




COMPANY NAME: Golden Triangle Polymers Company LLC
PROJECT NAME : Golden Triangle Polymers Project
PURCHASER : JKJV
PURCHASER JOB CODE : 0-8936-2
PURCHASE ORDER NO. : 0-8936-2-P -215A-201-A
VENDOR NAME : Siemens Energy

EQUIPMENT/MATERIAL NAME: Process Water Clean-up Unit
ITEM NO.: 10- X-2400
DOCUMENT TITLE: DATASHEET OF VALVES (MANUAL)

ISSUE PURPOSE :				FC						
PURCHASER DOC.NO.	SDR CODE				PURCHASE ORDER NO.	DOC. TYPE CODE		SERIAL NO.	REV.	
			V	-	-215A-201-A	-	DGN	-	321	2
COMPANY DOC. NO.	C06	-	10-JKVN							
VENDOR DOC. No.	SEI-DGN-321									

Contractor Use
Reviewe Result


	Golden Triangle Polymers Project			Document Title: V-215A-201-A-DGN-321			
				Document No.: Datasheet Of Valves (Manual)			
	COMMENT RESOLUTION SHEET			Rev. No.: 1			
				Vendor Name: Sparkle Clean Tech Pvt. Ltd.			
S.No.	Ref Doc No./ Title	Ref. Clause	Discipline	JGC Comments Date:	Vendor Response Date:	Status Closed/ Open	
1	V-215A-201-A-DGN-321	Page No - 1	Mechanical	1 number required for LP steam utility line, request to check number of valve to match with P&ID requirement	Noted and Updated		
2	V-215A-201-A-DGN-321	Page No - 1	Mechanical	<div>Hot insulation</div> <div>1k Valve - Lift</div> <div>Piping Spec: 1CS13</div> <div>Insulation : H-VT, NAVT</div>	Noted and Updated		
3	V-215A-201-A-DGN-321	Page No - 1	Mechanical	1 number required for LP steam utility line	Noted and Updated		
4	V-215A-201-A-DGN-321	Page No - 1	Mechanical	specify correct insulation type (Typical)	Noted and Updated		


INDEX							
Sr No	Items			Tag no		Size	Quantity
1	CHECK VALVE - LIFT			CLSATH1		1"	6
2	CHECK VALVE - LIFT			CLSASH1		1"	3
3	CHECK VALVE - LIFT			CLSASE1		1"	7
4	CHECK VALVE - SWING			CSAARH1		2"	5
						3"	2
						4"	2
5	CHECK VALVE - SWING			CSAARH1		8"	2
6	GATE VALVE			GASATH1		1"	12
						3/4"	6
7	GATE VALVE			GASASH2F		1"	2
						3/4"	3
8	GATE VALVE			GASACE1		3/4"	2
9	GATE VALVE			GASASE2		1"	11
						3/4"	6
10	GATE VALVE			GASATH1		3/4"	16
11	GATE VALVE			GASATH1 (CSO)		3/4"	8
12	GATE VALVE			GAAARH1F		2"	30
						3"	19
						4"	5
13	GATE VALVE			GAAARH1F		6"	18
						8"	20
14	GATE VALVE			GAAARH1F (CSO)		3"	8
						4"	2
15	GATE VALVE			GAAARH2F		12"	4
						10"	3
16	GATE VALVE			GASACH1F		1"	127
17	GATE VALVE			GASASH2F		1"	45
						3/4"	6
						1-1/2"	8
18	GATE VALVE			GAAARE1		2"	6
19	GATE VALVE			GASACE1		1"	9
						3/4"	11
20	GATE VALVE			GASASE2		3/4"	11
21	GATE VALVE			GASACH1F		1/2"	18
22	GATE VALVE			GAAARH1F (CSO)		2"	2
23	GATE VALVE			GAAARH1F (CSO)		6"	1
24	GATE VALVE			GAAARH1F		2"	19
25	GATE VALVE			GABARH1F		3"	18
26	GLOBE VALVE			GLAARH1F		2"	2
						3"	2
27	GLOBE VALVE			GLAARH2F		6"	3
						8"	1
28	GLOBE VALVE			GLAARH2F (CSO)		6"	1
29	GLOBE VALVE			GLSASH1F		1"	4
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		
No.	By	Chk	App	Date	Revision		Rev: 2


Manual Valve





Rev: 2


Check Valve - Lift							
Tag No : CLSATH1			Piping Spec : 1CS11				
Size Range: 1"			Insulation : NA				
Design Specification							
Description : CS body A105N, API #8 trim, piston, BC, horizontal			Cover / Bonnet -Type : Bolted				
Rating: #800			Speciality : NA				
End Connection : THRD FNPT XFNP			Operation : NA				
API Trim : 8			PORT : NA				
Temp Limit (°F) : 12 TO 350			Quantity : 6				
Description		Material					
Body		ASTM A105					
Stem (No casting)		NA					
Seat / Seat Ring		ASTM A105 + Stellite-6					
Back Seat		NA					
Wedge / Plug / Disc		ASTM A276 Gr. 410					
Bonnet /Cover		ASTM A105					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		NA					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 46)					
Note: 1. NA - Not Applicable 2. Corrosion Allowance Required 1.6 mm							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		
No.	By	Chk	App	Date	Revision		Rev: 2


Check Valve - Lift							
Tag No : CLSASH1			Piping Spec : 1CS12				
Size Range: 1"			Insulation : NA				
Design Specification							
Description : CS body, API #8 trim, piston, BC, horiz			Cover / Bonnet -Type : Bolted				
Rating: #800			Speciality : NA				
End Connection : SW X SW (Socket Weld)			Operation : NA				
API Trim : 8			PORT : NA				
Temp Limit (°F) : 12 TO 350			Quantity : 3				
Description		Material					
Body		ASTM A105					
Stem (No casting)		NA					
Seat / Seat Ring		ASTM A105 + Stellite-6					
Back Seat		NA					
Wedge / Plug / Disc		ASTM A276 Gr. 410					
Bonnet /Cover		ASTM A105					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		NA					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 48)					
<p>Note:</p> <p>1. NA - Not Applicable</p> <p>2. Corrosion Allowance Required 1.6 mm</p> <p>3. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).</p> <p>4. There is no butt weld for RT</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


Check Valve - Lift						
Tag No : CLSASE1				Piping Spec : 1CS13		
Size Range: 1"				Insulation : H-NT		
Design Specification						
Description : CS body, API #5 trim, BC, horiz., piston				Cover / Bonnet -Type : Bolted		
Rating: #800				Speciality : NA		
End Connection : SW X SW (Socket Weld)				Operation : NA		
API Trim : 5				PORT : NA		
Temp Limit (°F) : 12 TO 350				Quantity : 1		
Description		Material				
Body		ASTM A105				
Stem (No casting)		NA				
Seat / Seat Ring		ASTM A105 + Stellite-6				
Back Seat		NA				
Wedge / Plug / Disc		ASTM A276 Gr. 410 + STELLITE-6				
Bonnet /Cover		ASTM A105				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		NA				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 47)				
Note: 1. H-NT - Hot Insulation 2. NA - Not Applicable 3. Corrosion Allowance Required 1.6 mm 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no butt weld for RT						
						Manual Valve 
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	Rev: 2


Check Valve - Swing						
Tag No : CSAARH1				Piping Spec : 1CS12		
Size Range: 2",3",4"				Insulation : HP-NT		
Design Specification						
Description : CS body, API #8 trim, BC, swing				Cover / Bonnet -Type : Bolted		
Rating: #150				Speciality : NA		
End Connection : Raised Faced Flange end as per B16.5				Operation : NA		
API Trim : 8				PORT : NA		
Temp Limit (°F) : 12 TO 350				Quantity : (2" -5 Nos , 3"- 2 Nos , 4"- 2 Nos)		
Description		Material				
Body		ASTM A 216 Gr. WCB				
Stem (No casting)		NA				
Seat / Seat Ring		ASTM A 217 Gr. CA15 + STELLITE-6				
Back Seat		NA				
Wedge / Plug / Disc		ASTM A 217 Gr. CA15				
Bonnet /Cover		ASTM A 216 Gr. WCB				
Gasket		SPIRAL WOUND SS 316 + GRAPHITE				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		NA				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 19,20,21)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion Allowance Required 1.6 mm						
						Manual Valve  Rev: 2
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	


Check Valve - Swing						
Tag No : CSAARH1				Piping Spec : 1CS12		
Size Range: 8"				Insulation : HP-NT		
Design Specification						
Description : CS body, API #8 trim, BC, swing				Cover / Bonnet -Type : Bolted		
Rating: #150				Speciality : NA		
End Connection : Raised Faced Flange end as per B16.5				Operation : NA		
API Trim : 8				PORT : NA		
Temp Limit (°F) : 12 TO 350				Quantity : 2		
Description		Material				
Body		ASTM A 216 Gr. WCB				
Stem (No casting)		NA				
Seat / Seat Ring		ASTM A 105 + STELLITE-6				
Back Seat		NA				
Wedge / Plug / Disc		ASTM A 216 Gr. WCB + 13% Cr. FACING				
Bonnet /Cover		ASTM A 216 Gr. WCB				
Gasket		SPIRAL WOUND SS 316 + GRAPHITE				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		NA				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 22)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion Allowance Required 1.6 mm						
						Manual Valve 
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	Rev: 2


GATE VALVE							
Tag No : GASATH1			Piping Spec : 1CS11				
Size Range: 3/4", 1"			Insulation : NA				
Design Specification							
Description : CS body A105N, API #8 trim, BB,RP			Bonnet -Type : Bolted				
Rating: #800			Speciality : NA				
End Connection : THRD FNPT XFNPT			Operation : NA				
API Trim : 8			PORT : Reduced Port				
Temp Limit (°F) : 12 TO 350			Quantity : (3/4"- 6 Nos , 1"- 12 Nos)				
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 35, 36)					
Note: 1. NA - Not Applicable 2. Corrosion Allowance Required 1.6 mm							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GASASH2F			Piping Spec : 1CS12				
Size Range: 3/4", 1"			Insulation : NA				
Design Specification							
Description : CS body, API #8 trim, FP, BB			Bonnet -Type : Bolted				
Rating: #800			Speciality : Low Emission				
End Connection : SW X SW (Socket Weld)			Operation : NA				
API Trim : 8			PORT : Full Port				
Temp Limit (°F) : 12 TO 350			Quantity : (3/4"- 3 Nos , 1"- 2 Nos)				
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 1,45)					
Note: 1. NA - Not Applicable 2. Corrosion Allowance Required 1.6 mm 3. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 4. There is no butt weld for RT							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		
No.	By	Chk	App	Date	Revision		Rev: 2


GATE VALVE							
Tag No : GASACE1				Piping Spec : 1CS13			
Size Range: 3/4"				Insulation : H-NT			
Design Specification							
Description : CS body w/API #5 trim, RP, WB				Bonnet -Type : Bolted			
Rating: #800				Speciality : NA			
End Connection : SW X THRD (FNPT)				Operation : NA			
API Trim : 5				PORT : Reduced Port			
Temp Limit (°F) : 12 TO 350				Quantity : 2			
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15 + STELLITE-6					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 39)					
Note: 1. H-NT - Hot Insulation 2. NA - Not Applicable 3. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 4. There is no butt weld for RT 5. Corrosion Allowance Required 1.6 mm							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GASASE2				Piping Spec : 1CS13			
Size Range: 3/4", 1"				Insulation : H-NT			
Design Specification							
Description : CS body w/API #5 trim, RP, WB				Bonnet -Type : Bolted			
Rating: #800				Speciality : NA			
End Connection : SW X SW (Socket Weld)				Operation : NA			
API Trim : 5				PORT : Reduced Port			
Temp Limit (°F) : 12 TO 350				Quantity : (3/4"- 6 Nos , 1"- 11 Nos)			
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15 + STELLITE-6					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 42,43)					
Note:							
1. H-NT - Hot Insulation							
2. NA - Not Applicable							
3. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).							
4. There is no butt weld for RT							
5. Corrosion Allowance Required 1.6 mm							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		
No.	By	Chk	App	Date	Revision		Rev: 2


GATE VALVE						
Tag No : GASATH1				Piping Spec : 1CS11		
Size Range: 3/4"				Insulation : HP-NT		
Design Specification						
Description : CS body A105N, API #8 trim, BB,RP				Bonnet -Type : Bolted		
Rating: #800				Speciality : NA		
End Connection : THRD FNPT XFNPT				Operation : NA		
API Trim : 8				PORT : Reduced Port		
Temp Limit (°F) : 12 TO 350				Quantity : 16		
Description		Material				
Body		ASTM A 105 N				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6				
Back Seat		STELLITE-6				
Wedge / Plug / Disk		ASTM A217 Gr CA15				
Bonnet /Cover		ASTM A 105 N				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 37)				
Note: 1. NA - Not Applicable 2. HP-NT - Personal Protection 3. Corrosion Allowance Required 1.6 mm						
						Manual Valve  Rev: 2
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	


GATE VALVE							
Tag No : GASATH1 (CSO)			Piping Spec : 1CS11				
Size Range: 3/4"			Insulation : HP-NT				
Design Specification							
Description : CS body A105N, API #8 trim, BB,RP			Bonnet -Type : Bolted				
Rating: #800			Speciality : NA				
End Connection : THRD FNPT XFNPT			Operation : Hand Wheel				
API Trim : 8			PORT : Reduced Port				
Temp Limit (°F) : 12 TO 350			Quantity : 8				
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 38)					
Note: 1. NA - Not Applicable 2. CSO - Car Seal Open 3. Corrosion allowance minimum 1.6 mm. 4. HP-NT - Personal Protection							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GAAARH1F			Piping Spec : 1CS12				
Size Range: 2",3",4"			Insulation : HP-NT				
Design Specification							
Description : CS body w/API #8 trim, BB, FP			Bonnet -Type : Bolted				
Rating: #150			Speciality : Low Emission				
End Connection : Raised Faced Flange end as per B16.5			Operation : Hand Wheel				
API Trim : 8			PORT : Full Port				
Temp Limit (°F) : 12 TO 350			Quantity : 2"- 30 Nos , 3"-19 Nos , 4"-5 Nos				
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A217 Gr CA15 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 7,8,9)					
<p>Note:</p> <p>1. NA - Not Applicable</p> <p>2. Corrosion allowance minimum 1.6 mm.</p> <p>3. HP-NT - Personal Protection</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GAAARH1F			Piping Spec : 1CS12				
Size Range: 6", 8"			Insulation : HP-NT				
Design Specification							
Description : CS body w/API #8 trim, BB, FP			Bonnet -Type : Bolted				
Rating: #150			Speciality : Low Emission				
End Connection : Raised Faced Flange end as per B16.5			Operation : Hand Wheel				
API Trim : 8			PORT : Full Port				
Temp Limit (°F) : 12 TO 350			Quantity : 6"- 18 Nos , 8"- 20 Nos				
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A105 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr. WCB+13%Cr. FACING					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 10,11)					
<p>Note:</p> <p>1. NA - Not Applicable</p> <p>2. Corrosion allowance minimum 1.6 mm.</p> <p>3. HP-NT - Personal Protection</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GAAARH1F (CSO)				Piping Spec : 1CS12			
Size Range: 3",4"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #8 trim, BB, FP				Bonnet -Type : Bolted			
Rating: #150				Speciality : Low Emission			
End Connection : Raised Faced Flange end as per B16.5				Operation : Hand Wheel			
API Trim : 8				PORT : Full Port			
Temp Limit (°F) : 12 TO 350				Quantity : 3"- 8 Nos , 4"- 2 Nos			
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A217 Gr CA15 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 25, 26)					
<p>Note:</p> <p>1. NA - Not Applicable</p> <p>2. Corrosion allowance minimum 1.6 mm.</p> <p>3. HP-NT - Personal Protection</p> <p>4. CSO - Car Seal Open</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE							
Tag No : GAAARH2F				Piping Spec : 1CS12			
Size Range: 10", 12"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #8 trim, BB, FP,GO				Bonnet -Type : Bolted			
Rating: #150				Speciality : Low Emission			
End Connection : Raised Faced Flange end as per B16.5				Operation : GEAR OPERATION			
API Trim : 8				PORT : Full Port			
Temp Limit (°F) : 12 TO 350				Quantity : 10"- 3 Nos , 12"- 4 Nos			
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A105 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr CA15 + STELLITE-6					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 12, 13)					
<p>Note:</p> <p>1. NA - Not Applicable</p> <p>2. Corrosion allowance minimum 1.6 mm.</p> <p>3. HP-NT - Personal Protection</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		

GATE VALVE							
Tag No : GASACH1F				Piping Spec : 1CS12			
Size Range: 1"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #8 trim, RP,WB				Bonnet -Type : BOLTED			
Rating: #800				Speciality : LOW EMISSION			
End Connection : SW X THRD (FNPT)				Operation : HAND WHEEL			
API Trim : 8				PORT : Reduced Port			
Temp Limit (°F) : 12 TO 350				Quantity : (1"- 127 Nos)			
Description		Material					
Body		ASTM A 105					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr.STEEL +STELLITE -6					
Back Seat		STELLITED					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A105					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 4)					
Note: 1. NA - Not Applicable 2. Corrosion allowance minimum 1.6 mm. 3. HP-NT - Personal Protection 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE						
Tag No : GASASH2F				Piping Spec : 1CS12		
Size Range: 3/4", 1", 1.5"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #8 trim, RP,BB				Bonnet -Type : BOLTED		
Rating: #800				Speciality : LOW EMISSION		
End Connection : SW X SW				Operation : HAND WHEEL		
API Trim : 8				PORT : FULL PORT		
Temp Limit (°F) : 12 TO 350				Quantity : (3/4"- 6 NOS , 1"-45 NOS , 1.5"- 8 NOS)		
Description		Material				
Body		ASTM A 105				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		13% Cr.STEEL +STELLITE -6				
Back Seat		STELLITED (INTEGRAL)				
Wedge / Plug / Disk		ASTM A217 Gr CA15				
Bonnet /Cover		ASTM A105				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 1,2,3)				
Note: 1. NA - Not Applicable 2. Corrosion allowance minimum 1.6 mm. 3. HP-NT - Personal Protection 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT						
						Manual Valve 
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	Rev: 2

GATE VALVE						
Tag No : GAAARE1				Piping Spec : 1CS12		
Size Range: 2"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #8 trim, RP,BB				Bonnet -Type : BOLTED		
Rating: #800				Speciality : LOW EMISSION		
End Connection : Raised Faced Flange end as per B16.5				Operation : HAND WHEEL		
API Trim : 5				PORT : FULL PORT		
Temp Limit (°F) : 12 TO 350				Quantity : 6 NOS		
Description		Material				
Body		ASTM A 216 Gr. WCB				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		ASTM A105 + STELLITE-6				
Back Seat		NA				
Wedge / Plug / Disk		ASTM A 217 Gr. CA15 + STELLITE-6				
Bonnet /Cover		ASTM A 216 Gr. WCB				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 1,2,3)				
Note: 1. NA - Not Applicable 2. Corrosion allowance minimum 1.6 mm. 3. HP-NT - Personal Protection						
						Manual Valve
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	
						 Rev: 2


GATE VALVE						
Tag No : GASACE1				Piping Spec : 1CS13		
Size Range: 3/4" , 1"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #5 trim, RP, WB				Bonnet -Type : Bolted		
Rating: #800				Speciality : NA		
End Connection : SW X THRD (FNPT)				Operation : NA		
API Trim : 5				PORT : Reduced Port		
Temp Limit (°F) : 12 TO 350				Quantity : 3/4" - 11 NOS, 1" - 9 NOS		
Description		Material				
Body		ASTM A 105 N				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6				
Back Seat		STELLITE-6				
Wedge / Plug / Disk		ASTM A217 Gr CA15 + STELLITE-6				
Bonnet /Cover		ASTM A 105 N				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 5, 39, 40)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT						
						Manual Valve  Rev: 2
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	


GATE VALVE							
Tag No : GASASE2				Piping Spec : 1CS13			
Size Range: 3/4"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #5 trim, RP, WB				Bonnet -Type : Bolted			
Rating: #800				Speciality : NA			
End Connection : SW X SW (Socket Weld)				Operation : NA			
API Trim : 5				PORT : Reduced Port			
Temp Limit (°F) : 12 TO 350				Quantity : (3/4"- 11 Nos)			
Description		Material					
Body		ASTM A 105 N					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		13% Cr. STEEL + STELLITE-6					
Back Seat		STELLITE-6					
Wedge / Plug / Disk		ASTM A217 Gr CA15 + STELLITE-6					
Bonnet /Cover		ASTM A 105 N					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 41)					
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		


GATE VALVE						
Tag No : GASACH1F				Piping Spec : 1CS12		
Size Range: 1/2"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #8 trim, RP,WB				Bonnet -Type : BOLTED		
Rating: #800				Speciality : LOW EMISSION		
End Connection : SW X THRD (FNPT)				Operation : HAND WHEEL		
API Trim : 8				PORT : Reduced Port		
Temp Limit (°F) : 12 TO 350				Quantity : (1/2"- 18 Nos)		
Description		Material				
Body		ASTM A 105				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		13% Cr.STEEL +STELLITE -6				
Back Seat		STELLITED				
Wedge / Plug / Disk		ASTM A217 Gr CA15				
Bonnet /Cover		ASTM A105				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 28, 29)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT						
						Manual Valve
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	





Rev: 2


GATE VALVE							
Tag No : GAAARH1F (CSO)			Piping Spec : 1CS12				
Size Range: 2"			Insulation : HP-NT				
Design Specification							
Description : CS body w/API #8 trim, BB, FP			Bonnet -Type : Bolted				
Rating: #150			Speciality : Low Emission				
End Connection : Raised Faced Flange end as per B16.5			Operation : Hand Wheel				
API Trim : 8			PORT : Full Port				
Temp Limit (°F) : 12 TO 350			Quantity : 2 Nos				
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A217 Gr CA15 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 23)					
<p>Note:</p> <ol style="list-style-type: none"> 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. CSO - Car Seal Open 							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		
No.	By	Chk	App	Date	Revision		Rev: 2


GATE VALVE							
Tag No : GAAARH1F (CSO)				Piping Spec : 1CS12			
Size Range: 6"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #8 trim, BB, FP				Bonnet -Type : Bolted			
Rating: #150				Speciality : Low Emission			
End Connection : Raised Faced Flange end as per B16.5				Operation : Hand Wheel			
API Trim : 8				PORT : Full Port			
Temp Limit (°F) : 12 TO 350				Quantity : 1 Nos			
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A105 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr. WCB+13%Cr. FACING					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 24)					
<p>Note:</p> <ol style="list-style-type: none"> 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. CSO - Car Seal Open 							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		

GATE VALVE							
Tag No : GAAARH1F			Piping Spec : 1CS12				
Size Range: 2"			Insulation : HP-NT				
Design Specification							
Description : CS body w/API #8 trim, BB, FP			Bonnet -Type : Bolted				
Rating: #150			Speciality : Low Emission				
End Connection : Raised Faced Flange end as per B16.5			Operation : Hand Wheel				
API Trim : 8			PORT : Full Port				
Temp Limit (°F) : 12 TO 350			Quantity : 19 Nos				
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A217 Gr CA15 + STELLITE-6					
Back Seat		13% Cr. STEEL (BUSH)					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 30,31,32)					
<p>Note:</p> <p>1. HP-NT - Personal Protection</p> <p>2. NA - Not Applicable</p> <p>3. Corrosion allowance minimum 1.6 mm.</p> <p>4. CSO - Car Seal Open</p>							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		

GATE VALVE							
Tag No : GABARH1F				Piping Spec : 1CS12			
Size Range: 3"				Insulation : HP-NT			
Design Specification							
Description : CS body w/API #8 trim, RP,WB				Bonnet -Type : BOLTED			
Rating: #800				Speciality : LOW EMISSION			
End Connection : SW X THRD (FNPT)				Operation : HAND WHEEL			
API Trim : 8				PORT : Reduced Port			
Temp Limit (°F) : 12 TO 350				Quantity : (3"- 18 Nos)			
Description		Material					
Body		ASTM A 216 Gr. WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A 217 Gr. CA15 + STELLITE-6					
Back Seat		13% Cr Steel					
Wedge / Plug / Disk		ASTM A 217 Gr. CA15					
Bonnet /Cover		ASTM A 216 Gr. WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 33, 34)					
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing). 5. There is no Butt weld For RT							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		

GLOBE VALVE							
Tag No : GLAARH1F			Piping Spec : 1CS12				
Size Range: 2" , 3"			Insulation : HP-NT				
Design Specification							
Description : CS body w/API #8 trim,BB			Bonnet -Type : BOLTED				
Rating: #150			Speciality : LOW EMISSION				
End Connection : Raised Faced Flange end as per B16.5			Operation : HAND WHEEL				
API Trim : 8			PORT : NA				
Temp Limit (°F) : 12 TO 350			Quantity : (2"- 2 NOS , 3"- 2 NOS)				
Description		Material					
Body		ASTM A 216 Gr.WCB					
Stem (No casting)		13% Cr Steel					
Seat / Seat Ring		ASTM A 216 Gr .WCB+STELLITE-6					
Back Seat		STELLITE-6 (INTEGRAL)					
Wedge / Plug / Disk		ASTM A217 Gr CA15					
Bonnet /Cover		ASTM A 216 Gr.WCB					
Gasket		SPW SS316+ Graphite					
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H					
Gland Packing		PTFE					
Others		-					
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No -15, 16)					
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm.							
						Manual Valve	
2	RP	PK	RR	26-04-2024	Issued for Approval		
1	RP	PK	RR	10-04-2024	Issued for Approval		
0	RP	PK	RR	27-06-2023	Issued for Approval		Rev: 2
No.	By	Chk	App	Date	Revision		

GLOBE VALVE						
Tag No : GLAARH2F				Piping Spec : 1CS12		
Size Range: 6", 8"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #8 trim,BB,GO				Bonnet -Type : BOLTED		
Rating: #150				Speciality : LOW EMISSION		
End Connection : RF- Flangeend as per B16.5				Operation : GEAR OPERATION		
API Trim : 8				PORT : NA		
Temp Limit (°F) : 12 TO 350				Quantity : (6"- 3 NOS , 8"- 1 NOS)		
Description		Material				
Body		ASTM A 216 Gr.WCB				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		ASTM A 216 Gr .WCB+STELLITE-6				
Back Seat		STELLITE-6 (INTEGRAL)				
Wedge / Plug / Disk		ASTM A 216 Gr. WCB+13% Cr. FACING				
Bonnet /Cover		ASTM A 216 Gr.WCB				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No -17, 18)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. CSO - Car Seal Open						
						Manual Valve  Rev: 2
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	

GLOBE VALVE						
Tag No : GLAARH2F (CSO)				Piping Spec : 1CS12		
Size Range: 6"				Insulation : HP-NT		
Design Specification						
Description : CS body w/API #8 trim,BB,GO				Bonnet -Type : BOLTED		
Rating: #150				Speciality : LOW EMISSION		
End Connection : RF- Flangeend as per B16.5				Operation : GEAR OPERATION		
API Trim : 8				PORT : NA		
Temp Limit (°F) : 12 TO 350				Quantity : (6"- 1 NOS)		
Description		Material				
Body		ASTM A 216 Gr.WCB				
Stem (No casting)		13% Cr Steel				
Seat / Seat Ring		ASTM A 216 Gr .WCB+STELLITE-6				
Back Seat		STELLITE-6 (INTEGRAL)				
Wedge / Plug / Disk		ASTM A 216 Gr. WCB+13% Cr. FACING				
Bonnet /Cover		ASTM A 216 Gr.WCB				
Gasket		SPW SS316+ Graphite				
Body Stud Bolt/Nut		A193 Gr. B7, A194 Gr. 2H				
Gland Packing		PTFE				
Others		-				
Refer GA Dwg		C25-10-JKVN-215A-201-A-DGN-242 (Page No - 27)				
Note: 1. HP-NT - Personal Protection 2. NA - Not Applicable 3. Corrosion allowance minimum 1.6 mm. 4. CSO - Car Seal Open						
						Manual Valve  Rev: 2
2	RP	PK	RR	26-04-2024	Issued for Approval	
1	RP	PK	RR	10-04-2024	Issued for Approval	
0	RP	PK	RR	27-06-2023	Issued for Approval	
No.	By	Chk	App	Date	Revision	