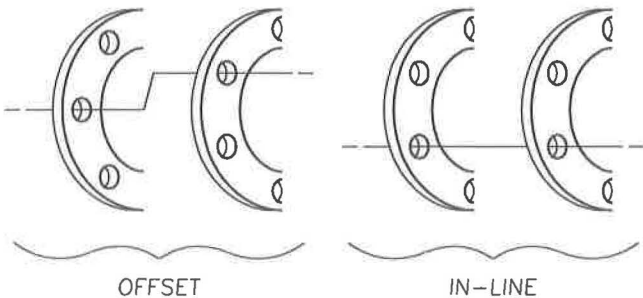



VALVES ADJACENT TO FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS LISTED BELOW:

- METHOD 1** - MAY BE USED ONLY WITH IN-LINE BOLT ALIGNMENT OF VALVE & FITTING. SEE CHART BELOW FOR NUMBER OF ALL THREADS. ALL-THREADS AND NUTS SHALL BE STAINLESS STEEL AND SHALL BE COATED WITH HENRY'S #204 ROOF CEMENT, OR EQUAL. THIS METHOD MAY BE USED ONLY WITH APPROVAL OF THE CITY WATER DEPARTMENT.
- METHOD 2** - MAY BE USED WITH EITHER OFFSET OR IN-LINE BOLT ALIGNMENT.
- METHOD 3** - FLANGE-TO-FLANGE BOLTED CONNECTION MAY BE USED.
- METHOD 4** - RETAINER GLANDS MAY BE USED WITH DUCTILE IRON PIPE ONLY, SUBJECT TO CITY APPROVAL. RETAINER GLANDS MAY NOT BE USED ON FIRE HYDRANT LATERALS.
- METHOD 5** - SWIVEL GLAND & INTEGRAL RETAINING LIP CONNECTIONS MAY BE USED.



BOLT HOLE ALIGNMENT

METHOD 1	
PIPE SIZE (INCHES)	NO. OF ALL-THREADS (MIN.)
4	2
6, 8, 10	4
12, 14	6
OVER 14	TO BE DETERMINED IN FIELD

REVISIONS	DATE		CITY OF TULARE PUBLIC IMPROVEMENT STANDARD VALVE TO FITTING RESTRAINT	DRAWING NO.:
				6330
			Approved By: <i>Michael W. Miller</i>	1 OF 1
			Date: 11/15/16 City Engineer	