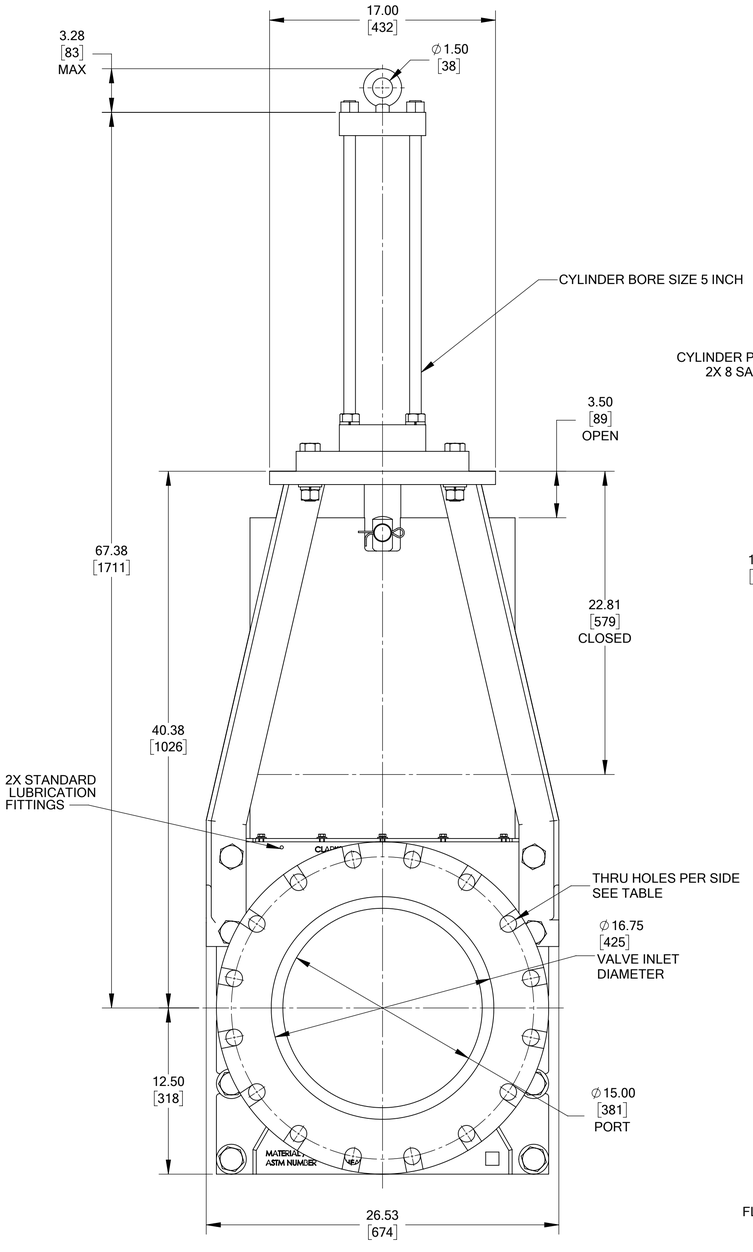
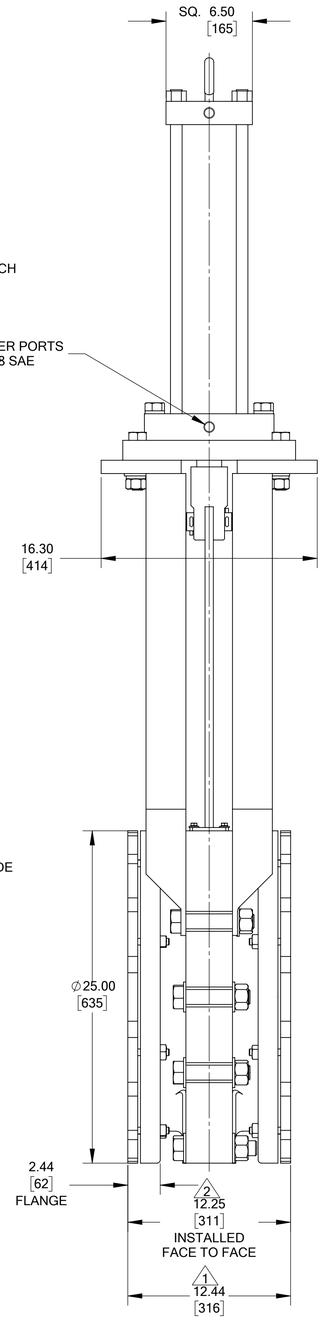
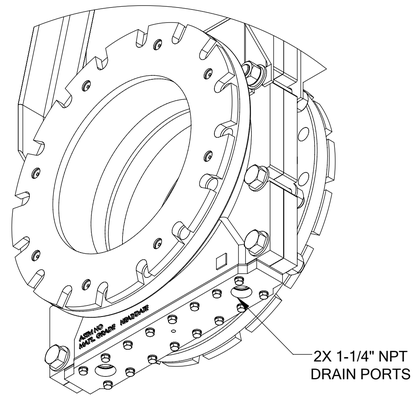
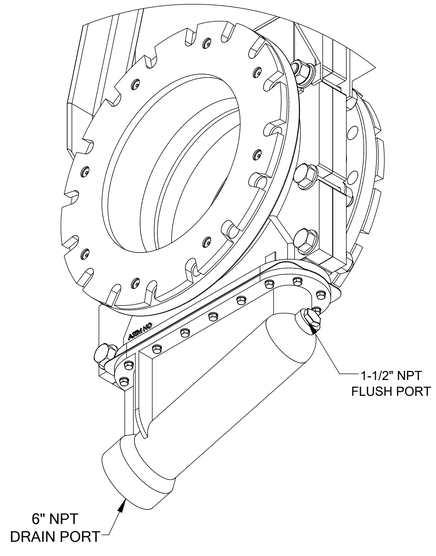
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	DRAWN BY
	A	INITIAL RELEASED	06-FEB-19	MSK
Ⓑ	B	UPDATED NOTES	21-MAY-21	ABW
Ⓒ	C	UPDATED FLANGE INSTALLATION NOTES	20-JUN-2022	ASK







AVAILABLE WITH DRAIN PLATE
OPTION (B9)



AVAILABLE WITH DRAIN BUCKET
OPTION (B12)

FLANGE CONNECTION COMPLIANCE TABLE					
FLANGE STD	FLANGE TBL	PCD	NO. BOLTING HOLES	CLEARANCE HOLE SIZE	THREAD SIZE
ASME B16.5	150	22.75 in	16	1.25 in	-
△9 ASME B16.5	150	22.75 in	16	-	1-1/8-7 UNC
EN1092	PN10	565 mm	20	-	M24 X 3.0
EN1092	PN16	585 mm	20	-	M27 X 3.0
AS2129	D	584 mm	12	-	M24 X 3.0
AS2129	E	584 mm	16	-	M24 X 3.0
SANS1123	T1000	565 mm	20	-	M24 X 3.0

Ⓒ

PIPE/FLANGE SPECIFICATIONS:

△1. MINIMUM GAP IN PIPELINE REQUIRED FOR INSTALLATION

△2. INSTALLED FACE-TO-FACE DIMENSION SHOWN WITH COMPRESSED RETAINER FLANGE PROVIDING A GASKET SEAL

3. WHERE PIPEWORK HAS INSUFFICIENT AXIAL MOVEMENT TO ACCOUNT FOR MINIMUM GAP IN PIPELINE REQUIRED FOR INSTALLATION - AN EXPANSION JOINT SHOULD BE CONSIDERED
4. USE OF FLANGE GASKETS IS NOT REQUIRED OR RECOMMENDED - RUBBER-LINED RETAINER FLANGES ACT AS FLANGE GASKET BETWEEN VALVE AND PIPE FLANGE
5. FLANGE BOLT TORQUE REQUIREMENTS
   a. 140 FT-LBS (190 Nm) MINIMUM FLANGE BOLT TORQUE REQUIRED TO INSTALL VALVE
   b. 264 FT-LBS (358 Nm) MAXIMUM FLANGE BOLT TORQUE TO PREVENT DAMAGE TO VALVE AND FOR EFFECTIVE VALVE OPERATION
6. PIPE FLANGE DIMENSIONS
   a. MAXIMUM INSIDE DIAMETER FOR METAL FLANGE NO GREATER THAN ASME B16.5 TABLE 8 COLUMN 11
   b. WHEN INSIDE DIAMETER PIPE FLANGE IS GREATER THAN VALVE INLET DIAMETER - SLEEVE AND RETAINER FLANGE MAY BE SUBJECT TO ADDITIONAL WEAR
   c. MAXIMUM OUTSIDE DIAMETER TO BE PER ASME B16.5
7. 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
   a. BASED ON TESTING WITH CLEAN WATER AND LEGACY USE OF EMERSON VALVES
   b. SOFT RUBBER LINING MUST BE USED WITHIN MANUFACTURER'S RECOMMENDATIONS FOR COMPRESSION AND THERE IS AN EFFECTIVE BOND BETWEEN RUBBER LINING AND PIPE FLANGE
   c. 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
   d. RE-TORQUE MAINTENANCE INTERVAL IS REQUIRED TO MAINTAIN MINIMUM FLANGE BOLT TORQUE
8. CONSULT EMERSON FOR ADVICE IF ANY REQUIREMENT CANNOT BE MET AS DEVIATIONS MAY BE POSSIBLE DEPENDING ON APPLICATION

△9. 150 FLANGE WITH THREADED FLANGE HOLES - AVAILABLE AS OPTION

NOTES:

1. 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
2. MINIMUM REQUIRED HYDRAULIC CYLINDER SUPPLY PRESSURE TO OPERATE VALVE IS 900 PSI [6205 kPa], MAXIMUM 3000 PSI [20684 kPa]
3. RECOMMENDED MAXIMUM LINEAR GATE TRAVEL SPEED IS 1 INCH/SECOND
4. APPROXIMATE WEIGHT OF ASSEMBLY IS 1000 LBS
5. ENVELOPE DIMENSION TOLERANCES ARE WITHIN +/- 10%
6. VALVES ARE NORMALLY SHIPPED WITH GATE IN FULLY OPEN POSITION - VALVES MUST BE INSTALLED WITH GATE IN FULLY OPEN POSITION
7. OPTIONAL DRAIN PLATE AND DRAIN BUCKET AS SHOWN
8. FRAMES AND GATES CONTAIN MOUNTING HOLES (NOT PICTURED) FOR INSTALLATION OF ANY STANDARD ACCESSORY USING HAND TOOLS Ⓑ

EMERSON
CLARKSON

Size: D	First Issue: 06-FEB-19	Drawing Release Location: RENO	
Units: Inch	Latest Issue: 20-JUN-22		
Drawn By: MSK	CLARKSON, KGA+		
Checked By: NBP	18'', 100 PSI, KGV		
Sheet: 1 OF 1	Approved By: CC	HC ACTUATOR, RDC-05	
Scale: NTS	Drawing No. KGA+-18-01-1000	Rev. C	

CONFIDENTIALITY NOTE - This document/program, including the content, is property of Emerson and must be held in strict confidence and protected / safeguarded by the recipient at all times. It may not be copied or used in whole or in part by the recipient or any other party, except with written consent of an appropriate officer of Emerson, and any authorized copy or reproduction must include this admonition. The recipient may use the same only for the purpose for which Emerson has provided it to the recipient. The document must be returned to Emerson upon request. By accepting this document/program, the recipient agrees to the foregoing.