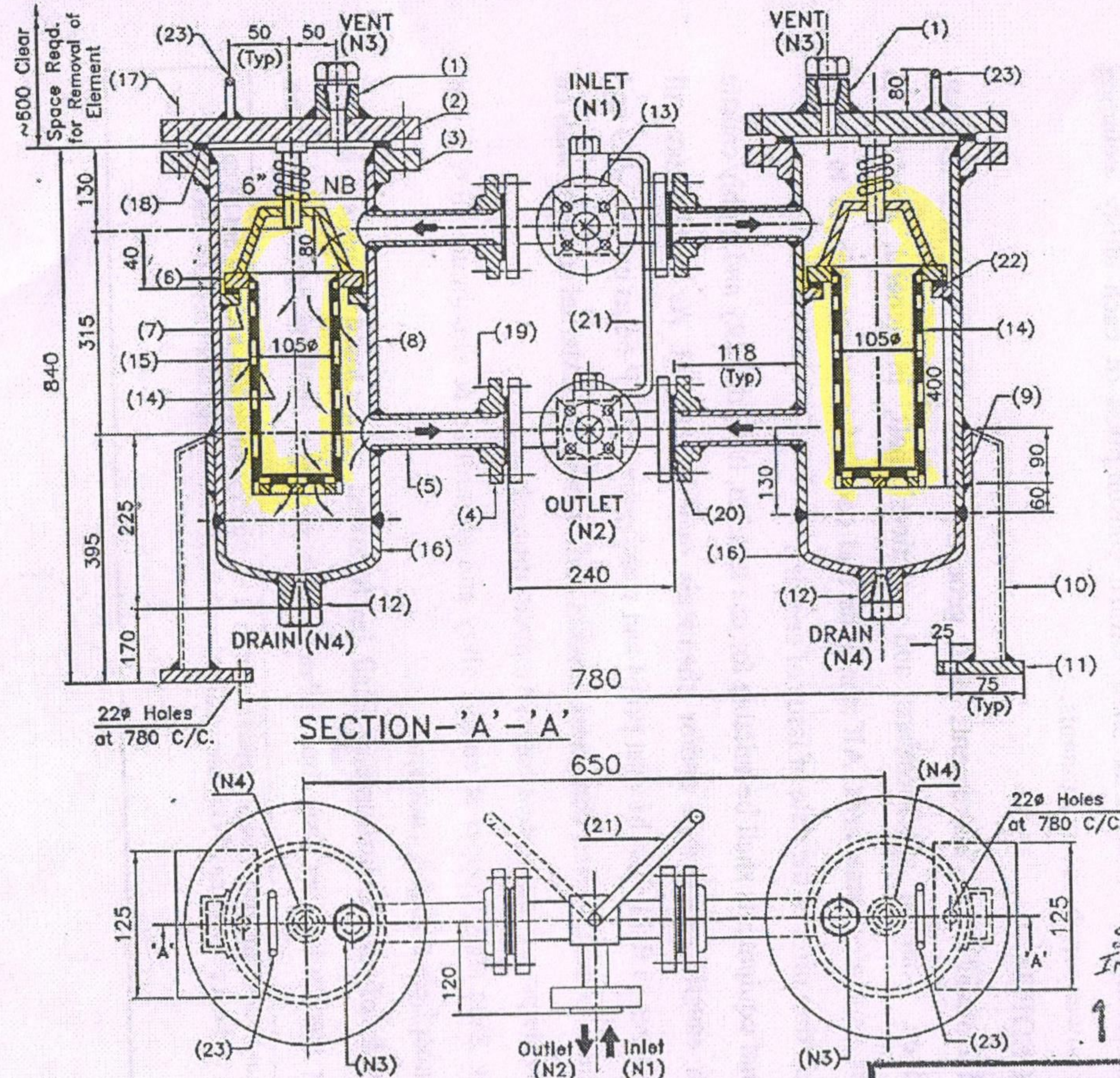


OVERCOAT OF EPOXY PAINT, DFT- 25 MICRONS (MIN) PER COAT.  
FINISH COAT :- ACRYLIC POLYURETHANE (ONE COAT), DFT- 35 MICRONS (MIN)



- NOTE:-**
- 1) All dimensions are in mm Unless otherwise specified.
  - 2) All Flange Facing Shall be Serrated Finish 125 AARH.
  - 3) 3 Way Ball Valve Shall be Flow Chem / Shakti Engg. Make, M.O.C.: SA216 Gr WCB, & S.S.304 Ball, Teflon Seal
  - 4) **PAINT** (A) Outer Surface : Surface Preparation : Mechanical Cleaning  
Primer Coat : Epoxy Primer (Dark Red Shade 50 Micron)  
Final Coat : Polyurethane, Capri Blue Shade (RAL 5019 or RAL-K5)  
30 x 1 Coat = 30 Microns
  - 5) All Weld Shall be D.P. Checked only.
  - 6) Flow Direction Shall be Marked in Body with Suitable Point
  - 7) Basket Shall be Design to Have Sufficient Strenght for Impact of Fluid

**APPROVED**  
HINDUSTAN DORR OLIVER LTD  
MUMBAI. *Patel*

REV	DATE	DESCRIPTION	REV BY	CHD BY
0	12/11/10	ISSUED FOR APPROVAL	HSG	BJP
1	24/11/10	REVISED AS PER YOUR COMMENT & MARKED	HSG	BJP

#### DESIGN DATA

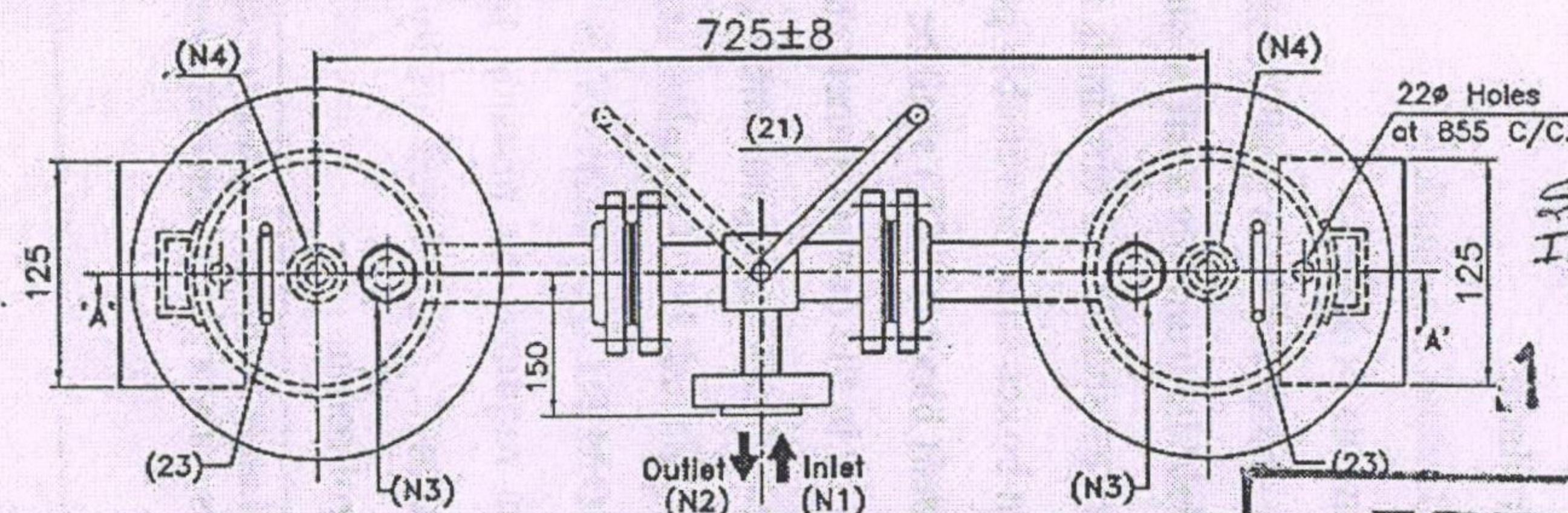
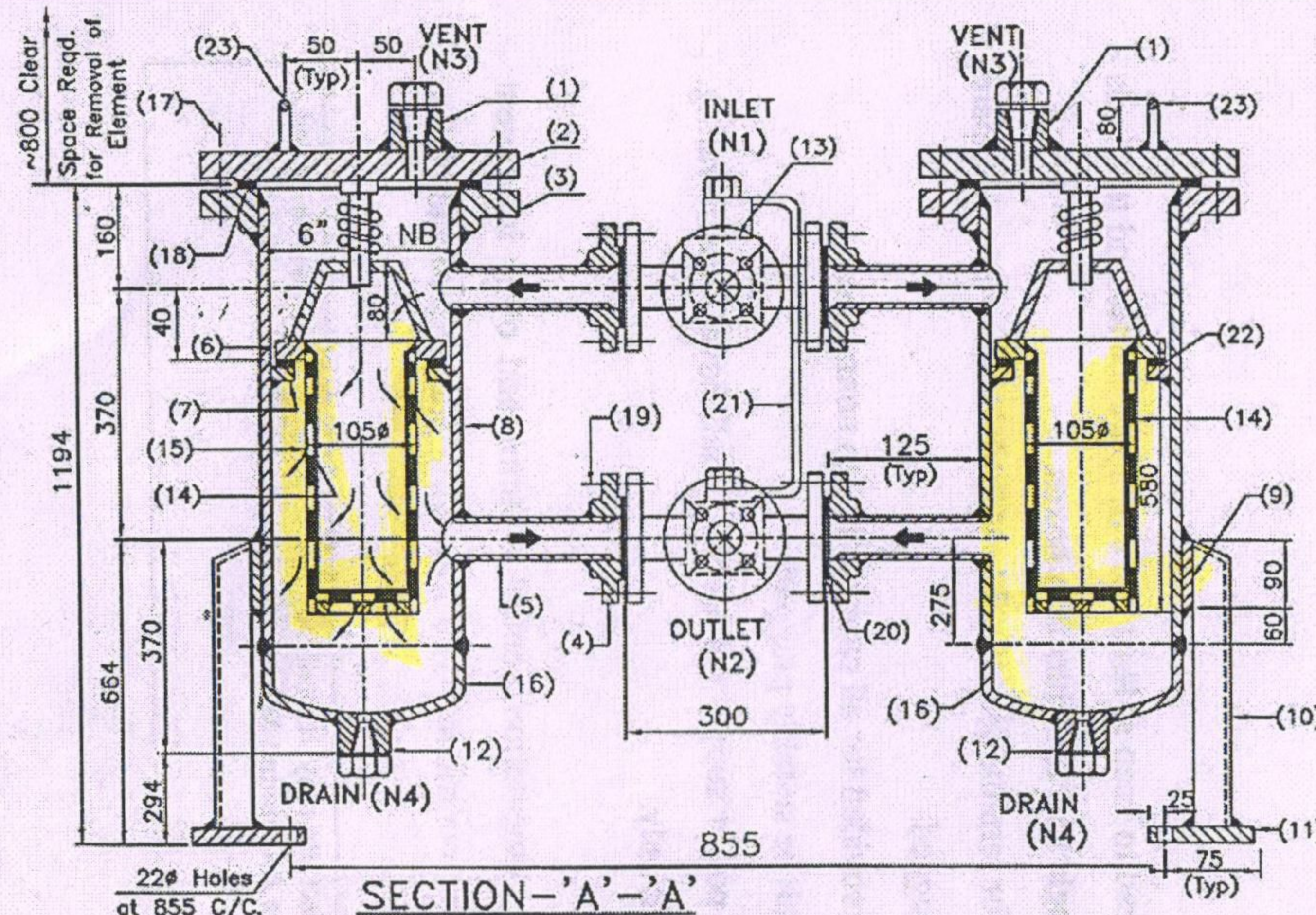
SIZE	QTY	PACKAGE NAME	TAG No.
50 NB	6 Nos.	FUEL OIL	50-DBS-019-01/02/03/04/05/06
End Conn.(In/Out)	2"NB, Flanged to 150# ASME B16.5, S.O.R.F.		
Degree Of Filtration	80 Mesh, 40 Swg.		
Servise	LDO		
Flow Rate / (Velocity)	30 m3/hr. / ---		
Viscosity / Sp.Gravity	--- / ---		
Oprt. Press./Temp.	1 kg/cm2(g) / 30°C		
Design Pressure/Temp.	5 kg/cm2 (g) / 45°C		
Hydrotest Pressure	15 kg/cm2 (g)		
Max.Allow.Press.Drop at Clean Cond.	0.2 kg/cm2 (g)		
Filtration Area-Gross/Net	1425 / 302 Cm2 (Ratio: 15.4 : 1)		
Design Code	ASME Section-VIII, Div.-1		
Weight of Filter	Empty : ~190 Kg. Filled : ~230 Kg.		
Ref.Doc. & Spec.No.	PR-P-130		

23	Handle	2	IS2062GrA	From 16# Rod
22	Gasket for Element	2	Graphite(NonAsb.)	3 Thk., STD.
21	Lever for 3-WayValves	1	C.S.	STD.
20	Gasket for (N1/N2)	4	Graphite(NonAsb.)	3 Thk., 92 O.D. x 85 I.D.
19	Stud with Two Nuts For (N1/N2)	16	SA193GrB7/SA194Gr2H	5/8"UNC x 85 Lg.
18	Gasket	2	Graphite(NonAsb.)	3 Thk., 215 O.D. x 171 I.D.
17	Stud with Two Nuts	16	SA193GrB7/SA194Gr2H	3/4"UNC x 110 Lg.
16	Dishend	2	SA516Gr70	6"NB, 10 Thk., Std.
15	Perforated Sheet	2	S.S.304	16G, 6.25# Hole, 8 Trnglr.Pitch
14	Wire Mesh	2	S.S.304	80 Mesh, 40 Swg.
13	3Way-Ball Valve (RB)	2	SA216GrWCB	2"NB, Flg. 150#, R.F.
12	Drain Coupling (N4)	2	SA 105	1"NPT(F), 3000#, with Plug
11	Base Plate	2	IS2062GrB	125 x 100 x 12 Thk.
10	Leg Support (Chennai)	2	IS2062GrB	[ 75 x 40 x 5 Thk.
9	Pad Plate	2	IS2062GrB	8 Thk x 90 x 90
8	Shell	2	SA106GrB	6"NB, Sch-40, Seamless
7	Element Support	2	IS2062GrB	154 O.D x 111 I.D x 10 Thk
6	Element Top Plate	2	IS2062GrB	140 O.D x 106 I.D x 10 Thk
5	In/Out Nozzle(N1/N2)	4	SA106GrB	2"NB, Sch-80, Seamless
4	In/Out Flange(N1/N2)	4	SA 105	2"NB, S.O.R.F., 150#, B-16.5
3	Shell Flange	2	SA 105	6"NB, S.O.R.F., 150#, B-16.5
2	Cover Flange	2	SA 105	6"NB, B.L.R.F., 150#, B-16.5
1	Vent Coupling (N3)	2	SA 105	1/2"NPT(F), 3000#, with Plug

DESCRIPTION	QTY	MAIL	SIZE
<b>BILL OF MATERIAL</b>			
GUJARAT OTOFILT (An ISO 9001:2008 Cert.Company) Plot No.-3712, Phase-V, G.I.D.C. Vatva, Ahmedabad-382 445. Ph.:(079) 25841164/1602, Fax:25842719 E-mail ID : gof@sify.com			
CLIENT:-Hindustan Dorr Oliver Ltd.			
Project No.:BYC-2090127			
P.O.No:-4520006118, Date:-10/11/2010			
TITLE :- Duplex Basket Filter (SIZE : 2"NB,150#) (Item Code : BPSTF1000215)			
SCALE :- N.T.S. FILE No: 7866D2			
A.O.No :- 7866 DATE :-12/11/2010			
ACAD BY HSG CHD BY B.J.PATEL DRG No :- 096C9865 1			



SUBSEQUENT OVERCOAT OF EPOXY PAINT, DFT- 25 MICRONS (MIN) PER COAT.  
FINISH COAT :- ACRYLIC POLYURETHANE (ONE COAT), DFT- 35 MICRONS (MIN)



- NOTE:-**
- 1) All dimensions are in mm Unless otherwise specified.  $\Delta$
  - 2) All Flange Facing Shall be Serrated Finish 125 AARH.  $\Delta$
  - 3) 3 Way Ball Valve Shall be Flow Chem / Shakti Engg. Make, M.O.C.: SA216 Gr WCB, & S.S.304 Ball, Teflon Seal
  - 4) **PAINT** (A) Outer Surface: Surface Preparation: Mechanical Cleaning  
Primer Coat: Epoxy Primer (Dark Red Shade 50 Micron)  
Final Coat: Polyurethane, Capri Blue Shade (RAL 5019 of RAL-K5)  
30 x 1 Coat = 30 Microns
  - 5) All Weld Shall be D.P. Checked only.  $\Delta$
  - 6) Flow Direction Shall be Marked in Body with Suitable Paint  $\Delta$
  - 7) Basket Shall be Design to Have Sufficient Strenght for Impact of Fluid  $\Delta$

SUBJECT TO  
INCORPORATION OF  
COMMENTS.

17 DEC 2010

APPROVED

HINDUSTAN DORR OLIVER LTD  
MUMBAI.

REV	DATE	DESCRIPTION	REV BY	CHD BY
0	12/11/10	ISSUED FOR APPROVAL	HSG	BJP
1	23/11/10	REVISED AS PER YOUR COMMENT & MARKED $\Delta$	HSG	BJP

#### DESIGN DATA

SIZE	QTY	PACKAGE NAME	TAG No.
80 NB	2 Nos.	FUEL OIL	80-DBS-019-01 / 02
End Conn.(In/Out)	3"NB, Flanged to 150#, ASME B16.5, S.O.R.F.		
Degree Of Filtration	80 Mesh, 40 Swg.		
Service	LDO		
Flow Rate / (Velocity)	30 m <sup>3</sup> /hr. / ---		
Viscosity / Sp.Gravity	--- / ---		
Oprt. Press./Temp.	1 kg/cm <sup>2</sup> (g) / 30°C		
Design Pressure/Temp.	5 kg/cm <sup>2</sup> (g) / 45°C		
Hydrotest Pressure	15 kg/cm <sup>2</sup> (g)		
Max.Allow.Press.Drop. at Clean Cond.	0.2 kg/cm <sup>2</sup> (g)		
Filtration Area-Gross/Net	2000 / 425 Cm <sup>2</sup> (Ratio: 9.65 : 1)		
Design Code	ASME Section-VIII, Div.-1		
Weight of Filter	Empty : ~230 Kg. Filled : ~280 Kg.		
Ref.Doc. & Spec.No.	PR-P-130		

23	Handle	2	IS2062GrA	From 16# Rod
22	Gasket for Element	2	Graphite(NonAsb.)	3 Thk., STD.
21	Lever for 3-WayValve	1	C.S.	STD.
20	Gasket for (N1/N2)	4	Graphite(NonAsb.)	3 Thk., 127 O.D. x 95 I.D.
19	Stud with Two Nuts For (N1/N2)	16	SA193GrB7/SA194Gr2H	5/8"UNC x 85 Lg.
18	Gasket	2	Graphite(NonAsb.)	3 Thk., 215 O.D. x 171 I.D.
17	Stud with Two Nuts	16	SA193GrB7/SA194Gr2H	3/4"UNC x 110 Lg.
16	Dishend	2	SA516Gr70	6"NB, 10 Thk., Std.
15	Perforated Sheet	2	S.S.304	16G, 6.25# Hole, 8 Trnglr.Pitch
14	Wire Mesh	2	S.S.304	80 Mesh, 40 Swg.
13	3Way Ball Valve (RB)	2	SA216GrWCB	3"NB, Flg. 150#, R.F.
12	Drain Coupling (N4)	2	SA 105	1"NPT(F), 3000#, with Plug
11	Base Plate	2	IS2062GrB	125 x 100 x 12 Thk.
10	Leg Support (Chennai)	2	IS2062GrB	[ 75 x 40 x 5 Thk.
9	Pad Plate	2	IS2062GrB	6 Thk x 90 x 90
8	Shell	2	SA106GrB	6"NB, Sch-40, Seamless
7	Element Support	2	IS2062GrB	154 O.D x 111 I.D x 10 Thk
6	Element Top Plate	2	IS2062GrB	140 O.D x 108 I.D x 10 Thk
5	In/Out Nozzle(N1/N2)	4	SA106GrB	3"NB, Sch-80, Seamless
4	In/Out Flange(N1/N2)	4	SA 105	3"NB, S.O.R.F., 150#, B-16.5
3	Shell Flange	2	SA 105	6"NB, S.O.R.F., 150#, B-16.5
2	Cover Flange	2	SA 105	6"NB, B.L.R.F., 150#, B-16.5
1	Vent Coupling (N3)	2	SA 105	1/2"NPT(F), 3000#, with Plug

S.No	DESCRIPTION	QTY	MATL	SIZE
<b>BILL OF MATERIAL</b>				
GUJARAT OTOFILT (An ISO 9001:2008 Cert.Company) Plot No.-3712, Phase-IV, G.I.D.C. Vatva, Ahmedabad-382 445. Ph.:(079) 25841184/1602, Fax:25842719 E-mail ID : got@oily.com				
CLIENT:- Hindustan Dorr Oliver Ltd.				
Project No.: BYC-2090127				
P.O.No:- 452006118, Date:-10/11/2010				
ACAD BY: HSG				
CHD BY: B.J.PATEL				
DRG No :-				
REV				
TITLE :- Duplex Basket Filter (SIZE : 3"NB, 150#) (Item Code : BPSTF1000315)				
SCALE :- N.T.S				
FILE No: 7866D3				
A.O.No :- 7866				
DATE :- 14/11/2010				
096C9864 1				