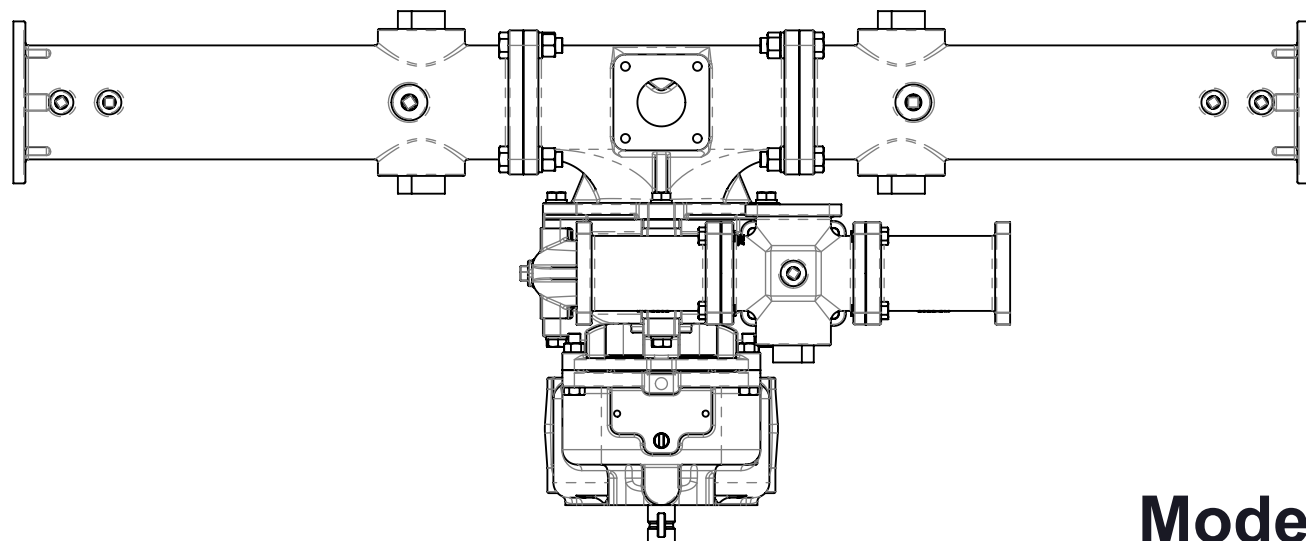
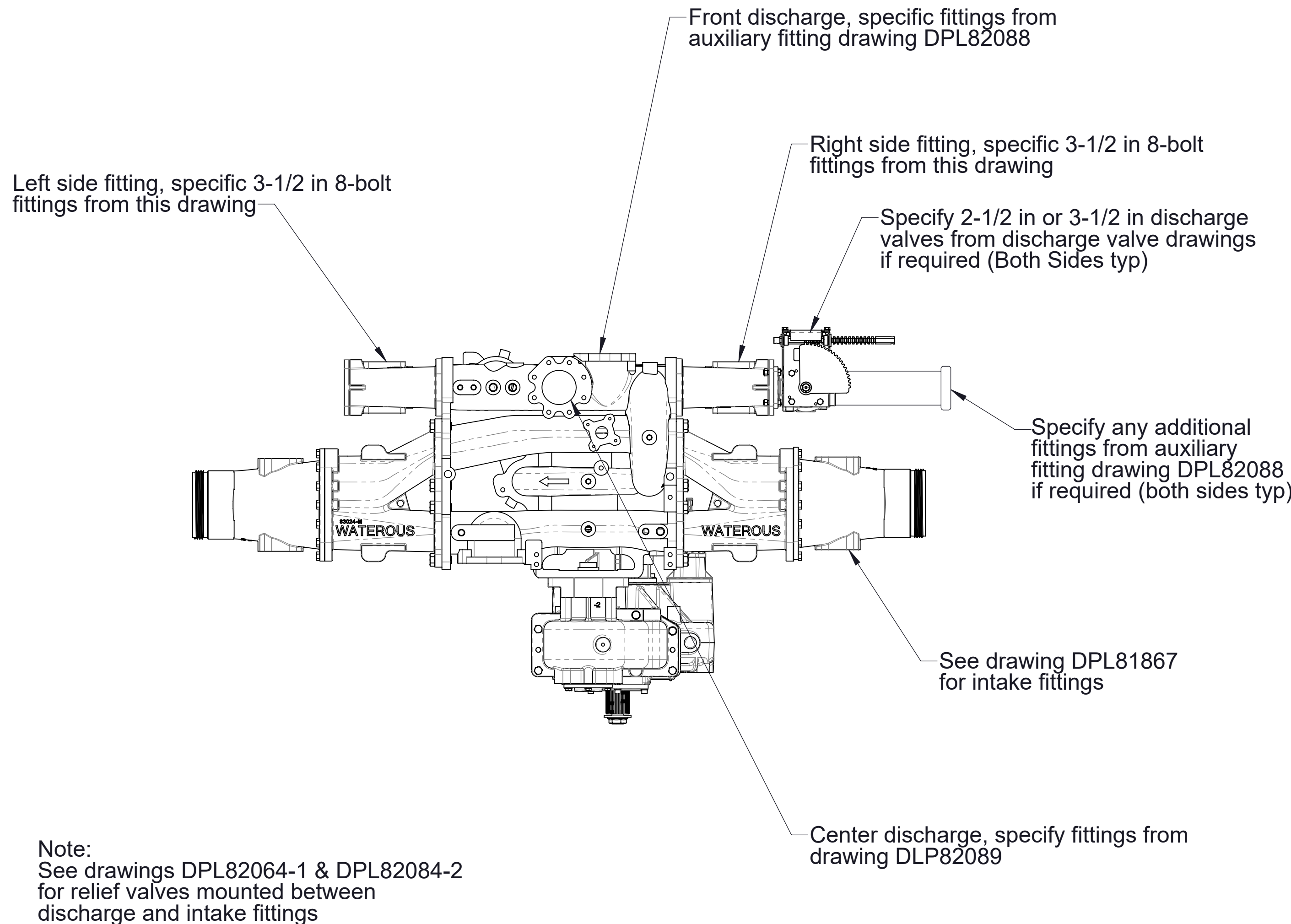
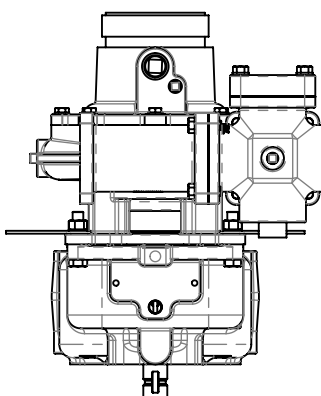
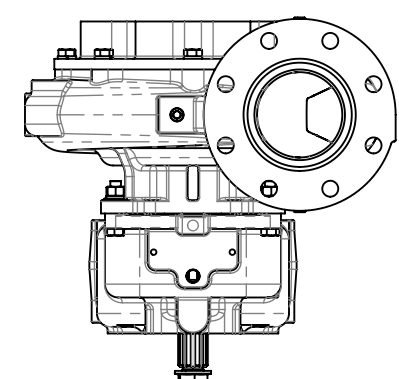
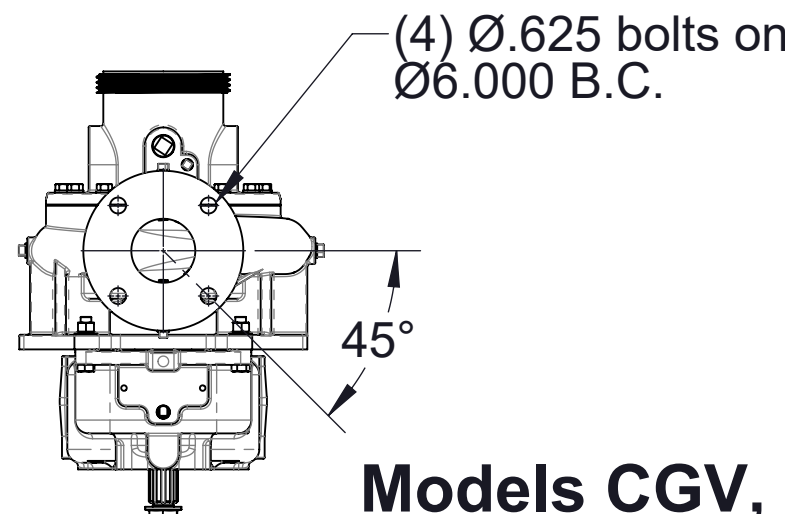
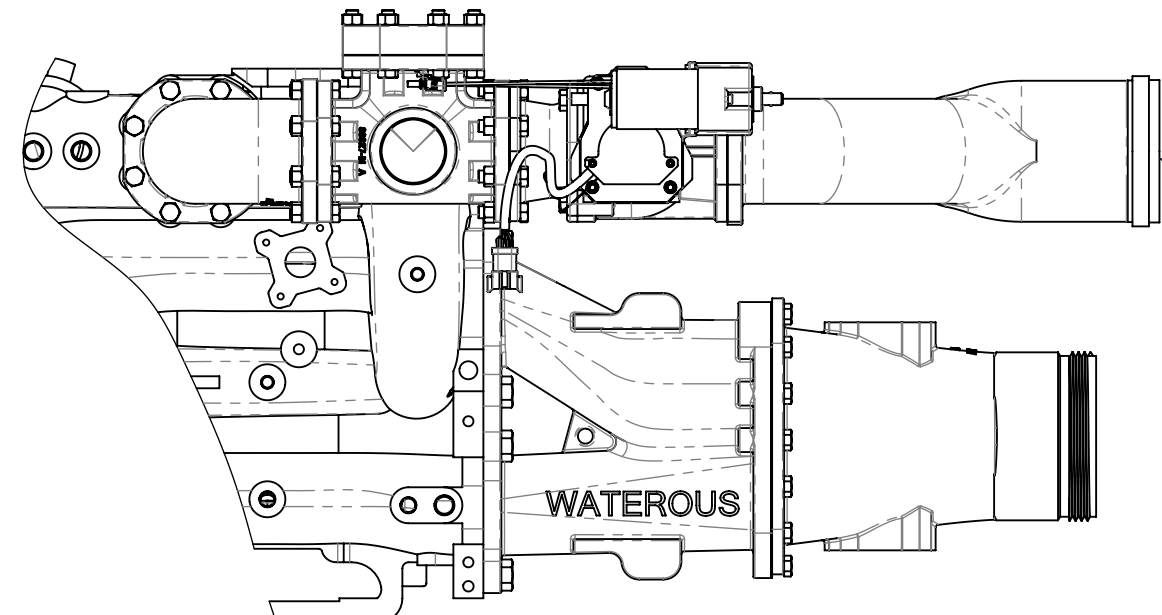
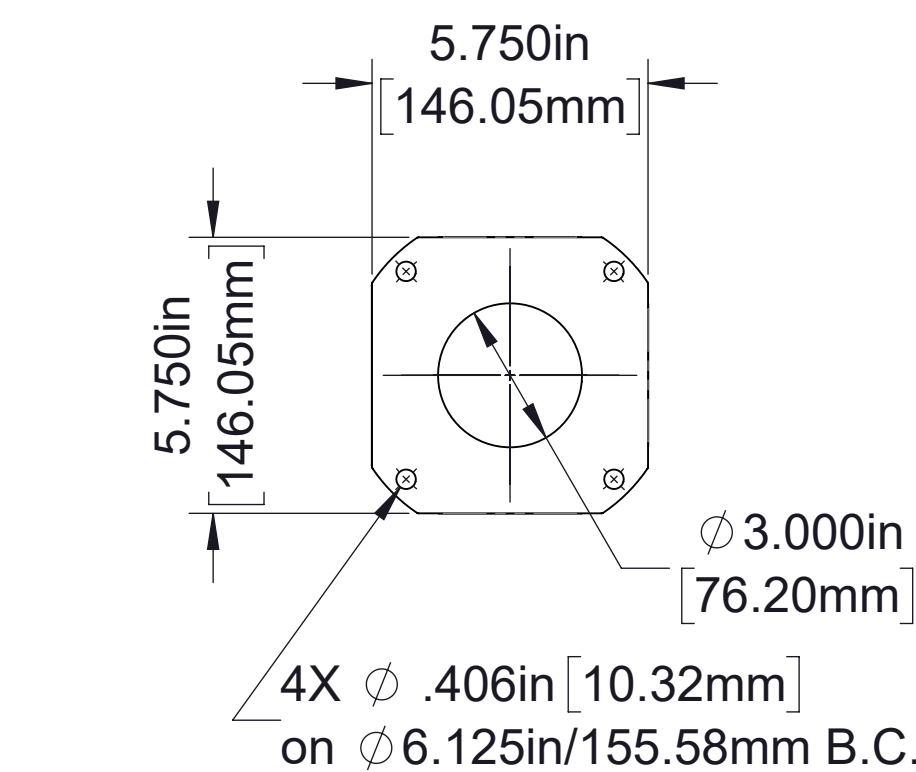
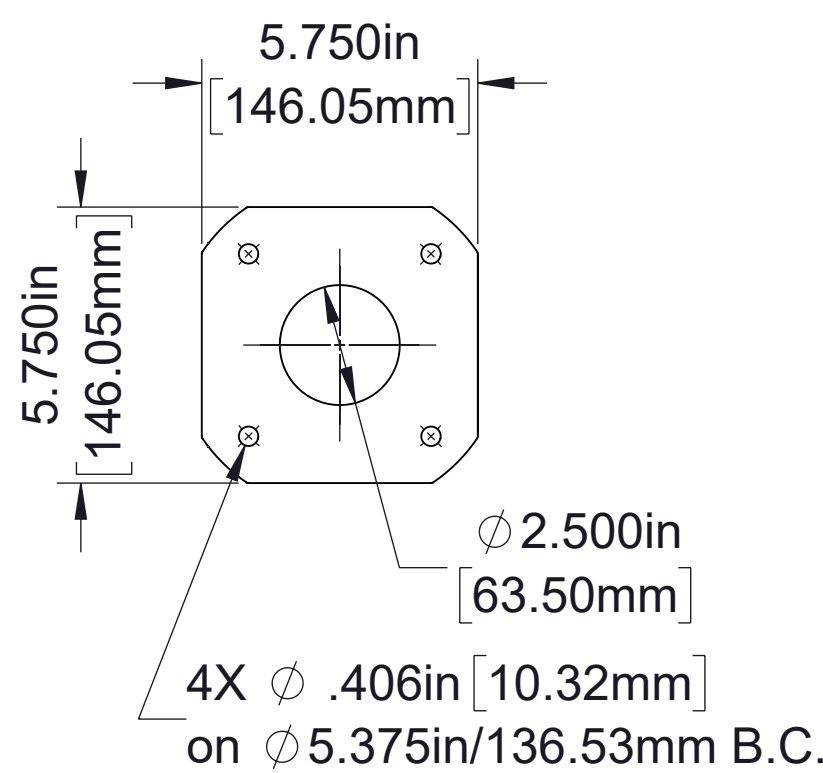
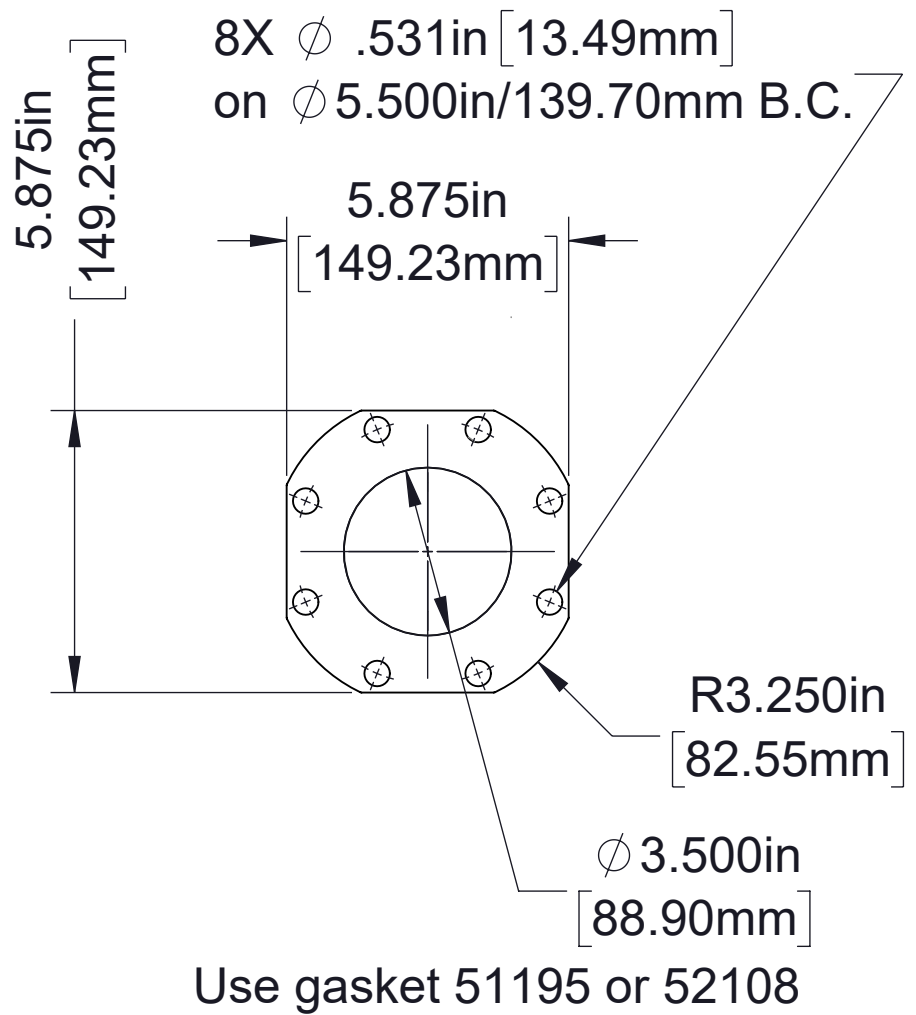
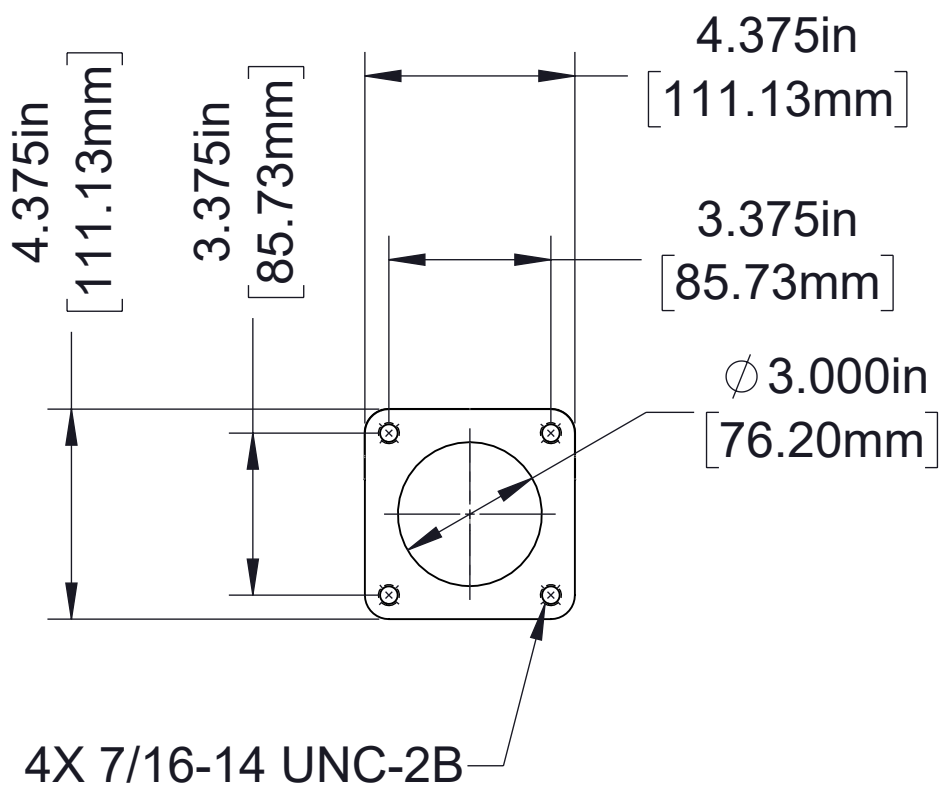
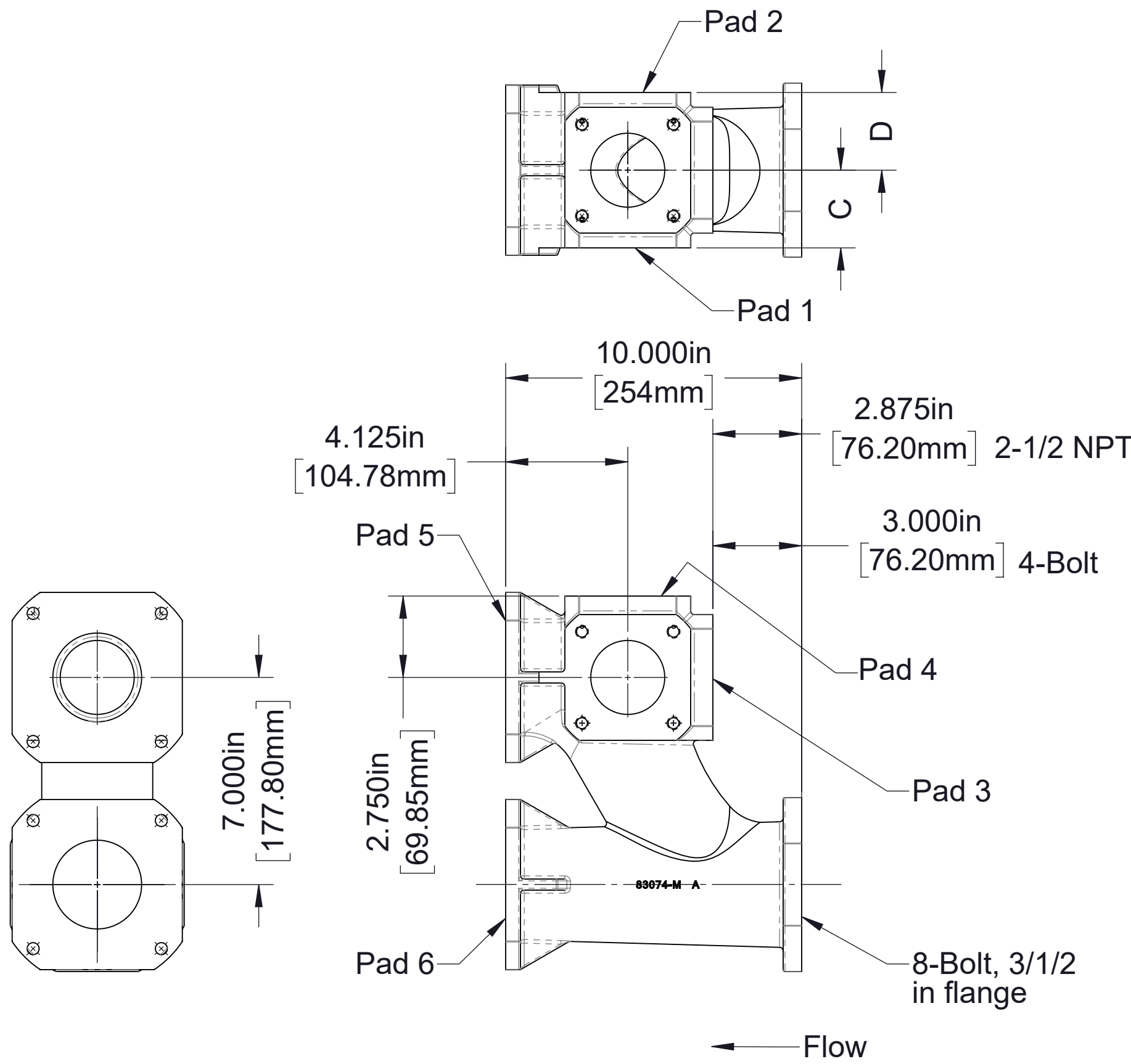
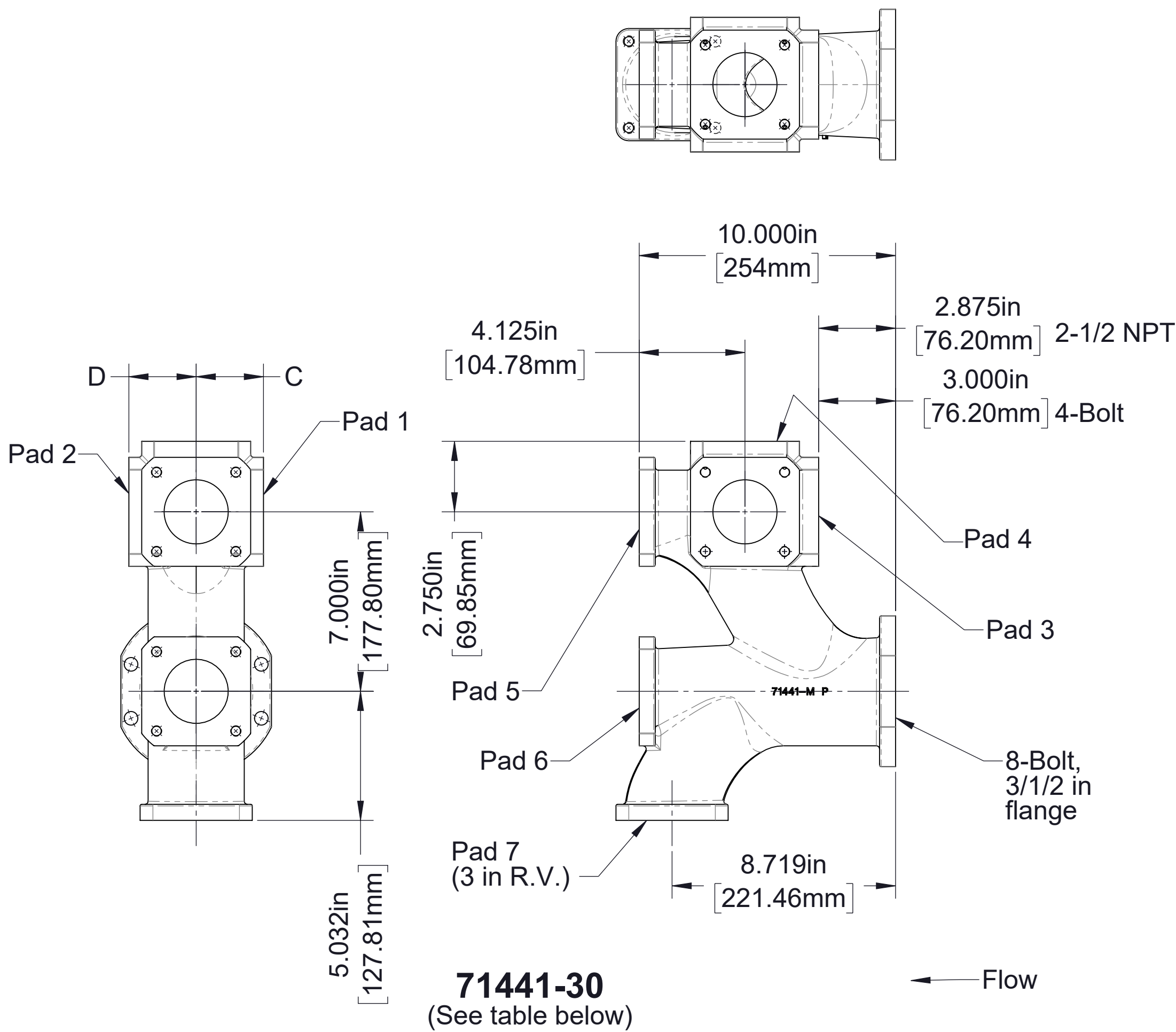


Discharge Fittings Dimensional Drawings

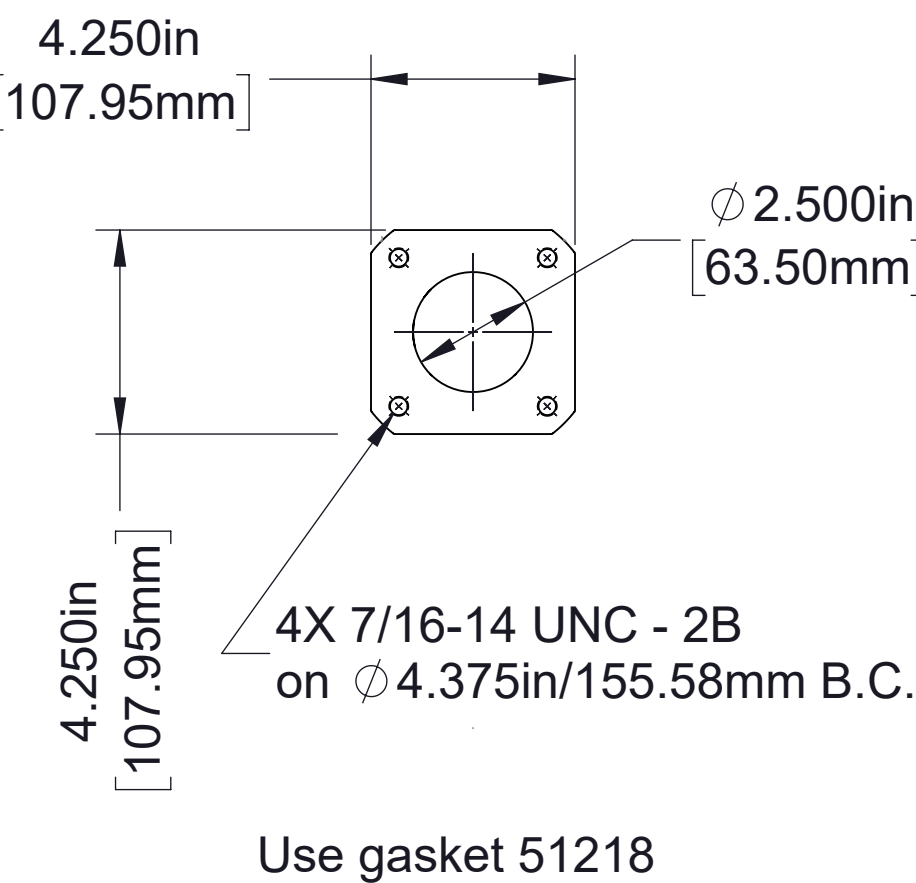
The pumps listed below do not require fittings from this drawing and are shown for reference only		Specify fittings from this drawing to be mounted directly on the pump discharge flanges as follows:	
<div></div> <p>Specify 2-1/2 in discharge valves from discharge valve drawings or 2-1/2 in 4 bolt fittings from this drawing fitting drawing DLP82088.</p> <p>Model CLS</p>		<div></div> <p>Note: See drawings DPL82064-1 & DPL82084-2 for relief valves mounted between discharge and intake fittings</p>	
<div></div> <p>Specify 2-1/2 in discharge valves from discharge valve drawings or 2-1/2 in 4-bolt fittings (if required) from this drawing</p> <p>Models CLR, CLV</p>			
<div></div> <p>Specify 2-1/2 in and/or 3-1/2 in discharge valves from discharge valve drawings or specify 3-1/2 in 8-bolt or 2-1/2 in 4-bolt fitting from this drawing or pump has a 4 in ANSI flange discharge which the customer must fabricate piping for.</p> <p>Models CXR, CXV, CXN</p>			
<div></div> <p>(4) Ø.625 bolts on Ø6.000 B.C.</p> <p>45°</p> <p>These pumps have a flanged discharge, customer must fabricate piping or a 4 in Victaulic adapter is available which is ordered with pump body</p> <p>Models CGV, CGVR, CGVN, CGVG</p>			
The discharge fittings are ordered with the pump body for these pumps. See drawings DPL82571 (S100) or DPL83067 (S101)			
<p>Models S100 and S101</p>		<div></div> <p>If 3-1/2 in discharge valves are mounted on the pump and center discharge piping, a Siamese fitting may be used (may be either left or right side) (see auxiliary fitting drawing DPL82088 for details)</p> <p>Models CM, CMH, CMU, CMUH CS, CSH, CSU, CSUH</p>	
<p>These pumps have NPT discharge taps. The customer must fabricate piping.</p> <p>Models CP-2, CP-4</p>	<p>The discharge fittings are ordered with the pump body for this pump. See drawing DPL81756.</p> <p>Model CP-3</p>		
<p>These pumps have Victaulic discharges. The customer must fabricate piping.</p> <p>Models CR, CRU, CZU</p>	<p>These pumps have flanged discharges. The customer must fabricate piping.</p> <p>Models CH-4, CZ</p>		

3-1/2 in 8-Bolt Fittings

Wyes



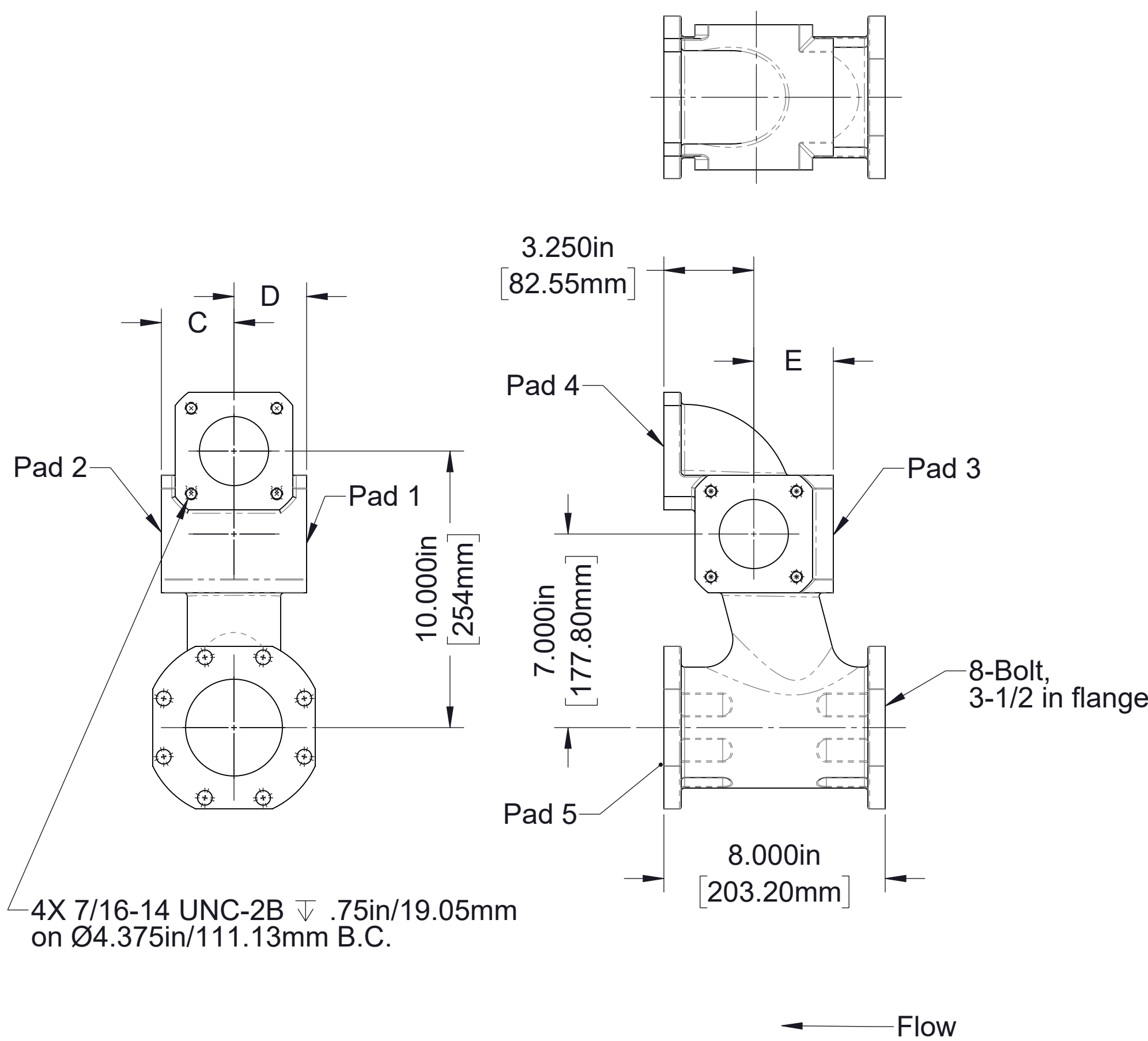
Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Dimension C	Dimension D
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings		
71441-30	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	3 in R.V.	Type 14	2.625/66.68	2.625/66.68
83074-30	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	N/A		2.625/66.68	2.625/66.68
83074-31	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	2-1/2 in Uni-Body	Type 36	2-1/2 in Uni-Body	Type 36	N/A		2.625/66.68	2.625/66.68
83074-32	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	2-1/2 in Uni-Body	Type 36	3 in Uni-Body	Type 71	N/A		2.625/66.68	2.625/66.68
83074-33	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	3 in Uni-Body	Type 71	3 in Uni-Body	Type 71	N/A		2.625/66.68	2.625/66.68



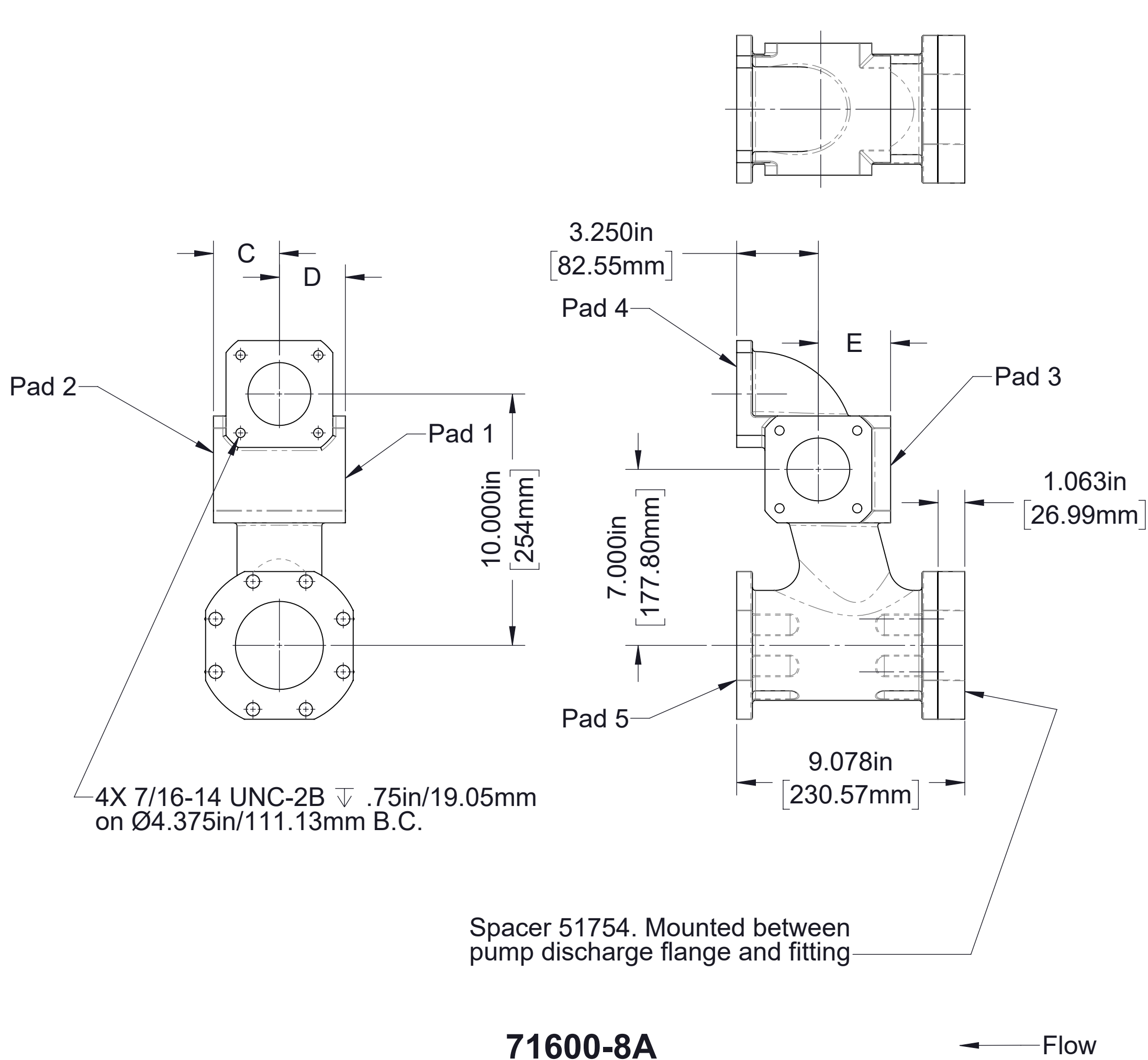
- Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.
 3. All dimensions shown as inch/millimeter.

3-1/2 in 8-Bolt Fitting

Wyes

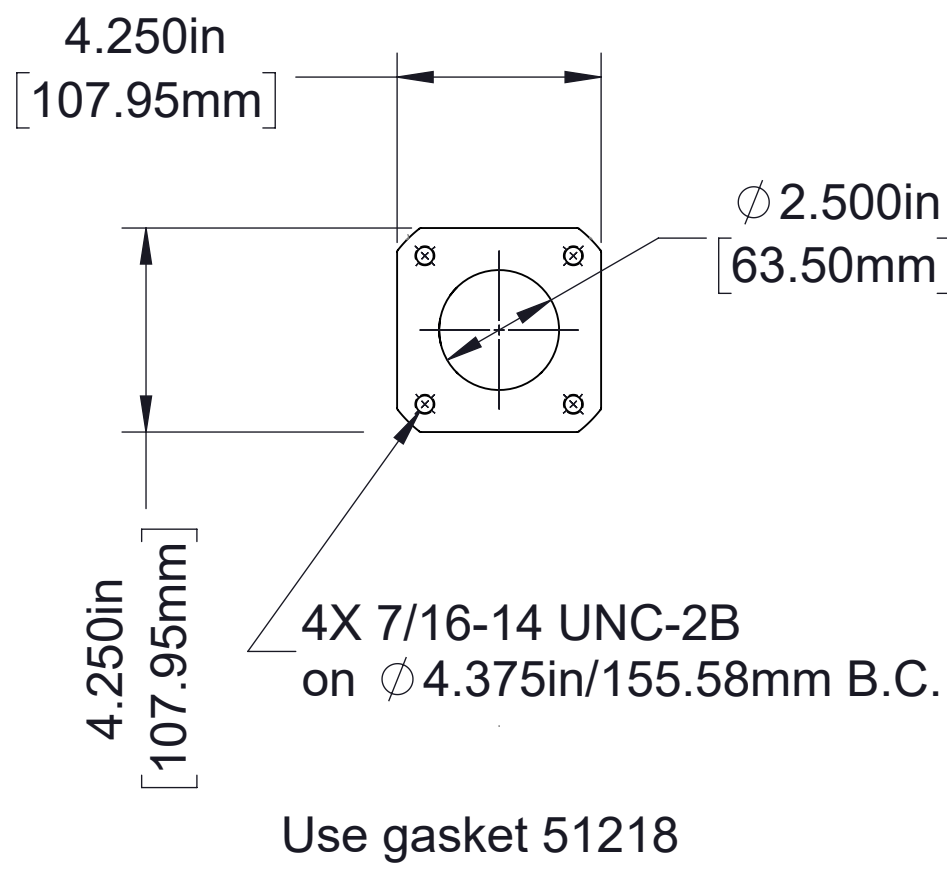


71600-8
(See table below)

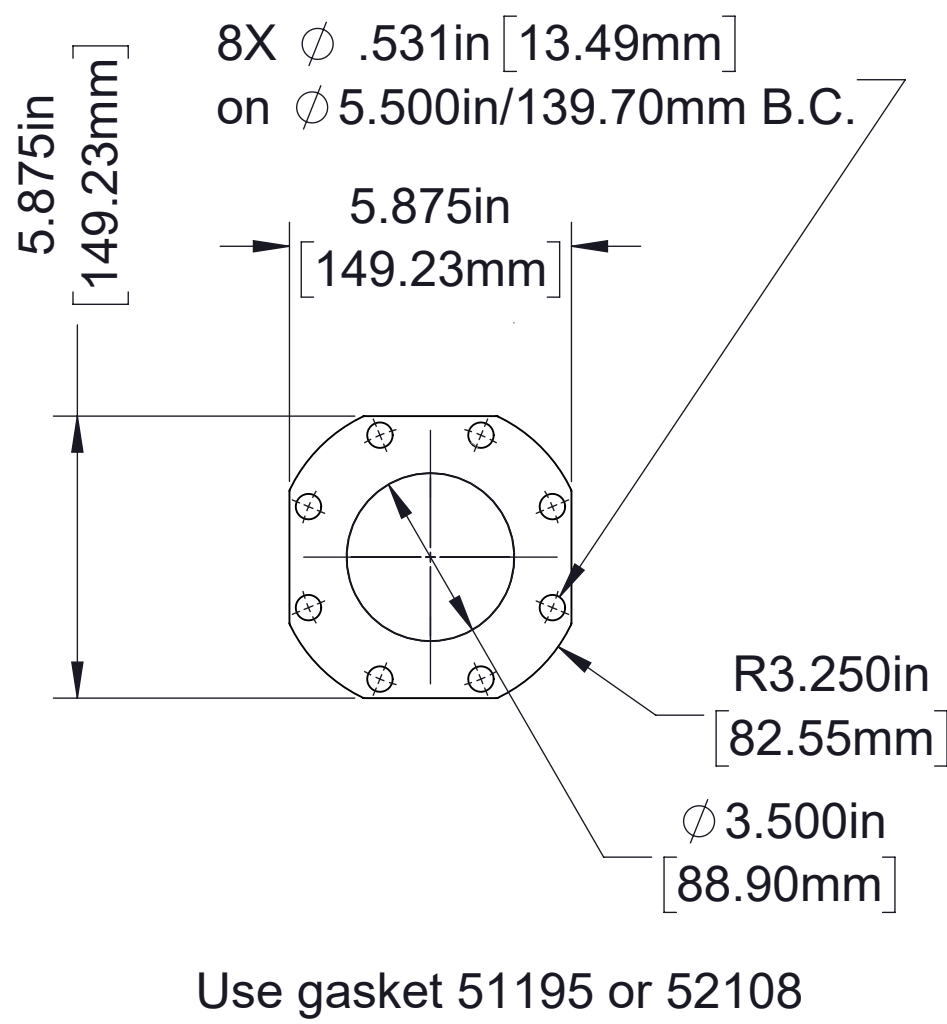


71600-8A
(See table below)

Note: This fitting is used on Eclipse pumps. Spacer is required to align foam manifold and mounting bracket.



4-Bolt, 2-1/2 in Flange



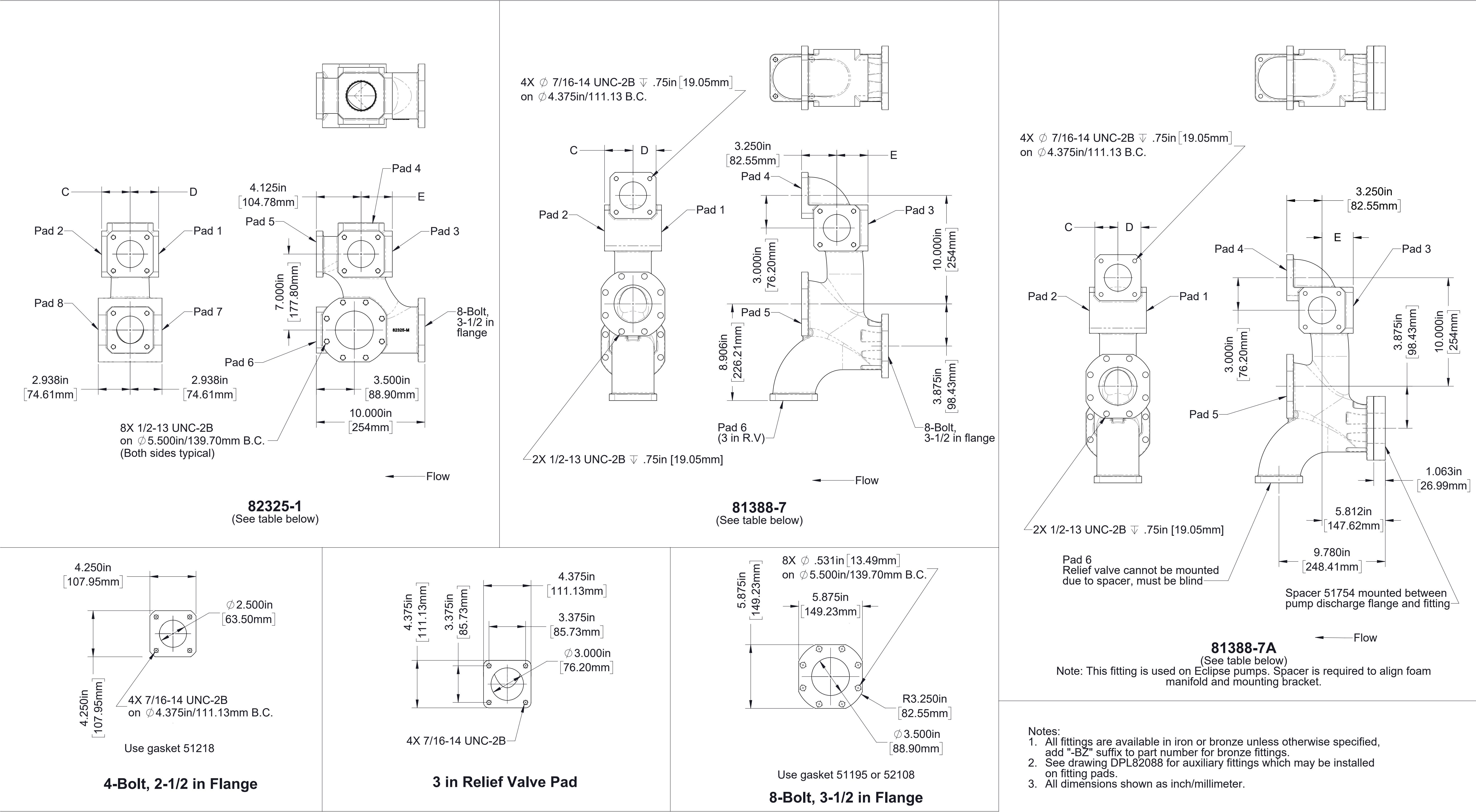
8-Bolt, 3-1/2 in Flange

Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Dimension C	Dimension D	Dimension E
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings			
71600-8	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	2.625/66.68	2.625/66.68	2.875/73.03
71600-8A	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	2.625/66.68	2.625/66.68	2.875/73.03

- Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.
 3. All dimensions shown as inch/millimeter.

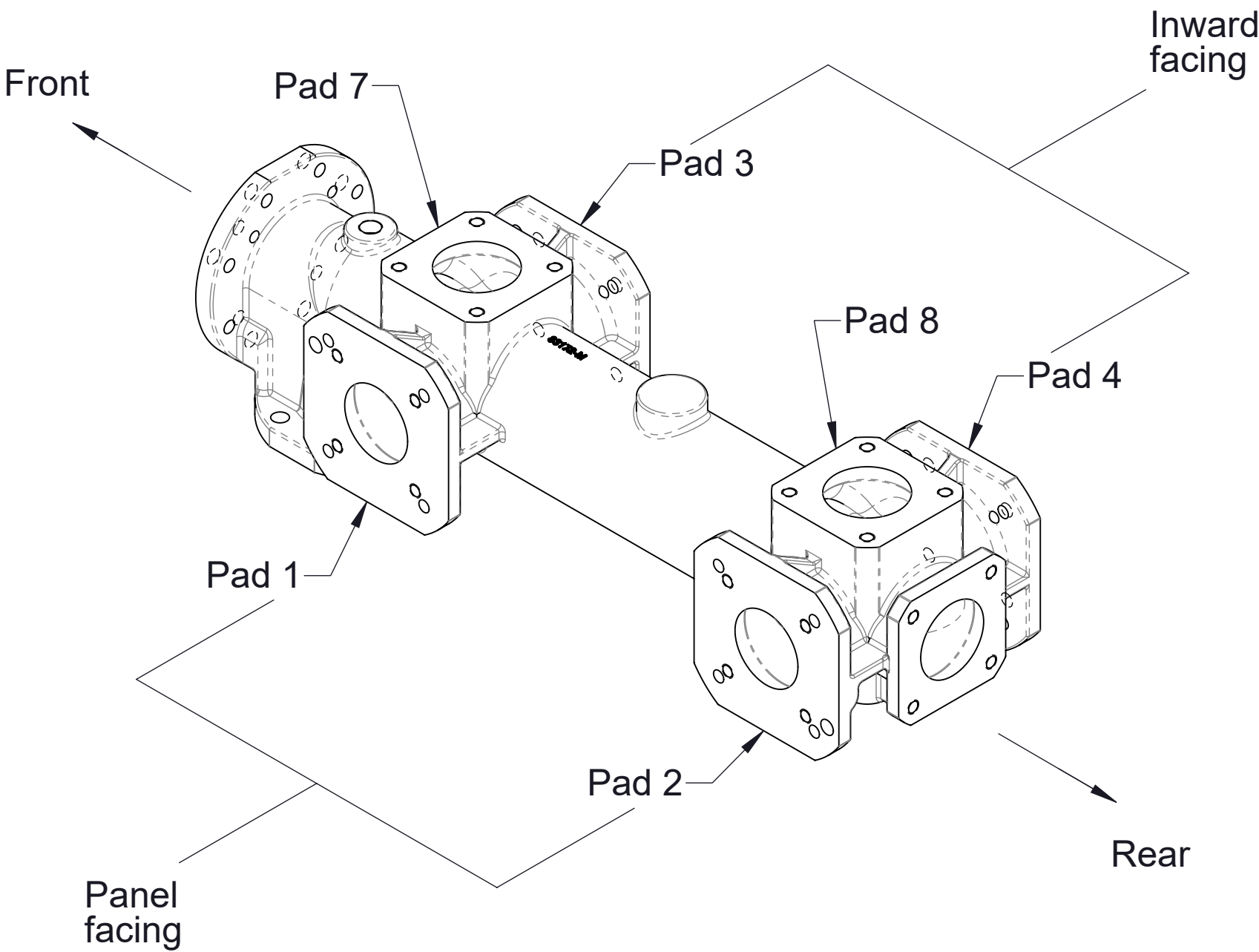
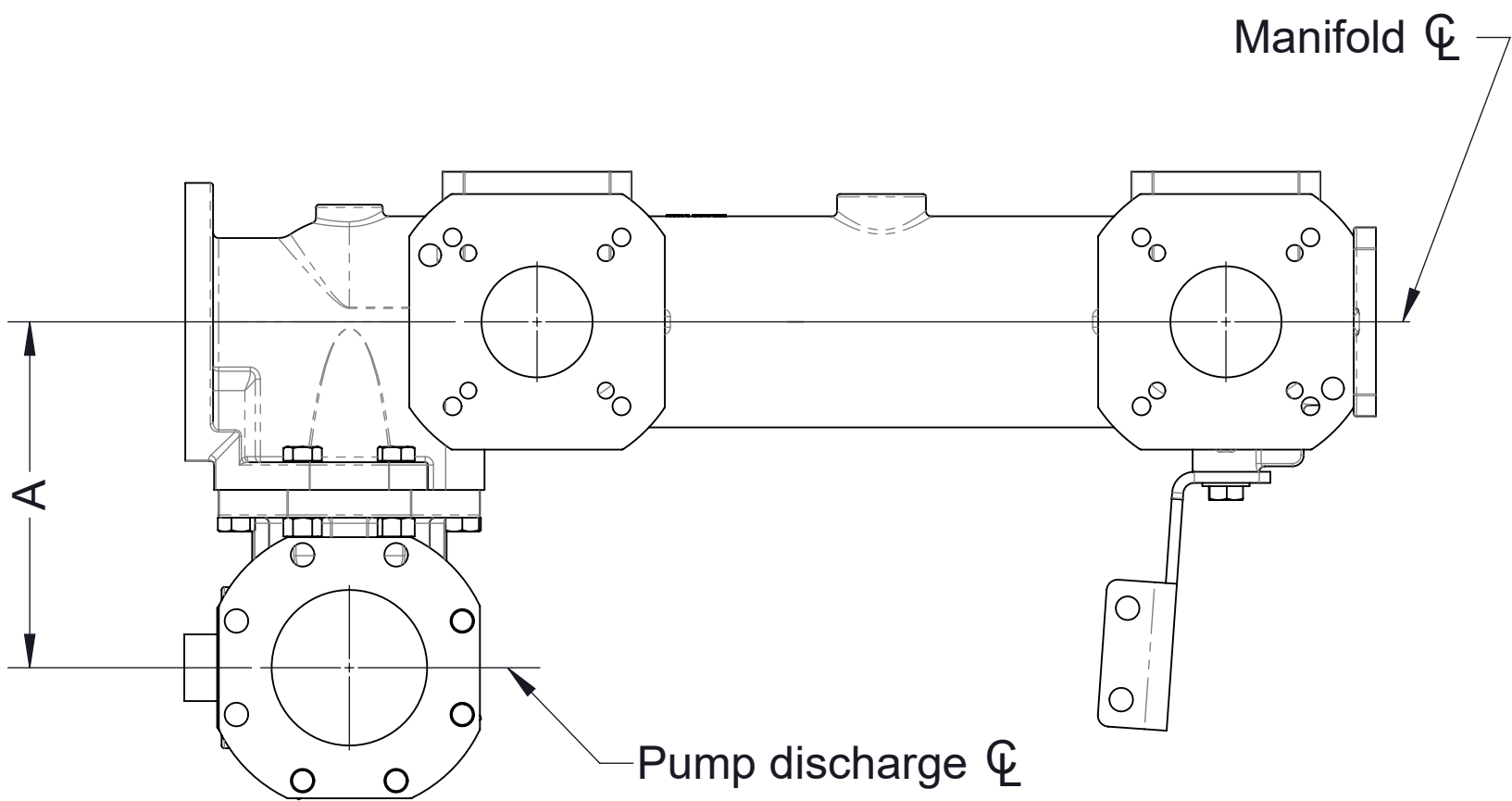
3-1/2 in 8-Bolt Fittings

Wyes

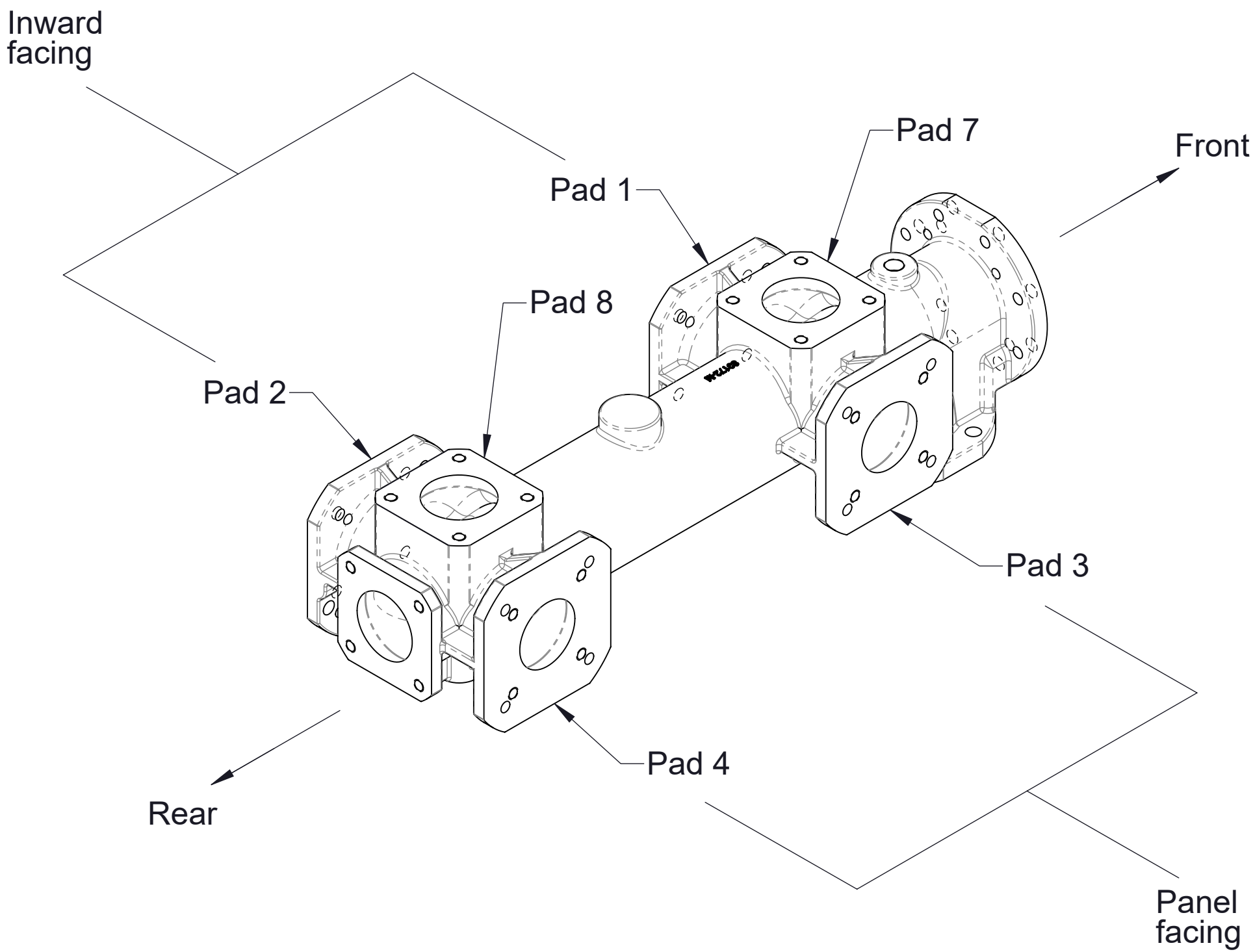


Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Pad 8		Dimension C	Dimension D	Dimension E
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings			
82325-1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	2-1/2 NPT	Type 2	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	8-Bolt	Type 8	2.625/66.68	2.625/66.68	2.875/73.03
81388-7	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	3 in R.V.	Type 14	N/A		N/A		2.625/66.68	2.625/66.68	2.875/73.03
81388-7A	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1	8-Bolt	Type 8	3 in R.V.	Type 14	N/A		N/A		2.625/66.68	2.625/66.68	2.875/73.03

3-1/2 in 8-Bolt Fittings, H Manifold



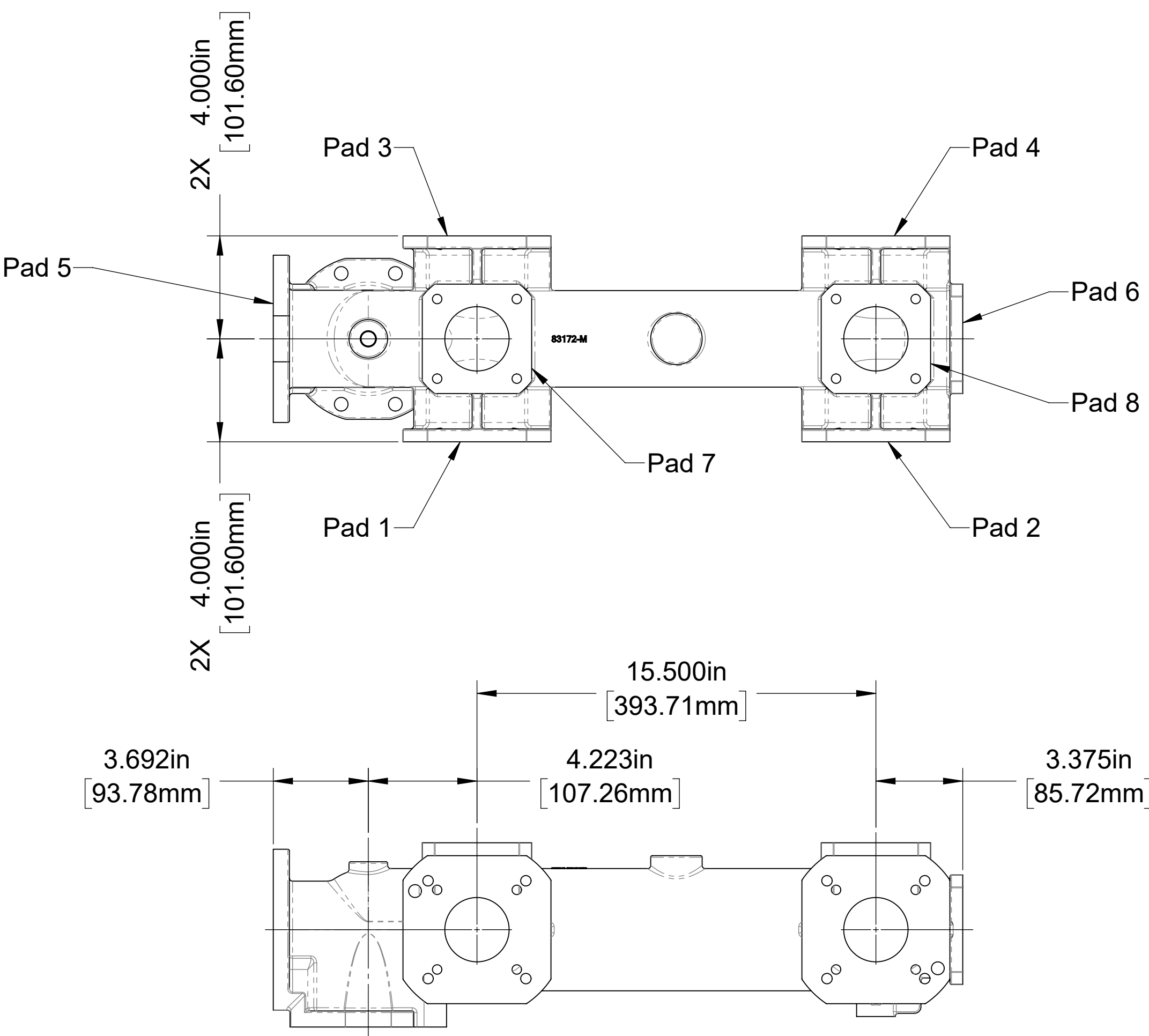
Manifold Mounted on Left Side of Pump



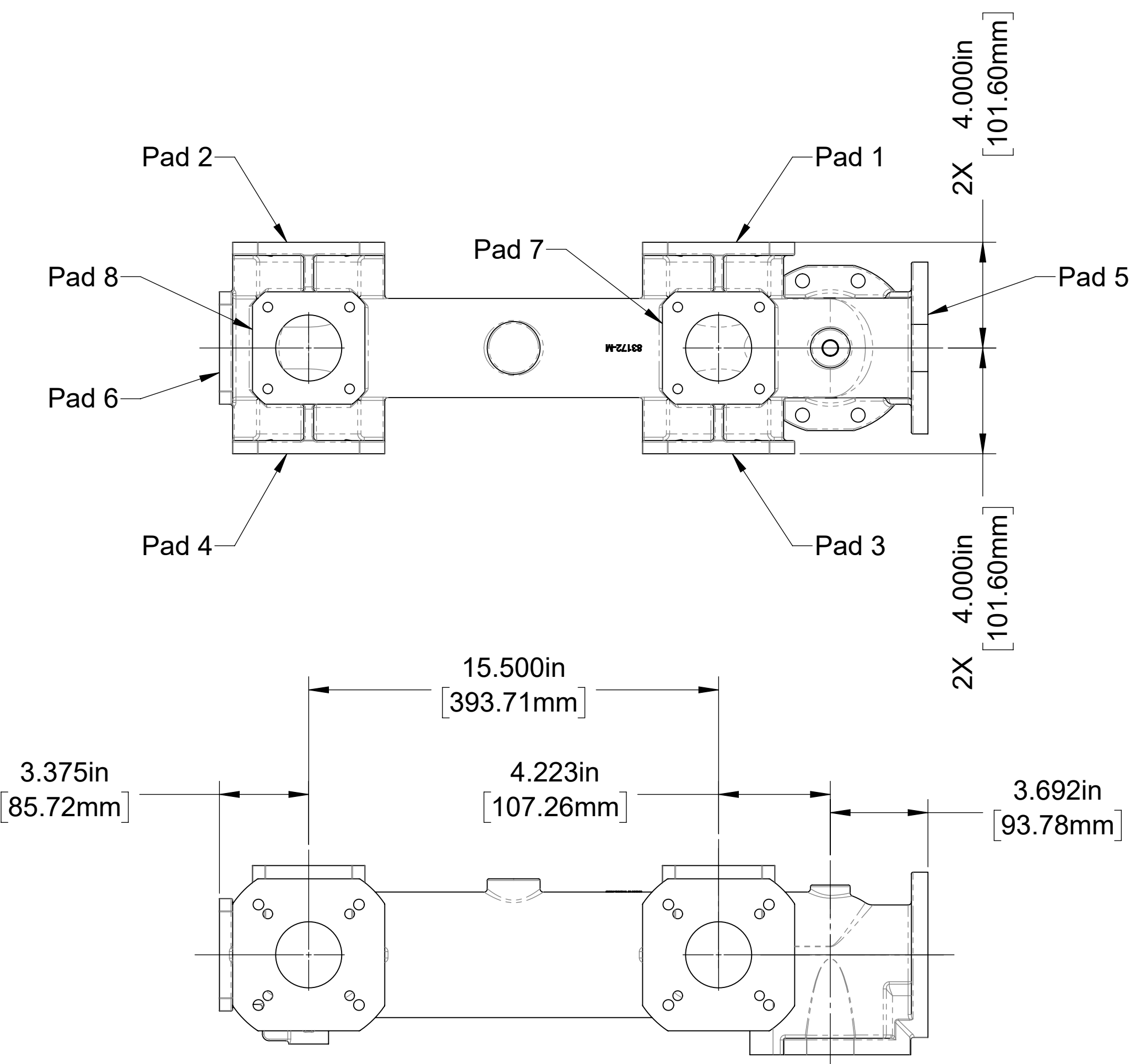
Manifold Mounted on Right Side of Pump

Part Number		Dimension A	Panel Facing and Inward Facing Pad Machining						See Page
Left Mounting	Right Mounting		Pad 1	Pad 2	Pad 3	Pad 4	Pad 7	Pad 8	
84020-1A		--	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	6
84020-1B			3 in Uni-Body Valve (3.0 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	3 in Uni-Body Valve (3.0 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	7
84020-1C			2.5 in Wat 4-Bolt (3.0 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	2.5 in Wat 4-Bolt (3.0 in Opening)	2.5 in Wat 4-Bolt and 2.5 in Uni-Body Valve (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	Wat 4-Bolt (2.5 in Opening)	8
84020-1D			2.5 in Wat 4-Bolt and 3.0 in Uni-Body Valve (3.0 in Opening)	2.5 in Wat 4-Bolt and 3.0 in Uni-Body Valve (3.0 in Opening)	2.5 in Wat 4-Bolt and 3.0 in Uni-Body Valve (3.0 in Opening)	2.5 in Wat 4-Bolt and 3.0 in Uni-Body Valve (3.0 in Opening)	Wat 4-Bolt (3.0 in Opening)	Wat 4-Bolt (3.0 in Opening)	9
84020-2A	84020-3A	7.782in/197.66mm	--	--	--	--	--	--	10
84020-2B	84020-3B	8.859in/225.03mm	--	--	--	--	--	--	11
84020-2C	84020-3C	8.859in/225.03mm	--	--	--	--	--	--	12
84020-2D	84020-3D	9.921in/252mm	--	--	--	--	--	--	13
84020-2E	84020-3E	9.921in/252mm	--	--	--	--	--	--	14

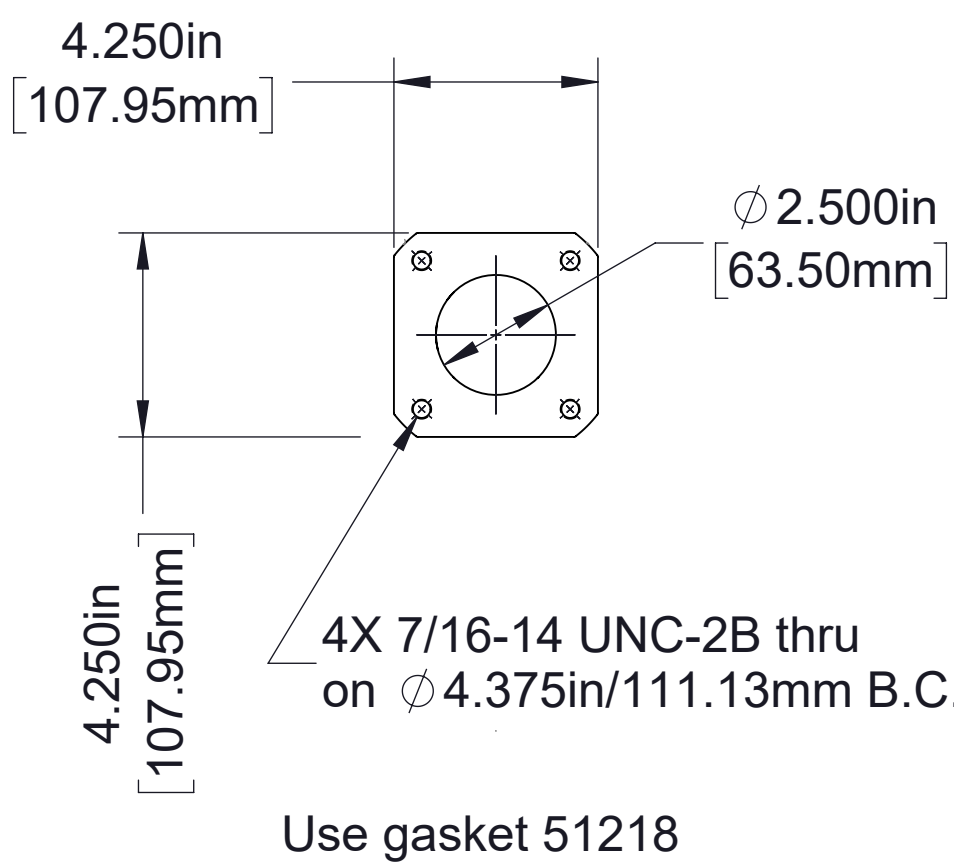
"H" Manifold - Part Number 84020-1A



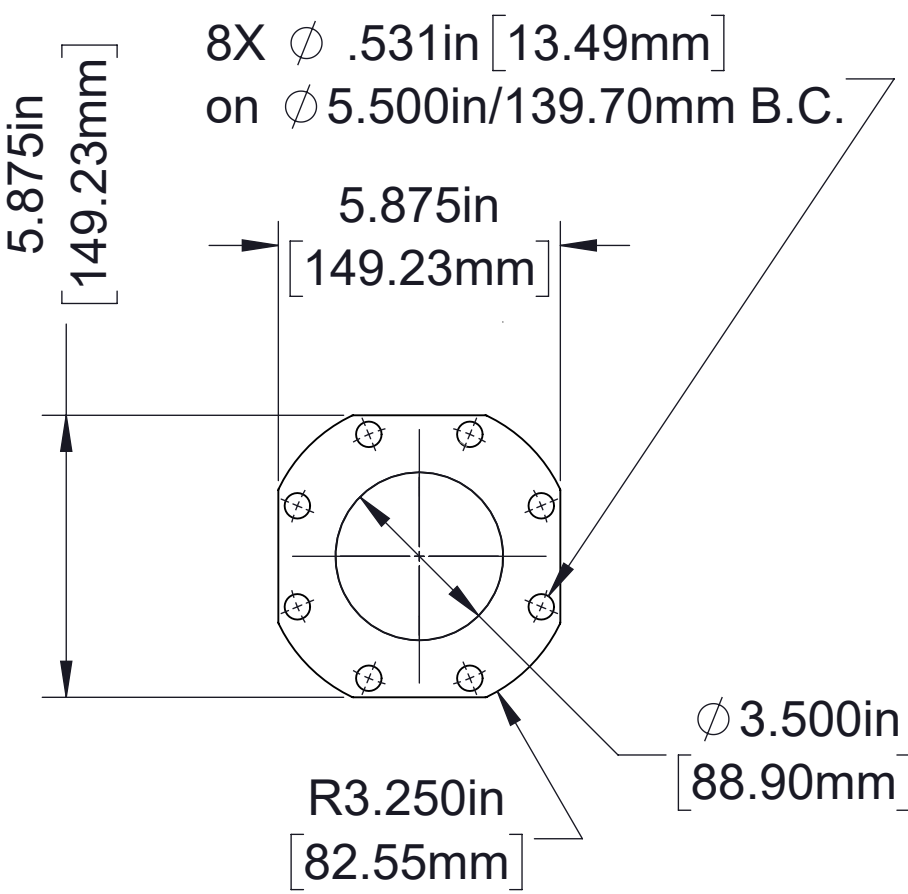
Left Side



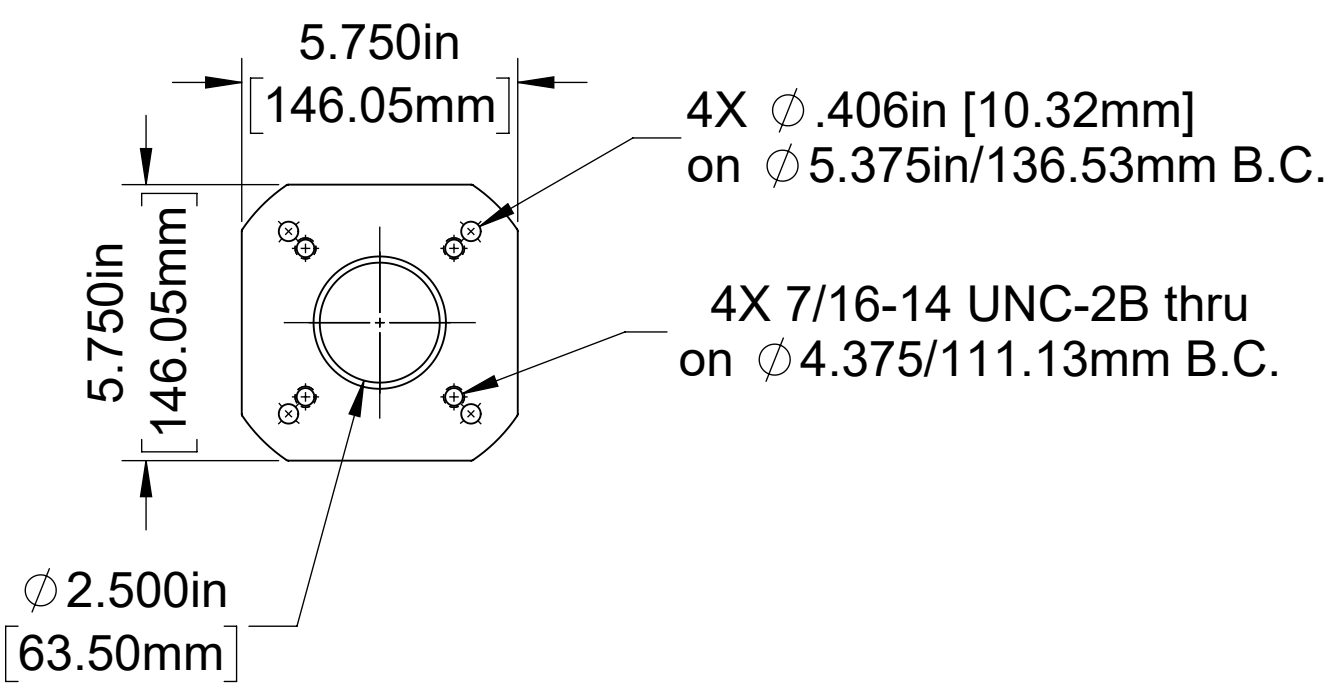
Right Side



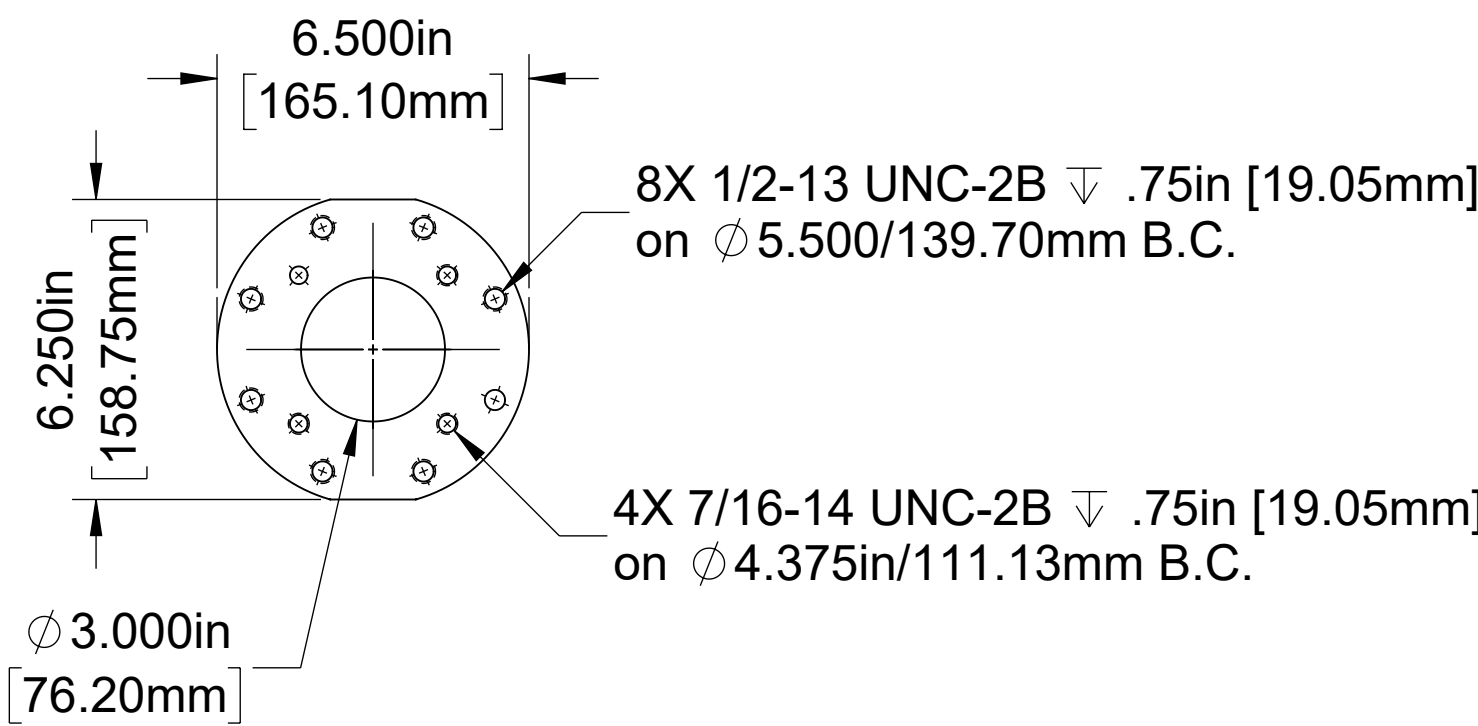
4-Bolt, 2-1/2 in Flange



8-Bolt, 3-1/2 in Flange



4-Bolt, 2-1/2 in Flange
2-1/2 in Uni-Body
(Akron/Elkhart)

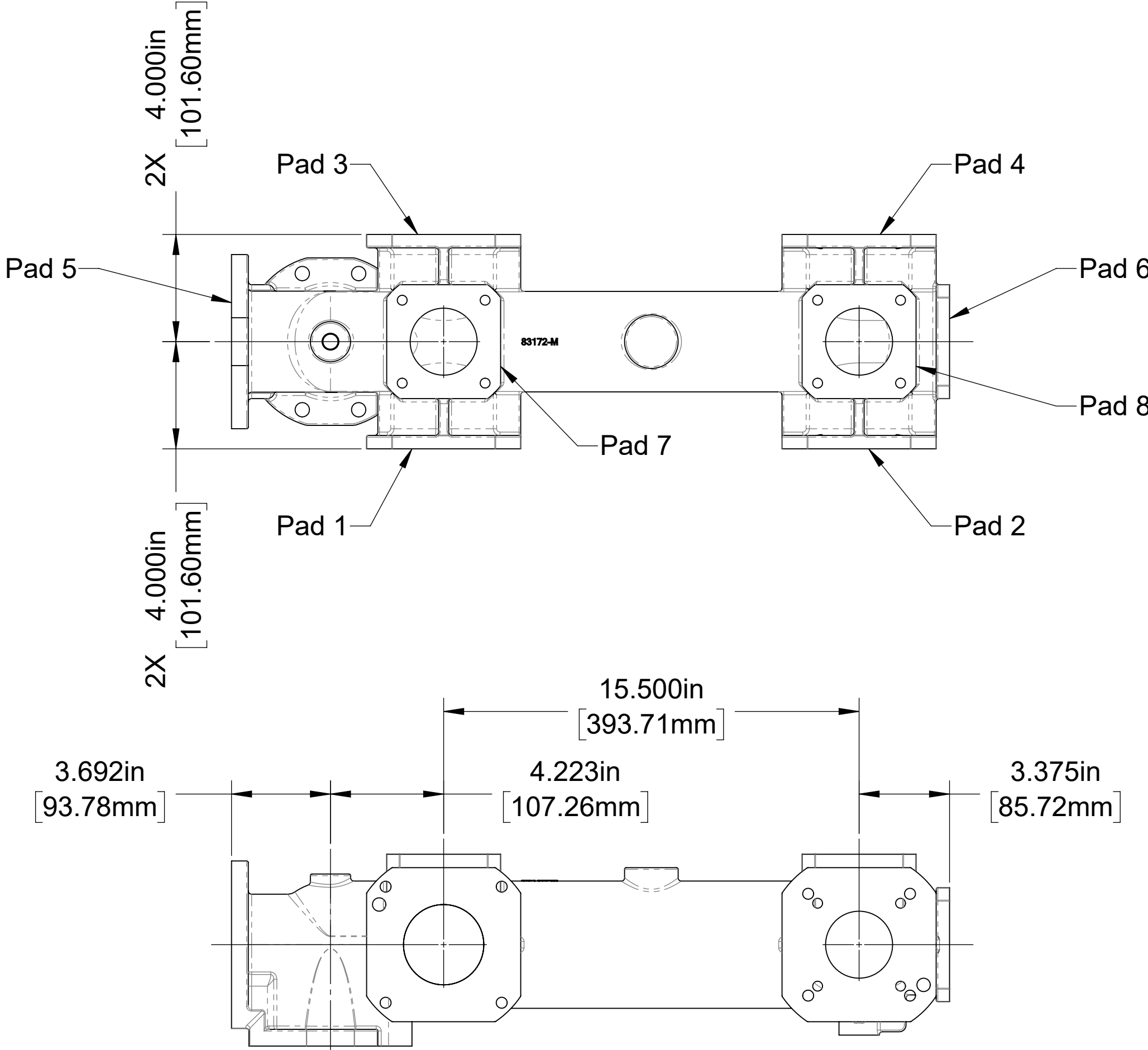


4-Bolt, 2-1/2 in Flange and
8-Bolt, 3 in Flange

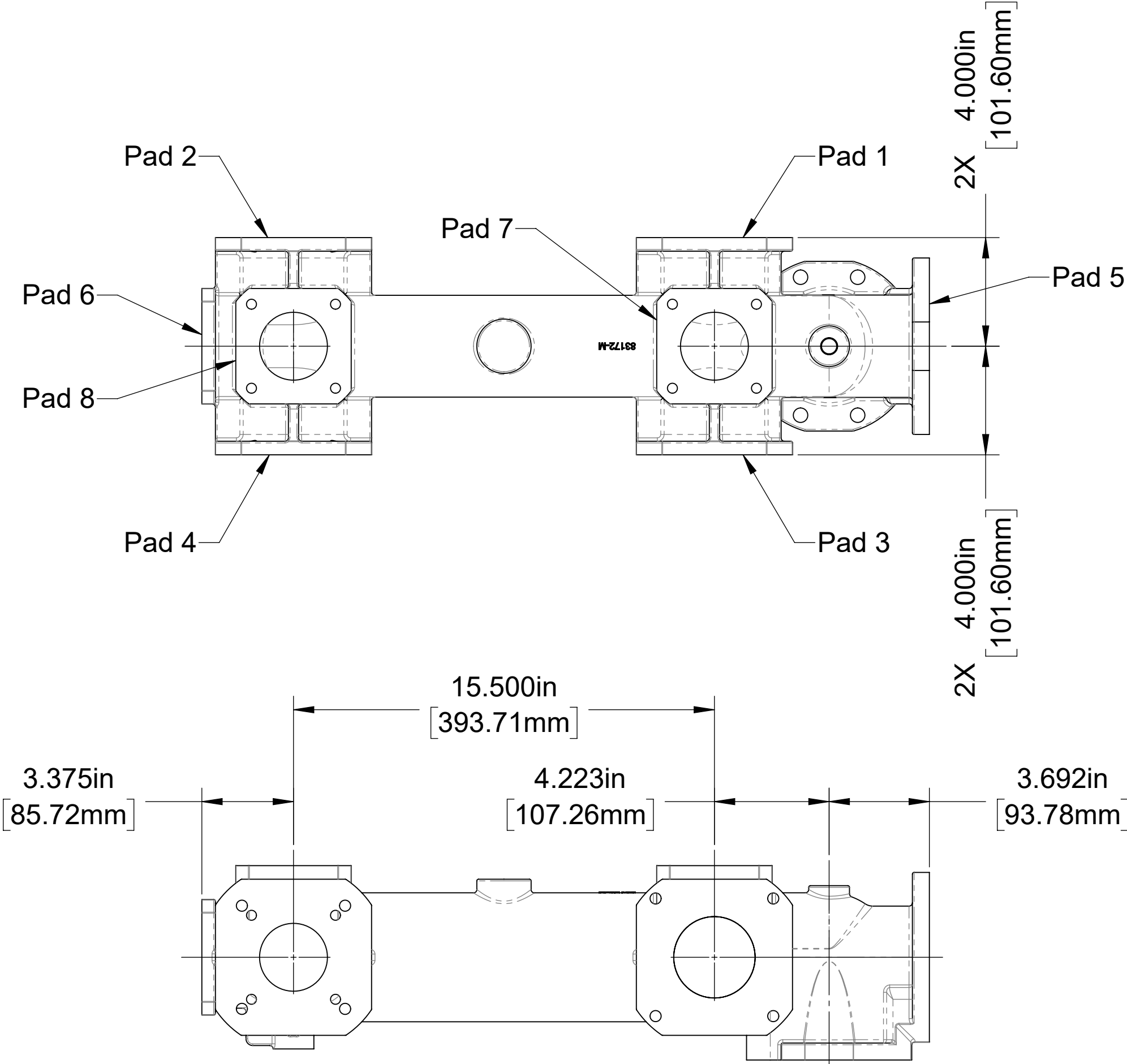
Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Pad 8	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
84020-1A	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 8-Bolt	Type 1 or Type 8	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1

Notes:
1. Fittings are only available in iron.
2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

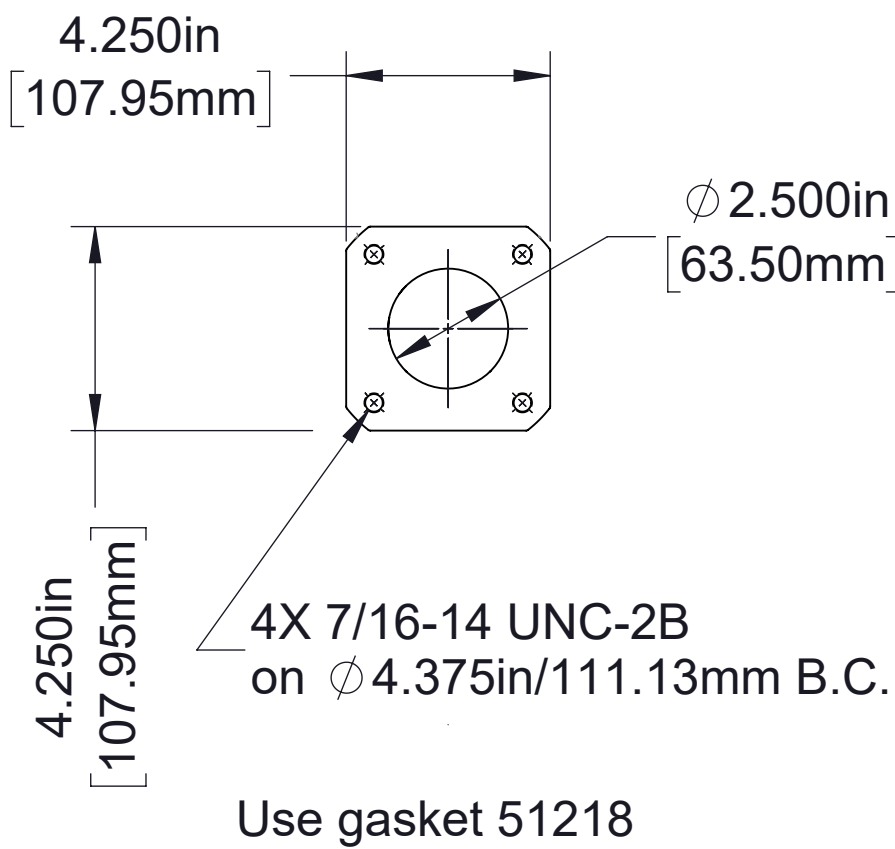
"H" Manifold - Part Number 84020-1B



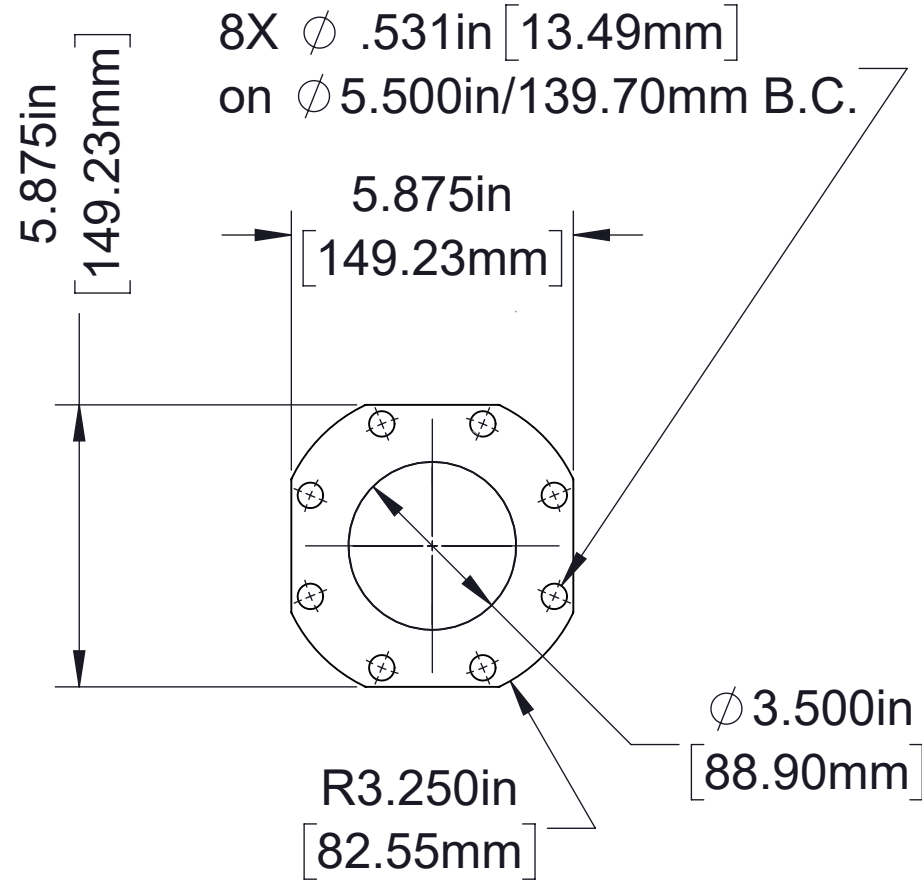
Left Side



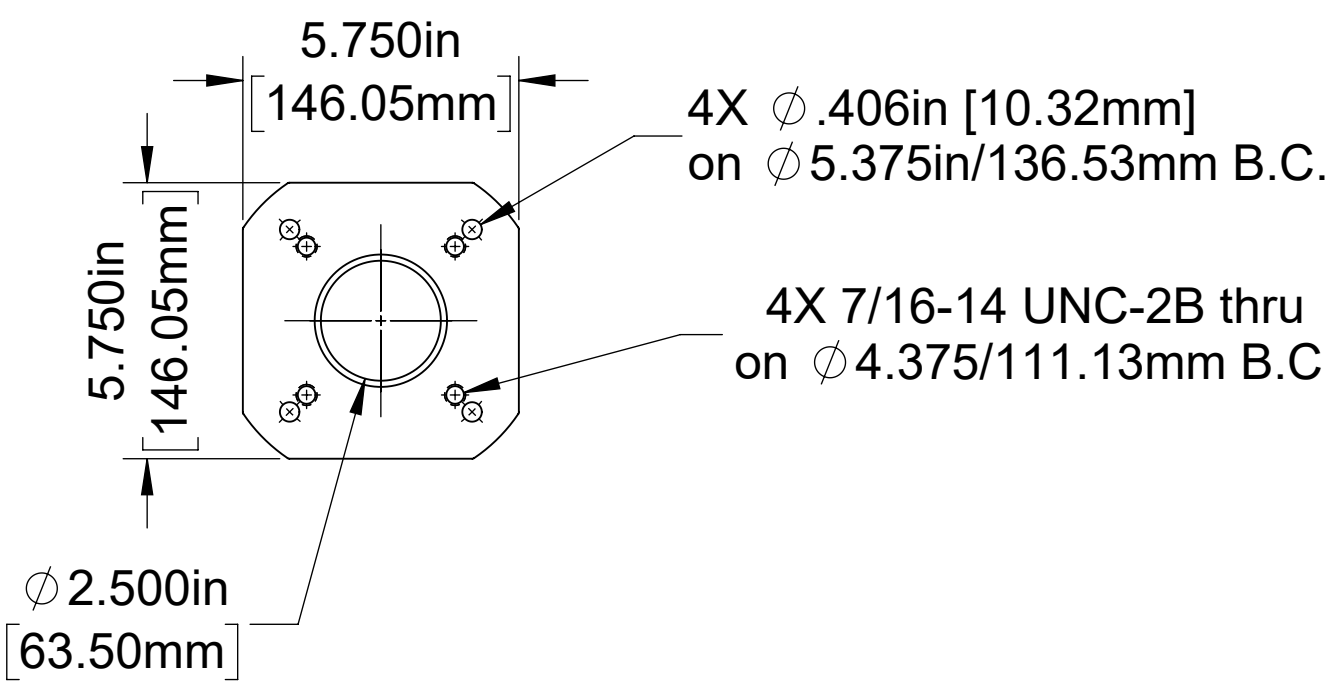
Right Side



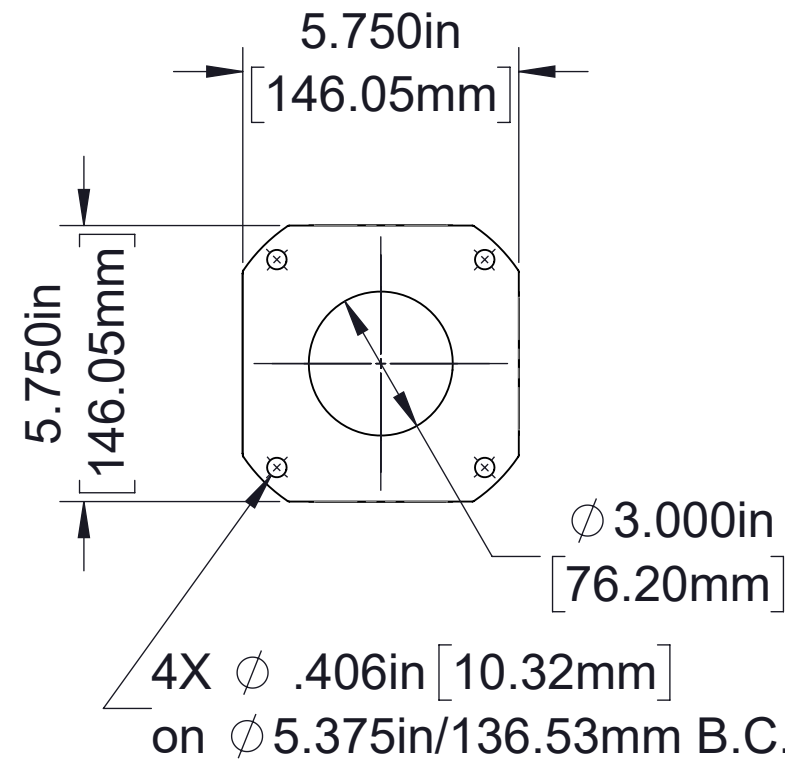
4-Bolt, 2-1/2 in Flange



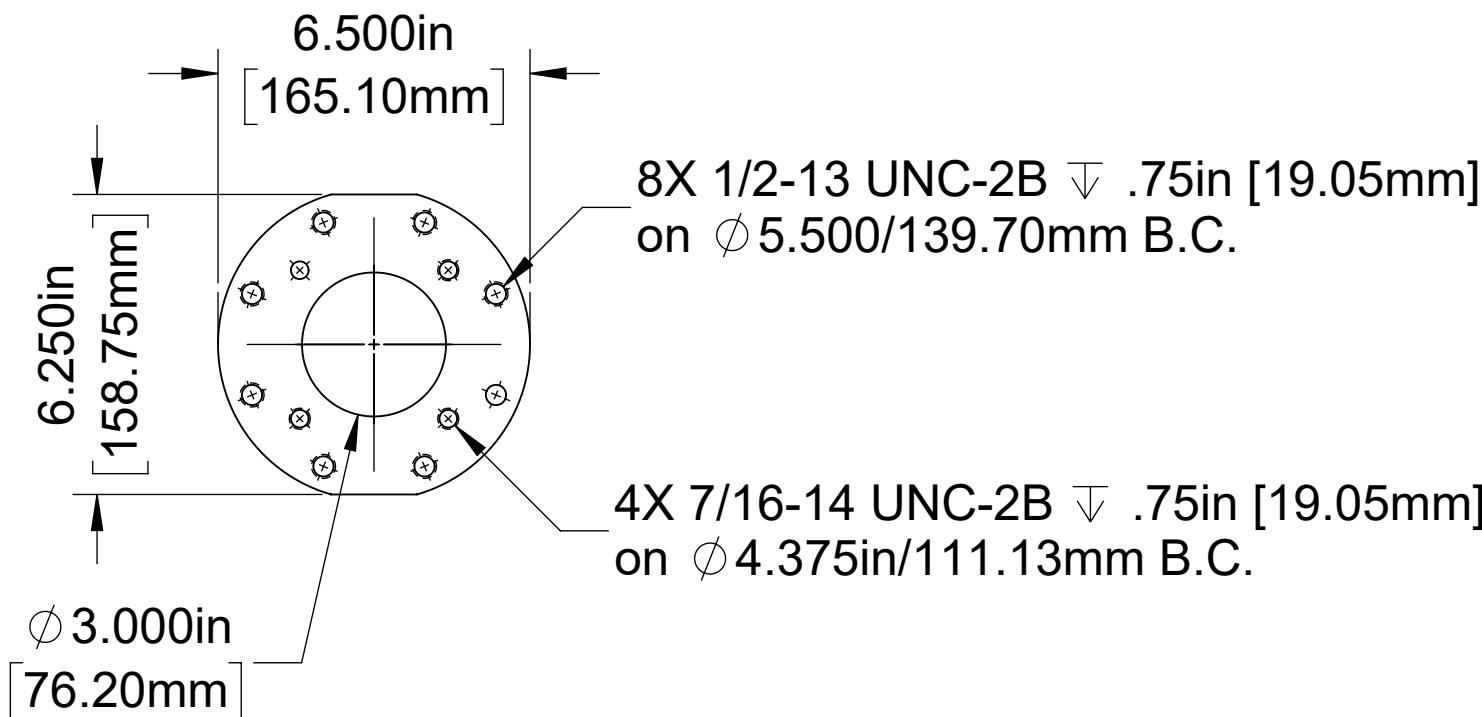
8-Bolt, 3-1/2 in Flange



4-Bolt, 2-1/2 in Flange
2-1/2 in Uni-Body
(Akron/Elkhart)



3 in Uni-Body
(Akron/Elkhart)

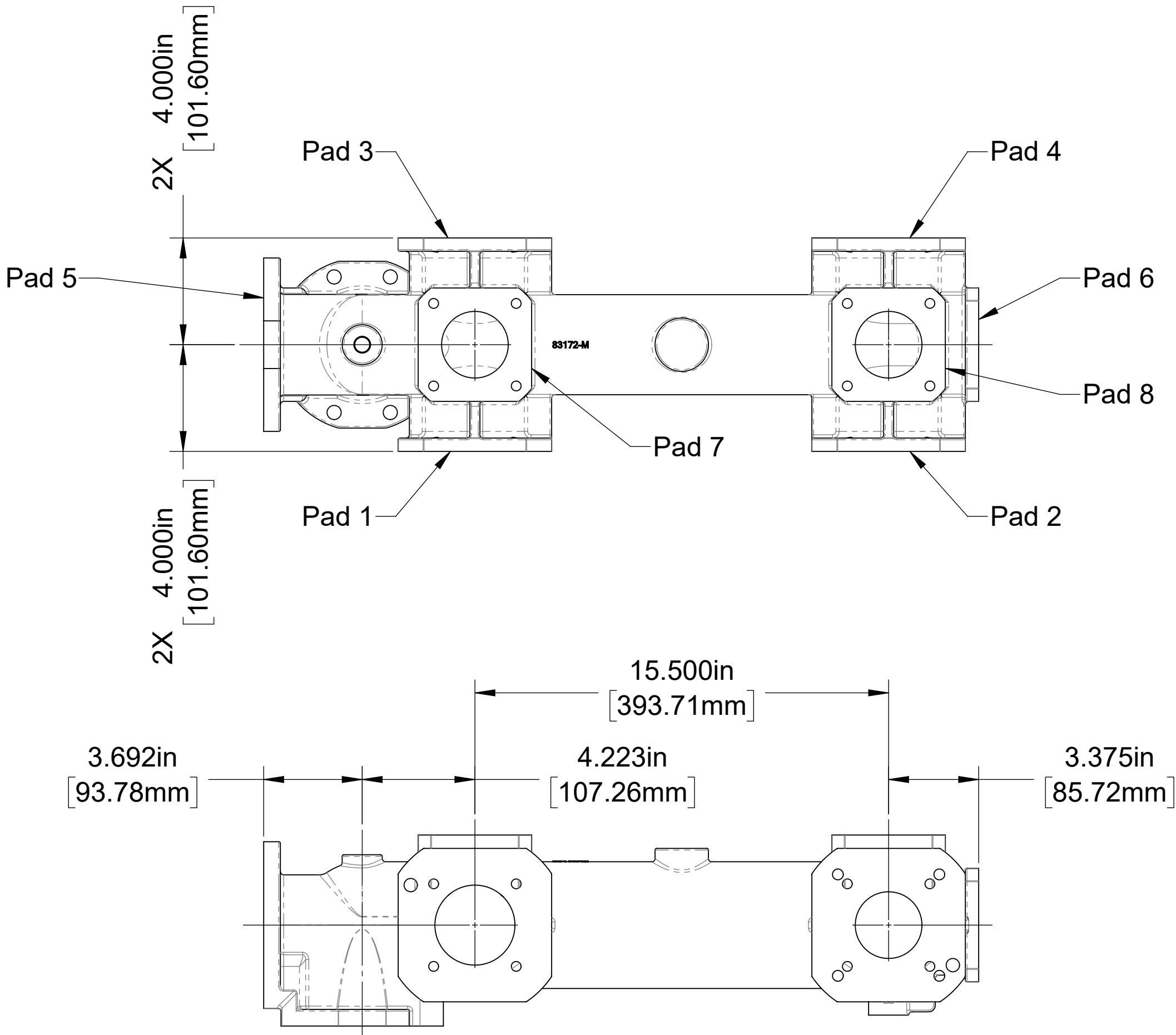


4-Bolt, 2-1/2 in Flange and
8-Bolt, 3 in Flange

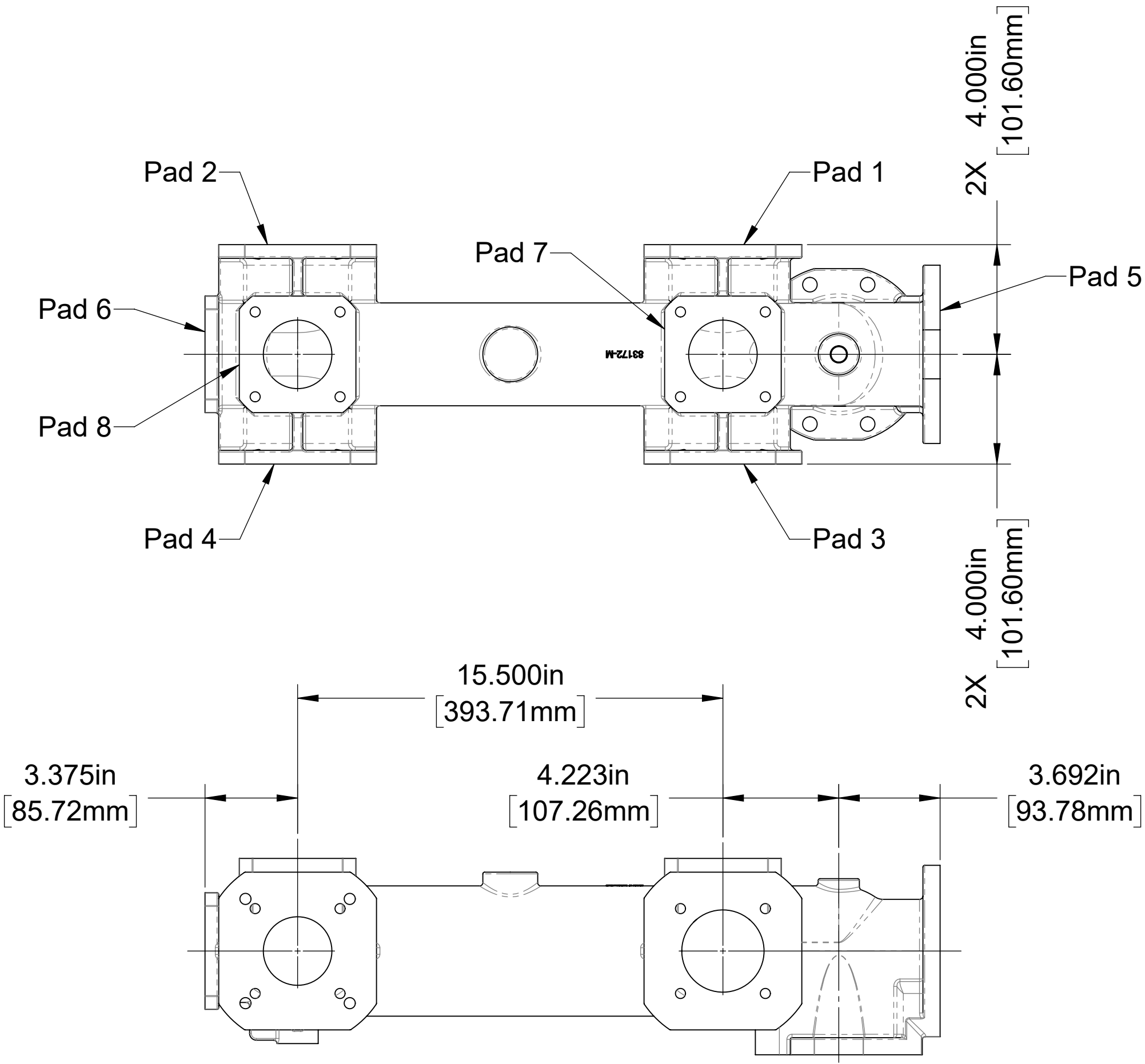
Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Pad 8	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
84020-1B	3 in Uni-Body	Type 71	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	3 in Uni-Body	Type 71	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 8-Bolt	Type 1 or Type 8	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1

Notes:
1. Fittings are only available in iron.
2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

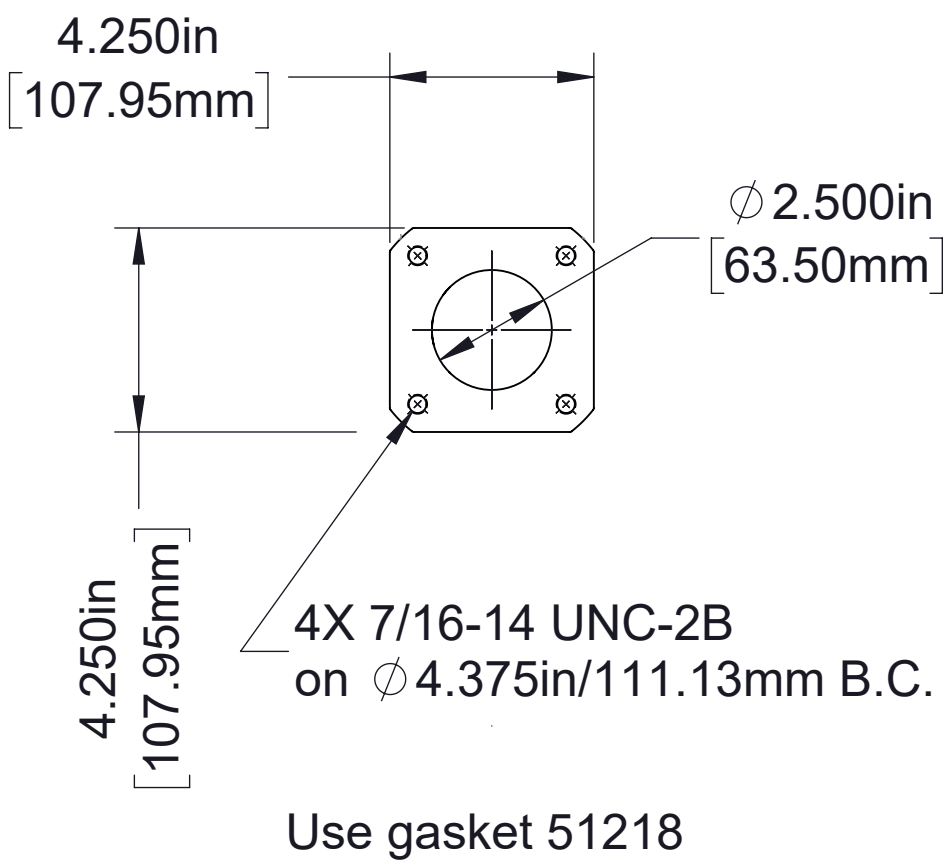
"H" Manifold - Part Number 84020-1C



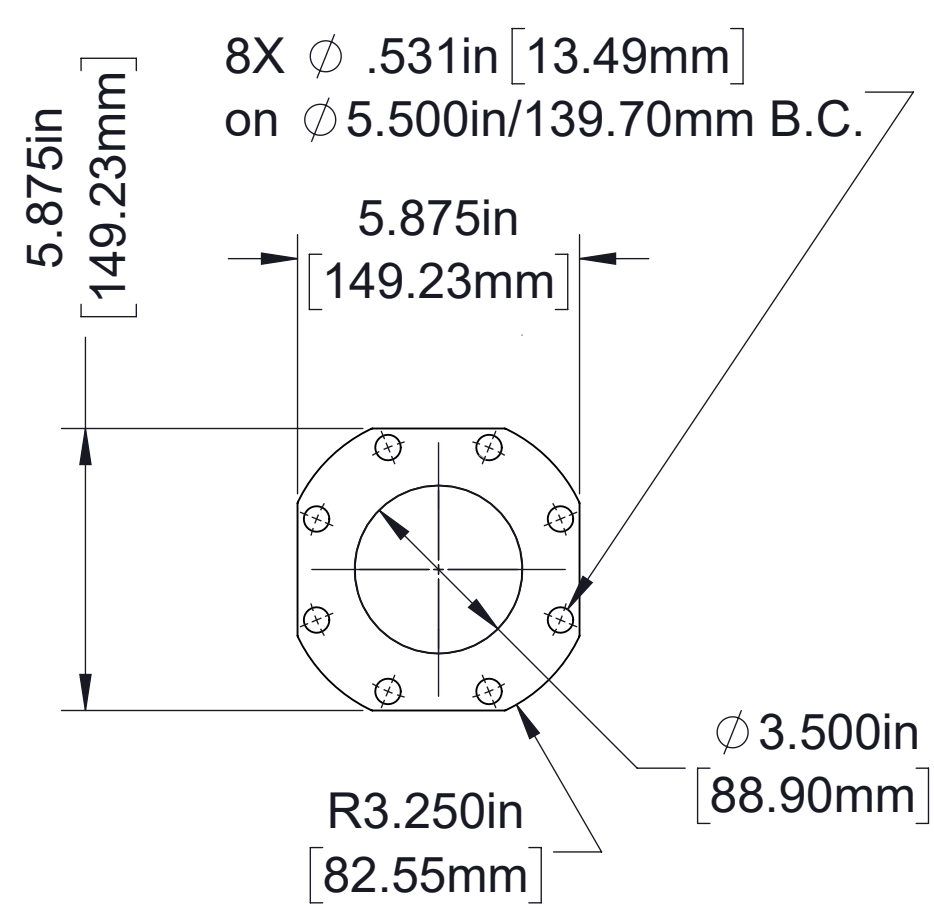
Left Side



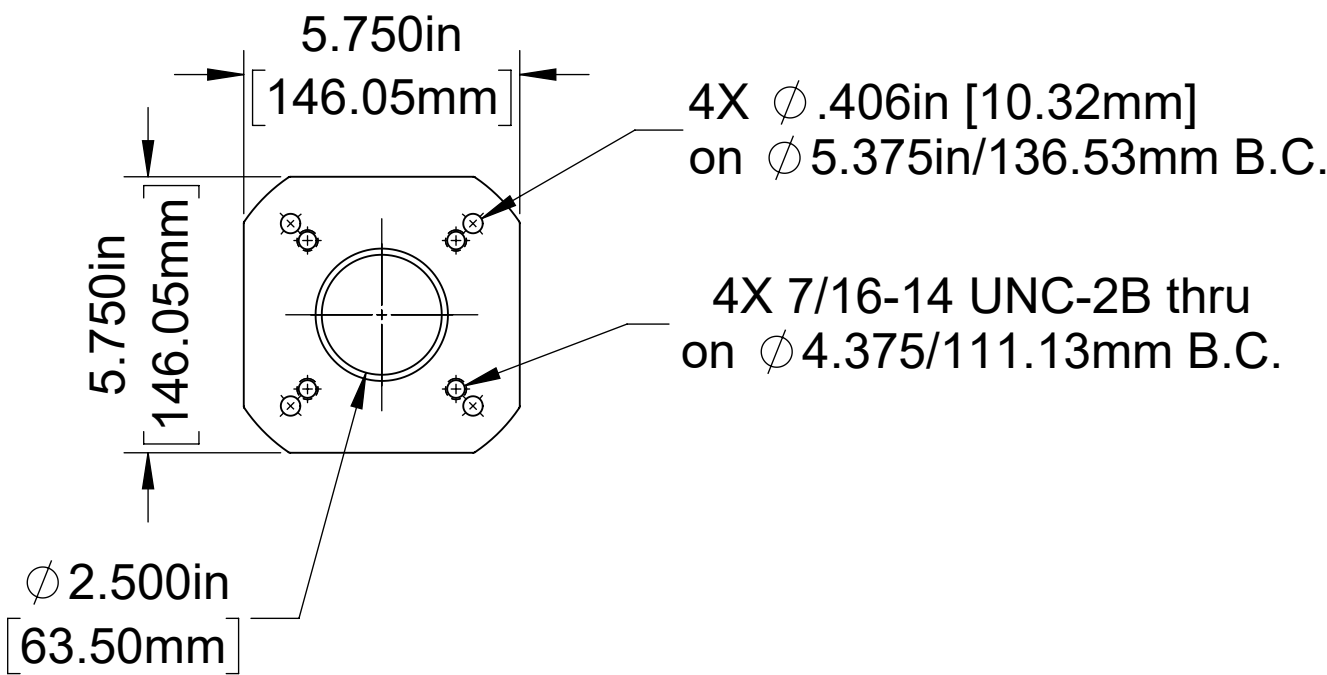
Right Side



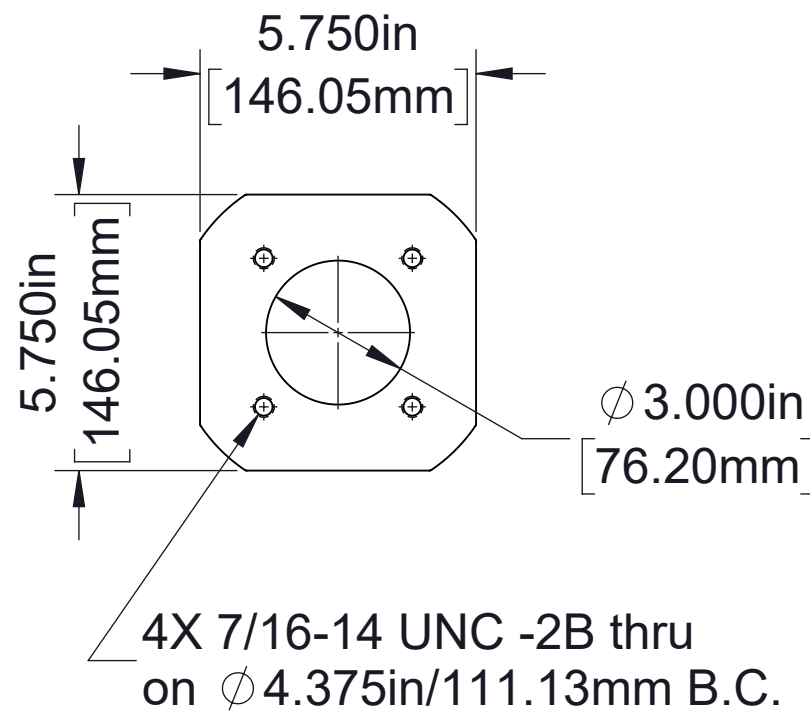
4-Bolt, 2-1/2 in Flange



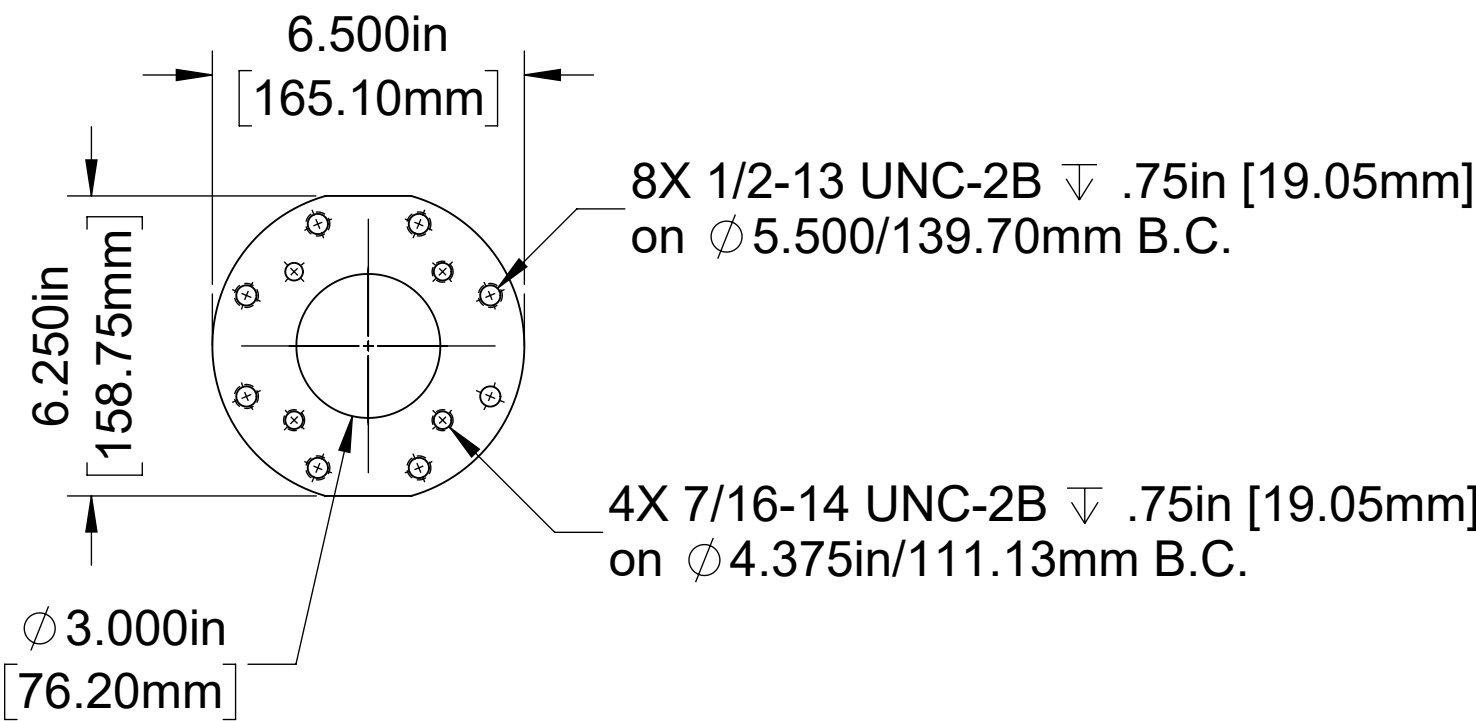
8-Bolt, 3-1/2 in Flange



4-Bolt, 2-1/2 in Flange
2-1/2 in Uni-Body
(Akron/Elkhart)



4-Bolt
(3 in Opening)

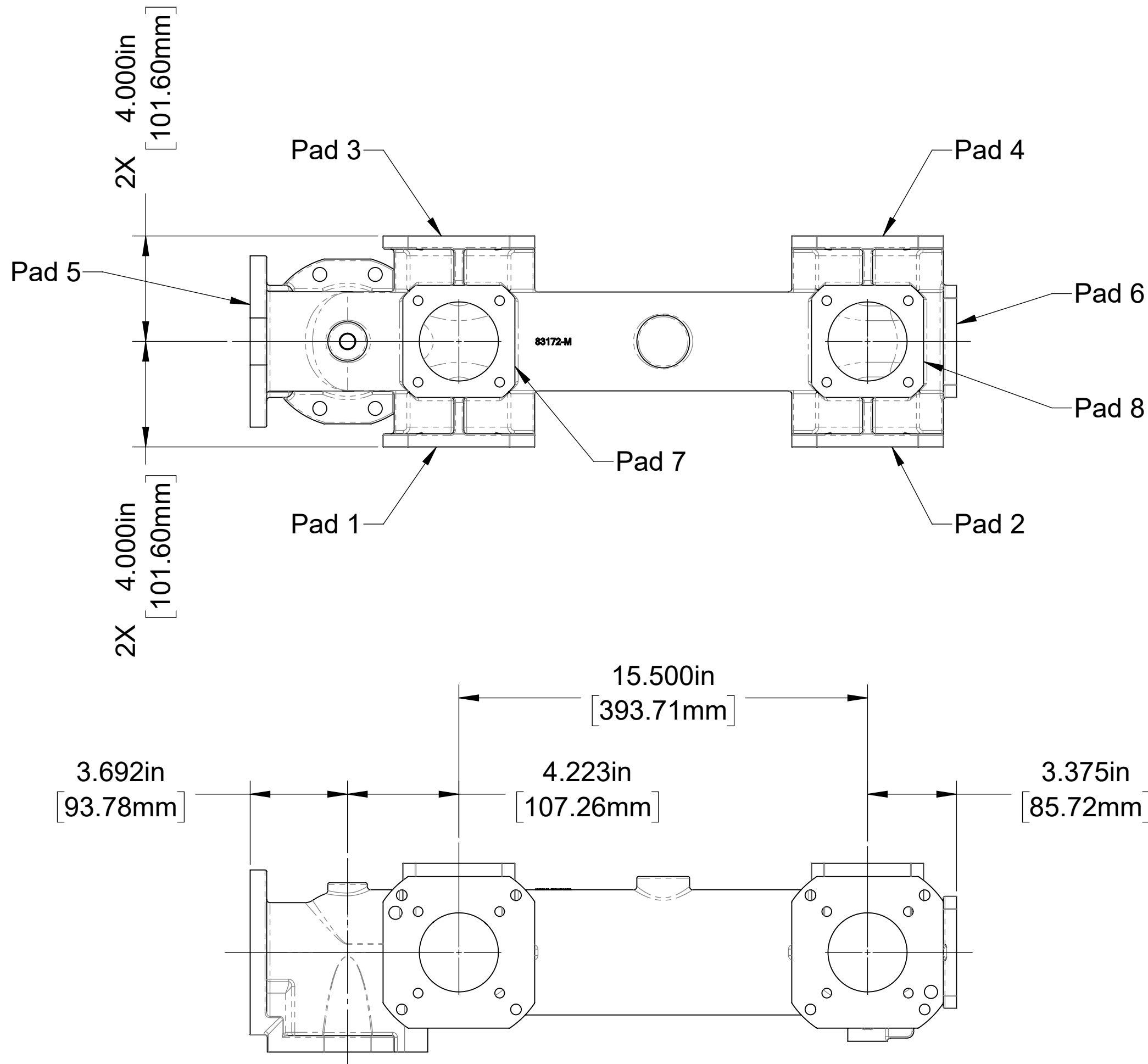


4-Bolt, 2-1/2 in Flange and
8-Bolt, 3 in Flange

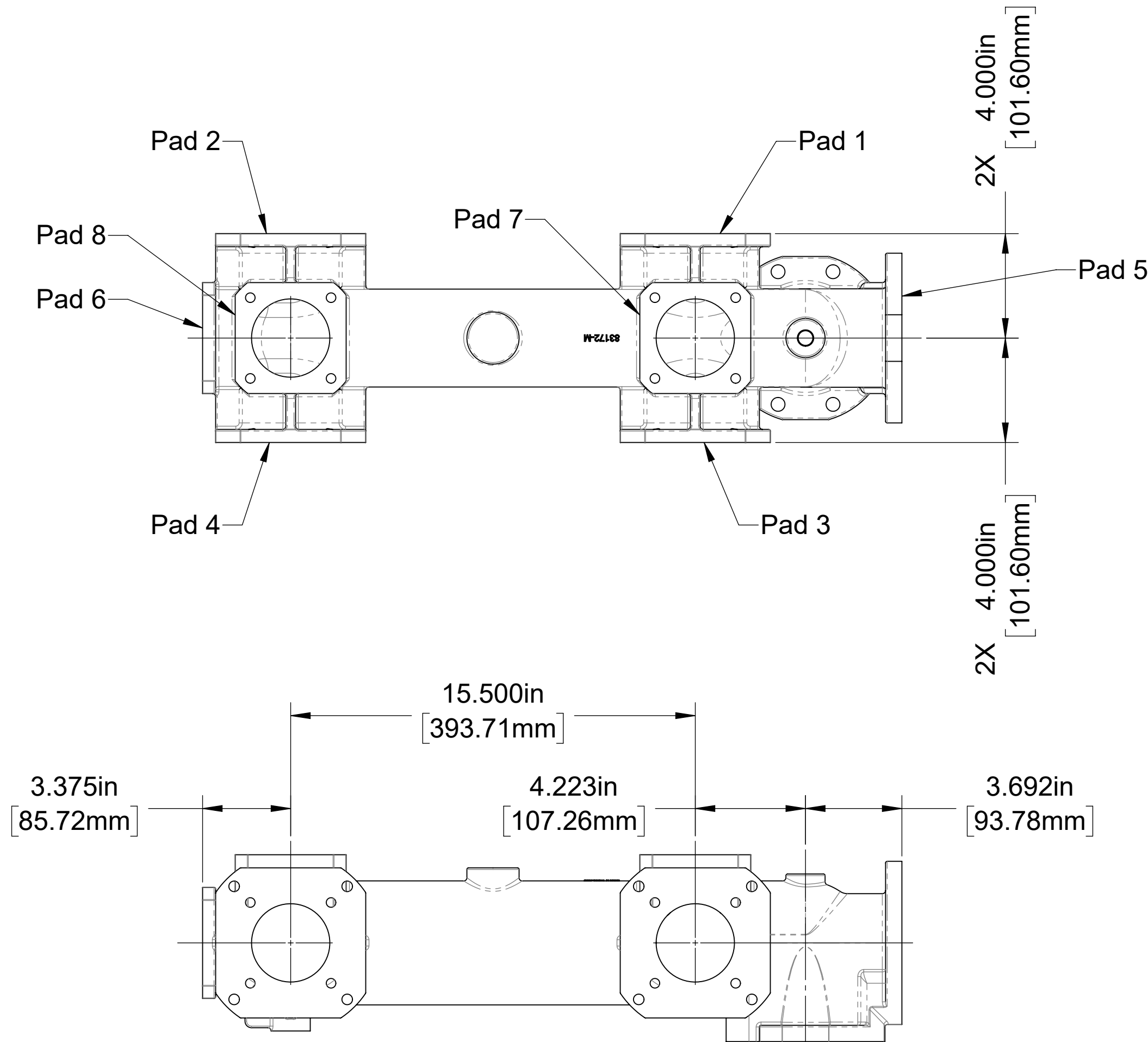
Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Pad 8	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
84020-1C	4-Bolt (3 in Opening)	Type 72	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt (3 in Opening)	Type 72	4-Bolt and 2-1/2 in Uni-Body	Type 1 or Type 36	4-Bolt and 8-Bolt	Type 1 or Type 8	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1

Notes:
1. Fittings are only available in iron.
2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.

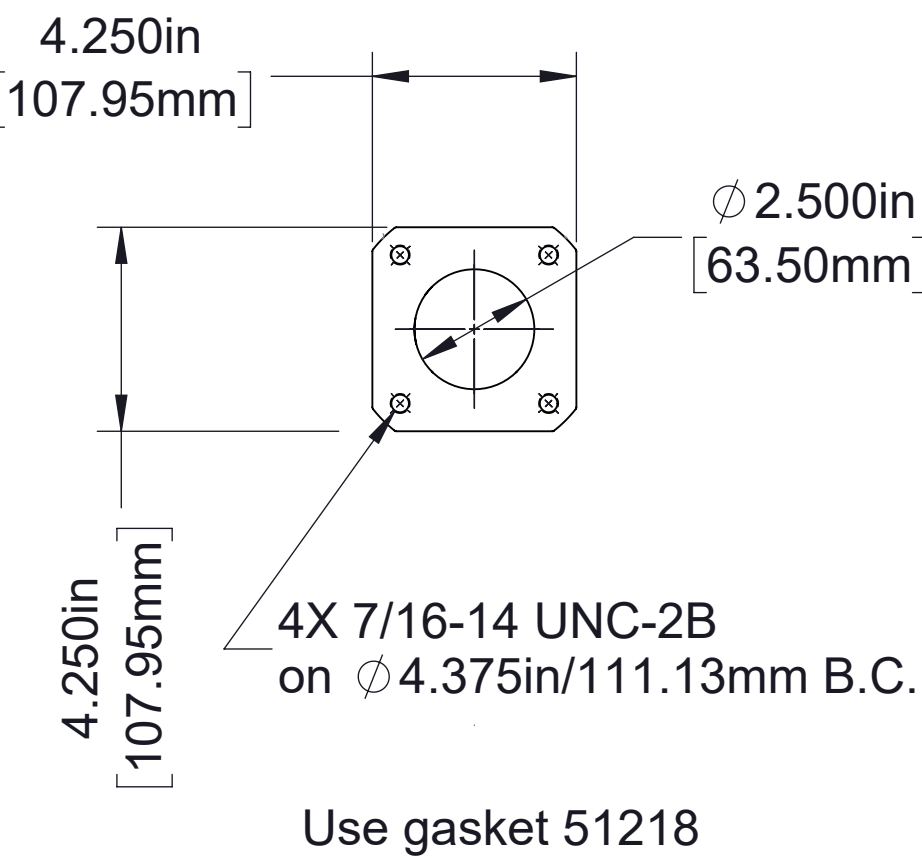
"H" Manifold - Part Number 84020-1D



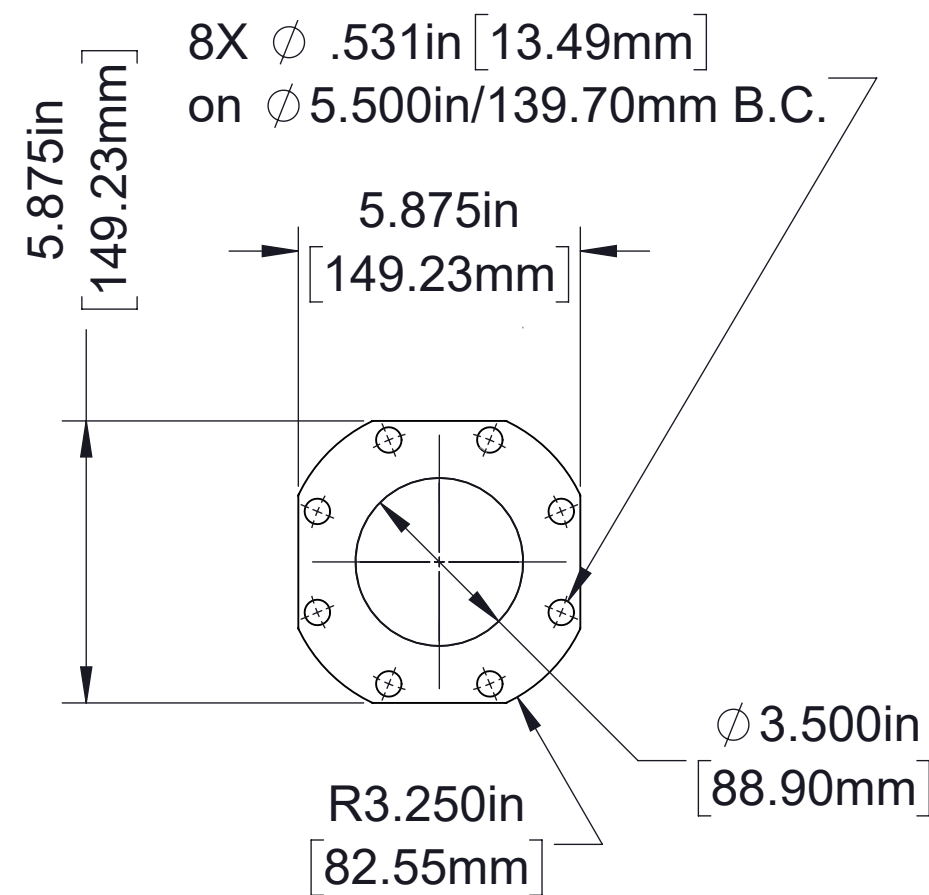
Left Side



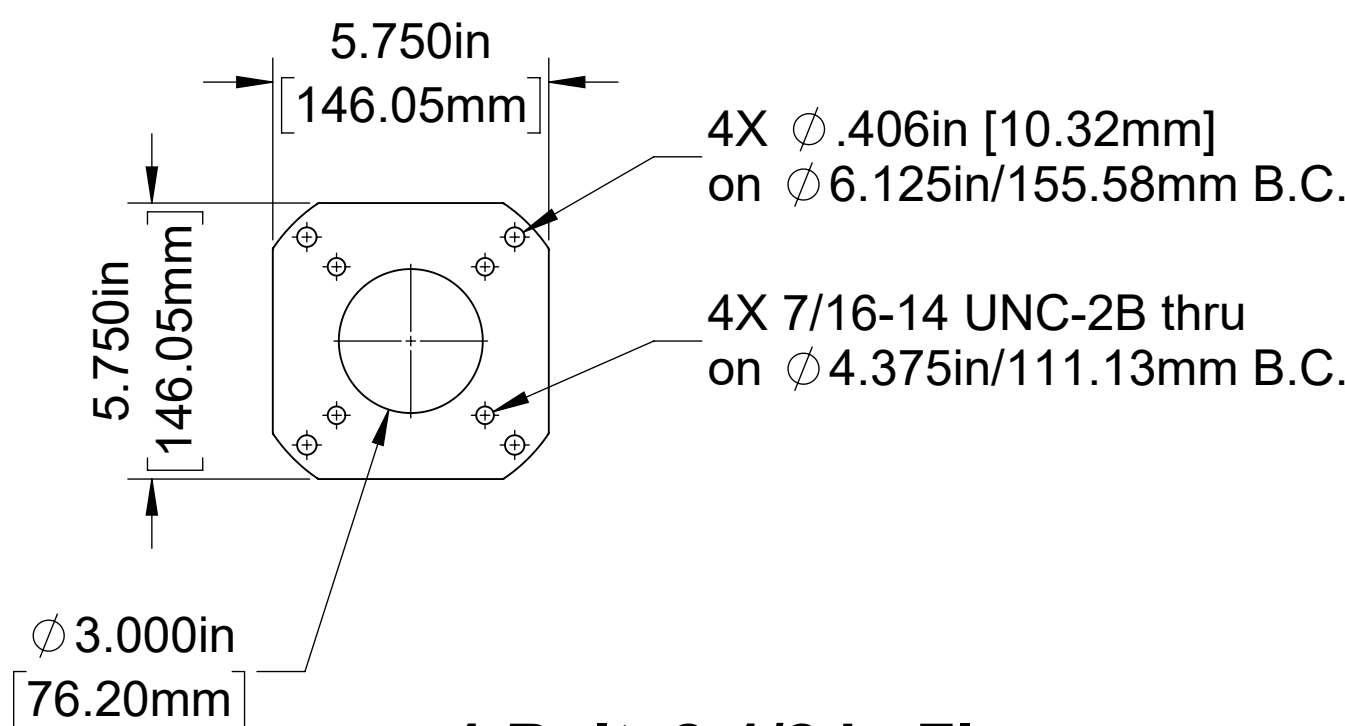
Right Side



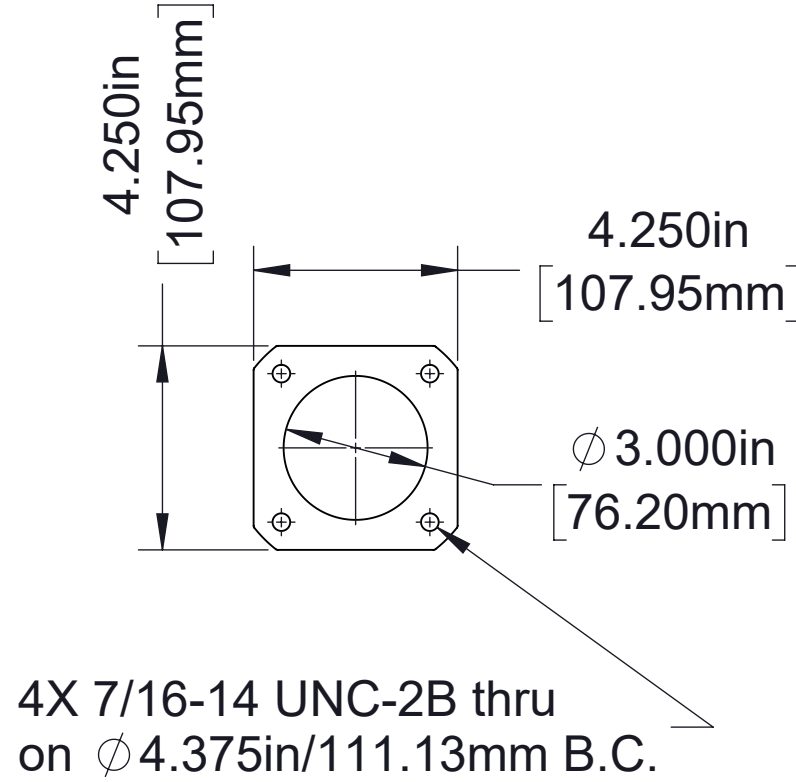
4-Bolt, 2-1/2 in Flange



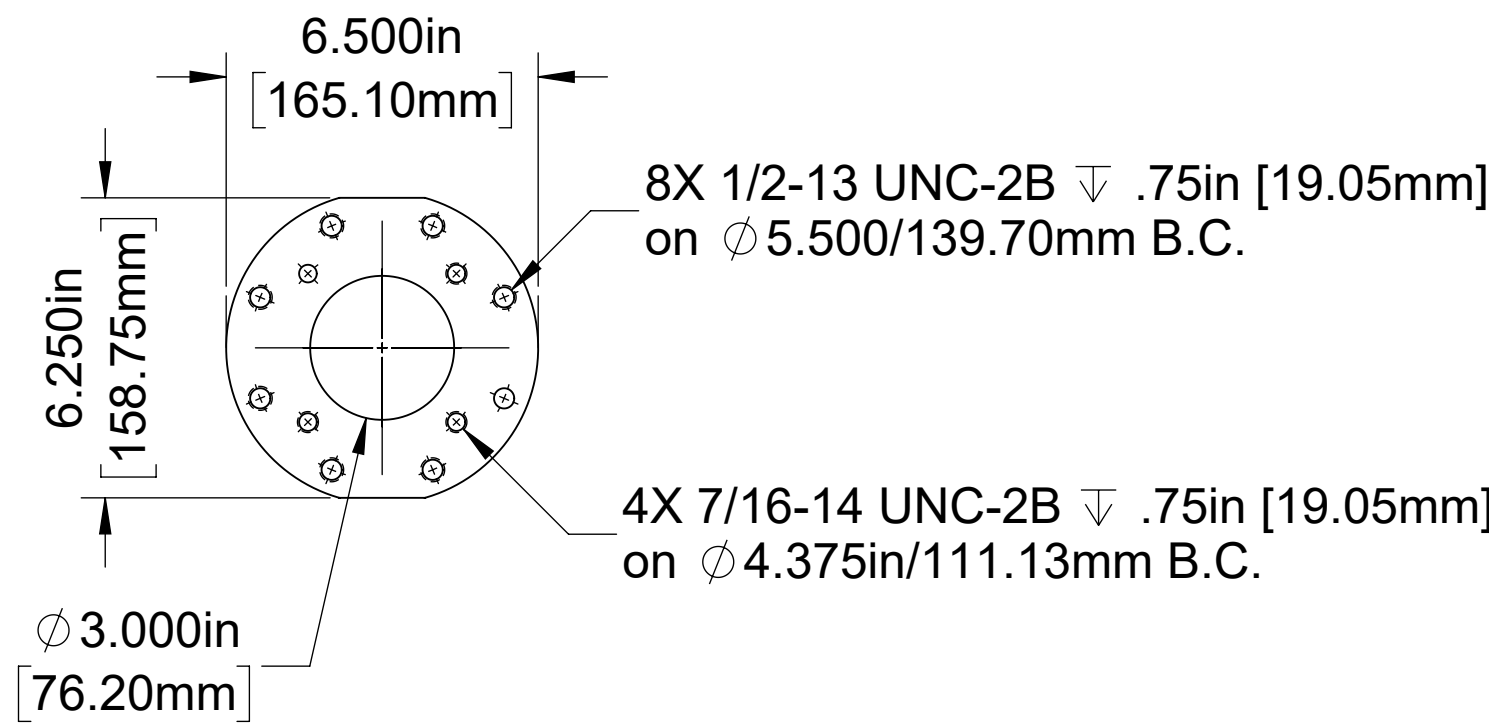
8-Bolt, 3-1/2 in Flange



4-Bolt, 2-1/2 in Flange
3 in Uni-Body
(Akron/Elkhart)



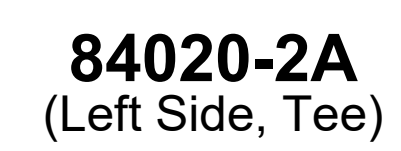
4-Bolt, 2-1/2 in Flange
(3 in Opening)



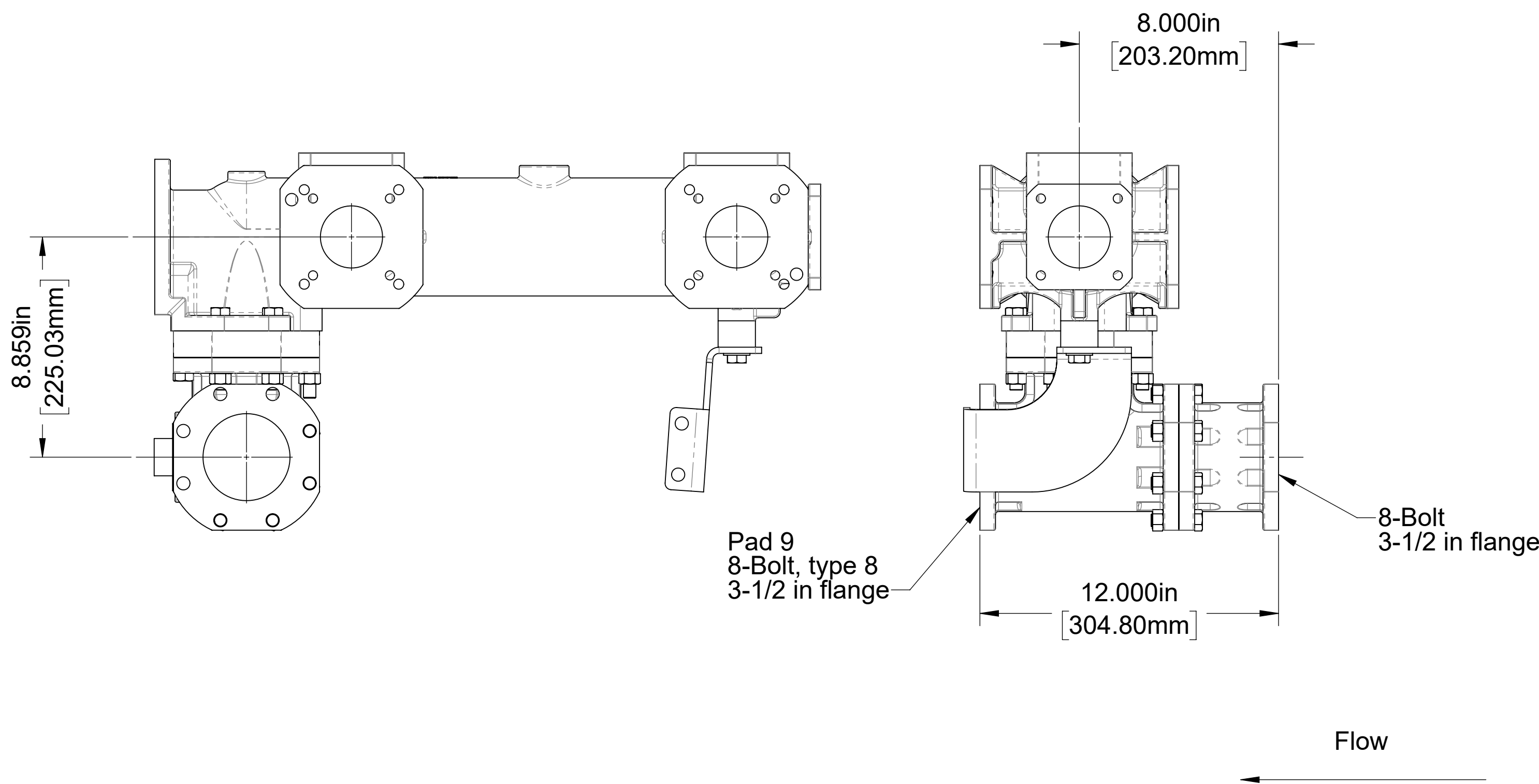
4-Bolt, 2-1/2 in Flange and
8-Bolt, 3 in Flange

Part Number	Pad 1		Pad 2		Pad 3		Pad 4		Pad 5		Pad 6		Pad 7		Pad 8	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
84020-1D	4-Bolt and 3 in Uni-Body	Type 1 or Type 71	4-Bolt and 3 in Uni-Body	Type 1 or Type 71	4-Bolt and 3 in Uni-Body	Type 1 or Type 71	4-Bolt and 3 in Uni-Body	Type 1 or Type 71	4-Bolt and 8-Bolt	Type 1 or Type 8	4-Bolt	Type 1	4-Bolt	Type 1	4-Bolt	Type 1

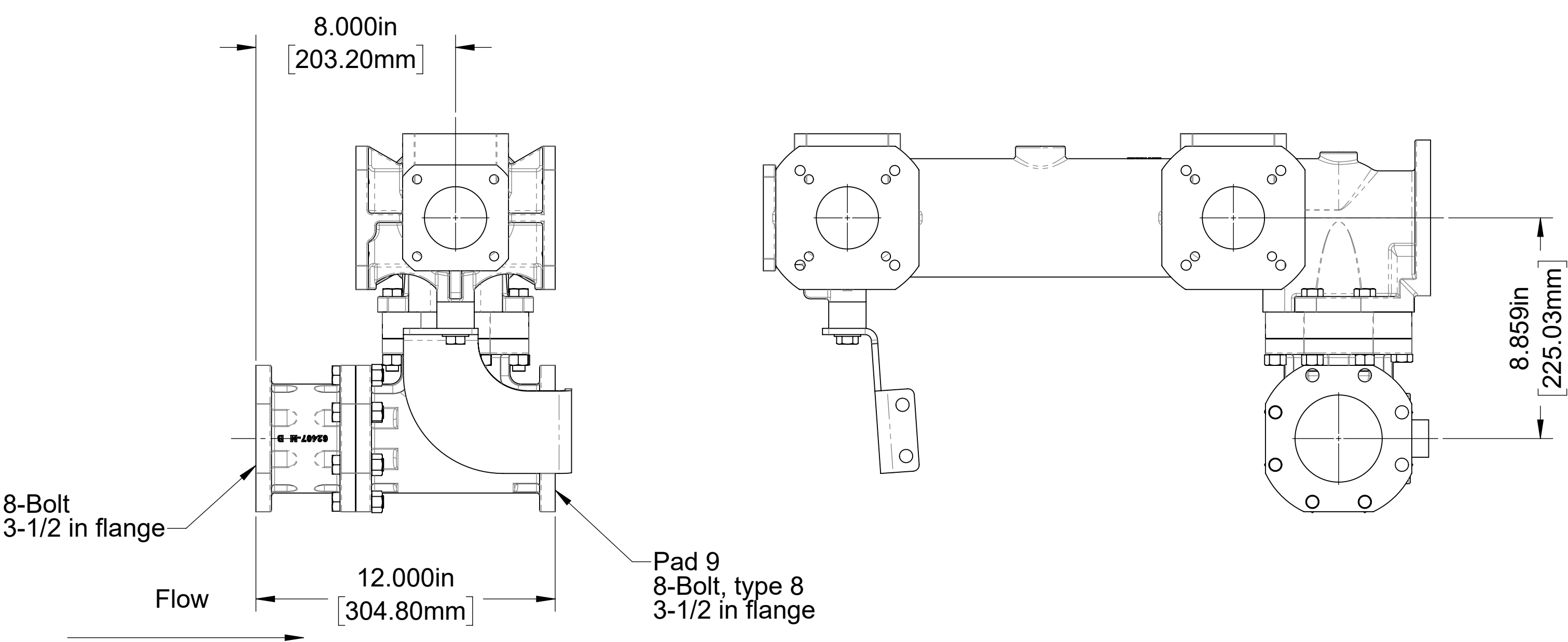
Notes:
1. Fittings are only available in iron.
2. See drawing DPL82088 for auxiliary fittings which may be installed on fitting pads.



"H" Manifold - Part Numbers 84020-2B, -3B

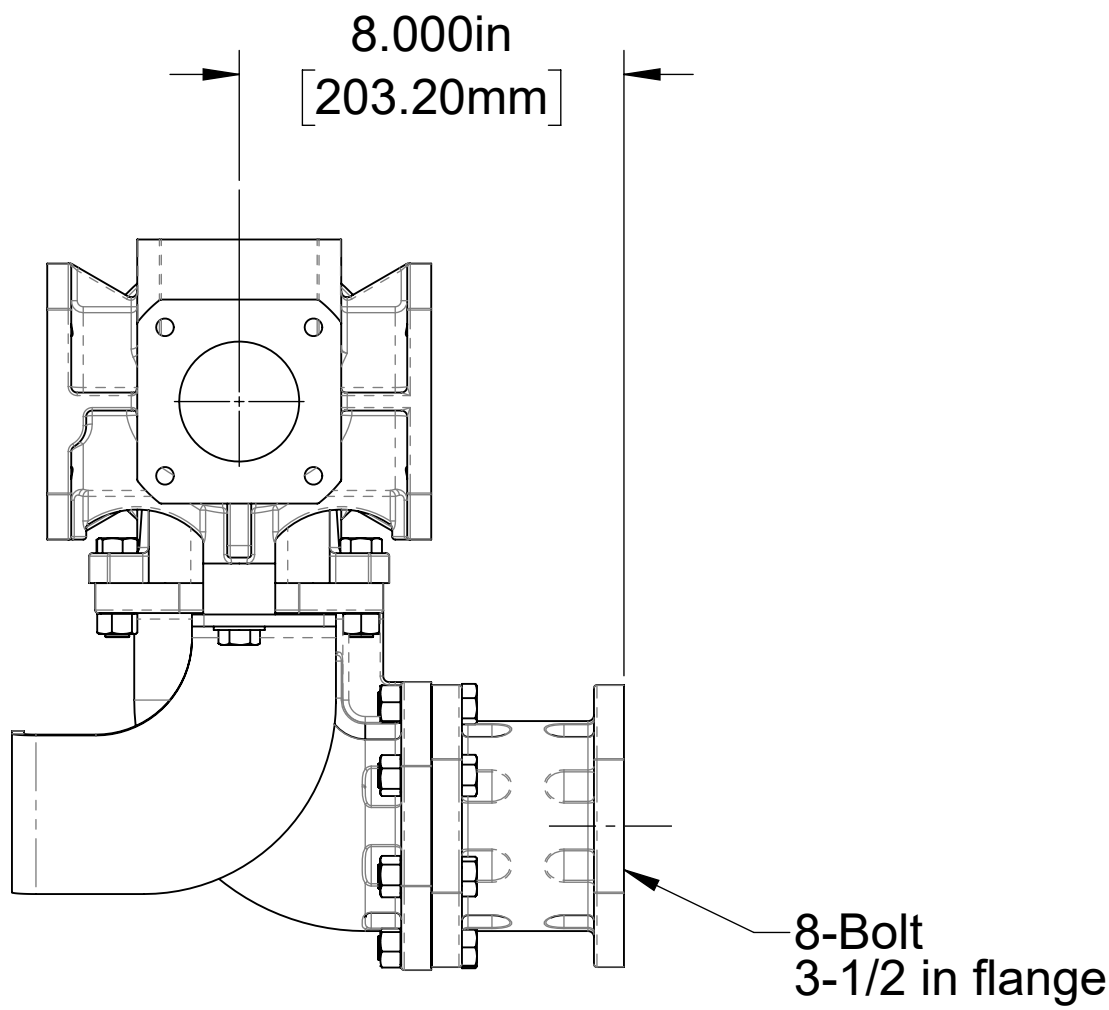
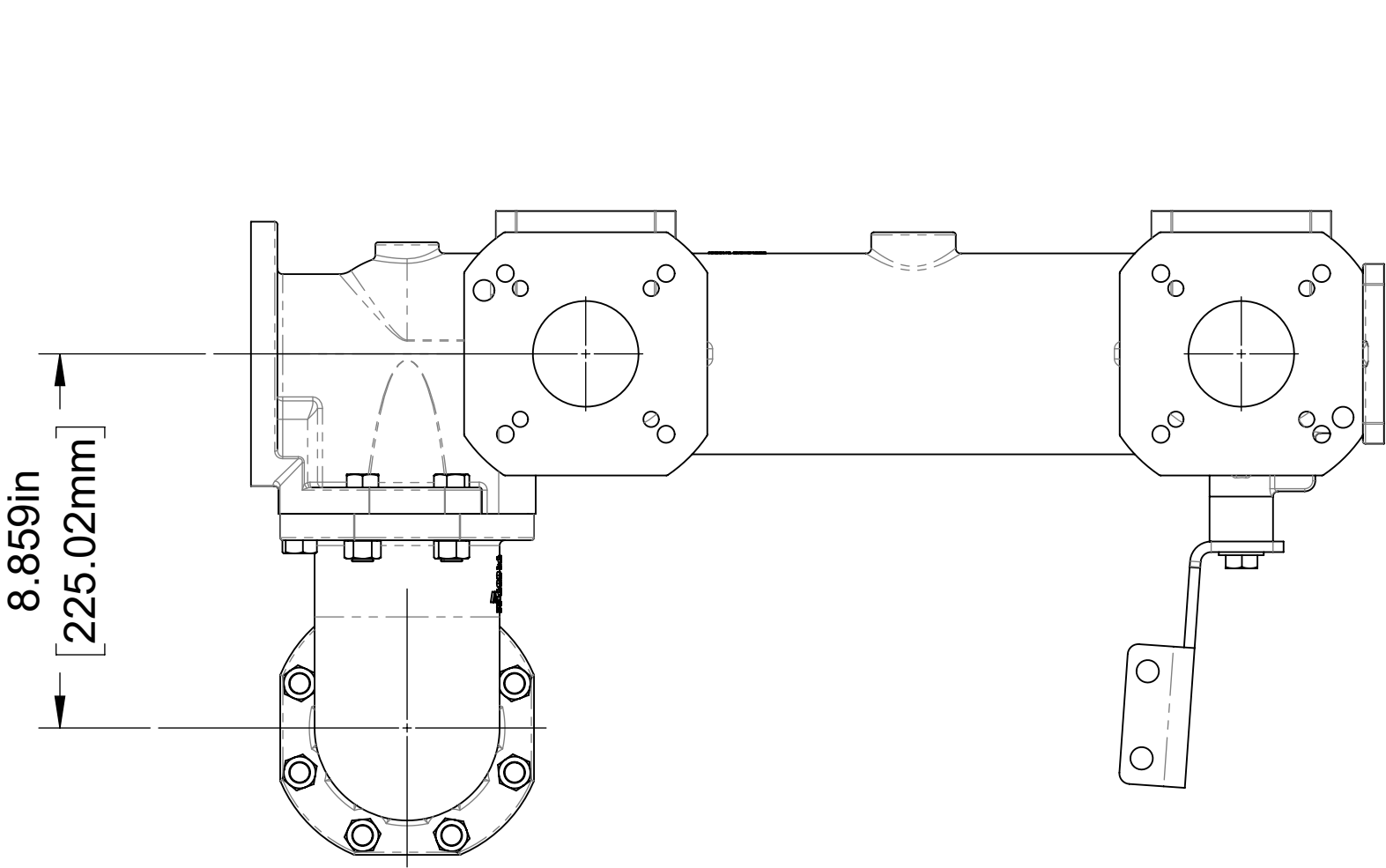


84020-2B
(Left Side, Tee with Spacer)



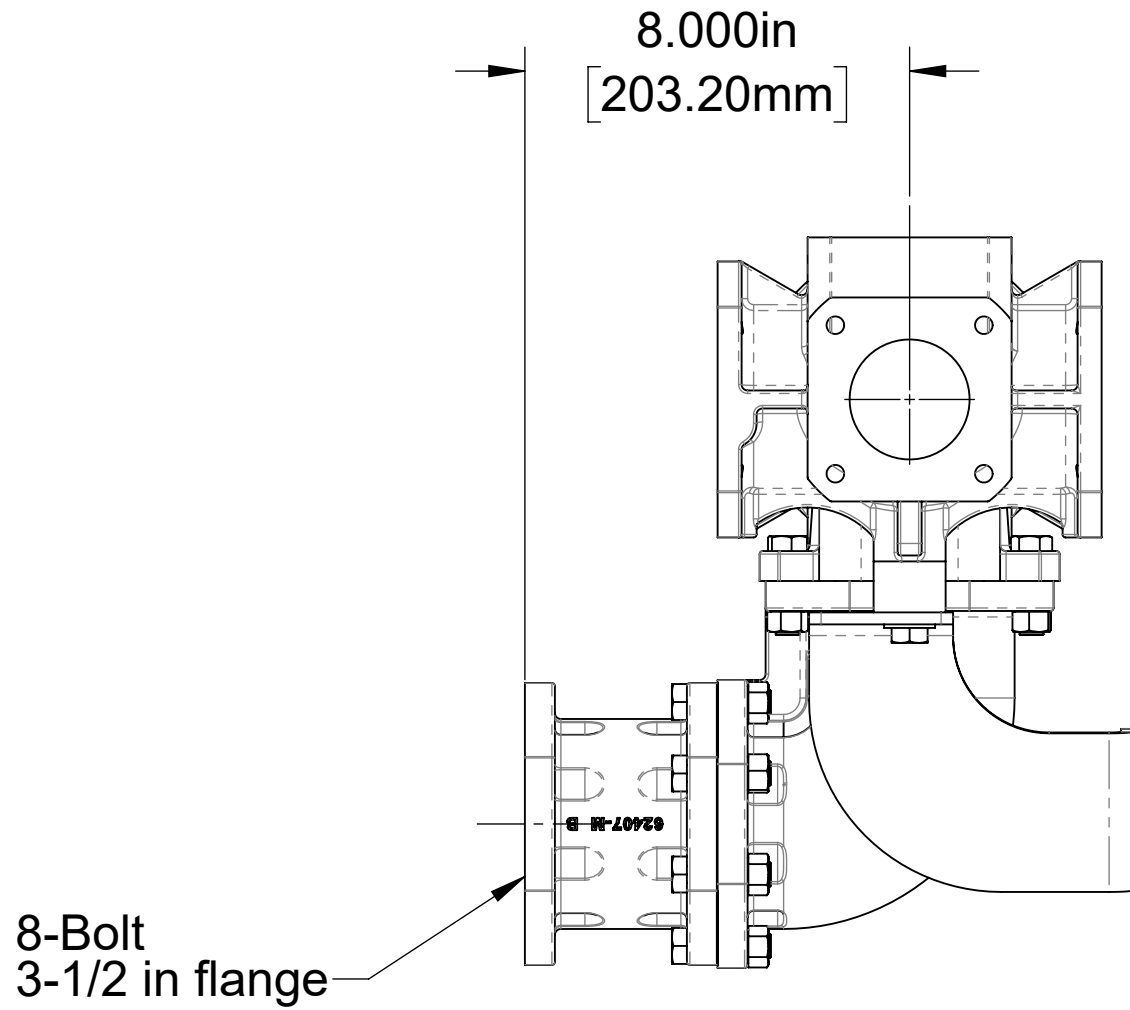
84020-3B
(Right Side, Tee with Spacer)

"H" Manifold - Part Numbers 84020-2C, -3C

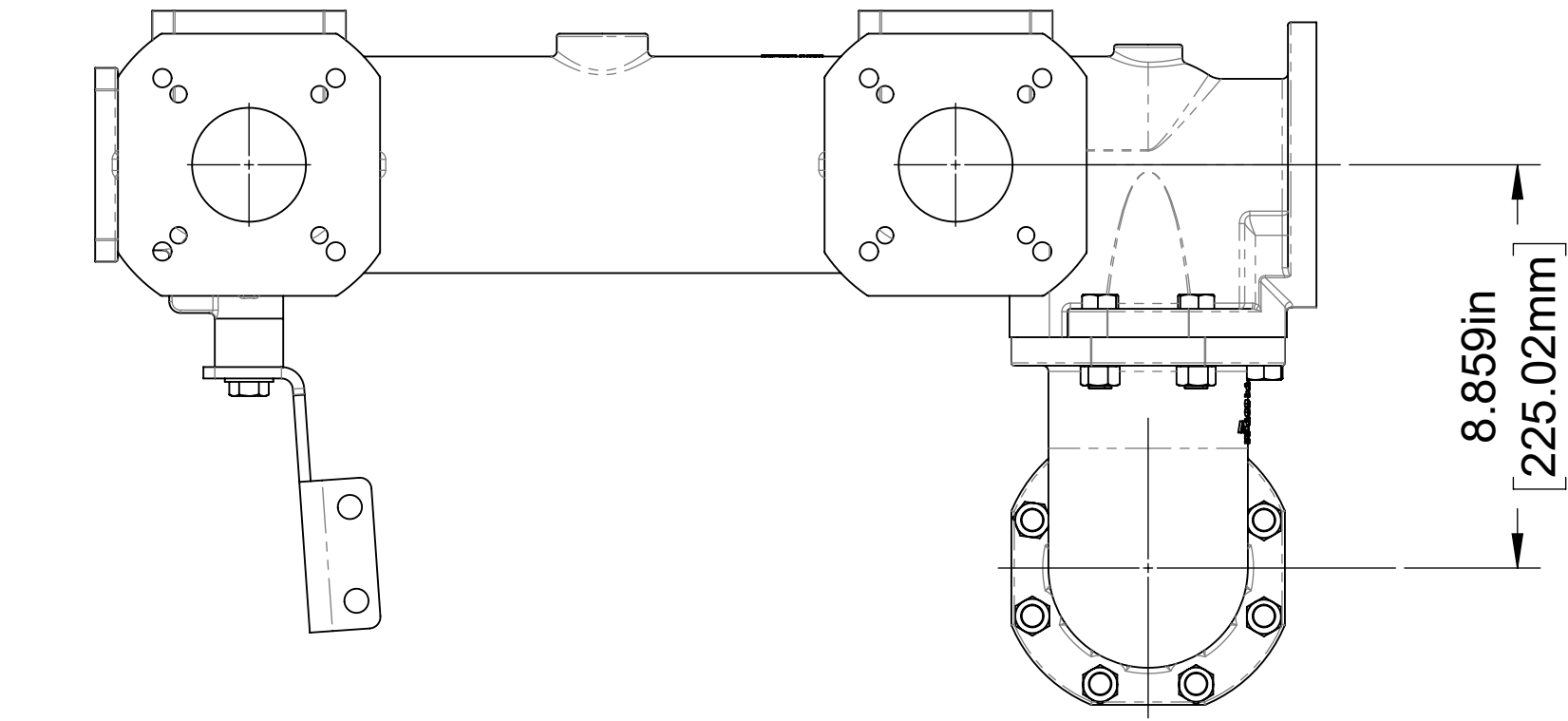


Flow ←

84020-2C
(Left Side, Elbow)

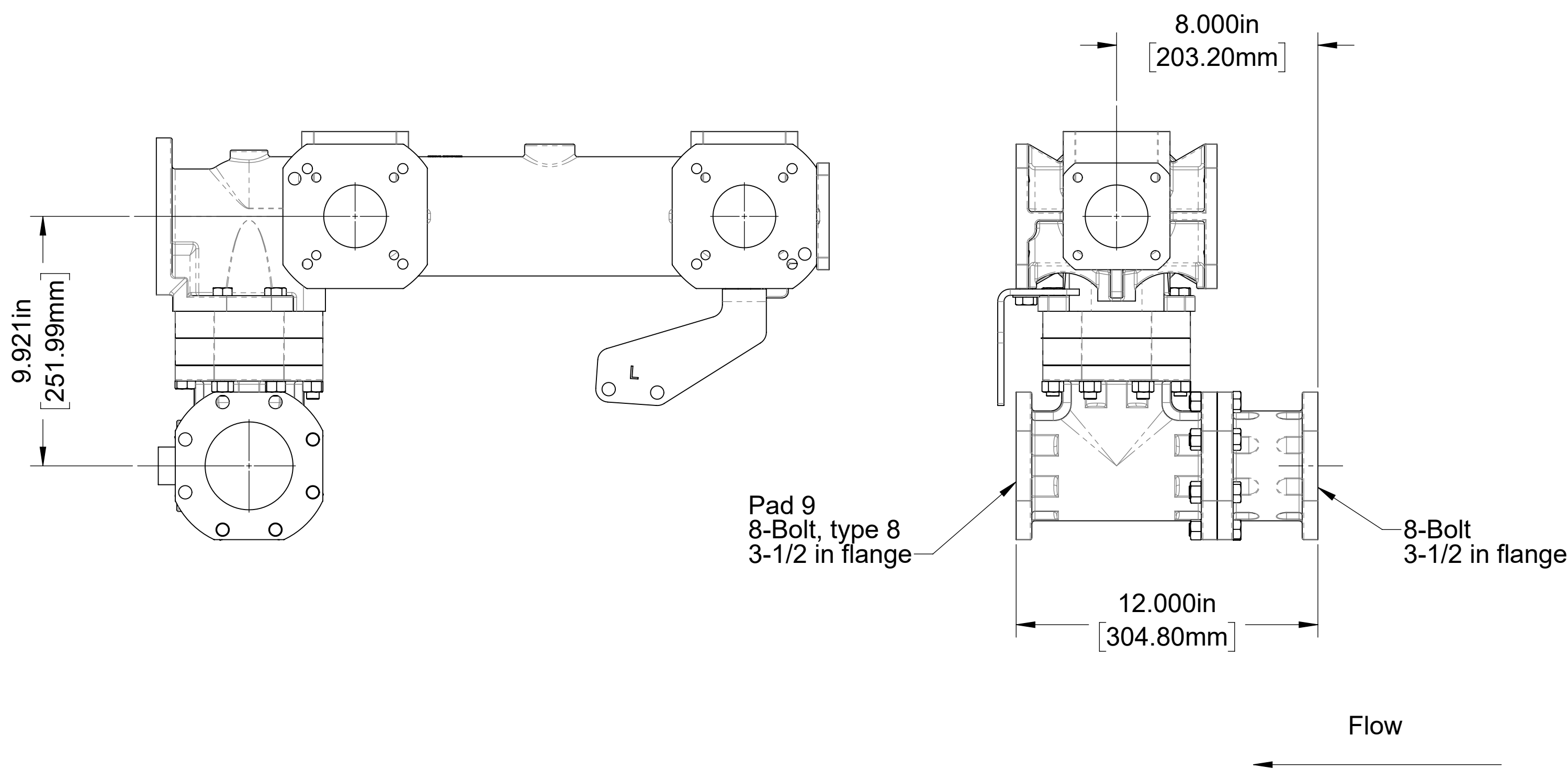


Flow →

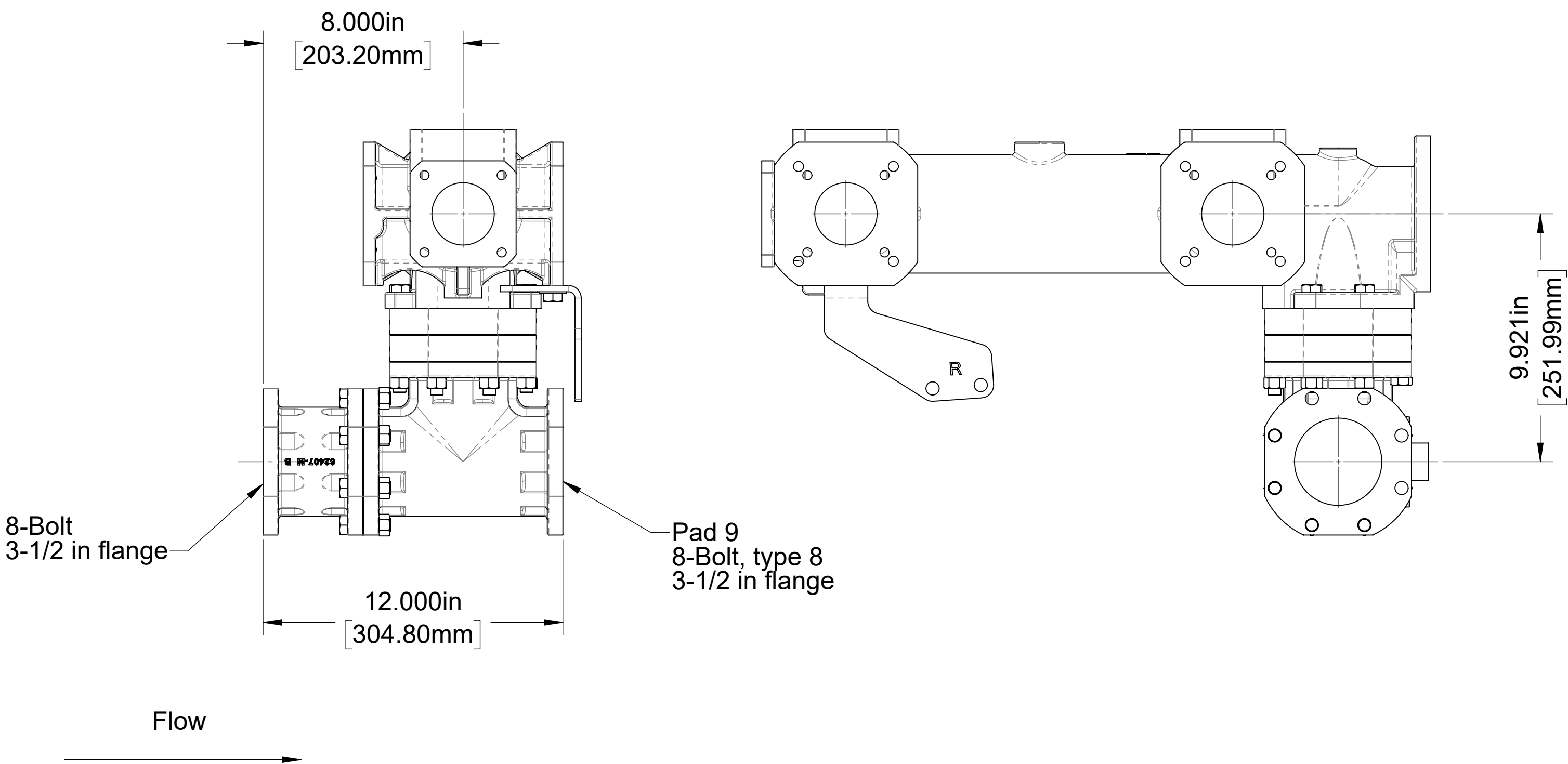


84020-3C
(Right Side, Elbow)

"H" Manifold - Part Numbers 84020-2D, -3D

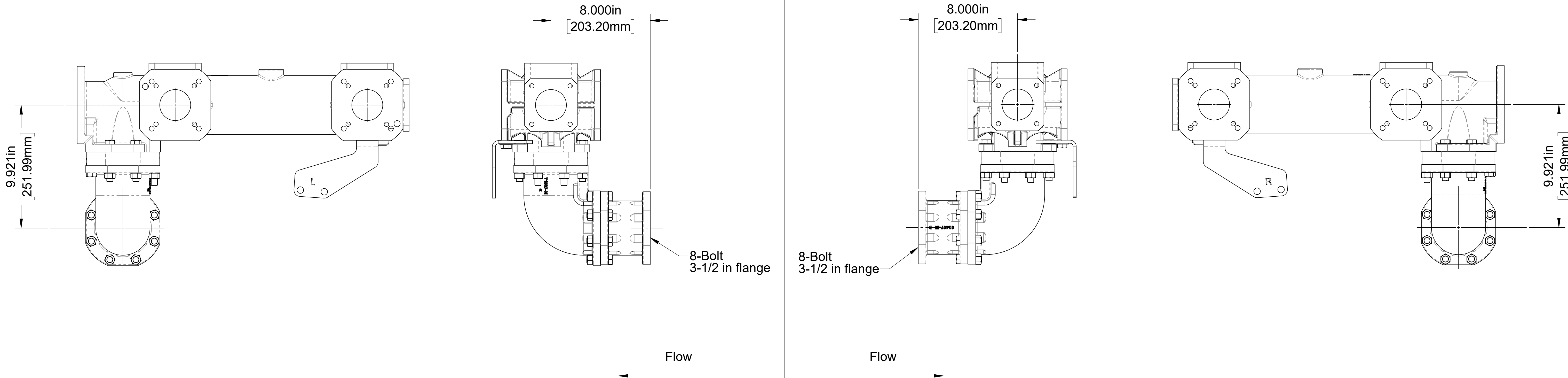


84020-2D
(Left Side, Tee, Rear Intake Adapter)



84020-3D
(Right Side, Tee, Rear Intake Adapter)

"H" Manifold - Part Numbers 84020-2E, -3E

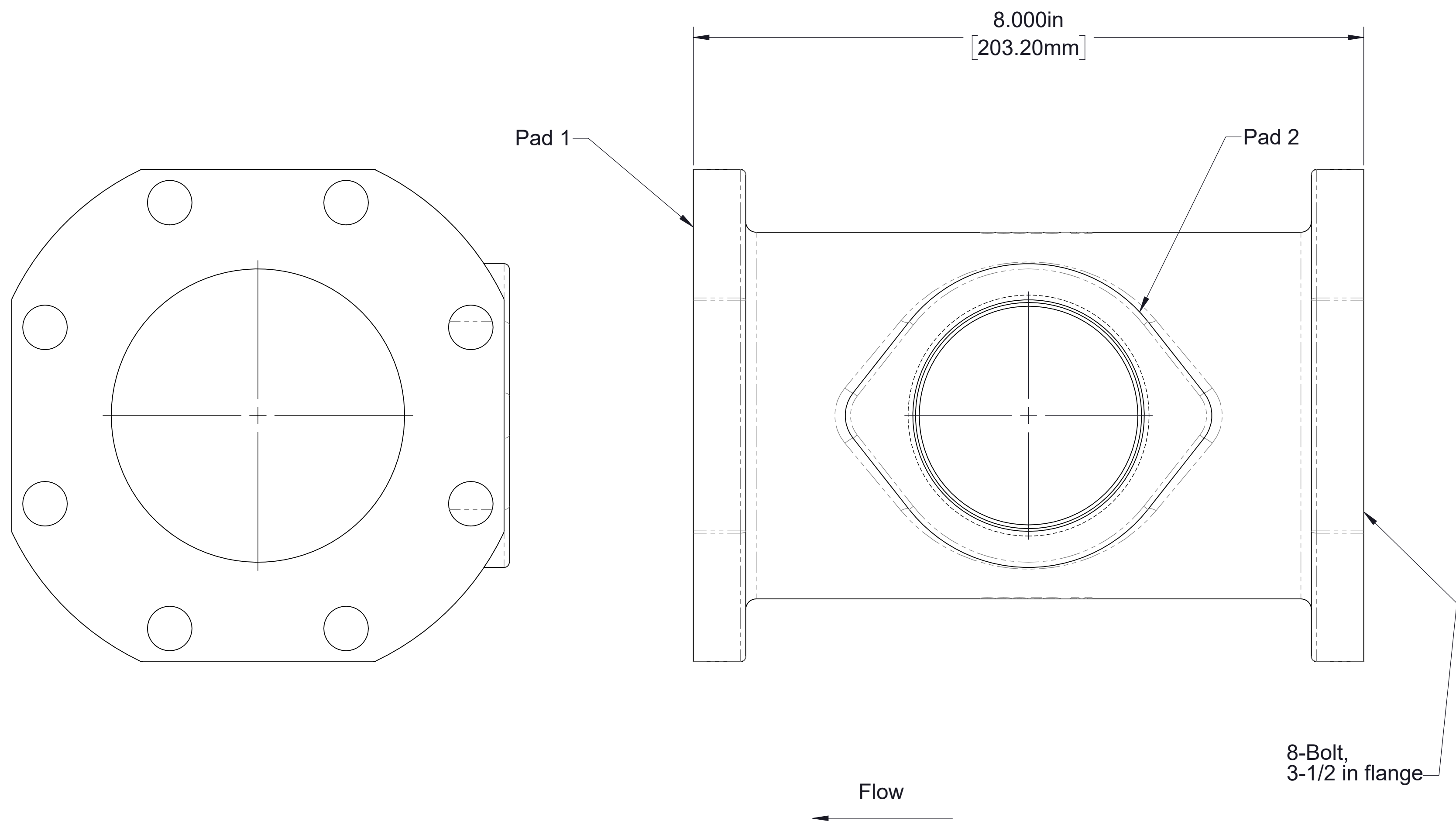


84020-2E
(Left Side, Elbow, Rear Intake Adapter)

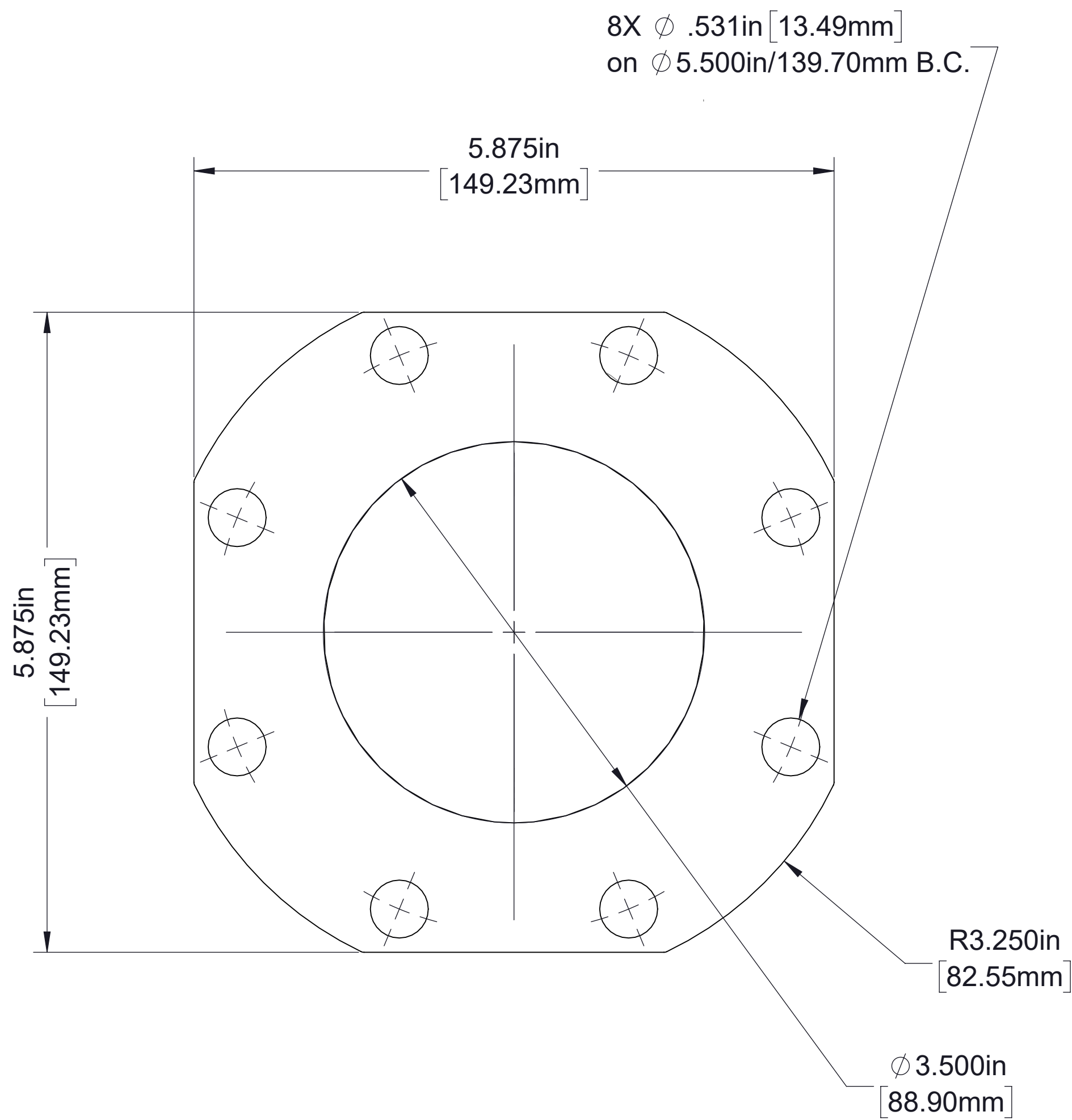
84020-3E
(Right Side, Elbow, Rear Intake Adapter)

3-1/2 in 8-Bolt Fittings

Extension



Part Number	Pad 1		Pad 2	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
62052-1	8-Bolt	Type 8	2-1/2 NPT	Type 2



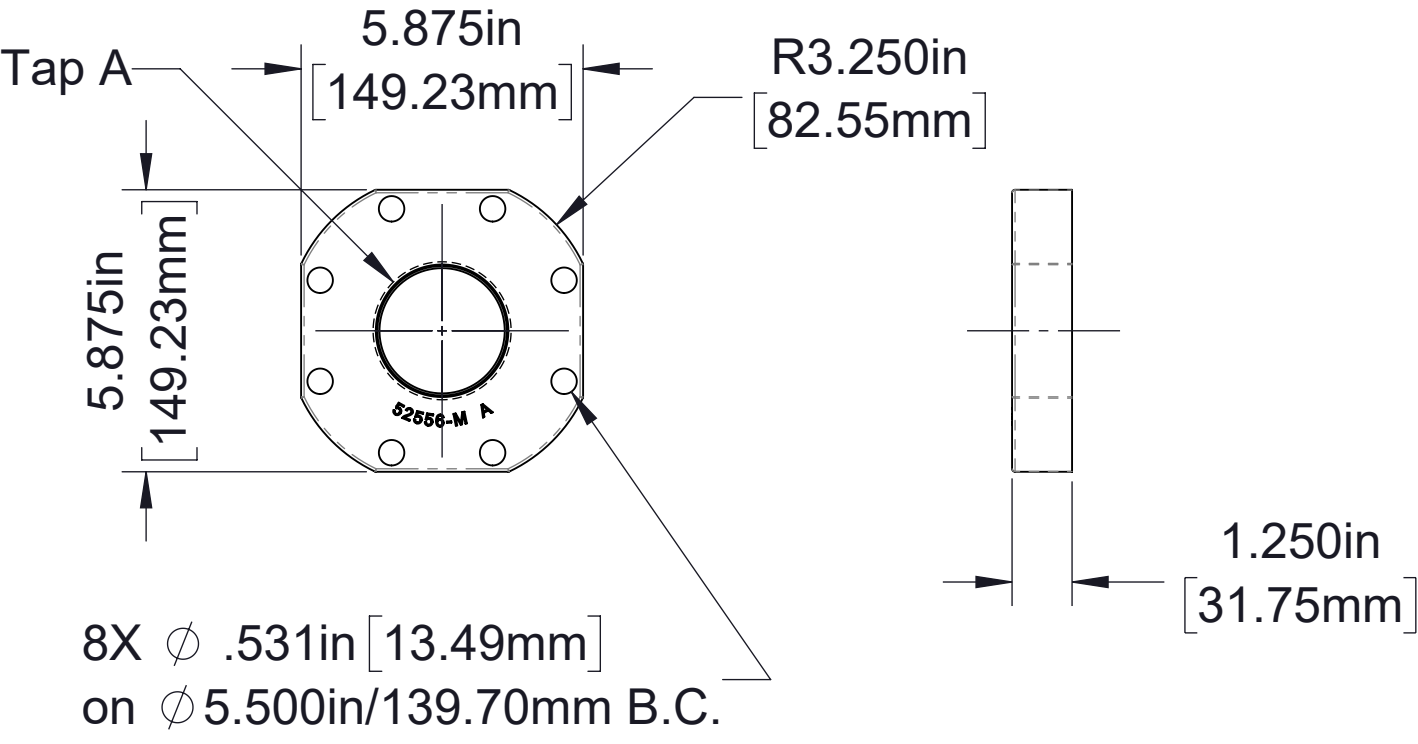
Use gasket 51195 or 52108

8-Bolt, 3-1/2 in Flange

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

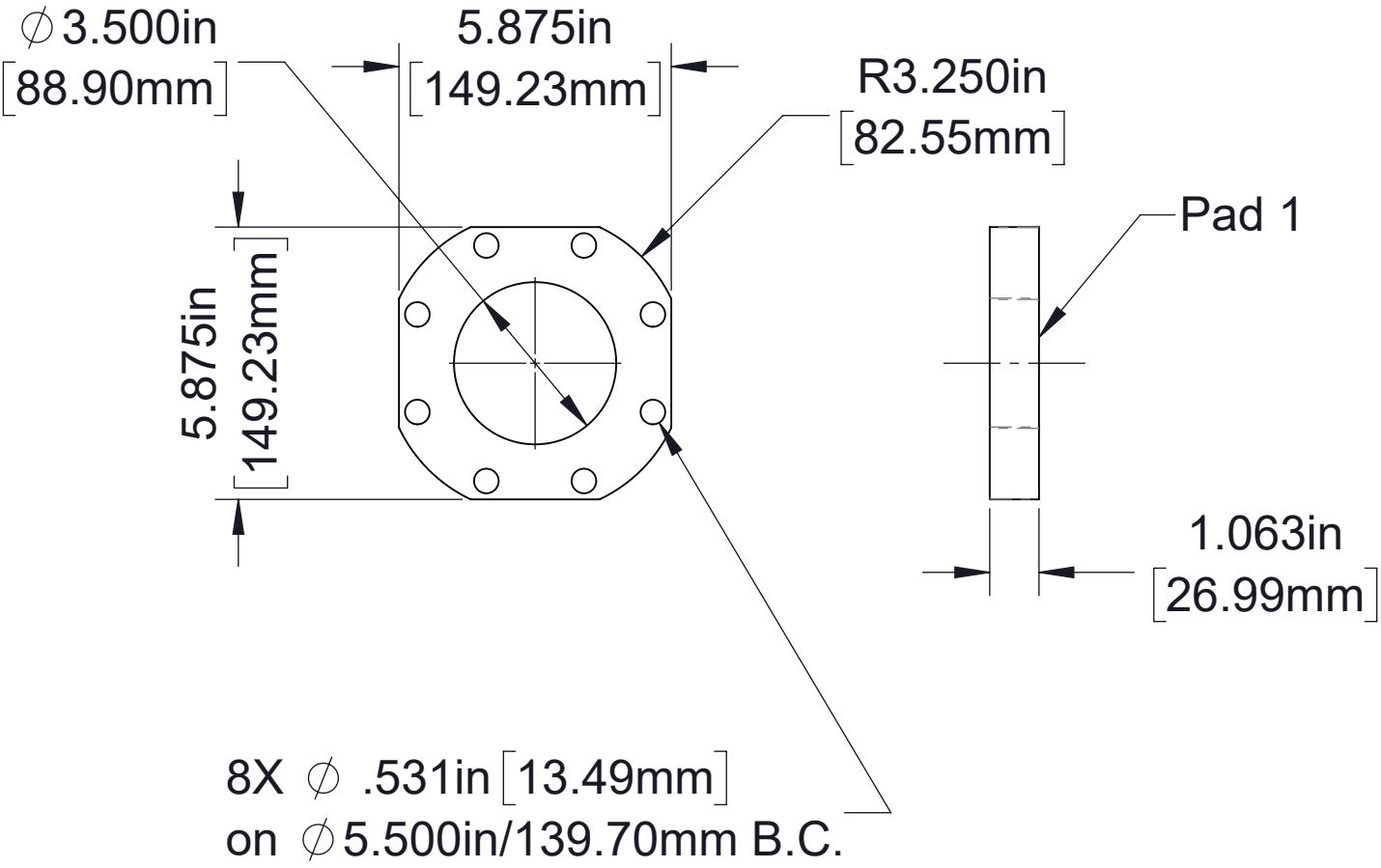
3-1/2 in 8-Bolt Fittings

Flanges



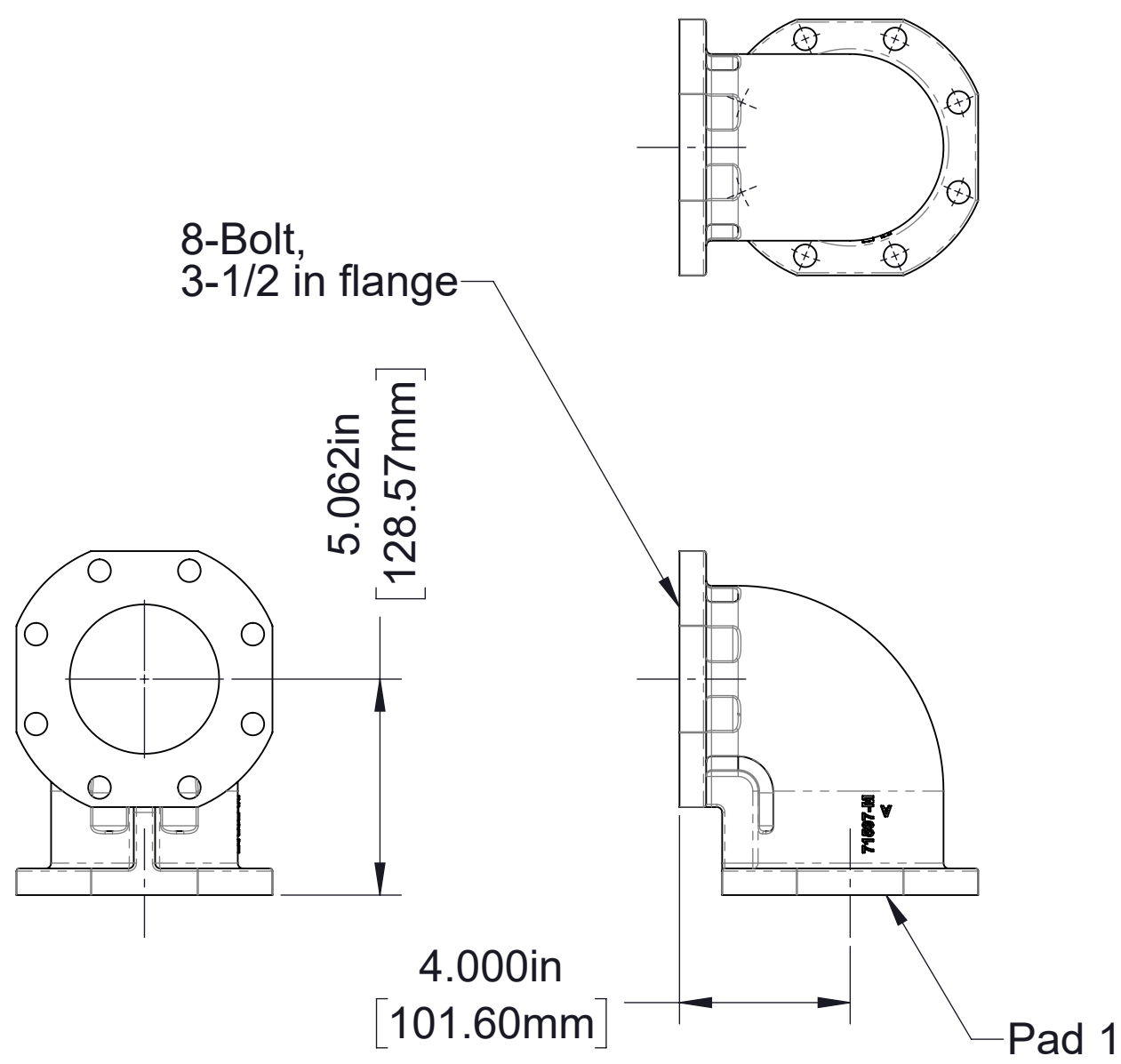
Tapped Flanges	
Part Number	Tap A
*52556	2-1/2 NPT
*51744	3 NPT
*51744-1	3-1/2 NPT
51744-4B	4 NPT

*Available in iron only



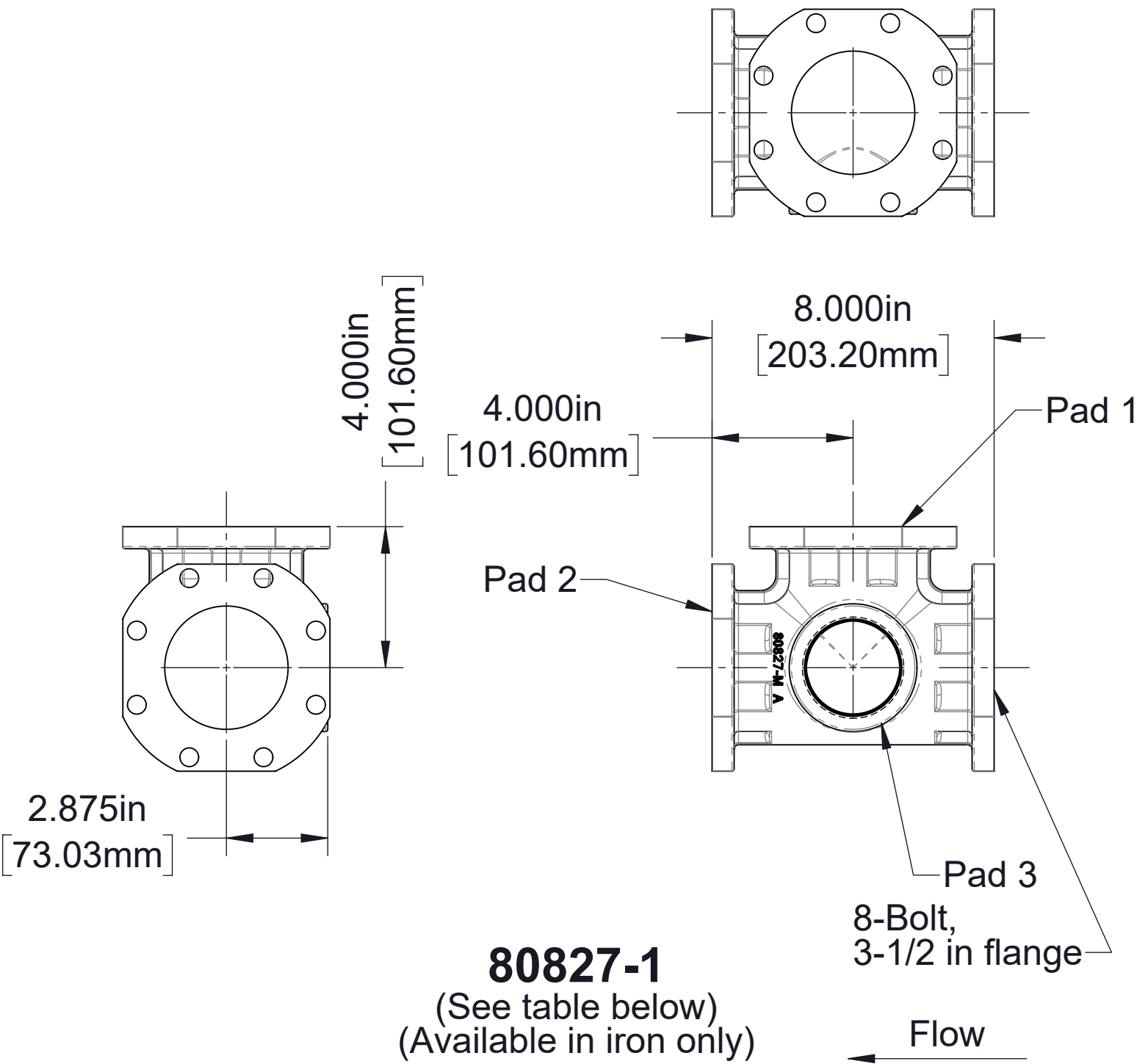
Spacer 51754-A
(Includes gasket and mounting hardware)
(See table below)

Elbow

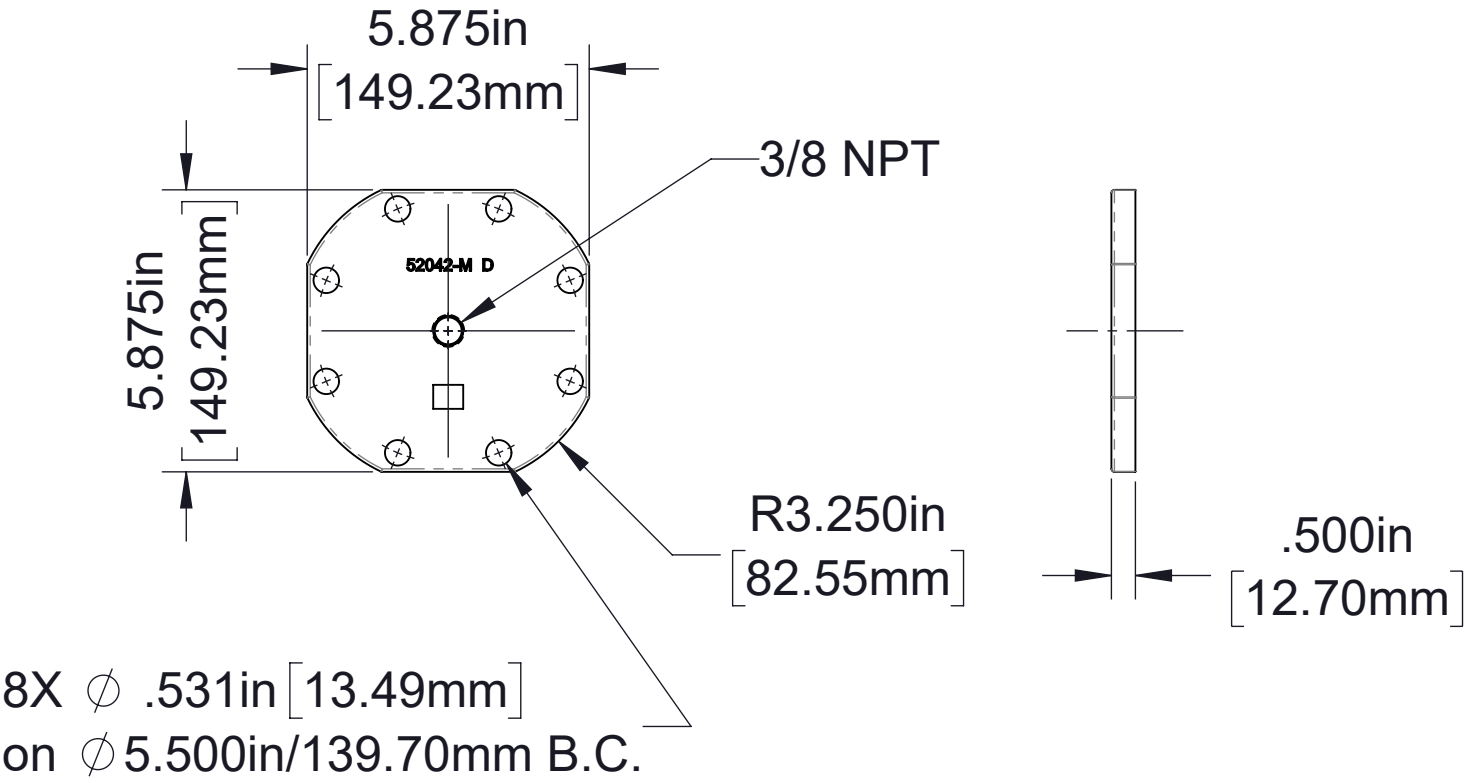


71597
(See table below)

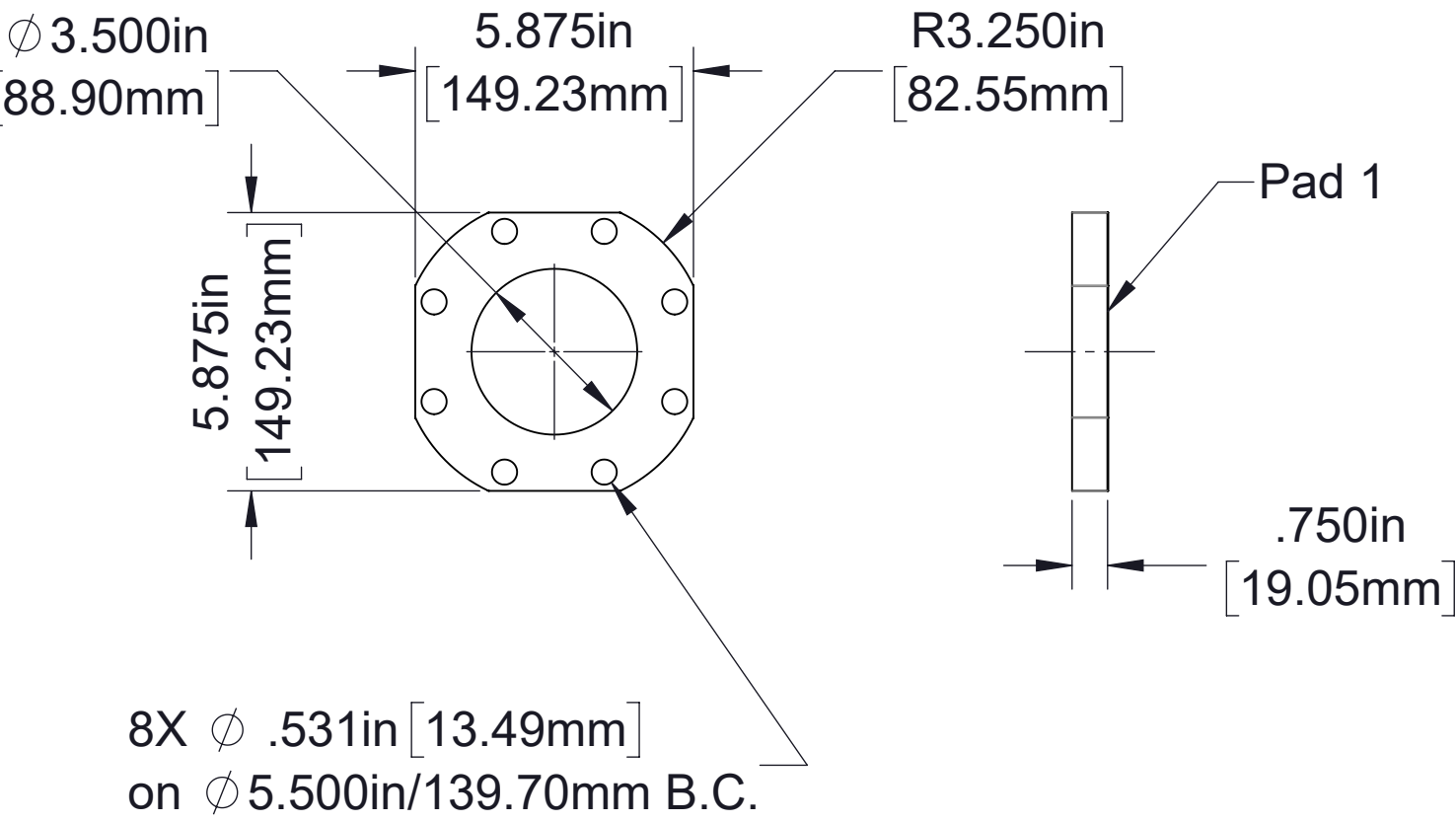
Tee



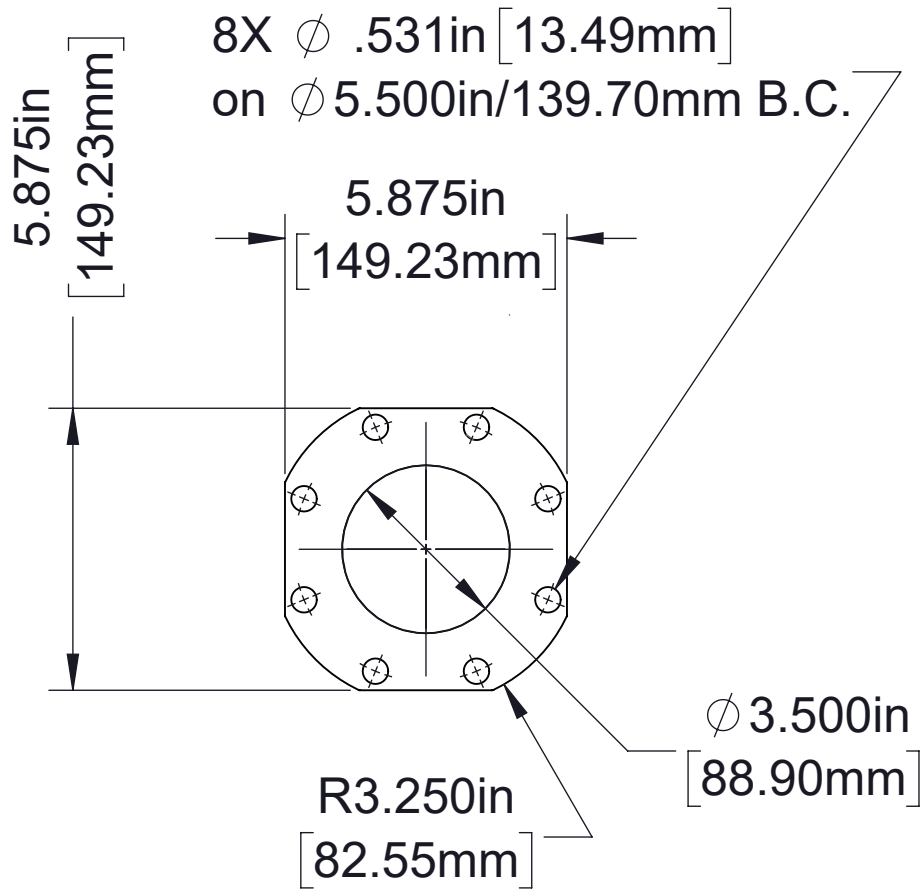
80827-1
(See table below)
(Available in iron only)



Blind Flange 52042-1



Spacer 52703-A
(See table below)



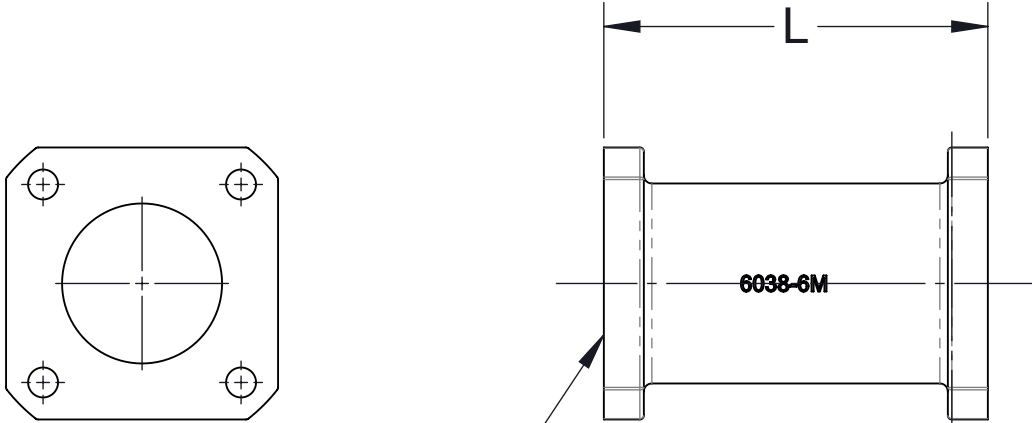
Use gasket 51195 or 52108
8-Bolt, 3-1/2 in Flange

Part Number	Pad 1		Pad 2		Pad 3	
	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings	Machined	Install Auxiliary Fittings
51754-A	8-Bolt	Type 8	--	--	--	--
52703-A	8-Bolt	Type 8	--	--	--	--
71597	8-Bolt	Type 8	--	--	--	--
80827-1	8-Bolt	Type 8	8-Bolt	Type 8	2-1/2 NPT	Type 2

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

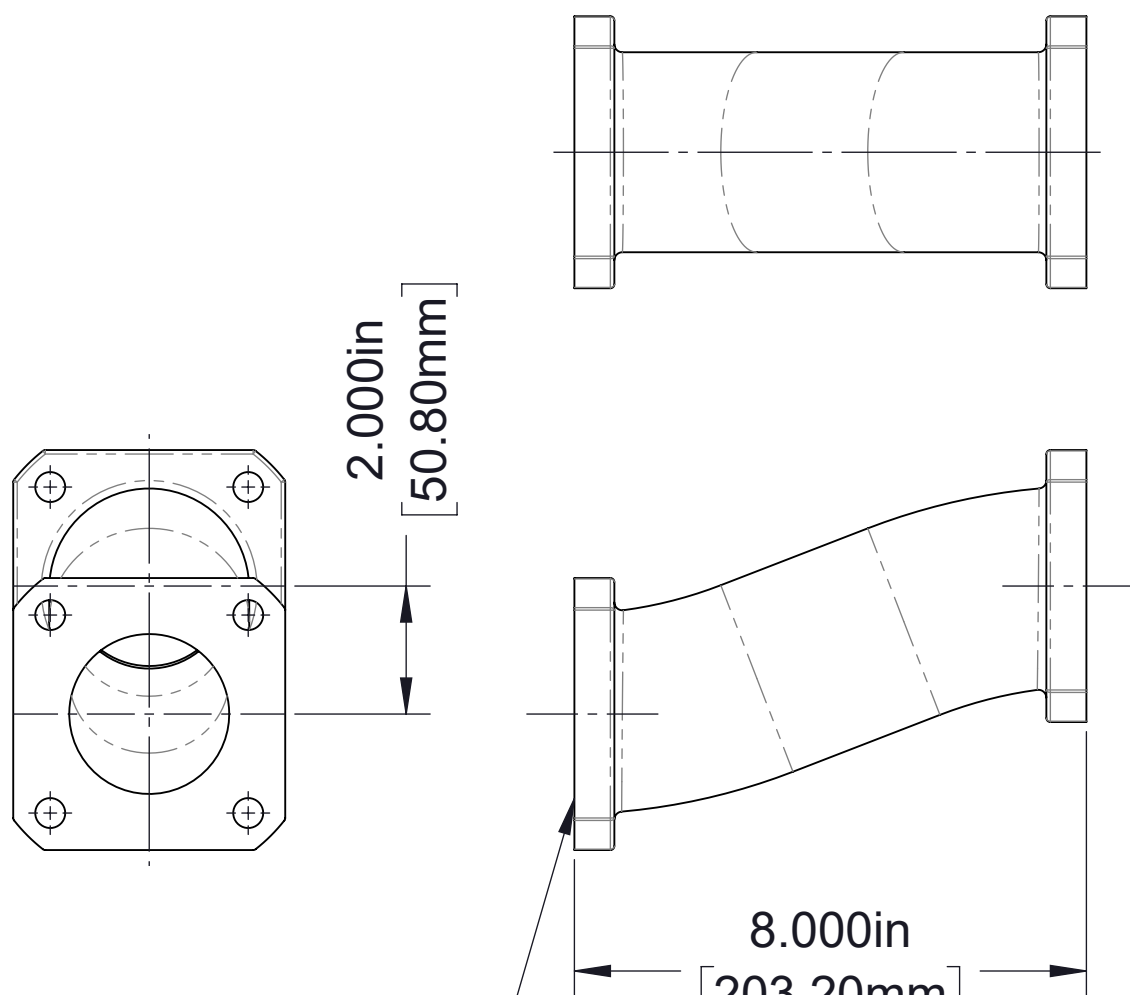
2-1/2 in 4-Bolt Fittings

Extensions



See detail 2 (both ends)

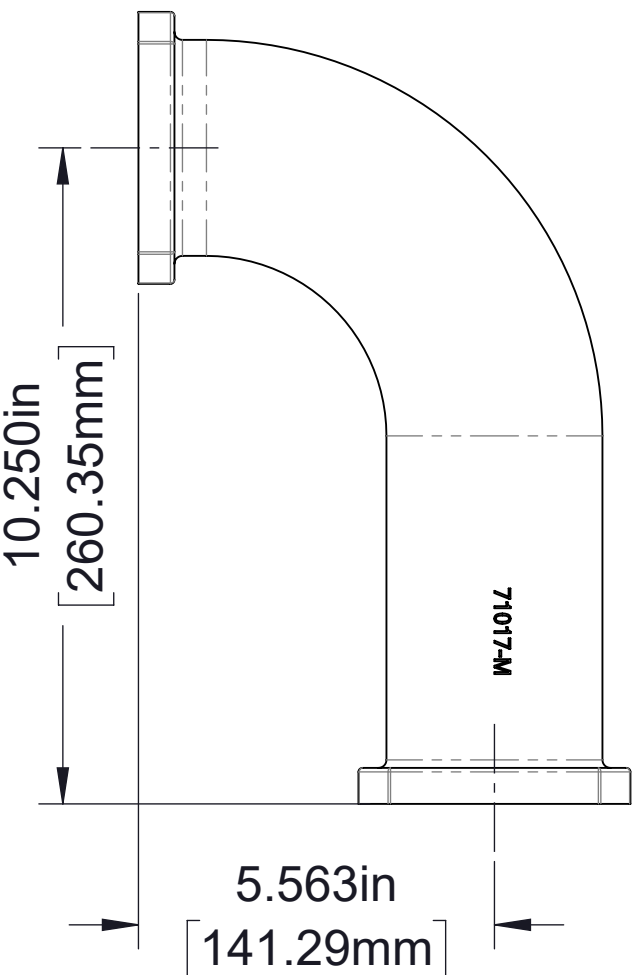
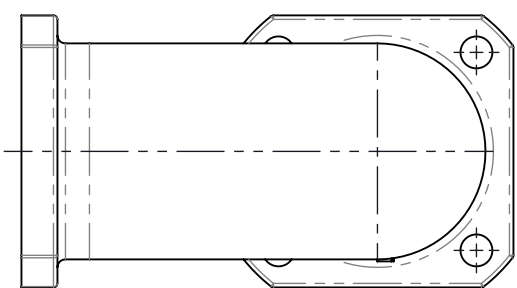
Part Number	L	Includes Gasket
6038-4A	4.00/101.60	51218
6038-6A	6.00/152.40	
6038-8A	8.00/203.20	



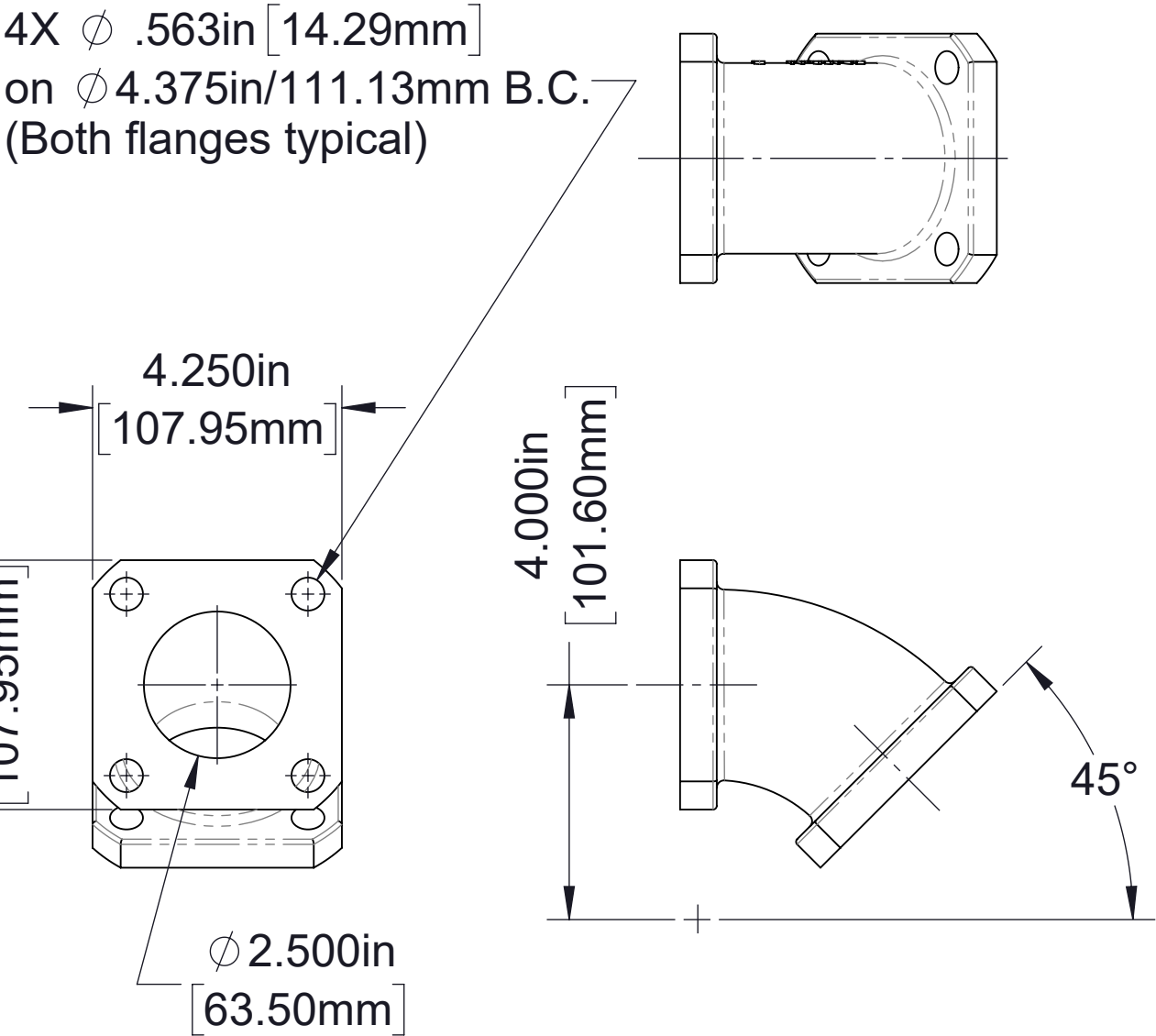
See detail 1 (both ends)

Part Number	Includes Gasket
71037-A	51218

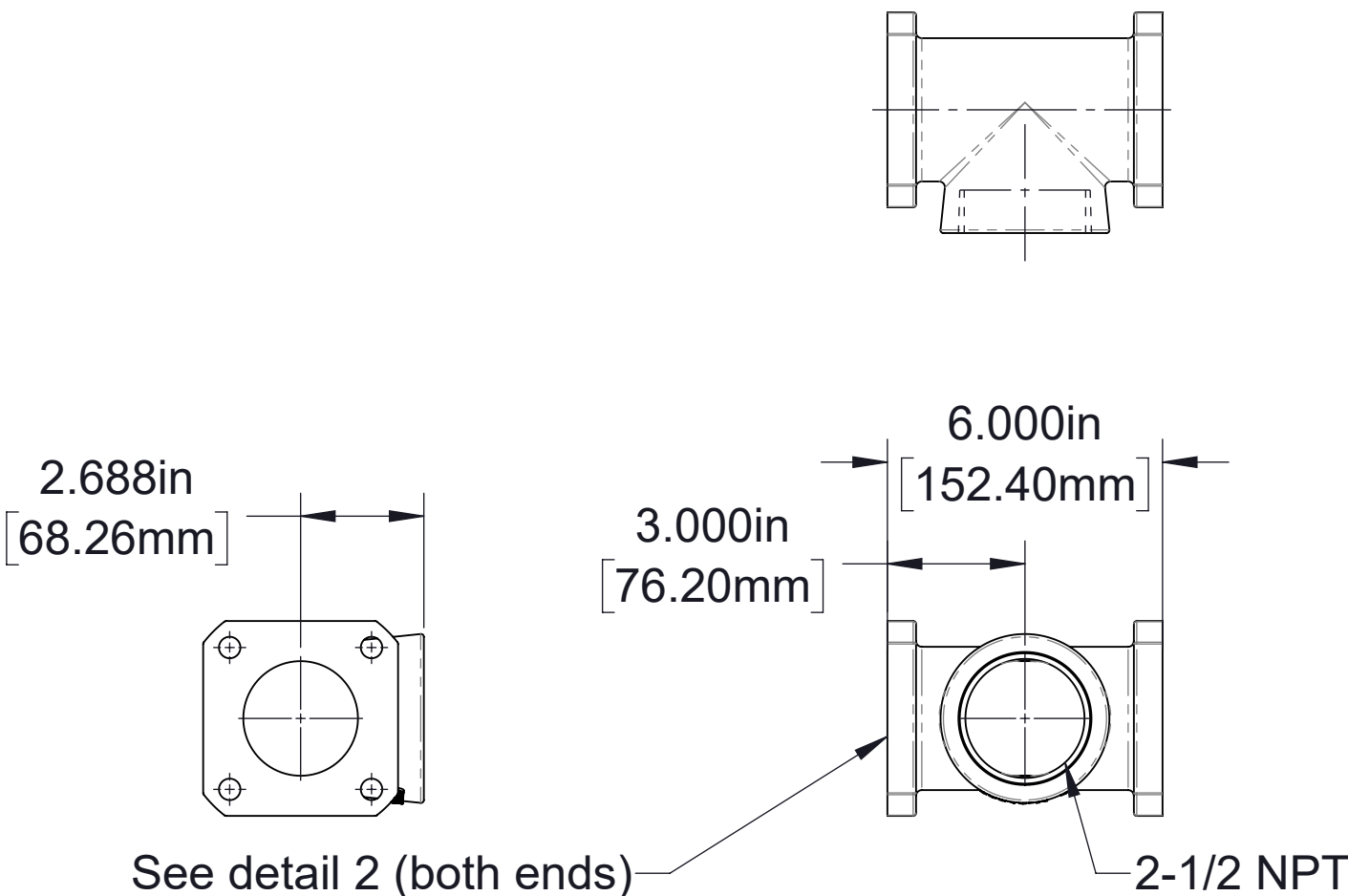
Elbows



Part Number	Description	Includes Gasket
71017-A	90° Long Sweep	51218

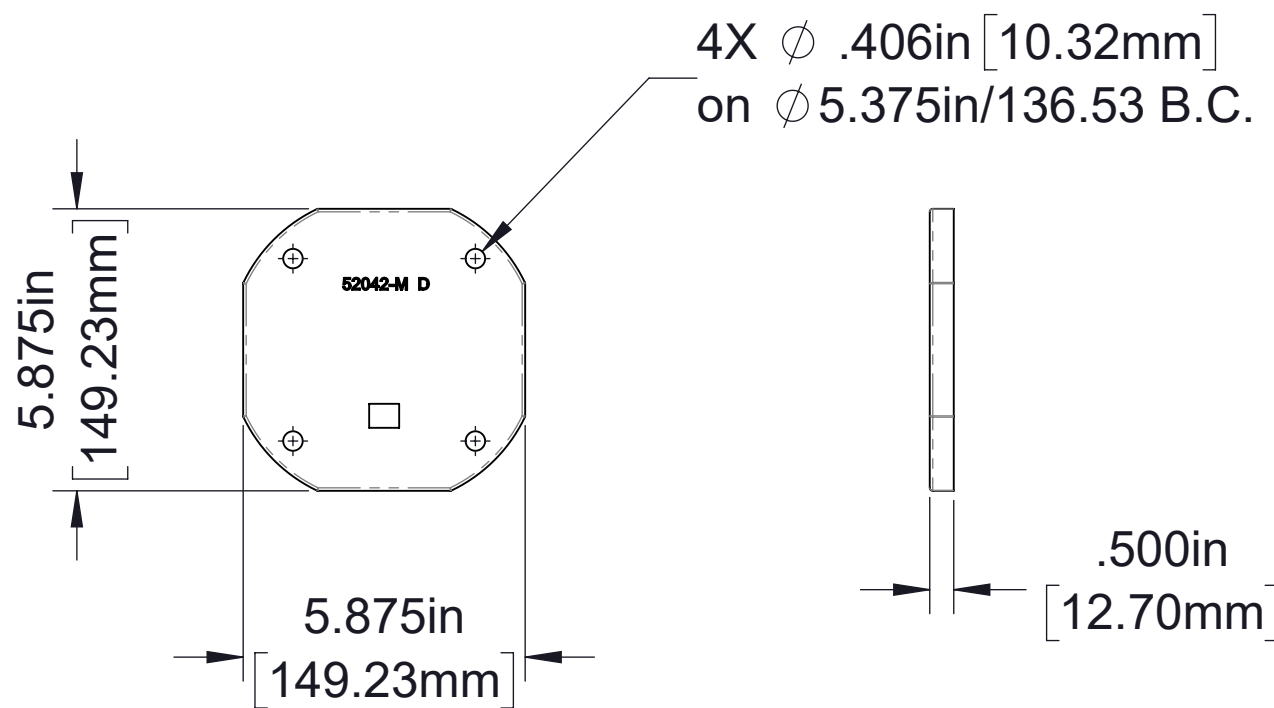


Part Number	Description	Includes Gasket
70436-A	45° Elbow	51218

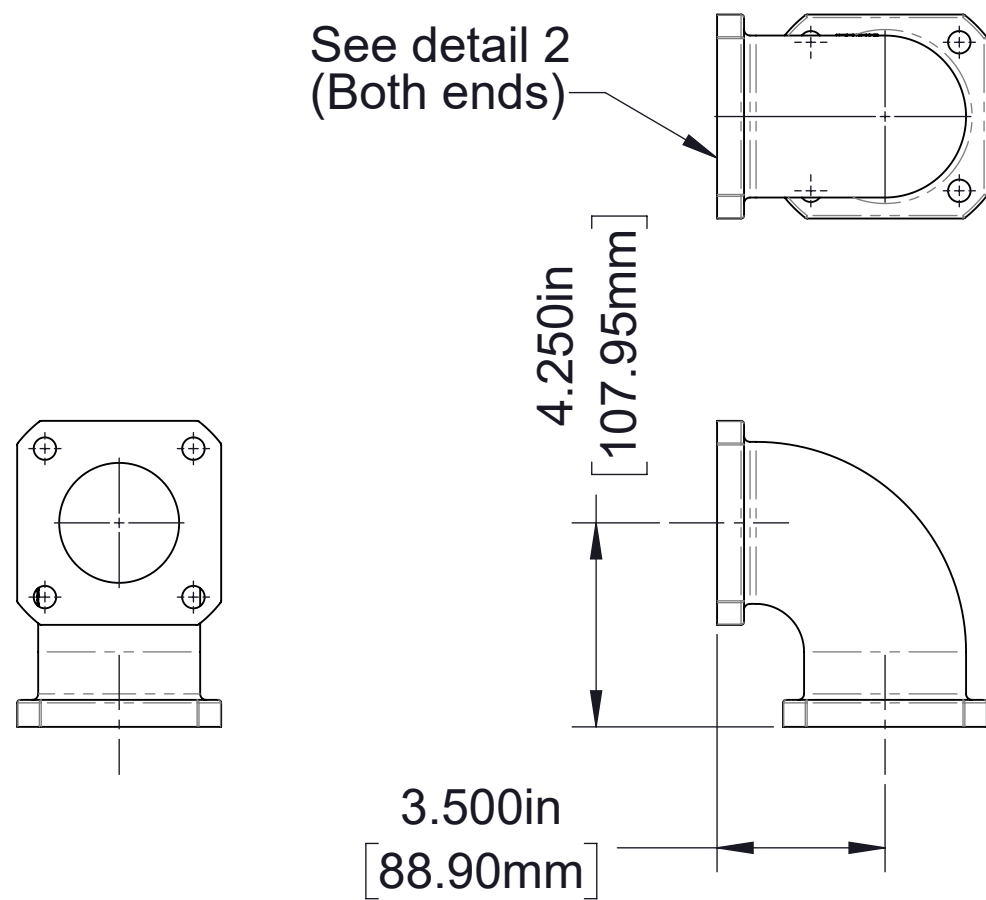


See detail 2 (both ends)

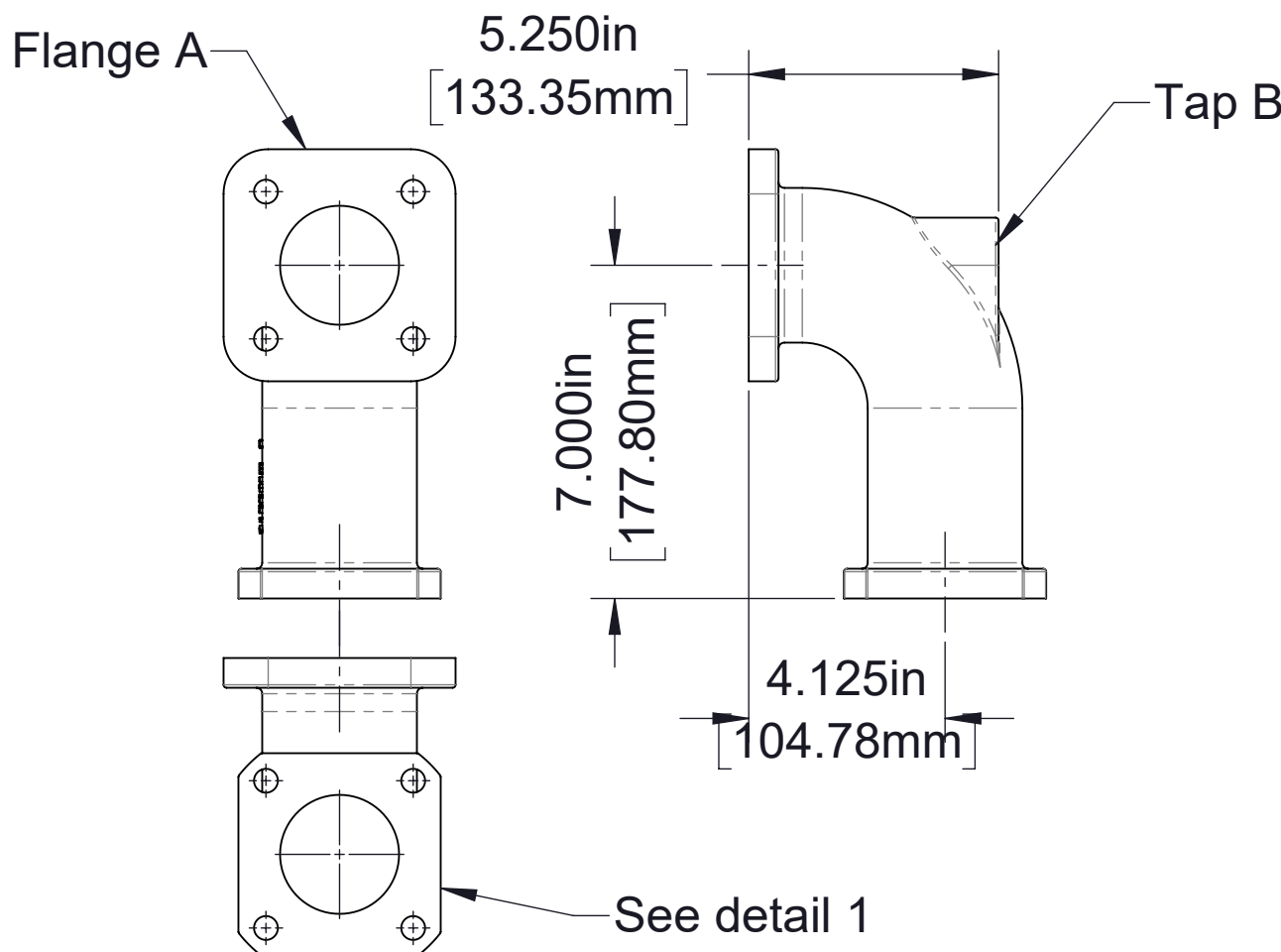
Part Number	Includes Gasket
60346-A	51218



Part Number	Description	Includes O-Ring
63615-A	Blind Flange	W 3756-4

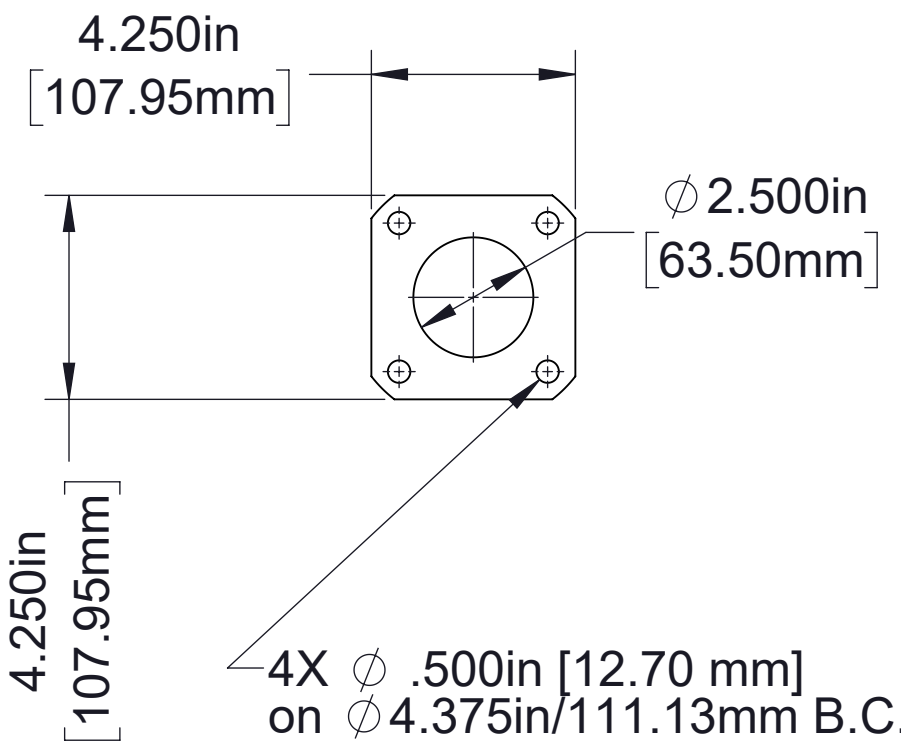


Part Number	Description	Includes Gasket
61424-A	90° Short Elbow	51218



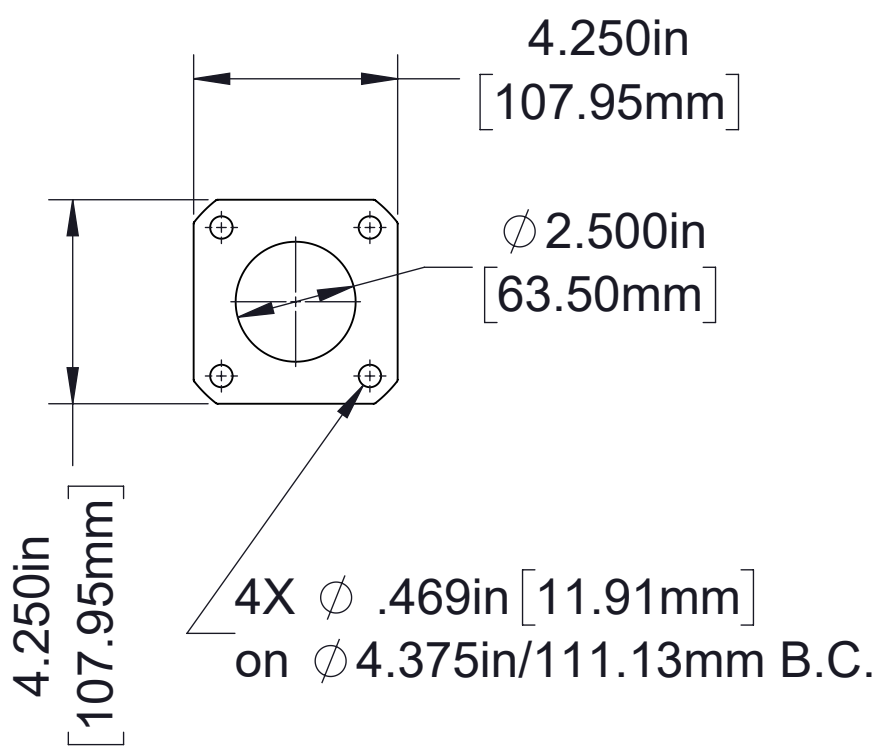
Part Number	Description	Flange A	Tap B	Includes Gasket
71443-A	90° Medium Elbow	See Detail 1	---	51218
71443-1A	90° Medium Elbow	See Detail 1	1 NPT	
71443-2A	90° Medium Elbow	See Detail 3	---	

- Notes:
1. All fittings are available in iron or bronze unless otherwise specified, add "-BZ" suffix to part number for bronze fittings.
 2. All fittings include gaskets and mounting hardware.
 3. See drawing DPL82088 for auxiliary fittings which may be installed on these fittings. (Use type 1 fittings)



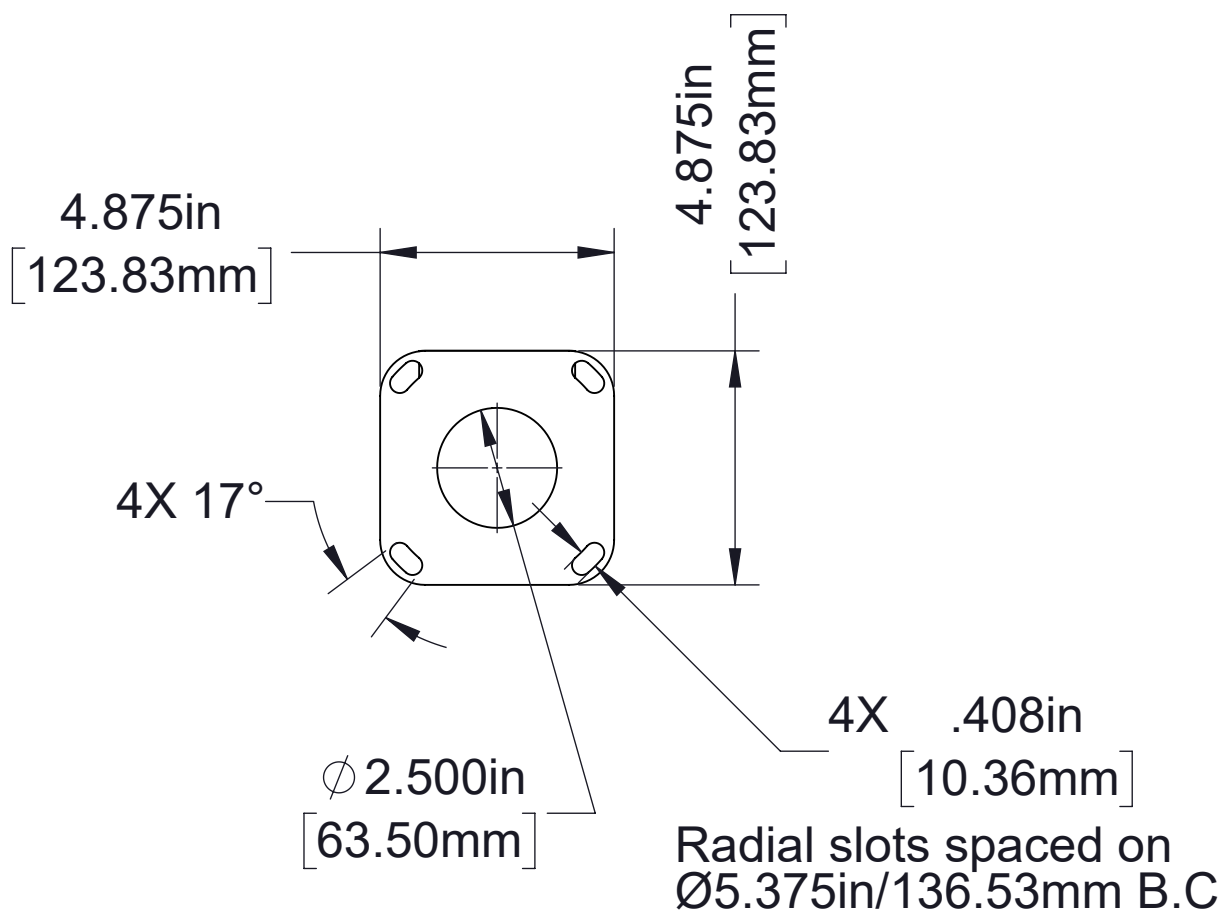
Use gasket 51218

Detail 1
4-Bolt, 2-1/2 in Flange
(With thru holes)



Use gasket 51218

Detail 2
4-Bolt, 2-1/2 in Flange
(With thru holes)



Detail 3
4-Bolt, 2-1/2 in Akron/Elkhart Flange
(With thru holes)