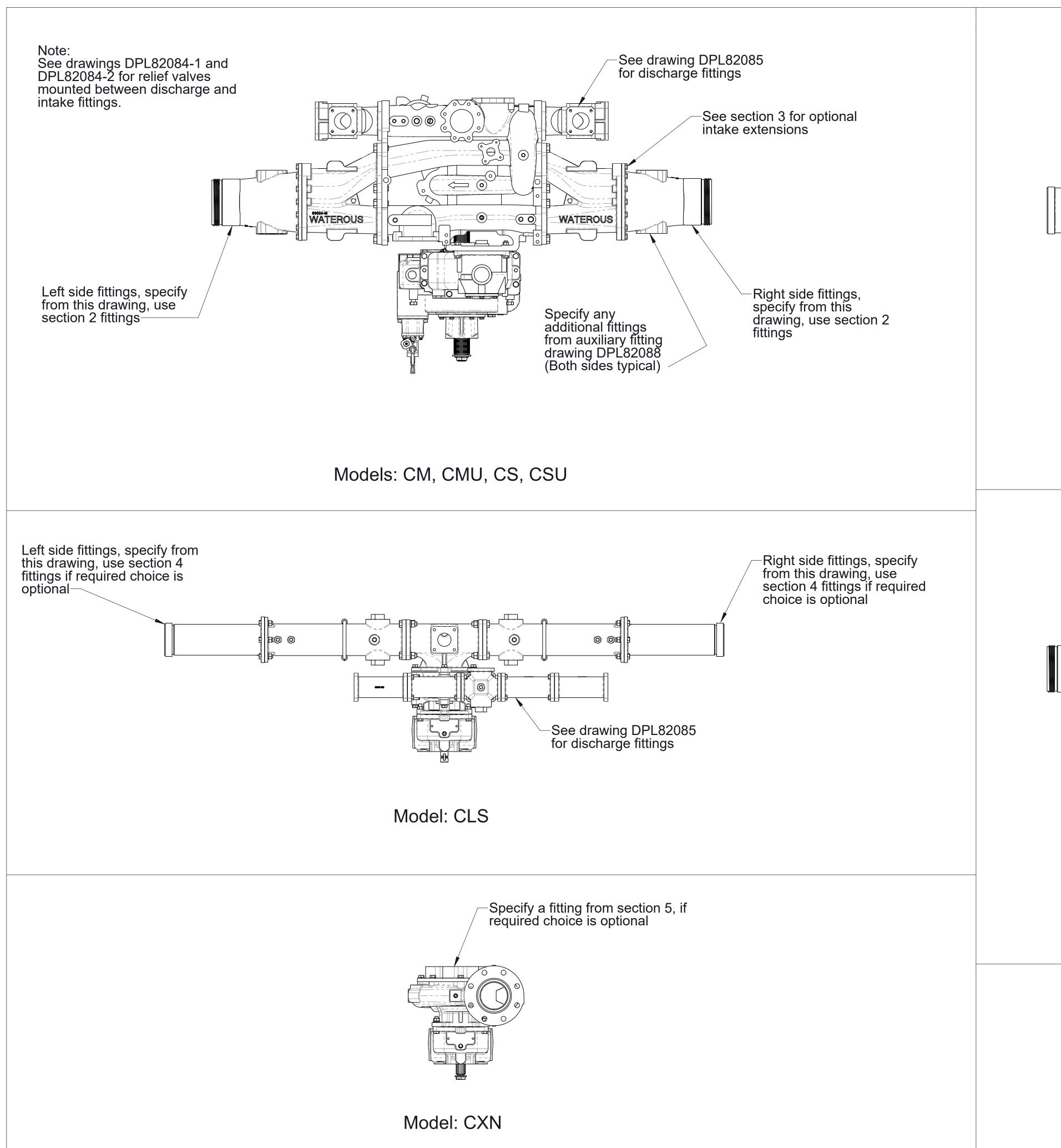


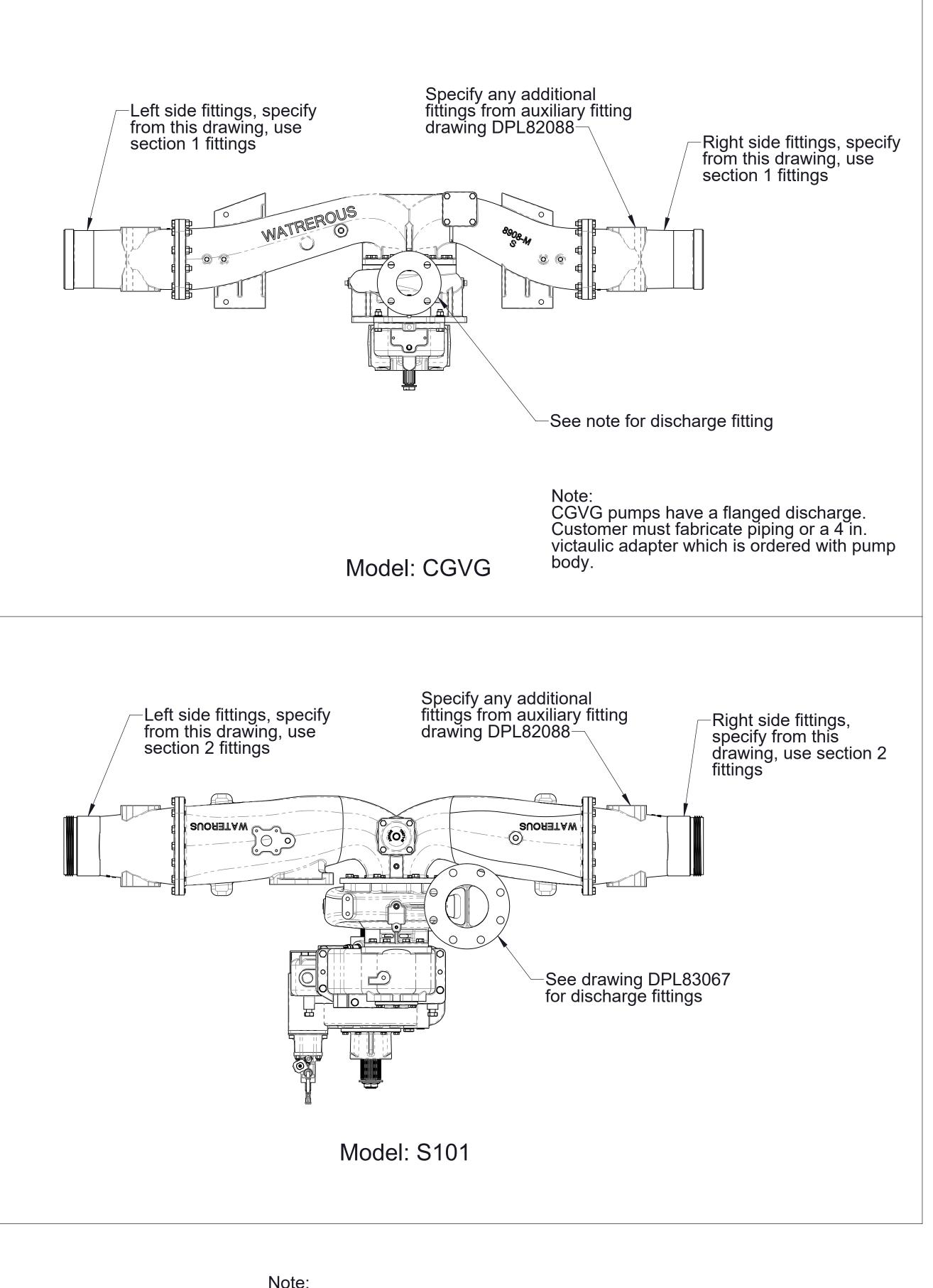
 Document Number
 Issue Date
 Rev. Date

 DPL81867
 11/13/91
 02/28/25

Intake Fitting Dimensional Drawings

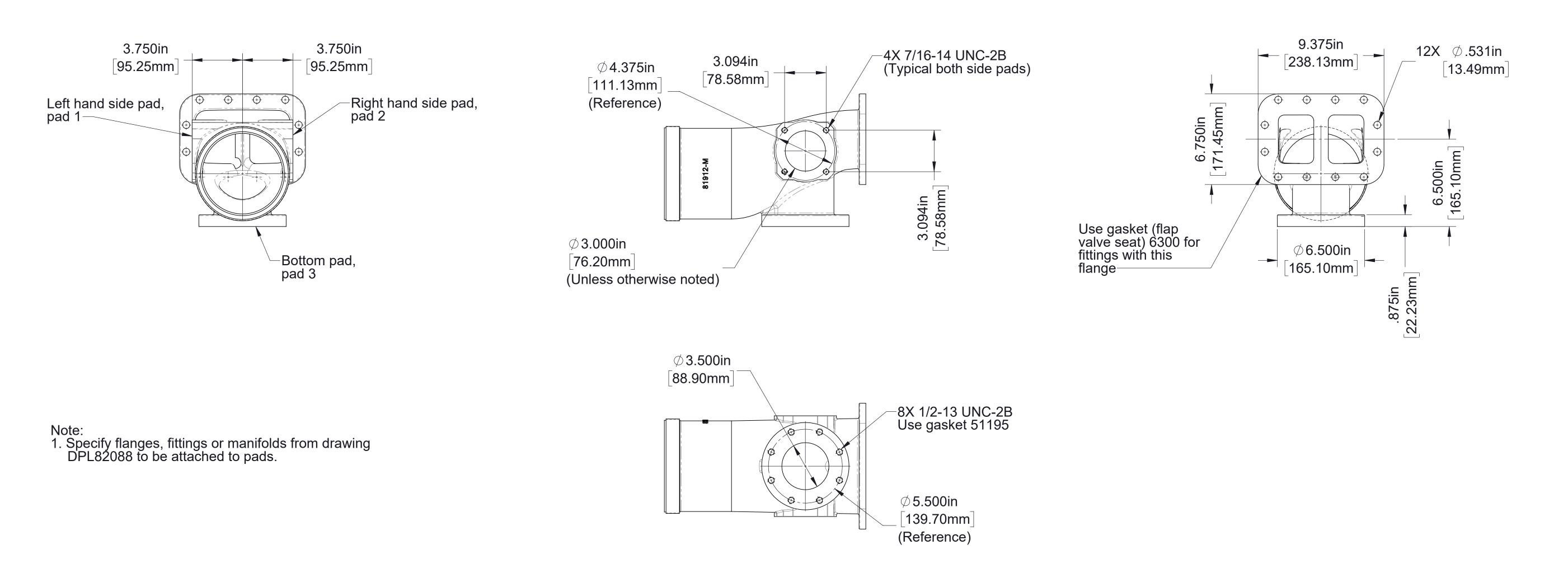
Section	Description	Mounting Flange Size on Pump	Used On Pump Models	See Page
1	Standard Flange Intake Fittings	9.375 in. X 6.750 in. Rectangular (12) Bolts	CGVG	3-7
2	Large Flange Intake Fittings	11.500 in. X 8.125 in. Rectangular (16) Bolts	CM, CMU, CS, CSU, S101	8-15
3	Intake Extensions	Used With Section 1 Fittings	CGVG	16
3	IIIIake Exterisions	Used With Section 2 Fittings	CM, CMU, CS, CSU	10
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 Models	22



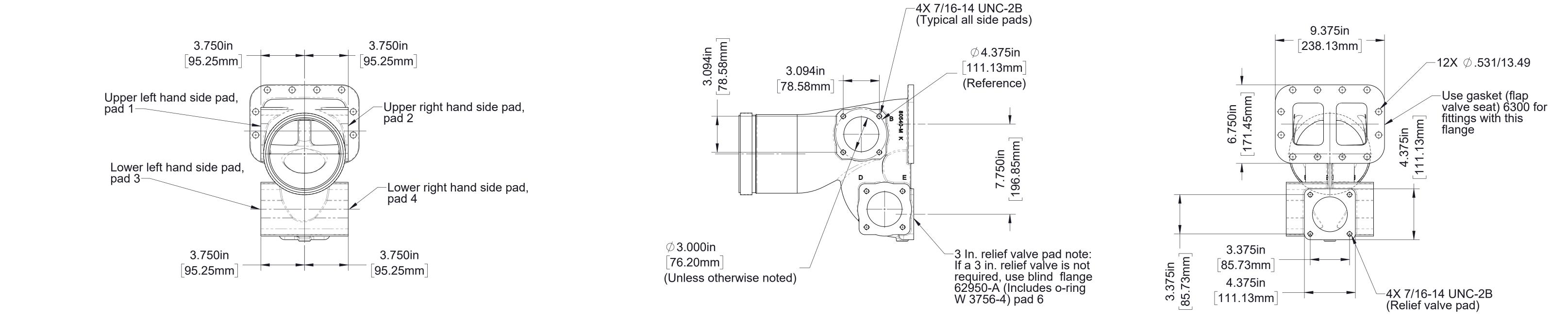


Note:
1. Pump models not listed on this page do not require intake fittings from this drawing.

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



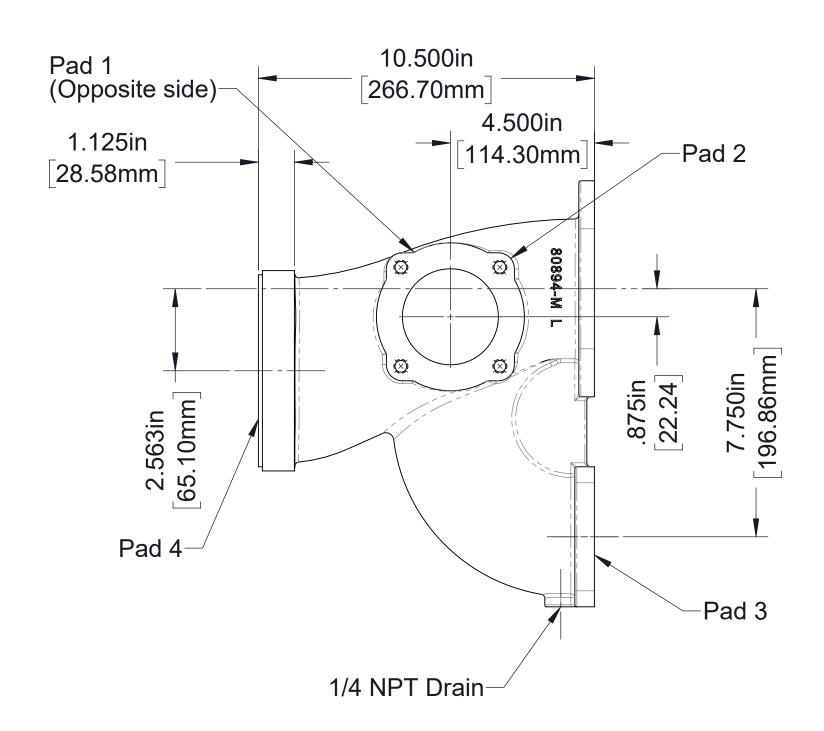
Flange Dimensions and Side Pad Details for Fittings Without Relief Valve Pad



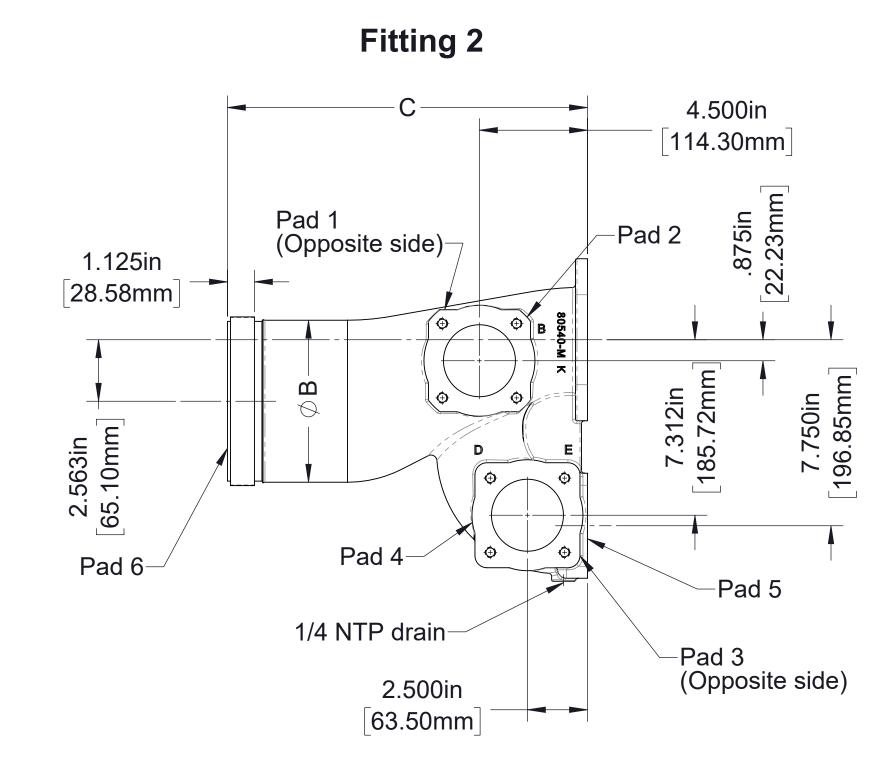
1. Specify flange or fittings from drawing DPL82088 to be attached to pads.

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

Fitting 1



Part No.	Thread Size
81833	5 in



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

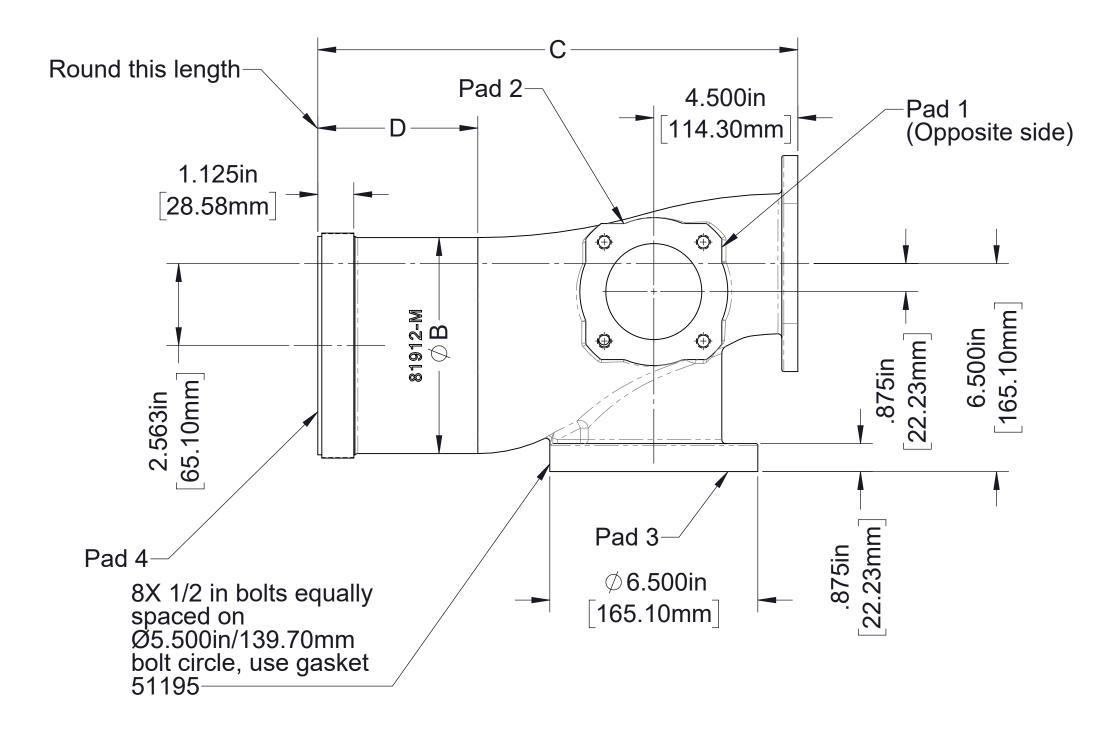
D 1	Р	ad 1	F	Pad 2	F	Pad 3	F	Pad 4	Р	Pad 5	F	Pad 6	T		
Part Number	Machined	Install Auxiliary Fittings	Thread Size	В	С										
81833	4-Bolt	Type 1	4-Bolt	Type 1	3.0 RV	Type 14	5.0 THD	Type 23		N/A		N/A	5 in	5.750/146.05	N/A
81835	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4- Bolt	Type 1	3.0 RV	Type 14	4.5 THD	N/A	4.5 in	5.750/146.05	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	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	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	13.500/342.90						

- Notes:
 1. Threads are furnished as follows:

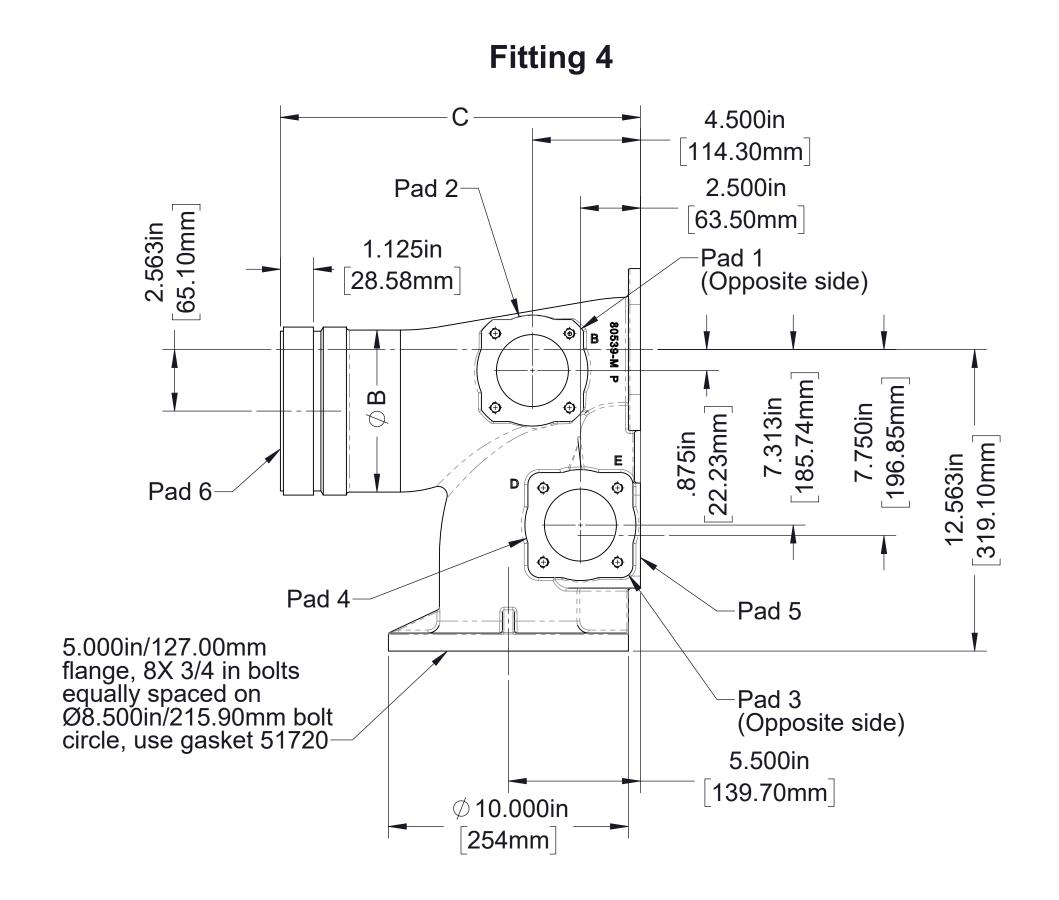
 (4.5 in NH (5.75 in. O.D. X 4 T.P.I)
 (5 in NH (6.25 in. O.D. X 4 T.P.I)
 (6 in NH (7.031 in. O.D. X 4 T.P.I)

 2. Other threads are available by special order with different part numbers applying.
 3. See page 3 for flange dimensions and side pad details.
 4. 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



Part Number	Thread Size
81841	6 in
81844	6 in

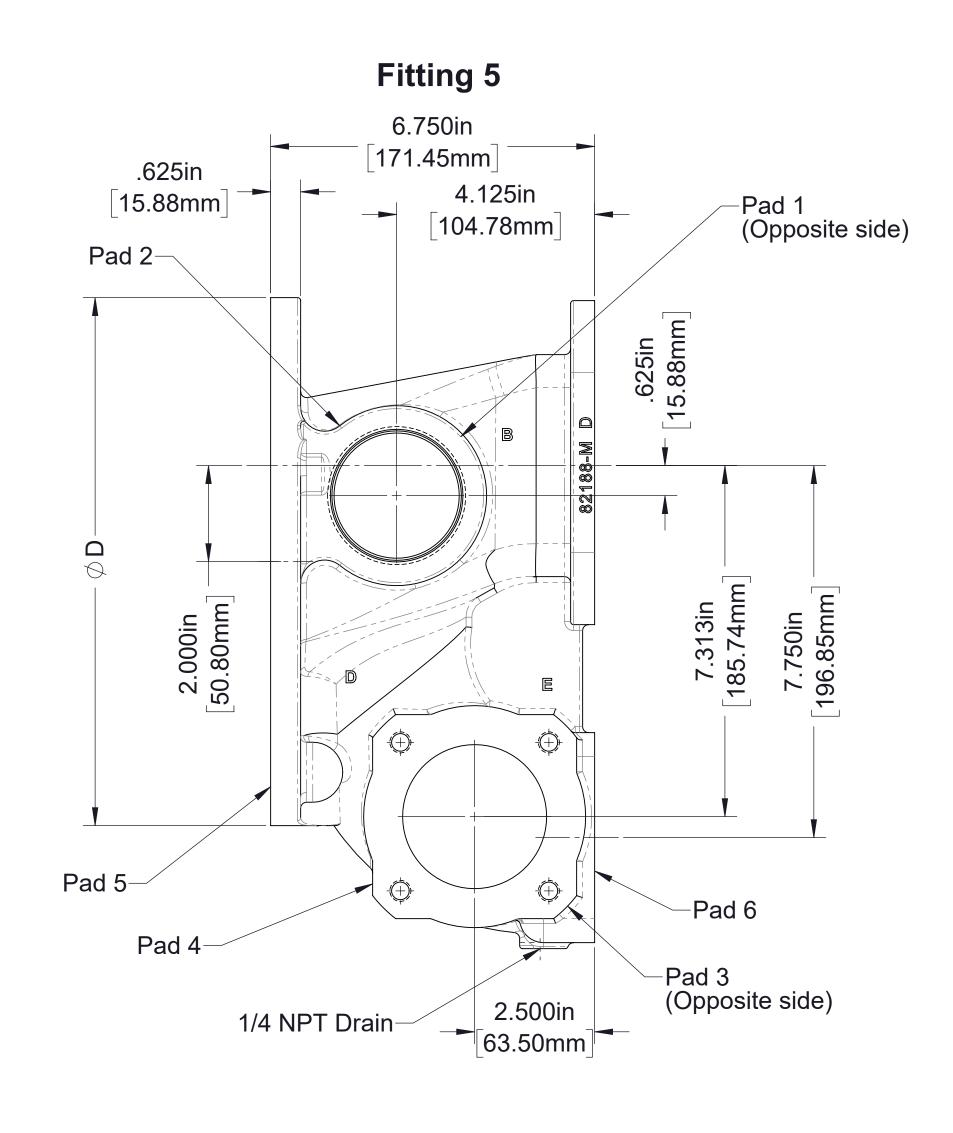
	Pad	1	Pad	2	Pad	3	Pac	14	Pad 5		Pad 6					
Part Number	Machined	Install Auxiliary Fittings	Thread Size	В	С	D										
81912	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	6.0 THD	Type 13	N/A	A	N/A	4	6 in	6.750/171.45	15.000/381.00	5.000/127.00
81913	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	5.0 THD	Type 23	N/A	4	N/A	4	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	4	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						

Notes:
1. 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.)

2. Other threads are available by special order with different part numbers applying.
3. See page 3 for flange dimensions and side pad details.
4. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section1 - Threaded Intake Fittings

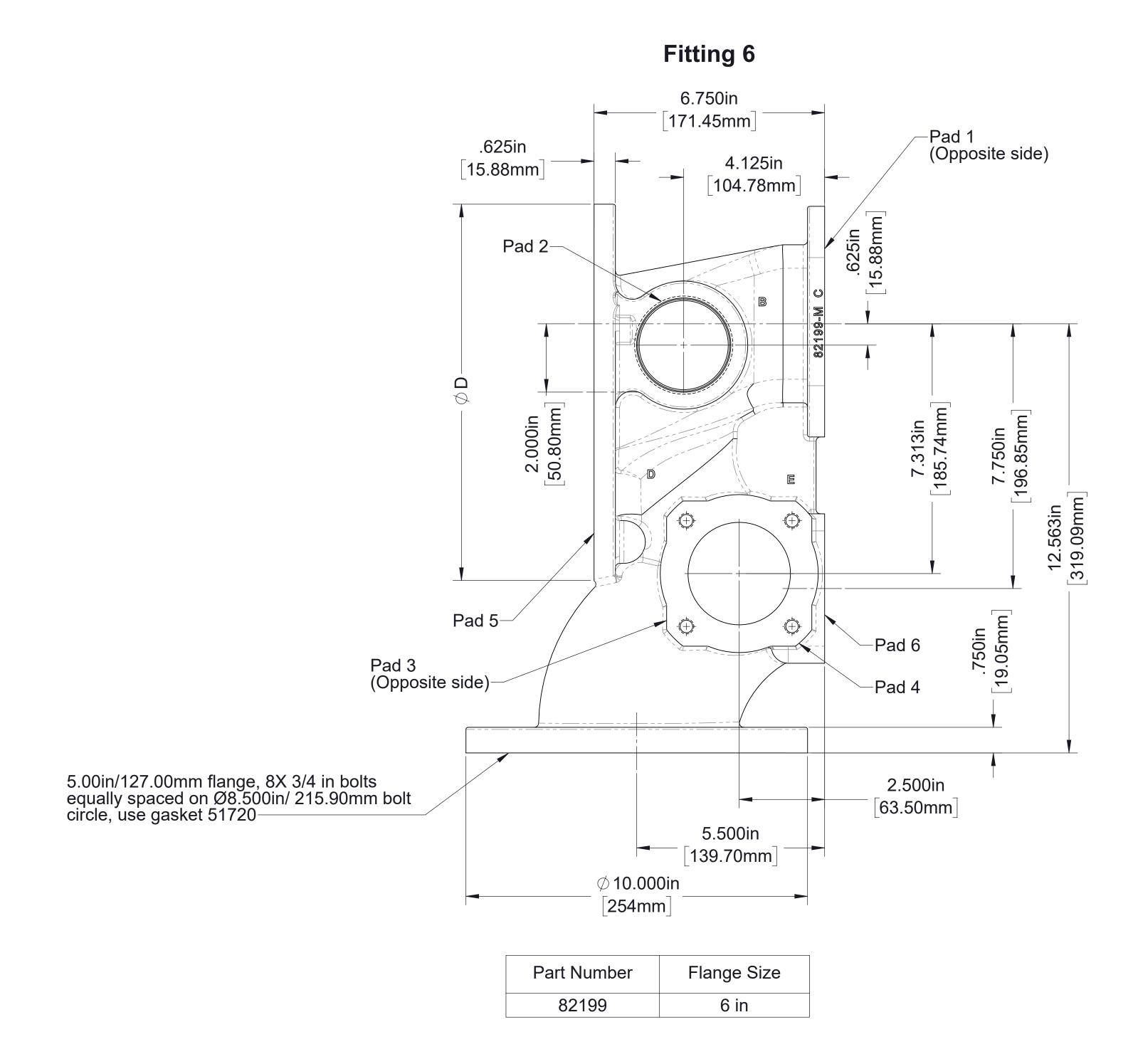


Part Number	Flange Size
82188	6 in

Dort	Р	ad 1	Р	Pad 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	9.500/241.30	8X 3/4 in	51719

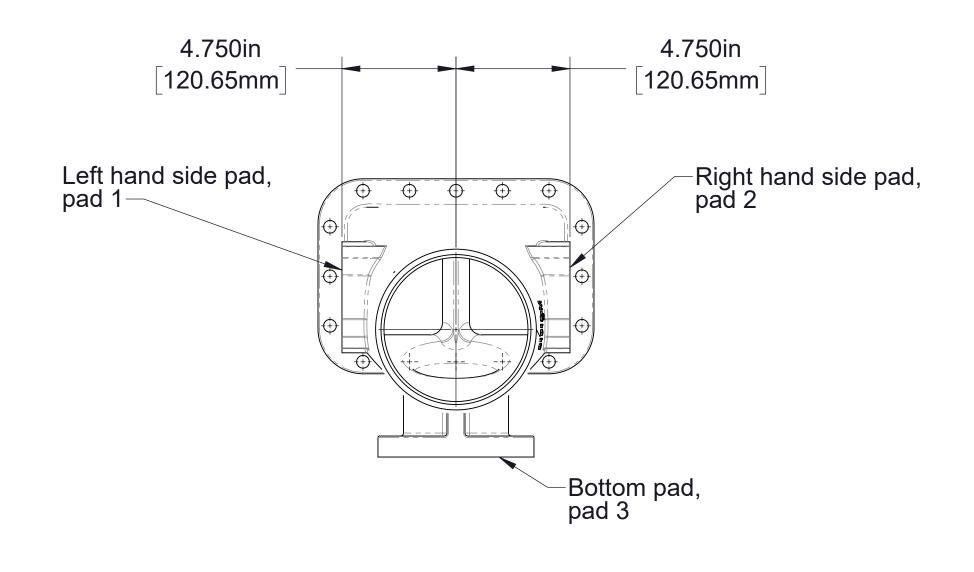
Notes:1. See page 3 for flange dimensions and side pad details.2. See drawing DPL82088 for auxiliary which may be installed on fitting pads.

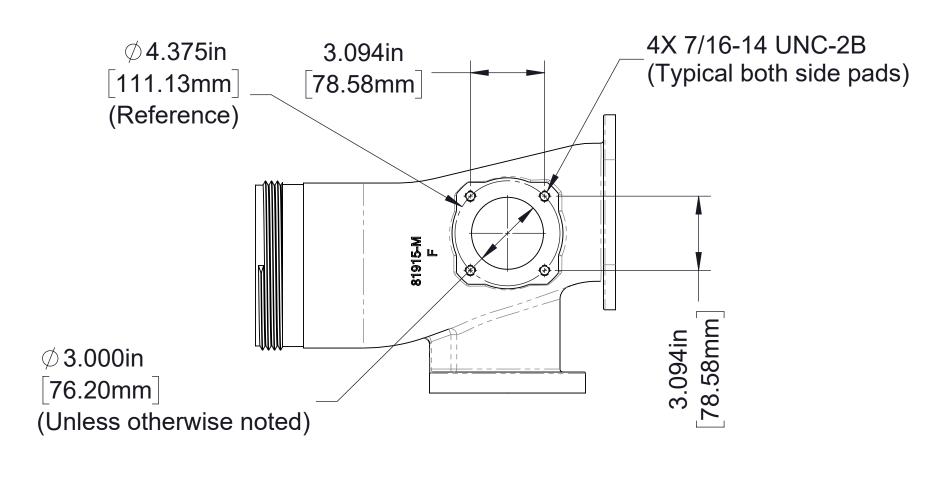
Section 1 - Flanged Intake Fittings

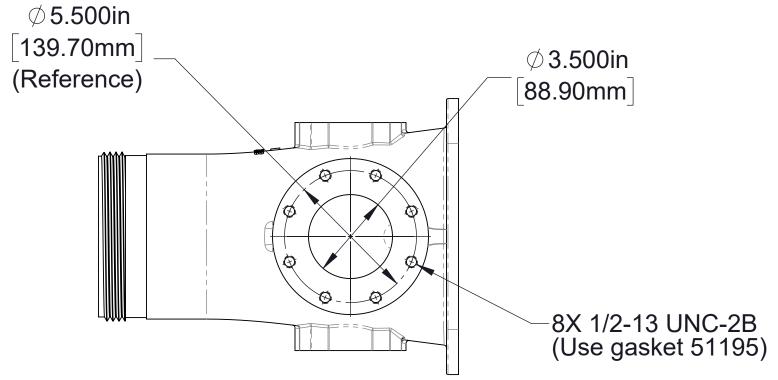


Port	Р	ad 1	P	ad 2	F	Pad 3	F	Pad 4		Pad 5	F	Pad 6					
Part Number	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Machined	Install Auxiliay Fittings	Flange Size	D	BC	Bolts	Gasket
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	Ø11.000/279.4	9.500/241.30	8X 3/4 in	51719

Notes:1. See page 3 for flange dimensions and side pad details.2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.



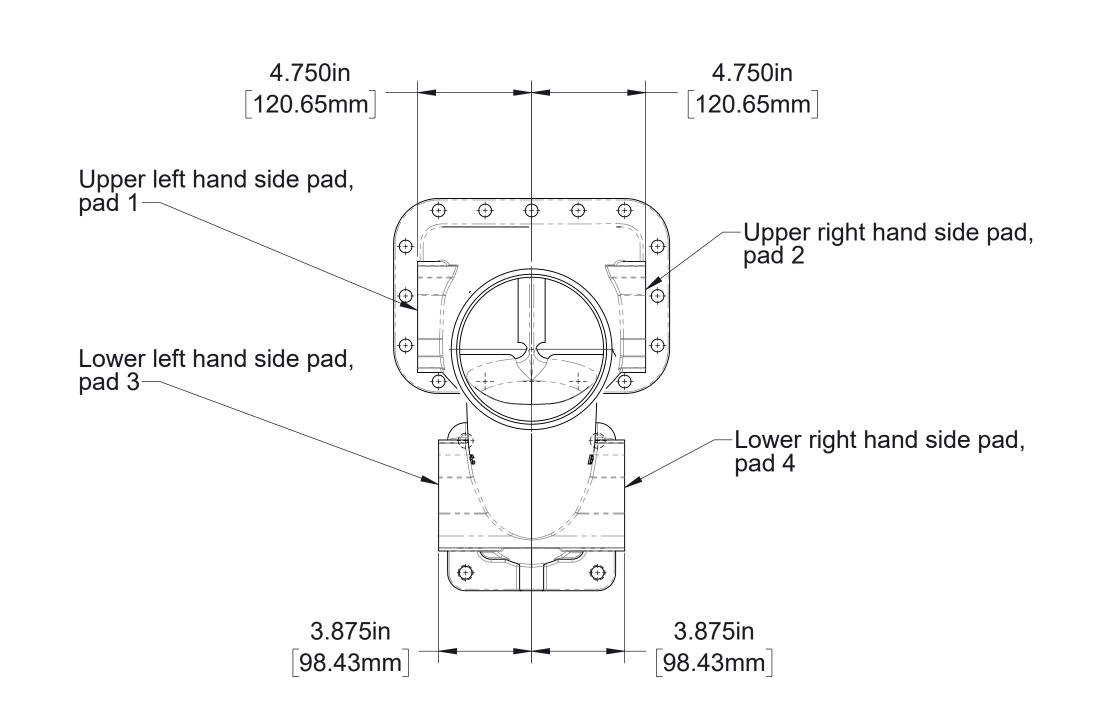


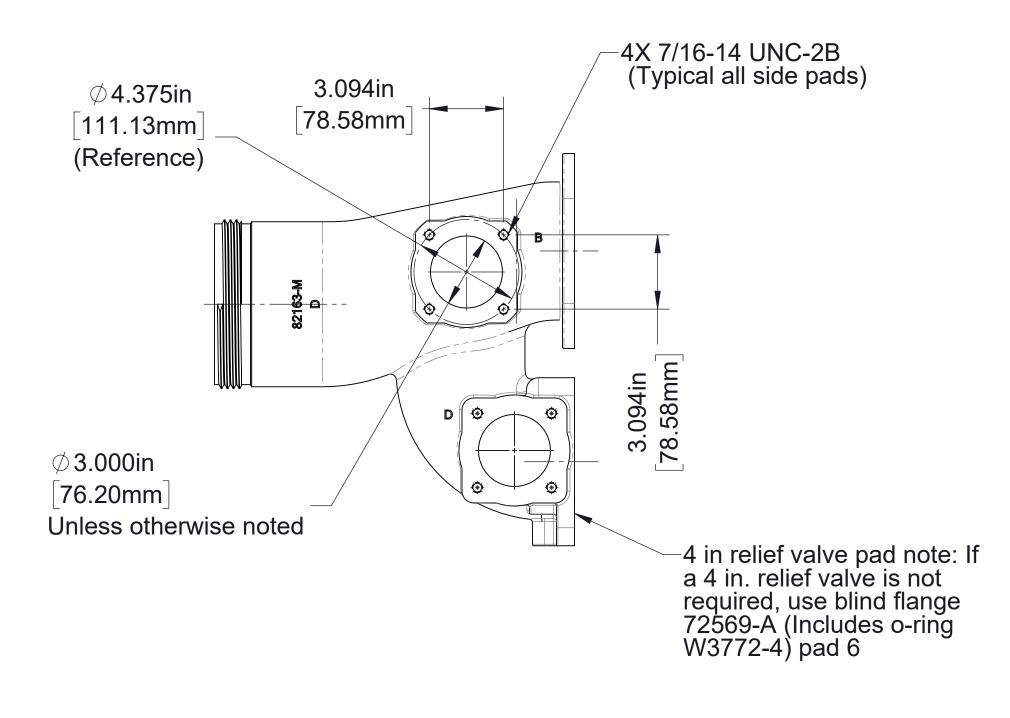


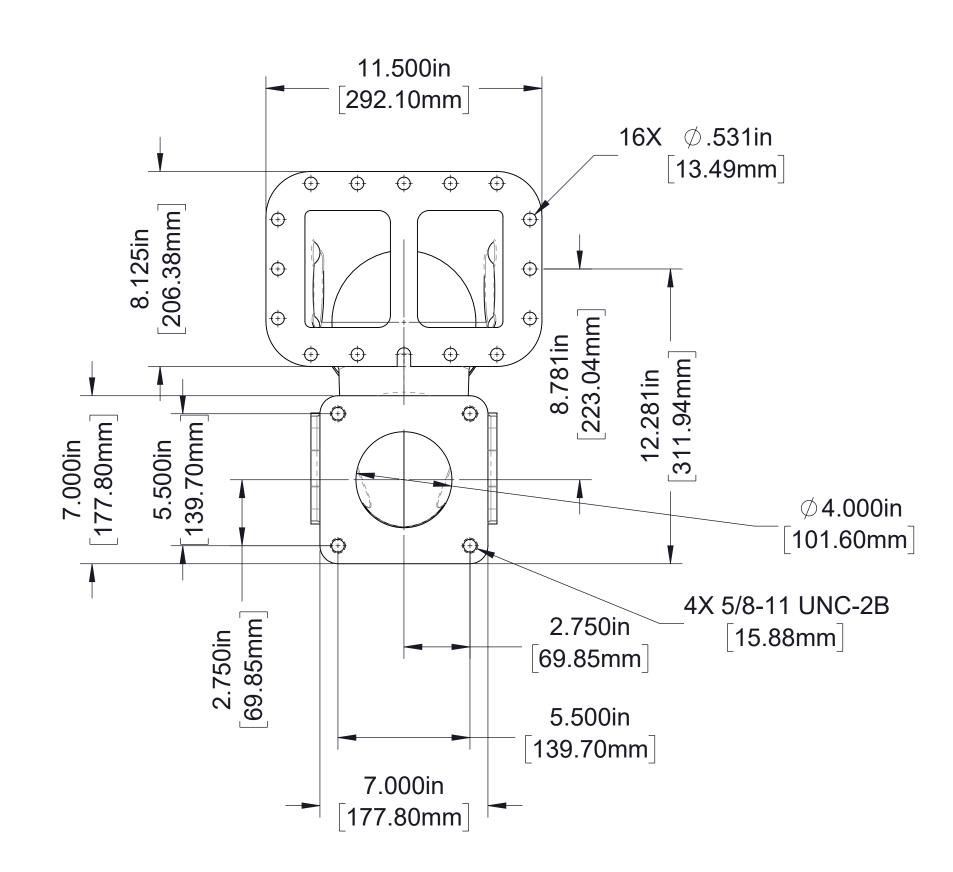
11.500in 292.10mm -16X Ø.531/13.49 Use gasket 6787 for fittings with this flange 8.125in [206.38mm] 7.531in [191.29mm] \bigoplus \oplus .875in [22.23mm] \emptyset 6.500in [165.10mm]

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



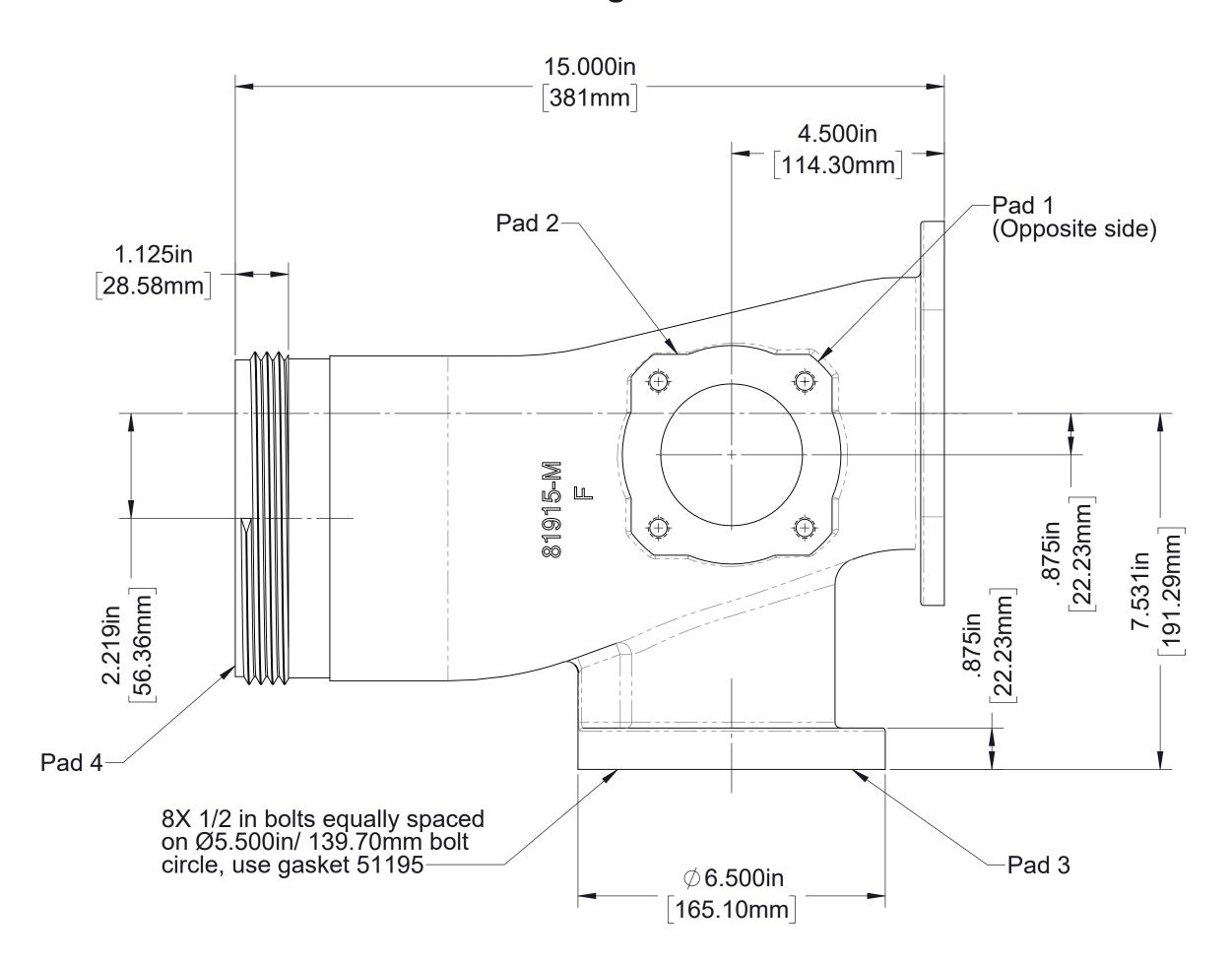




Flange Dimensions and Side Pad Details for Fittings with 4 in Relief Valve Pad

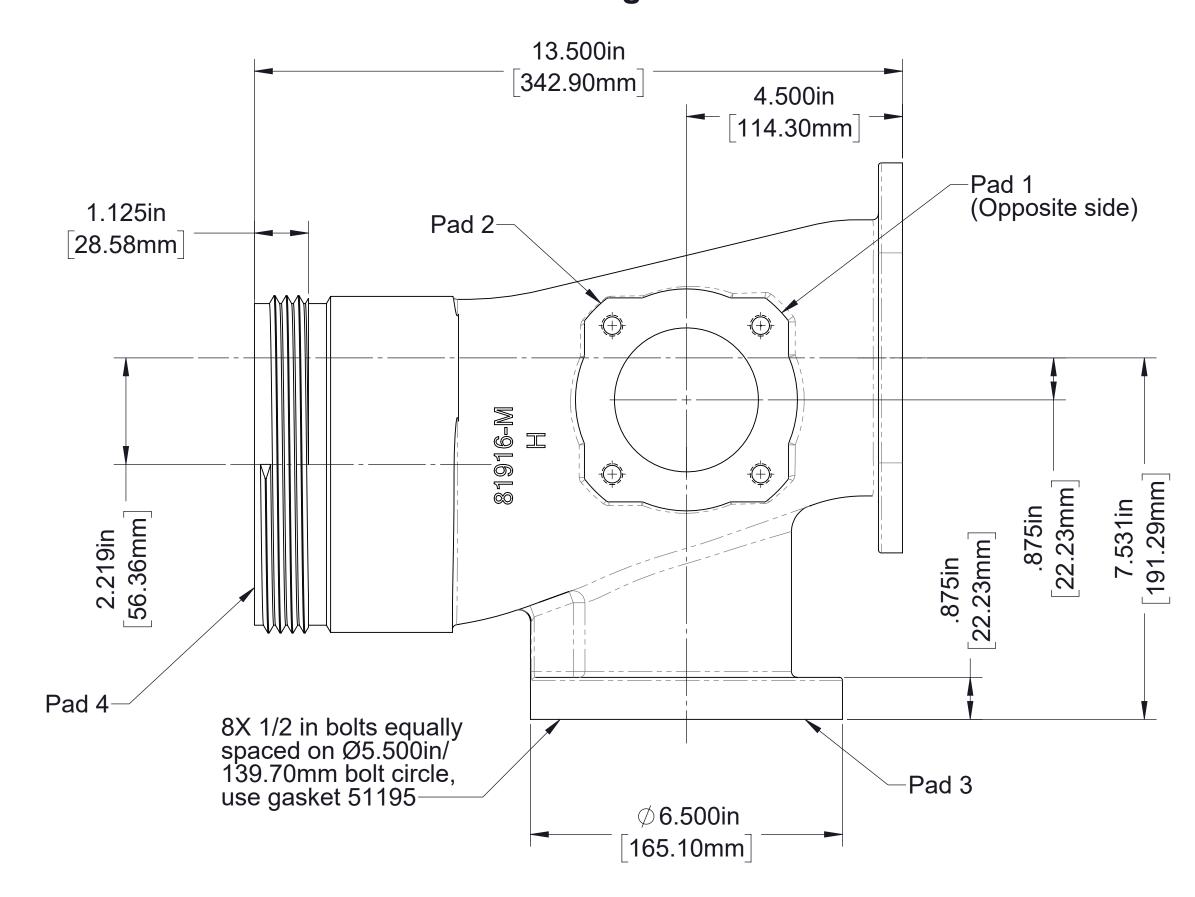
Note:
1. Specify flanges, fittings or manifolds from drawing DPL82088 to be attached to pads 1, 2 and 3.

Fitting 1



Part Number	Thread Size
81915	6 in
82767	5 in

Fitting 2



Part Number	Thread Size
*81916	6 in
82768	5 in

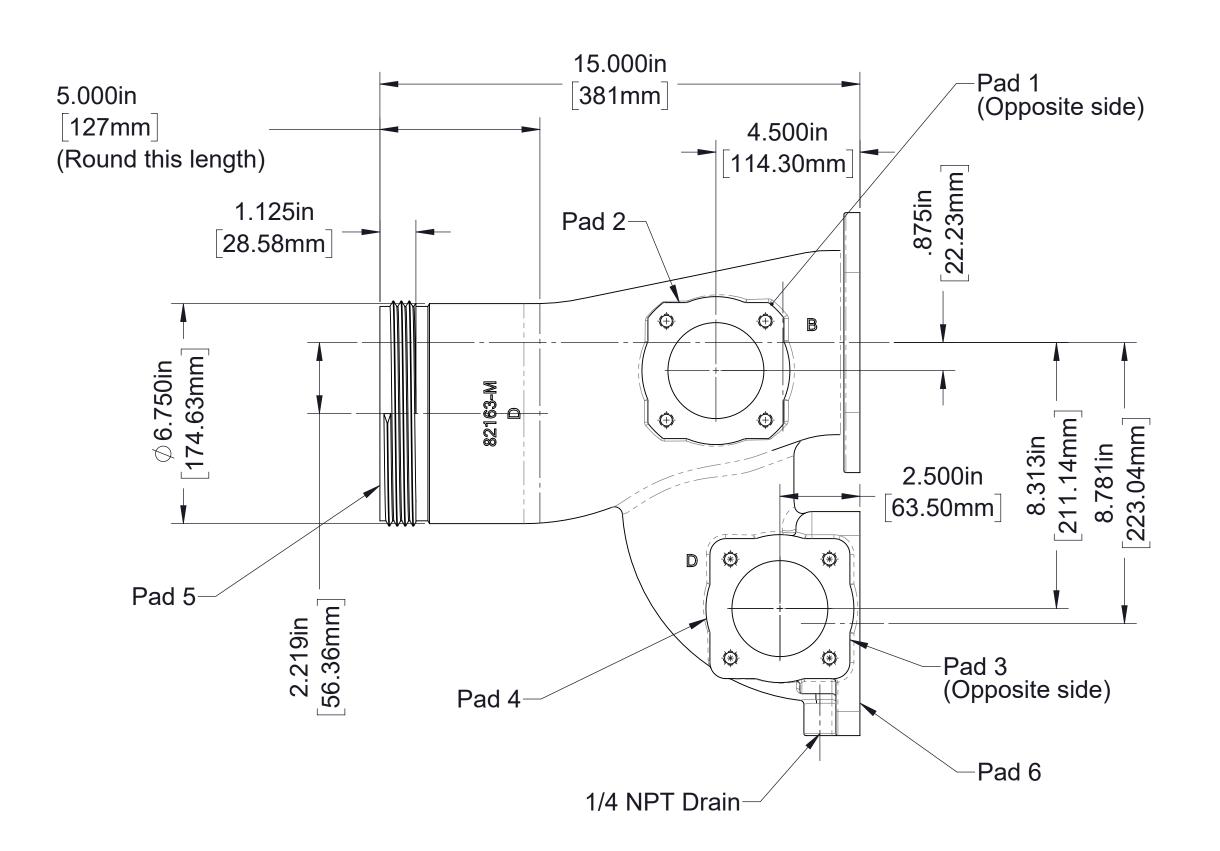
*Available in iron only

	Pad 1		Pad 1 Pad 2		F	Pad 3		Pad 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	

- Notes:
 1. 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)
 2. Other threads are available by special order with different part numbers applying.
 3. See page 8 for flange dimensions and side pad details.
 4. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section 2 - Threaded Intake Fitting

Fitting 3 Fitting 4



Thread Size
6 in

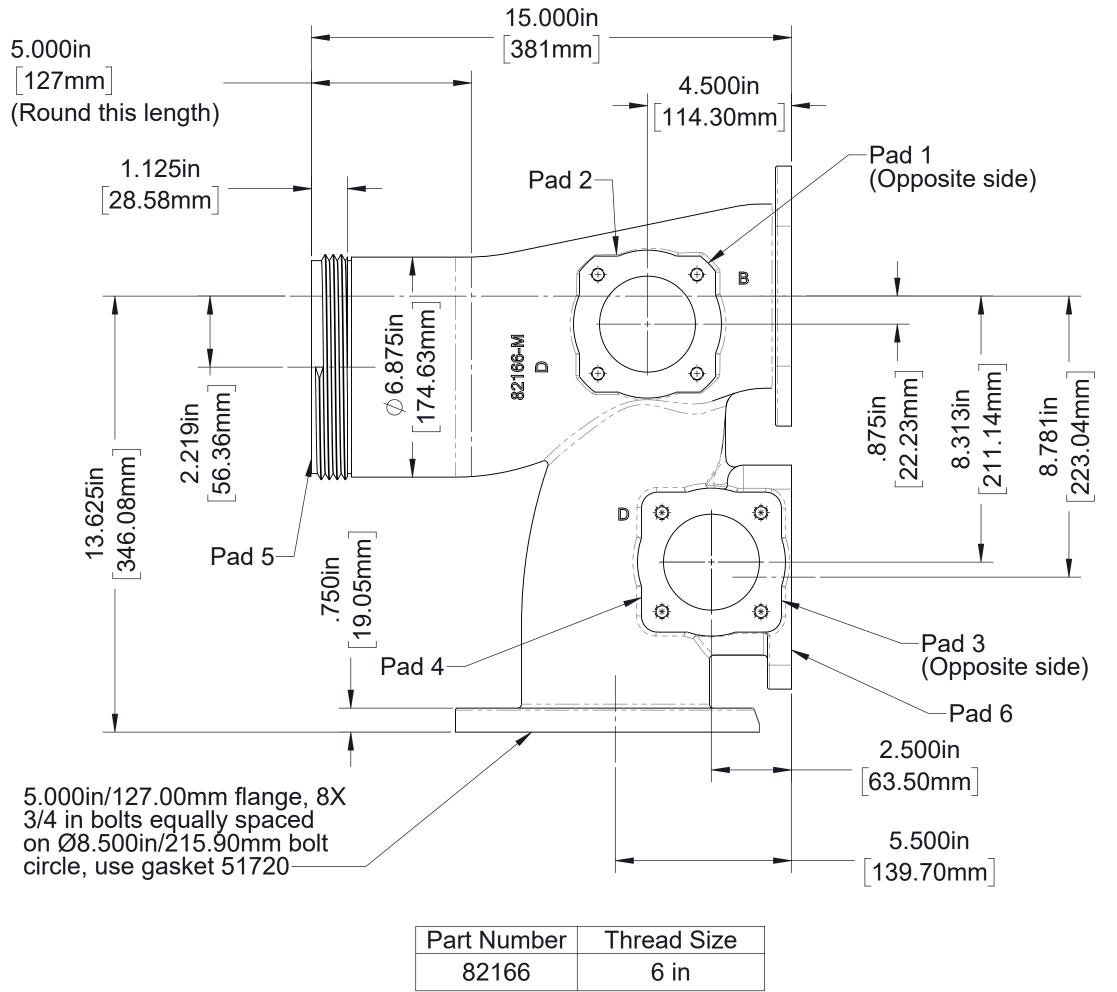
4.125in [104.78mm] (Round this length)		13.500in [342.90mm] 4.500in [114.30mm] Pad 1 (Opposite side))
1.125in [28.58mm]		Pad 2 .875in .22.23mm	
Ø 7.000in [177.80mm]		8.313in 8.313in 8.781in 8.781in	
2.219in 56.36mm	Pad 5	Pad 4 Pad 3 (Opposite side)	7
		Pad 6	

Part Number	Thread Size
82173	6 in

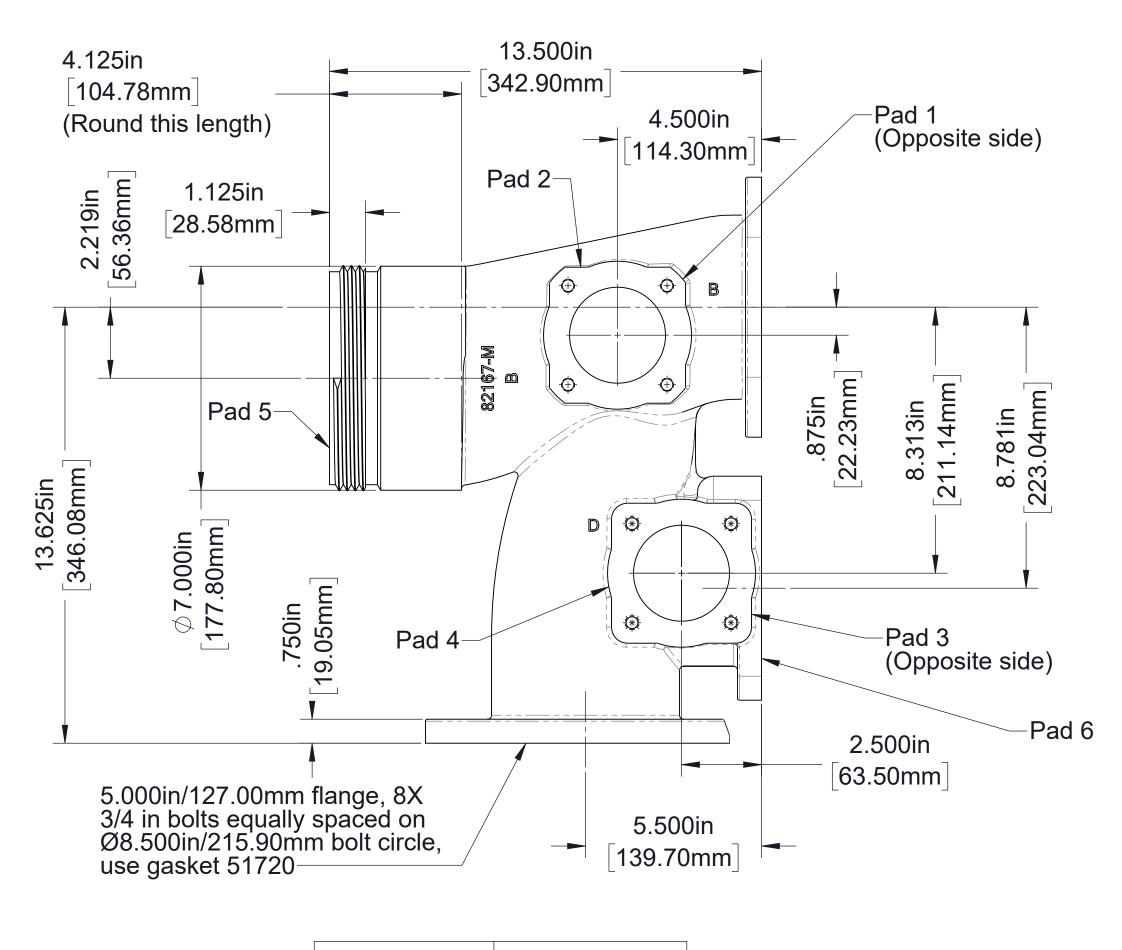
	Pad	d 1	Pa	ad 2	Pa	ad3	Pa	ad 4	Pa	d 5	Pa	d 6	
Part Number	Machined	Install Auxiliary Fittings	Thread Size										
82163	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						
82173	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						

- Notes:
 1. Threads are furnished as follows:
 (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. See page 8 for flange dimensions and side pad details.
 4. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Fitting 5



Fitting 6



Part Number	Thread Size
82174	6 in

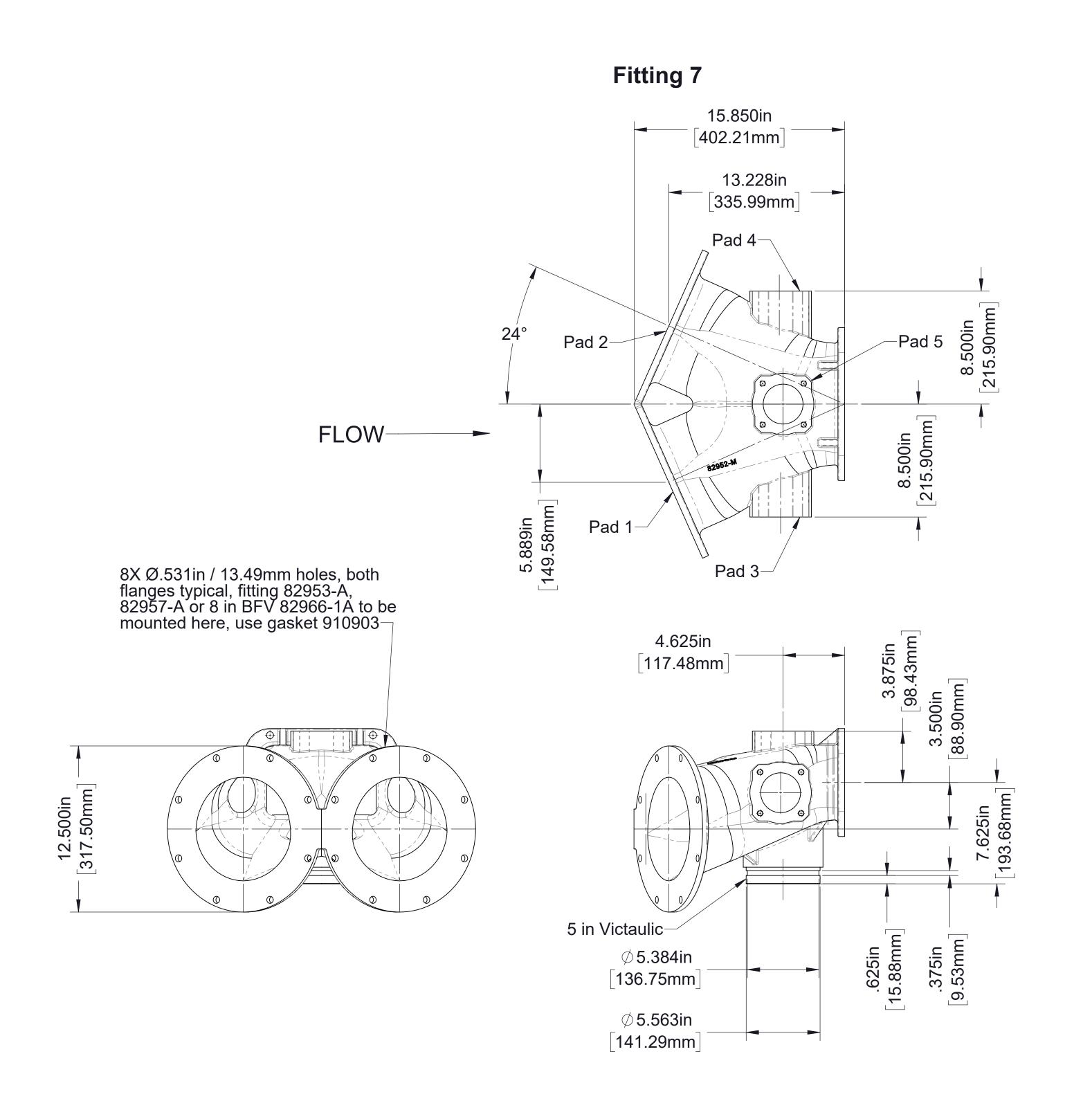
Machined Auxiliary Fittings Machined Auxiliary Fittings Machined Auxiliary Fittings Machined Auxiliary Fittings		Pad 1		Pad 2		Pad3		Pad 4		Pad 5		Pad 6		
	Part Number	Machined	Auxiliary	Thread Size										
	82166	4-Bolt	Type 1	6.0 THD	Type 13	4.0 RV	Type 15	6 in						
82174 4-Bolt Type 1 4-Bolt Type 1 1 4-Bolt Type 1 1 4-Bolt Type 1 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:

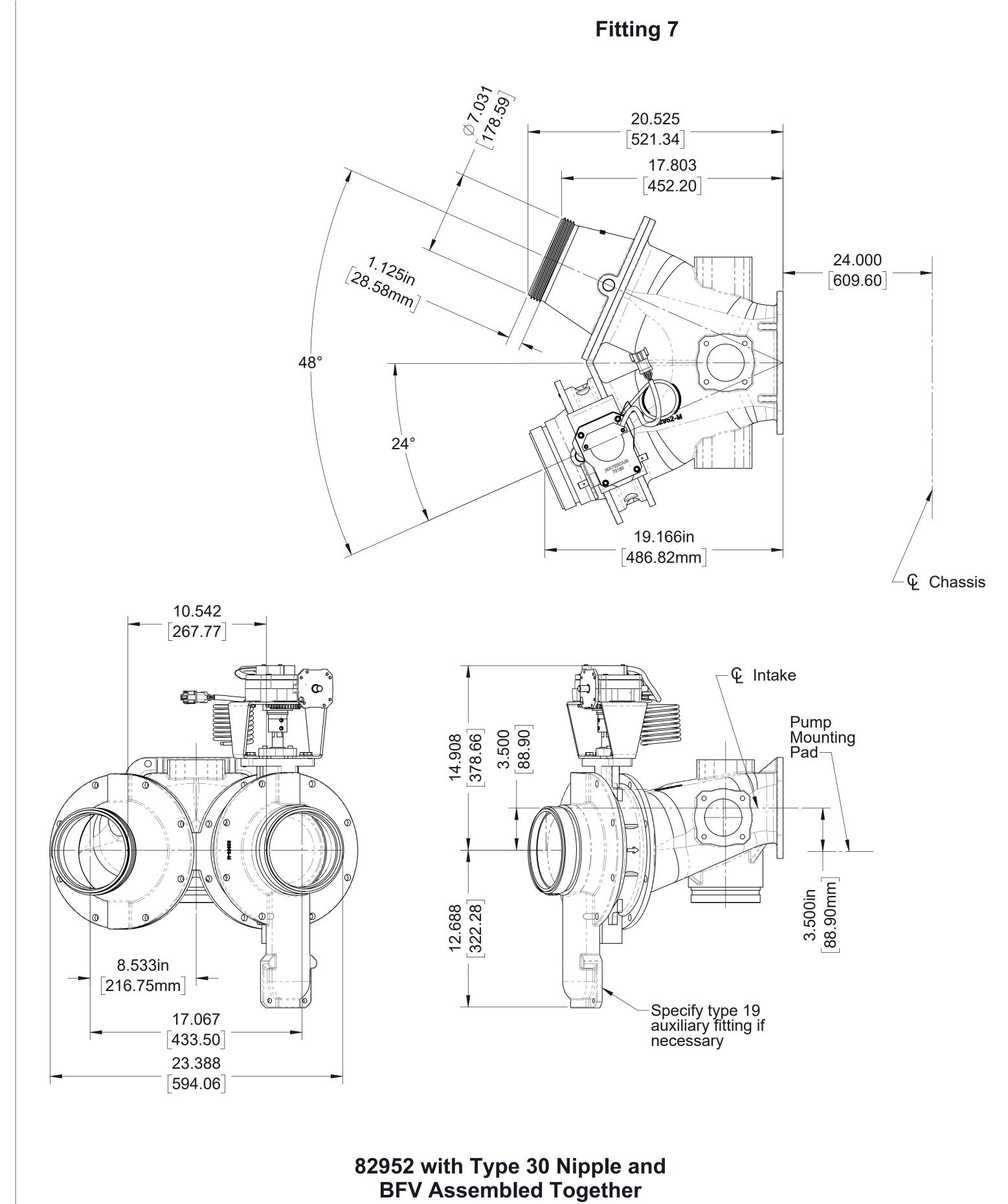
- Threads are furnished as follows:

 (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.
 See page 8 for flange dimensions and side pad details.
 See drawing DPL82088 for auxiliary fittings which may be installed on fitting pade.



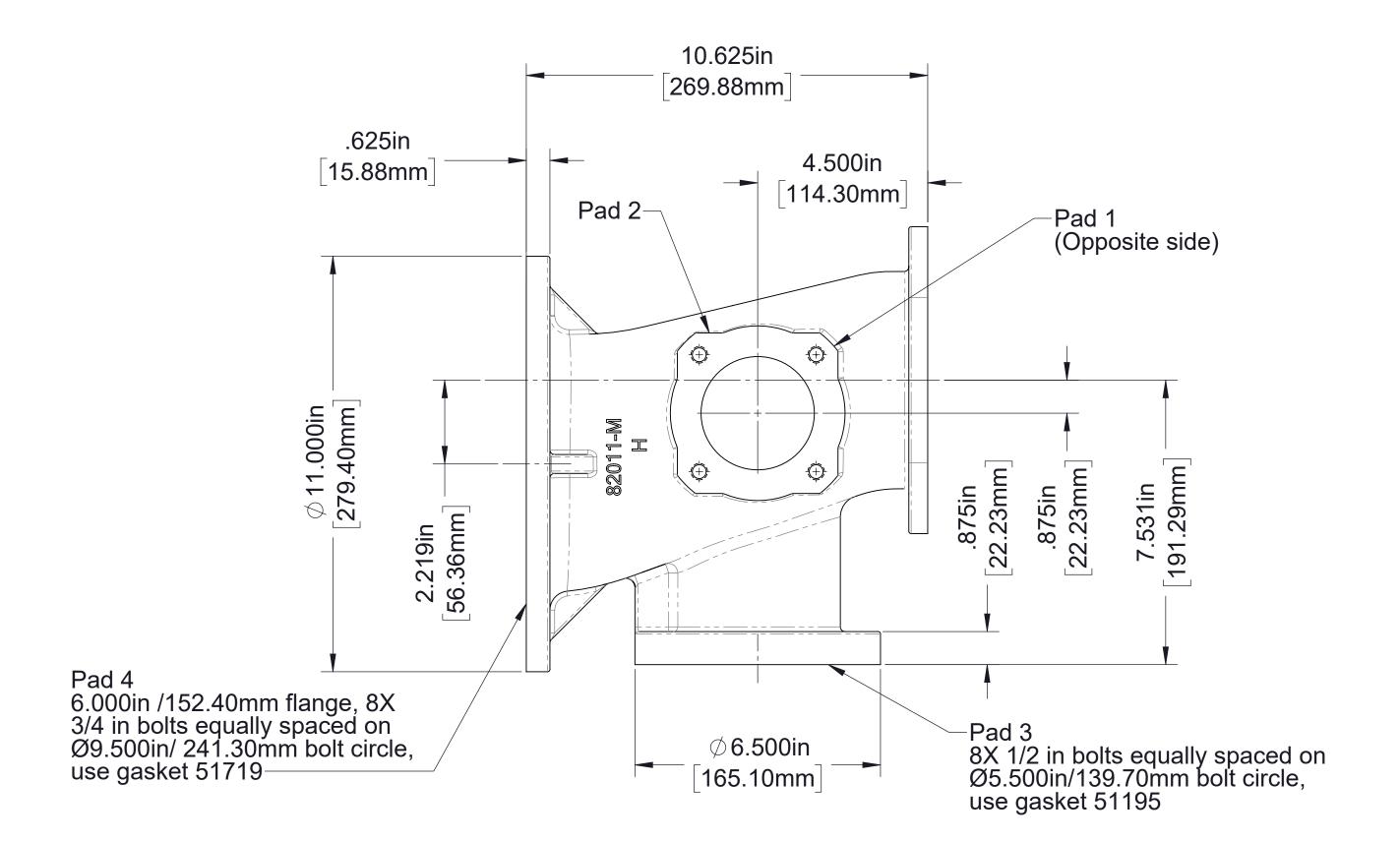
	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auciliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
82952	8 in ANSI	Type 30	8 in ANSI	Type 30	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt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

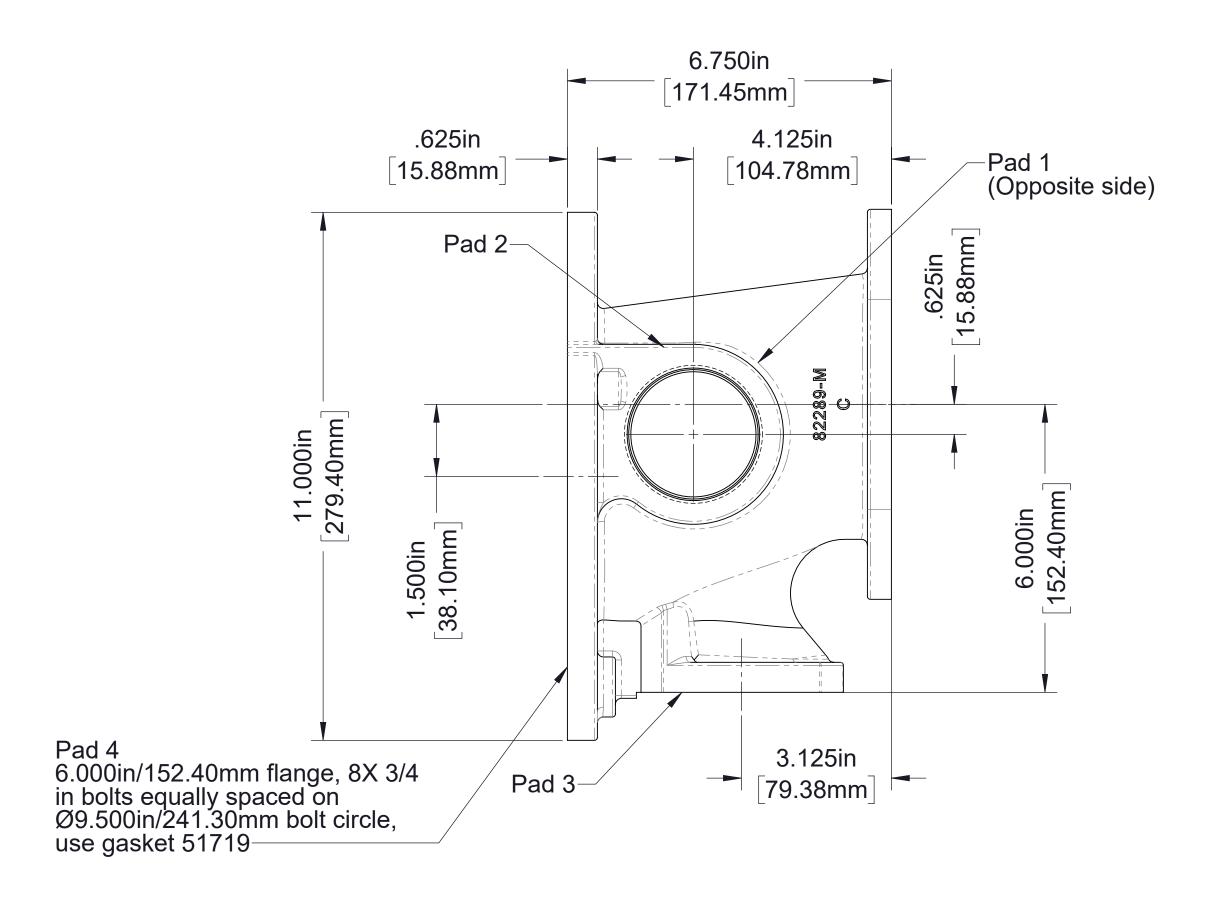
Section 2 - Pant Leg Intake Fitting

Fitting 8



Part Number	Flange Size
82011	6 in

Fi	tti	n	q	9
			J	_

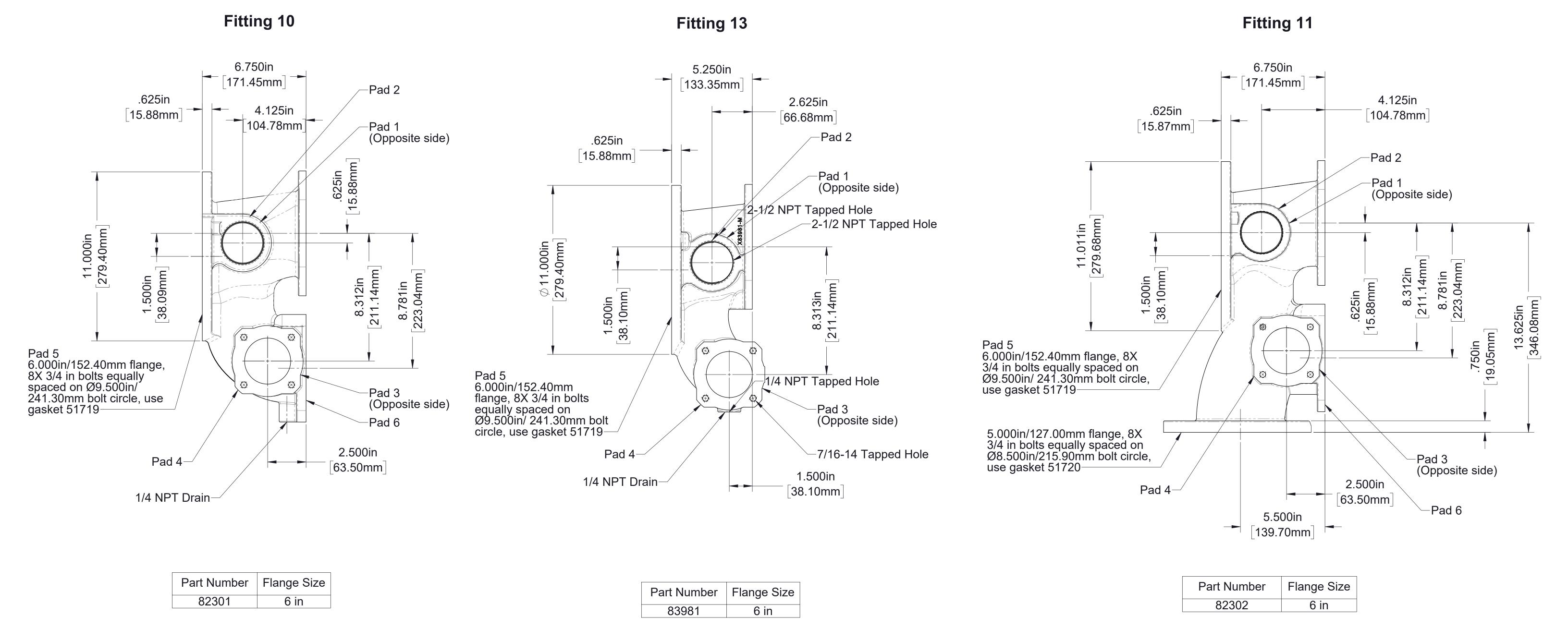


Part Number	Flange Size
82289	6 in

	Pad 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. See page 8 for flange dimensions and side pad details.2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section 2 - Flanged Intake Fitting

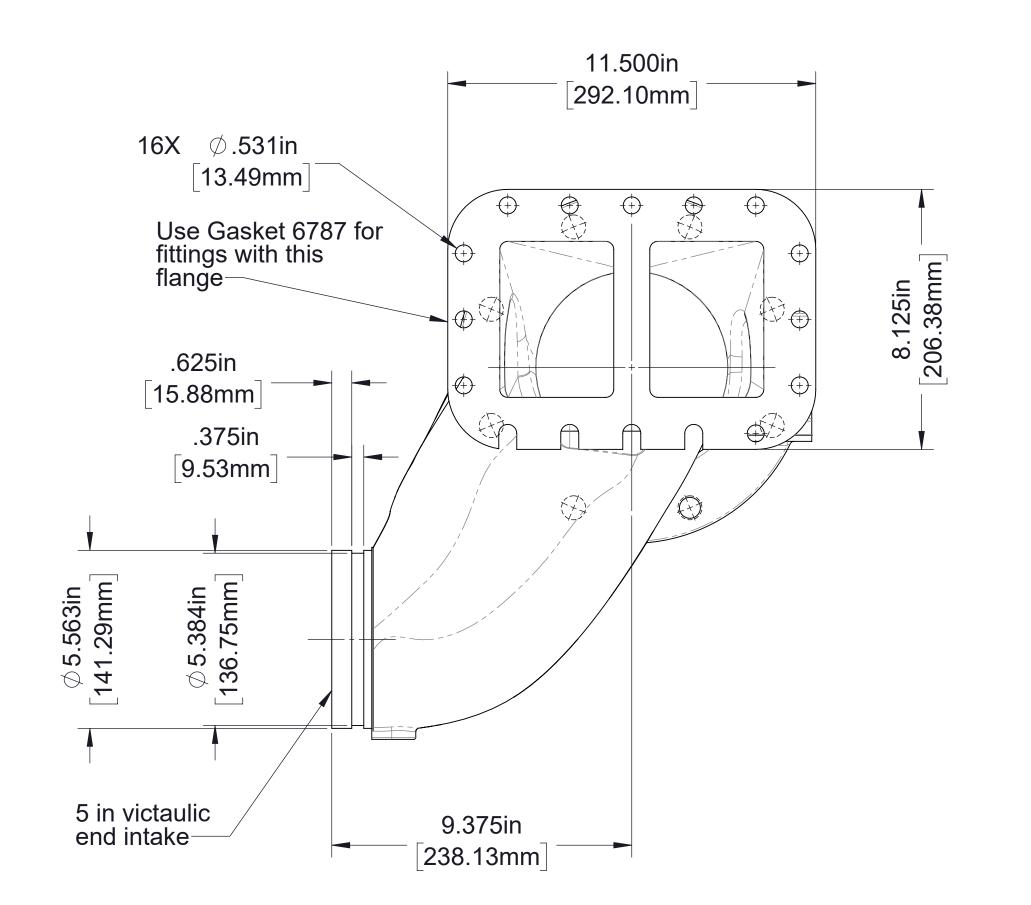


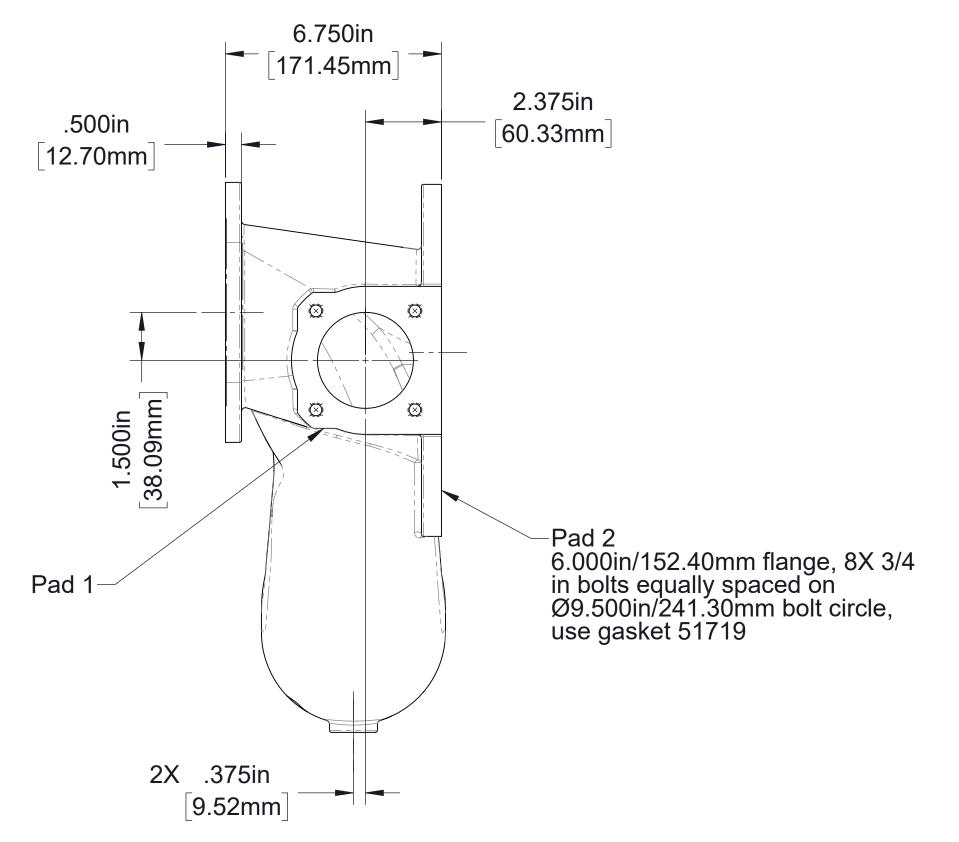
	Pad	1 1	Pac	12	Pac	13	Pad	d 4	Pad	d 5	Pad	d 6	
Part Number	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Flange Size
82301	2-1/2 NPT	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
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
83981	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			6 in

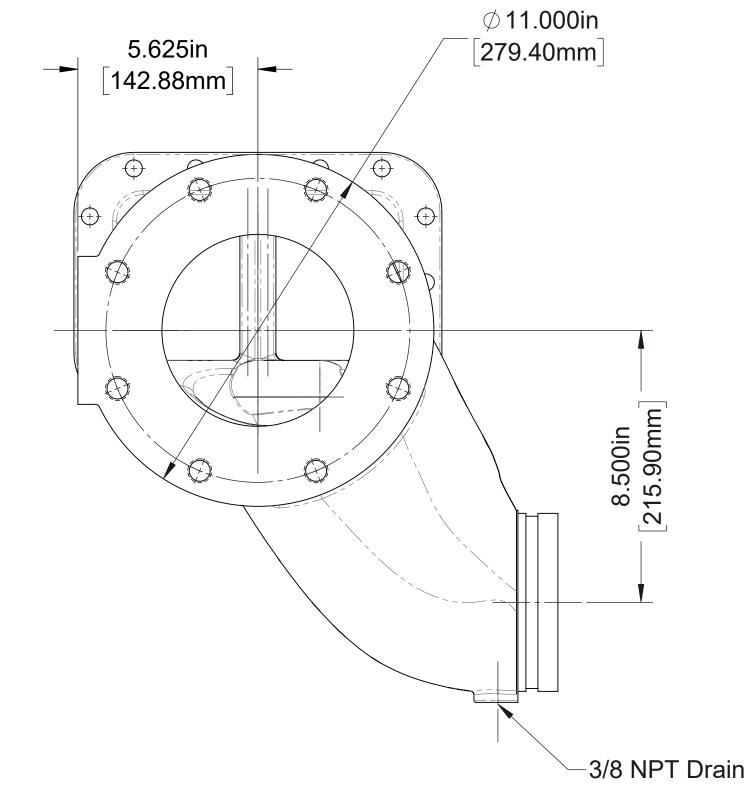
Notes

See page 8 for flange dimensions and side pad details.
 See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Fitting 12





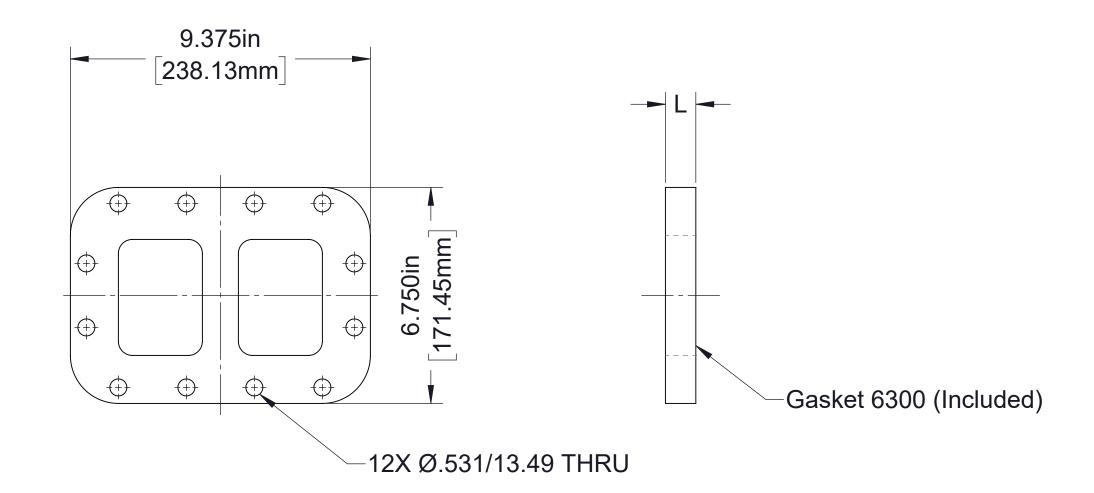


Part Number	Flange Size
83041	6 in

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

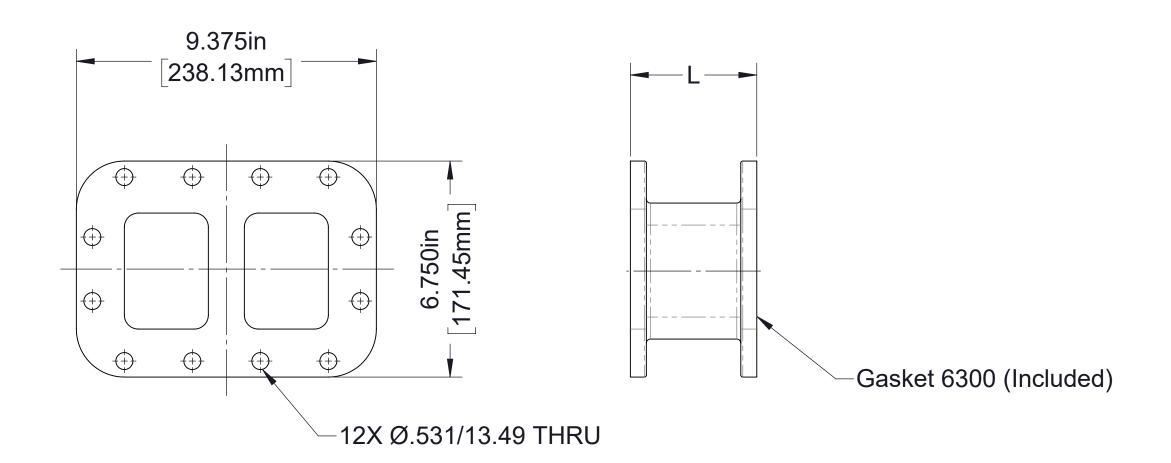
Notes:1. See page 8 for flange dimensions and side pad details.2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

Section 2 - Flanged Intake Fitting



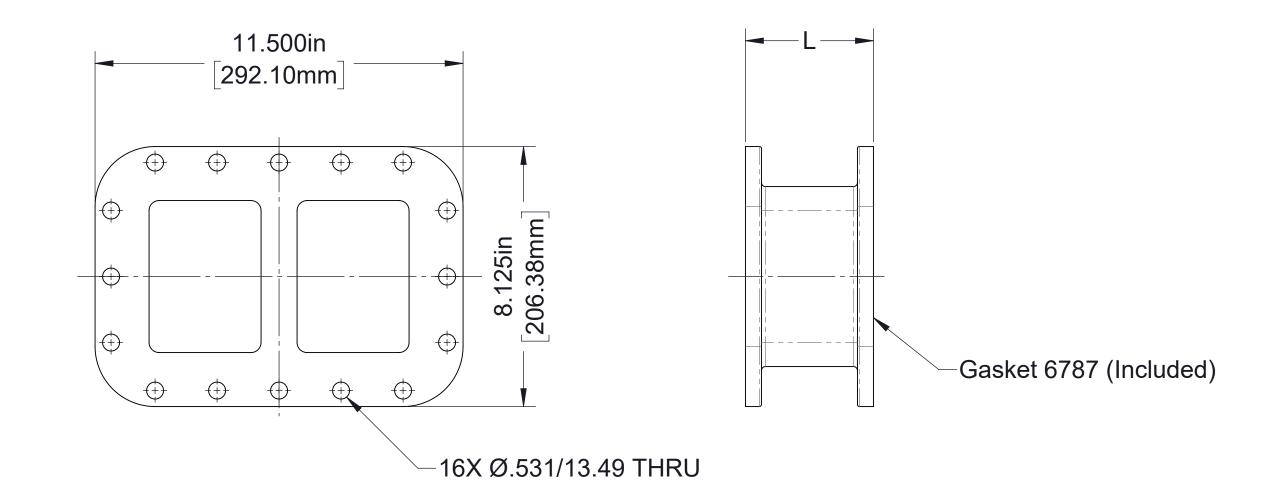
Part Number	L	Studs Required	Use With Relief Valve Extension
5002-A	1.000/25.40	(4) 51268	61647-A

(Use with section 1 intake fittings on DPL81867)



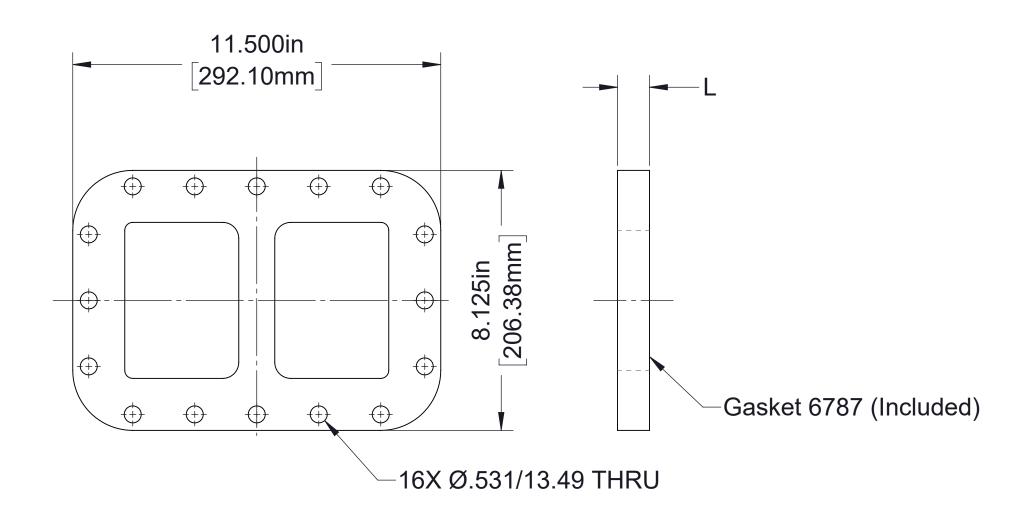
Part Number	L	Use With Relief Valve Extension	
5005-A	4.000/101.60	61646-A	

(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)



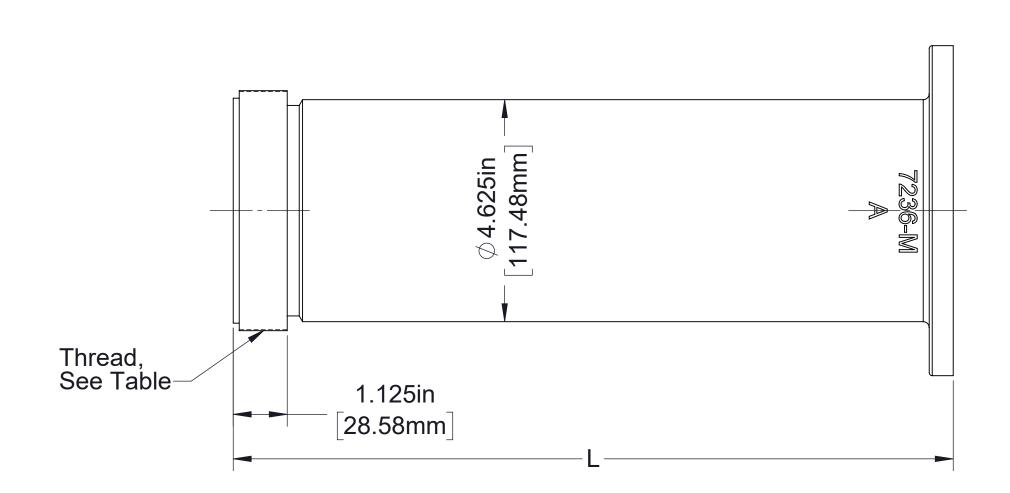
Part Number	L
73616-A	1.000/25.40

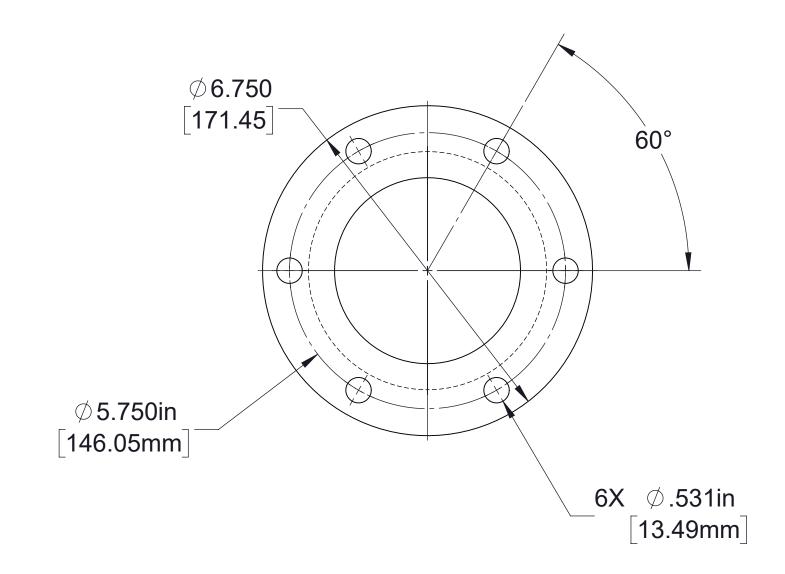
Spacer required when relief valve is mounted on pump, see Type 15 - fittings for 4 in relief valve pads DPL82088

Section 3 - CM and CS Pump Intake Extensions

Note: These fittings are used on CM, CMU, CS, and CSU pump models only

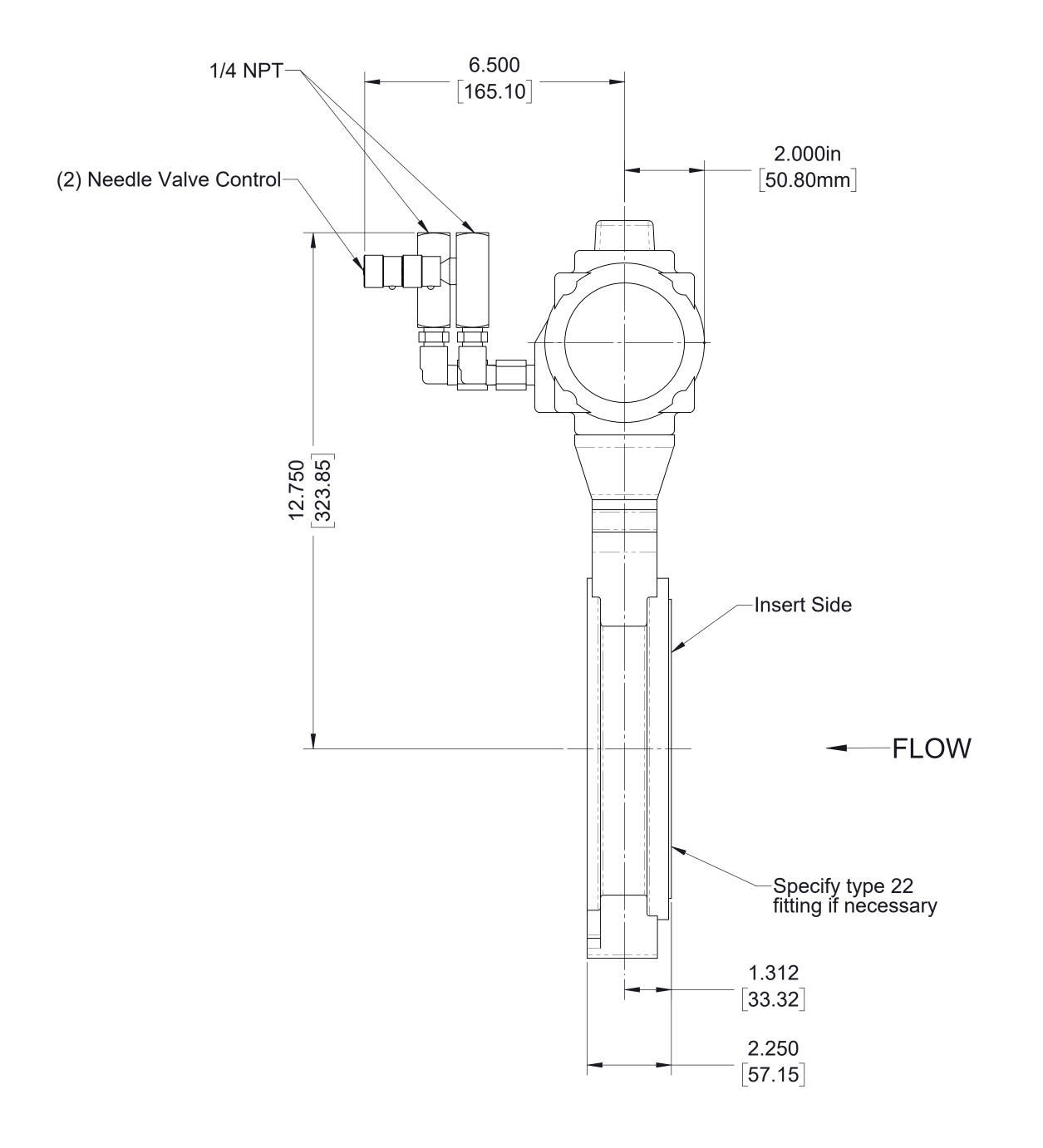
Fitting 1

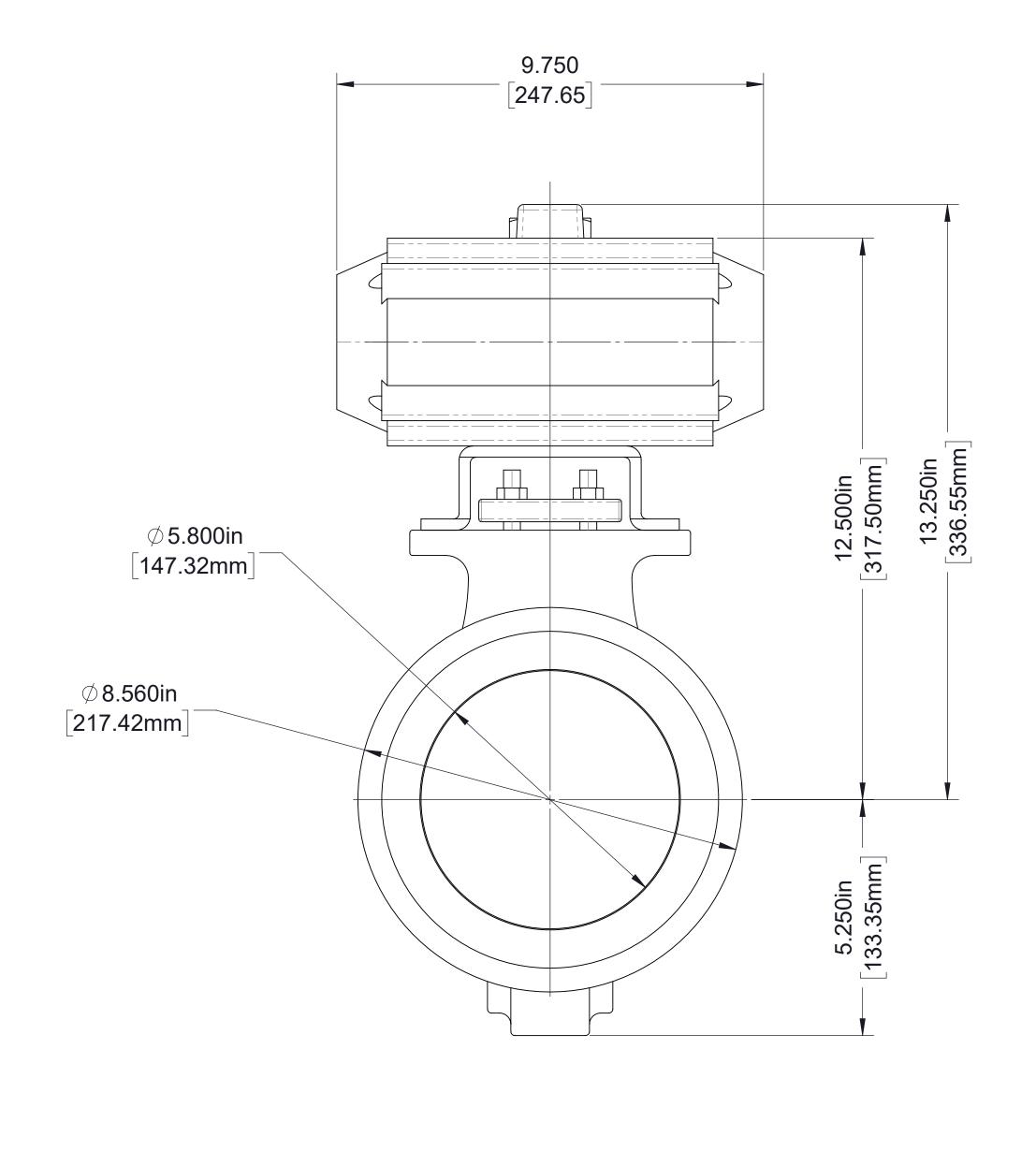




Thread Size	Part Number	L	Includes Gasket	
	Iron			
4 in NH	7235-15A	15.000/381.00	5766	
4-1/2 in NH	7236-15A	15.000/381.00	5766	

Section 4 - Intake Fitting (Model CLS Intake Fitting)

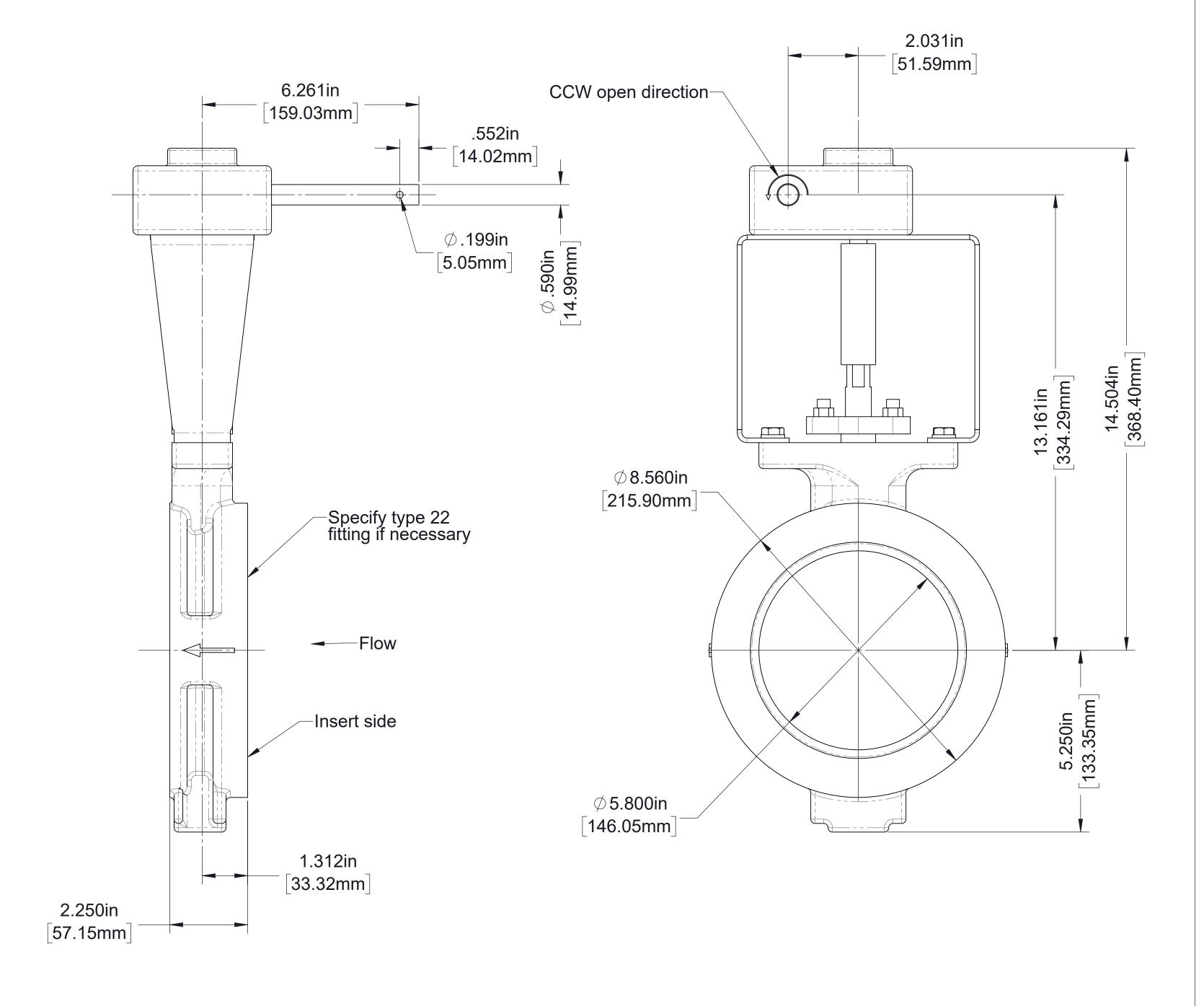




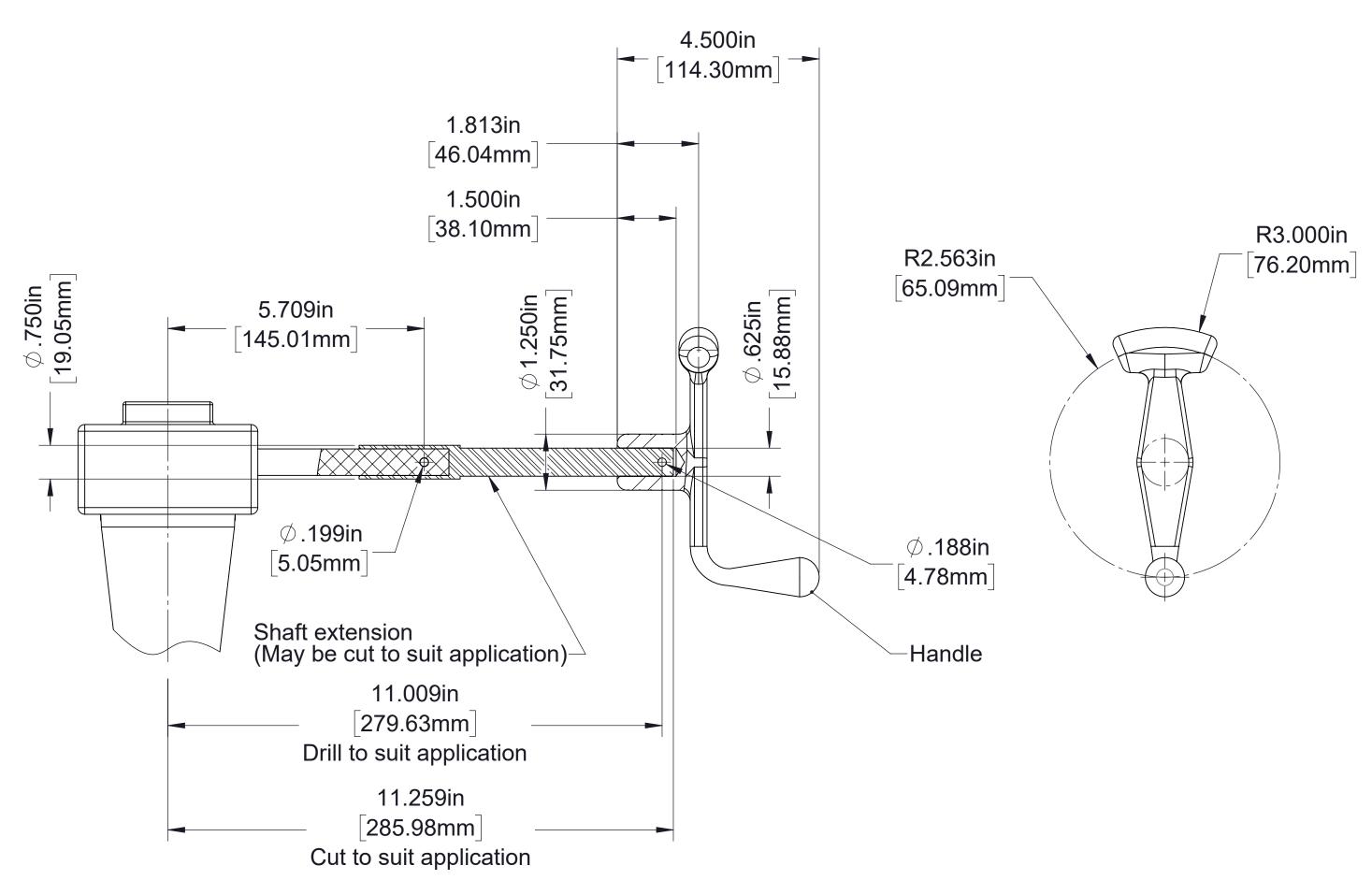
Pneumatic Actuator

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



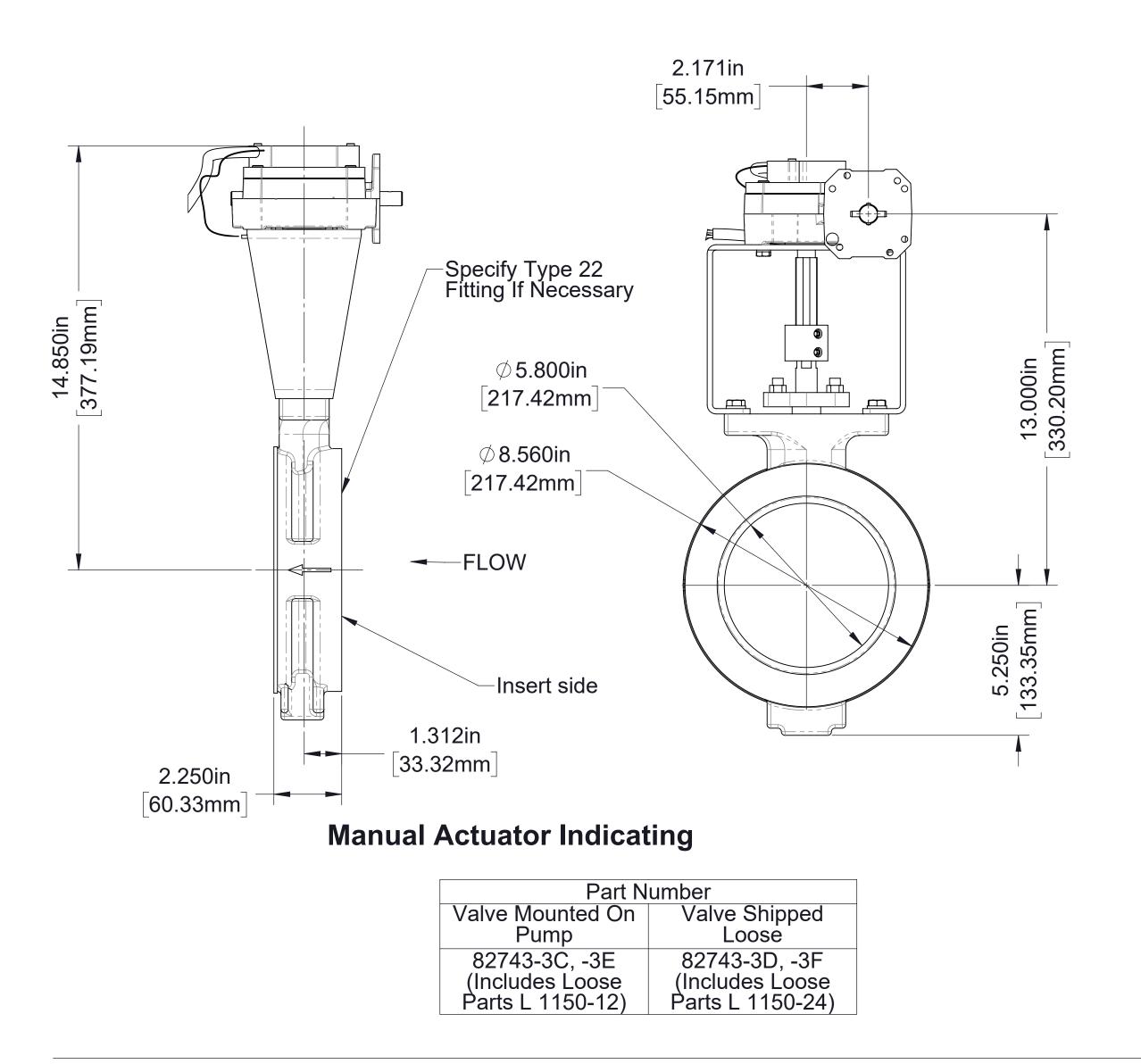
Manual Actuator Non-Indicating

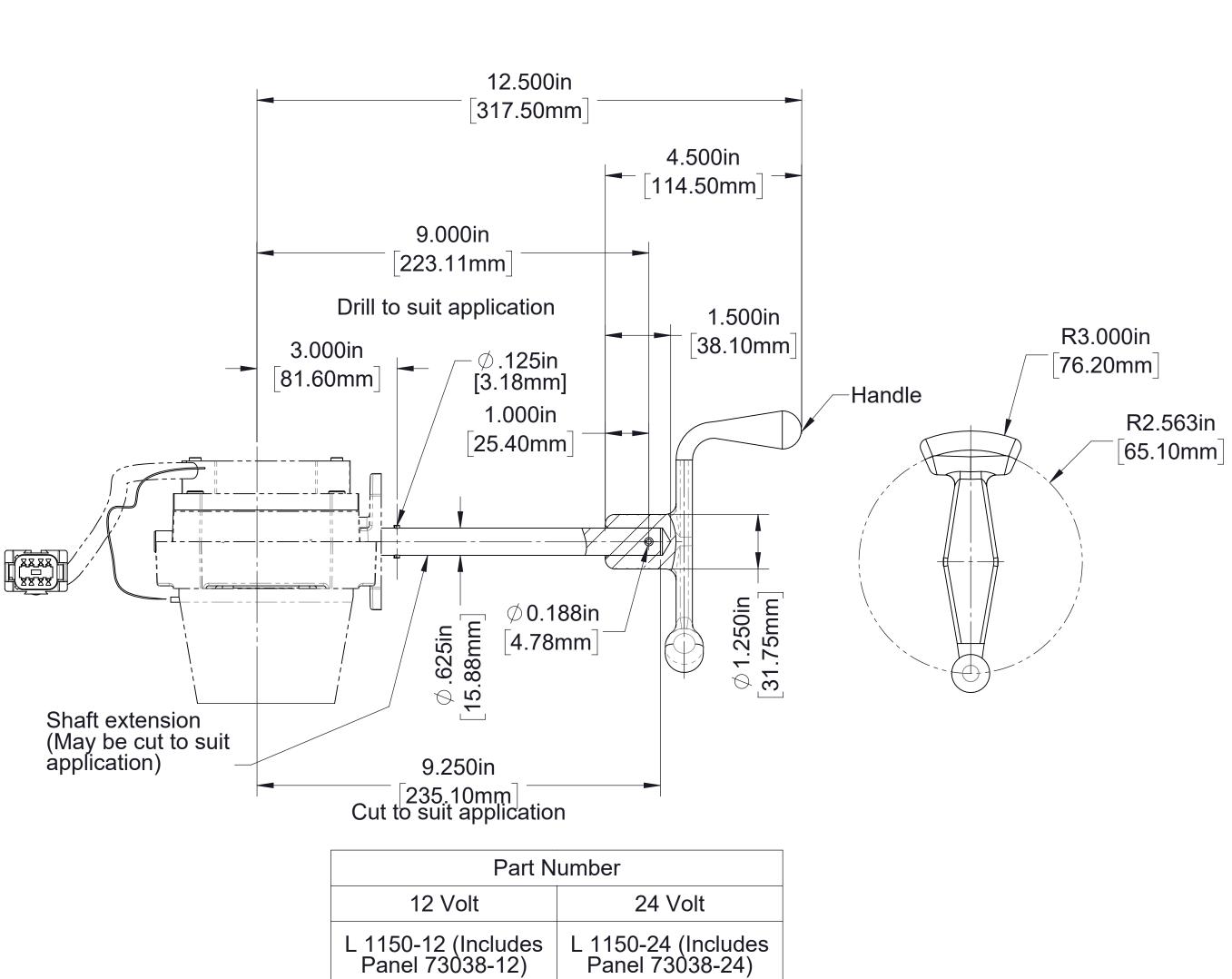


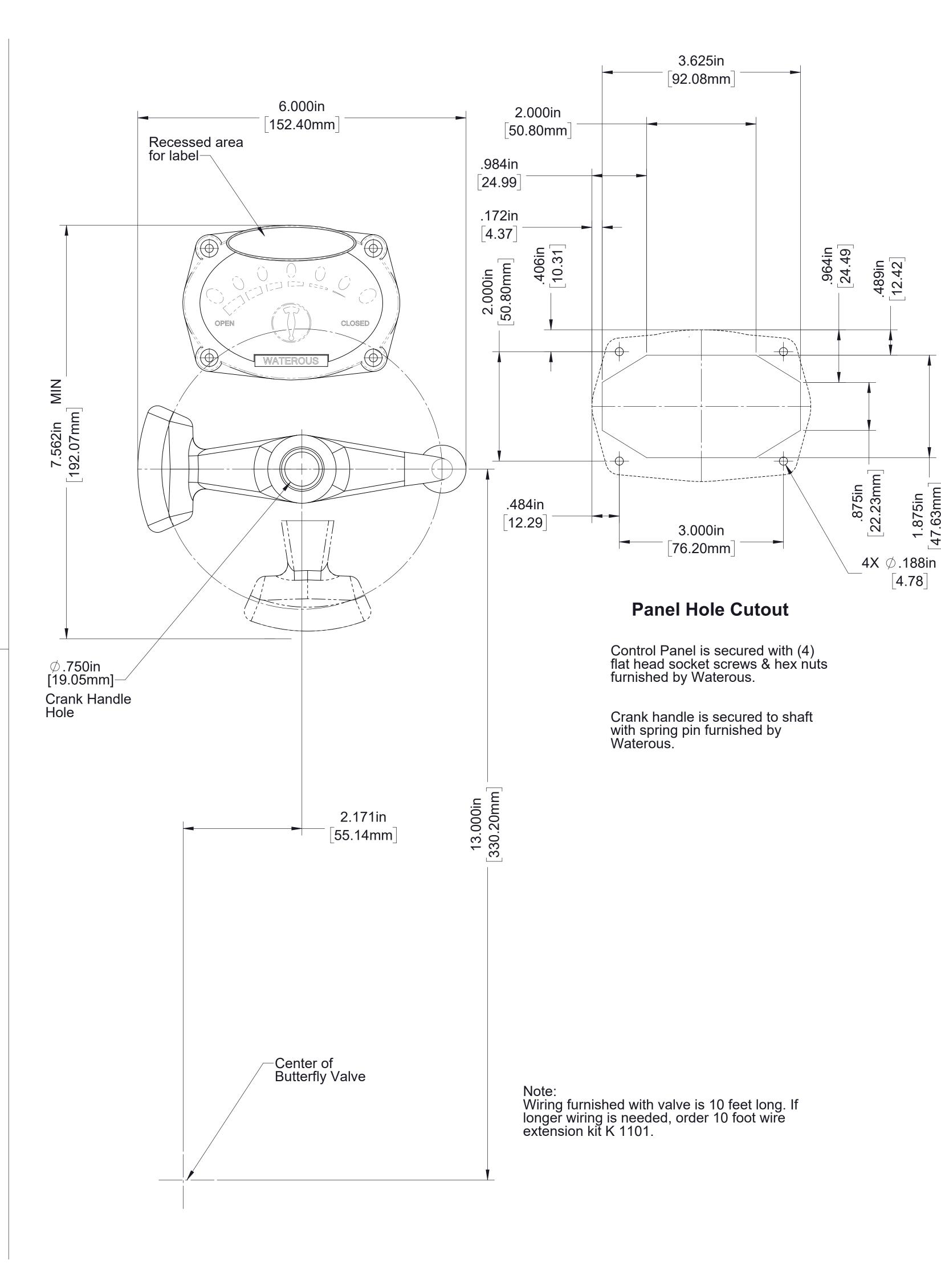
Manual Butterfly Valve Handle Kit (Furnished with each Non-Indicating Manual Valve)

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

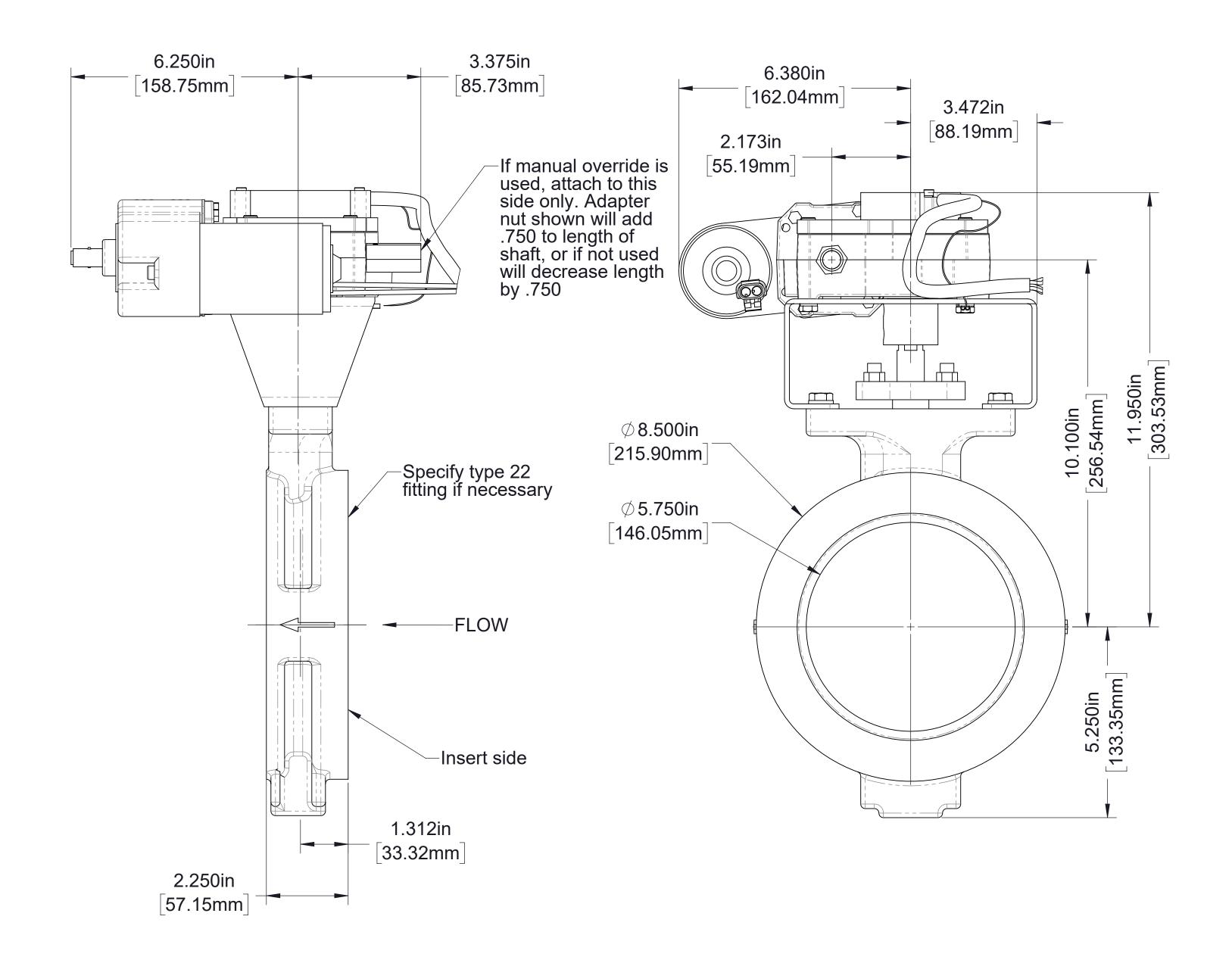
Order Part Nu	Order Part Number as Required					
Part	Number					
Valve Mounted On Pump by Waterous	Valve Shipped Loose					
82743-3P (Includes handle kit K1269)	82743-3R (Includes handle and gasket kit K1269-1)					



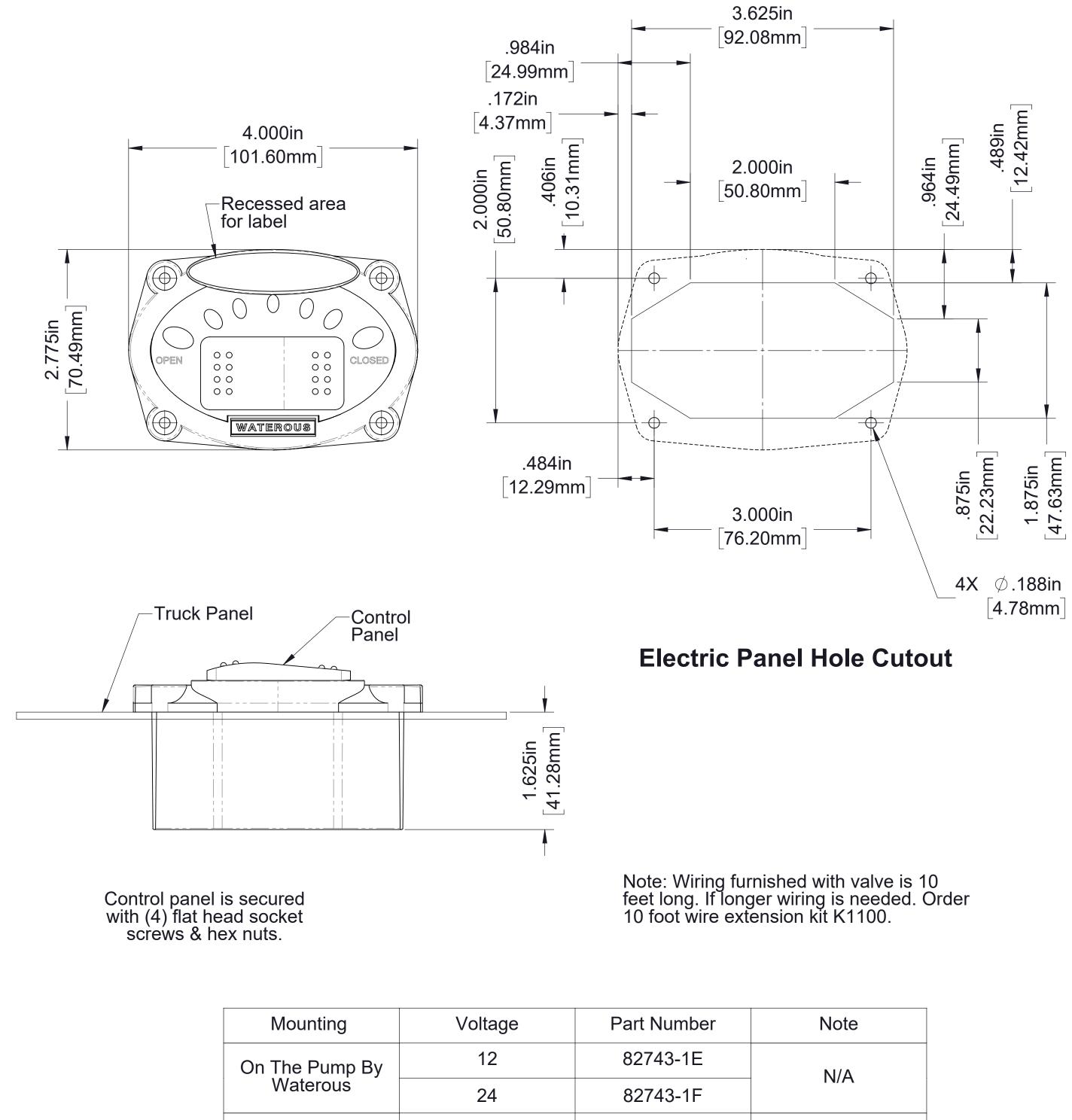




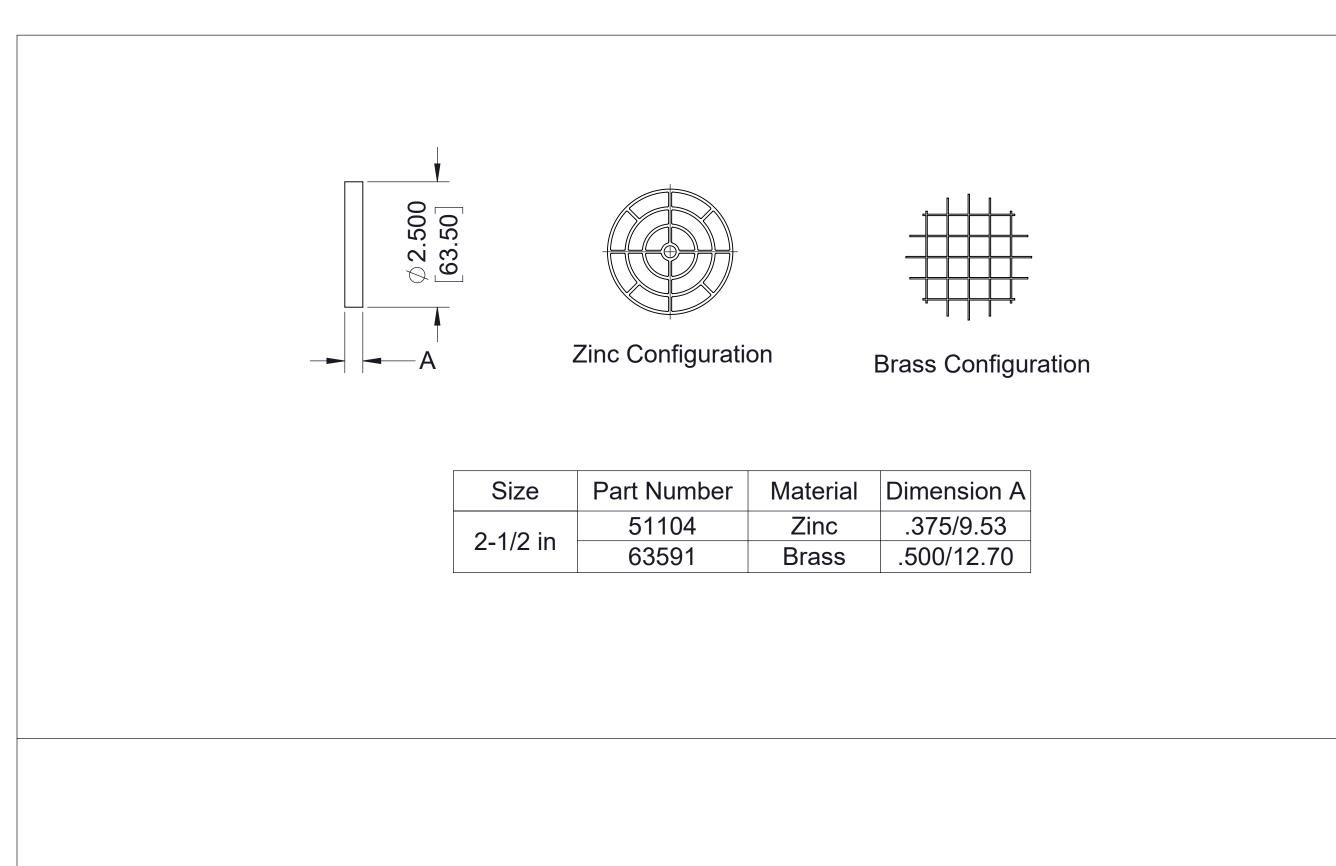
Section 5 - Intake Fittings for CXN Pumps Jamesbury 6 in Manual Indicating Butterfly Valve



Electric Rotary Actuator



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

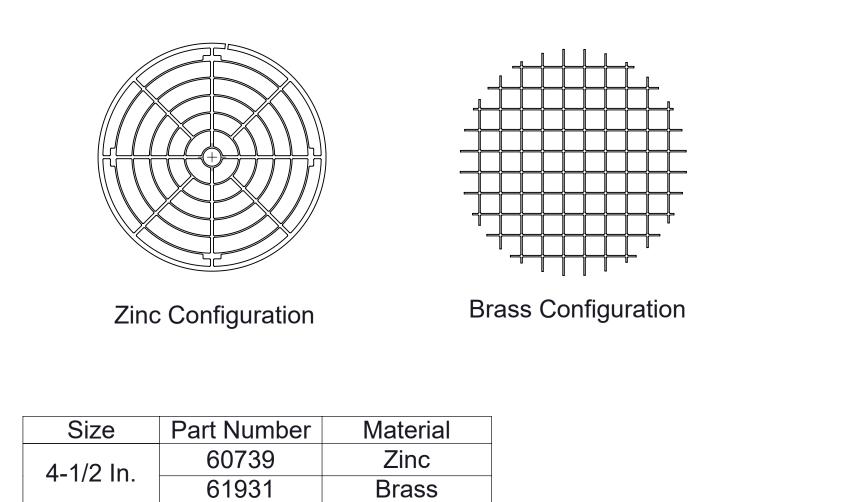


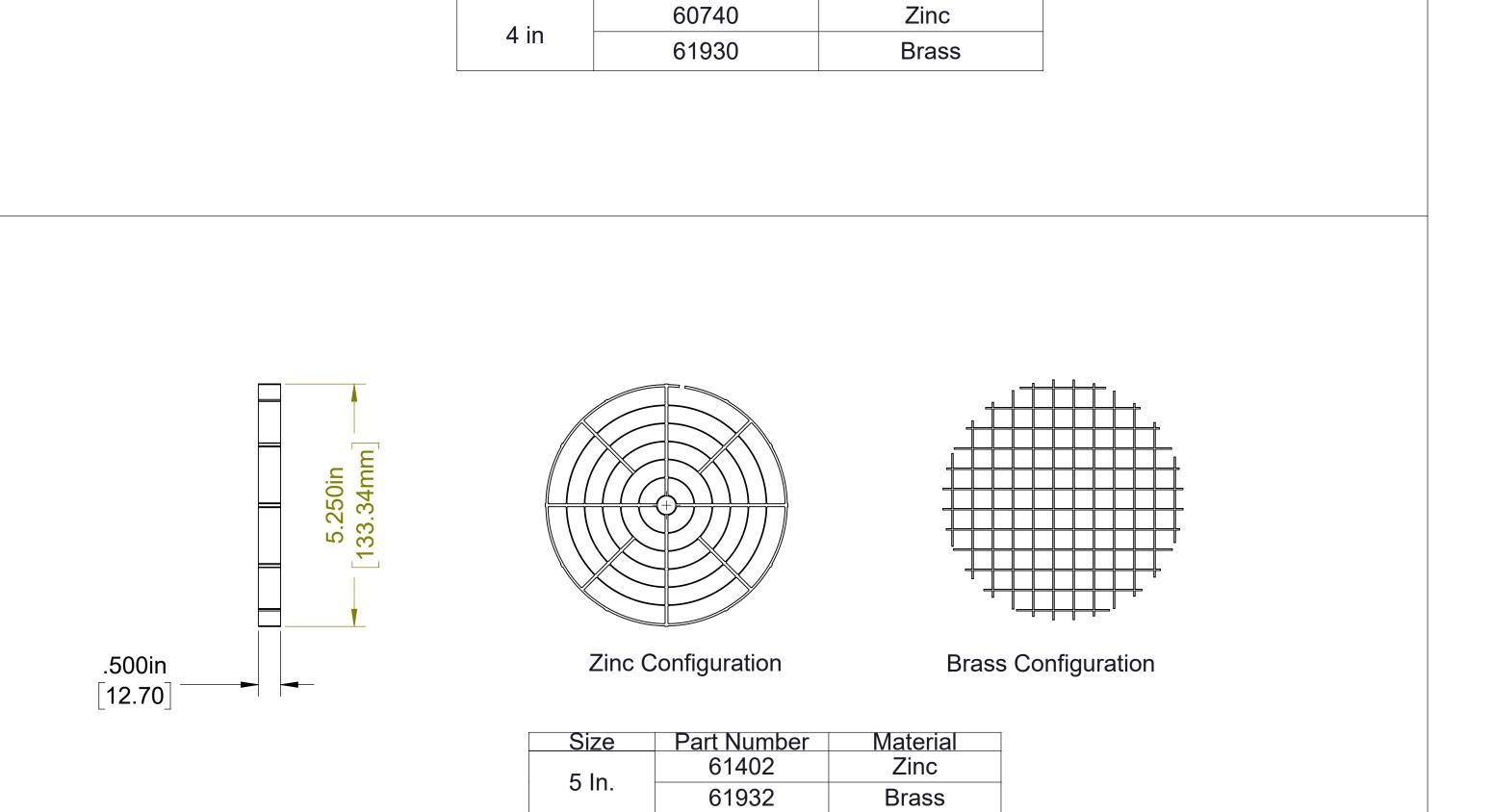
61931

⊘4.750in [120.65mm]

.500in

[12.70mm] [—]





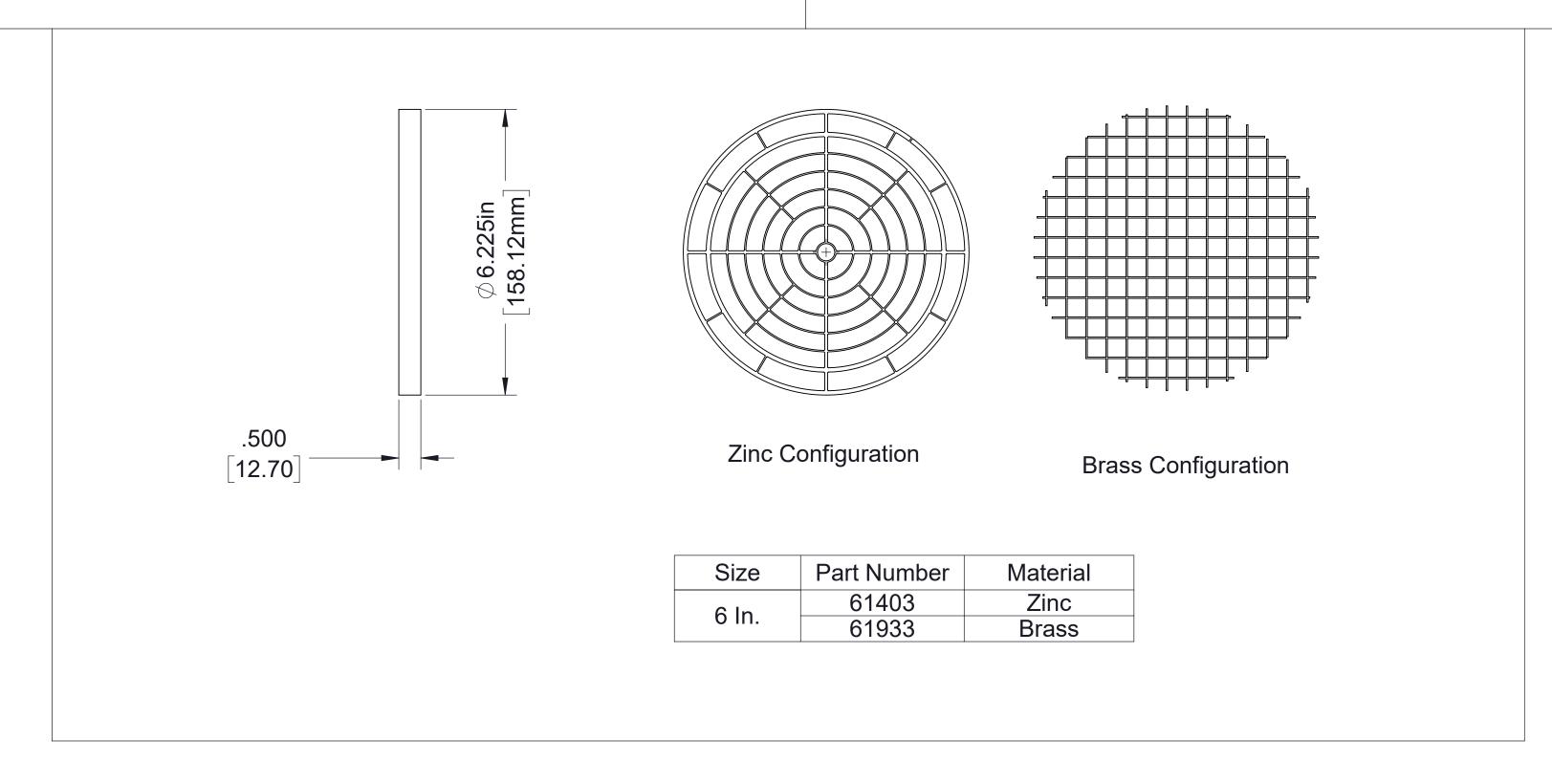
Zinc Configuration

Part Number

Size

Brass Configuration

Material



Section 6 - Intake Screens

.500 [12.70]