

## PIPE SIZES

ACRONYMS: IPS, NPS, ID, DN, NB, SCH, SRL, DRL

A PIPE IS A ROUND HOLLOW SECTION TO TRANSPORT FLUIDS

IPS	Internal Pipe Size
NPS	Nominal Pipe Size (Pipe internal diameter, i.e., fluid conveyance capacity)
ASME B36.10/36.19	Are tables showing NPS as rows and Schedules as columns.
OD	Outside diameter includes pipe wall thickness (Schedule, i.e., 40, STD, XS, XXS, 160....)

A SCHEDULE IS A PRACTICAL WAY TO DESIGNATE PIPES WITH DIFFERENT PRESSURE RATINGS

GROWING SCHEDULES REPRESENT GROWING THICKNESS AND STRENGTH

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) B36.10 STANDARDIZES THE SIZES OF CARBON AND ALLOY STEEL PIPES

ASME B36.19 STANDARDIZES THE SIZES OF STAINLESS STEEL, DUPLEX, NICKEL ALLOY AND NON-FERROUS PIPES

ASME B36.19 HAS LESS SCHEDULES ONLY (5S, 10S, 40S, 80S) i.e., FEWER STANDARD PIPE COMBINATIONS

DN IS A EUROPEAN TERMINOLOGY THAT MEANS NOMINAL DIAMETER THAT EQUALS NPS x DN

NPS X 25 (e.g., NPS 4 = DN x 4 x 25 = DN 100)

NB	NOMINAL BORE
ID	INTERNAL DIAMETER

THEY ARE BOTH SYNONYMS OF NOMINAL PIPE SIZE (NPS)

SRL AND DRL ARE TERMS RELATED TO THE LENGTH OF PIPES

SRL	SINGLE RANDOM LENGTH
DRL	DOUBLE RANDOM LENGTH

SRL PIPES HAVE AN ACTUAL LENGTH BETWEEN 5 AND 7 METERS (i.e. RANDOM)

DRL PIPES HAVE ACTUAL LENGTH BETWEEN 11 – 13 METERS

SMALL DIAMETER PIPES ARE MANUFACTURED WITH SRL

LARGER DIAMETERS ARE MANUFACTURED WITH DRL

THE LONGER THE LENGTH, THE LESS THE WELDS ON SITE

THIS IS DUE TO THE FACT THAT MILLS CANNOT PRODUCE PIPES OF THE EXACT SAME LENGTH, BUT JUST WITHIN A RANGE

PE	MEANS “PLAN ENDS” i.e., THE PIPE HAS FLAT ENDS. THIS FINISH IS USED FOR SMALL PIPES OR HIGH – GRADE PIPES
BE	MEANS “BEVELED ENDS” i.e., THE PIPE HAS A 30° BEVEL READY TO BE WELDED WITH OTHER PIPING
TE	MEANS “THREADED ENDS” THE PIPE CAN BE SCREWED
TC	MEANS “THREADED AND COUPLED” PIPE HAS A THREAD AND A COUPLING (GAS PIPES)