

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	DRAWN BY
	A	INITIAL RELEASED	04-FEB-2019	MSK
(B)	B	UPDATED MOD FRAME DIM & NOTES	21-MAY-21	ABW
(C)	C	UPDATED FLANGE INSTALLATION NOTES	20-JUN-2022	ASK


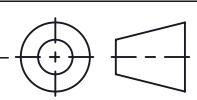
FLANGE CONNECTION COMPLIANCE TABLE				
FLANGE STD	FLANGE TBL	PCD	NO. BOLTING HOLES	THREAD SIZE
ASME B16.5	150	14.25 in	12	7/8-9 UNC
EN1092	PN10	350 mm	12	M20 X 2.5
EN1092	PN16	355 mm	12	M24 X 3.0
AS2129	D	356 mm	8	M20 X 2.5
AS2129	E	356 mm	12	M20 X 2.5
SANS1123	T1000	350 mm	12	M20 X 2.5

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
  - 128 FT-LBS (174 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

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 PNEUMATIC CYLINDER SUPPLY PRESSURE TO OPERATE VALVE IS 75 PSI [517 kPa], MAXIMUM 150 PSI [1034 kPa]
- RECOMMENDED MAXIMUM LINEAR GATE TRAVEL SPEED IS 1 INCH/SECOND
- APPROXIMATE WEIGHT OF ASSEMBLY IS 280 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: 04-FEB-19	Drawing Release Location: RENO
		Units: Inch	Latest Issue: 20-JUN-22	
		Drawn By: MSK	CLARKSON, KGA+ 10", 100 PSI, KGV AC ACTUATOR, RDC-08	
		Checked By: NBP		
		Approved By: JG		
Sheet: 1 OF 1				
Scale: NTS				
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Drawing No.			Rev.	
KGA+-10-01-1001			C	