

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

FLANGE CONNECTION COMPLIANCE TABLE					
FLANGE STD.	FLANGE TBL.	PCD	NO. BOLTING HOLES	CLEARANCE HOLE SIZE	THREAD
ASME B16.47	150	69.25 in	52	2.00 in	-
ASME B16.47	150	69.25 in	52	-	1-3/4-5 UNC

(B)
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. 600 FT-LBS (813 Nm) MINIMUM FLANGE BOLT TORQUE REQUIRED TO INSTALL VALVE

b. 1000 FT-LBS (1356 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 60.25"

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 B16.47 SERIES A
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 30 PSI [207 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 1800 PSI [12410 kPa], MAXIMUM 3000 PSI [20684 kPa]
3. RECOMMENDED MAXIMUM LINEAR GATE TRAVEL SPEED IS 1 INCH/SECOND
4. APPROXIMATE WEIGHT OF ASSEMBLY IS 9844 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 AS SHOWN

		Size: D	First Issue: 21-FEB-19	Drawing Release Location: RENO
		Units: Inch	Latest Issue: 20-JUN-22	
		Drawn By: MSK	CLARKSON, KGA+ 60", 30 PSI, KGV HC ACTUATOR, RDC-08	
		Checked By: NBP		
		Approved By: CC		
Sheet: 1 OF 1			Drawing No.	Rev.
Scale: NTS			KGA+-60-01-1000	B
<small>CONFIDENTIALITY NOTE: This document/program, including the content, is property of Emerson and must be held in strict confidence and properly safeguarded by the recipient at all times. It may not be copied or reproduced, or provided or revealed to any other party, except with prior written authorization of an appropriate officer of Emerson, and any authorized copy or reproduction must include this authorization. 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.</small>				