


GENERAL	1	Tag No.	113-HV-7341A		
	2	Service	MPS TO 113ST301EJ14		
	3	P&ID No.	VS2158-412-A-138		
	4	Line No.	Vessel No.	1.5"-MPS-113-0001-F01-HS	
	5	Line Size	Sched. No.	1.5	in XS
	6	Line Class	Corrosion Allowance	B1AS	1.5 mm
BODY	7	Type of Body	Gate Valve (BB-BG-OS&Y)		
	8	Body Size	Port Size	2	in Full
	9	Guiding	No. of Port	Top 1	
	10	End Conn. & Rating(ANSI)	Facing	Flanged ASME B16.5 & CL 300 RF	
	11	Body Material (ASTM)	ASTM A216 Grade WCB		
	12	Packing Material	GRAPHITE (P#6710+6617)		
	13	Colour of Valve Body	As per Specification for Painting, doc. No. S-000-13A0-0001V		
	14	Bonnet Type	Extended (BB-BG-OS&Y)		
	15	Form	On/Off		
	16	Trim	Seat Material	Wedge Material	A106-B+STL.6 A217-CA15+STL.6
	17		Shaft Material	Disc Material	A479-410 N/A
	18	Required Seat Tightness	ANSI IV		
	19	Max. Allow Sound Level (dBA)	≤85		
	MOTOR ACTUATOR	20	NACE requirement	PWHT requirement	No
21		Type	Electric Motor Actuator		
22		Power Supply	690V AC, 3 Ph/50 Hz		
23		Stroke Time (sec)	Motor Rating (KW)	12±10%	0.15
24		Insulation	Class F		
25		Enclosure	Zone2, EExd, Group IIB, T4 / IP68		
26		Electric Connection	Power : M25 x 1.5 ISO (1 EA) furnished with Plastic Plug, Signal : M25 x 1.5 ISO (2 EA) furnished with Certified Metal Plug.		
27		Mode of Operation	Open - Close (Inching Type)		
28		Flow Action to	Fail Position	-	Stay put
29		Handwheel	Location	Yes	Top
30		Limit Switches	Yes		
31		Motor Starter	Location	Integral, Reversing	
32			Input Signal	N/A	
33		Colour of Actuator	MFR STD and suitable for the environmental conditions.		
ACCESSORIES	34	Position Transmitter	-		
	35	Phase Discriminator	Note 7		
	36	Interposing Relay	Yes		
	37	Selector Switches	Local/Off/Remote on Actuator		
	38	Push Button	Open/Close on Actuator		
SERVICE	39	Fire Proofing	No		
	40	Fluid Name / Fluid State / Fluid phase	Sea Water		Liquid Single
	41		Min	Normal	Max
	42	Flow Rate	Sm <sup>3</sup> /h		
	43	Inlet Pressure	MPa-g	2.550	
	44	Outlet Pressure	MPa-g		
	45	Diff. Pressure	MPa		
	46	Temperature	°C	325	
	47	Specific Gravity		0.6222	
	48	Viscosity	cP	0.0211	
	49	Valve Cv		307	
	50	Predicted Sound Level	dBA		
	51	Max. ShutOff D/P	Molecular Weight	2.8	MPa
	52	Design Pressure	Design Temp.	2.8	MPa-g 375 °C
	53	Valve Manufacturer	Actuator Manufacturer	PK Valve	Rotork
	54	Valve Model No.	Actuator Model No.	1000202-27	IQ10A
55	Requisition No.		RV216G-301		

Notes: N/A : Not Applicable

- Refer to project document no. S-000-1370-0001V-Rev.1, "Instrument General Specification" & doc.no. S-000-1360-0301-Rev.A."Technical Specification for Motor Operated Valves.
- Refer to project document no. S-000-1360-0002V-Rev.0, " Piping Material Specifications" & S-000-1360-0009V-Rev.A,"Technical Specification for Manual Valves".
- Supplier shall provide permanently attached stainless steel nameplate with Tag, Manufacturer, Model Number, and P.O. Number.
- Gate valve shall be as per API 602 , Hydrottested as per Apl 598
- All valve and actuator shall be fully assembled and tested.
- Each Valve shall be provided locally with a valve position indicator showing percentage of full travel
- Actuator shall have standard protection features against single phasing or incorrect phase rotation, overheating by using thermostate in the winding and high voltage transients by using opto-isolators.
- The motor torque shall be at least 1.25 times the calculated torque to enable operation of a frozen valve.
- Direction of flow through a valve shall be permanently marked on the body or flanges.
- Position status contacts (One SPDT each) for remote indication of Open/Close/Fail position shall be provided for external use by Customer. The contact shall be rated for 2A@24VDC.
- Actuator shall have relays for the remote operation of the valve for 'Open' and 'Close' actions. The relay shall be rated 24 Vdc.
- Deleted

1		JHM	2017-03-28	As Built	INSTRUMENT SPECIFICATION			
0		HGL	2014-09-25	Issue for Purchase	Motor Operated Valve			
2		YRR	2014-07-14	Issue for Review	Sheet 7 of 12			
20		No. AS BUILT	By	Date	Description	Code: NA	Doc. No.: S-113-1360-0301S	Rev.1