

Ductgrove Limited Design Workshops

This section shows terms commonly used in the Piping Industry – We will also focus on the ASME Piping Codes shown below. It should be noted British Standards (UK), DIN (Germany), AFNOR (France), JIS (Japan), and others are also used.

(i) – Design Codes

PIPING DESIGN CODES	DESCRIPTION
ASME B31.1	<i>Power Piping</i>
ASME B31.3	<i>Process Piping</i>
ASME B31.4	<i>Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids</i>
ASME B31.5	<i>Refrigeration Piping and Heat Transfer Components</i>
ASME B31.8	<i>Gas Transmission and Distribution Piping Systems</i>
ASME B31.8S	<i>Managing System Integrity of Gas Pipelines</i>
ASME B31.9	<i>Building Services Piping</i>
ASME B31.11	<i>Slurry Transportation Piping Systems</i>
ASME B31G	<i>Manual for Determining Remaining Strength of Corroded Pipelines</i>

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Listed below are commonly used piping abbreviations

Codes and Standards	Description	Flanges	Description	Valve Terms	Description
AGA,	American Gas Association	FE	Flanged End	BB	Bolted Bonnet
AISI,	American Iron and Steel Institute	FF	Flat Face	BC	Bolted Cap
ANSI,	American National Standards Institute	FLG	Flange	IBBM	Iron Body Bronze Mounted
API,	American Petroleum Institute	DI	Ductile Iron	HW	Handwheel
ASA	American Standard Association	General Terms		ISNRS	Inside Screw Non-Rising Stem
ASME	American Society of Mechanical Engineers	DN	Nominal Diameter	Rc	Rockwell "C"
ASTM,	American Society for Testing and Materials	HB	Brinell Hardness	RF	Raised Face
BS,	British Standard	HBC	Rockwell C Hardness	RJ	Ring Type Joint
BSI,	British Standards Institution	HF	Hard Faced	RS	Rising Stem

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Listed below are commonly used piping abbreviations

Codes Standards	Description	Gen. Terms	Description	Gen. Terms	Description
DIN	Deutsches Institute fuer Normung	ID	Inside Diameter	RWD	Resilient Wedge Disc
CSA	Canadian Standards Association	MTR	Material Test Report	CI	Cast Iron
JIS	Japanese Industrial Standard	NC	Normally closed	BSPT	British Standard Taper Pipe Thread
ISO	International Organization for Standardization	NPS	Nominal Pipe Size	BW,	Butt Weld
NEMA	National Electrical Manufacturers Association	NPT	National Pipe Taper (Pipe Thread)	BWE,	Butt Weld End
Valve Types		OD	Outside Diameter	QO	Quick opening
BV	Ball Valve	PN	Nominal Pressure	SB	Screw-In-Bonnet
GV	Gate Valve	PVF	Pipes, Valves and Fittings	TE	Threaded End
DG	Double Disc Gate	BHN	Brinell Hardness Number	TB	Threaded Bonnet
ECV	Emergency Control Valve	BSP	British Standard Pipe	TC	Threaded Cap
CV	Check Valve	BSPP	British Standard Pipe Parallel	SW	Solid Wedge Disc

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Listed below are commonly used piping abbreviations

Codes Standards	Description	Gen. Terms	Description				
ESD	Emergency Shut Down	SB	Silver Brazed				
SG	Solid Gate	SE	Solder End				
SOV	Shut Off Valve	UB	Union Bonnet				
SS	Stainless Steel	SWE	Socket Weld End				
STD	Standard						
BSPT	British Standard Taper Pipe Thread						
BW,	Butt Weld						
BWE	Butt Weld End						
SJ	Solder Joint						
SWP	Steam Working Pressure						

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