

THRUST BLOCK SIZING FOR 250 PSI PRESSURE

MIN. BEARING AREA AGAINST UNDISTURBED SOIL IN SQUARE FEET.

PIPE SIZE	A	B	©	0	Ē
4"	3/(2)	2/(1)	2/(1)	1/(1)	1/(1)
6"	6/(4)	4/(3)	3/(2)	2/(1)	1/(1)
8"	10/(7)	7/(5)	5/(4)	3/(2)	2/(1)
10"	15/(10)	11/(7)	8/(5)	4/(3)	2/(2)
12"	22/(14)	15/(10)	12/(8)	6/(4)	3/(2)
14"	29/(20)	21/(14)	16/(11)	8/(5)	4/(3)
16"	38/(26)	27/(18)	21/(14)	11/(7)	5/(4)
18"	48/(32)	34/(23)	26/(18)	13/(9)	7/(5)
20"	60/(40)	42/(28)	32/(22)	17/(11)	8/(6)
24"	86/(58)	61/(41)	47/(31)	24/(16)	12/(8)

SAFE BEARING LOADS IN LBS./SQ. FT. THE SAFE BEARING LOADS GIVEN IN T FOLLOWING TABLE ARE FOR HORIZONTA THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET.

SOIL	SAFE SOIL BEARING LOAD	
*MUCK, PEAT, ETC.	SEE GENERAL NOTE #7	
SOFT CLAY	1,000	
SAND	2,000	
SAND AND GRAVEL	3,000	
SAND AND GRAVEL CEMENTED W/CLAY	4,000	
HARD SHALE	10,000	

GENERAL NOTES:

- CONCRETE THRUST BLOCK AREA BASED UPON A SAFE SOIL BEARING LOAD OF 2,000/(3,000) LBS. PER SQ. FT (SAND/(SAND GRAVEL)).
- ÀREAS MUST BE ADJÚSTED FOR OTHER SIZE PIPE, PRESSURES AND SOIL CONDITIONS.
- CONCRETE BLOCKING SHALL BE CAST-IN-PLACE AND HAVE MINIMUM OF 1/2 SQUARE FOOT CONTACT BEARING AGAINST THE FITTING.
- 4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT. INSTALL 8 MIL. PLASTIC SHEETING BETWEEN FITTING AND BLOCK.
- 5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
- POLYETHYLENE WRAP NOT SHOWN FOR CLARITY.
- IN MUCK OR PEAT, PIPE AND FITTING RESTRAINT SHALL BE AS DIRECTED BY THE DISTRICT.

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INLINE VALVE — PROFILE	
	<u> INLINE VALVE - PLAN</u>

NOTES:

- 1. CONCRETE BLOCKING AREA IS BASED ON 250 PSI WATER PRESSURE AND 2500 PSI CONCRETE STRENGTH.
 2. HARDWARE NOT EMBEDDED IN CONCRETE SHALL BE CLEANED AND COATED WITH COAL TAR EPOXY.
- 3. IN-LINE VALVE SHALL BE M.J.xM.J. AND BE RESTRAINED WITH MEGA-LUGS, OR EQUAL.

24,

4. RESTRAINING HARDWARE SHALL BE PER NUD STANDARD WATER DETAIL #2 FOR VERTICAL BLOCKING.

CONCRETE BLOCKING - HORIZONTAL

NOT TO SCALE

DETAIL APPROVALS EDITOR TDC

DPK

MANAGER

NORTHSHORE UTILITY DISTRICT

2022 STANDARD WATER DETAILS



FEBRUARY 2018