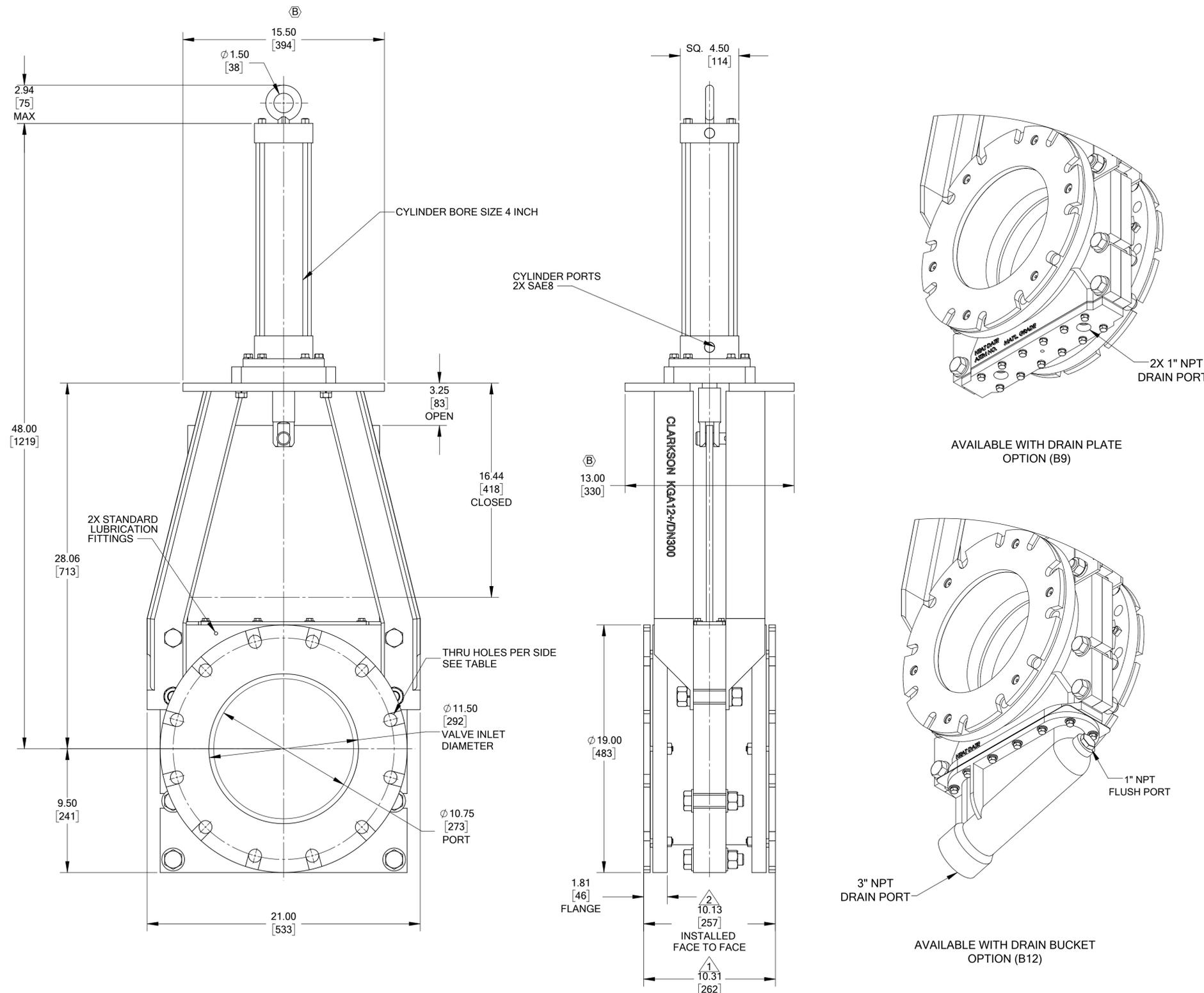


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	DRAWNBY
	A	INITIAL RELEASED	06-FEB-2019	MSK
(B)	B	UPDATED MOD FRAME DIM & NOTES	21-MAY-21	ABW
(C)	C	UPDATED FLANGE INSTALLATION NOTES	20-JUN-2022	ASK



FLANGE STD	FLANGE TBL	PCD	NO. BOLTING HOLES	CLEARANCE HOLE SIZE	THREAD SIZE
ASME B16.5	150	17.00 in	12	1.00 in	-
ASME B16.5	150	17.00 in	12	-	7/8-9 UNC
EN1092	PN10	400 mm	12	-	M20 X 2.5
EN1092	PN16	410 mm	12	-	M24 X 3.0
AS2129	D	406mm	12	-	M20 X 2.5
AS2129	E	406mm	12	-	M24 X 3.0
SANS1123	T1000	400 mm	12	-	M20 X 2.5

PIPE/FLANGE SPECIFICATIONS:

- MINIMUM GAP IN PIPELINE REQUIRED FOR INSTALLATION
- INSTALLED FACE-TO-FACE DIMENSION SHOWN WITH COMPRESSED RETAINER FLANGE PROVIDING A GASKET SEAL
- WHERE PIPEWORK HAS INSUFFICIENT AXIAL MOVEMENT TO ACCOUNT FOR MINIMUM GAP IN PIPELINE REQUIRED FOR INSTALLATION - AN EXPANSION JOINT SHOULD BE CONSIDERED
- USE OF FLANGE GASKETS IS NOT REQUIRED OR RECOMMENDED - RUBBER-LINED RETAINER FLANGES ACT AS FLANGE GASKET BETWEEN VALVE AND PIPE FLANGE
- FLANGE BOLT TORQUE REQUIREMENTS
 - 65 FT-LBS (88 Nm) MINIMUM FLANGE BOLT TORQUE REQUIRED TO INSTALL VALVE
 - 186 FT-LBS (252 Nm) MAXIMUM FLANGE BOLT TORQUE TO PREVENT DAMAGE TO VALVE AND FOR EFFECTIVE VALVE OPERATION
- PIPE FLANGE DIMENSIONS
 - MAXIMUM INSIDE DIAMETER FOR METAL FLANGE NO GREATER THAN ASME B16.5 TABLE 8 COLUMN 11
 - WHEN INSIDE DIAMETER PIPE FLANGE IS GREATER THAN VALVE INLET DIAMETER - SLEEVE AND RETAINER FLANGE MAY BE SUBJECT TO ADDITIONAL WEAR
 - MAXIMUM OUTSIDE DIAMETER TO BE PER ASME B16.5
- RUBBER LINING ON PIPE FLANGE FACE TO HAVE A MINIMUM HARDNESS OF 40 SHORE A AND MAXIMUM THICKNESS 1/4" (6mm) AND CONSIDER THE FOLLOWING
 - BASED ON TESTING WITH CLEAN WATER AND LEGACY USE OF EMERSON VALVES
 - SOFT RUBBER LINING MUST BE USED WITHIN MANUFACTURER'S RECOMMENDATIONS FOR COMPRESSION AND THERE IS AN EFFECTIVE BOND BETWEEN RUBBER LINING AND PIPE FLANGE
 - THICK SOFT RUBBER LINING MAY CAUSE FLANGE BOLT TORQUE TO REDUCE OVER-TIME - WHICH MAY CAUSE LOSS OF ISOLATION PERFORMANCE AND OR DAMAGE TO RESILIENT VALVE PARTS
 - RE-TORQUE MAINTENANCE INTERVAL IS REQUIRED TO MAINTAIN MINIMUM FLANGE BOLT TORQUE
- CONSULT EMERSON FOR ADVICE IF ANY REQUIREMENT CANNOT BE MET AS DEVIATIONS MAY BE POSSIBLE DEPENDING ON APPLICATION
- 150 FLANGE WITH THREADED FLANGE HOLES - AVAILABLE AS OPTION

NOTES:

- MAXIMUM ALLOWABLE WORKING PRESSURE IS 100 PSI [690 kPa] - HIGHER OPTIONAL PRESSURE RATING POSSIBLE WITH SELECTED GATE MATERIALS
VALVE PRESSURE RATING MAY BE LIMITED TO LOWER VALUE BY SELECTED FLANGE PATTERN
- MINIMUM REQUIRED HYDRAULIC CYLINDER SUPPLY PRESSURE TO OPERATE VALVE IS 900 PSI [6205 kPa], MAXIMUM 3000 PSI [20684 kPa]
- RECOMMENDED MAXIMUM LINEAR GATE TRAVEL SPEED IS 1 INCH/SECOND
- APPROXIMATE WEIGHT OF ASSEMBLY IS 438 LBS
- ENVELOPE DIMENSION TOLERANCES ARE WITHIN +/- 10%
- VALVES ARE NORMALLY SHIPPED WITH GATE IN FULLY OPEN POSITION - VALVES MUST BE INSTALLED WITH GATE IN FULLY OPEN POSITION
- OPTIONAL DRAIN PLATE AND DRAIN BUCKET AS SHOWN
- FRAMES AND GATES CONTAIN MOUNTING HOLES (NOT PICTURED) FOR INSTALLATION OF ANY STANDARD ACCESSORY USING HAND TOOLS

	Size: D	First Issue: 06-FEB-19	Drawing Release Location:
	Units: Inch	Latest Issue: 20-JUN-22	RENO
Drawn By: MSK	CLARKSON, KGA+		
Checked By: NBP	12", 100 PSI, KGV		
Approved By: JG	HC ACTUATOR, RDC-04		
Sheet: 1 OF 1	Drawing No. KGA+-12-01-1000		
Scale: NTS	Rev. C		