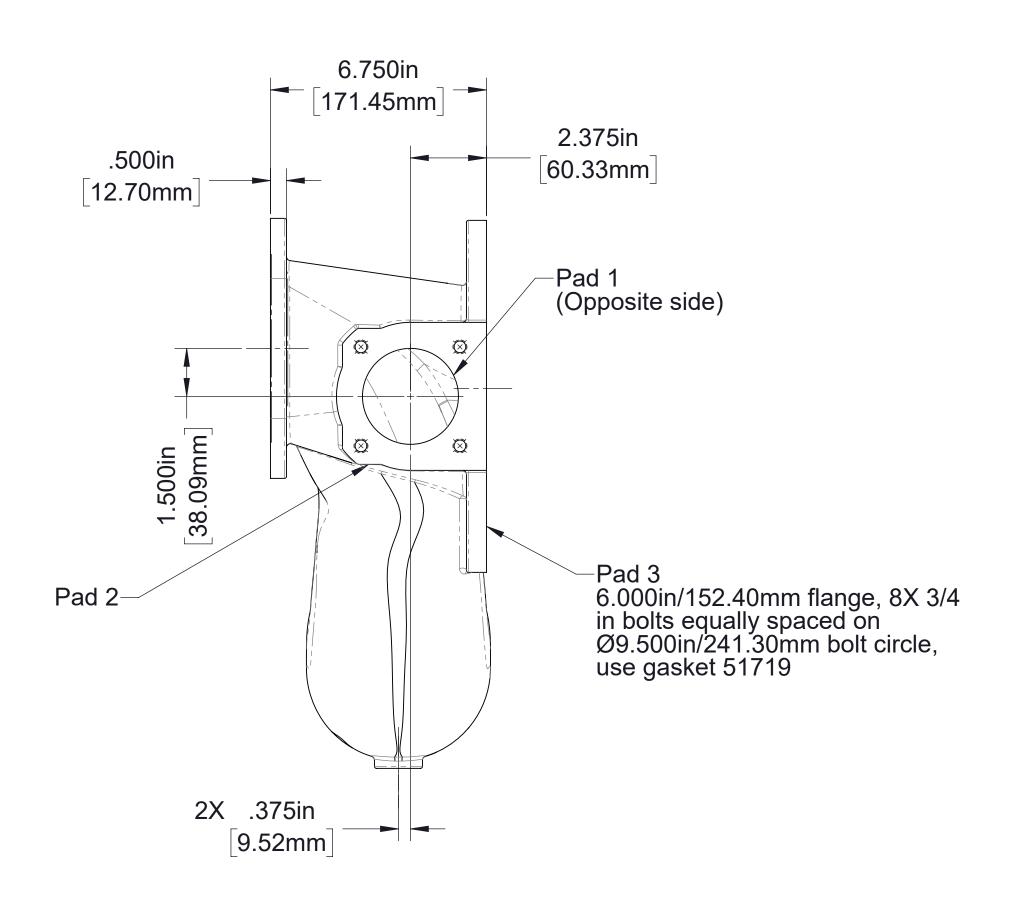
Part Number	Flange Size	
82302	6 in	

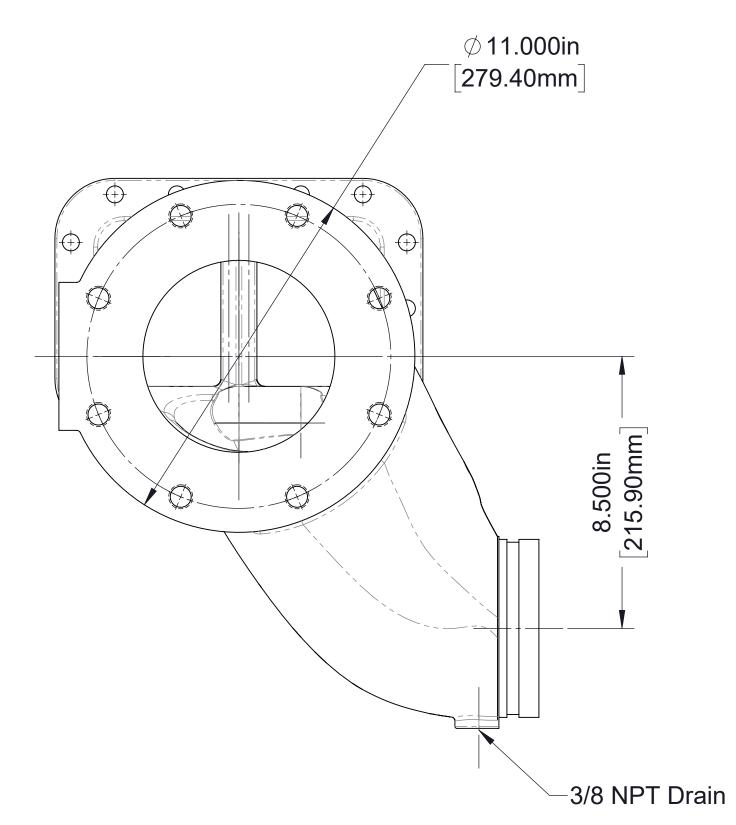
	Pa	d 1	Ра	d 2	Pac	13	Pa	d 4	Pac	d 5	Pac	d 6	- 1	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Flange Size	Material
82301	2-1/2 NPT	Type 2	2-1/2 NPT	Type 2	4-Bolt	Type 1	4-Bolt	Type 1	6.0 FLNG	Type 17	4.0 RV	Type 15	6 in	Iron Only
82302	2-1/2 NPT	Type 2	2-1/2 NPT	Type 2	4-Bolt	Type 1	4-Bolt	Type 1	6.0 FLNG	Type 17	4.0 RV	Type 15	6 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. See page 8 for flange dimensions and side pad details.
3. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Fitting 12





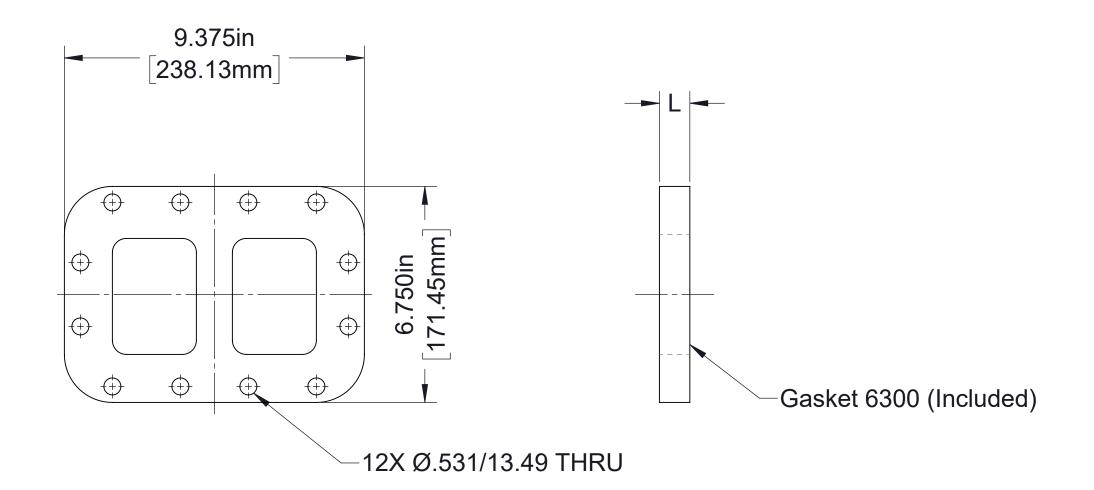


Part Number	Flange Size
83041	6 in

		Pad 1		Pad 2	ſ	Pad 3
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
83041	4-Bolt	Type 1	4-Bolt	Type 1	6.0 FLNG	Type 17

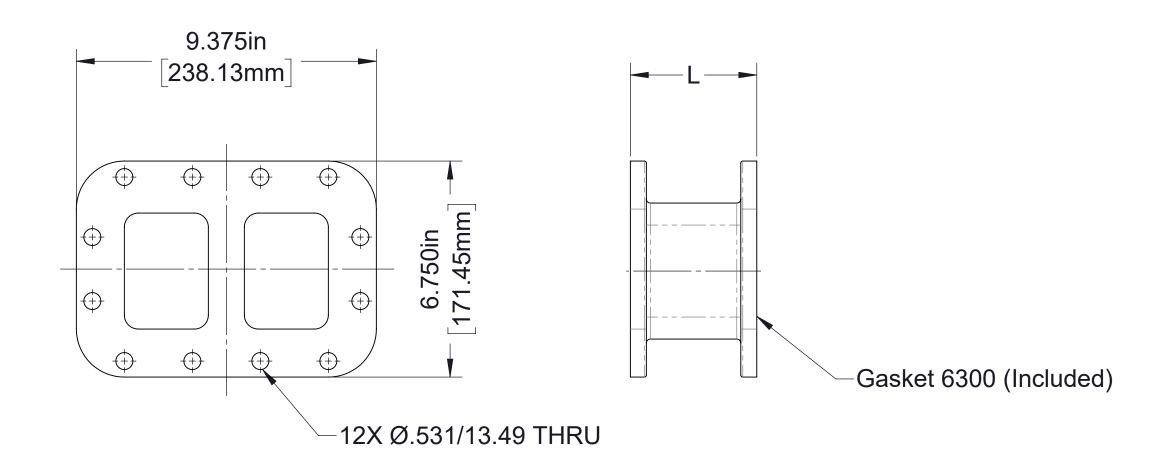
Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
2. See page 8 for flange dimensions and side pad details.
3. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section 2 - Flanged Intake Fitting



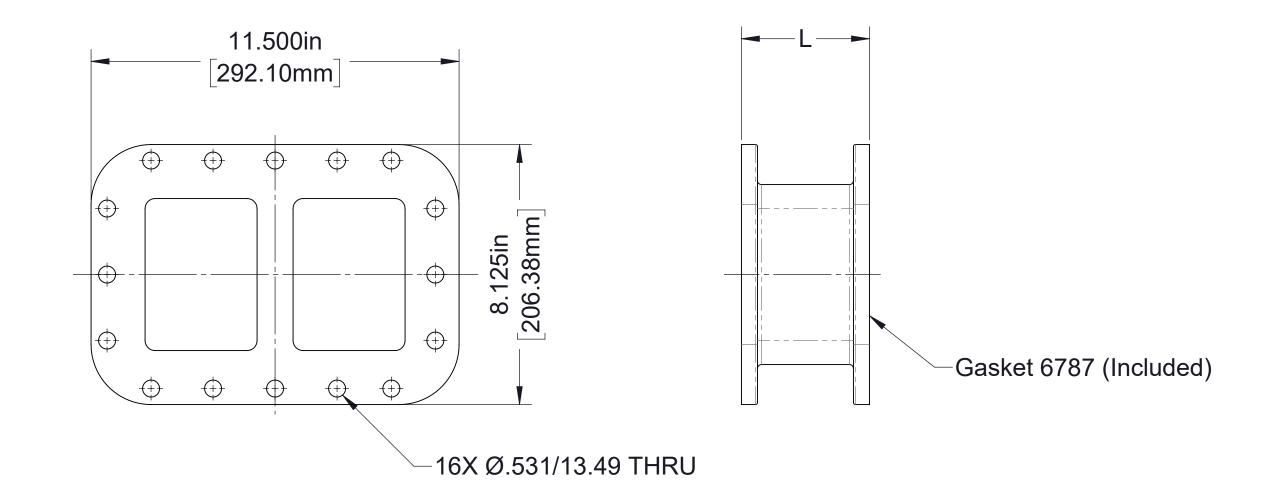
Part	L	Studs	Use With Relief
Number		Required	Valve Extension
5002-A	1.000/25.40	(4) 51268	61647-A

(Use with section 1 intake fittings on DPL81867)



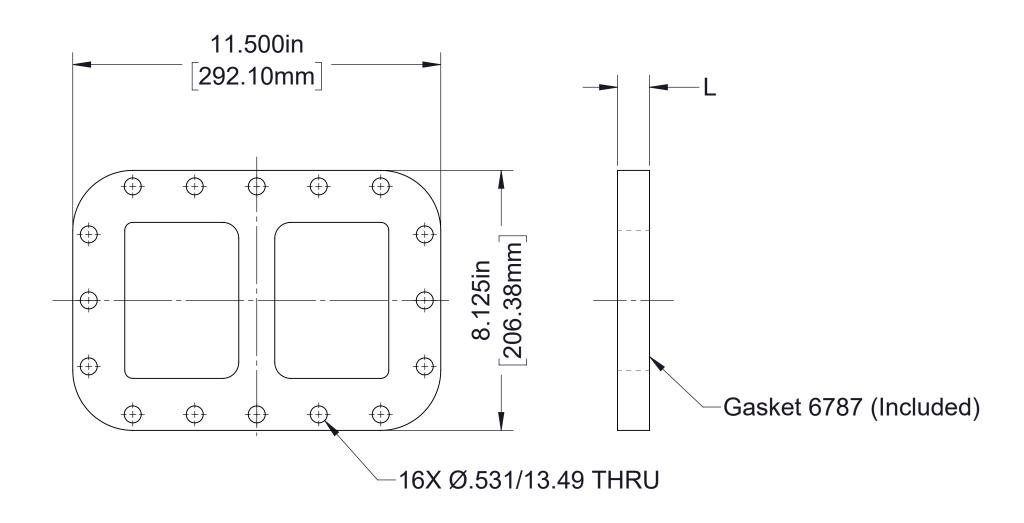
Part Number	L	Use With Relief Valve Extension
5005-A	4.000/101.60	61646-A

(Use with section 1 intake fittings on DPL81867)



Part Number	L
7251-A	4.000/101.60

(Use with section 2 intake fittings on DPL81867)



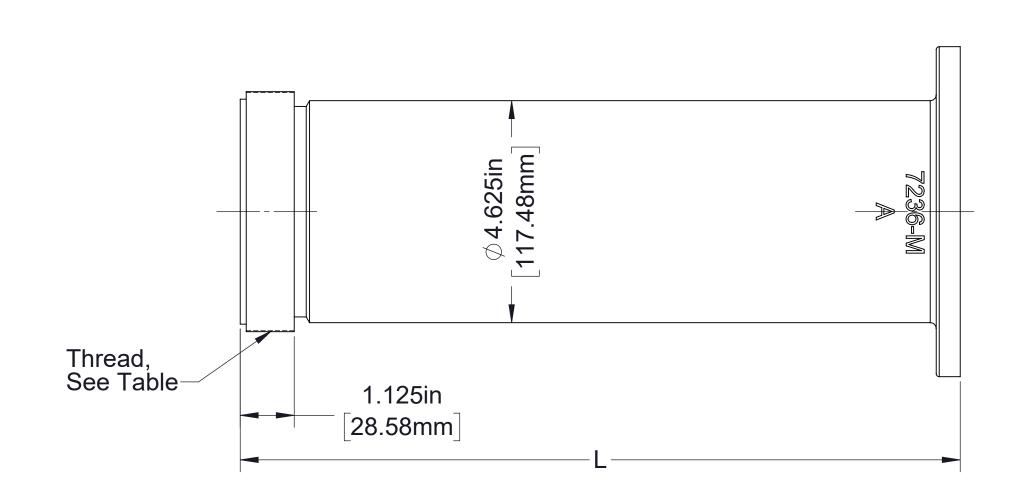
Part Number	L
73616-A	1.000/25.40

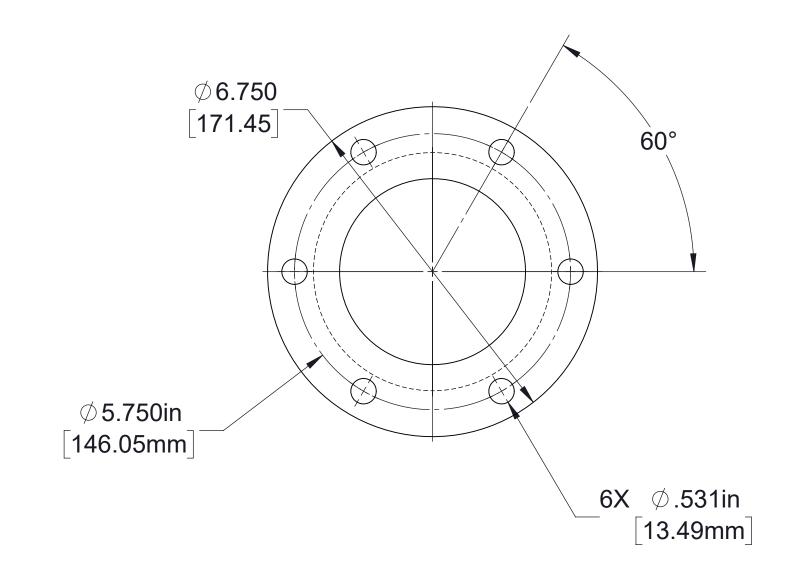
Spacer required when relief valve is mounted on pump, see Type 15 - fittings for 4 in relief valve pads DPL82088

Section 3 - CM and CS Pump Intake Extensions

Note: These fittings are used on CM, CMH, CMU, CMUH, CS, CSU, CSUH pumps models only

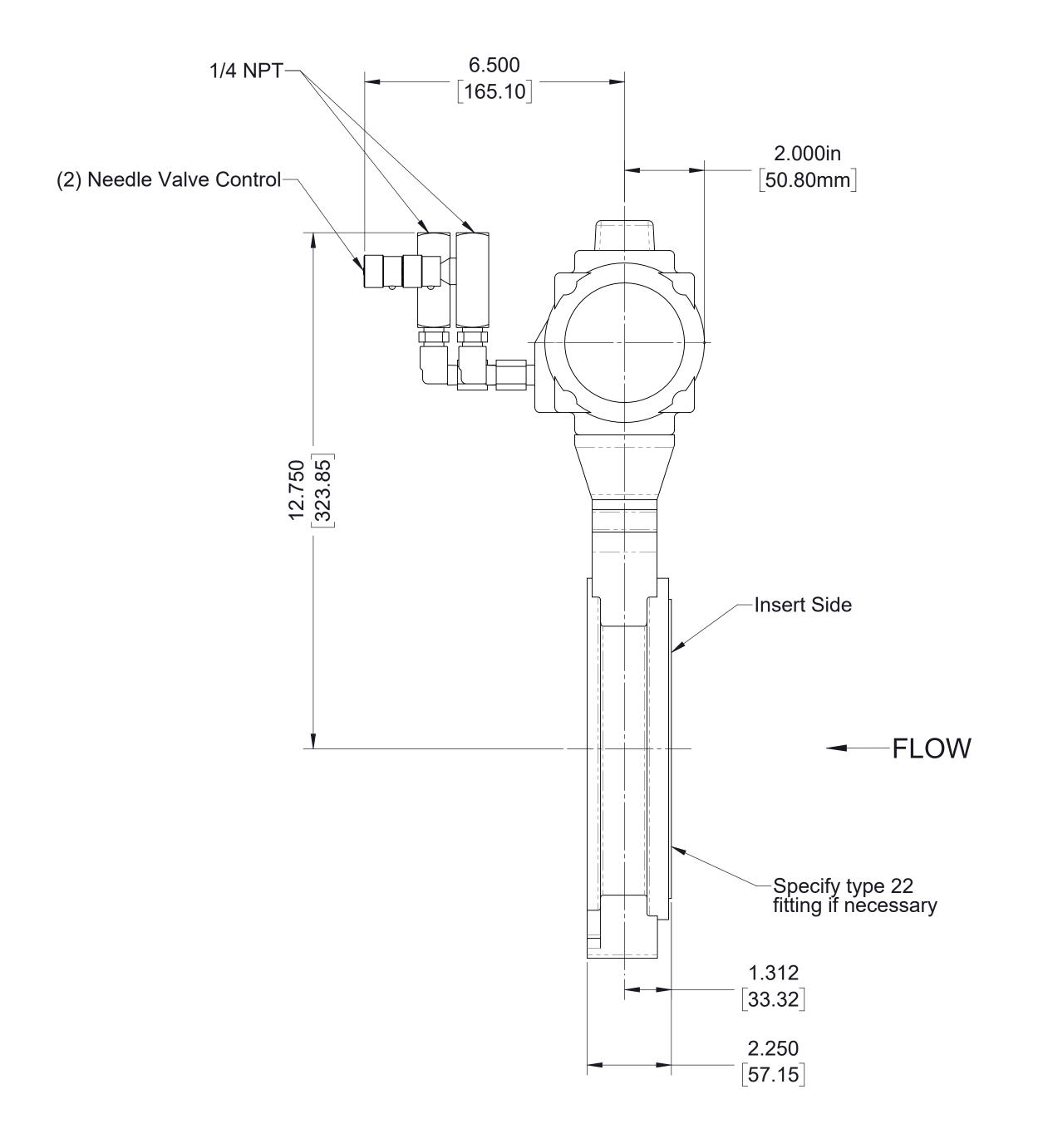
Fitting 1

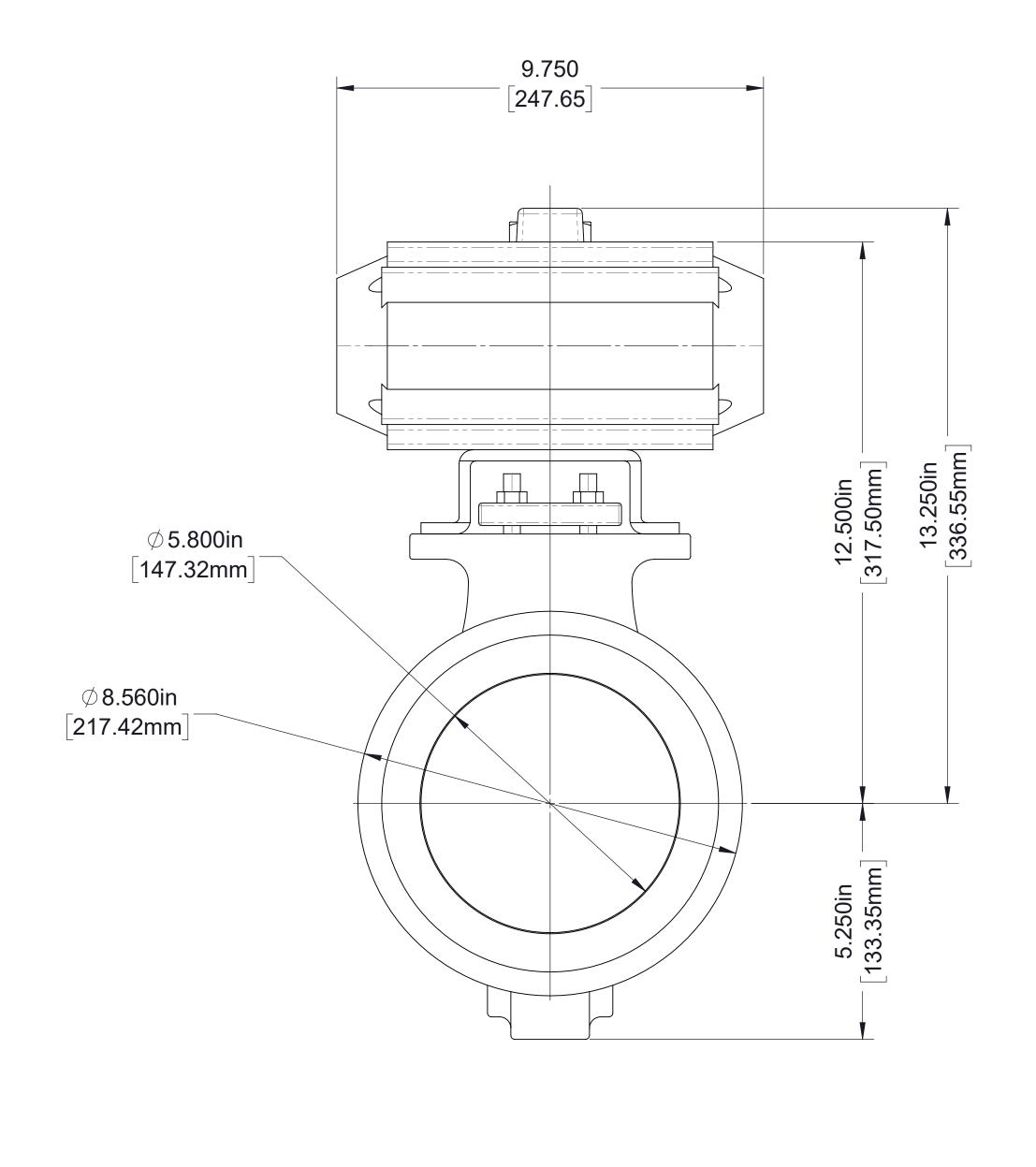




Thread Size	Part Number	L	Includes Gasket	
	Iron		Jaanot	
4 in NH	7235-15A	15.000/381.00	5766	
4-1/2 in NH	7236-15A	15.000/381.00	5766	

Section 4 - Intake Fitting (Model CLS Intake Fitting)

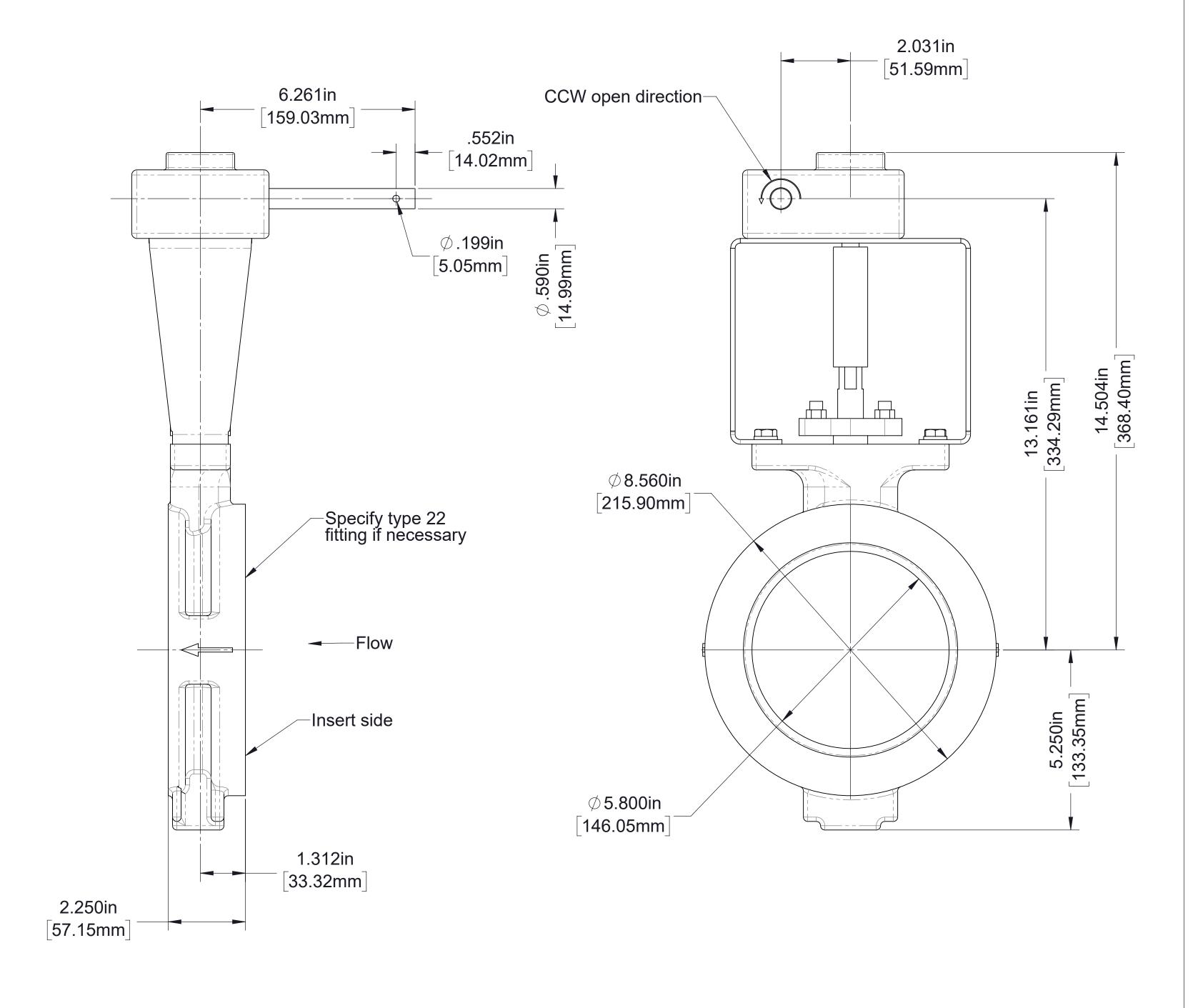




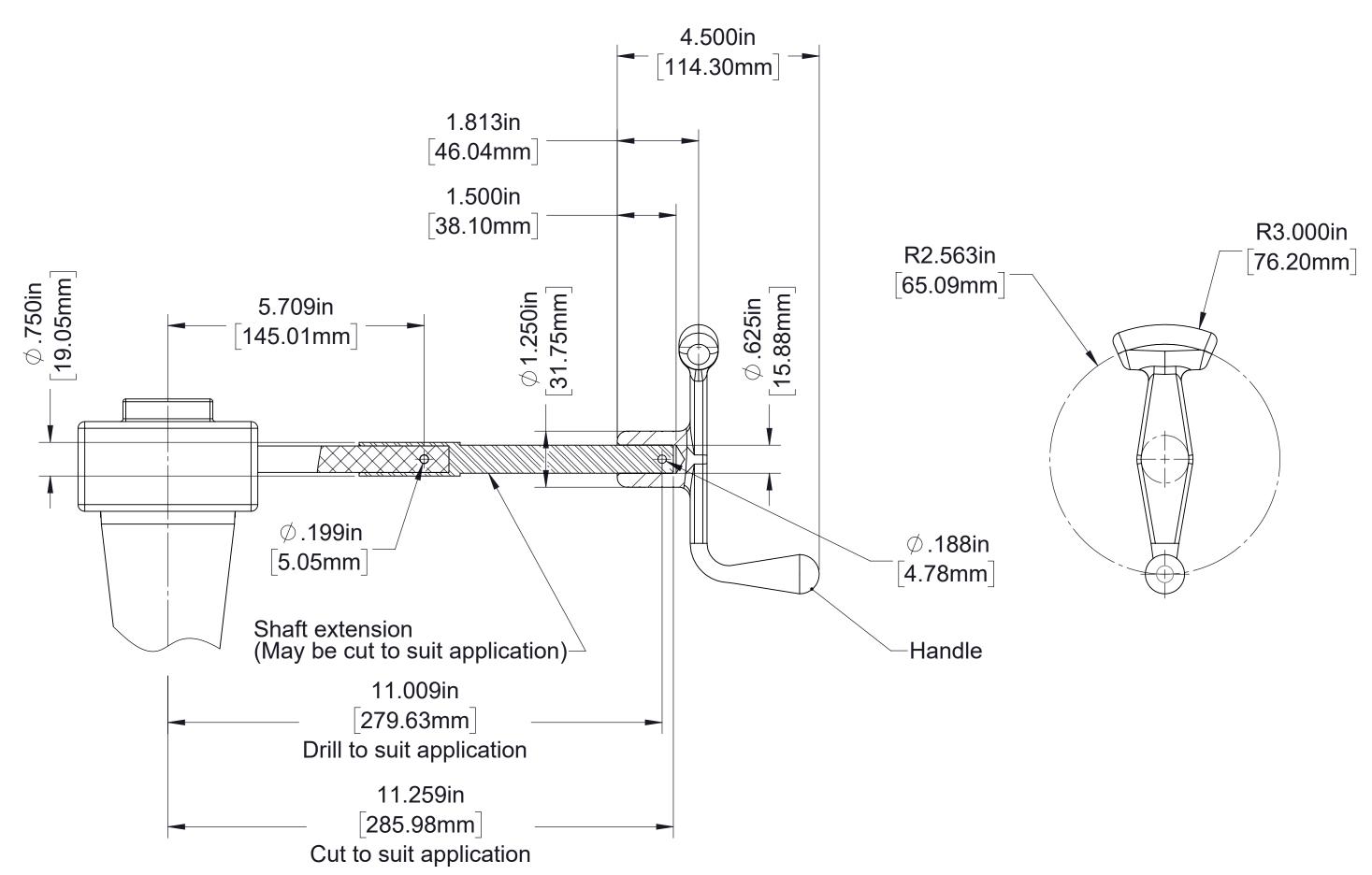
Pneumatic Actuator

Part Number					
Valve Mounted On Pump	Valve Shipped Loose				
82743-2A	82743-2B (Includes Two 73760 Gaskets)				

Section 5 - Intake Fitting for CXN Pumps Jamesbury 6 in Pneumatic Butterfly Valve



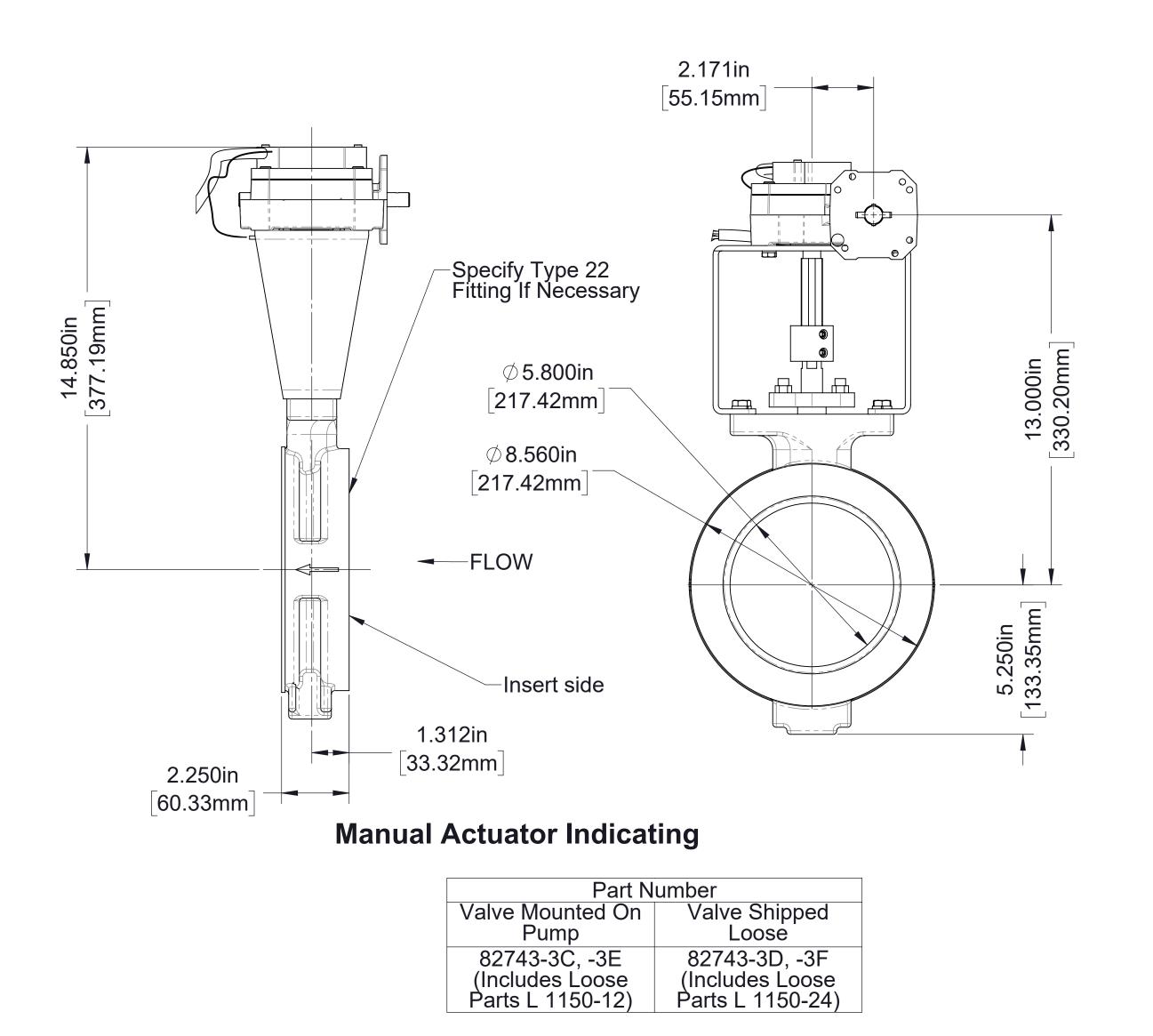
Manual Actuator Non-Indicating

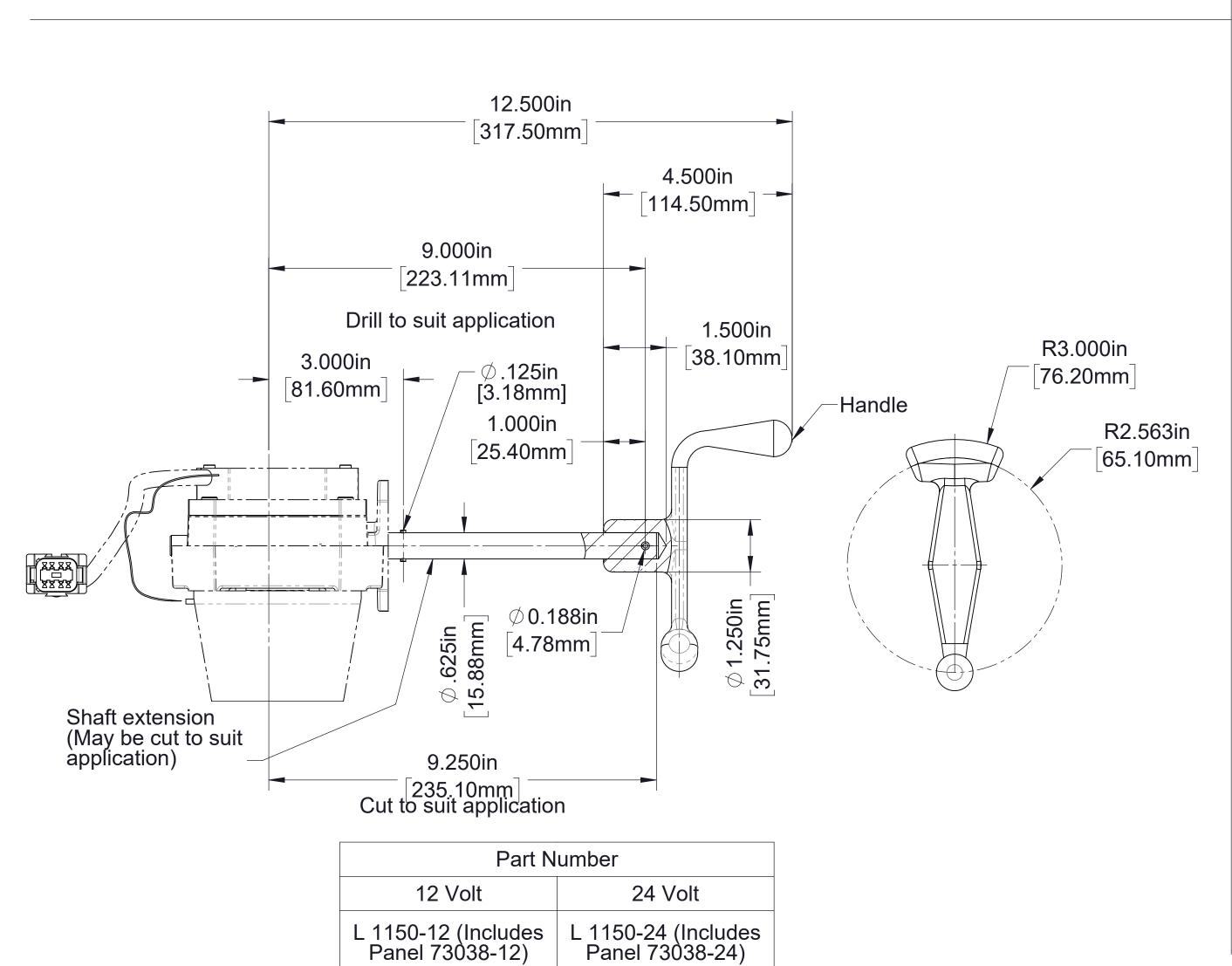


Manual Butterfly Valve Handle Kit (Furnished with each Non-Indicating Manual Valve)

Part Number				
Valve Mounted On Pump	Valve Shipped Loose			
K 1269	K 1269-1 (Includes Two 73760 Gaskets)			

Order Part Number as Required					
Part	Number				
Valve Mounted On Pump by Waterous	Valve Shipped Loose				
82743-3P (Includes handle kit K1269)	82743-3R (Includes handle and gasket kit K1269-1)				

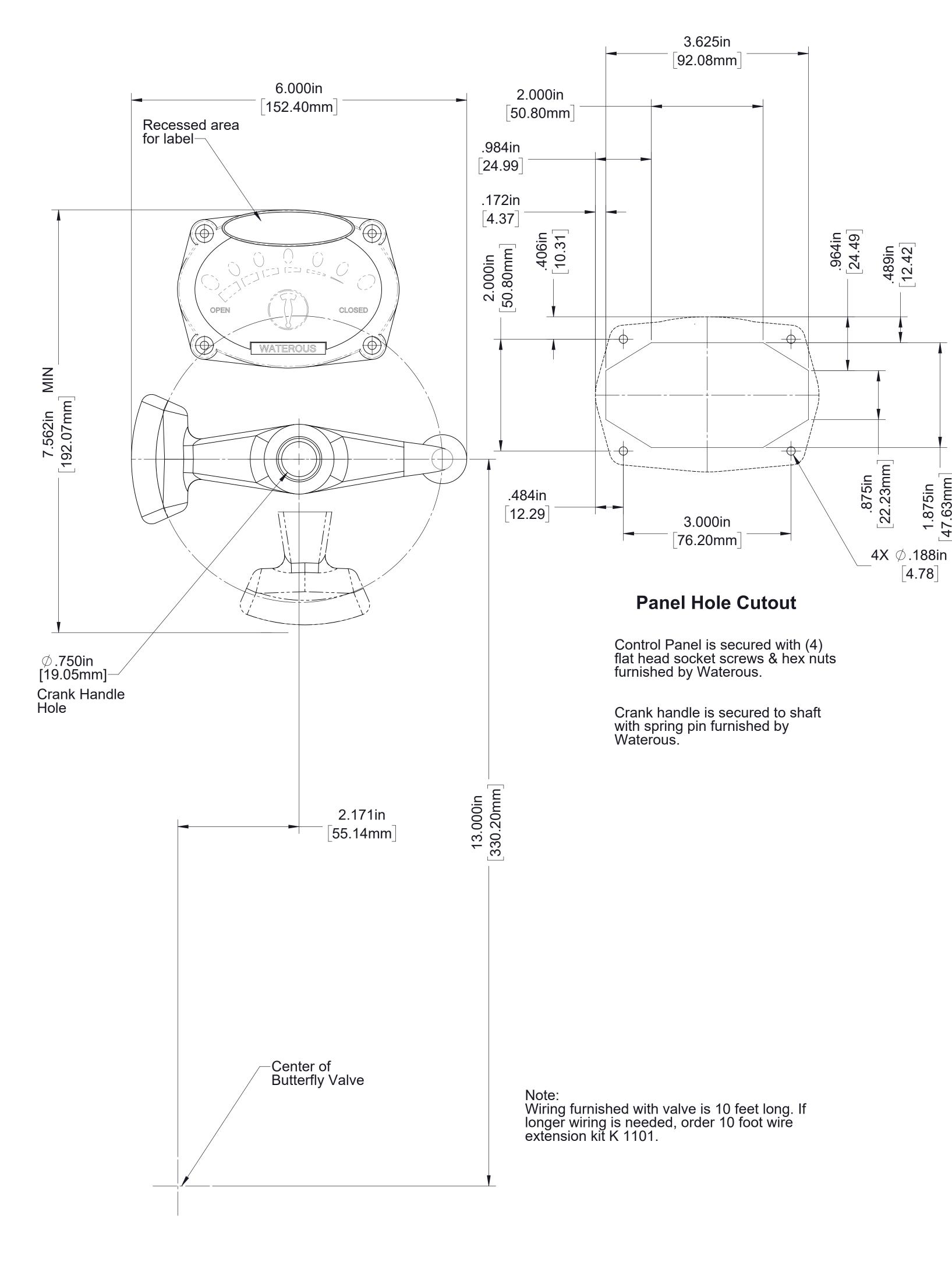




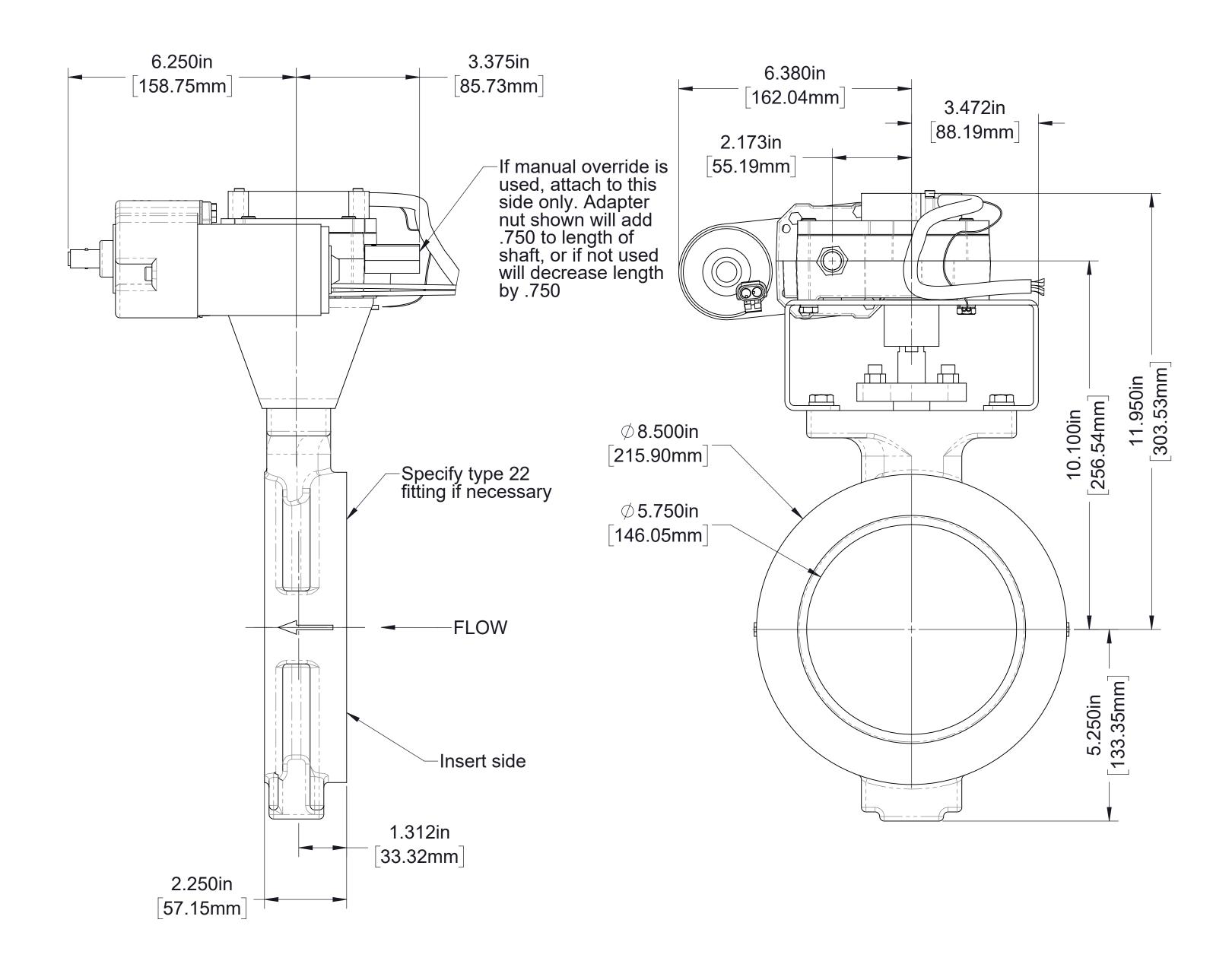
Manual Butterfly Valve Handle

Kit furnished with each

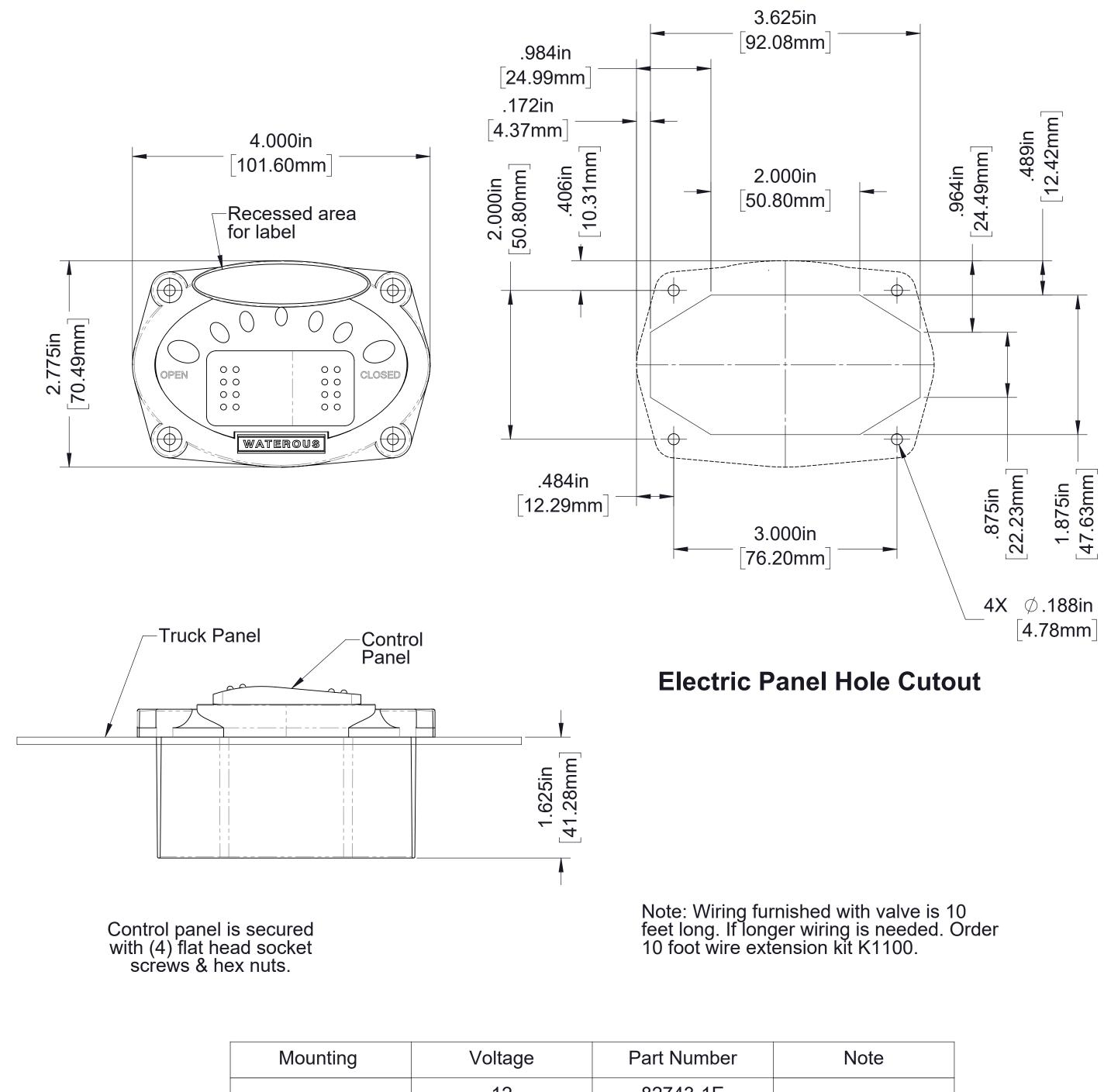
Indicating Manual Valve



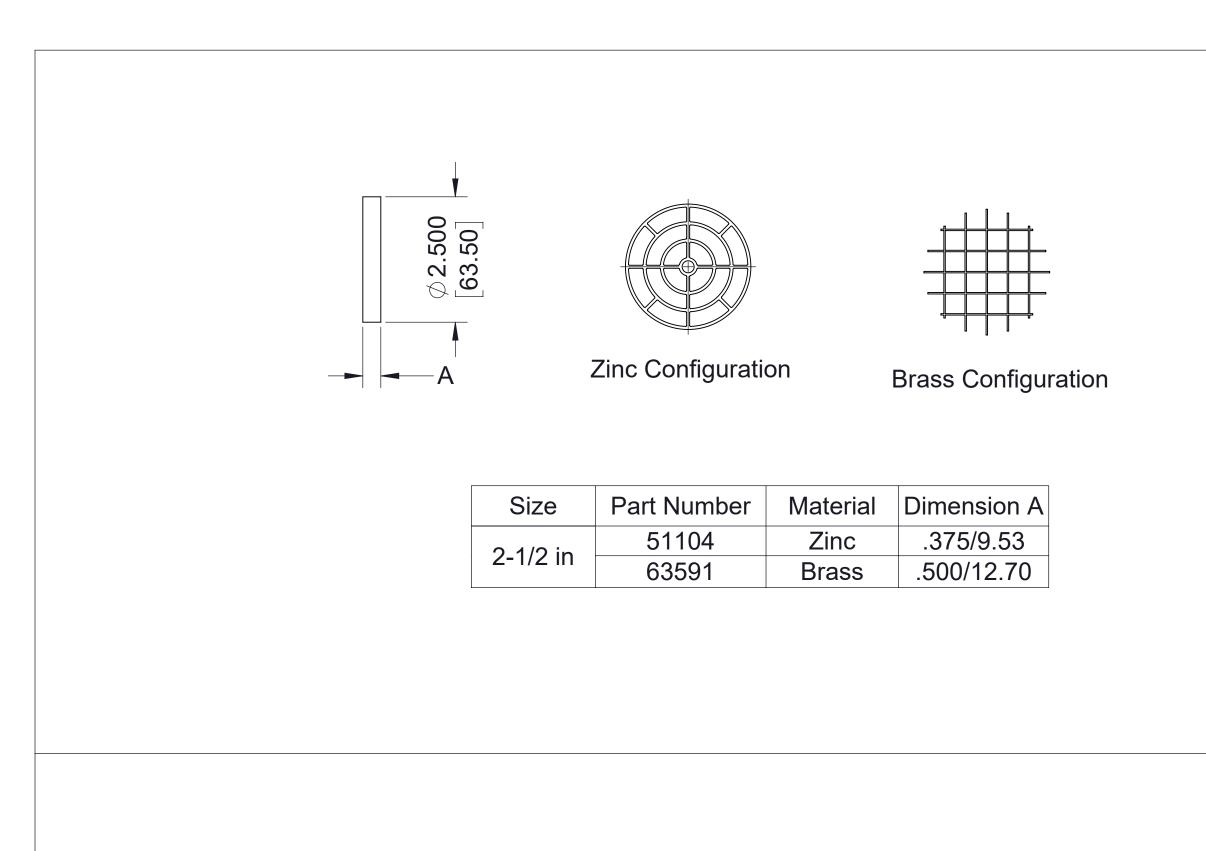
Section 5 - Intake Fittings for CXN Pumps Jamesbury 6 in Manual Indicating Butterfly Valve



Electric Rotary Actuator



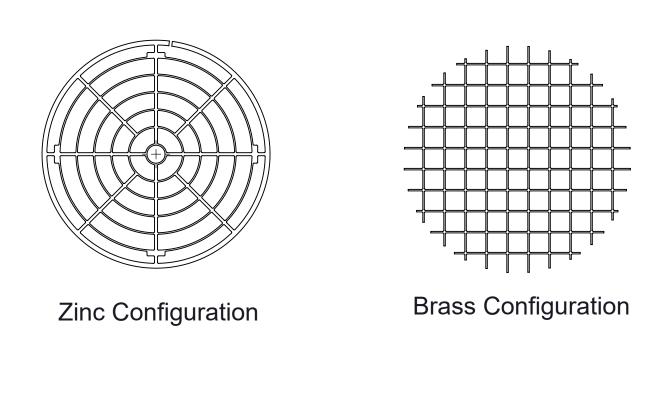
Mounting	Voltage	Part Number	Note
On The Pump By Waterous	12	82743-1E	N/A
	24	82743-1F	
Shipped Loose By Waterous	12	82743-1G	Included Two 73760 Gaskets
	24	82743-1H	

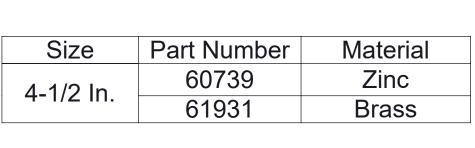


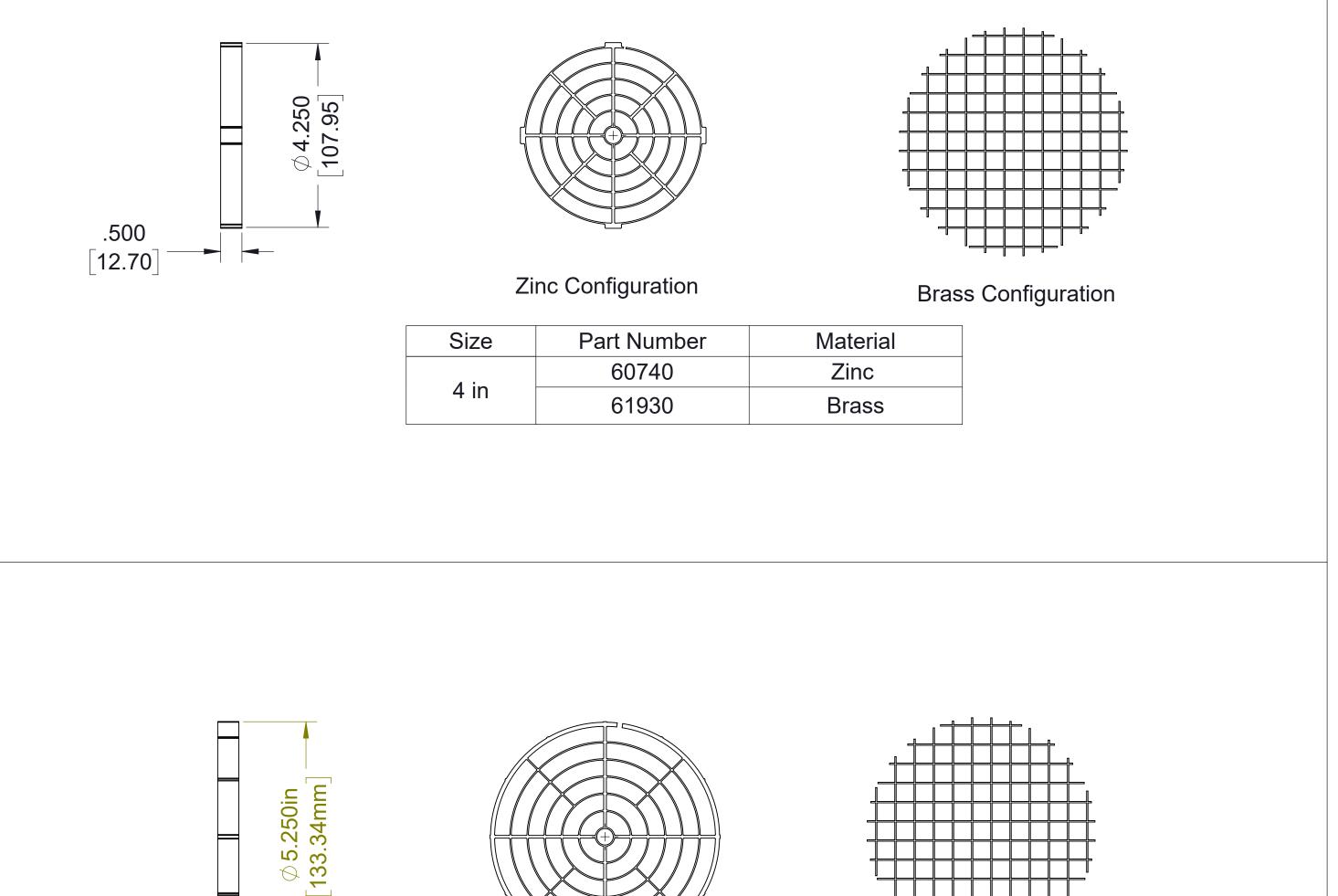
⊘4.750in [120.65mm]

.500in

[12.70mm]







Zinc Configuration

Size

5 ln.

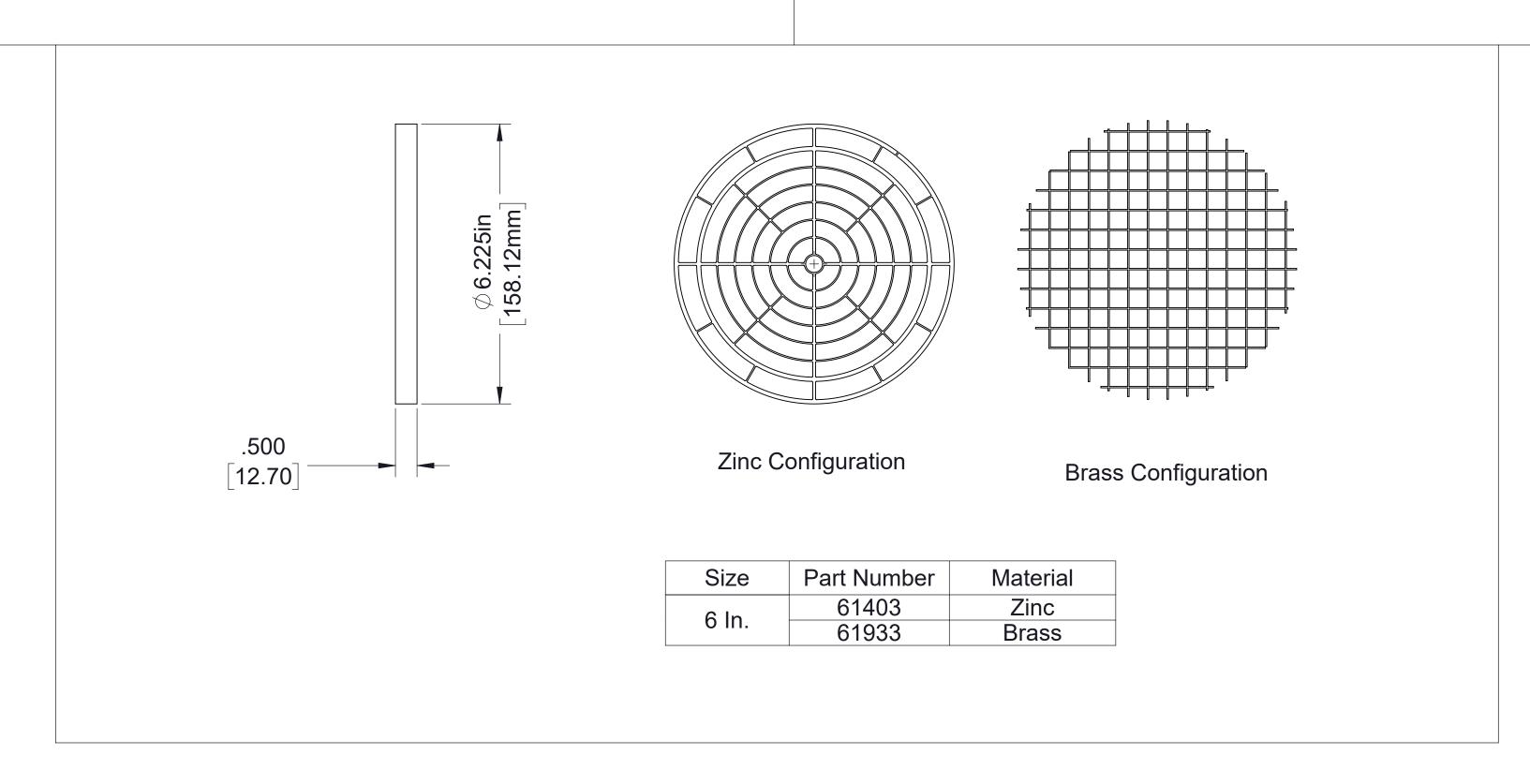
Part Number 61402

61932

Brass Configuration

Material Zinc

Brass



Section 6 - Intake Screens

.500 [12.70]