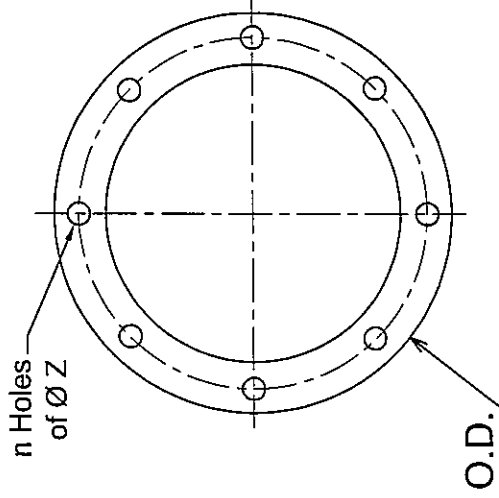
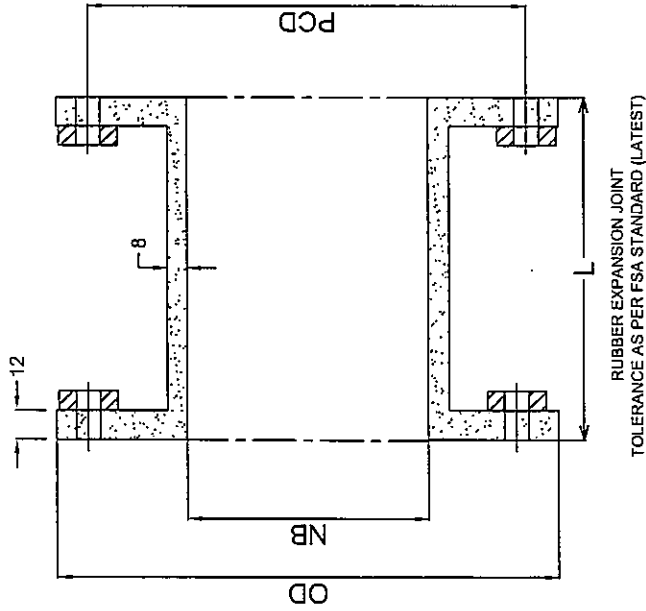


 coperion confidence through partnership	Cover Sheet	Vendor Document No.			
	BRAHMAPUTRA CRACKER AND POLYMER LTD.	OSI2010002.0.408.0211.4.00			
	Page	1+5	Rev.	0	

GA for Non Metallic Flexible

REVIEW CODE	1	2	3
समीक्षा कोड	R	I	
Signature & Name			
हस्ताक्षर एवं नाम			
Date/दिनांक	17/02/11		
P. No.	6907/		
पी.नं.	6907/		

03					
02					
01					
00	First Issue	KANWAL	NA	NA	21-Jan-11
Rev.	Description	Prepared	Checked	Approved	Date



SPLIT RETAINING RING (SRR) - 2Nos.
(SPLIT IN TWO SEGMENTS)

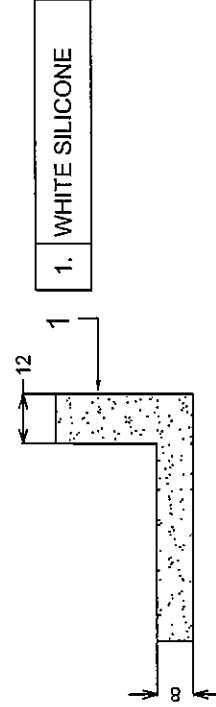
SECTION AT A-A

KANWAL FLEXIBLE CONNECTOR STYLE - K2

TM

Easyflex

ALL DIMENSIONS ARE IN M.M
TOLERANCE $\pm$ as per FSA Std USA



CROSS SECTION

DESIGN DATA & DIMENSIONAL DETAIL ARE MENTIONED
IN SHEET NO.-2

CLIENT DETAILS:

COMPANY NAME: M/s COPERION IDEAL PVT. LTD. (PROJECT: BCPL-PE)
KIND ATTN: MR. UMESH GULATI

TITLE: KANWAL'S (STYLE K-2)
White Silicone Rubber Flexible Connector

DRN NO.	KIC/BCPL-PE/DR-01/11	OWNER:	KANWAL INDUSTRIAL CORPORATION
DRN BY	SIMRAN		B - 168, PHASE - II,
APRD BY	DS	CHKD BY	DS
DATE	17/01/11	REV:	00



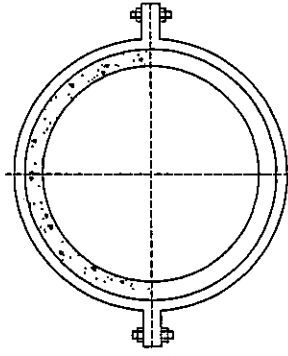
NOIDA -201305, U.P. INDIA

DESIGN DATA

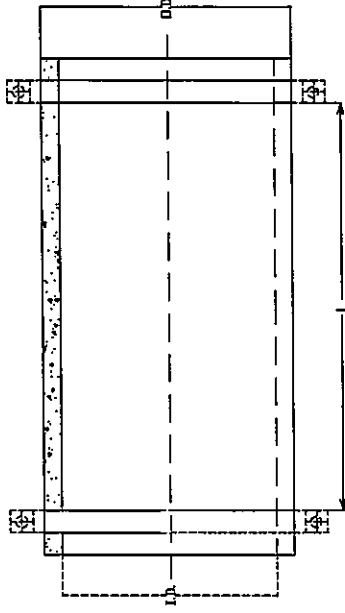
LOCATION	Outlet of Rerun Silo 117-TI-855	
DESIGN CODE	FSA Std NMEJ USA	
EXPANSION JOINT DRG. NUMBER	KIC/DR-01	
TYPE	SINGLE AXIAL	
SIZE: (NB)	2"	
QUANTITY	Nos.	02
DESIGN TEMPERATURE	100°C	
DESIGN PRESSURE	kg/cm ² (g)	0.05
TEST PRESSURE	kg/cm ² (g)	0.075
AXIAL MOVEMENT	(mm)	±10
LATERAL MOVEMENT	(mm)	±10
RATED DESIGN CYCLE LIFE	CYCLES	ABOVE 10,000
BELLOW DESIGN		
I.D. : (mm)	2"	
MANUFACTURED FREE LENGTH: (mm) L	140	
INSTALLED LENGTH: (mm)	140	

RUBBER FLANGE DETAILS	FLANGE O.D. (mm)	152
	FLANGE P.C.D. (mm)	121
	FLANGE THK. (mm)	16
	NO. OF HOLES (Nos.)	4
	HOLE DIA. Ø (mm)	19

3	COMPANION FLANGE	Coperion Scope	2
2	SRR (ZINC GALVANISED)	IS 2062 Gr II	2
1	RUBBER EXPANSION JOINT	WHITE SILICONE	1
ITEM NO	DESCRIPTION	MATERIAL	QTY



SECTION AT A-A



KANWAL RUBBER SLEEVE CONNECTOR (STYLE K-5)

DESIGN DATA

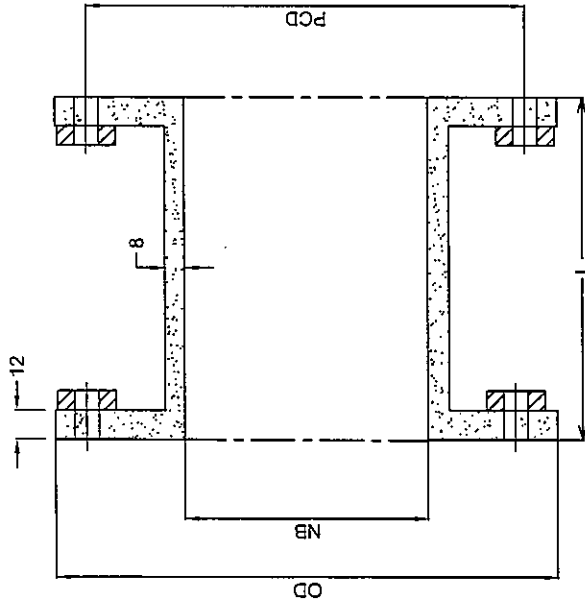
Location	Vent Line of Rotary Valve 117-YF-850	Gravity Line Bellow 117-TI-880A-D& 117-TI-881	Vent Line of Rotary Valve 117-YF-880 A-D & 117-TI-881 to Vent Pot	Outlet of Bagging Silo 117-TI-890A/B
Tag No.	EJ/BCPL/001	EJ/BCPL/002	EJ/BCPL/003	EJ/BCPL/004
Type	Non-Metallic	Non-Metallic	Non-Metallic	Non-Metallic
Design Code	FSA Std. NMEJ USA	FSA Std. NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA
ID (mm)	90	356	115	274
Quantity	01	05	05	02
Design Temp.	100°C	100°C	100°C	100°C
Design Pressure	0.5 kg/cm ² (g)	0.5 kg/cm ² (g)	0.5 kg/cm ² (g)	0.5 kg/cm ² (g)
Axial Movement	±10 mm	±25 mm	±15 mm	±20 mm
Lateral Movement	0	±2 mm	0	±5 mm
Clamp Material	IS 2062 Gr B	IS 2062 Gr B	IS 2062 Gr B	IS 2062 Gr B
Bellow Material	White Silicone	White Silicone	White Silicone	White Silicone
Thickness (mm) T	6±2	6±2	6±2	6±2
OD (mm)	102±2	368±2	127±2	286±2
OAL (mm)	140±2	140±2	140±2	140±2

Easyflex

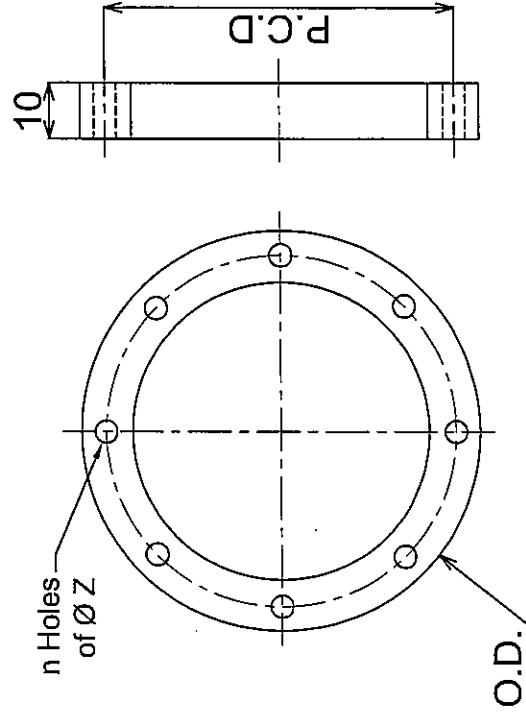
ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std USA

CUSTOMER	M/S COPERION IDEAL PVT. LTD. (PROJECT: BPL-PE)
COMPANY NAME	MR. UMESH GILLATI
IND. ATTN.:	
TITLE	KANWAL'S (STYLE K-5) White Silicone Rubber Sleeve with Clamp
DRN NO.	KIC/CIP/DR-10-11
OWNER	KANWAL INDUSTRIAL CORPORATION
DRN BY	SIRHAN
APRD BY	DS
CHKD BY	DS
DATE	12/01/11
REV	01

B-168, PHASE - II,
NOIDA-201305, U.P., INDIA



RUBBER EXPANSION JOINT
TOLERANCE AS PER FSA STANDARD (LATEST)



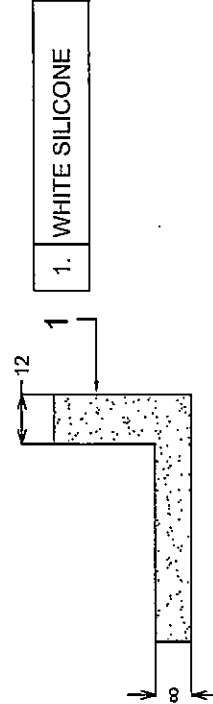
SPLIT RETAINING RING (SRR) - 2Nos.
(SPLIT IN TWO SEGMENTS)

SECTION AT A-A

KANWAL FLEXIBLE CONNECTOR STYLE - K2



ALL DIMENSIONS ARE IN M.M
TOLERANCE $\pm$ as per FSA Std.USA



CROSS SECTION

CLIENT DETAILS:			
COMPANY NAME:		M/s COPERION IDEAL PVT. LTD. (PROJECT: 8CPL-PE)	
KIND ATTN.:		MR. UMESH GULATI	
TITLE : KANWAL'S (STYLE K-2) White Silicone Rubber Flexible Connector			
DRN NO.	KIC/BCPL-PE/DR-10-11	OWNER :	
DRN BY	SIMRAN	KANWAL INDUSTRIAL CORPORATION	
APRD BY	DPS	CHKD BY	DPS
DATE	12/01/11	REV.	01

DESIGN DATA

LOCATION	On Return Silo 117-TI-855	Conveying on Return Silo 117-TI-855	On Blending/Recycle Silo 117-TI-880A & 117-TI-881	On Blending/Recycle Silo 117-TI-880A & 117-TI-881
DESIGN CODE	FSA Std NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA
EXPANSION JOINT DRG. NUMBER	KIC/DR-01	KIC/DR-02	KIC/DR-03	KIC/DR-04
TYPE	SINGLE AXIAL	SINGLE AXIAL	SINGLE AXIAL	SINGLE AXIAL
SIZE: (NB)	14"	14"	14"	14"
QUANTITY	01	01	05	05
DESIGN TEMPERATURE	100°C	100°C	100°C	100°C
DESIGN PRESSURE	kg/cm ² (g)	0.005	0.005	0.005
TEST PRESSURE	kg/cm ² (g)	0.75	0.75	0.75
AXIAL MOVEMENT	(mm)	±20	±20	±20
LATERAL MOVEMENT	(mm)	±30	±30	±30
RATED DESIGN CYCLE LIFE	ABOVE 10,000	ABOVE 10,000	ABOVE 10,000	ABOVE 10,000

BELOW DESIGN

I.D.: (mm)	14"	14"	14"	14"
MANUFACTURED FREE LENGTH: (mm) (L)	300	300	300	300
INSTALLED LENGTH: (mm)	300	300	300	300

RUBBER FLANGE DETAILS

FLANGE O.D. (mm)	533	533	533	533
FLANGE P.C.D. (mm)	476	476	476	476
FLANGE THK. (mm)	12	12	12	12
NO. OF HOLES (Nos.)	12	12	12	12
HOLE DIA. Ø (mm)	28	28	28	28

3	COMPANION FLANGE	Coperion Scope	2	Coperion Scope	2	Coperion Scope	2
2	SRR (ZINC GALVANISED)	IS 2062 Gr II	2	IS 2062 Gr II	2	IS 2062 Gr II	2
1	RUBBER EXPANSION JOINT	WHITE SILICONE	1	WHITE SILICONE	1	WHITE SILICONE	1
ITEM NO	DESCRIPTION	SIZE	QTY	SIZE	QTY	SIZE	QTY

TM

Easyflex

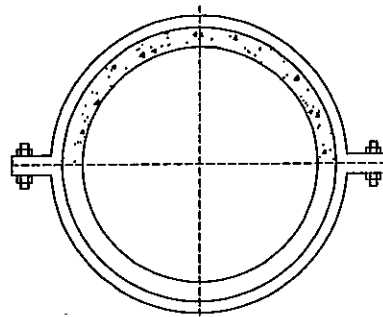
ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std.USA

GA DRAWING OF NON METALLIC FLEXIBLES

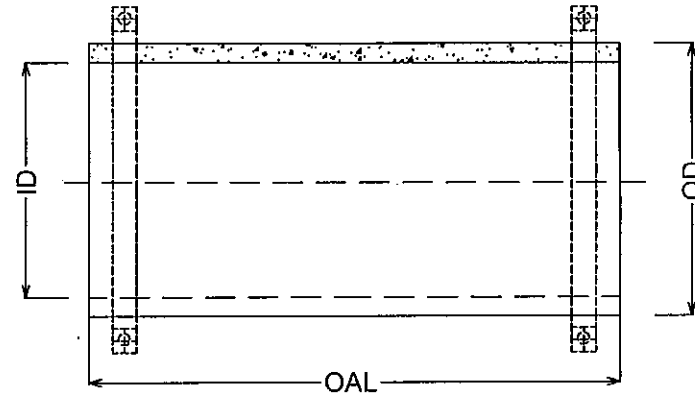
PROJECT	BPCP-60 KTA PP Plant	System	118-LZ-350 / 118-LZ-700
JOB NO.	6907	Service	Expansion Joint
CLIENT	BCPL	Quantity	As per Attachment
LOCATION	Lepetkata, Assam	TAG NO	As per Attachment

**GA DRAWING OF NON METALLIC FLEXIBLES
ATTACHED : 1 + 7 PAGES**

0	Issued for review	28.01.2011	Kanwal	Kanwal	RL	OSI2010001.0.408.0186.4
Rev	Description	Date	Prepared	Checked by	Issued by	Doc. No.



SECTION AT A-A



KANWAL RUBBER SLEEVE CONNECTOR (STYLE K-5)

DESIGN DATA

Location	At Powder Silo cone purging connection	Above Rotary valve 118-YF-370X	Above Rotary valve 118-YF-710AX/BX/CX/DX	At inlet of vent hopper of rotary valve 118-YF-710 AX/BX/CX/DX	Below Bagging silo 118-TI-750 A/B
Tag No.	NIL	NIL	NIL	118-WS-6105/6106/6205/6206	NIL
Type	Non-Metallic	Non-Metallic	Non-Metallic	Non-Metallic	Non-Metallic
Design Code	FSA Std. NMEJ USA	FSA Std. NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA
ID (mm)	51	76	92	274	359
Quantity	2 No.	1 No.	4 No.	4 No.	2 No.
Design Temp.	65°C	90°C	90°C	90°C	90°C
Design Pressure	3.5 kg/cm ² g	0.5 kg/cm ² g	0.5 kg/cm ² g	0.5 kg/cm ² g	0.5 kg/cm ² g
Axial Movement	±10 mm	±5 mm	±5 mm	±10 mm	±20 mm
Lateral Movement	±10 mm	±10 mm	±10 mm	±10 mm	±30 mm
Clamp Material	SA 240 TP 304	SA 240 TP 304	SA 240 TP 304	SA 240 TP 304	SA 240 TP 304
Bellow Material	White Neoprene	White Neoprene	White Neoprene	White Neoprene	White Neoprene
Thickness (mm)	12±2	6±2	6±2	6±2	6±2
OD (mm)	75±2	88±2	104±2	28±2	371±2
OAL (mm)	100±2	150±2	150±2	200±2	200±2

EasyflexTM

** ALL DIMENSIONS ARE IN M.M
TOLRENCE ±2 as per FSA Std.USA

CLIENT DETAILS:

COMPANY NAME: M/s COPERION IDEAL PVT. LTD.
KIND ATTN.: MR. UMESH GULATI

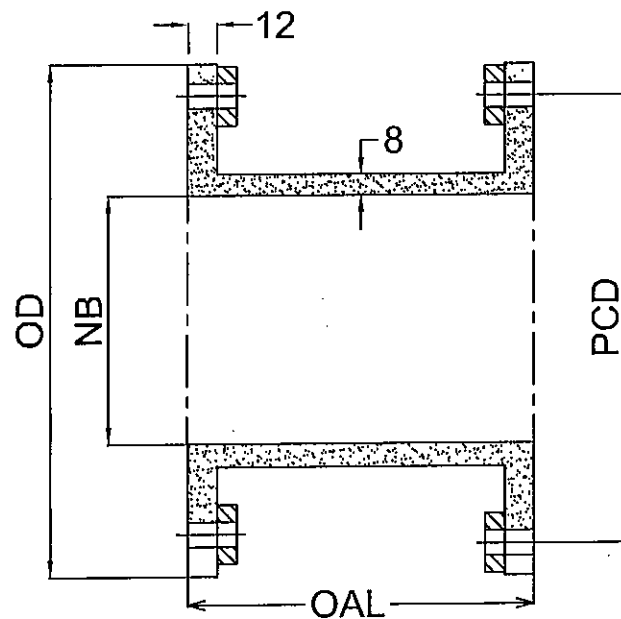
TITLE : KANWAL'S (STYLE K-5)

White Neoprene Rubber Flexible Connector

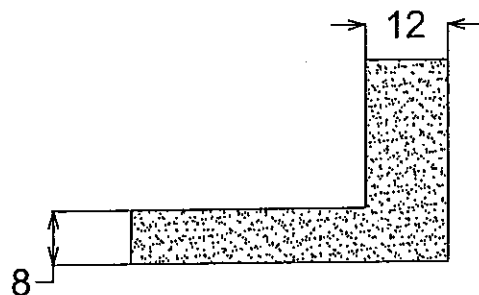
DRN NO. KIC/BCPL/DR-08/10
DRN BY: SIMRAN
APRD BY: DPS CHKD BY: DPS
DATE: 25/10/10 REV: 00

OWNER :
KANWAL INDUSTRIAL CORPORATION
B - 168 , PHASE -II,
NOIDA -201305, U.P. INDIA

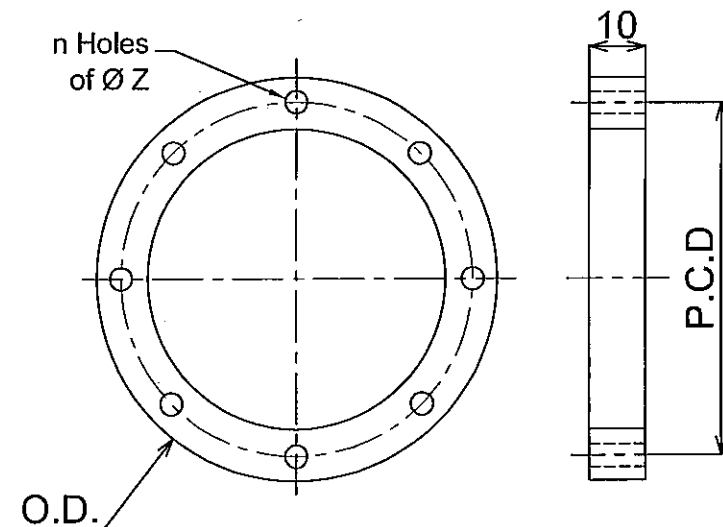




RUBBER EXPANSION JOINT
TOLERANCE AS PER FSA STANDARD (LATEST)



CROSS SECTION



SPLIT RETAINING RING (SRR) - 2Nos.
(SPLIT IN TWO SEGMENTS)

SECTION AT A-A

KANWAL FLEXIBLE CONNECTOR STYLE-K2

CLIENT DETAILS:

COMPANY NAME: M/s COPERION IDEAL PVT. LTD. (PROJECT: BCPL)
KIND ATTN.: MR. UMESH GULATI

TITLE : KANWAL'S (STYLE K-2)
White Neoprene Rubber Flexible Connector

DRN NO.	KIC/BCPL/DR-10-11	OWNER :
DRN BY	SIMRAN	KANWAL INDUSTRIAL CORPORATION B - 168 , PHASE -II , NOIDA -201305, U.P. INDIA
APRD BY	DPS	
DATE	25/10/10	

CHKD BY	DPS	REV: 00
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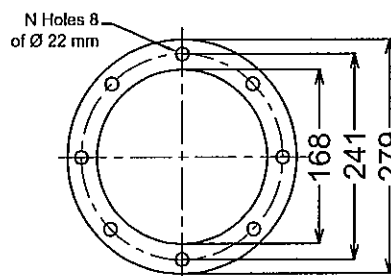
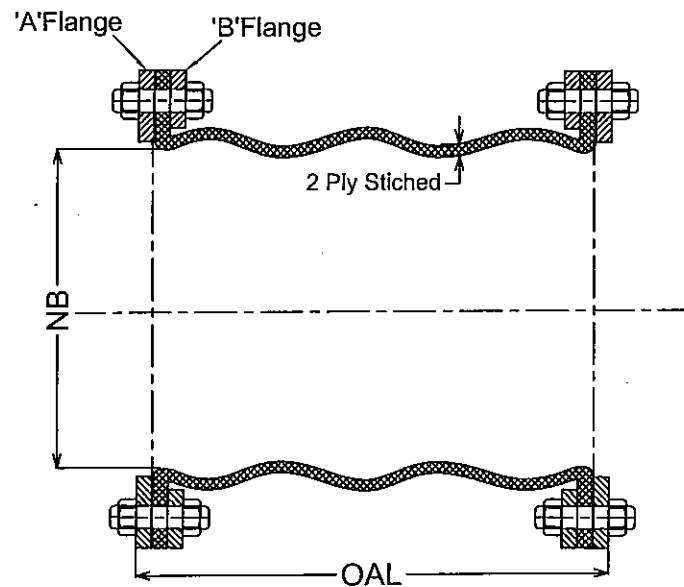


DESIGN DATA

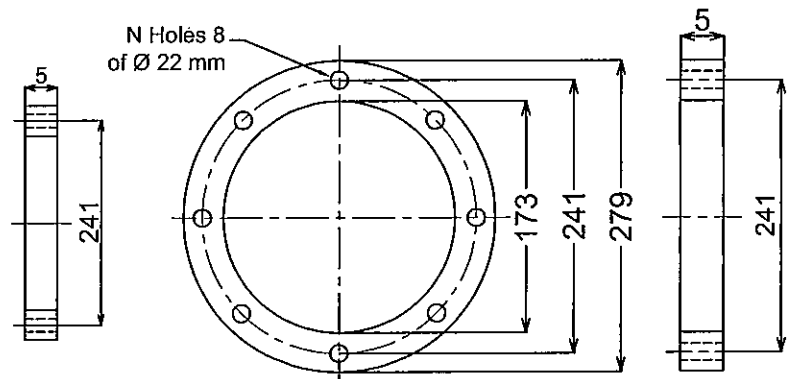
TAG NO.		118 WS 451 0/4511	118-WS-6201/6203 6101/6103	118-WS-6102/6104 /6202/6204
DESIGN CODE		FSA Std NMEJ USA	FSA Std NMEJ USA	FSA Std NMEJ USA
EXPANSION JOINT DRG. NUMBER		KIC/DR-01	KIC/DR-02	KIC/DR-03
TYPE		NON METALLIC	NON METALLIC	NON METALLIC
SIZE: ID(NB)		250	200	300
QUANTITY	Nos.	2	4	4
DESIGN TEMPERATURE	°C	90	90	90
DESIGN PRESSURE	kg/cm ² g	0.5	0.5	0.5
TEST PRESSURE	kg/cm ² g	0.75	0.75	0.75
AXIAL MOVEMENT	(mm)	±20	±20	±20
LATERAL MOVEMENT	(mm)	±30	±30	±30
RATED DESIGN CYCLE LIFE	CYCLES	ABOVE 10,000	ABOVE 10,000	ABOVE 10,000
OVERALL LENGTH: (MM) OAL		250	250	300

FLANGE DETAILS	FLANGE O.D. (mm)	406	337	483
	FLANGE PCD (mm)	362	298	432
	FLANGE THK. (mm)	19	19	19
	NO.OF HOLES (Nos.)	12	8	12
	HOLE DIA. Ø (mm)	25	22	25

3	COMPANION FLANGE	Coperion Scope	2	Coperion Scope	2	Coperion Scope	2
2	SRR (ZINC GALVANISED)	IS 2062 Gr II	2	IS 2062 Gr II	2	IS 2062 Gr II	2
1	RUBBER EXPANSION JOINT	NEOPRENE	1	NEOPRENE	1	NEOPRENE	1
ITEM NO.	DESCRIPTION	SIZE	QTY	SIZE	QTY	SIZE	QTY



RETAINING RING A FLANGE



RETAINING RING B FLANGE

DESIGN DATA

Service	Gravity Line
System	118-LZ-700
Type	Non-Metallic
Design Code	FSA Std. NMEJ USA
ID (mm)	168
Quantity	01
Operating Temp.	60°C
Design Temp.	90°C
Design Pressure	0.5 kg/cm ² (g)
Axial Movement	±10 mm
Lateral Movement	±5 mm
Bellow Material	Silicone Impregnated Glass Fabric
Thickness (mm) T	1.5 x 2Ply
Material Of Flange	IS: 2062 Gr II
OAL (mm)	140±2

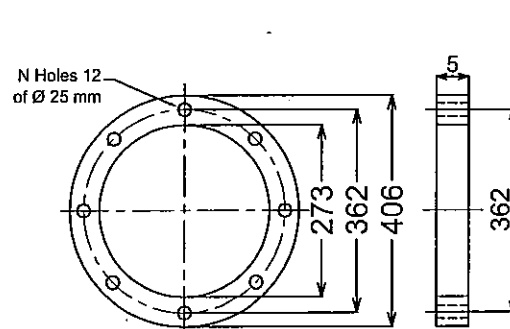
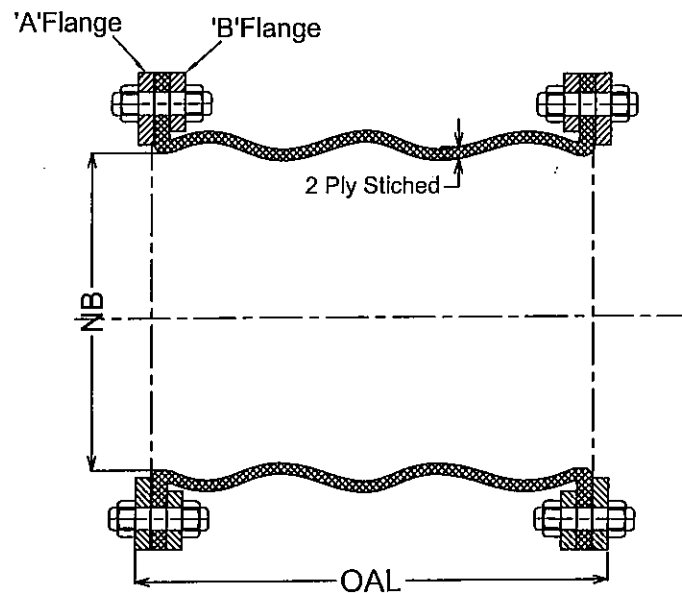
Location : Above pellet feed rotary hopper 118-TH-370X

ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std.USA

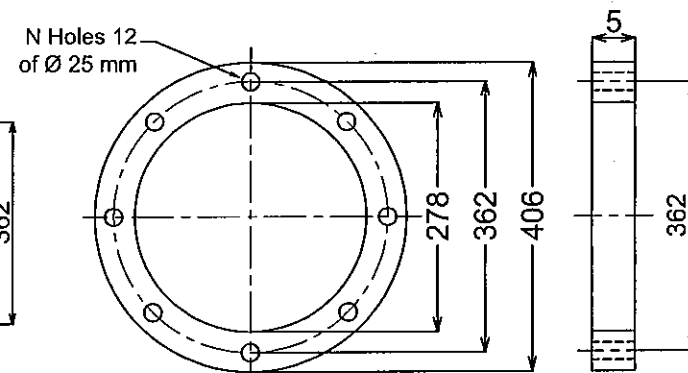
EasyflexTM

CLIENT DETAILS:			
COMPANY NAME:		M/s COPERION IDEAL PVT. LTD. (PROJECT: BCPL, Lepakula)	
KIND ATTN.:		MR. UMESH GULATI	
TITLE :			
Easyflex Brand Silicone Impregnated Glass fabric Bellow			
DRN NO.	KIC/CIPL/DR-01/2011	OWNER :	
DRN BY	SIMRAN	KANWAL INDUSTRIAL CORPORATION	
APRD BY	DS	CHKD BY	DS
DATE	11/01/11	REV:	00
		B - 168 , PHASE -II , NOIDA -201305, U.P. INDIA	
			





RETAINING RING A FLANGE



RETAINING RING B FLANGE

DESIGN DATA

Service	Return Line
System	118-LZ-350
Type	Non-Metallic
Design Code	FSA Std. NMEJ USA
ID (mm)	273
Quantity	02
Operating Temp.	70°C
Design Temp.	90°C
Design Pressure	0.5 kg/cm ² (g)
Axial Movement	±15 mm
Lateral Movement	±20 mm
Bellow Material	Silicone Impregnated Glass Fabric
Thickness (mm) T	1.5 x 2Ply
Material Of Flange	IS: 2062 Gr II
OAL (mm)	250±2

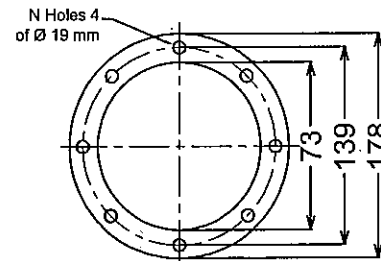
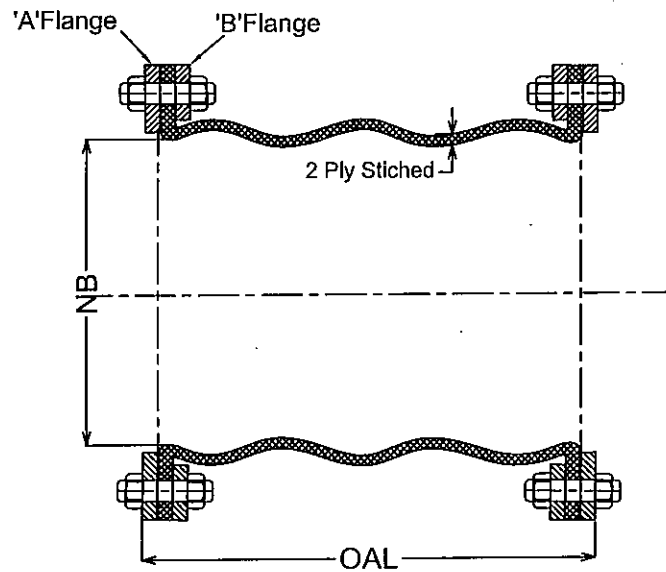
Location : Return line from Bag Filter

ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std.USA

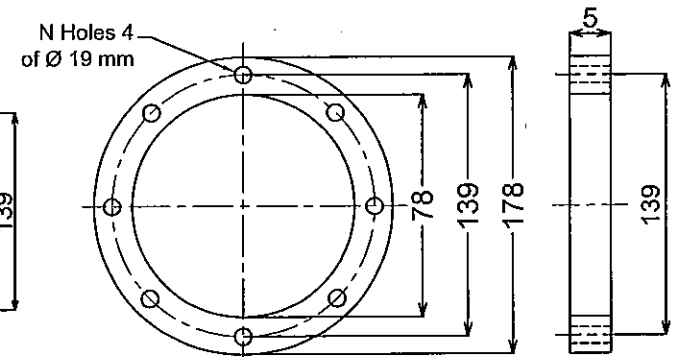
EasyflexTM

CLIENT DETAILS:			
COMPANY NAME:		M/s COPERION IDEAL PVT. LTD.(PROJECT: BCPL Lepelkate)	
KIND ATTN. :		MR. UMESH GULATI	
TITLE :			
Easyflex Brand Silicone Impregnated Glass fabric Bellow			
DRN NO.	KIC/GIPL/DR-01/2011		
DRN BY	SIMRAN		
APRD BY	DS	CHKD BY	DS
DATE	11/01/11	REV:	00
OWNER :			
KANWAL INDUSTRIAL CORPORATION			
B - 168 , PHASE -II ,			
NOIDA -201305, U.P. INDIA			
			





RETAINING RING A FLANGE



RETAINING RING B FLANGE

DESIGN DATA

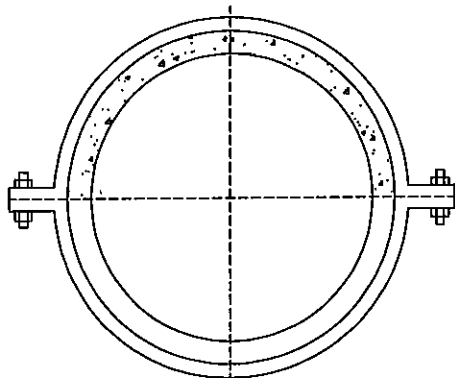
Service	Vent Line
System	118-LZ-350
Type	Non-Metallic
Design Code	FSA Std. NMEJ USA
ID (mm)	73
Quantity	01
Operating Temp.	80°C
Design Temp.	120°C
Design Pressure	0.5 kg/cm ² (g)
Axial Movement	±10 mm
Lateral Movement	±5 mm
Bellow Material	Silicone Impregnated Glass Fabric
Thickness (mm) T	1.5 x 2Ply
Material Of Flange	IS: 2062 Gr II
OAL (mm)	100±2

Location : Vent line of Rotary valve 118-YF-332X

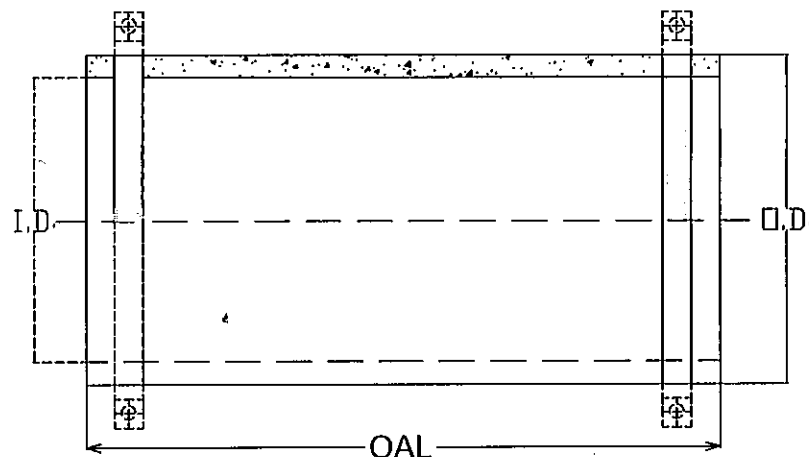
Easyflex™

ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std.USA

CLIENT DETAILS:			
COMPANY NAME:		M/s COPERION IDEAL PVT. LTD. (PROJECT: BCPL)	
KIND ATTN.:		MR. UMESH GULATI	
TITLE :			
Easyflex Brand Silicone Impregnated Glass fabric Bellow			
DRN NO.	KIC/BCPL/DR-2011		OWNER : KANWAL INDUSTRIAL CORPORATION B - 168 , PHASE -II , NOIDA -201305, U.P. INDIA 
DRN BY	SIMRAN		
APRD BY	DS	CHKD BY DS	
DATE	11/01/11	REV: 00	



SECTION AT A-A



KANWAL RUBBER SLEEVE CONNECTOR (STYLE K-5)

DESIGN DATA

Service	Instrument Air Line
System	118-LZ-350
Type	Non-Metallic
Design Code	FSA Std. NMEJ USA
ID (mm)	34
Quantity	01
Design Temp.	50°C
Design Pressure	0.5 kg/cm ² (g)
Axial Movement	±10 mm
Lateral Movement	±10 mm
Clamp Material	Jubilee Clamps
Bellow Material	White Neoprene
Thickness (mm) T	6±2
OD (mm)	46±2
OAL (mm)	100±2

Easyflex

ALL DIMENSIONS ARE IN M.M
TOLERANCE ± as per FSA Std.USA

CLIENT DETAILS:			
COMPANY NAME:		M/s COPERION IDEAL PVT. LTD. (PROJECT: BCPL-PE)	
KIND ATTN.:		MR. UMESH GULATI	
TITLE : KANWAL'S (STYLE K-5) Easyflex Brand Neoprene Rubber Plain end with Jubilee Clamps			
DRN NO.	KIC/BCPL/DR-01/11	OWNER :	
DRN BY	SIMRAN	KANWAL INDUSTRIAL CORPORATION	
APRD BY	DS	CHKD BY	DS
DATE	11/01/11	REV:	01
		B - 168 , PHASE -II , NOIDA -201305, U.P. INDIA	
			