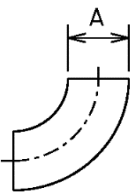
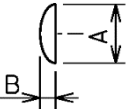
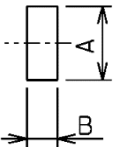
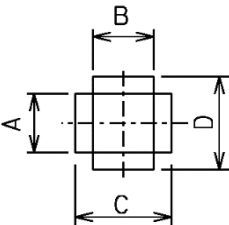
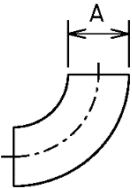
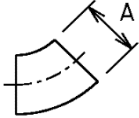
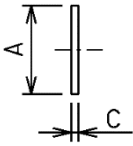
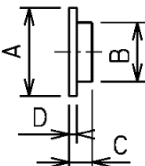
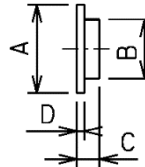
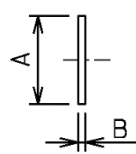
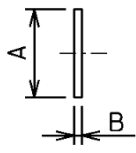
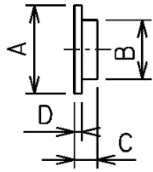
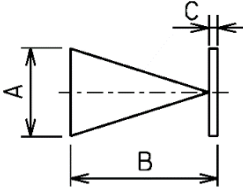
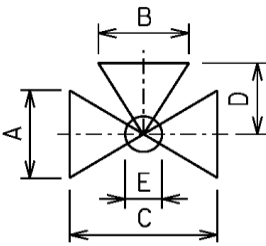
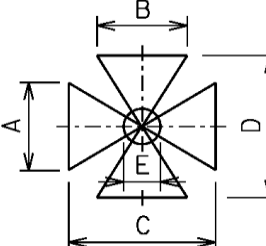
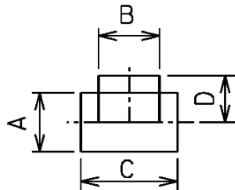
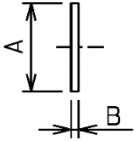


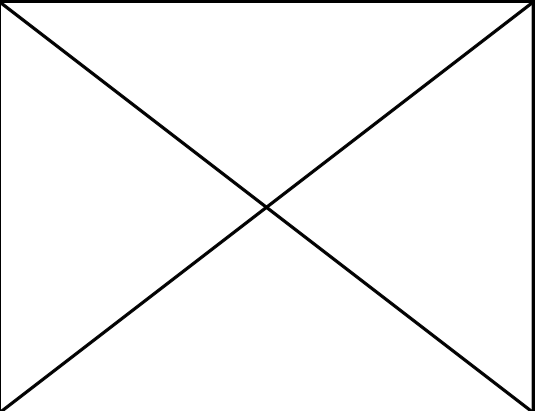
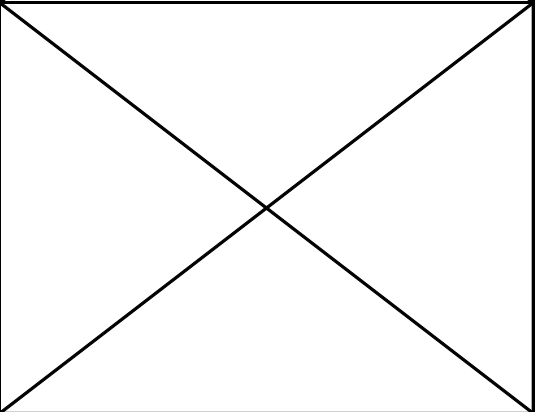
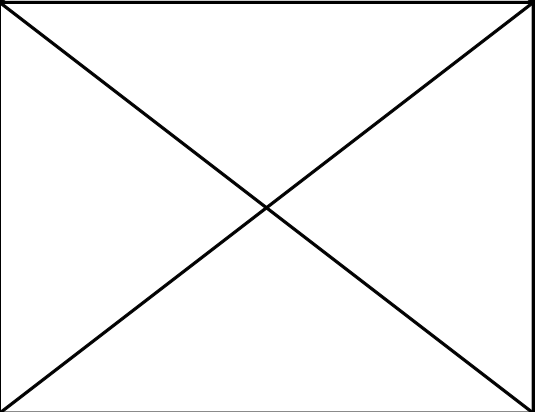
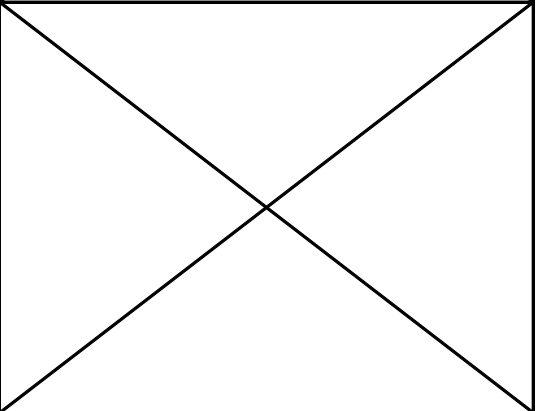
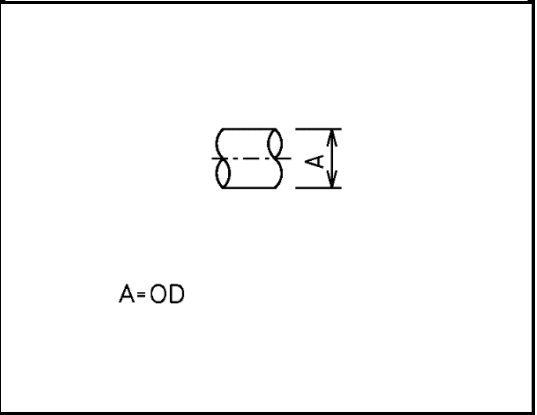
ITEM TYPE	COMPONENT NAME	SYMBOL
Fitting	PipeBend	 <p>A=OD</p>
Fitting	PipingCap	 <p>A=OD B=Ax0.25</p>
Fitting	PipingCoupling	 <p>A=ODx1.25 B=PtoP</p>
Fitting	PipingCross	 <p>A=OD_L B=OD_S C=PtoP_1 D=PtoP_2</p>
Hold	StubInReinforcingWeld	

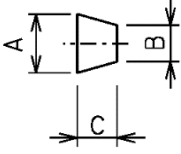
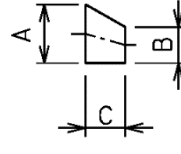
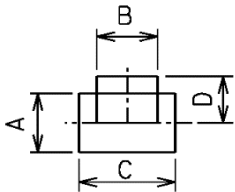
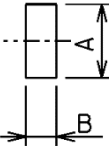
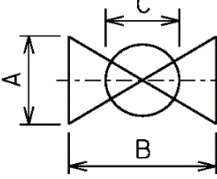
Olet	ElbOlet	
Fitting	PipingElbow90	 <p>A=OD</p>
Fitting	PipingElbow45	 <p>A=OD</p>
Hold	ElbowTeed	
Flange	SlipOnFlange	 <p>A=ODx1.5 B=PtoP</p>

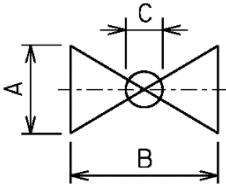
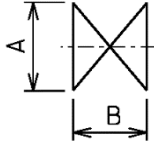
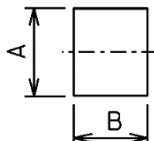
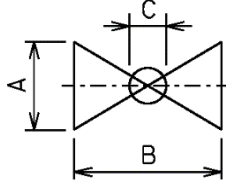
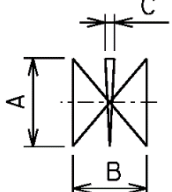
Flange	WeldNeckFlange	 <p>A=Bx1.5 B=OD C=PtoP D=Cx0.5</p>
Flange	Flange	 <p>A=Bx1.5 B=OD C=PtoP D=Cx0.5</p>
Flange	SocketFlange	 <p>A=ODx1.5 B=PtoP</p>
Hold	LongStubEndLapJointFlange	
Flange	BlindFlange	 <p>A=ODx1.5 B=ODx0.1</p>

Flange	WeldNeckReducingFlange	 <p> <math>A = OD\_L \times 1.5</math>  <math>B = OD\_S</math>  <math>C = PtoP</math>  <math>D = C \times 0.5</math> </p>
Valve	CheckValve	 <p> <math>A = OD</math>  <math>B = PtoP</math>  <math>C = A \times 0.1</math> </p>
Valve	ThreeWayInstrumentRootvalve	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP\_1</math>  <math>D = PtoP\_2</math>  <math>E = C \times 0.25</math> </p>
Valve	FourWayInstrumentRootValve	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP\_1</math>  <math>D = PtoP\_2</math>  <math>E = C \times 0.25</math> </p>
Fitting	ReducingInstrumentPipingTee	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP\_1</math>  <math>D = PtoP\_2</math> </p>

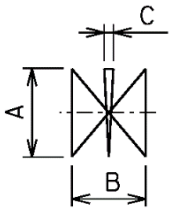
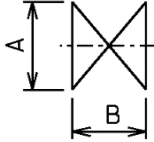
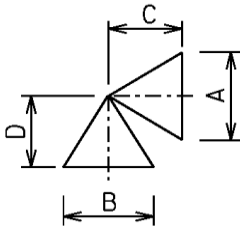
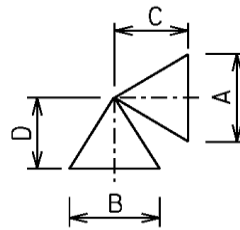
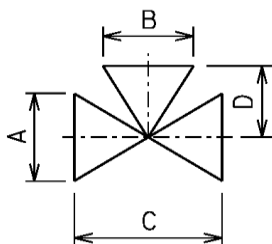
Hold	LapJointFlange	
Hold	PipingPlug	
Fitting	OpenSpectacleBlank	 <p>A=ODx1.25 B=PtoP</p>
Olet	WeldOlet	
Olet	SockOlet	

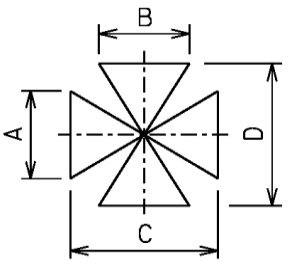
Olet	LatrOlet	
Olet	NippOlet	
Olet	SweepOlet	
Olet	Olet	
Fitting	Pipe	

Fitting	ConcentricPipingReducer	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP</math> </p>
Fitting	EccentricPipingReducer	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP</math> </p>
Fitting	PipingTee	 <p> <math>A = OD\_L</math>  <math>B = OD\_S</math>  <math>C = PtoP\_1</math>  <math>D = PtoP\_2</math> </p>
Fitting	PipingUnion	 <p> <math>A = OD \times 1.25</math>  <math>B = PtoP</math> </p>
Valve	BallValve	 <p> <math>A = OD</math>  <math>B = PtoP</math>  <math>C = B \times 0.5</math> </p>

Valve	GlobeValve	 <p> <math>A=OD</math>  <math>B=PtoP</math>  <math>C=B \times 0.25</math> </p>
Valve	GateValve	 <p> <math>A=OD</math>  <math>B=PtoP</math> </p>
Valve	ButterflyValve	 <p> <math>A=OD</math>  <math>B=PtoP</math> </p>
Valve	DiaphragmValve	 <p> <math>A=OD</math>  <math>B=PtoP</math>  <math>C=B \times 0.25</math> </p>
Valve	NeedleValve	 <p> <math>A=OD</math>  <math>B=PtoP</math>  <math>C=OD \times 0.1</math> </p>



Valve	PlugValve	 <p> <math>A=OD</math>  <math>B=PtoP</math>  <math>C=OD \times 0.1</math> </p>
Valve	TwoWaySlideValve	 <p> <math>A=OD</math>  <math>B=PtoP</math> </p>
Valve	AngleValve	 <p> <math>A=OD\_L</math>  <math>B=OD\_S</math>  <math>C=PtoP\_1</math>  <math>D=PtoP\_2</math> </p>
Valve	AngleCheckValve	 <p> <math>A=OD\_L</math>  <math>B=OD\_S</math>  <math>C=PtoP\_1</math>  <math>D=PtoP\_2</math> </p>
Valve	ThreeWayPlugValve	 <p> <math>A=OD\_L</math>  <math>B=OD\_S</math>  <math>C=PtoP\_1</math>  <math>D=PtoP\_2</math> </p>

Valve	FourWayPlugValve	 <p>A=OD_L B=OD_S C=PtoP_1 D=PtoP_2</p>
Hold	PipingY	