

For pressure fluctuations and pulsation countermeasures of compressed air and vacuum air

Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

ATS - **10**
(1) (2)

(1) Air Tank

(2) Tank Capacity

Code	0.4	0.75	2	5	10	20
Capacity (ℓ)	0.4	0.75	2	5	10	20

Characteristics

Reducing the air and vacuum pressure fluctuations and pulsations.

Tank capacity is selectable from 6 variations.

Tank is made of stainless steel.

Tank capacity 0.4 to 10ℓ ▶ SUS 304 Equivalent.

Tank capacity 20ℓ ▶ SUS321 Equivalent.

Specifications

Model code		ATS-0.4	ATS-0.75	ATS-2	ATS-5	ATS-10	ATS-20
Material		SUS304 equivalent					SUS321 equivalent
Port size	Connection port	G 1/4		G 1/2	G 1		
	Drain port	-			G 3/8		
Tank Capacity(ℓ)		0.4	0.75	2	5	10	20
Fluid medium		Fluid group 2 (PED: 2014/68/EU): Compressed air (Vacuum) or Nitrogen					
Operating pressure range (MPa)		-0.101 to 0.99					
Operating temp. range (*1)	Ambient temp. (°C)	-10 to 100					
	Fluid temp. (°C)	-10 to 100					
Mounting orientation		-			Drain port faces downward		
Mounting method		Fixing clamps		Through-holes			
CE marking	Directive	PED: 2014 / 68 /EU					
	Certification	(*2)				Conforming to applicable directive	
	Category	(*2)				I	I
Weight (kg)(*3)		0.54	0.74	1.68	3.58	6.46	10.21
Special note		Exempt from Japanese class- 2 pressure vessel					

*1. The temperature range is for tank itself without fitting. No freezing.

*2. No CE marking of a tank. CE Declaration of Conformity is not required for tank capacity 0.4ℓ to 5ℓ.

*3. The weight is for tank itself without plug and fitting.

*4. Some countries regulate the import of air tank. Confirm whether the import of air tank is permitted or not in your country in advance.

RoHS2 (2011/65/EU+EU2015/863) compliant



(* refer to specifications)

Type	Model code ATS-[2]	Type	Model code ATS-[2]	Type	Model code ATS-[2]
Air Tank ATS 	ATS-0.4 ATS-0.75	Air Tank ATS 	ATS-2	Air Tank ATS 	ATS-5 ATS-10 ATS-20

Optional parts

Type	Model code PCøD-G	Type	Model code PLøD-G	Type	Model code NBCøD-G	Type	Model code PP-G
Push-in fitting straight PC 	PC6-G2 PC8-G2 PC8-G3 PC10-G2 PC10-G3 PC10-G4 PC12-G2 PC12-G3 PC12-G4 PC16-G3 PC16-G4 PC ³ / ₈ -G2 PC ³ / ₈ -G3 PC ³ / ₈ -G4 PC ¹ / ₂ -G2 PC ¹ / ₂ -G3 PC ¹ / ₂ -G4 PC ⁵ / ₈ -G3 PC ⁵ / ₈ -G4	Push-in fitting elbow PL 	PL6-G2 PL8-G2 PL8-G3 PL10-G2 PL10-G3 PL10-G4 PL12-G2 PL12-G3 PL12-G4 PL16-G3 PL16-G4 PL ³ / ₈ -G2 PL ³ / ₈ -G3 PL ³ / ₈ -G4 PL ¹ / ₂ -G2 PL ¹ / ₂ -G3 PL ¹ / ₂ -G4 PL ⁵ / ₈ -G3 PL ⁵ / ₈ -G4	Compression fitting straight NBC 	NBC1065-G2 NBC1065-G3 NBC1065-G4 NBC1075-G2 NBC1075-G3 NBC1075-G4 NBC1280-G2 NBC1280-G3 NBC1280-G4 NBC1290-G2 NBC1290-G3 NBC1290-G4 NBC1611-G3 NBC1611-G4 NBC1613-G3 NBC1613-G4	Plug PP 	PP-G2 PP-G3 PP-G4
						Type	Model code PF G1-G2
						Conversion Adaptor PF 	PFG8-G4

Notes

*1. See the table below for thread size. (The gasket is made of Aluminum + PBT.)

Code	G2	G3	G4	G8
Size	G1/4	G3/8	G1/2	G1

*2. See the table below for compression fitting size (O.D. x I.D.).

Code	1065	1075	1280	1290	1611	1613
O.D. (mm)	ø10		ø12		ø16	
I.D. (mm)	ø6.5	ø7.5	ø8	ø9	ø11	ø13



CAD data is available
at PISCO website.

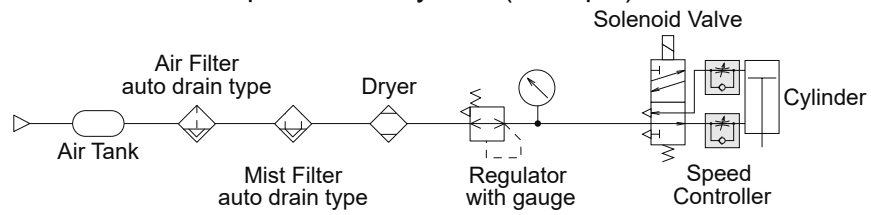


Packaging specifications

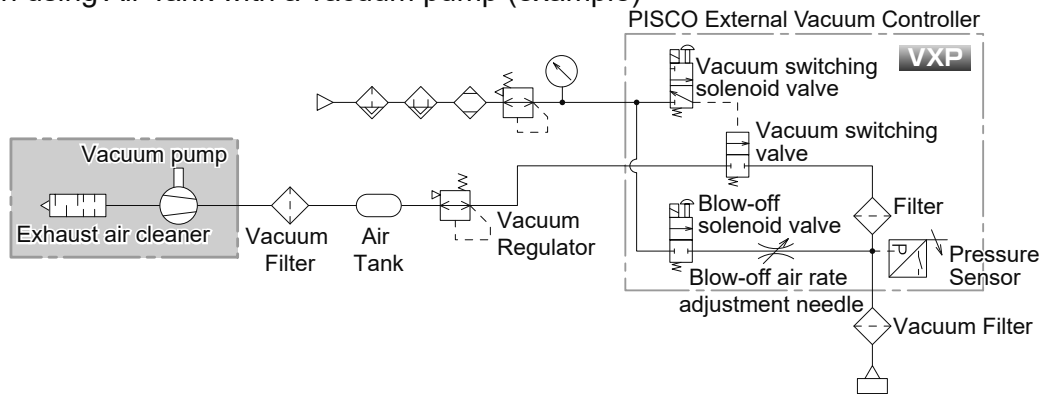
1pc. /bag: ATS- 0.4, 0.75, Conversion Adaptor
1 pc. /box: ATS- 2, 5, 10, 20
10 pcs. /bag: Fittings & Plug

■ Circuit diagrams

● When using Air Tank in the compressed air system (example)

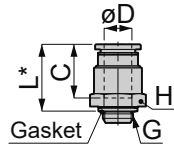


● When using Air Tank with a vacuum pump (example)



■ Dimensional Drawings for Optional Parts (Port Fitting)

● Push-in Fitting Straight

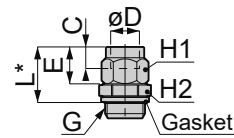


Unit: mm

Applicable models	Model code	Tube O.D. øD	G	L	C	Hex. H	Weight (g)
ATS-0.4 ATS-0.75	PC6-G2	6	G1/4A	16.4	17	17	17
	PC8-G2	8		17.1	18.2		15
	PC10-G2	10		24.1	20.7		21
	PC12-G2	12		29.3	23.3	21	39
	PC3/8-G2	3/8		24.1	20.7	17	22
	PC1/2-G2	1/2		29.1	23.1	21	38
ATS-2 ATS-5 ATS-10 ATS-20	PC10-G4	10	G1/2A	19.3	20.7	24	43
	PC12-G4	12		21.2	23.3		39
	PC16-G4	16		28.5	24.8		51
	PC3/8-G4	3/8		19.3	20.7		45
	PC1/2-G4	1/2		21	23.1		39
	PC5/8-G4	5/8		28.5	24.8		52

*Use Conversion Adaptor at the port of ATS-5, ATS-10, and ATS-20 and connect G1/2A size Push-in Fitting as listed above.

● Compression Fitting Straight



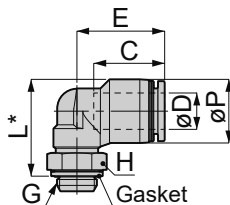
Unit: mm

Applicable models	Model code	øD (*1)	G	L	C	E	Hex. H1	Hex. H2	Weight (g)
ATS-0.4 ATS-0.75	NBC1065-G2	10x6.5	G1/4A	21.1	9	14.8	16	17	34
	NBC1075-G2	10x7.5		21.7		15.4	17		36
	NBC1280-G2	12x8		9	14.8	16	17	58	
	NBC1290-G2	12x9			15.4	17		59	
ATS-2 ATS-5 ATS-10 ATS-20	NBC1065-G4	10x6.5	G1/2A	23.6	9	14.8	16	24	84
	NBC1075-G4	10x7.5		24.2		15.4	17		83
	NBC1280-G4	12x8		26	9.5	16.2	23	24	83
	NBC1290-G4	12x9				16.2	23		83
	NBC1611-G4	16x11		26	9.5	16.2	23		83
	NBC1613-G4	16x13				16.2	23		83

*1. Tube O.D. x I.D.

*2. Use Conversion Adaptor at the port of ATS-5, ATS-10, and ATS-20 and connect G1/2A size Compression Fitting as listed above.

● Push-in Fitting Elbow

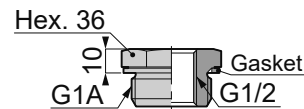


Unit: mm

Applicable models	Model code	Tube O.D. øD	G	L	øP	C	E	Hex. H	Weight (g)
ATS-0.4 ATS-0.75	PL6-G2	6	G1/4A	26.2	12.5	17	21.8	17	21
	PL8-G2	8		27.2	14.5	18.1	23.7		23
	PL10-G2	10		29.2	17.5	20.2	26		26
	PL12-G2	12		32.2	21	23.4	29		29
	PL3/8-G2	3/8		29.2	17.5	20.2	26		27
	PL1/2-G2	1/2		32.2	21	23.7	29.3		28
ATS-2 ATS-5 ATS-10 ATS-20	PL10-G4	10	G1/2A	33.7	17.5	20.2	27.5	24	63
	PL12-G4	12		35.9	21	23.4	30.7		67
	PL16-G4	16		50.9	25	24.1	33.1		75
	PL3/8-G4	3/8		33.7	17.5	20.2	27.5		64
	PL1/2-G4	1/2		35.9	21	23.7	31		66
	PL5/8-G4	5/8		50.9	25	24.1	33.1		75

*Use Conversion Adaptor at the port of ATS-5, ATS-10, and ATS-20 and connect G1/2A size Push-in Fitting as listed above.

● Conversion Adaptor

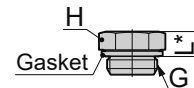


Unit: mm

Applicable models	Model code	Weight (g)
ATS-5, ATS-10, ATS-20	PFG8-G4	110

*When connecting G1/2A size Push-in Fitting or Compression Fitting to the port of ATS-5, ATS-10, and ATS-20, use this Conversion Adaptor.

● Plug



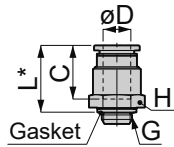
Unit: mm

Compatible models	Model code	G	L	Hex. H	Weight (g)
ATS-0.4, ATS-0.75	PP-G2	G1/4A	5.9	17	18
ATS-2, ATS-5, ATS-10, ATS-20	PP-G4	G1/2A	10.4	24	59

*Dimensions marked with * are reference values before thread tightening. The gasket will be compressed when the thread is tightened, shortening the dimension by about 0.4 mm.

■ Dimensional Drawings for Optional Parts (Drain Port Fitting) (ATS-5, ATS-10, ATS-20 only)

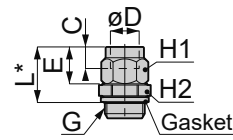
● Push-in Fitting Straight



Unit: mm

Model code	Tube O.D. øD	G	L	C	Hex. H	Weight (g)
PC8-G3	8	G3/8A	15.9	18.2	19	22
PC10-G3	10		19.6	20.7		22
PC12-G3	12		25.7	23.3	21	33
PC16-G3	16		31.5	24.8	22	45
PC3/8-G3	3/8		19.6	20.7	19	23
PC1/2-G3	1/2		25.5	23.1	21	31
PC5/8-G3	5/8		31.5	24.8	22	45

● Compression Fitting Straight

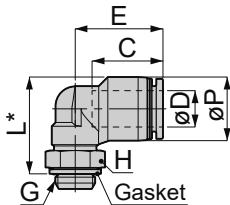


Unit: mm

Model code	øD (*)	G	L	C	E	Hex. H1	Hex. H2	Weight (g)		
NBC1065-G3	10 × 6.5	G3/8A	22.6	9	14.8	16	19	41		
NBC1075-G3	10 × 7.5								23.2	15.4
NBC1280-G3	12 × 8		26		9.5	16.2		23		
NBC1290-G3	12 × 9								77	
NBC1611-G3	16 × 11									
NBC1613-G3	16 × 13									

*Tube O.D. x I.D.

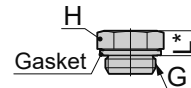
● Push-in Fitting Elbow



Unit: mm

Model code	Tube O.D. øD	G	L	øP	C	E	Hex. H	Weight (g)
PL8-G3	8	G3/8A	28.7	14.5	18.1	24.7	19	30
PL10-G3	10		31.2	17.5	20.2	27		33
PL12-G3	12		33.4	21	23.4	29.7	24	37
PL16-G3	16		50.9	25	24.1	33.1		77
PL3/8-G3	3/8		31.2	17.5	20.2	27	19	34
PL1/2-G3	1/2		33.4	21	23.7	30		36
PL5/8-G3	5/8		50.9	25	24.1	33.1	24	77

● Plug



Unit: mm

Model code	G	L	Hex. H	Weight (g)
PP-G3	G3/8A	8.4	19	31

*Dimensions marked with * are reference values before thread tightening. The gasket will be compressed when the thread is tightened, shortening the dimension by about 0.4 mm.