



TYPICAL PIPE RESTRAINT DETAIL  
N.T.S.

**NOTES:**

1. ALL PRIMARY WATER MAINS (PIPE DIAMETER >400mm) SHALL BE DESIGNED WITH PIPE RESTRAINERS UNLESS SPECIFIED OTHERWISE.
2. ALL PIPE RESTRAINER PRODUCTS SHALL CONFORM TO ASTM A536, ASTM F1674, AND AWWA C111.
3. ALL PIPE RESTRAINER PRODUCTS SHALL BE APPROVED BY THE ENGINEER AND OR SHALL BE LISTED ON THE CITY OF SASKATOON APPROVED PRODUCT LIST IN CONSTRUCTION MATERIALS FOR WATER MAINS SECTION 15001-3.
4. ALL THE JOINT RESTRAINING DEVICES SHALL BE TAPE COATED WITH DENSO WRAP/PASTE AS DETAILED IN SECTION 01005-31 OF THE SPECIFICATION.

BELL RESTRAINT HARNESS FOR C905  
PVC PIPE (OR APPROVED EQUIVALENT)

NOMINAL PIPE SIZE	PIPE OD	MAXIMUM BELL OD CLEARANCE	THRUST BOLT NUMBER	OVERALL LENGTH
in/mm	in/mm	in/mm	NUMBER	in/mm
18/450	19.5/495	24.88/632	6	27.76/705
20/525	21.6/549	27.13/689	7	30.01/762
24/600	25.8/655	31.63/803	8	35/889
30/750	32.0/813	39.25/997	10	42.88/1089
36/900	38.3/973	46.13/1172	12	49.76/1264
42/1050	44.5/1130	49.00/1245	14	54.12/1375
48/1200	50.8/1290	56.00/1422	16	61.08/1551

RESTRAINT FOR C905 PVC PIPE AT PVC  
FITTINGS (OR APPROVED EQUIVALENT)

NOMINAL PIPE SIZE	PIPE OD	MAXIMUM BELL OD CLEARANCE	THRUST BOLT NUMBER	OVERALL LENGTH
in/mm	in/mm	in/mm	NUMBER	in/mm
18/450	19.5/495	24.88/632	6	18/457
20/525	21.6/549	27.13/689	7	18/457
24/600	25.8/655	31.63/803	8	28/711
30/750	32.0/813	39.25/997	10	28/711
36/900	38.3/973	46.13/1172	12	28/711
42/1050	44.5/1130	49.00/1245	14	36/914
48/1200	50.8/1290	56.00/1422	16	48/1219

PLAN DESCRIPTION/REVISIONS	
4	
3	
2	
1	RESTRAINT JOINTS ON PVC PIPE
DRAWN BY <u>HCS</u>	
DATE <u>2013-JUN-04</u>	
SCALE : HOR. <u>NTS</u> VERT. <u>NTS</u>	



**City of Saskatoon**  
Infrastructure Services Department

RESTRAINT JOINTS  
ON C905 PVC PIPE

APPROVED	
GENERAL MANAGER	
ENGINEER	
ENGINEER	
PLAN NO. 102-0012-015r001	