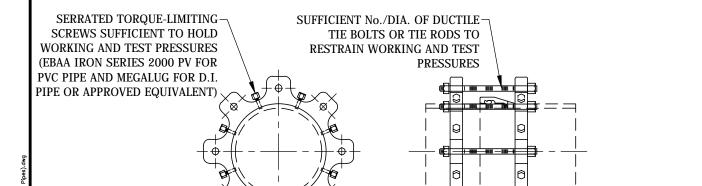


RESTRAINED JOINTS ON MECHANICAL JOINT PIPE & FITTINGS



RESTRAINED JOINTS ON SLIP JOINT PIPE

SLIP JOINT PIPE

(USING GRIPPING TYPE RETAINERS)

MINIMUM FOOTAGE OF RESTRAINED PIPE FOR VARIOUS DIAMETERS & DEGREES CAST & DUCTILE IRON ELBOWS

	COVER	DEGREE OF ELBOW							DEDVICED
		11 ¹ /4°	22 ¹ /2°	45°	90°	VERTICAL 4	OFFSET 5°	BRANCH OF TEE	REDUCER (LARGE SIDE ONLY)
	DIA. MAIN	3'	3'	3'	3'	UPPER BEND (3')	LOWER BEND (3')	3'	3'
	6"	2'	5'	10'	25'	49'	10'	9'	159'
	10"	4'	8'	16'	39'	77'	15'	119'	107'
	12"	5'	9'	19'	47'	90'	36'	163'	N/A





RESTRAINED JOINTS (MECHANICAL JOINT AND SLIP JOINT PIPES)

Approved: 06/09/15		Adopted: 06/09/15	Figure DW09
Approved By: Michael D.	Labitzke, P.E.	Scale: N.T.S.	DWU9