



## VALVE DATA SHEET



Project Name :

**HPC Project**

Site Location :

**DAESAN, KOREA**

Document Title :

**VALVE DATA SHEET**

Document No :

**VP-15040-MS209-012**

LEC's Job No. : 15040

0	2021-01-07	FINAL	M.S.CHAE	C.K.LEE	J.D.SEOL
Rev	Date	Description	Prepared	Reviewed	Approved



FUJI FILTER KOREA CO., LTD.				VALVE DATA SHEET FOR DIPHRAGM VALVES										REV.
				REV.	DATE	DESCRIPTION	PREP'D	CHK'D	APPV'D					
				B	2020. 02. 04	FOR APPROVAL	M.S.CHAE	C.K.LEE	J.D.SEOL					
JOB NO : 15040		PAGE 1 OF 2		C	2020. 02. 27	FOR CONSTRUCTION	M.S.CHAE	C.K.LEE	J.D.SEOL					
PROJECT : HPC PROJECT				D	2020. 04. 22	FOR CONSTRUCTION	M.S.CHAE	C.K.LEE	J.D.SEOL					
CLIENT : HYUNDAI CHEMICAL				E	2020. 06. 04	FOR CONSTRUCTION	M.S.CHAE	C.K.LEE	J.D.SEOL					
DOC.NO. : VP-15040-MS209-012		PREP'D :		F	2020. 07. 03	FOR CONSTRUCTION	M.S.CHAE	C.K.LEE	J.D.SEOL					
GENERAL														
1	TAG NO.		M24-SOV-30101A-G				M24-SOV-50302A-B							
2	QUANTITY	P&ID NO.	7	-		2	-							
3	SERVICE		GF-M24-3001 BLOW BACK GAS INLET LINE				GF-M24-5002 BLOW BACK GAS INLET LINE							
4	LINE SIZE	LINE SCHEDULE	1 1/2"	STD.		3/4"	STD.							
5	PIPE MATERIAL CLASS		HC22				HC22				E			
6	ENCLOSURE CLASS		-				-							
BODY & TRIM														
7	TYPE OF BODY		DIAPHRAGM				DIAPHRAGM							
8	BODY SIZE	PORT SIZE	1 1/2"	MFR. STD.		3/4"	MFR. STD.							
9	GUIDING	NO. OF PORTS	SIDE	SINGLE		SIDE	SINGLE							
10	END CONNECTION & RATING		NPT. F				NPT. F							
11	MAT'L	BODY	SEAT	AISI 316L	-		AISI 316L	-						
		STEM	GAUDE & CAGE	-	-		-	-						
		PACKING	PLUG/ BALL/ DISK	-	VITON		-	VITON						
12	TRIM FORM		-				-							
13	BONNET TYPE		-				-							
14	SEAT TIGHTNESS		-				-							
15	MAXIMUM ALLOWABLE SOUND LEVEL		-				-							
SOLENOID VALVE														
12	ENCL. CLASS		Ex 'd' IIC T4, IP65 & Ex 'td', IP65				Ex 'd' IIC T4, IP65 & Ex 'td', IP65				E			
13	ELEC. CONNECTION		1/2" NPT				1/2" NPT							
14	VOLTAGE		AC 120V				AC 120V							
15	MANUAL RESET		N/A				N/A							
PROCESS CONDITIONS														
16	OPERATING CASE													
17	FLUID	STATE	PROPYLENE GAS		GAS	NITROGEN		GAS						
			MAX	NOR	MIN	UNIT	MAX	NOR	MIN	UNIT				
18	FLOW RATE		-	44		m3/h	-	14	-	m3/h	D			
19	OPERATING PRESSURE		5	5	5	kg/cm2g	7.5	7	6.3	kg/cm2g	C			
20	DIFFERENTIAL PRESSURE		-	-	-	kg/cm2g	-	-	-	kg/cm2g				
21	TEMPERATURE		45	45	45	degC	38	38	38	degC	C			
22	REGULATED OPERATING PRESSURE						7.5				D			
23	% FLASH													
24	CALCULATED Cv													
25	RATED Cv													
26	MAXIMUM SHUT-OFF ΔP		8.5		kg/cm2	8.5		kg/cm2			D			
27	CRITICAL PRESSURE													
28	OPERATING VISCOSITY		0.01											
29	SUPERHEAT													
30	MOLECULAR WEIGHT	OPER. SP. GR.												
31	Cp/Cv	COMP. FACTOR (Z)												
MANUFACTURER														
32	MANUFACTURER													
33	MODEL NO.													
NOTES:														
1. TBD : To be decided														

FUJI FILTER KOREA CO., LTD.				VALVE DATA SHEET FOR MANUAL VALVES										REV.
				REV.	DATE	DESCRIPTION				PREP'D	CHK'D	APPV'D		
				B	2020. 02. 04	FOR APPROVAL				M.S.CHAE	C.K.LEE	J.D.SEOL		
				C	2020. 02. 27	FOR CONSTRUCTION				M.S.CHAE	C.K.LEE	J.D.SEOL		
JOB NO : 15040		PAGE 2 OF 2		D	2020. 04. 22	FOR CONSTRUCTION				M.S.CHAE	C.K.LEE	J.D.SEOL		
PROJECT : HPC PROJECT				E	2020. 06. 04	FOR CONSTRUCTION				M.S.CHAE	C.K.LEE	J.D.SEOL		
CLIENT : HYUNDAI CHEMICAL				F	2020. 07. 03	FOR CONSTRUCTION				M.S.CHAE	C.K.LEE	J.D.SEOL		
DOC.NO. : VP-15040-MS209-012		PREP'D :												
GENERAL														
1	TAG NO.		-			-			-					
2	QUANTITY	P&ID NO.	14	-		4	-		1	-				
3	SERVICE		GF-M24-3001			GF-M24-5002			GF-M24-5002					
4	LINE SIZE	LINE SCHEDULE	1 1/2"	STD.		3/4"	STD.		1/2"	STD.				
5	PIPE MATERIAL CLASS		HC22			HC22			HC22					
6	ENCLOSURE CLASS		-			-			-					
BODY & TRIM														
7	TYPE OF BODY		BALL			BALL			BALL					
8	BODY SIZE	PORT SIZE	1 1/2"	MFR. STD.		3/4"	MFR. STD.		1/2"	MFR. STD.				
9	GUIDING	NO. OF PORTS	TOP	SINGLE		TOP	SINGLE		TOP	SINGLE				
10	END CONNECTION & RATING		150# RF			150# RF			SCREW TYPE					
11	MAT'L	BODY	SEAT	A312-TP304	MFR. STD.	A312-TP304	MFR. STD.	A312-TP304	PTFE					
		STEM	GAUDE & CAGE	304SS + H.F	-	304SS	-	304SS	-					
		PACKING	PLUG/ BALL/ DISK	TEFLON	304SS + H.F	TEFLON	304SS	TEFLON	304SS					
12	TRIM FORM		-			-			-					
13	BONNET TYPE		-			-			-					
14	SEAT TIGHTNESS		ANSI IV (standard)			ANSI IV (standard)			ANSI IV (standard)					
15	MAXIMUM ALLOWABLE SOUND LEVEL		-			-			-					
PROCESS CONDITIONS														
16	OPERATING CASE													
17	FLUID	STATE	PROPYLENE GAS		GAS	NITROGEN		GAS	NITROGEN		GAS			
			MAX	NOR	MIN	UNIT	MAX	NOR	MIN	UNIT	MAX	NOR	MIN	UNIT
18	FLOW RATE		-	44		m3/h	-	14	-	m3/h	-	14	-	m3/h
19	OPERATING PRESSURE		5	5	5	kg/cm2g	7.5	7	6.3	kg/cm2g	7.5	7	6.3	kg/cm2g
20	DIFFERENTIAL PRESSURE		-	-	-	kg/cm2g	-	-	-	kg/cm2g	-	-	-	kg/cm2g
21	TEMPERATURE		45	45	45	degC	38	38	38	degC	38	38	38	degC
22	REGULATED OPERATING PRESSURE							7.5				7.5		
23	% FLASH													
24	CALCULATED Cv													
25	RATED Cv													
26	MAXIMUM SHUT-OFF ΔP		10		kg/cm2		10		kg/cm2	10		kg/cm2		
27	CRITICAL PRESSURE													
28	OPERATING VISCOSITY		0.01											
29	SUPERHEAT													
30	MOLECULAR WEIGHT	OPER. SP. GR.												
31	Cp/Cv	COMP. FACTOR (Z)												
MANUFACTURER														
32	MANUFACTURER		-				-			-				
33	MODEL NO.		-				-			-				
NOTES:														
1. TBD : To be decided														