



Toase-e Park Sanati Gohar Ofogh  
 Petrochemical Co.  
**CONCEPTUAL, BASIC and DETAIL DESIGN  
 ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Filter Dryer Data Sheet

Document No.: EI027-HSE-VD – ME– DSH– 010- R0

Rev. R0

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# STYRENE PARK OFFSITE

**Document Title:**  
**Filter Dryer Data Sheet**

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R0	21-07-2024	IFA	F.sh	M.O	A.M



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**REVISION RECORD SHEET**

Page Page	Revisions							Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6		R0	R1	R2	R3	R4	R5	R6
1	X							41							
2	X							42							
3	X							43							
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FILTER DRYER								
1	SERVICE	PROPANE FILTER/ DRYER			ITEM NO.	RU0001A-FT-01		
2	TYPE	HORIZONTAL			QUANTITY :	1		
3	SHELL ID :	4" SCH 40	TL.TL. :	205	mm	CAPACITY	SHELL : 0.0018 m <sup>3</sup>	
4	JACKET ID :	-	TL.TL. :	-	mm	JACKET:	- m <sup>3</sup>	
5	WEIGHT	EMPTY: 23.5	OPERATING:	24.33	kg	INSTALLATION:	OUTDOOR	
6	DESIGN & TEST DATA				MATERIALS			
7	SHELL		JACKET		SHELL			JACKET
8	CODE & STD	NO CODE			SHELL	STPG 370	-	
9	FLUID	PROPYLENE			CAP	S25C	-	
10	TEMPERATURE	DESIGN	-45/100	°C	-	°C	GIRTH FLG	-
11		OPERATING	55	°C	-	°C	NOZZLE NECKS	SA 333 GR.6
12	PRESSURE	DESIGN	25.0	BarG	-	BarG	NOZZLE FLANGE	SA 350 LF2 CL.1
13		OPERATING	18.4	BarG	-	BarG	INTERNALS	S.S. 304
14		VACUUM	1.013	BarA	-	BarG	INT PIPES	-
15	DENSITY @PT	520	kg/m <sup>3</sup>	-	kg/m <sup>3</sup>	BOLTS / NUTS	NZL FLG	-
16	VISCOSITY @PT	0.1	cP	-	cP		GIRTH FLG	-
17	CORROSION ALLOW.	1.0	mm	-	mm		INT	-
18	VAC DESIGN	NO	-	-	-		EXT	SCM435
19	TEST	HYDRO	-	BarG	-	BarG	NZL FLG	T #/1991-NF
20		PNUEM LEAK	37.5	BarG	-	BarG	GIRTH FLG	-
21		VACUUM	-	BarG	-	BarG	INT	-
22	POST WELD HEAT TREAT	-	-	-	-	LEG/PADS	-	
23	RADIOGRAPHIC EXAM. (CYL/HD)	-	-	-	-	CLIPS/PADS	-	
24	JOINT EFF (CYL/HD)	1.0	-	-	-	ANCHOR BOLT	-	
25	WELDER'S QUALIF	-	-	-	-	LIFTING LUG/PAD	-	
26	SEISMIC COEF	N/A			BLIND FLANGE	S25C	-	
27	WIND LOAD	N/A						
28	TYPE OF HEAD	CAP / FLAT						
29	INSULATION (THK,AREA)	NO	-	-	mm	REMARKS:		
30	SURFACE PREP EXT/INT	ST3/ -			1- FILTER SHOUL BE FILLED WITH MOLECLAR SIEVE FOR DRYING PROPANE.			
31	FIRE PROOFING	N/A			2- THE FILTER IS NOT DESIGNED FOR CATCHING DIRT BUT IS AS ALREADY INDICATED MOLECULAR SIEVE. FOR THIS REASON NO PRESSURE DROP IS TO BE CONSIDER.			
32	PAINTING	AS PER PROJECT SPEC.			3- WATER CONTENT: IN INLET: = < 2 wt ppm IN OUTLET: <1 ppm			
33					4- PROPYLENE FLOW RATE IS 1.0 ~ 1.2 m3/h (JUST FOR STARTING UP THE PACKAGE).			
34	ACCESS. & SPL PARTS	COALESCKER: 2 STAGES						
35								
36								
37	SPARE PARTS							
38	TOLERANCE							
39	NOZZELS & OPENINGS (per one shell)							
40	MARK	NO.	SIZE	FLANGE			SERVICE	
41				RATING	TYPE	FACE		
42	3	1	1"	ASME 300#	WN	RF	INLET	
43	2	1	1"	ASME 300#	WN	RF	OUTLET	
44	M	1	OD: 174 mm	-	-	-	COVER	
45	SKETCH							

