



HORIZONTAL BEND

VERTICAL OFFSET

POLY WRAPPED DUCTILE IRON					
DIAMETER	11.25'	22.5'	45'	90'	VALVE / DEAD END
8"	4'	7'	14'	33'	120'
12"	5'	9'	19'	46'	169'
PVC					
DIAMETER	11.25'	22.5'	45'	90'	VALVE / DEAD END
8"	3'	6'	12'	29'	78'
12"	4'	8'	17'	40'	110'

POLY WRAPPED DUCTILE IRON						
DIAMETER	11.25'		22.5'		45'	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
6"	9'	3'	19'	5'	38'	11'
8"	12'	4'	24'	7'	50'	14'
12"	17'	5'	34'	9'	70'	19'
PVC						
DIAMETER	11.25'		22.5'		45'	
	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER
6"	6'	3'	12'	5'	25'	9'
8"	8'	3'	16'	6'	32'	12'
12"	11'	4'	22'	8'	46'	17'

Notes:

- Regardless of restraint length shown, a minimum of one full length pipe spool shall be installed immediately adjacent to the fitting.
- All horizontal mechanical joint bends, tees, and reducers that require blocking will be additionally restrained per standard details W-8.
- 16" and greater will require engineer sealed design and submitted for approval.
- Restraint lengths shall be shown on construction plans.
- All external mechanical restraints shall be wrapped with HDPE protective barrier.

