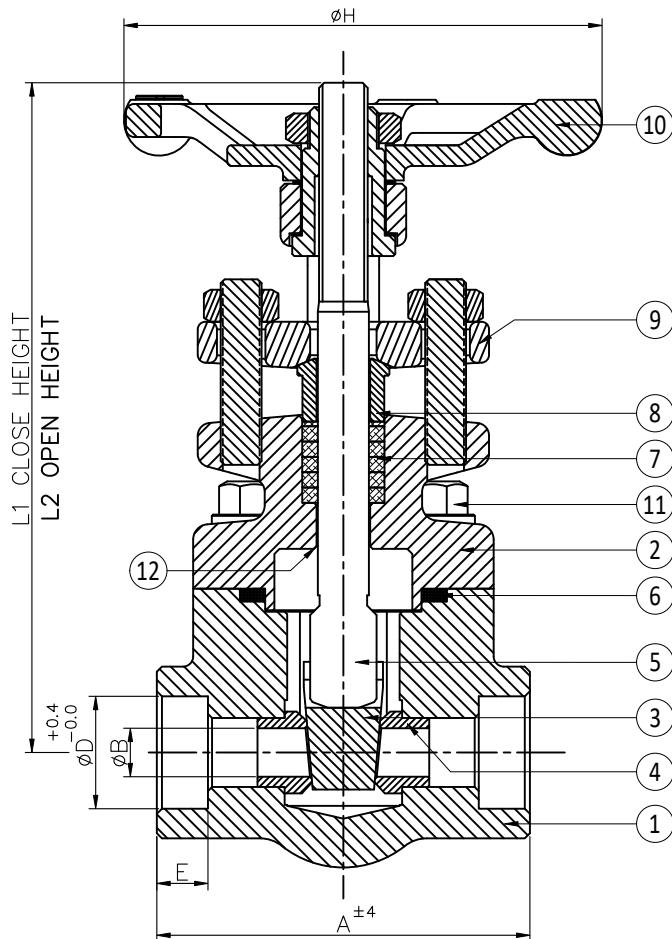


SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
3/4"	106(4-2/16")	17(10/16")	27.2(1-1/16")	12.5(7/16")	116(4-9/16")	163(6-6/16")	184(7-3/16")	3.15(6.94)



MANUFACTURER'S



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PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE.
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. FUGITIVE EMISSION TEST (FET).
13. PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
14. CORROSION ALLOWANCE REQUIRED 1.6 MM
15. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730). 1

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
15	3/4"	GASASH2F	LOW EMISSION FET	3

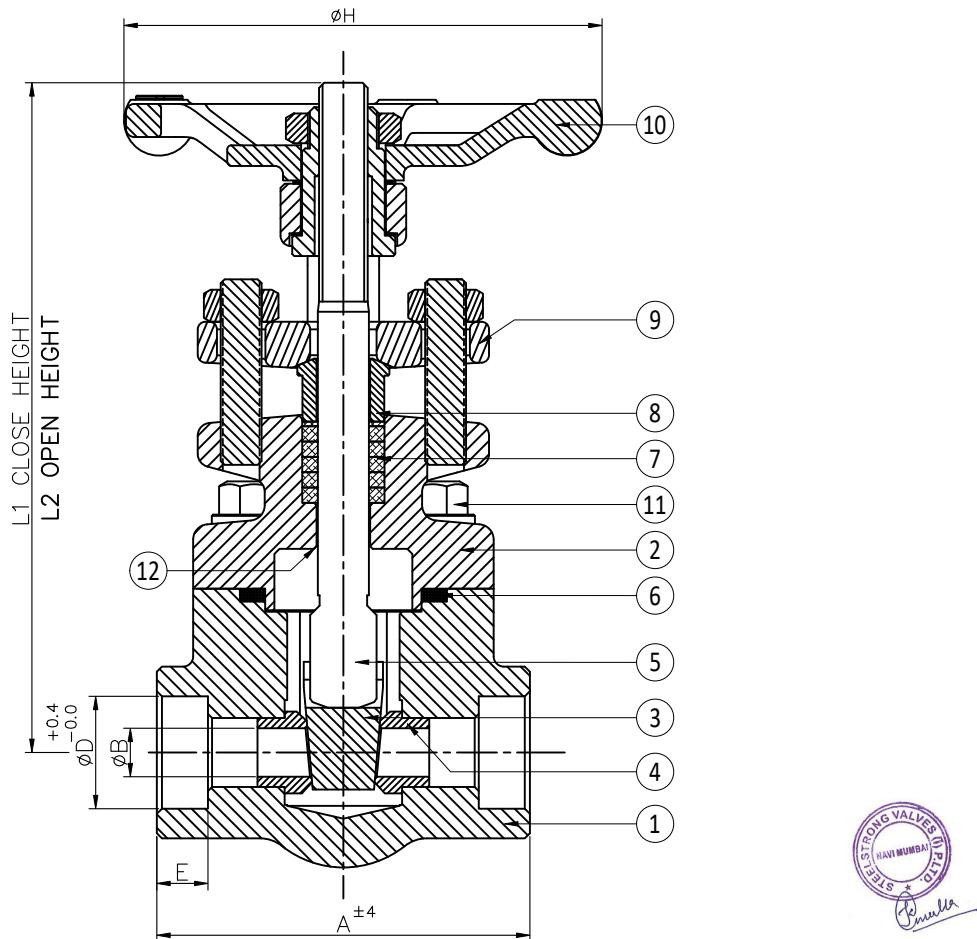
TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).	
2. There is no Butt weld For RT	

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
1"	127(5")	22(13/16")	33.9(1-5/16")	12.5(7/16")	150(5-14/16")	205(8-1/16")	238(9-5/16")	6.25(13.77)



MANUFACTURER'S

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PO NO.: PO/23-24/136, PO-622
DATE:- 31.05.2023

WO NO.: SODS23046
DATE:- 07.06.2023



DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE.
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. FUGITIVE EMISSION TEST (FET).
13. PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
14. CORROSION ALLOWANCE REQUIRED 1.6 MM
15. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
16	1"	GASASH2F	LOW EMISSION FET	45

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %. Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD



VENDOR NAME	SIEMENS energy
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PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10	10-X-2400
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EQUIPMENT NAME / ITEM TAG NO.

DOCUMENT TITLE

COMPANY DWG. NO.

CONTRACTOR DWG. NO.

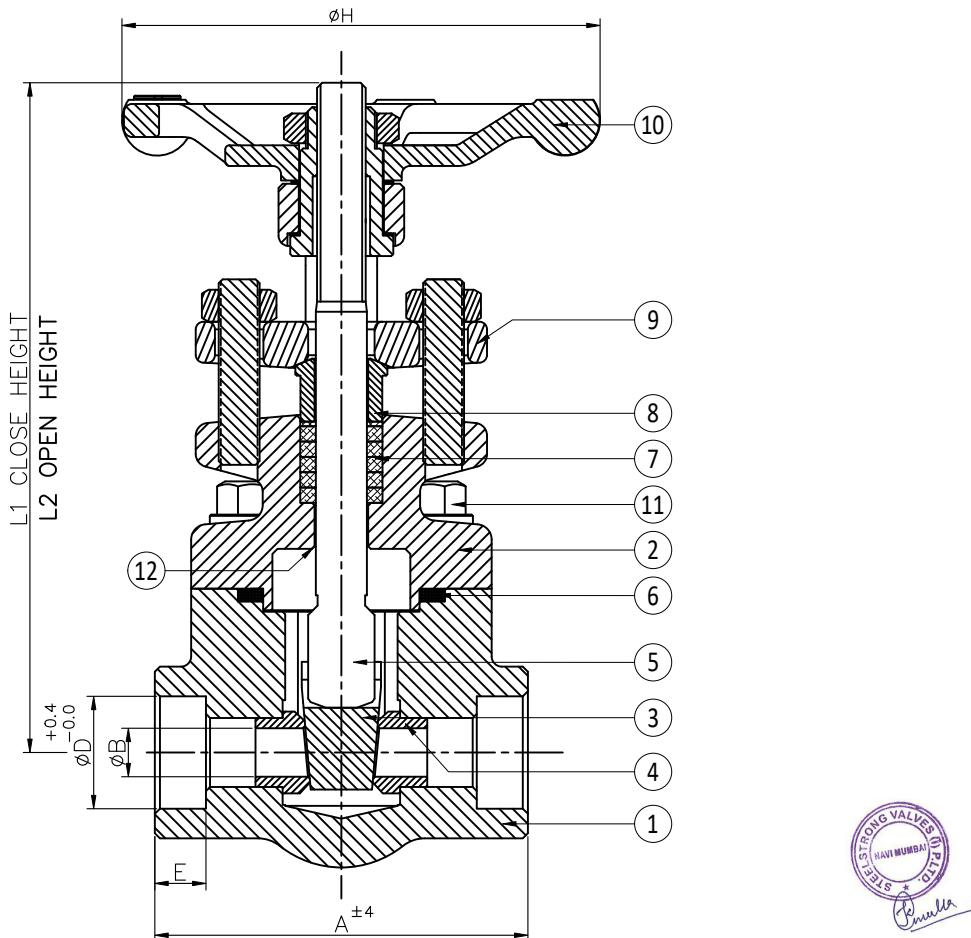
SCALE

DWG. NO.

SIZE

D REV.

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
1 1/2 "	142(5-9/16")	35(1-6/16")	48.8(1-14/16")	12.5(7/16")	150(5-14/16")	236(9-4/16")	282(11-1/16")	10.4(22.92)



MANUFACTURER'S



www.steelstrong.com

PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE.
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. FUGITIVE EMISSION TEST (FET).
13. PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
14. CORROSION ALLOWANCE REQUIRED 1.6 MM
15. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO.	SPECIALTY	QTY
17	1 1/2 "	GASASH2F	LOW EMISSION FET	8

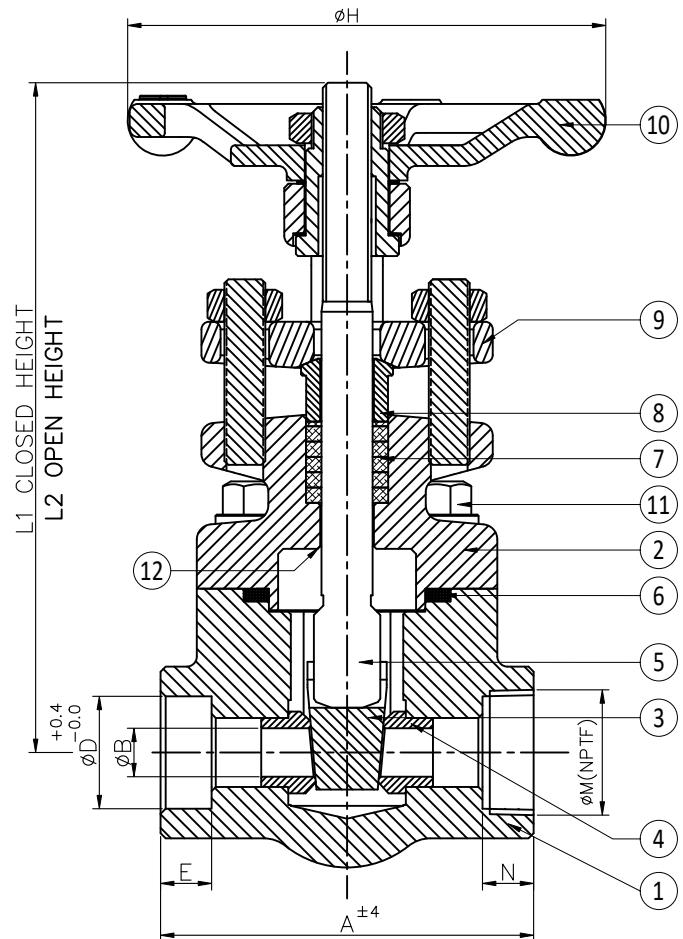
TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).	
2. There is no Butt weld For RT	

SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1"	105(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	116(4-9/16")	165(6-7/16")	186(7-5/16")	1"	17.3(10/16")	5(11.02)



MANUFACTURER'S

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PO NO.: PO/23-24/136

DATE:- 31.05.2023

WO NO.: SODS23046

DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : STANDARD
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. FUGITIVE EMISSION TEST (FET).
13. PROCESS MEDIA-STEAM/CONDENSATE PROCESS WATER
14. CORROSION ALLOWANCE REQUIRED 1.6 MM
15. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
14	1"	GASACH1F	LOW EMISSION FET	127

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:
 1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
	REV	DATE	DESCRIPTION	PREPD	CHKD APPD



SIEMENS
energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400

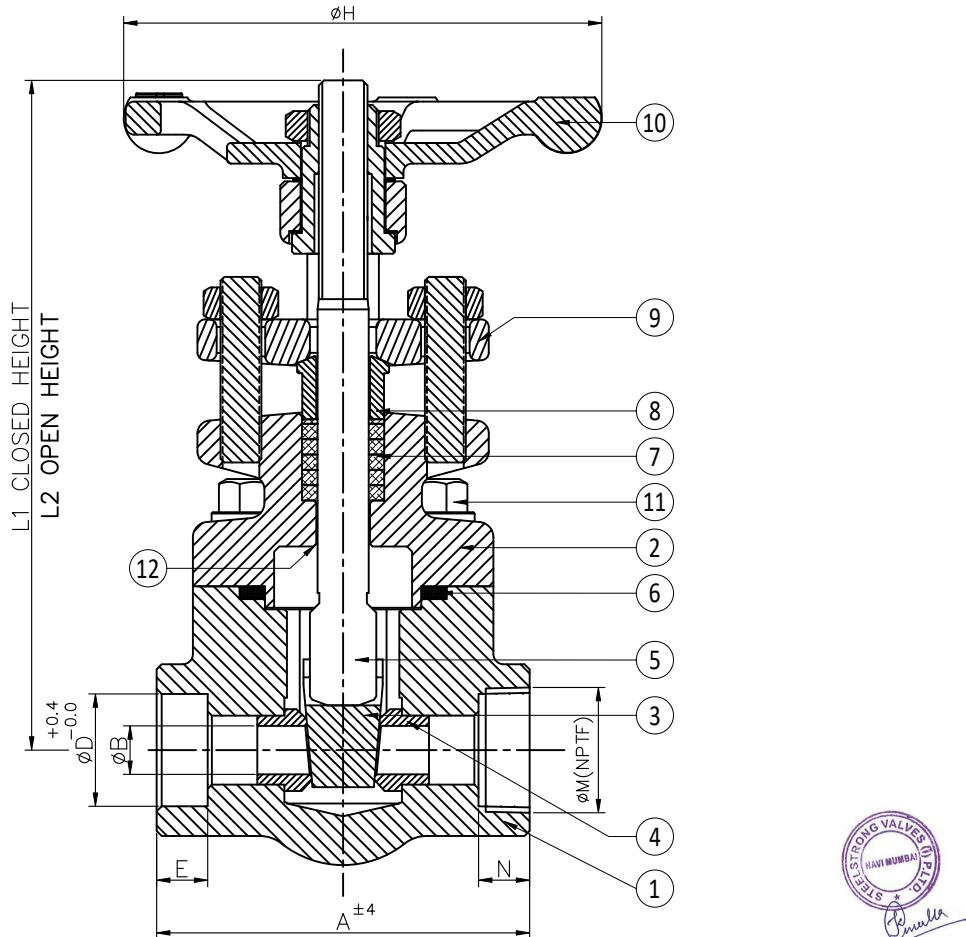
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1"	105(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	116(4-9/16")	165(6-7/16")	186(7-5/16")	1"	17.3(10/16")	5(11.02)



MANUFACTURER'S



www.steelstrong.com

PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 602 (Edition 2022) .
- FACE TO FACE : AS PER MANUFACTURER'S STD.
- END CONNECTION : SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
- TESTING STANDARD : API 598 (Edition 2016) .
- TYPE OF BONNET : BOLTED
- TYPE OF WEDGE : SOLID
- TYPE OF SEATRING : RENEWABLE
- TYPE OF BORE : STANDARD
- PROCESS MEDIA : STEAM/CONDENSATE
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-5.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
13	1"	GASACE1	---	3

TEST STANDARD.: API 598

TEST PRESSURE (800#)	PSIG	Kg/cm ² g
HYDRO	SHELL	2975
	SEAT & BACK SEAT	2175
PNEUMATIC	SEAT	80
		6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %. Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD



PURCHASER JOB CODE : 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

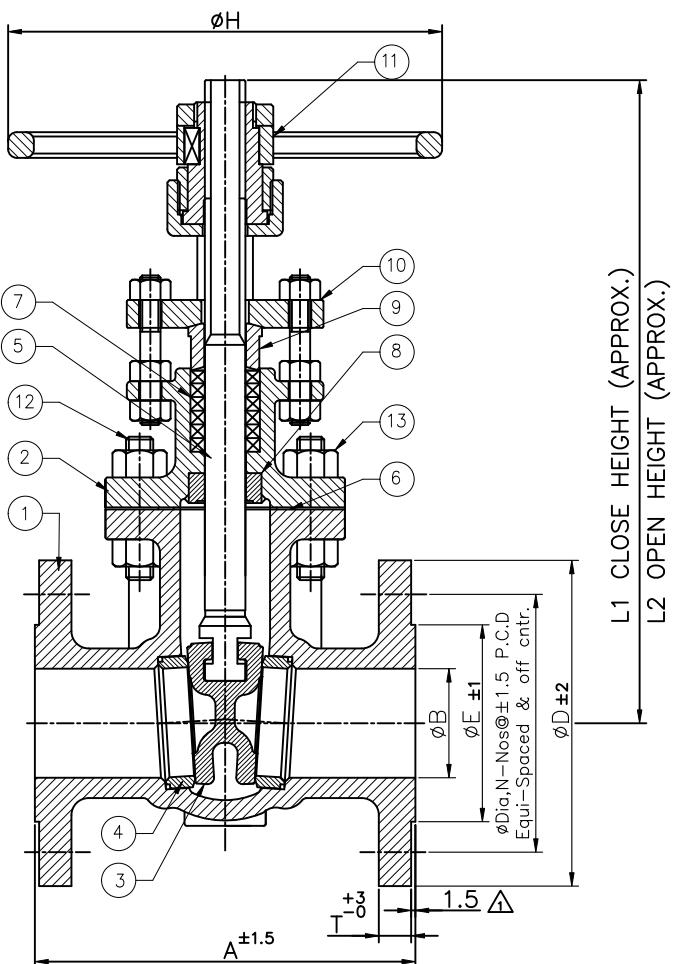
ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE
DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos	
2"	178(7")	50.8(2")	150(5-14/16")	92.1(3-10/16")	203(7-15/16")	301(11-13/16")	361(14-3/16")	14.3(9/16")	120.7(4-12/16")	19.0(11/16")	4	21(46.29)



MANUFACTURER'S

www.steelstrong.com

PO NO.: PO/23-24/136
DATE:- 31.05.2023

WO NO.: SODS23046
DATE:- 07.06.2023



DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- PROCESS MEDIA :STEAM/CONDENSATE, PROCESS WATER
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-5.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
5	2"	GAAARE1	----	6

TEST STANDARD.: API 598

TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	
3	26.04.2024 FC OP KGM KGM
2	09.04.2024 FC OP KGM KGM
1	03.10.2023 IFA OP KGM KGM
0	13.06.2023 IFA ARS KGM KGM
REV.	DATE
REV.	DESCRIPTION
PREPD	CHKD APPD
GOLDEN TRIANGLE POLYMERS COMPANY LTD. JKJV GTPP	
VENDOR NAME	
SIEMENS ENERGY	
PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A
Golden Triangle Polymers Company LLC	
Golden Triangle Polymers Project	
ETHYLENE UNIT - 10	
EQUIPMENT NAME / ITEM TAG NO.	10-X-2400
DOCUMENT TITLE	DETAIL DRAWING OF VALVES (MANUAL)
COMPANY DWG. NO.	D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO.	V-215A-201-A-DGN-242
SCALE	NONE
DWG. NO.	SEI-DGN-242
SIZE	D
REV.	3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
2"	178(7")	50.8(2")	150(5-14/16")	92.1(3-10/16")	203(7-15/16")	301(11-13/16")	361(14-3/16")	14.3(9/16")	120.7(4-12/16")	19.0(11/16")	4	21(46.29)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
6	2"	GAARH1F	LOW EMISSION FET	30

TEST STANDARD.: API 598

TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1			
10	GLAND FLANGE	ASTM A 105N		1			
9	GLAND BUSH	13% Cr. STEEL		1			
8	BACKSEAT BUSH	13% Cr. STEEL		1			
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1			
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1			
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2				
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15		1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1			
1	BODY	ASTM A 216 Gr. WCB		1			
Sr.No.	PART NAME	MATERIAL	QTY.				

VENDOR NAME: **SIEMENS energy**

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

Ethylen Unit - 10

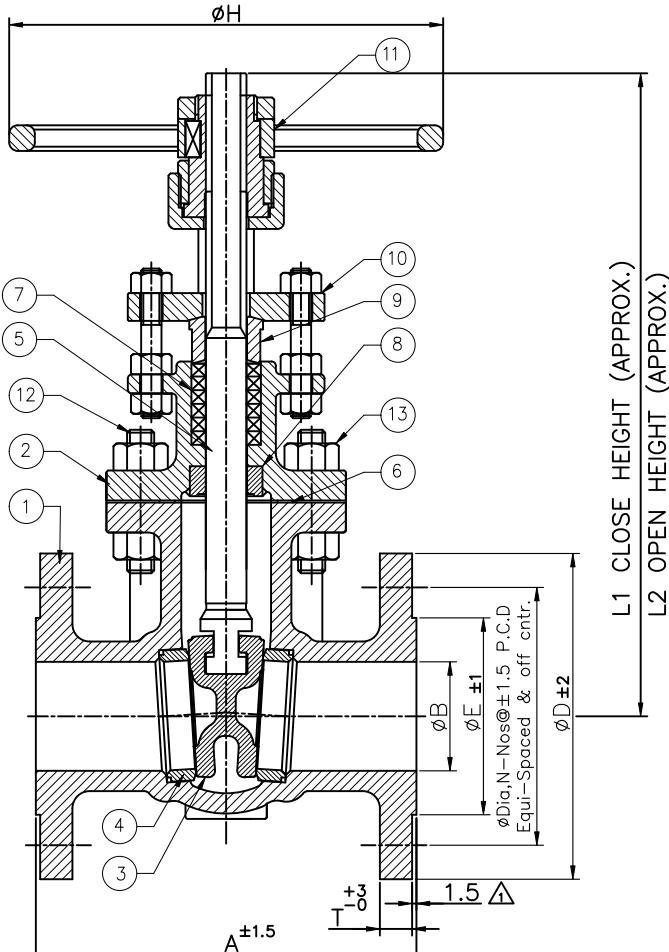
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3



MANUFACTURER'S

PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
3"	203(7-15/16")	76.2(3")	190(7-7/16")	127.0(5")	254(10")	387(15-3/16")	472(18-9/16")	17.5(11/16")	152.4(6")	19.0(11/16")	4	35(77.16)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE ,PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

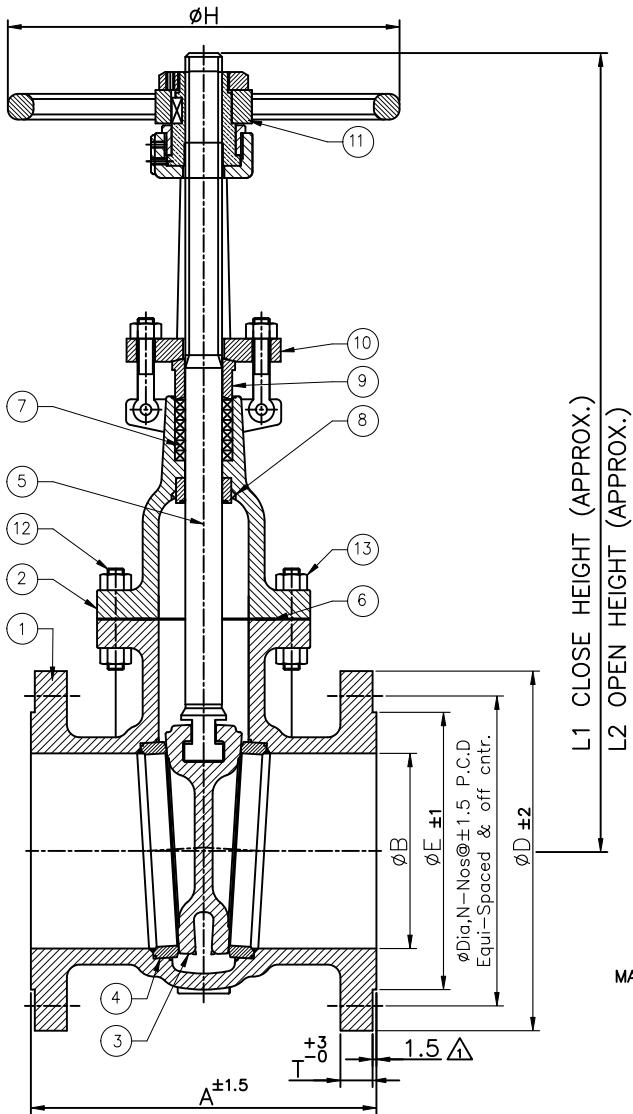
PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
7	3"	GAARH1F	LOW EMISSION FET	19

TEST STANDARD.: API 598

HYDRO	TEST PRESSURE (150#)	PSIG	Kg/cm ² g
	SHELL	450	32
SEAT & BACK SEAT	325	23	
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1			
10	GLAND FLANGE	ASTM A 105N		1			
9	GLAND BUSH	13% Cr. STEEL		1			
8	BACKSEAT BUSH	13% Cr. STEEL		1			
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1			
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1			
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6		2			
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15		1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1			
1	BODY	ASTM A 216 Gr. WCB		1			
Sr.No.	PART NAME	MATERIAL	QTY.				

 
SIEMENS energy
 PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A
 Golden Triangle Polymers Company LLC Golden Triangle Polymers Project
 ETHYLENE UNIT - 10 EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
 DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)
 COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
 CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE
 DWG. NO: SEI-DGN-242 SIZE: D REV: 3



www.steelstrong.com

PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

SIZE	A	ϕB	ϕD	ϕE	ϕH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
4"	229(9")	101.6(4")	230(9")	157.2(6-3/16")	254(10")	470(18-8/16")	585(23")	22.3(14/16")	190.5(7-7/16")	19.0(11/16")	8	58(127.86)

DESIGN FEATURES & SPECIFICATION :

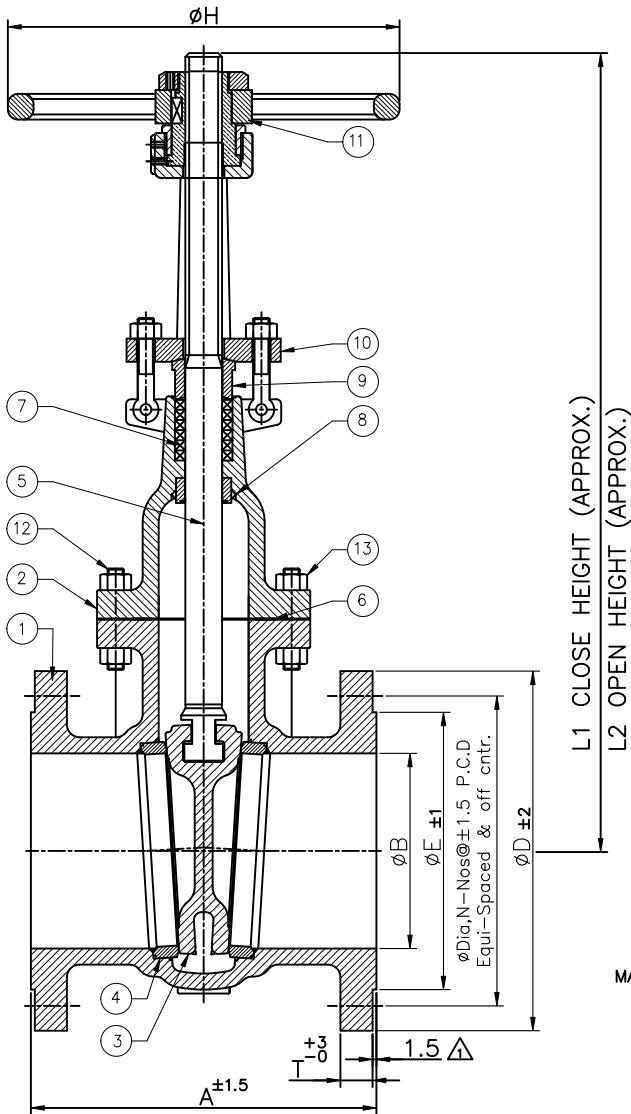
- MANUFACTURING STD. : API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
8	4"	GAAARH1F	LOW EMISSION FET	5

TEST STANDARD.: API 598

HYDRO	TEST PRESSURE (150#)	PSIG	Kg/cm ² g
	SHELL	450	32
SEAT & BACK SEAT	325	23	
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.	3	26.04.2024	FC	OP	KGM	KGM	
12	BODY STUD	ASTM A 193 Gr. B7	REQ.	2	09.04.2024	FC	OP	KGM	KGM	
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1	1	03.10.2023	IFA	OP	KGM	KGM
10	GLAND FLANGE	ASTM A 105N		1	0	13.06.2023	IFA	ARS	KGM	KGM
9	GLAND BUSH	13% Cr. STEEL		1						
8	BACKSEAT BUSH	13% Cr. STEEL		1						
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.							
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1						
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1						
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2							
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15		1						
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1						
1	BODY	ASTM A 216 Gr. WCB		1						
Sr.No.	PART NAME	MATERIAL	QTY.	DWG. NO.	SEI-DGN-242	SIZE D	REV. 3			



www.steelstrong.com

PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023



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REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -



VENDOR NAME
SIEMENS energy

PURCHASER JOB CODE 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400

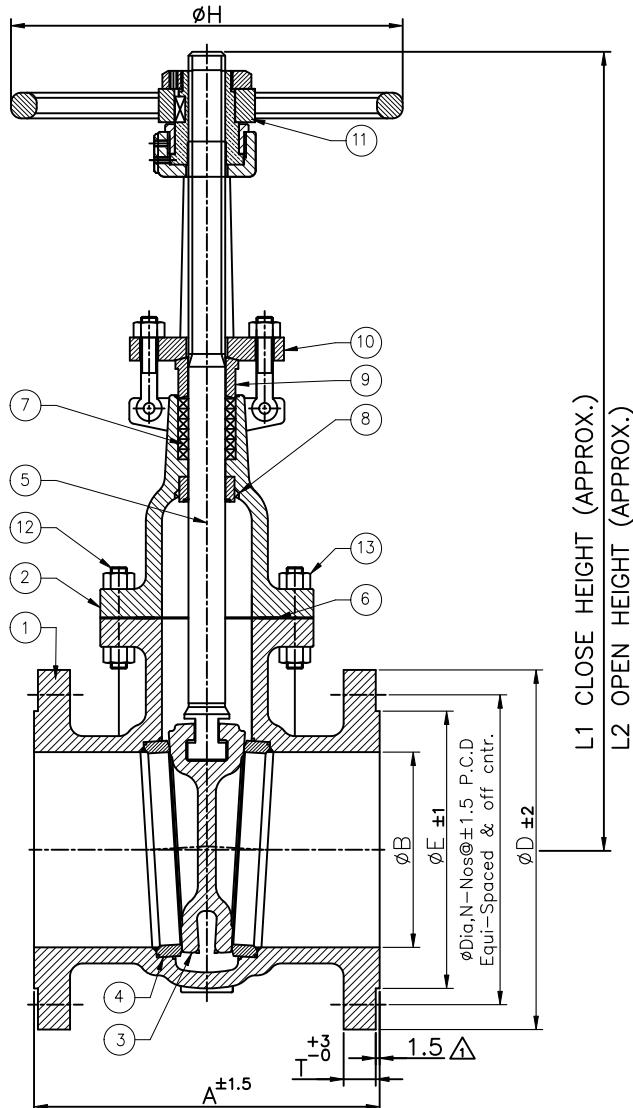
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
6"	267(10-8/16")	152.4(6")	280(11")	215.9(8-7/16")	305(12")	621(24-7/16")	784(30-13/16")	23.9(15/16")	241.3(9-8/16")	22.2(13/16")	8	98(216.05)



MANUFACTURER'S

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PO NO.: PO/23-24/136
 DATE:- 31.05.2023
 WO NO.: SODS23046
 DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
9	6"	GAAARH1F	LOW EMISSION FET	18

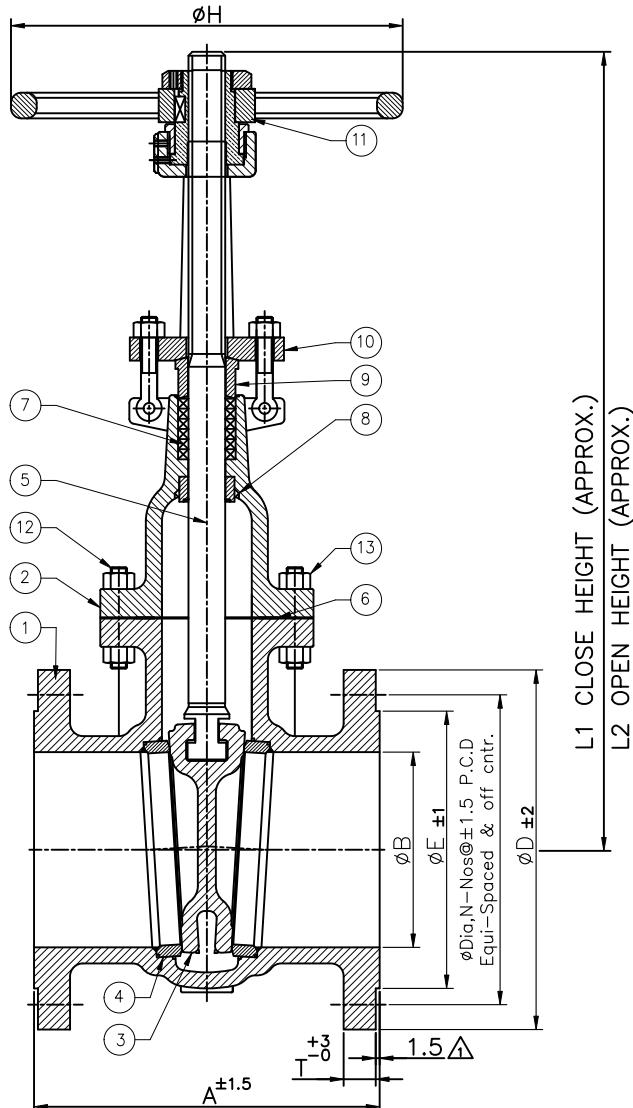
TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450 32
	SEAT & BACK SEAT	325 23
PNEUMATIC	SEAT	80 6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1			
10	GLAND FLANGE	ASTM A 105N		1			
9	GLAND BUSH	13% Cr. STEEL		1			
8	BACKSEAT BUSH	13% Cr. STEEL		1			
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1			
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1			
4	SEAT RING (RENEWABLE)	ASTM A 105+STELLITE-6	2				
3	WEDGE (FLEXIBLE)	ASTM A 216 Gr. WCB+13% Cr.FACING		1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1			
1	BODY	ASTM A 216 Gr. WCB		1			
Sr.No.	PART NAME	MATERIAL					
QTY.							


SIEMENS energy
 PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A
 Golden Triangle Polymers Company LLC Golden Triangle Polymers Project
 ETHYLENE UNIT - 10
 EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
 DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)
 COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
 CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE
 DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
8"	292(11-7/16")	203.2(8")	345(13-9/16")	269.9(10-10/16")	354(13-14/16")	768(30-3/16")	980(38-9/16")	27.0(1-1/16")	298.5(11-12/16")	22.2(13/16")	8	147(324.07)



MANUFACTURER'S
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PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 600 (Edition 2021) .
- FACE TO FACE : AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION : FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD : API 598 (Edition 2016) .
- TYPE OF BONNET : BOLTED
- TYPE OF WEDGE : FLEXIBLE
- TYPE OF SEATRING : RENEWABLE
- TYPE OF STEM : RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
10	8"	GAAARH1F	LOW EMISSION FET	20

TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450 32
	SEAT & BACK SEAT	325 23
PNEUMATIC	SEAT	80 6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1			
10	GLAND FLANGE	ASTM A 105N		1			
9	GLAND BUSH	13% Cr. STEEL		1			
8	BACKSEAT BUSH	13% Cr. STEEL		1			
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1			
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1			
4	SEAT RING (RENEWABLE)	ASTM A 105+ STELLITE-6	2				
3	WEDGE (FLEXIBLE)	ASTM A 216 Gr. WCB+13% Cr.FACING		1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1			
1	BODY	ASTM A 216 Gr. WCB		1			
Sr.No.	PART NAME	MATERIAL	QTY.				

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
			REV.	DATE	DESCRIPTION
			PREPD	CHKD	APPD



SIEMENS
energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

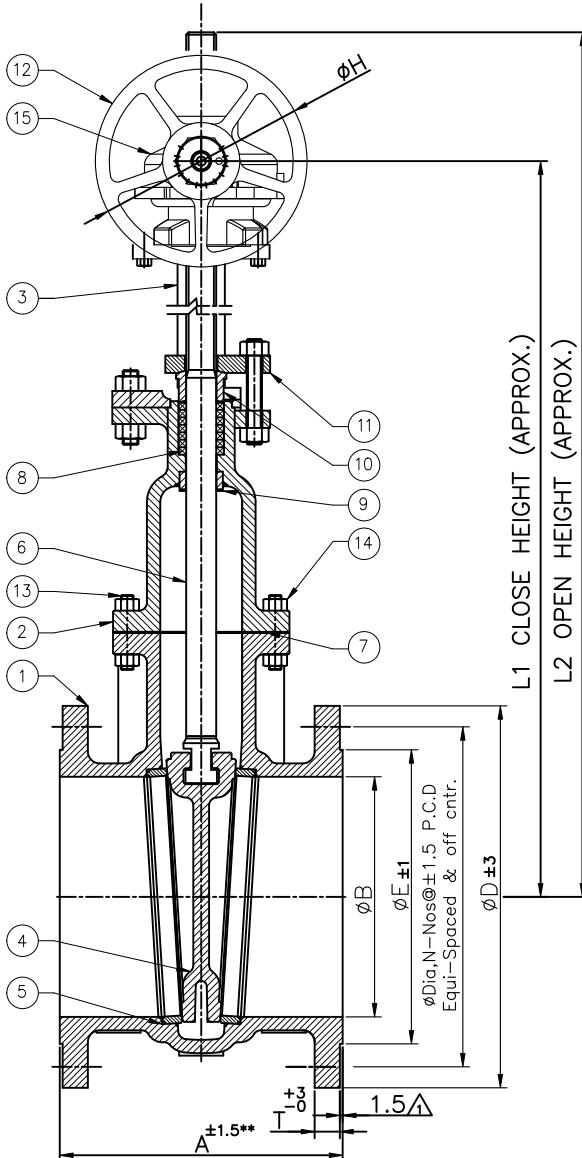
SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND	DESIGN FEATURES & SPECIFICATION :	REFERENCE DRAWINGS																																		
									P.C.D	DIA.	Nos.			DWG. NO.	DESCRIPTION																																	
10"	330(12-15/16")	254(10")	405(15-15/16")	323.8(12-11/16")	457(17-15/16")	900(35-6/16")	1160(45-10/16")	28.6(1-2/16")	362(14-4/16")	25.4(1")	12	253(557.7)																																				
<p>Technical cross-sectional diagram of the valve assembly. Key dimensions include: - Overall width: A = 330 (12-15/16") - Flange diameter: ØB = 254 (10") - Valve body diameter: ØD = 405 (15-15/16") - Valve body height: ØH = 323.8 (12-11/16") - Total stem height: L1 = 900 (35-6/16") - Stem height from base: L2 = 1160 (45-10/16") - Handwheel diameter: T = 28.6 (1-2/16") - Other dimensions: ØE, ØB, ØD, ØH, L1, L2, T, and part numbers 1 through 15.</p>																																																
DESIGN FEATURES & SPECIFICATION : <ol style="list-style-type: none"> MANUFACTURING STD. : API 600 (Edition 2021) . FACE TO FACE :AS PER ASME B16.10 (Edition 2017) . END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH) TESTING STANDARD :API 598 (Edition 2016) . TYPE OF BONNET :BOLTED TYPE OF WEDGE :FLEXIBLE TYPE OF SEATRING :RENEWABLE TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE) VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY. OPERATING TEMP : 12°F TO 350°F ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. API TRIM-8. FUGITIVE EMISSION TEST (FET). ** FACE TO FACE TOLERANCE SHALL BE ± 3MM FOR 12" & ABOVE PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER CORROSION ALLOWANCE REQUIRED 1.6 MM FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730). 																																																
<table border="1"> <thead> <tr> <th>PO SR NO.</th> <th>SIZE</th> <th>TAG NO.</th> <th>SPECIALITY</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>10"</td> <td>GAAARH2F</td> <td>LOW EMISSION FET</td> <td>3</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">TEST STANDARD.: API 598</th> </tr> <tr> <th>TEST PRESSURE (150#)</th> <th>PSIG</th> <th>Kg/cm²g</th> </tr> </thead> <tbody> <tr> <td rowspan="2">HYDRO</td> <td>SHELL</td> <td>450</td> <td>32</td> </tr> <tr> <td>SEAT & BACK SEAT</td> <td>325</td> <td>23</td> </tr> <tr> <td>PNEUMATIC</td> <td>SEAT</td> <td>80</td> <td>6</td> </tr> </tbody> </table>															PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY	11	10"	GAAARH2F	LOW EMISSION FET	3	TEST STANDARD.: API 598			TEST PRESSURE (150#)	PSIG	Kg/cm ² g	HYDRO	SHELL	450	32	SEAT & BACK SEAT	325	23	PNEUMATIC	SEAT	80	6							
PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY																																												
11	10"	GAAARH2F	LOW EMISSION FET	3																																												
TEST STANDARD.: API 598																																																
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<table border="1"> <thead> <tr> <th>3</th> <th>26.04.2024</th> <th>FC</th> <th>OP</th> <th>KGM</th> <th>KGM</th> </tr> <tr> <th>2</th> <th>09.04.2024</th> <th>FC</th> <th>OP</th> <th>KGM</th> <th>KGM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03.10.2023</td> <td>IFA</td> <td>OP</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>0</td> <td>13.06.2023</td> <td>IFA</td> <td>ARS</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> <td>PREPD</td> <td>CHKD</td> <td>APPD</td> </tr> </tbody> </table> SIEMENS energy <table border="1"> <thead> <tr> <th>PURCHASER JOB CODE</th> <th>PURCHASE ORDER NO.</th> </tr> </thead> <tbody> <tr> <td>0-8936-2</td> <td>P-215A-201-A</td> </tr> </tbody> </table> <p>Golden Triangle Polymers Company LLC Golden Triangle Polymers Project</p> <p>ETHYLENE UNIT - 10</p> <p>DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)</p> <p>COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242</p> <p>CONTRACTOR DWG. NO: V-215A-201-A-DGN-242</p> <p>SCALE: NONE</p> <p>DWG. NO: SEI-DGN-242</p> <p>SIZE: D</p> <p>REV: 3</p>															3	26.04.2024	FC	OP	KGM	KGM	2	09.04.2024	FC	OP	KGM	KGM	1	03.10.2023	IFA	OP	KGM	KGM	0	13.06.2023	IFA	ARS	KGM	KGM	REV	DATE	DESCRIPTION	PREPD	CHKD	APPD	PURCHASER JOB CODE	PURCHASE ORDER NO.	0-8936-2	P-215A-201-A
3	26.04.2024	FC	OP	KGM	KGM																																											
2	09.04.2024	FC	OP	KGM	KGM																																											
1	03.10.2023	IFA	OP	KGM	KGM																																											
0	13.06.2023	IFA	ARS	KGM	KGM																																											
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD																																											
PURCHASER JOB CODE	PURCHASE ORDER NO.																																															
0-8936-2	P-215A-201-A																																															
<p>MANUFACTURER'S</p> <p>www.steelstrong.com</p> <p>PO NO.: PO/23-24/136 DATE:- 31.05.2023</p> <p>WO NO.: SODS23046 DATE:- 07.06.2023</p> <p>Sr.No. PART NAME MATERIAL QTY.</p>																																																

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SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
12"	356(14")	304.8(12")	485(19-1/16")	381.0(15")	457(17-15/16")	1105(43-8/16")	1422(55-15/16")	30.2(1-3/16")	431.8(17")	25.4(1")	12	387(853.1)



MANUFACTURER'S
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PO NO.: PO/23-24/136
 DATE:- 31.05.2023
 WO NO.: SODS23046
 DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, 150#, (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- ** FACE TO FACE TOLERANCE SHALL BE ± 3 MM FOR 12" & ABOVE
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
12	12"	GAAARH2F	LOW EMISSION FET	4

TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450 32
	SEAT & BACK SEAT	325 23
PNEUMATIC	SEAT	80 6

15	GEAR BOX	SSV MAKE	1				
14	YOKE STUD & NUT	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	REQ				
13.	BODY STUD & NUT	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	REQ				
12	HANDWHEEL (NON RISING)	DUCTILE IRON	1				
11	GLAND FLANGE	ASTM A 105N	1				
10	GLAND BUSH	13% Cr. STEEL	1				
9	BACKSEAT BUSH	13% Cr. STEEL	1				
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ				
7	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1				
6	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1				
5	SEAT RING (RENEWABLE)	ASTM A105+STELLITE-6	2				
4	WEDGE (FLEXIBLE)	ASTM A 216 Gr.WCB+13% Cr.FACING	1				
3	YOKE	ASTM A 216 Gr.WCB					
2	BONNET (BOLTED)	ASTM A 216 Gr.WCB	1				
1	BODY	ASTM A 216 Gr.WCB	1				
Sr.No.	PART NAME	MATERIAL	QTY.				

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -



PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

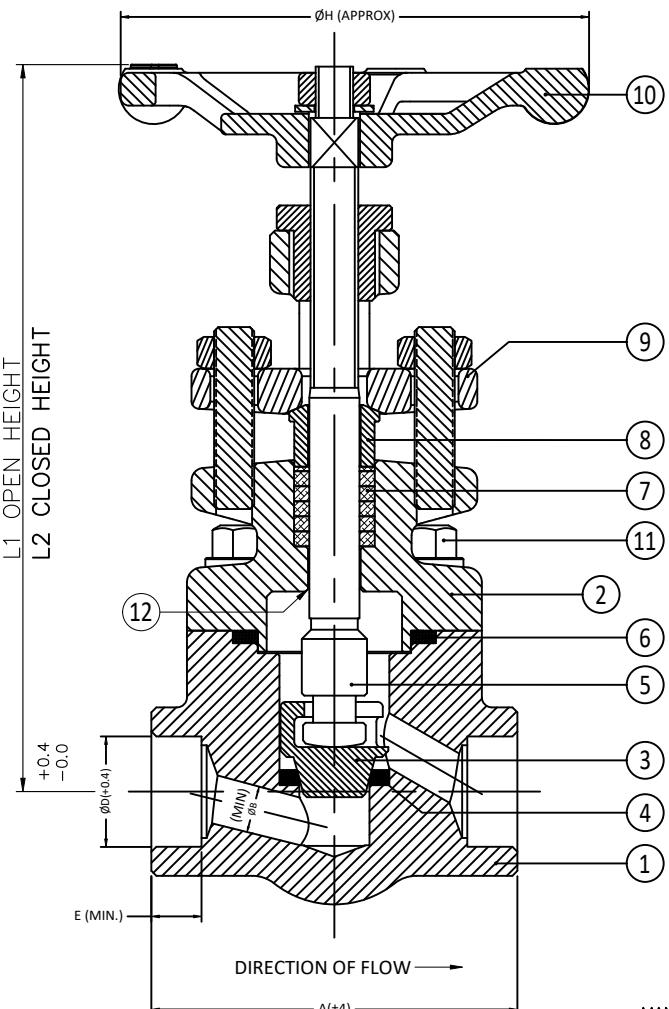
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10 EQUIPMENT NAME / ITEM TAG NO: 10-X-2400 DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242 CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
1"	105(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	116(4-9/16")	163(6-6/16")	184(7-3/16")	5(11.02)



PO NO.: PO/23-24/136
DATE:- 31.05.2023

WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 602 (Edition 2022) .
- FACE TO FACE : AS PER MANUFACTURER'S STD.
- END CONNECTION : SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
- TESTING STANDARD : API 598 (Edition 2016) .
- TYPE OF BONNET : BOLTED
- TYPE OF DISC : SWIVEL PLUG TYPE
- TYPE OF SEATRING : INTEGRAL
- TYPE OF STEM : RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- TYPE OF BORE : STANDARD
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
22	1"	GLSASH1F	LOW EMISSION	4

TEST STANDARD.: API 598			
TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-				
11	BODY BOLT	ASTM A 193 Gr. B7	REQ				
10	HANDWHEEL (RISING)	MALLEABLE IRON	1				
9	GLAND FLANGE	ASTM A 105N	1				
8	GLAND BUSH	13% Cr. STEEL	1				
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ				
6	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1				
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1				
4	SEAT RING (INTEGRAL)	ASTM A 105+STELLITE 6	2				
3	PLUG	ASTM A 217 Gr. CA15	1				
2	BONNET (BOLTED)	ASTM A 105N	1				
1	BODY	ASTM A 105N	1				
Sr.No.	PART NAME	MATERIAL	QTY				

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %. Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
		REV DATE	DESCRIPTION	PREPD	CHKD APPD



SIEMENS energy
PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

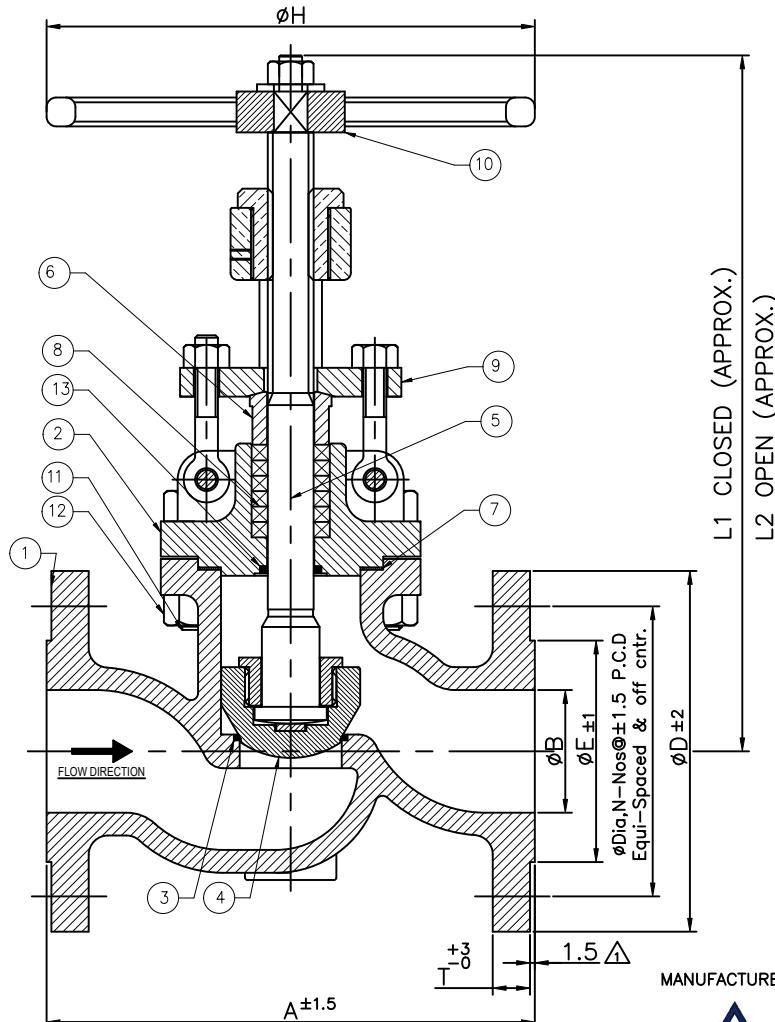
Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project
ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

SCALE: NONE
DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									19	19	Nos.	
2"	203 (7-15/16")	51(2")	150 (5-14/16")	92.1(3-10/16")	203 (7-15/16")	268 (10-8/16")	287 (11-4/16")	14.3 (9/16")	120.7 (4-12/16")	19.0 (11/16")	4	26 (57.3)



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PO NO.: PO/23-24/136
DATE:- 31.05.2023

WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :BS 1873 (Edition 2018) .
- FACE TO FACE :AS PER ASME B16.10 (EDITION 2017)
- END CONNECTION :FLANGED END AS PER ASME B16.5 ,150# (RF 125 AARH) (EDITION 2017)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF DISC :SWIVEL PLUG TYPE
- TYPE OF SEATRING :INTEGRAL
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
18	2"	GLAARH1F	LOW EMISSION FET	2

TEST STANDARD.: API 598

TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BACK SEAT (INTEGRAL)	STELLITE-6	-
12	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
11	BODY STUD	ASTM A 193 Gr. B7	REQ.
10	HANDWHEEL (RISING)	DUCTILE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
7	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1
6	GLAND BUSH	13% Cr. STEEL	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	PLUG	ASTM A 217 Gr. CA15	1
3	SEAT RING (INTEGRAL)	ASTM A 216 Gr. WCB + STELLITE-6	-
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -



VENDOR NAME



PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

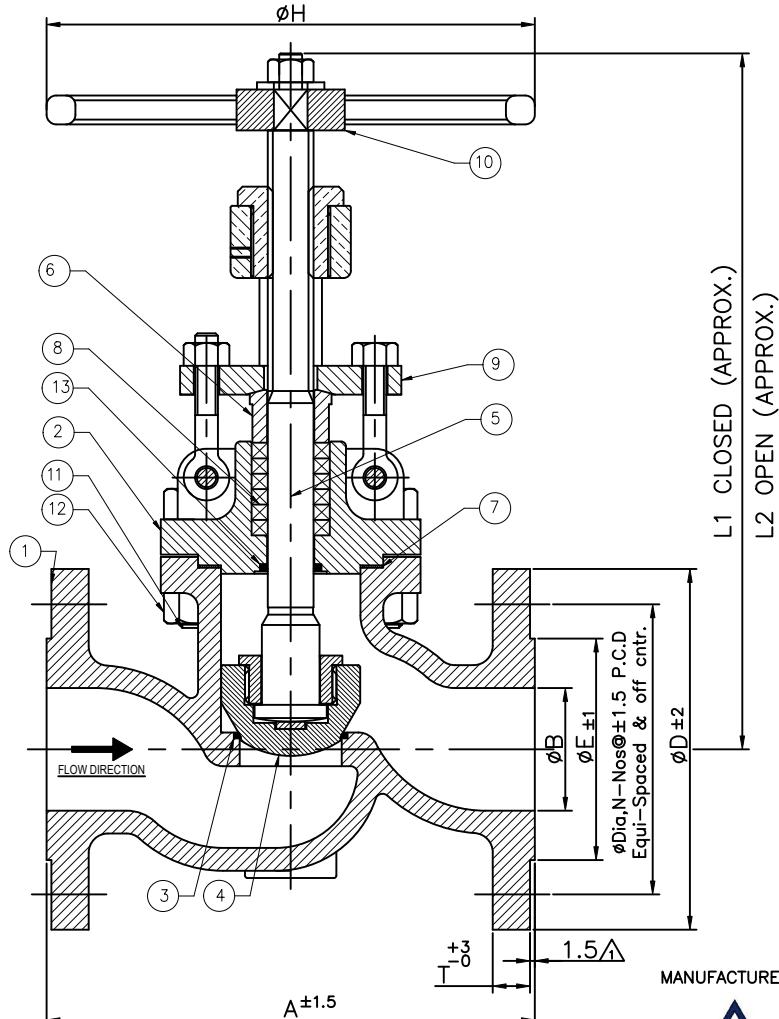
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									19	19	Nos.	
3"	241(9-7/16")	76 (2-15/16")	190 (7-7/16")	127.0(5")	254 (10")	344 (13-8/16")	374 (14-11/16")	17.5 (11/16")	152.4 (6")	19.0 (11/16")	4	44 (97)



DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :BS 1873 (Edition 2018) .
- FACE TO FACE :AS PER ASME B16.10 (EDITION 2017)
- END CONNECTION :FLANGED END AS PER ASME B16.5 ,150# (RF 125 AARH) (EDITION 2017)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF DISC :SWIVEL PLUG TYPE
- TYPE OF SEATRING :INTEGRAL
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
19	3"	GLAARRH1F	LOW EMISSION FET	2

TEST STANDARD.: API 598			
TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BACK SEAT (INTEGRAL)	STELLITE-6	-
12	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
11	BODY STUD	ASTM A 193 Gr. B7	REQ.
10	HANDWHEEL (RISING)	DUCTILE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
7	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1
6	GLAND BUSH	13% Cr. STEEL	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	PLUG	ASTM A 217 Gr. CA15	1
3	SEAT RING (INTEGRAL)	ASTM A 216 Gr. WCB + STELLITE-6	-
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS			
DWG. NO.	DESCRIPTION		
-	-		
-	-		
-	-		
-	-		
GENERAL NOTES			
1. -			
GENERAL HOLDS			
1. -			
NOTES:			
1. -			
3	26.04.2024 FC OP KGM KGM		
2	09.04.2024 FC OP KGM KGM		
1	03.10.2023 IFA OP KGM KGM		
0	13.06.2023 IFA ARS KGM KGM		
REV.	DATE	DESCRIPTION	PREPD CHKD APPD
VENDOR NAME		JKJV GTPP	
SIEMENS energy			
PURCHASER JOB CODE	PURCHASE ORDER NO.	0-8936-2 P-215A-201-A	
Golden Triangle Polymers Company LLC		Golden Triangle Polymers Project	
ETHYLENE UNIT - 10		EQUIMENT NAME / ITEM TAG NO. 10-X-2400	
DOCUMENT TITLE		DETAIL DRAWING OF VALVES (MANUAL)	
COMPANY DWG. NO.		D06-10-JKVN-215A-201-A-DGN-242	
CONTRACTOR DWG. NO.		V-215A-201-A-DGN-242	
DWG. NO.		SCALE	NONE
SEI-DGN-242		SIZE	D 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	NOS.	
6"	406(15-15/16")	152(5-15/165")	280(11")	215.9(8-7/16")	406(15-15/16")	465(18-4/16")	515(20-4/16")	23.9(15/16")	241.3(9-8/16")	22.2(13/16")	8	127(279.9)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD : BS 1873 (Edition 2018) .
- FACE TO FACE : AS PER ASME B16.10 (EDITION 2017)
- END CONNECTION : FLANGED END AS PER ASME B16.5 ,150# (RF 125 AARH) (EDITION 2017)
- TESTING STANDARD : API 598 (Edition 2016) .
- TYPE OF BONNET : BOLTED
- TYPE OF DISC : SWIVEL PLUG TYPE
- TYPE OF SEATRING : INTEGRAL
- TYPE OF STEM : RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
20	6"	GLAARH2F	LOW EMISSION FET	3

TEST STANDARD.: API 598

TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

15	GEAR BOX	SSV MAKE	1
14	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
13	BODY STUD	ASTM A 193 Gr. B7	REQ.
12	HANDWHEEL (RISING)	DUCTILE IRON	1
11	GLAND FLANGE	ASTM A 105N	1
10	GLAND BUSH	13% Cr. STEEL	1
9	BACK SEAT (INTEGRAL)	STELLITE-6	-
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
7	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1
6	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
5	PLUG NUT	13% Cr. STEEL	1
4	SEAT RING (INTEGRAL)	ASTM A 216 Gr. WCB+STELLITE-6	-
3	PLUG	ASTM A 216 Gr. WCB+13% Cr. FACING	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

MANUFACTURER'S

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PO NO.: PO/23-24/136
,PO-622
DATE:- 31.05.2023

WO NO.: SODS23046
DATE:- 07.06.2023

GENERAL NOTES
1. -

GENERAL HOLDS
1. -

NOTES:
1. -

3 26.04.2024 FC OP KGM KGM
2 09.04.2024 FC OP KGM KGM
1 03.10.2023 IFA OP KGM KGM
0 13.06.2023 IFA ARS KGM KGM
REV. DATE DESCRIPTION PREPD CHKD APPD

VENDOR NAME
SIEMENS energy

PURCHASER JOB CODE 0-8936-2 PURCHASE ORDER NO. P-215A-201-A
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project
ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE
DWG. NO. SEI-DGN-242 SIZE D REV. 3

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SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
8"	495(19-7/16")	203(7-15/16")	345(13-9/16")	269.9(10-10/16")	460(18-1/16")	545(21-7/16")	615(24-3/16")	27.0(1-1/16")	298.5(11-12/16")	22.2(13/16")	8	193(125.5)

DESIGN FEATURES & SPECIFICATION :

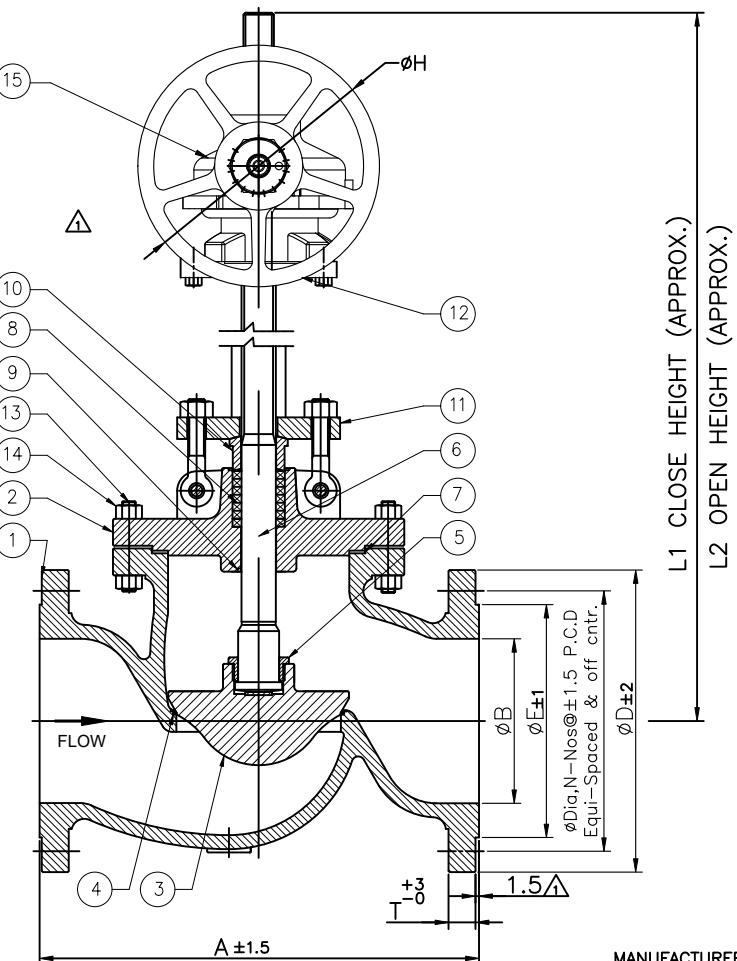
- MANUFACTURING STD : BS 1873 (Edition 2018) .
- FACE TO FACE : AS PER ASME B16.10 (EDITION 2017)
- END CONNECTION : FLANGED END AS PER ASME B16.5 ,150# (RF 125 AARH) (EDITION 2017)
- TESTING STANDARD : API 598 (Edition 2016) .
- TYPE OF BONNET : BOLTED
- TYPE OF DISC : SWIVEL PLUG TYPE
- TYPE OF SEATRING : INTEGRAL
- TYPE OF STEM : RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
21	8"	GLAARH2F	LOW EMISSION FET	1

TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450 32
	SEAT & BACK SEAT	325 23
PNEUMATIC	SEAT	80 6

15	GEAR BOX	SSV MAKE	1	OP	KGM	KGM
14	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.	OP	KGM	KGM
13	BODY STUD	ASTM A 193 Gr. B7	REQ.	OP	KGM	KGM
12	HANDWHEEL (RISING)	DUCTILE IRON	1	REV.	DATE	DESCRIPTION
11	GLAND FLANGE	ASTM A 105N	1	PREPD	CHKD	APPD
10	GLAND BUSH	13% Cr. STEEL	1			
9	BACK SEAT (INTEGRAL)	STELLITE-6	-			
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.			
7	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1			
6	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1			
5	PLUG NUT	13% Cr. STEEL	1			
4	SEAT RING (INTEGRAL)	ASTM A 216 Gr. WCB+STELLITE-6	-			
3	PLUG	ASTM A 216 Gr. WCB+13% Cr. FACING	1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1			
1	BODY	ASTM A 216 Gr. WCB	1			
Sr.No.	PART NAME	MATERIAL	QTY.	SIZE	REV.	
				D	3	



PO NO.: PO/23-24/136

DATE:- 31.05.2023

WO NO.: SODS23046

DATE:- 07.06.2023

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REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -



SIEMENS energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

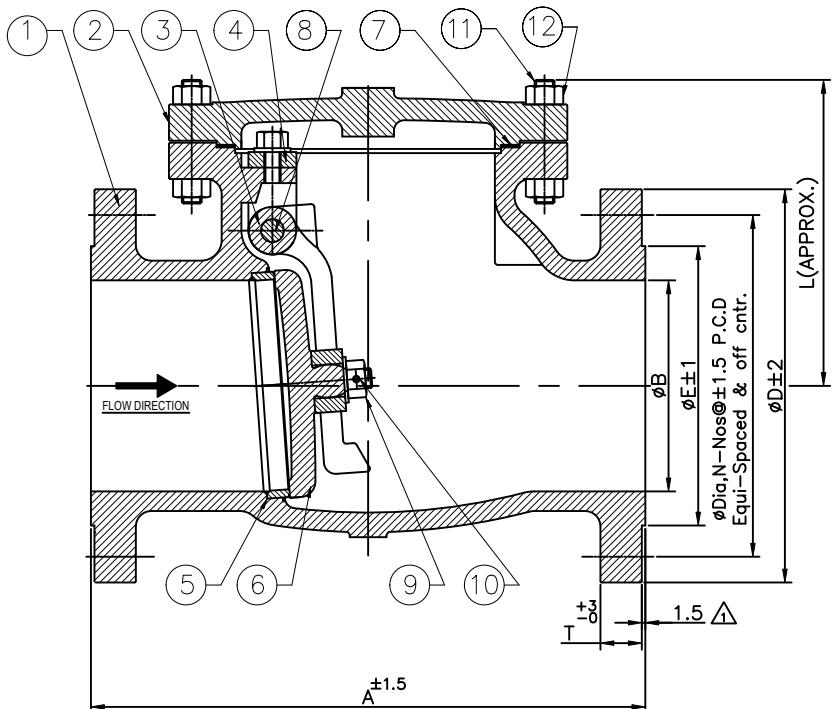
SCALE: NONE

DWG. NO: SEI-DGN-242

SIZE: D

REV: 3

SIZE	A	ØB	ØD	ØE	L	T	FLANGE DETAIL			WT. (APP) KG/POUND
							PCD	DIA.	Nos.	
2"	203(7-15/16")	51(2")	150(5-14/16")	92.1(3-10/16")	132(5-3/16")	14.3(9/16")	120.7(4-12/16")	19(11/16")	4	17(37.47)



MANUFACTURER'S



www.steelstrong.com



PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :BS 1868 (Edition 1975) .
- FACE TO FACE :AS PER ASME B 16.10 (Edition 2017)
- END CONNECTION :FLANGED END AS PER ASME B 16.5, 150#, (RF 125 AARH) (Edition 2016)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF COVER :BOLTED
- TYPE OF SEAT RING :RENEWABLE
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- SWING TYPE CHECK VALVE.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALTY	QTY
1	2"	CSAARH1	----	5

TEST STANDARD.: API 598			
TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT	325	23

12	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
11	BODY STUD	ASTM A 193 Gr. B7	REQ.
10	SPLIT PIN	SS 304	1
9	DISC NUT	SS 304	1
8	HINGE PIN	13% Cr. STEEL (NO CASTING)	1
7	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
6	DISC	ASTM A 217 Gr. CA15	1
5	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE 6	1
4	BRACKET	ASTM A 217 Gr. CA15	1
3	HINGE	ASTM A 217 Gr. CA15	1
2	COVER (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:	
1.	-

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM

REV. DATE DESCRIPTION PREPD CHKD APPD



SIEMENS energy

PURCHASER JOB CODE 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

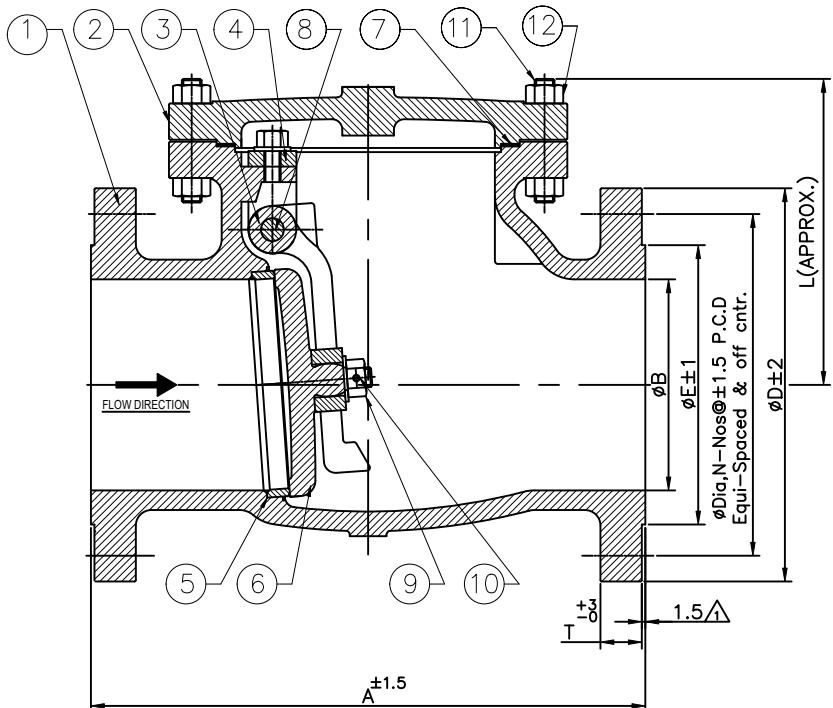
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	ØE	L	T	FLANGE DETAIL			WT. (APP) KG/POUND
							PCD	DIA.	Nos.	
3"	241(9-7/16")	76(2-15/16")	190(7-7/16")	127(5")	158(6-3/16")	17.5(11/16")	152.4(6")	19(11/16")	4	31(68.34)



MANUFACTURER'S



www.steelstrong.com



PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :BS 1868 (Edition 1975) .
- FACE TO FACE :AS PER ASME B 16.10 (Edition 2017)
- END CONNECTION :FLANGED END AS PER ASME B 16.5, 150#, (RF 125 AARH) (Edition 2016)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF COVER :BOLTED
- TYPE OF SEAT RING :RENEWABLE
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- SWING TYPE CHECK VALVE.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
2	3"	CSAARH1	----	2

TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450
	SEAT	325

12	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
11	BODY STUD	ASTM A 193 Gr. B7	REQ.
10	SPLIT PIN	SS 304	1
9	DISC NUT	SS 304	1
8	HINGE PIN	13% Cr. STEEL (NO CASTING)	1
7	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
6	DISC	ASTM A 217 Gr. CA15	1
5	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE 6	1
4	BRACKET	ASTM A 217 Gr. CA15	1
3	HINGE	ASTM A 217 Gr. CA15	1
2	COVER (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES	
1. -	-

GENERAL HOLDS	
1. -	-

NOTES:	
1. -	-

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

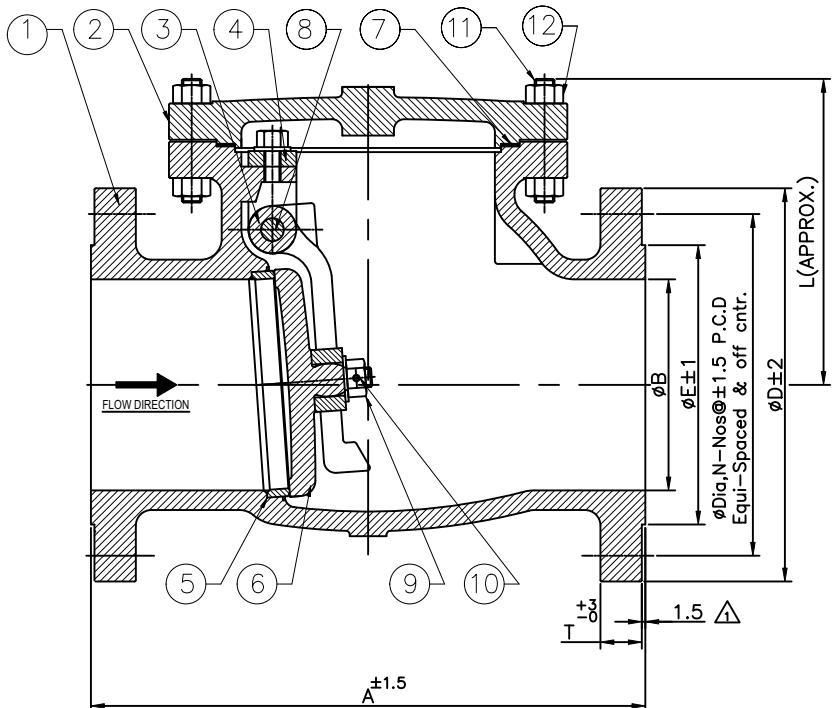
ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

SCALE: NONE
DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	ØE	L	T	FLANGE DETAIL			WT. (APP) KG/POUND
							PCD	DIA.	Nos.	
4"	292(11-7/16")	102(4")	230(9")	157.2(6-2/16")	186(7-5/16")	22.3(14/16")	190.5(7-7/16")	19(11/16")	8	48(105.8)



MANUFACTURER'S



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PO NO.: PO/23-24/136
DATE:- 31.05.2023
WO NO.: SODS23046
DATE:- 07.06.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :BS 1868 (Edition 1975) .
- FACE TO FACE :AS PER ASME B 16.10 (Edition 2017)
- END CONNECTION :FLANGED END AS PER ASME B 16.5, 150#, (RF 125 AARH) (Edition 2016)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF COVER :BOLTED
- TYPE OF SEAT RING :RENEWABLE
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- SWING TYPE CHECK VALVE.
- PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
3	4"	CSAARH1	----	2

TEST STANDARD.: API 598

TEST PRESSURE (150#)		PSIG	Kg/cm ² g
HYDRO	SHELL	450	32
	SEAT	325	23

12	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
11	BODY STUD	ASTM A 193 Gr. B7	REQ.
10	SPLIT PIN	SS 304	1
9	DISC NUT	SS 304	1
8	HINGE PIN	13% Cr. STEEL (NO CASTING)	1
7	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
6	DISC	ASTM A 217 Gr. CA15	1
5	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE 6	1
4	BRACKET	ASTM A 217 Gr. CA15	1
3	HINGE	ASTM A 217 Gr. CA15	1
2	COVER (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES	
1. -	-

GENERAL HOLDS	
1. -	-

NOTES:	
1. -	-

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	13.06.2023	IFA	ARS	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	ØE	L	T	FLANGE DETAIL			WT. (APP) KGPOUND	DESIGN FEATURES & SPECIFICATION :																														
							P.C.D	DIA.	Nos.		REFERENCE DRAWINGS																														
8"	495(19-7/16")	203(7-15/16")	345(13-9/16")	269.9(10-10/16")	265(10-6/16")	27(1-1/16")	298.5(11-12/16")	22.2(13/16")	8	142(313)	-	-																													
LIFTING AS CAST																																									
<p>FLOW DIRECTION</p> <p>1. LIFTING AS CAST</p> <p>2. BODY STUD NUT</p> <p>3. BODY STUD</p> <p>4. SPLIT PIN</p> <p>5. DISC NUT</p> <p>6. HINGE PIN</p> <p>7. GASKET (ENCAPSULATED)</p> <p>8. DISC</p> <p>9. SEAT RING (RENEWABLE)</p> <p>10. BRACKET</p> <p>11. HINGE</p> <p>12. COVER (BOLTED)</p> <p>13. BODY</p> <p>Dimensions: A ±1.5, ØB, ØD ±2, ØE, T, L (APPROX.)</p>																																									
1. MANUFACTURING STD. :BS 1868 (Edition 1975) . 2. FACE TO FACE :AS PER ASME B 16.10 (Edition 2017) 3. END CONNECTION :FLANGED END AS PER ASME B 16.5. (RF 125 AARH) (Edition 2016) 4. TESTING STANDARD :API 598 (Edition 2016) . 5. TYPE OF COVER :BOLTED 6. TYPE OF SEAT RING :RENEWABLE 7. OPERATING TEMP :12F TO 350F 8. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 9. API TRIM-8. 10. SWING TYPE CHECK VALVE. 11. PROCESS MEDIA-STEAM/CONDENSATE, PROCESS WATER 12. CORROSION ALLOWANCE REQUIRED 1.6 MM 1 13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).																																									
<table border="1"> <tr> <th>PO SR NO.</th> <th>SIZE</th> <th>TAG NO</th> <th>SPECIALITY</th> <th>QTY</th> </tr> <tr> <td>4</td> <td>8"</td> <td>CSAARH1</td> <td>----</td> <td>2</td> </tr> </table>												PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY	4	8"	CSAARH1	----	2																				
PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY																																					
4	8"	CSAARH1	----	2																																					
TEST STANDARD.: API 598 <table border="1"> <tr> <td>TEST PRESSURE (150#)</td> <td>PSIG</td> <td>Kg/cm²g</td> </tr> <tr> <td rowspan="2">HYDRO</td> <td>SHELL</td> <td>450</td> <td>32</td> </tr> <tr> <td>SEAT</td> <td>325</td> <td>23</td> </tr> </table>												TEST PRESSURE (150#)	PSIG	Kg/cm ² g	HYDRO	SHELL	450	32	SEAT	325	23																				
TEST PRESSURE (150#)	PSIG	Kg/cm ² g																																							
HYDRO	SHELL	450	32																																						
	SEAT	325	23																																						
<table border="1"> <tr> <td>3</td> <td>26.04.2024</td> <td>FC</td> <td>OP</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>2</td> <td>09.04.2024</td> <td>FC</td> <td>OP</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>1</td> <td>03.10.2023</td> <td>IFA</td> <td>OP</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>0</td> <td>13.06.2023</td> <td>IFA</td> <td>ARS</td> <td>KGM</td> <td>KGM</td> </tr> <tr> <td>REV.</td> <td>DATE</td> <td>DESCRIPTION</td> <td>PREPD</td> <td>CHKD</td> <td>APPD</td> </tr> </table>												3	26.04.2024	FC	OP	KGM	KGM	2	09.04.2024	FC	OP	KGM	KGM	1	03.10.2023	IFA	OP	KGM	KGM	0	13.06.2023	IFA	ARS	KGM	KGM	REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD
3	26.04.2024	FC	OP	KGM	KGM																																				
2	09.04.2024	FC	OP	KGM	KGM																																				
1	03.10.2023	IFA	OP	KGM	KGM																																				
0	13.06.2023	IFA	ARS	KGM	KGM																																				
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD																																				
VENDOR NAME <table border="1"> <tr> <td>SIEMENS energy</td> </tr> </table>												SIEMENS energy																													
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PURCHASER JOB CODE 0-8936-2 PURCHASE ORDER NO. P-215A-201-A																																									
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project																																									
ETHYLENE UNIT - 10 10-X-2400																																									
EQUIPMENT NAME / ITEM TAG NO. WO NO.: PO/23-24/136 DATE:- 31.05.2023																																									
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)																																									
COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242																																									
CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE																																									
DWG. NO. SEI-DGN-242 SIZE D REV. 3																																									

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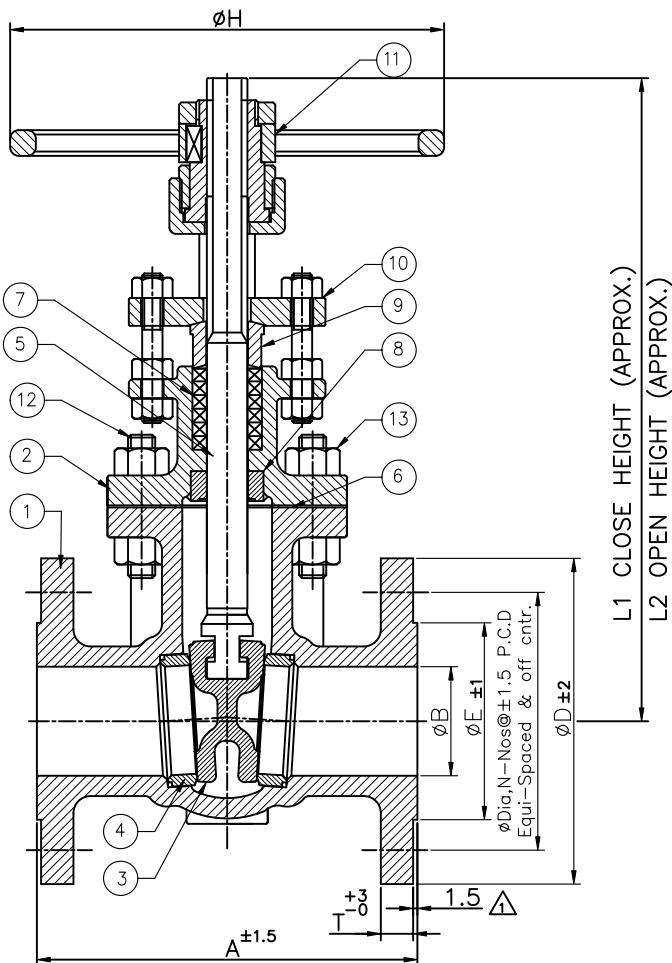
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STEELSTRONG VALVES
Mumbai, India
Manufacturers of
Valves & Fittings

MANUFACTURER'S

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos	
2"	178(7")	50.8(2")	150(5-14/16")	92.1(3-10/16")	203(7-15/16")	301(11-13/16")	361(14-3/16")	14.3(9/16")	120.7(4-12/16")	19.0(11/16")	4	21(46.29)



MANUFACTURER'S

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PO NO.: PO/23-24/347	DATE:- 18.08.2023
WO NO.: SODS23081	DATE:- 25.08.2023
Sr.No.	PART NAME

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 600 (Edition 2021).
- FACE TO FACE : AS PER ASME B16.10 (Edition 2017).
- END CONNECTION : FLANGED END AS PER ASME B16.5,RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD : API 598 (Edition 2016).
- TYPE OF BONNET : BOLTED
- TYPE OF WEDGE : FLEXIBLE
- TYPE OF SEATING : RENEWABLE
- TYPE OF STEM : RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CAR SEAL OPEN REQUIREMENT APPLICABLE
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- CORROSION ALLOWANCE REQUIRED 1.6 MM

17. PROCESS MEDIA :- STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
1	2"	GAAARH1F	HW+CSO, LOW EMISSION FET	2

TEST STANDARD: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450
	SEAT & BACK SEAT	325
PNEUMATIC	SEAT	80

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1				
10	GLAND FLANGE	ASTM A 105N	1				
9	GLAND BUSH	13% Cr. STEEL	1				
8	BACKSEAT BUSH	13% Cr. STEEL	1				
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1				
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1				
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2				
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1				
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1				
1	BODY	ASTM A 216 Gr. WCB	1				
Sr.No.	PART NAME	MATERIAL	QTY.				

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -

REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

3 26.04.2024 FC OP KGM KGM
2 09.04.2024 FC OP KGM KGM
1 03.10.2023 IFA OP KGM KGM
0 21.09.2023 IFA OP KGM KGM

REV DATE DESCRIPTION PREPD CHKD APPD

VENDOR NAME

SIEMENS energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

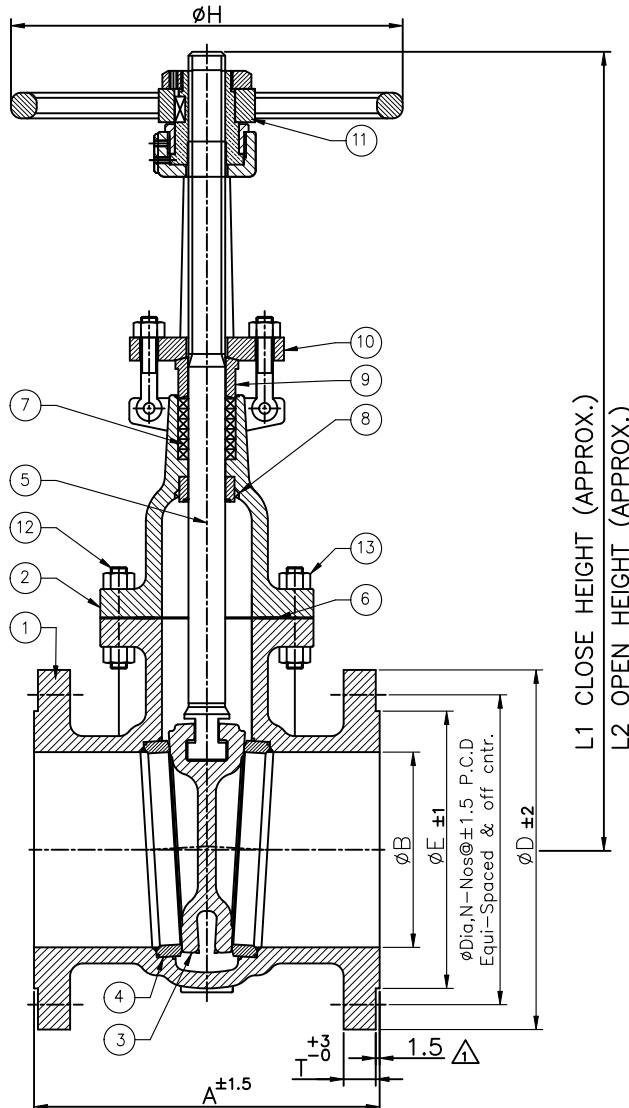
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE NONE

DWG. NO: SEI-DGN-242 SIZE D REV. 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
6"	267(10-8/16")	152.4(6")	280(11")	215.9(8-7/16")	305(12")	621(24-7/16")	784(30-13/16")	23.9(15/16")	241.3(9-8/16")	22.2(13/16")	8	98(216.05)



MANUFACTURER'S

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PO NO.: PO/23-24/347
DATE:- 18.08.2023
WO NO.: SODS23081
DATE:- 25.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. : API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CAR SEAL OPEN REQUIREMENT APPLICABLE
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- CORROSION ALLOWANCE REQUIRED 1.6 MM

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
2	6"	GAAARH1F	HW+CSO, LOW EMISSION FET	1

TEST STANDARD.: API 598

	TEST PRESSURE (150#)	PSIG	Kg/cm²g
	HYDRO	SHELL	450
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.				
12	BODY STUD	ASTM A 193 Gr. B7	REQ.				
11	HANDWHEEL (NON RISING)	DUCTILE IRON		1			
10	GLAND FLANGE	ASTM A 105N		1			
9	GLAND BUSH	13% Cr. STEEL		1			
8	BACKSEAT BUSH	13% Cr. STEEL		1			
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.				
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE		1			
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)		1			
4	SEAT RING (RENEWABLE)	ASTM A 105+STELLITE-6		2			
3	WEDGE (FLEXIBLE)	ASTM A 216 Gr. WCB+13% Cr.FACING		1			
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB		1			
1	BODY	ASTM A 216 Gr. WCB		1			
Sr.No.	PART NAME	MATERIAL	QTY.				

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
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-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. -



VENDOR NAME

SIEMENS energy

PURCHASER JOB CODE 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400 DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	ØE	ØH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
3"	203(7-15/16")	76.2(3")	190(7-7/16")	127.0(5")	254(10")	387(15-3/16")	472(18-9/16")	17.5(11/16")	152.4(6")	19.0(11/16")	4	35(77.16)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CAR SEAL OPEN REQUIREMENT APPLICABLE
- PROCESS MEDIA- STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- CORROSION ALLOWANCE REQUIRED 1.6 MM

PO SR NO.	SIZE	TAG NO	SPECIALTY	QTY
3	3"	GAAARH1F	LOW EMISSION FET, HW+CSO	8

TEST STANDARD.: API 598

TEST PRESSURE (150#)	PSIG	Kg/cm ² g
HYDRO	SHELL	450
	SEAT & BACK SEAT	325
PNEUMATIC	SEAT	80

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

VENDOR NAME: **SIEMENS energy**

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

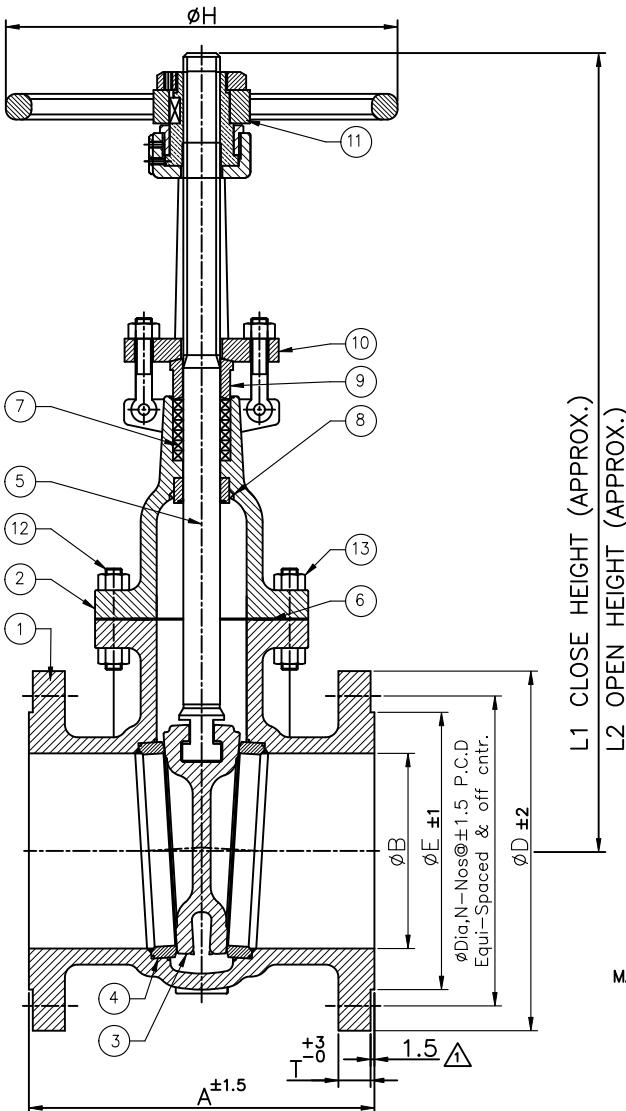
ETHYLENE UNIT - 10 EQUIPMENT NAME / ITEM TAG NO: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3



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PO NO.: PO/23-24/347, PO-622
DATE:- 18.08.2023

WO NO.: SODS23081
DATE:- 25.08.2023

SIZE	A	ϕB	ϕD	ϕE	ϕH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
4"	229(9")	101.6(4")	230(9")	157.2(6-3/16")	254(10")	470(18-8/16")	585(23")	22.3(14/16")	190.5(7-7/16")	19.0(11/16")	8	58(127.86)

DESIGN FEATURES & SPECIFICATION :

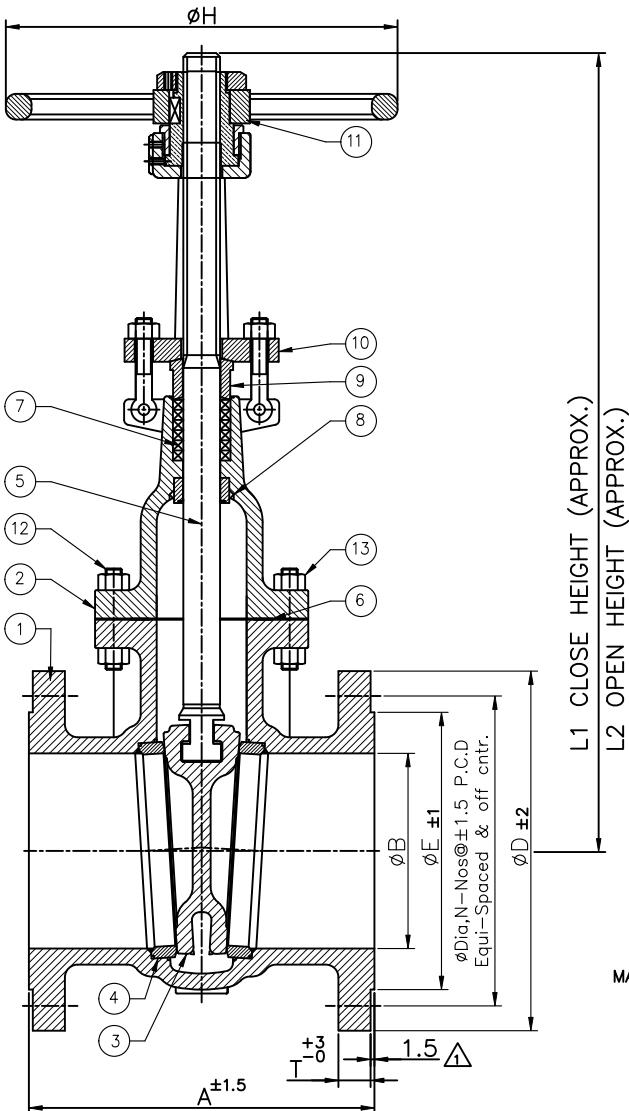
- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 12. API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CAR SEAL OPEN REQUIREMENT APPLICABLE
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER.
- CORROSION ALLOWANCE REQUIRED 1.6 MM

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
4	4"	GAARH1F	LOW EMISSION FET, HW+CSO	2

TEST STANDARD.: API 598			
TEST PRESSURE (150#)		PSIG	Kg/cm²g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC		SEAT	80
			6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
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-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	



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PO NO.: PO/23-24/347
DATE:- 18.08.2023

WO NO.:SODS23081
DATE:- 25.08.2023

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SIEMENS
energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

SCALE: NONE
DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	NOS.	
6"	406(15-15/16")	152(5-15/165")	280(11")	215.9(8-7/16")	406(15-15/16")	465(18-4/16")	515(20-4/16")	23.9(15/16")	241.3(9-8/16")	22.2(13/16")	8	127(279.9)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD : BS 1873 (Edition 2018) .
- FACE TO FACE : AS PER ASME B16.10 (EDITION 2017)
- END CONNECTION : FLANGED END AS PER ASME B16.5
RF 150# (RF 125 AARH) (EDITION 2017)
- TESTING STANDARD :BSEN 12266 PART-1 (Edition 2012) .
- TYPE OF BONNET :BOLTED
- TYPE OF DISC :SWIVEL PLUG TYPE
- TYPE OF SEATRING : INTEGRAL
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CAR SEAL OPEN REQUIREMENT APPLICABLE
- PROCESS MEDIA- STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- CORROSION ALLOWANCE REQUIRED 1.6 MM

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
5	6"	GLAARRH2F	LOW EMISSION FET, GO+CSO	1

TEST STANDARD:BS EN 12266-1			
TEST PRESSURE (150#)		PSIG	Kg/cm²g
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

15	GEAR BOX	SSV MAKE	1
14	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
13	BODY STUD	ASTM A 193 Gr. B7	REQ.
12	HANDWHEEL (RISING)	DUCTILE IRON	1
11	GLAND FLANGE	ASTM A 105N	1
10	GLAND BUSH	13% Cr. STEEL	1
9	BACK SEAT (INTEGRAL)	STELLITE-6	-
8	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
7	GASKET	SPIRAL WOUND SS 316 + GRAPHITE	1
6	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
5	PLUG NUT	13% Cr. STEEL	1
4	SEAT RING (INTEGRAL)	ASTM A 216 Gr. WCB+STELLITE-6	-
3	PLUG	ASTM A 216 Gr. WCB+13% Cr. FACING	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

3 26.04.2024 FC OP KGM KGM
2 09.04.2024 FC OP KGM KGM
1 03.10.2023 IFA OP KGM KGM
0 21.09.2023 IFA OP KGM KGM

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
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GENERAL NOTES

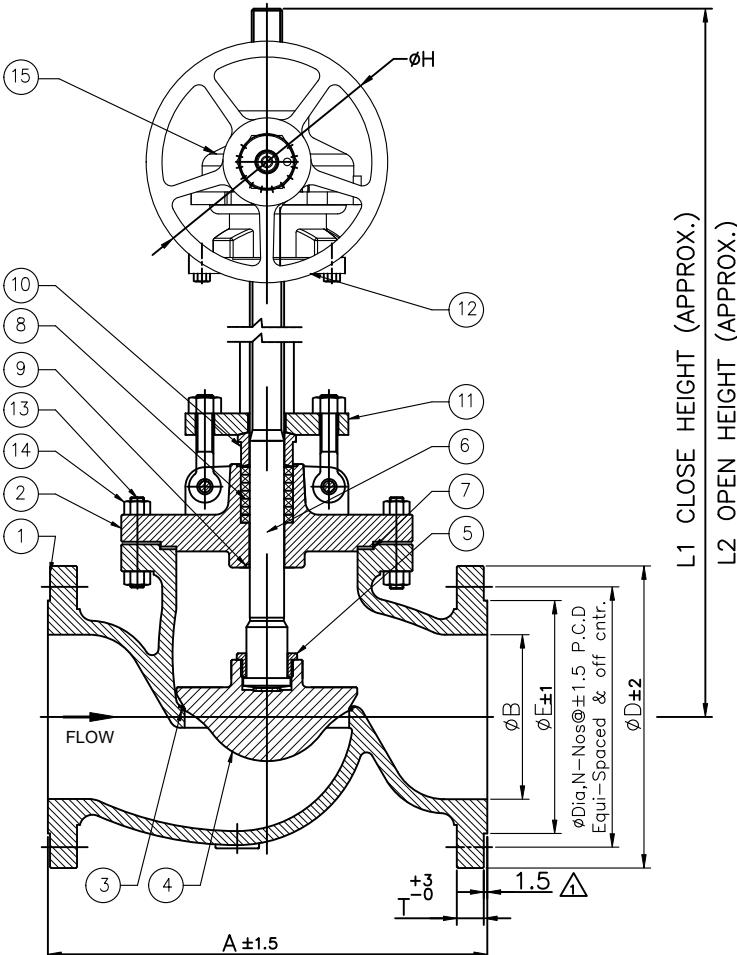
1. -

GENERAL HOLDS

1. -

NOTES:

1. -



MANUFACTURER'S



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PO NO.: PO/23-24/347
DATE:- 18.08.2023

WO NO.: SODS23081
DATE:- 25.08.2023



SIEMENS energy
PURCHASER JOB CODE P-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400

DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

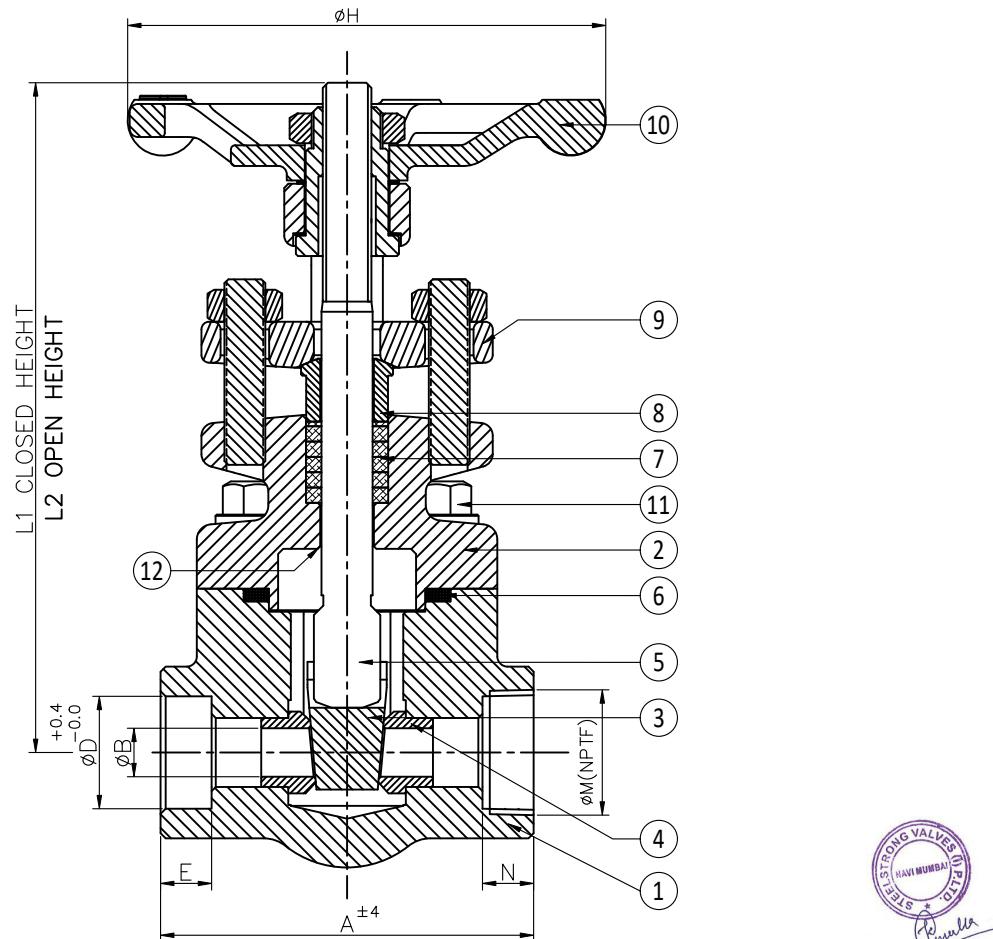
COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

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SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1/2"	87 (3-6/16)"	9 (5/16)"	21.8 (13/16)"	9.5 (5/16)"	90 (3-8/16)"	131 (5-2/16)"	146 (5-11/16)"	1/2"	9.5 (5/16)"	1.65 (3.6)



MANUFACTURER'S

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PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 602 (Edition 2022) .
- FACE TO FACE :AS PER MANUFACTURER'S STD.
- END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :SOLID
- TYPE OF SEATRING :RENEWABLE
- TYPE OF BORE : STANDARD
- OPERATING TEMP : 12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
1	1/2"	GASACH1F	LOW EMISSION, FET	12

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

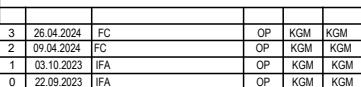
REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
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-	-
-	-

GENERAL NOTES	
1. -	-

GENERAL HOLDS	
1. -	-

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
2. There is no Butt weld For RT

REV. DATE DESCRIPTION PREPD CHKD APPD



VENDOR NAME



PURCHASER JOB CODE P-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

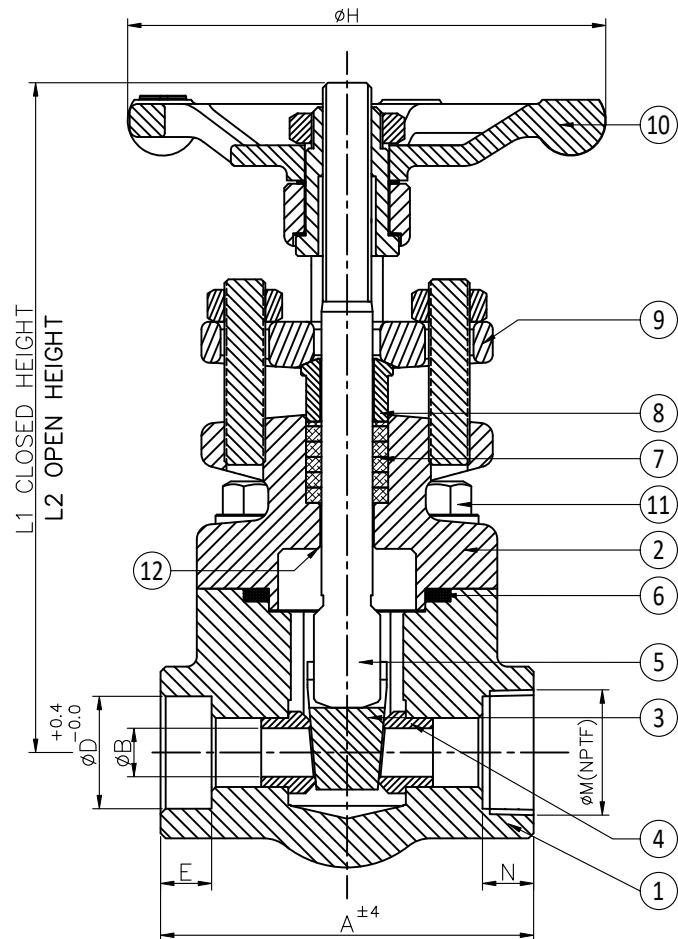
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1/2"	87 (3-6/16)"	9 (5/16)"	21.8 (13/16)"	9.5 (5/16)"	90 (3-8/16)"	131 (5-2/16)"	146 (5-11/16)"	1/2"	9.5 (5/16)"	1.65 (3.6)



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MANUFACTURER'S

PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 602 (Edition 2022) .
- FACE TO FACE :AS PER MANUFACTURER'S STD.
- END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :SOLID
- TYPE OF SEATRING :RENEWABLE
- TYPE OF BORE : STANDARD
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
4	1/2"	GASACH1F	LOW EMISSION, FET	6

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITED	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
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GENERAL NOTES

1. -

GENERAL HOLDS

1. -

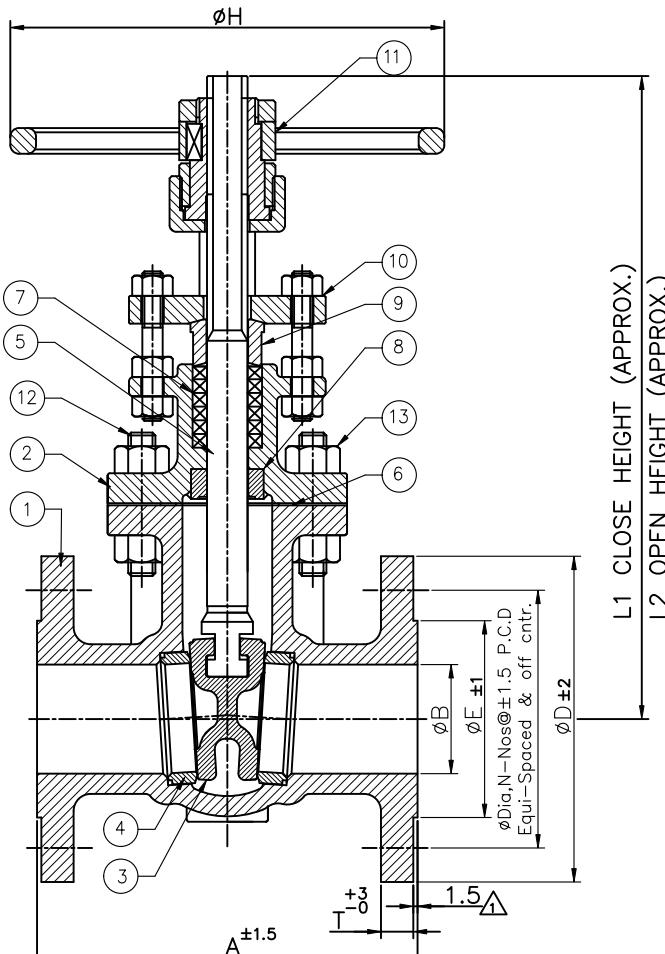
NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	22.09.2023	IFA	OP	KGM	KGM
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD



PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A
Golden Triangle Polymers Company LLC	
Golden Triangle Polymers Project	
ETHYLENE UNIT - 10	
EQUIPMENT NAME / ITEM TAG NO.	
10-X-2400	
DOCUMENT TITLE	
DETAIL DRAWING OF VALVES (MANUAL)	
COMPANY DWG. NO.	
D06-10-JKVN-215A-201-A-DGN-242	
CONTRACTOR DWG. NO.	
V-215A-201-A-DGN-242	
SCALE	
NONE	
DWG. NO.	SEI-DGN-242
SIZE D	REV. 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos	
2"	178 (7")	50.8 (2")	150 (5-14/16")	92.1 (3-10/16")	203 (7-15/16")	301 (11-13/16")	361 (14-3/16")	14.3 (9/16")	120.7 (4-12/16")	19.0 (11/16")	4	21 (46.29)



MANUFACTURER'S



www.steelstrong.com

PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER.
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)

PO SR NO.	SIZE	TAG NO	SPECIALTY	QTY
2	2"	GAAARH1F	LOW EMISSION, FET	3

TEST STANDARD.: API 598			
TEST PRESSURE (150#)	PSIG	Kg/cm ² g	
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

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REFERENCE DRAWINGS					
DWG. NO.	DESCRIPTION				
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-	-	-	-	-	-
-	-	-	-	-	-
GENERAL NOTES					
1. -					
GENERAL HOLDS					
1. -					
NOTES:					
1. -					



VENDOR NAME



PURCHASER JOB CODE : 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400

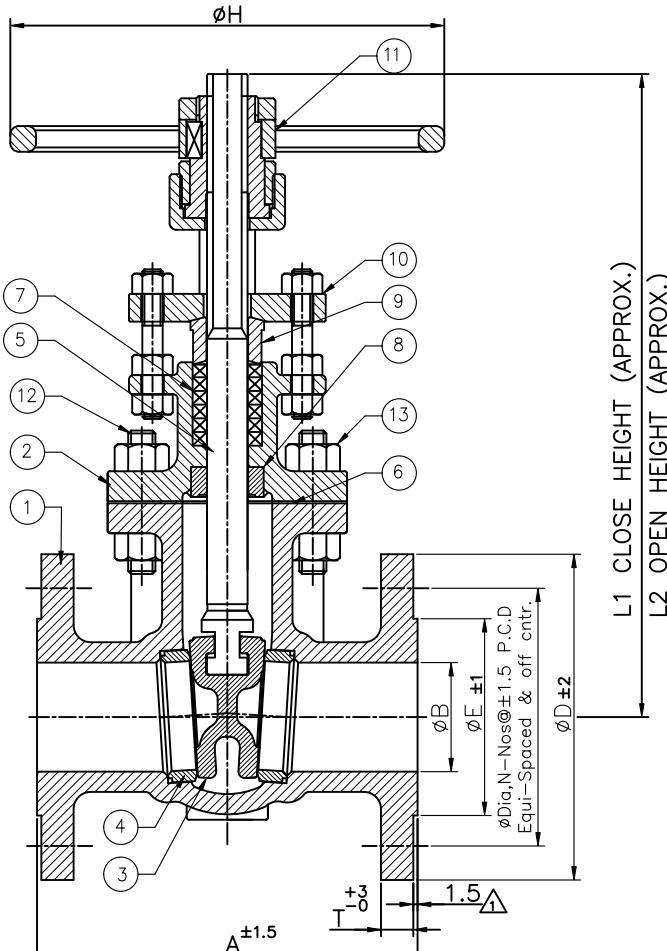
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos	
2"	178 (7")	50.8 (2")	150 (5-14/16")	92.1 (3-10/16")	203 (7-15/16")	301 (11-13/16")	361 (14-3/16")	14.3 (9/16")	120.7 (4-12/16")	19.0 (11/16")	4	21 (46.29)



MANUFACTURER'S

www.steelstrong.com

PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- PROCESS MEDIA: STEAM/CONDENSATE , PROCESS WATER
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)

PO SR NO.	SIZE	TAG NO	SPECIALTY	QTY
6	2"	GAAARH1F	LOW EMISSION, FET	12

TEST STANDARD.: API 598			
TEST PRESSURE (150#)	PSIG	Kg/cm ² g	
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
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-	-
-	-

GENERAL NOTES

1. -

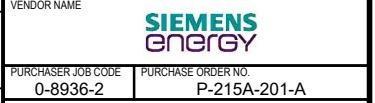
GENERAL HOLDS

1. -

NOTES:

1. -

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	22.09.2023	IFA	OP	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



VENDOR NAME

SIEMENS
energy

PURCHASER JOB CODE : 0-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO. 10-X-2400

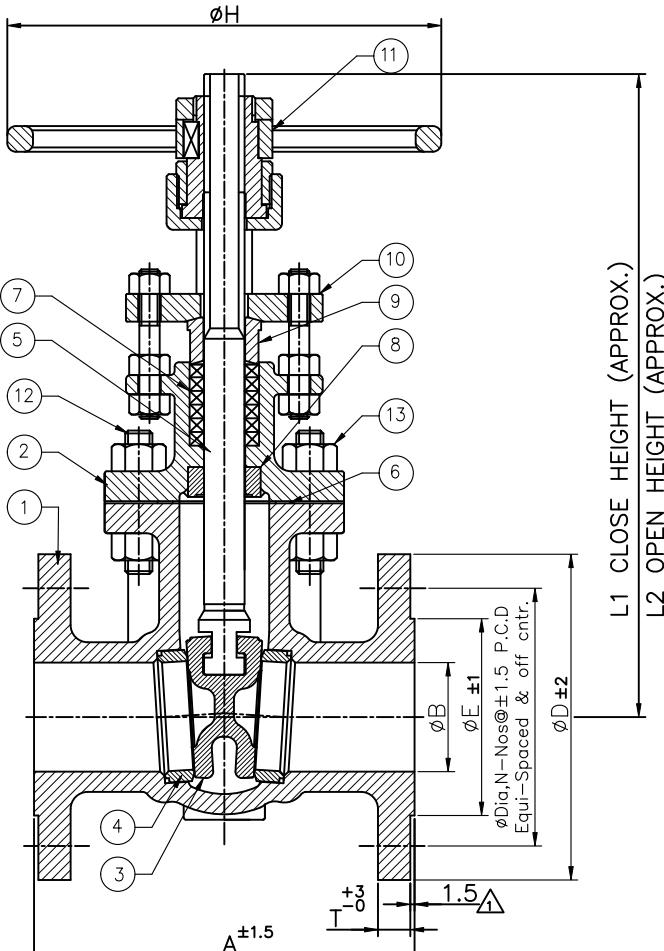
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE

DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	$\varnothing B$	$\varnothing D$	$\varnothing E$	$\varnothing H$	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos	
2"	178 (7")	50.8 (2")	150 (5-14/16")	92.1 (3-10/16")	203 (7-15/16")	301 (11-13/16")	361 (14-3/16")	14.3 (9/16")	120.7 (4-12/16")	19.0 (11/16")	4	21 (46.29)



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MANUFACTURER'S

PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 150# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- PROCESS MEDIA- :STEAM/CONDENSATE , PROCESS WATER
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)

PO SR NO.	SIZE	TAG NO	SPECIALTY	QTY
7	2"	GAAARH1F	LOW EMISSION, FET	4

TEST STANDARD.: API 598			
TEST PRESSURE (150#)	PSIG	Kg/cm ² g	
HYDRO	SHELL	450	32
	SEAT & BACK SEAT	325	23
PNEUMATIC	SEAT	80	6

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

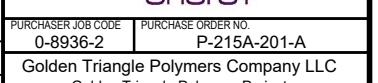
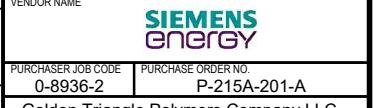
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DWG. NO.	DESCRIPTION
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-	-
-	-
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GENERAL NOTES	
1. -	-

GENERAL HOLDS	
1. -	-

NOTES:	
1. -	-

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	22.09.2023	IFA	OP	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO. V-215A-201-A-DGN-242
SCALE NONE

DWG. NO. SEI-DGN-242
SIZE D
REV. 3

SIZE	A	ϕB	ϕD	ϕE	ϕH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
3"	282 (11-1/16")	74 (2-14/16")	210 (8-4/16")	127 (4-1/16")	254 (10")	387 (15-3/16")	472 (18-9/16")	26.9 (1")	168.1 (6-9/16")	22.2 (13/16")	8	35 (77.16)

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 600 (Edition 2021) .
2. FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
3. END CONNECTION :FLANGED END AS PER ASME B16.5, RF 300# (Edition 2017), (RF 125 AARH)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :FLEXIBLE
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
9. VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
10. OPERATING TEMP :12F TO 350F
11. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
12. API TRIM-8.
13. FUGITIVE EMISSION TEST (FET).
14. PROCESS MEDIA :STEAM/CONDENSATE , PROCESS WATER.
15. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
16. CORROSION ALLOWANCE REQUIREMENT 1.6 MM

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
3	3"	GABARH1F	LOW EMISSION, FET	4

TEST STANDARD.: API 598

TEST PRESSURE (300#)	PSIG	Kg/cm ² g
HYDRO	SHELL	1125
	SEAT & BACK SEAT	825
PNEUMATIC	SEAT	80

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

VENDOR NAME: **SIEMENS energy**

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

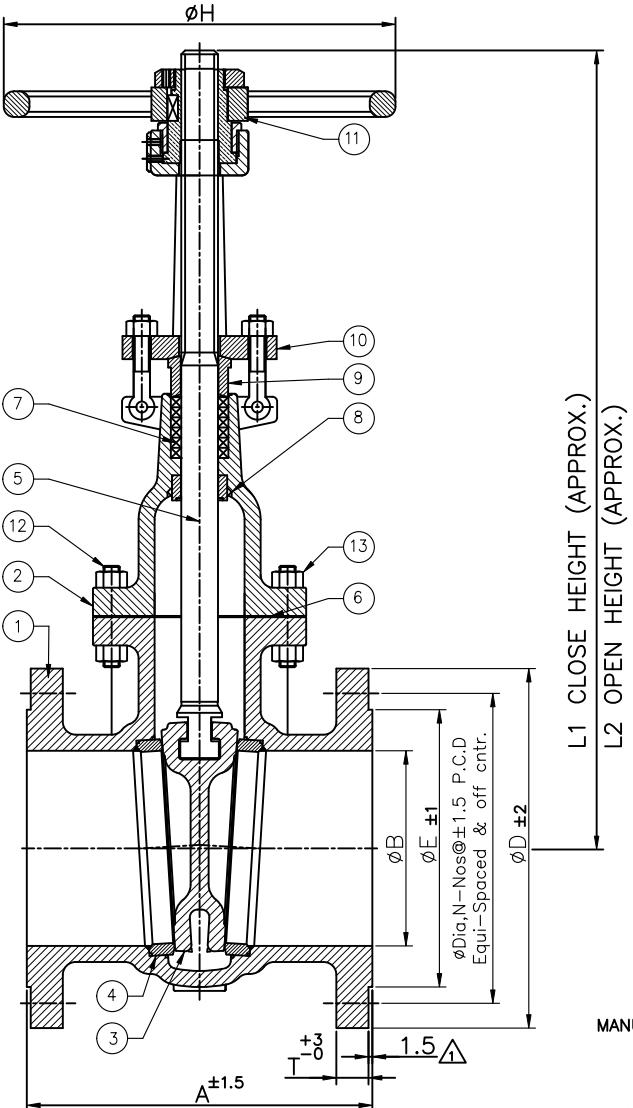
EQUIPMENT NAME / ITEM TAG NO: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3



SIZE	A	ϕB	ϕD	ϕE	ϕH	L1	L2	T	FLANGE DETAIL			WT. (APP) KG/POUND
									P.C.D	DIA.	Nos.	
3"	282 (11-1/16")	74 (2-14/16")	210 (8-4/16")	127 (4-1/16")	254 (10")	387 (15-3/16")	472 (18-9/16")	26.9 (1")	168.1 (6-9/16")	22.2 (13/16")	8	35 (77.16)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 600 (Edition 2021) .
- FACE TO FACE :AS PER ASME B16.10 (Edition 2017) .
- END CONNECTION :FLANGED END AS PER ASME B16.5, RF 300# (Edition 2017), (RF 125 AARH)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :FLEXIBLE
- TYPE OF SEATRING :RENEWABLE
- TYPE OF STEM :RISING STEM (OUTSIDE SCREW & YOKE)
- VALVE SHALL BE BOLTED TYPE (OS&Y TYPE) ONLY.
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- FUGITIVE EMISSION TEST (FET).
- PROCESS MEDIA :STEAM/CONDENSATE , PROCESS WATER.
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730)
- CORROSION ALLOWANCE REQUIREMENT 1.6 MM

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
5	3"	GABARH1F	LOW EMISSION, FET	14

TEST STANDARD.: API 598

TEST PRESSURE (300#)	PSIG	Kg/cm ² g
HYDRO	SHELL	1125
	SEAT & BACK SEAT	825
PNEUMATIC	SEAT	80

13	BODY STUD NUT	ASTM A 194 Gr. 2H	REQ.
12	BODY STUD	ASTM A 193 Gr. B7	REQ.
11	HANDWHEEL (NON RISING)	DUCTILE IRON	1
10	GLAND FLANGE	ASTM A 105N	1
9	GLAND BUSH	13% Cr. STEEL	1
8	BACKSEAT BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ.
6	GASKET	SPIRAL WOUND SS 316+ GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	ASTM A 217 Gr. CA15 + STELLITE-6	2
3	WEDGE (FLEXIBLE)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 216 Gr. WCB	1
1	BODY	ASTM A 216 Gr. WCB	1
Sr.No.	PART NAME	MATERIAL	QTY.

REV. DATE DESCRIPTION PREPD CHKD APPD

VENDOR NAME  SIEMENS energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10

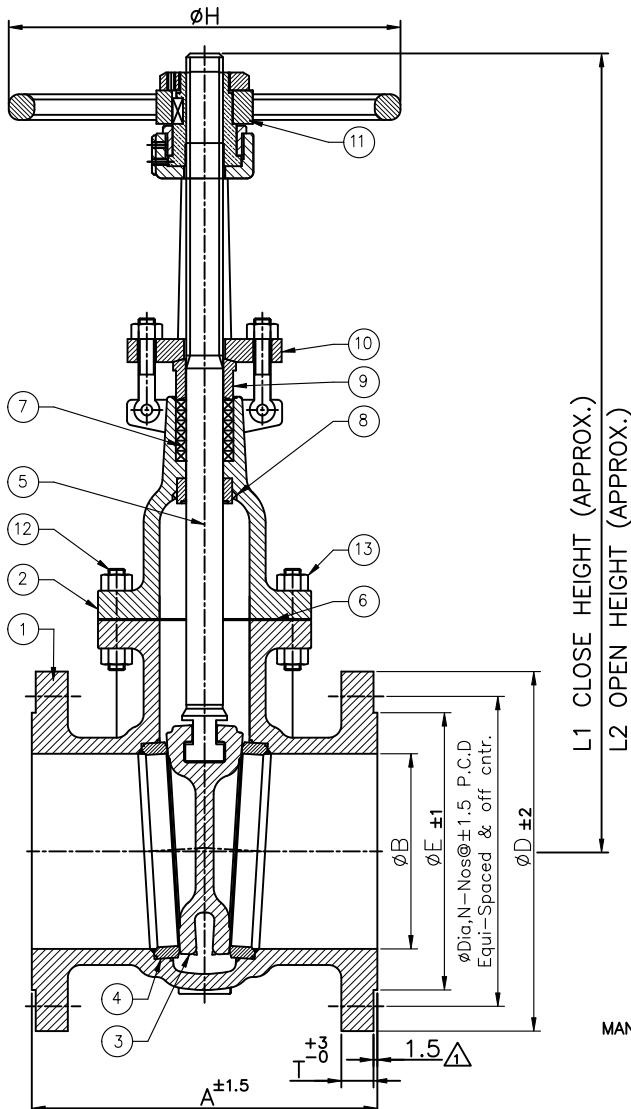
EQUIPMENT NAME / ITEM TAG NO: 10-X-2400

DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3



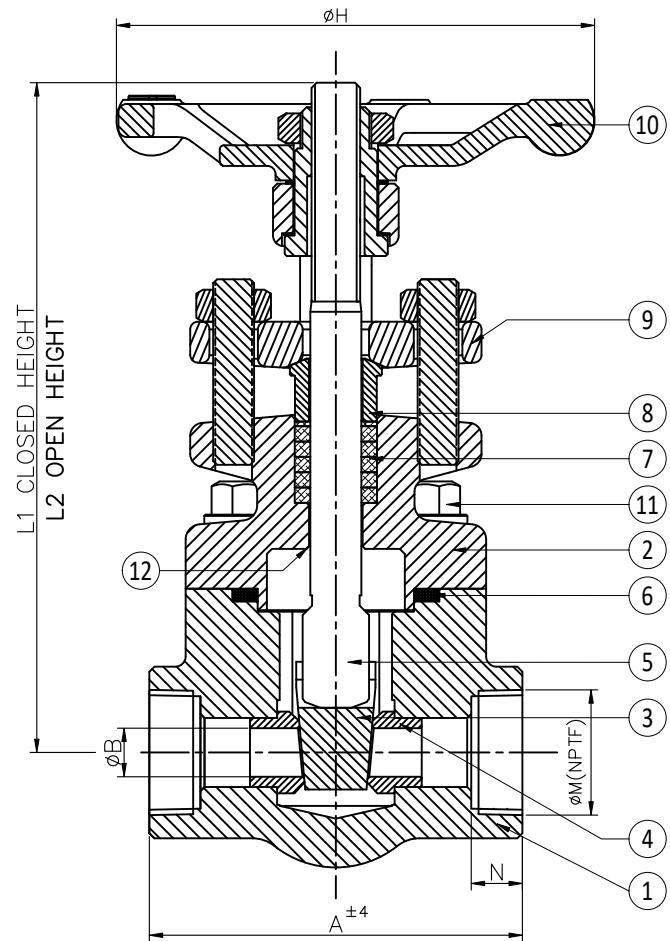
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PO NO.: PO/23-24/359
DATE:- 24.08.2023
WO NO.: SODS23083
DATE:- 28.08.2023

SIZE	A	ØB	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
3/4"	92(3-9/16")	12(7/16")	90(3-8/16")	135(5-5/16")	150(5-14/16")	3/4"	13.9(8/16")	2(4.40)



MANUFACTURER'S
www.steelstrong.com



PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SCREWED END AS PER ASME B 1.20.1 (Edition 2013)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE :STANDARD
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
5	3/4"	GASATH1	CA-1.6 MM	6

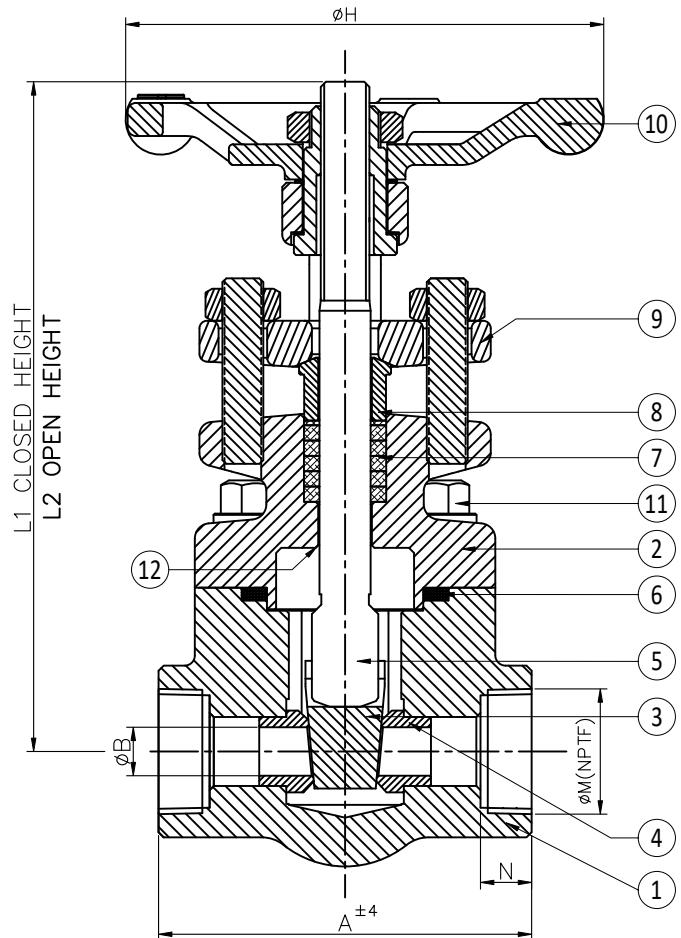
TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	
3	26.04.2024 FC OP KGM KGM
2	09.04.2024 FC OP KGM KGM
1	03.10.2023 IFA OP KGM KGM
0	22.09.2023 IFA OP KGM KGM
REV	DATE DESCRIPTION PREPD CHKD APPD
VENDOR NAME	
PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A
Golden Triangle Polymers Company LLC	
Golden Triangle Polymers Project	
ETHYLENE UNIT - 10	
EQUIPMENT NAME / ITEM TAG NO.	10-X-2400
DOCUMENT TITLE	DETAIL DRAWING OF VALVES (MANUAL)
COMPANY DWG. NO.	D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO.	V-215A-201-A-DGN-242
SCALE	NONE
DWG. NO.	SEI-DGN-242-01
SIZE	D
REV.	3

SIZE	A	ØB	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1"	105(4-2/16")	17(10/16")	116(4-9/16")	165(6-7/16")	186(7-5/16")	1"	17.3(10/16")	5(11.02)



MANUFACTURER'S

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PO NO.: PO/23-24/451-R1, PO -622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SCREWED END AS PER ASME B 1.20.1 (Edition 2013)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE :STANDARD
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
7	1"	GASATH1	CA-1.6 MM	12

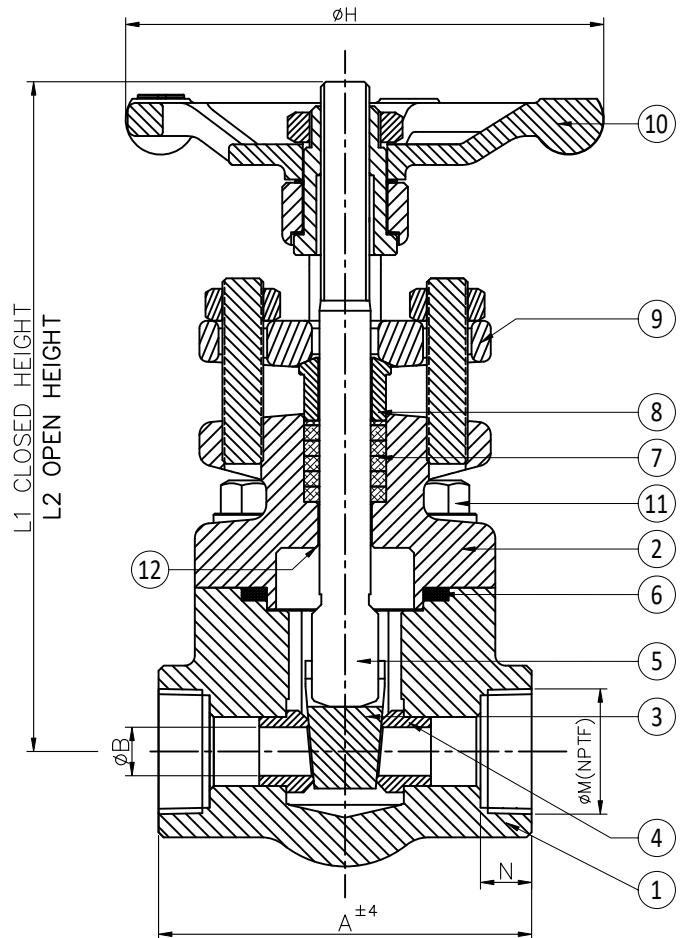
TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	
3	26.04.2024 FC OP KGM KGM
2	09.04.2024 FC OP KGM KGM
1	03.10.2023 IFA OP KGM KGM
0	22.09.2023 IFA OP KGM KGM
REV	DATE DESCRIPTION PREPD CHKD APPD
VENDOR NAME	
 	
PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A
Golden Triangle Polymers Company LLC	
Golden Triangle Polymers Project	
ETHYLENE UNIT - 10	
EQUIPMENT NAME / ITEM TAG NO.	10-X-2400
DOCUMENT TITLE	DETAIL DRAWING OF VALVES (MANUAL)
COMPANY DWG. NO.	D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO.	V-215A-201-A-DGN-242
SCALE	NONE
DWG. NO.	SEI-DGN-242
SIZE	D
REV.	3

SIZE	A	ØB	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
3/4"	92(3-9/16")	12(7/16")	90(3-8/16")	135(5-5/16")	150(5-14/16")	3/4"	13.9(8/16")	2(4.40)



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MANUFACTURER'S



PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SCREWED END AS PER ASME B 1.20.1 (Edition 2013)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE :STANDARD
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
3	3/4"	GASATH1	CA-1.6 MM,	16

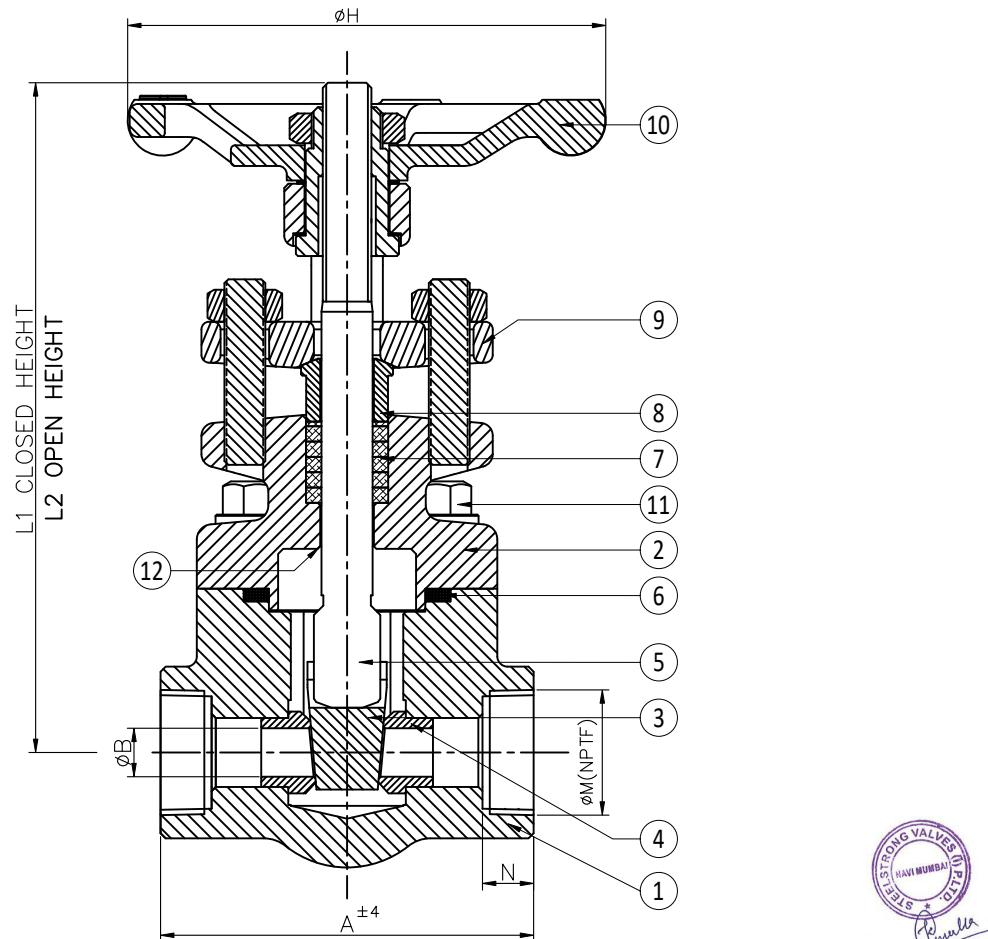
TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	
3	26.04.2024 FC OP KGM KGM
2	09.04.2024 FC OP KGM KGM
1	03.10.2023 IFA OP KGM KGM
0	22.09.2023 IFA OP KGM KGM
REV	DATE DESCRIPTION PREPD CHKD APPD
3	Golden Triangle Polymers Company LLC
2	Golden Triangle Polymers Project
1	SIEMENS energy
0	ETHYLENE UNIT - 10
REV	DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)
0	COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242
1	CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE
2	DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
3/4"	92(3-9/16")	12(7/16")	27.2(1-1/16")	90(3-8/16")	135(5-5/16")	150(5-14/16")	3/4"	13.9(8/16")	2(4.40)



DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SCREWED END AS PER ASME B 1.20.1 (Edition 2013)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE :STANDARD
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO	SPECIALITY	QTY
4	3/4"	GASATH1	CA-1.6 MM, CSO	8

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-
GENERAL NOTES	
1. -	
GENERAL HOLDS	
1. -	
NOTES:	
1. -	
3	26.04.2024 FC OP KGM KGM
2	09.04.2024 FC OP KGM KGM
1	03.10.2023 IFA OP KGM KGM
0	22.09.2023 IFA OP KGM KGM
REV	DATE
DESCRIPTION	PREPD CHKD APPD
VENDOR NAME	
GOLDEN TRIANGLE POLYMERS COMPANY JKJV GTPP	
SIEMENS ENERGY	
PURCHASER JOB CODE	PURCHASE ORDER NO.
0-8936-2	P-215A-201-A
Golden Triangle Polymers Company LLC	
Golden Triangle Polymers Project	
ETHYLENE UNIT - 10	
EQUIPMENT NAME / ITEM TAG NO.	10-X-2400
DOCUMENT TITLE	DETAIL DRAWING OF VALVES (MANUAL)
COMPANY DWG. NO.	D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO.	V-215A-201-A-DGN-242
SCALE	NONE
DWG. NO.	SEI-DGN-242
SIZE	D
REV.	3

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PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

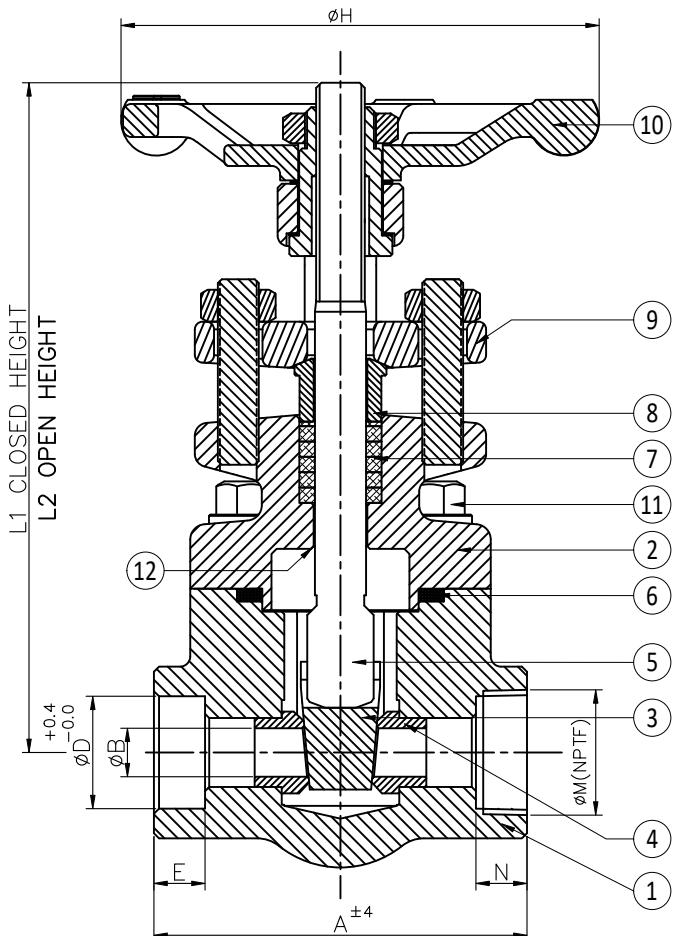


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SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
3/4"	92(3-9/16")	12(7/16")	27.2(1-1/16")	12.5(7/16")	90(3-8/16")	135(5-5/16")	150(5-14/16")	3/4"	13.9(8/16")	2(4.40)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 602 (Edition 2022) .
- FACE TO FACE :AS PER MANUFACTURER'S STD.
- END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :SOLID
- TYPE OF SEATRING :RENEWABLE
- TYPE OF BORE :STANDARD
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-5.
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
- PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER



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PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
1	3/4"	GASACE1	CA-1.6 MM	13

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
2. There is no Butt weld For RT

TEST STANDARD.: API 598	
TEST PRESSURE (800#)	PSIG Kg/cm ² g

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IF A	OP	KGM	KGM
0	22.09.2023	IF A	OP	KGM	KGM
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD



VENDOR NAME
SIEMENS energy
PURCHASER JOB CODE P-8936-2 PURCHASE ORDER NO. P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400

DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

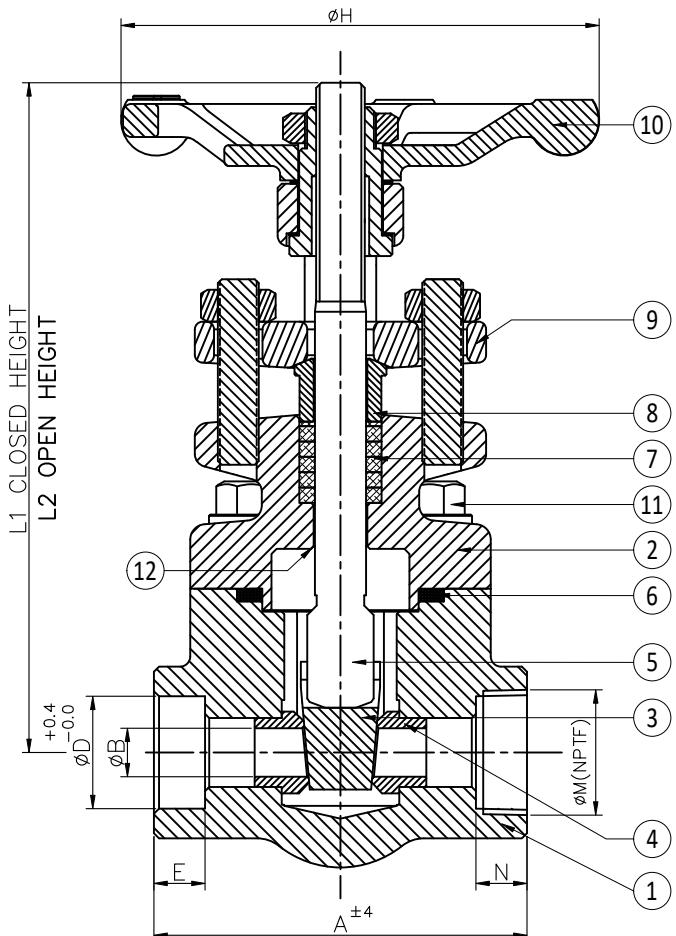
COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO. V-215A-201-A-DGN-242

SCALE NONE
DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	ØM	N	WT. (APP) KG/POUND
1"	105(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	116(4-9/16")	165(6-7/16")	186(7-5/16")	1"	17.3(10/16")	5(11.02)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 602 (Edition 2022) .
- FACE TO FACE :AS PER MANUFACTURER'S STD.
- END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016) SCREWED END AS PER ASME B 1.20.1
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF BONNET :BOLTED
- TYPE OF WEDGE :SOLID
- TYPE OF SEATRING :RENEWABLE
- TYPE OF BORE :STANDARD
- OPERATING TEMP :12°F TO 350°F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-5.
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
- PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER



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MANUFACTURER'S

PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
14	1"	GASACE1	CA-1.6 MM	6

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
2. There is no Butt weld For RT

2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IF A	OP	KGM	KGM
0	22.09.2023	IF A	OP	KGM	KGM
REV	DATE	DESCRIPTION	PREPD	CHKD	APPD



VENDOR NAME
SIEMENS
energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

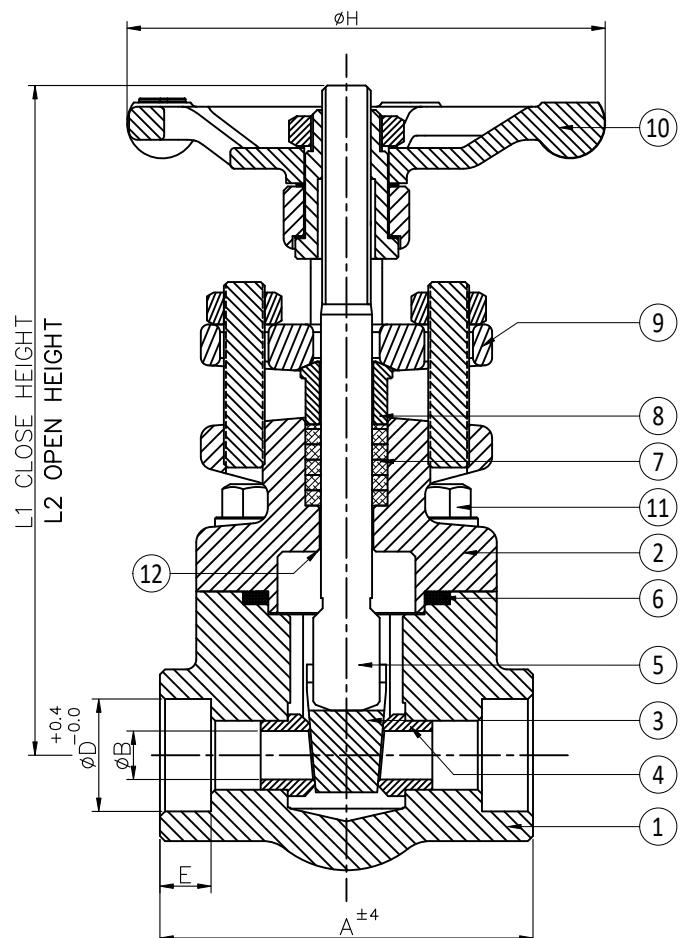
Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242

SCALE: NONE
DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
3/4"	106(4-2/16")	17(10/16")	27.2(1-1/16")	12.5(7/16")	116(4-9/16")	163(6-6/16")	184(7-3/16")	3.15(6.94)



MANUFACTURER'S
PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023
WO NO.: SODS23113
DATE:- 05.10.2023
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PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023
WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. : API 602 (Edition 2022) .
2. FACE TO FACE : AS PER MANUFACTURER'S STD.
3. END CONNECTION : SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD : API 598 (Edition 2016) .
5. TYPE OF BONNET : BOLTED
6. TYPE OF WEDGE : SOLID
7. TYPE OF SEATRING : RENEWABLE
8. TYPE OF BORE : FULL BORE
9. OPERATING TEMP : 12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-5.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
2	3/4"	GASASE2	CA-1.6 MM	11

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	IFA	OP	KGM	KGM
0	22.09.2023	IFA	OP	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



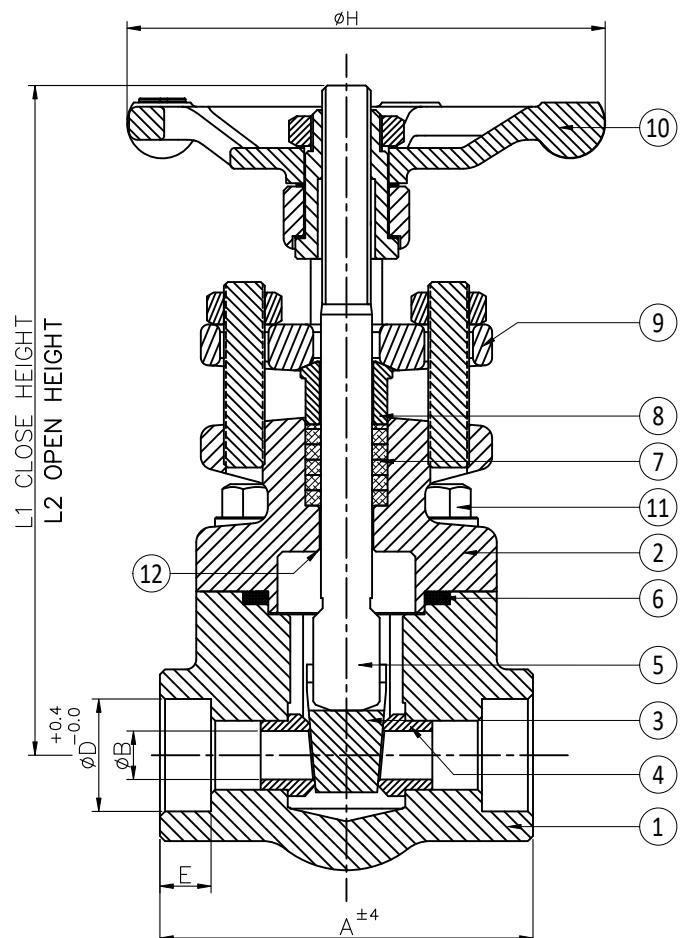
VENDOR NAME
SIEMENS energy
PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10 EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO.: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO.: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO.: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
3/4"	106(4-2/16")	17(10/16")	27.2(1-1/16")	12.5(7/16")	116(4-9/16")	163(6-6/16")	184(7-3/16")	3.15(6.94)



MANUFACTURER'S

PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

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PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-5.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
9	3/4"	GASASE2	CA-1.6 MM	6

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

3	26.04.2024	FC	OP	KGM	KGM
2	09.04.2024	FC	OP	KGM	KGM
1	03.10.2023	FA	OP	KGM	KGM
0	22.09.2023	FA	OP	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD



VENDOR NAME

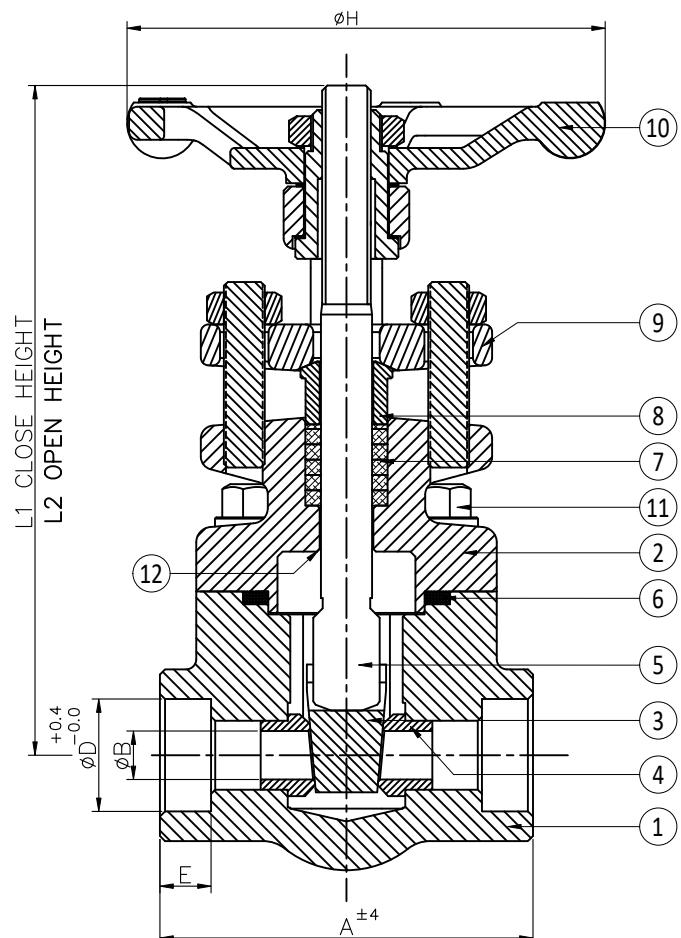
SIEMENS
energy

PURCHASER JOB CODE P-8936-2 PURCHASE ORDER NO. P-215A-201-A
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO. 10-X-2400
DOCUMENT TITLE DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO. D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO. V-215A-201-A-DGN-242 SCALE NONE
DWG. NO. SEI-DGN-242 SIZE D REV. 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
1"	127(5")	22(13/16")	33.9(1-5/16")	12.5(7/16")	150(5-14/16")	205(8-1/16")	238(9-5/16")	6.25(13.77)



MANUFACTURER'S



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PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023
WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-5.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
10	1"	GASASE2	CA-1.6 MM	11

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15 + STELLITE-6	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT



SIEMENS
energy

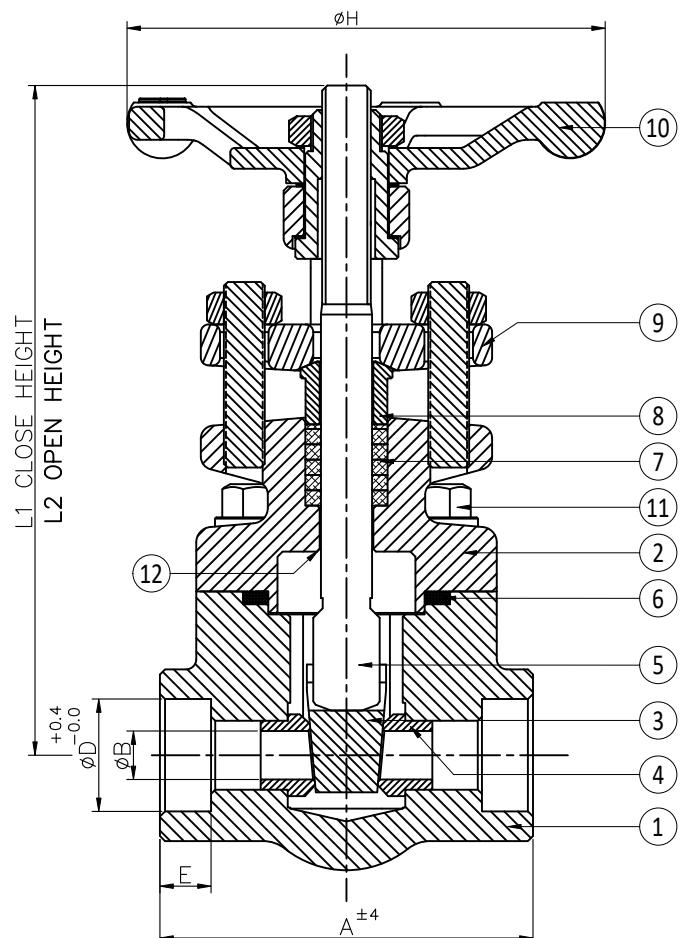
PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
3/4"	106(4-2/16")	17(10/16")	27.2(1-1/16")	12.5(7/16")	116(4-9/16")	163(6-6/16")	184(7-3/16")	3.15(6.94)



MANUFACTURER'S
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PO NO.: PO/23-24/451-R1.PO-622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
11	3/4"	GASASH2F	CA-1.6 MM, FET	6

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

1. -

GENERAL HOLDS

1. -

NOTES:

1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %. Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT



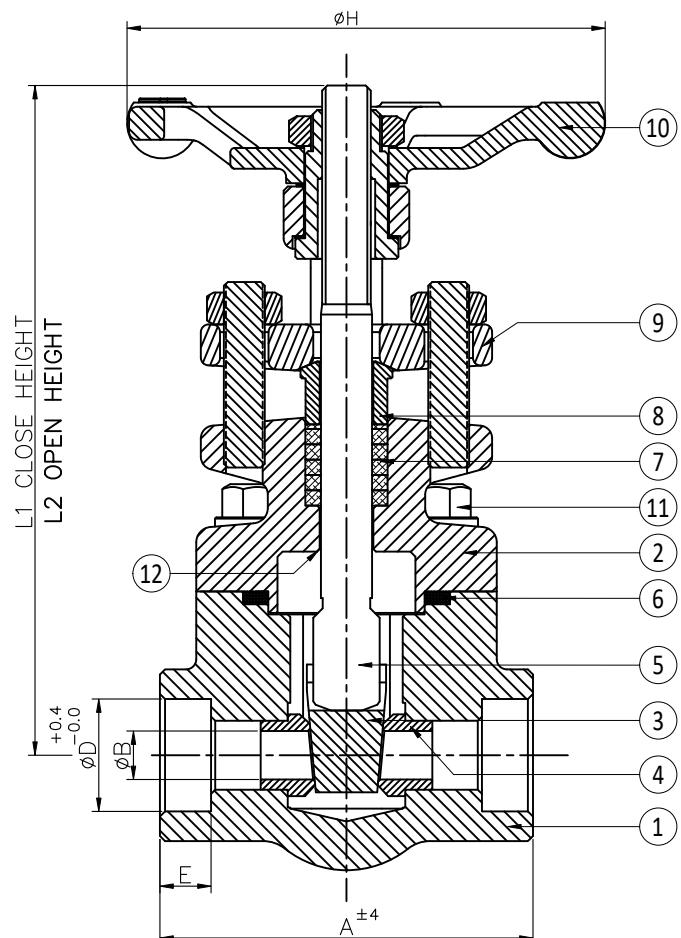
VENDOR NAME
SIEMENS energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A
Golden Triangle Polymers Company LLC Golden Triangle Polymers Project

ETHYLENE UNIT - 10
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242
CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE
DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	ØD	E	ØH	L1	L2	WT. (APP) KG/POUND
1"	127(5")	22(13/16")	33.9(1-5/16")	12.5(7/16")	150(5-14/16")	205(8-1/16")	238(9-5/16")	6.25(13.77)



MANUFACTURER'S



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PO NO.: PO/23-24/451-R1
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF BONNET :BOLTED
6. TYPE OF WEDGE :SOLID
7. TYPE OF SEATRING :RENEWABLE
8. TYPE OF BORE : FULL BORE
9. OPERATING TEMP :12°F TO 350°F
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
11. API TRIM-8.
12. CORROSION ALLOWANCE REQUIRED 1.6 MM
13. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
14. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
12	1"	GASASH2F	CA-1.6 MM, FET	2

TEST STANDARD.: API 598

TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

12	BACKSEAT (INTEGRAL)	STELLITE-6	-
11	BODY BOLT	ASTM A 193 Gr. B7	REQ
10	HANDWHEEL (NON RISING)	MALLEABLE IRON	1
9	GLAND FLANGE	ASTM A 105N	1
8	GLAND BUSH	13% Cr. STEEL	1
7	GLAND PACKING (RENEWABLE WITH VALVE OPEN ON STREAM)	PTFE	REQ
6	GASKET (ENCAPSULATED)	SPIRAL WOUND SS 316 + GRAPHITE	1
5	STEM (RISING)	13% Cr. STEEL (NO CASTING)	1
4	SEAT RING (RENEWABLE)	13% Cr. STEEL + STELLITE-6	2
3	WEDGE (SOLID)	ASTM A 217 Gr. CA15	1
2	BONNET (BOLTED)	ASTM A 105N	1
1	BODY	ASTM A 105N	1
Sr.No.	PART NAME	MATERIAL	QTY

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES

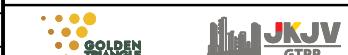
1. -

GENERAL HOLDS

1. -

NOTES:
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).

2. There is no Butt weld For RT



VENDOR NAME

SIEMENS energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

ETHYLENE UNIT - 10

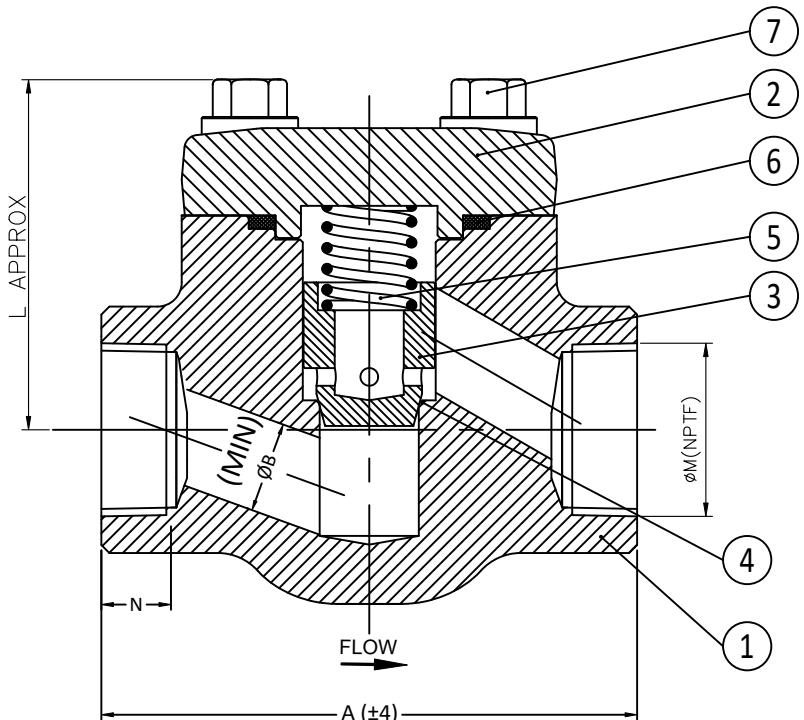
EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

COMPANY DWG. NO: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO: V-215A-201-A-DGN-242 SCALE: NONE

DWG. NO: SEI-DGN-242 SIZE: D REV: 3

SIZE	A	ØB	L	ØM	N	WT. (APP) KG
1"	106(4-2/16")	17(10/16")	66(2-9/16")	1"	17.3(10/16")	2.2(4.75)



MANUFACTURER'S

PO NO.: PO/23-24/451-R, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

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DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SCREWED NPT END AS PER ASME B 1.20.1 (Edition 2013)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF COVER : BOLTED
6. TYPE OF SEATING :INTEGRAL
7. TYPE OF BORE : STANDARD
8. OPERATING TEMP :12°F TO 350°F
9. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
10. API TRIM-8.
11. CORROSION ALLOWANCE REQUIRED 1.6 MM
12. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
13. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
6	1"	CLSATH1	CA-1.6 MM	6

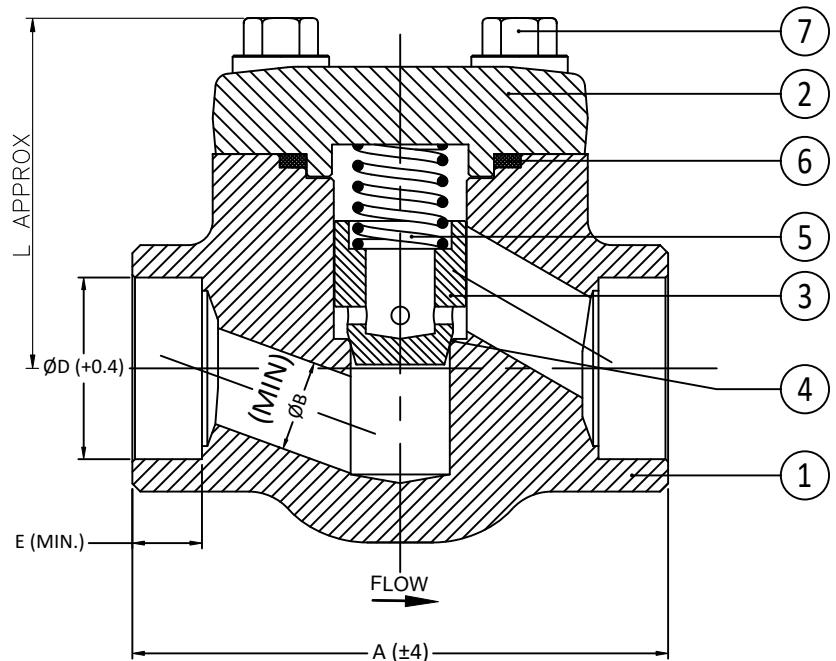
TEST STANDARD.: API 598			
TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

REFERENCE DRAWINGS					
DWG. NO.	DESCRIPTION				
-	-				
-	-				
-	-				
-	-				
-	-				
GENERAL NOTES					
1. -					
GENERAL HOLDS					
1. -					
NOTES:					
1. -					
3	26.04.2024 FC OP KGM KGM				
2	09.04.2024 FC OP KGM KGM				
1	03.10.2023 IFA OP KGM KGM				
0	27.10.2023 IFA OP KGM KGM				
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD
					
VENDOR NAME					
SIEMENS energy					
PURCHASER JOB CODE	PURCHASE ORDER NO.				
0-8936-2	P-215A-201-A				
Golden Triangle Polymers Company LLC					
Golden Triangle Polymers Project					
ETHYLENE UNIT - 10					
EQUIPMENT NAME / ITEM TAG NO.	10-X-2400				
DOCUMENT TITLE	DETAIL DRAWING OF VALVES (MANUAL)				
COMPANY DWG. NO.	D06-10-JKVN-215A-201-A-DGN-242				
CONTRACTOR DWG. NO.	V-215A-201-A-DGN-242				
SCALE	NONE				
DWG. NO.	SEI-DGN-242				
SIZE	D 3				
REV.	3				

SIZE	A	ØB	ØD	E (MIN)	L	WT. (APP) KG
1"	106(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	66(2-9/16")	2.2(4.75)

DESIGN FEATURES & SPECIFICATION :

1. MANUFACTURING STD. :API 602 (Edition 2022) .
2. FACE TO FACE :AS PER MANUFACTURER'S STD.
3. END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
4. TESTING STANDARD :API 598 (Edition 2016) .
5. TYPE OF COVER : BOLTED
6. TYPE OF SEATING :INTEGRAL
7. TYPE OF BORE : STANDARD
8. OPERATING TEMP :12°F TO 350°F
9. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
10. API TRIM-5.
11. CORROSION ALLOWANCE REQUIRED 1.6 MM
12. FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
13. PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER



MANUFACTURER'S

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PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
8	1"	CLSASE1	CA-1.6 MM	1

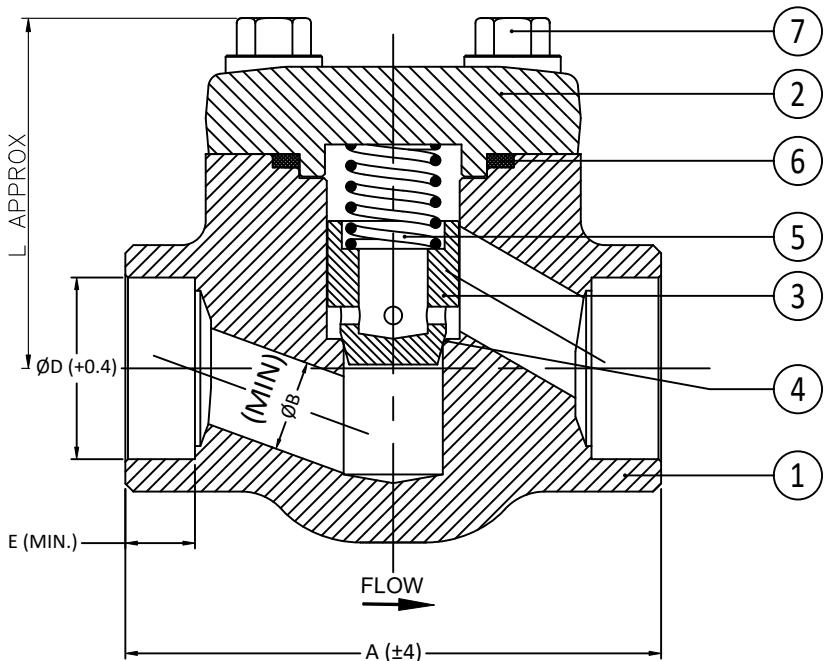
TEST STANDARD.: API 598			
TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

REFERENCE DRAWINGS					
DWG. NO.	DESCRIPTION				
-	-				
-	-				
-	-				
-	-				
-	-				
GENERAL NOTES					
1. -					
GENERAL HOLDS					
1. -					
NOTES:					
1. NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).					
2. There is no Butt weld For RT					
3	26.04.2024 FC OP KGM KGM				
2	09.04.2024 FC OP KGM KGM				
1	03.10.2023 IFA OP KGM KGM				
0	27.10.2023 IFA OP KGM KGM				
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD
  GOLDEN TRIANGLE POLYMERS COMPANY LLC JK JV GTPP					
VENDOR NAME					
 SIEMENS energy					
PURCHASER JOB CODE		PURCHASE ORDER NO.			
0-8936-2		P-215A-201-A			
Golden Triangle Polymers Company LLC					
Golden Triangle Polymers Project					
ETHYLENE UNIT - 10					
EQUIPMENT NAME / ITEM TAG NO.		10-X-2400			
DOCUMENT TITLE		DETAIL DRAWING OF VALVES (MANUAL)			
COMPANY DWG. NO.		D06-10-JKVN-215A-201-A-DGN-242			
CONTRACTOR DWG. NO.		V-215A-201-A-DGN-242			
SCALE		NONE			
DWG. NO.		SEI-DGN-242			
SIZE		D 3			

SIZE	A	ØB	ØD	E (MIN)	L	WT. (APP) KG
1"	106(4-2/16")	17(10/16")	33.9(1-5/16")	12.5(7/16")	66(2-9/16")	2.2(4.75)

DESIGN FEATURES & SPECIFICATION :

- MANUFACTURING STD. :API 602 (Edition 2022) .
- FACE TO FACE :AS PER MANUFACTURER'S STD.
- END CONNECTION :SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)
- TESTING STANDARD :API 598 (Edition 2016) .
- TYPE OF COVER : BOLTED
- TYPE OF SEATING :INTEGRAL
- TYPE OF BORE : STANDARD
- OPERATING TEMP :12F TO 350F
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- API TRIM-8.
- CORROSION ALLOWANCE REQUIRED 1.6 MM
- FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).
- PROCESS MEDIA- :STEAM/CONDENSATE, PROCESS WATER



MANUFACTURER'S



PO NO.: PO/23-24/451-R1, PO - 622
DATE:- 02.10.2023

WO NO.: SODS23113
DATE:- 05.10.2023

PO SR NO.	SIZE	TAG NO.	SPECIALITY	QTY
13	1"	CLSASH1	CA-1.6 MM	3

TEST STANDARD.: API 598			
TEST PRESSURE (800#)		PSIG	Kg/cm ² g
HYDRO	SHELL	2975	209
	SEAT & BACK SEAT	2175	153
PNEUMATIC	SEAT	80	6

REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD
3	26.04.2024	FC		OP	KGM KGM
2	09.04.2024	FC		OP	KGM KGM
1	03.10.2023	IFA		OP	KGM KGM
0	22.09.2023	IFA		OP	KGM KGM

REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
-	-
-	-
-	-
-	-

GENERAL NOTES	
1.	-

GENERAL HOLDS	
1.	-

NOTES:

- NDE Requirement as per pipe class specification section 12 Appendix C is 5 %, Applicable NDE is PT (Penetrant Testing) and MT (Magnetic particle Testing).
- There is no Butt weld For RT

3	26.04.2024	FC		OP	KGM	KGM
2	09.04.2024	FC		OP	KGM	KGM
1	03.10.2023	IFA		OP	KGM	KGM
0	22.09.2023	IFA		OP	KGM	KGM
REV.	DATE	DESCRIPTION	PREPD	CHKD	APPD	



VENDOR NAME
SIEMENS
energy

PURCHASER JOB CODE: 0-8936-2 PURCHASE ORDER NO: P-215A-201-A

Golden Triangle Polymers Company LLC
Golden Triangle Polymers Project

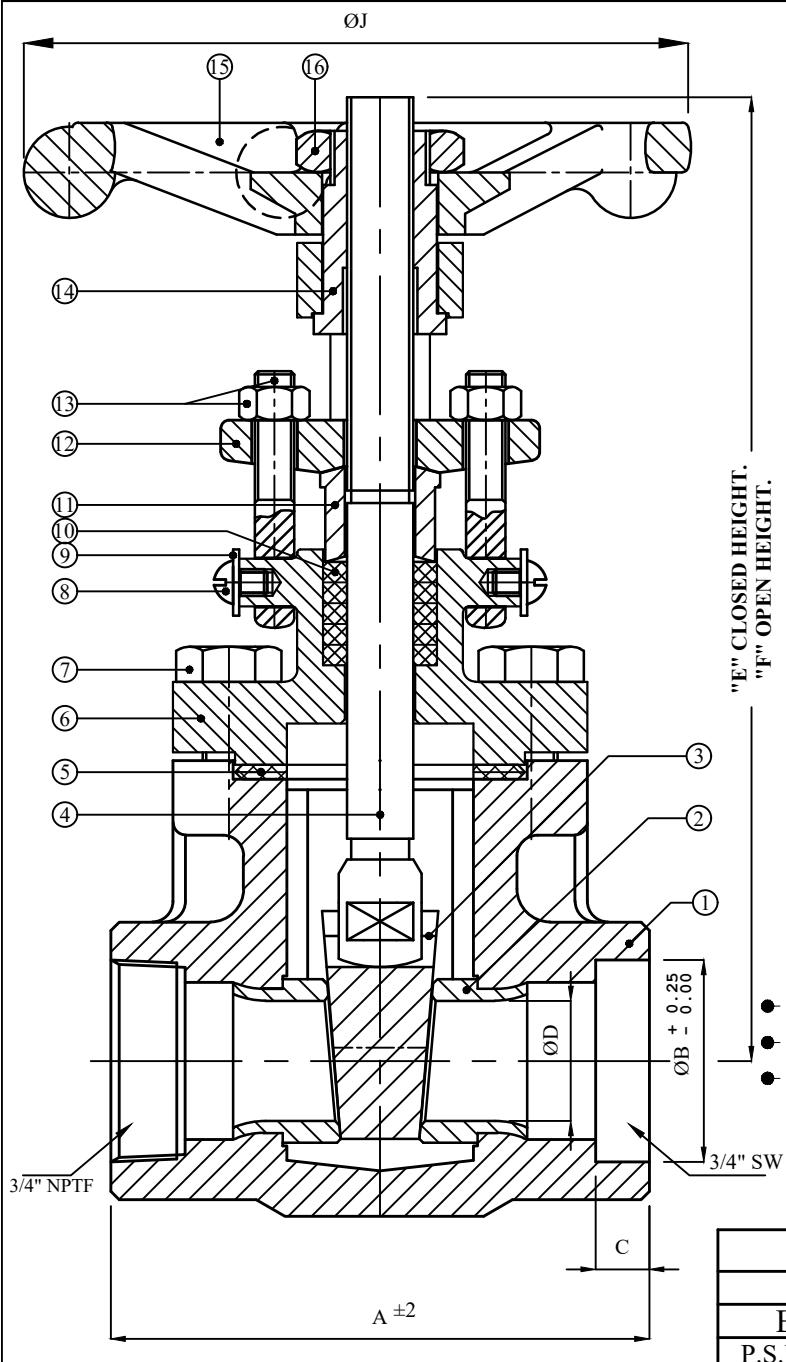
ETHYLENE UNIT - 10

EQUIPMENT NAME / ITEM TAG NO.: 10-X-2400
DOCUMENT TITLE: DETAIL DRAWING OF VALVES (MANUAL)

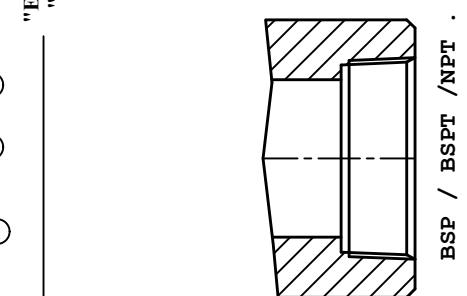
COMPANY DWG. NO.: D06-10-JKVN-215A-201-A-DGN-242

CONTRACTOR DWG. NO.: V-215A-201-A-DGN-242

SCALE: NONE
DWG. NO.: SEI-DGN-242 SIZE: D REV: 3



S.NO	DESCRIPTION	QTY.	MATERIAL
1	BODY	1	ASTM-A-182 F 316
2	SEAT RING	2	AISI - 316
3	WEDGE	1	AISI - 316
4	SPINDLE	1	AISI - 316
5	GASKET	1	SPIRAL WOUND SS 316 + GRAPHITE
6	BONNET	1	ASTM-A-182 F316
7	BONNET BOLT	4	SS 316
8	SCREW	2	SS 316
9	WASHER	2	SS 316
10	PACKING	AS REQ	TEFLON / TEFLON I.M.P PTFE
11	GLAND	1	AISI-316
12	GLAND FLANGE	1	AISI-316
13	EYE BOLT & NUT	2	STAINLESS STEEL AISI-SS316
14	YOKE SLEEVE	1	
15	HAND WHEEL	1	SS 316
16	HAND WHEEL NUT	1	SS 316



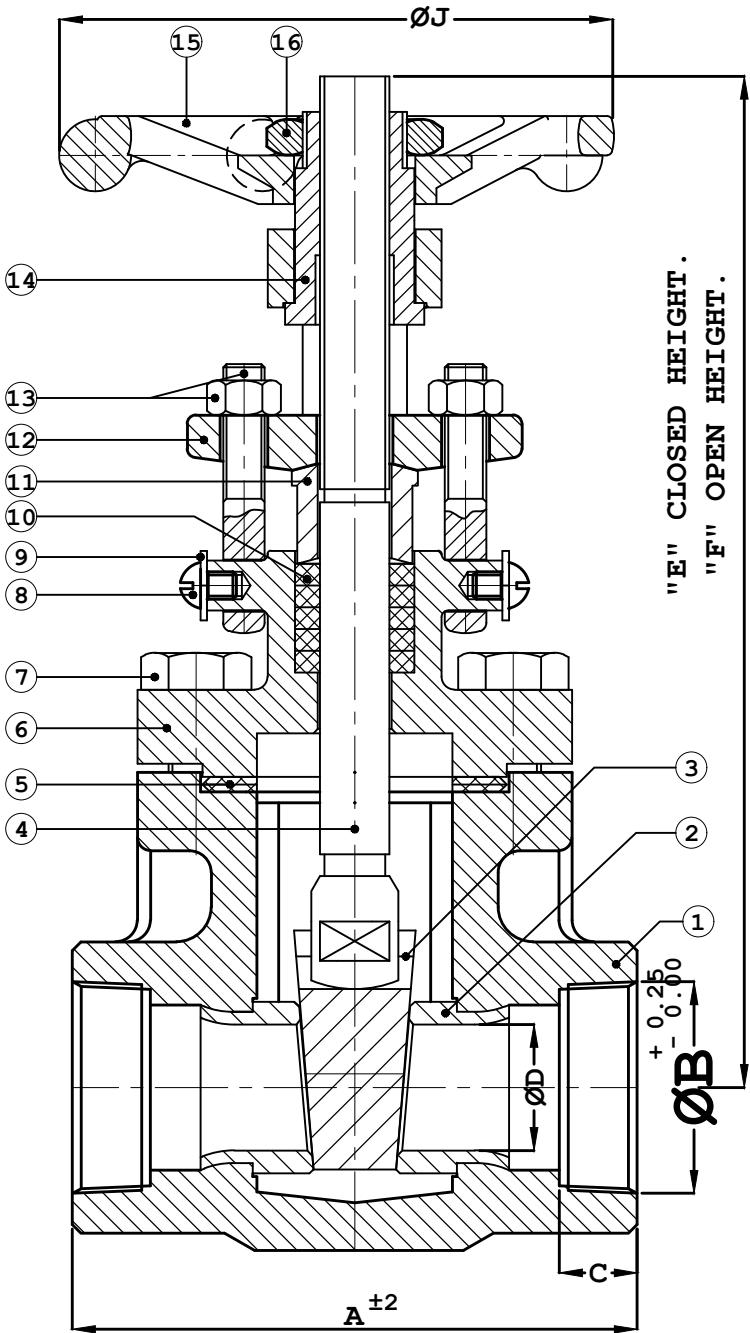
TEST PRESSURE CLASS 800 #					
HYDROSTATIC			AIR		
P.S.I.	KG/CM ²	P.S.I.	KG/CM ²	P.S.I.	KG/CM ²
3000	211	2000	141	100	7

- VALVE SHALL CONFIRMS TO API TRIM 12
- CORROSION ALLOWANCE CONFIRM TO 1.6 MM
- OPERATING TEMP : 12 TO 350F
- ALL DIMENSIONS ARE IN MM
- ALL MATERIAL SHOULD BE SS 316
- TOLERANCE : 1.5MM

SOCKET WELD END AS PER ASME B16.11, CLASS 3000# (Edition 2016)							
SIZE	A	B	C	D	E	F	J
20	90	27.1	12.7	12.7	157	174	100

1. Valve shall confirm to Low Emission
2. Tag No - GASMCM1F
3. QTY - 16

NAME OF MANUFACTURER :	TITLE : FORGED STAINLESS STEEL GATE VALVE 3/4" NPTF X 3/4" SW CLASS - 800#					
 METAL TUBES <small>INDIA PVT. LTD.</small>	NAME OF CUSTOMER :	DATE	SCALE	DRAWN BY	CHECKED BY	APPD BY
		19.03.24	NTS.	T.I.K	P.P.P.	S.M.M.
DRG. NO. : MTI/GV/17	REV. 00			SHEET	1 OF 1	



S.NO	DESCRIPTION	QTY.	MATERIAL	S.NO	DESCRIPTION	QTY.	MATERIAL
1	BODY	1	ASTM - A - 105	9	WASHER	2	CARBON STEEL
2	SEAT RING	2	AISI - 410	10	G. PACKING	AS REQ	PTEF
3	WEDGE	1	AISI - 410	11	GLAND	1	AISI - 410
4	SPINDLE	1	SS 316	12	GLAND FLANGE	1	ASTM - A - 105
5	GASKET	1	SPIRAL WOUND SS 316 + GRAPHITE	13	EYE BOLT & NUT	2	CARBON STEEL
6	BONNET	1	ASTM - A - 105	14	YOKE SLEEVE	1	SG. IRON
7	BONNET BOLT	4	ASTM-A-193 GR . B7	15	HAND WHEEL	1	C.I / M.I
8	SCREW	2	CARBON STEEL	16	HAND WHEEL NUT	1	CARBON STEEL

- MANUFACTURING STD - API - 602
- SCREWED END AS PER ASME B 1.20.1(ED 2013)
- TESTING STD - API - 598 / BS 5146

TEST PRESSURE CLASS 800 #

HYDROSTATIC		AIR	
BODY	SEAT	SEAT	
P.S.I.	KG/CM ²	P.S.I.	KG/CM ²

3000 211 2000 141 100 7

SOCKET WELD END						
SIZE	A	B	C	D	E	F
25	105	33.78	12.7	17.46	172	194

- VALVE SHALL CONFIRMS TO API TRIM 8
- CORROSION ALLOWANCE CONFIRM TO 1.6 MM
- OPERATING TEMP : 12 TO 350F
- ALL DIMENSIONS ARE IN MM
- ALL TOLERANCE : 1.5MM

Tag No -GASATH1

Qty - 98

FOR PAINTING OF VALVE REFER PAINTING PROCEDURE OF EQUIPMENT DOCUMENT (V-215A-201-A-PLN-730).

NAME OF MANUFACTURER :



METAL TUBES
INDIA PVT. LTD

TITLE : FORGED CARBON STEEL GATE VALVE 1" NPTF CLASS - 800#

NAME OF CUSTOMER :

DATE SCALE DRAWN BY CHECKED BY APPD BY

19.03.24 NTS. T.I.K P.P.P S.M.M.

DRG. NO. : MTI/GV/22 REV. 00

SHEET 1 OF 1

 JKJV <small>GTPP</small>	Golden Triangle Polymers Project			Document Title: DETAIL DRAWING OF VALVES (MANUAL) Document No.: V-215A-201-A-DGN-232 Rev. No.: 2 Vendor Name: Sparkle Clean Tech Pvt. Ltd.				
	COMMENT RESOLUTION SHEET							
	S.No.	Ref Doc No./Title	Ref. Clause	Discipline	JGC Comments	Vendor Response		
					Date:	Date:	Status Closed/ Open	
1	V-215A-201-A-DGN-232	Page No - 1	Mechanical	add note in the document if no butt weld for RT (typical for all the drawings)		Noted and Updated		
2	V-215A-201-A-DGN-232	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		