

KENFLEX RESILIENT HINGED CHECK VALVE 3"-24" AWWA C508 Full-Flow Flexible Swing Flap Design

INSTALLATION & OPERATION MANUAL

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1201 Vanderbilt Road | Birmingham, AL 35234 866.924.8674 • mcwanepi.com sales@mcwanepi.com MPIK-4001-4 12/23

INTRODUCTION

Kenflex resilient hinged check valves have been engineered to provide trouble-free operation for many years. This manual will provide you with the information needed to properly install, operate, and maintain the valve and to provide long service life. The valve is opened by the flow in one direction and closes automatically to prevent flow in the reverse direction.

An optional backflow actuator can be added for manual back flush operation commonly used for priming pumps, flushing lines and system testing.

Optional mechanical disc position indicators are available for instant visual verification of the disc position. This allows for limit switches and other monitoring devices to be installed.

The Kenflex valve is a swing check type utilizing an angled seat and fully encapsulated, EPDM resilient disc and is capable of handling a variety of fluids including flows containing suspended solids. Kenflex resilient hinged check valves are rated for 250 PSI working pressure and have ANSI 125# flange connections.

RECEIVING & STORAGE

Inspect valves upon receipt to ensure correct material, quantity, and any optional equipment has been received. Also inspect all received equipment for any damage which may have occurred during shipment. Contact the McWane Plant & Industrial sales team to report any issues with received material.

Unload all valves safely to protect both the materials and workers. Do not allow lifting lugs, slings, or chains to come into contact with the valve disc seating surface area. Use eyebolts or rods through the flange holes on large valves.

Whenever possible, check valves should be stored inside. However, when this is not possible or feasible, some outdoor protection must be provided. The valves must be stored in such a manner to protect them from weather, blowing dirt and debris. A tarp covering will minimize exterior coating damage from these elements and reduce fading or chalking due to exposure to the sun. The valves should also be placed in a location where they will not be damaged by collision from vehicles, lift trucks or falling items. Valves should be stored so that water does not stand in the body. In cold climates, if water is allowed to freeze in the valve, severe damage to the components could result. The valves are shipped in the closed position and should remain in the closed position during long term storage. Any packaging removed for inspection of the valves should be replaced prior to placing the valves into long term storage.

INSTALLATION

When installing the valve verify the direction of flow. The arrow on the bonnet indicates the direction of flow of the line media. Kenflex check valves are designed for flow in either a horizontal or vertical (flow upward) environment. When using the valve in horizontal pipelines make certain to keep the bonnet in a horizontal plane to ensure shutoff.

For longest service life, it is suggested that the valve be installed five to ten pipe diameters from any turbulence producing devices such as pumps, etc. Kenflex check valves have ANSI B16.1 flat-faced 125# flanges. Standard ANSI B16.21 flanges and gaskets should be used to install the valve in the pipeline.

NOTE: It is recommended that valves be installed into piping system in accordance with AWWA M-11 to prevent any undue piping stress, deflection or bending that may affect the performance of the valve.

1. Carefully place valves into position avoiding contact or impact with other equipment or physical structures.

2. Install valves in accordance with the general arrangement drawings furnished for the order.

3. Inspect and confirm there is no foreign material within the valve prior to installation. Foreign material can damage the valve disc and seat when valve is operated.

4. Prepare pipe ends and install valves in accordance with the pipe manufacturer's instructions. Do not deflect pipe or valve joints.

5. Install the valve to minimize bending of valve connection with pipe loading. Do not use the valve to pull pipe into alignment.

MAINTENANCE

The only moving component of the Kenflex check valve is the flapper disc. Should the flapper disc be damaged due to service conditions it can be easily removed and replaced. The valve requires no scheduled maintenance or lubrication.

INSPECTION OF THE VALVE:

1. Line should be shut down and drained, if possible. If not, safeguards should be taken to protect maintenance personnel.

2. The bottom threaded pipe plug can be removed to drain remaining media in the valve if required.

3. Remove all fasteners on the bonnet.

4. Bonnet can now be lifted, paying special attention not to damage the cover seal O-ring which can be reused.

5. The flapper disc can now be removed from the valve if required.

6. Upon completion of inspection/repairs install the flapper disc in the same location.

7. Re-lay the cover seal gasket and return the bonnet to original position, taking care to line up bolt holes.

8. Insert and tighten the bonnet bolts.

9. Return the line to service and inspect all connections for leakage.

TROUBLESHOOTING

PROBLEM

SUGGESTED SOLUTIONS

Leakage from bottom of valve	Remove line pressure and remove plug or jack screw device. Replace any seals and reattach. Re-pressure line and recheck for leakage.
Leakage at cover for valve flanges	Tighten bolts, replace cover seals and flange gaskets.
Valve leakage when closed	Inspect flapper disc for damage and replace if needed. Contact MPI sales team for information on spare parts.
Valve does not open	Check for obstructions in valve or pipeline. Operating pressure may be less than disc cracking pressure; contact MPI sales team to discuss.

PARTS & SERVICE

Parts and service are available from your local representative or the factory. For availability and pricing of spare parts please contact the MPI sales team:

McWane Plant & Industrial www.mcwanepi.com Phone: 866.924.8674 Email: sales@mcwanepi.com

KENFLEX CHECK VALVE, NO ACCESSORIES SIZES 3"-12" DOMESTIC



E - BOLT CIRCLE DIA. END FLANGE F - NUMBER OF BOLTS REQ'D EACH END FLANGE G - BOLT HOLE DIAMETER FOR END FLANGE END FLANGES CONFORM TO ANSI B16.1

PARTS LIST								
PART No.	PART	MATERIAL	ASTM DESIGNATION					
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-1 2					
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-1 2					
3	Flapper	EPDM Flapper , Met. Insert	A536 DI/D-2000 BK 807					
4	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F59 3					
5	0 -Ring	Nutrile (Buna-N)	ASTM D200 0					

	DIMENSIONS								
SIZE	A (APPROX.)	ØB	C	D (NDM)	ØE	F # BOLTS	ØG	H (NDM)	I
3	5.37	4.00	13	1.00	6.00	4	Х	0.31	9.0
4	5.37	4.00	13	1.00	7.50	8	0.75	0.31	9.0
6	7.45	6.00	16	1.06	9.50	8	0.88	0.34	11.0
8	8.77	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5
10	10.20	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0
12	11.61	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0
3" Val	ve (4) 0.62UNC-	11-2B Ta	ipped l	Holes (G) St	raddle (C.L. similar to	other	sizes.	

KEN-FLEX CHECK VALVE NO ACCESSORIES 3"-12" GLOBALLY SOURCED



3"VALVE (4)0.625UNC-11-2B TAPPED HOLES (G)STRADDLE C.L. SIMILAR TO OTHER SIZES

PARTS LIST									
PART No.	PART	MATERIAL	ASTM DESIGNATION						
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12						
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12						
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807						
4	0-Ring	Nutrile (Buna-N)	ASTM D2000						
5	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593						

	DIMENSIONS									
SIZE	A (APPROX.)	ØВ	С	D (NDM)	ØE	F	ØG	H (NDM)	I	
3	6.78	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	
4	6.78	4.00	13	1.00	7.50	8	0.75	0.31	9.0	
6	9.29	6.00	16	1.06	9.50	8	0.88	0.34	11.0	
8	10.84	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	
10	13.23	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	
12	15.29	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	

KEN-FLEX CHECK VALVE WITH JACK SCREW SIZES 3"-12" DOMESTIC



* ADD 4" FOR REMOVAL OF JACK SCREW SPINDLES CAN BE ROTATED TO ACCOMODATE



E - BOLT CIRCLE DIA. END FLANGE F - NUMBER DF BOLTS RED'D EACH END FLANGE G - BOLT HOLE DIAMETER FOR END FLANGE END FLANGES CONFORM TO ANSI B16.1

3" VALVE (4) 0.625UNC-11-2B TAPPED HOLES (G)STRADDLE C.L. SIMILAR TO OTHER SIZES

PARTS LIST								
PART No.	PART	MATERIAL	ASTM DESIGNATION					
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12					
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12					
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807					
4	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593					
5	0-Ring	Nutrile (Buna-N)	ASTM D2000					
6	Optional Jack Screws -See Note 1	Stainless Steel	N/A					

NOTE 1:
Optional Jack Screws
4"->448010P (Stainless Steel)
6"/8"-> 448106P (Stainless Steel)
10"/12"-> 448110P (Stainless Steel)

	DIMENSIONS										
SIZE	A (APPROX.)	ØB	C	D	ØE	F	ØG	Н	I	J	К
				(NDM)				(NDM)		(APPROX.)	(APPROX.)
3	5.37	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	11	15
4	5.37	4.00	13	1.00	7.50	8	0.75	0.31	9.0	11	15
6	7.45	6.00	16	1.06	9.50	8	0.88	0.34	11.0	17	21
8	8.77	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	20	24
10	10.20	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	23	28
12	11.61	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	24	29

KEN-FLEX CHECK VALVE WITH JACK SCREW SIZES 3"-12" GLOBALLY SOURCED



NOTE 1: Optional Jack Screws 4"->448010P (Stainless Steel) 6"/8"-> 448106P (Stainless Steel) 10"/12"-> 448110P (Stainless Steel)

	PAF		
PART No.	PART	ASTM DESIGNATION	
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807
4	0-Ring	O-Ring Nutrile (Buna-N)	
5	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593
6	Optional Jack Screws -See Note 1	Stainless Steel	N/A

	DIMENSIONS										
SIZE	A (APPROX.)	ØВ	С	D (NDM)	ØE	F	ØG	H (NDM)	I	K (APPROX.)	Q (APPROX.)
3	6.78	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	15	11
4	6.78	4.00	13	1.00	7.50	8	0.75	0.31	9.0	15	11
6	9.29	6.00	16	1.06	9.50	8	0.88	0.34	11.0	21	17
8	10.84	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	24	20
10	13.23	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	28	23
12	15.29	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	29	24

KENFLEX CHECK VALVE WITH POSITION INDICATOR SIZES 3"-12" DOMESTIC





E - BOLT CIRCLE DIA. END FLANGE F - NUMBER DF BOLTS REG'D EACH END FLANGE G - BOLT HOLE DIAMETER FOR END FLANGE END FLANGES CONFORM TO ANSI B16.1

3" VALVE (4) 0.625UNC-11-2B TAPPED HOLES (G)STRADDLE C.L. SIMILAR TO OTHER SIZES

PARTS LIST									
PART No.	PART	MATERIAL	ASTM DESIGNATION						
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12						
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12						
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807						
4	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593						
5	O-Ring	Nutrile (Buna-N)	ASTM D2000						
6	Position Indicator Subassembly	Stainless Steel Ext. Components							

	DIMENSIONS												
SIZE	A (APPROX.)	ØB	C	D	ØE	F	ØG	Н	I	J			
				(NDM)				(NDM)		(APPROX.)			
3	5.37	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	12.21			
4	5.37	4.00	13	1.00	7.50	8	0.75	0.31	9.0	12.21			
6	7.45	6.00	16	1.06	9.50	8	0.88	0.34	11.0	14.28			
8	8.77	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	15.61			
10	10.20	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	17.04			
12	11.61	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	18.45			

KEN-FLEX CHECK VALVE WITH POSITION INDICATOR SIZES 3"-12" GLOBALLY SOURCED



3''VALVE (4)0.625UNC-11-2B TAPPED HOLES (G)STRADDLE C.L. SIMILAR TO OTHER SIZES

Optional Position Indicator

	PAR	TS LIST			
PART No.	PART	MATERIAL	ASTM DESIGNATION		
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12		
2	Cover Plate	Ductile Iron, Coated ASTM A536 GR 65-45-			
3	Flapper	EPDM Flapper, Met, Insert	A536 DI/D-2000 BK 807		
4	0-Ring	Nutrile (Buna-N)	ASTM D2000		
5	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593		
6	Position Indicator Subassembly	Stainless Steel Ext. Components			

	DIMENSIONS													
SIZE	A (APPROX.)	ØВ	С	D (NDM)	ØE	F	ØG	H (NDM)	l	J (APPROX.)				
3	6.78	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	12.21				
4	6.78	4.00	13	1.00	7.50	8	0.75	0.31	9.0	12.21				
6	9.29	6.00	16	1.06	9.50	8	0.88	0.34	11.0	14.28				
8	10.84	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	15.61				
10	13.23	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	17.04				
12	15.29	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	18.45				

KEN-FLEX CHECK VALVE WITH POSITION INDICATOR AND JACK SCREW SIZES 3"-12" DOMESTIC



	P	ARTS LIST			
PART No.	PART	MATERIAL	ASTM DESIGNATION		
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12		
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12		
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807		
4	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593		
5	0-Ring	Nutrile (Buna-N)	ASTM D2000		
6	Optional Jack Screws -See Note 1	Stainless Steel	N/A		
7	Position Indicator Subassembly	Stainless Steel Ext. Components			

	DIMENSIONS												
SIZE	A (APPROX.)	ØB	C	D	ØE	F	ØG	Н	I	J	K	L	
				(NDM)				(NDM)		(APPROX.)			
3	5.37	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	12.21	11	15	
4	5.37	4.00	13	1.00	7.50	8	0.75	0.31	9.0	12.21	11	15	
6	7.45	6.00	16	1.06	9.50	8	0.88	0.34	11.0	14.28	17	21	
8	8.77	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	15.61	20	24	
10	10.20	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	17.04	23	28	
12	11.61	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	18.45	24	29	

NOTE 1: Optional Jack Screws 4"->448010P (Stainless Steel) 6"/8"-> 448106P (Stainless Steel) 10"/12"-> 448110P (Stainless Steel)

> **NOTE 2:** Optional Position Indicator

KEN-FLEX CHECK VALVE WITH POSITION INDICATOR AND JACK SCREW

3"-12" GLOBALLY SOURCED



NOTE 1: **Optional Jack Screws** 4"->448010P (Stainless Steel) 6"/8"-> 448106P (Stainless Steel) 10"/12"-> 448110P (Stainless Steel)

> NOTE 2: **Optional Position Indicator**

	PAR	TS LIST			
PART No.	PART	MATERIAL	ASTM DESIGNATION		
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12		
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12		
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807		
4	0-Ring	Nutrile (Buna-N)	ASTM D2000		
5	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593		
6	Optional Jack Screws -See Note 1	Stainless Steel	N/A		
7	Position Indicator Subassembly	Stainless Steel Ext. Components			

	DIMENSIONS												
SIZE	A (APPROX.)	ØВ	С	D (NDM)	ØE	F	ØG	H (NDM)	I	J (APPROX.)	K (APPROX.)	Q (APPROX.)	
3	6.78	4.00	13	1.00	6.00	4	TAP SEE ABOVE	0.31	9.0	12.21	15	11	
4	6.78	4.00	13	1.00	7.50	8	0.75	0.31	9.0	12.21	15	11	
6	9.29	6.00	16	1.06	9.50	8	0.88	0.34	11.0	14.28	21	17	
8	10.84	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	15.61	24	20	
10	13.23	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	17.04	28	23	
12	15.29	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	18.45	29	24	

KEN-FLEX CHECK VALVE WITH SPRINGS 16" & 24" DOMESTIC ONLY

ITEM NO.	DRAWING	DESCRIPTION	MATERIAL	QTY.
1	81783	BODY	DUCTILE IRON	1
2	32511	COVER	DUCTILE IRON	1
3	54298	FLAPPER ASSEMBLY	EPDM RUBBER	1
3.1	32339	FLAPPER DISC	DUCTILE IRON	1
3.2	54301	KENFLEX FLAPPER PIN	AISI 1020	1
4	32475	Spring	302 STAINLESS	5
5	32480	Spring bracket - 16"	STAINLESS STEEL	1
6	54299	FLAPPER SPRING PIN	304 STAINLESS	1
7	54300	COVER SPRING PIN	AISI 304	1
8	32629	SPRING SPACER (TOP)	NYLON	10
9	32630	SPRING SPACER (BOTTOM)	NYLON	10
10	-	COTTER PIN	STAINLESS STEEL	2
11	-	HHCS - 1/2" - 13 X 5/8" LG.	STAINLESS STEEL	2
12		HHCS - 1" - 8 X 2 - 3/4" LG.	304SS	8
13	-	PIPE PLUG - 1" NPT	STEEL	1
14	-	O-RING, SIZE -471		1
15	OMIT	-	-	-
16		WASHER - 1"	STAINLESS STEEL	8

AWWA - TESTING DETAILS									
AWWA C508	250 PSI								
DESCRIPTION	TEST PRESSURE								
SHELL TEST	500 PSI								
SEAT TEST	250 PSI								



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[28.81] _

SECTION A-A

-6)







KEN-FLEX CHECK VALVE WITH POSITION INDICATOR AND SWITCH

SIZES 3"-12" DOMESTIC





INSTALLATION NOTE S

- 1. Preferred KV installs switch, though with caution, customer is able to perform at their own risk.
- Requires electrical service to switch (which oscilates flexible wiring / conduit / strain relief to meet all local code.
- **3.** For further detail, drawing 55014 may be referred to.

PARTS LISTPART No.PARTMATERIALASTM DESIGNATION1Body (FLG x FLG)Ductile Iron, CoatedASTM A536 GR 65-45-122Cover PlateDuctile Iron, CoatedASTM A536 GR 65-45-123FlapperEPDM Flapper, Met. InsertA536 DI/D-2000 BK 8074Cover Bolts & NutsStainless SteelSS 18-8 F5935O-RingNitrile (Buna-N)ASTM D20006Position IndicatorStainless SteelSubassembly - p/n 448100PExt. Components7A-B Rockwell 802T-BA Push SwitchFlex Cord Required8Adapter PlateStainless Steel 304ASTM 2769Upper U-Bolt - Rubber CushionedMcMasterr-Carr 30555T44ASTM A19310Trip AngleStainless Steel 304 1 x 1 x 3/16ASTM 27611Lower U-Bolt - Rubber CushionedMcMasterr-Carr 30555T43ASTM A19312Nuts - Add one to304 SS (Some mayASTM A193							
PART No.	PART	MATERIAL	ASTM DESIGNATION				
1	Body (FLG x FLG)	Ductile Iron, Coated	ASTM A536 GR 65-45-12				
2	Cover Plate	Ductile Iron, Coated	ASTM A536 GR 65-45-12				
3	Flapper	EPDM Flapper, Met. Insert	A536 DI/D-2000 BK 807				
4	Cover Bolts & Nuts	Stainless Steel	SS 18-8 F593				
5	0-Ring	Nitrile (Buna-N)	ASTM D2000				
6	Position Indicator	Stainless Steel					
	Subassembly - p/n 448100P	Ext. Components					
7	A-B Rockwell 802T-BA	Flex Cord Required					
	Push Switch						
8	Adapter Plate	Stainless Steel 304	ASTM 276				
9	Upper U-Bolt -	McMasterr-Carr 30555T44	ASTM A193				
	Rubber Cushioned						
10	Trip Angle	Stainless Steel 304 1 x 1 x 3/16	ASTM 276				
11	Lower U-Bolt -	McMasterr-Carr 30555T43	ASTM A193				
	Rubber Cushioned						
12	Nuts - Add one to	304 SS (Some may	ASTM A193				
	each side of clamp	come w/ U Bolts)					
13	Washers - 3/8 Diameter	Stainless Steel 304	ASTM A193				

NOTE 1: Optional Position Indicator

					DIM	ENSIO	NS				
SIZE	Α	ØB	C	D	ØE	F	ØG	н	I	J	К
	(APPROX.)			(NDM)				(NDM)		(APPROX.)	(APPROX.)
3	5.37	4.00	13	1.00	6.00	4	*1*	0.31	9.0	12.21	14.21
4	5.37	4.00	13	1.00	7.50	8	0.75	0.31	9.0	12.21	14.21
6	7.45	6.00	16	1.06	9.50	8	0.88	0.34	11.0	14.28	16.28
8	8.77	8.00	19.5	1.19	11.75	8	0.88	0.34	13.5	15.61	17.61
10	10.20	10.00	24.5	1.25	14.25	12	1.00	0.38	16.0	17.04	19.04
12	11.61	12.00	27.5	1.28	17.00	12	1.00	0.41	19.0	18.45	20.45
		*1	* HOLE	ES ARE TA	PPED 0.	625UN	IC-11-2	B, STRAD	DLE C.L	•	-

E - BOLT CIRCLE DIA. END FLANGE F - NUMBER OF BOLTS REQ'D EACH END FLANGE G - BOLT HOLE DIAMETER FOR END FLANGE END FLANGES CONFORM TO ANSI B16.1