Steel Pipes for Air Nozzles / Steel Pipe Nozzles with Slit

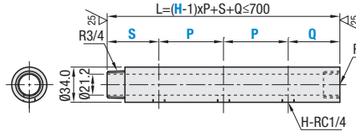
Steel Pipes for Air Nozzles

RoHS10

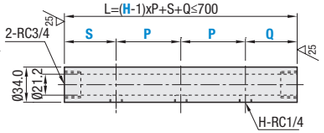
Type		Material	Surface Treatment	Normal Pressure	Accessories
Threaded & Tapped	Both Ends Tapped				
AMR	AMF	A Pipe Steel	Zinc Plating	0.7 MPa	Tapered Screw Plugs (4137 Alloy Steel, Black Oxide) 1pc.
AMRS	AMFS	304 Stainless Steel	—		Tapered Screw Plugs (302HQ Stainless Steel) 1pc.

ⓘ Accessories Tapered Screw Plug is seal-coated.

Threaded / Tapped



Both Ends Tapped



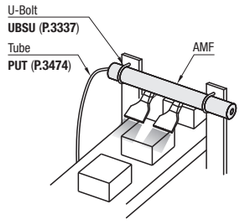
Part Number			Number of Side Tapped Holes H	Pitch P 1mm Increment	S or Q 1mm Increment
Type		No.			
Threaded & Tapped	Both Ends Tapped				
AMR	AMF	20A	1–10	60–80	35–80
AMRS	AMFS				

ⓘ When H (the number of side tapped holes) is 1, specifying Pitch P is not necessary.

Part Number Example

Part Number		H (No. of Holes)		P		S		Q
AMR20A	-	1	-		-	S40	-	Q50
AMF20A	-	8	-	P70	-	S35	-	Q35

Application Example

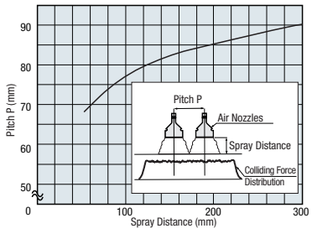


The graph is the property table when Flat Air Nozzle – Standard Type – on **P.3552** is installed.

Ex.) For spray distance at 200 mm, Pitch P is 85 and colliding force becomes almost even.

ⓘ Values on the graph are for reference, not guaranteed.

Spray Width Property Table

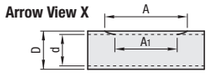


Steel Pipe Nozzles with Slit

RoHS10

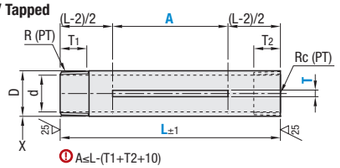
Type		Material	Surface Treatment	Accessories
Threaded & Tapped	Both Ends Tapped			
SLTR	SLTF	SGP	Zinc Plating	Tapered Screw Plugs (4137 Alloy Steel, Black Oxide) 1pc.
SLTRS	SLTFS	304 Stainless Steel	—	Tapered Screw Plug (302HQ Stainless Steel) 1pc.

Arrow View X

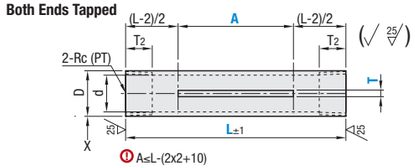


ⓘ Maximum difference of A-A1 is approx. 6mm.

Threaded / Tapped



Both Ends Tapped



Part Number		L 1 mm Inc.	A 1 mm Inc.	T 0.5 mm Inc.	R (PT) Rc (PT)	(T_1)	(T_2)	D	d	
Type	No.								Material: SGP	Material: 304 Stainless Steel
Threaded & Tapped	6A	90–700	50–500	0.5–2.0	1/8	10	11	10.5	—	5.7
SLTR	8A	100–700			1/4	15	13	13.8	9.2	7.8
SLTRS	10A				3/8	17	16	17.3	12.7	10.9
Both Ends Tapped	15A				1/2	20	18	21.7	16.1	16.1
SLTF	20A	110–700			3/4	23	20	27.2	21.6	21.4
SLTFS	25A				1	25	22	34	27.6	27.2

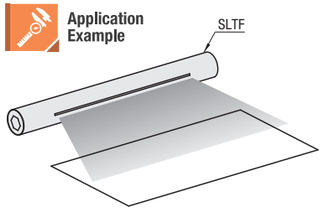
ⓘ There is no surface treatment on threaded part and slit machining and its peripheral part. *Over tightening at machining threads may scratch them.

ⓘ Excessive tightening may deform the female thread portion. Wrap with sealing tape for air tightness and after manual tightening, tighten it up further by giving one rotation or so.

Part Number Example

Part Number		L		A		T
SLTR8A	-	300	-	A200	-	T1.0

Application Example



Features

Simple nozzles with a slit in a pipe. Suitable when the distance to the object is short.

Precaution for Use

Actual spray width and colliding force vary. And the slit width may increase in width depending on air pressure. When more even blows are required, use Air Nozzles **(P.3551–3552)** and Steel Pipes for Air Nozzles.

MiSUMi

Steel Pipe Nozzles

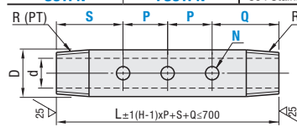
Both Ends Threaded / TOne End Threaded / One End Tapped / Both Ends Tapped

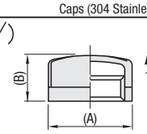
Steel Pipe Nozzles

RoHS10

Both Ends Threaded

Type		Material	Surface Treatment	Accessories
S, Q Fixed	S, Q Configurable			
SGPPN	FSGPPN	SGPW Pipe Steel	Zinc Plating	Caps (JIS-FCMB270, Hot Zinc Plating) 1pc.
SUTPN	FSUTPN	304 Stainless Steel	—	Caps (304 Stainless Steel) 1pc.

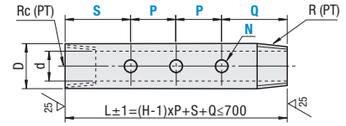




Accessory Cap
1 pc.

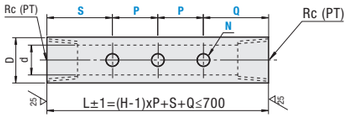
One End Threaded / One End Tapped

Type		Material	Surface Treatment	Accessories
S, Q Fixed	S, Q Configurable			
SGPPW	—	SGPW Pipe Steel	Zinc Plating	Tapered Screw Plugs (4137 Alloy Steel, Black Oxide) 1pc.
SUTPW	FSUTPW	304 Stainless Steel	—	Tapered Screw Plugs (302HQ Stainless Steel) 1pc.



Both Ends Tapped

Type		Material	Surface Treatment	Accessories
S, Q Fixed	S, Q Configurable			
SGPPF	FSGPFW	SGPW Pipe Steel	Zinc Plating	Tapered Screw Plugs (4137 Alloy Steel, Black Oxide)
SUTPF	FSUTFW	304 Stainless Steel	—	Tapered Screw Plugs (302HQ Stainless Steel)



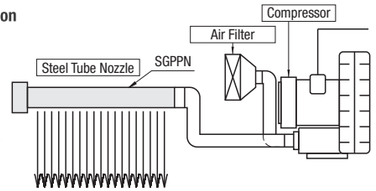
S, Q Fixed

Part Number		H Number of Holes	P 5 mm Increment	N (Hole Dia.)	R (PT) Rc (PT)	S, Q	D	d		Cap Dim. of Both Ends Threaded Type	
				0.5 mm Increment							
Type	No.							SGPP_	SUTP_	(A)	(B)
SGPPN	1	2–94	5–30	1.5–3.0	1/8	15	10.5	—	5.7	18	14
SUTPN	2				1/4	20	13.8	9.2	7.8	22	15
SGPPW	3				3/8		17.3	12.7	10.9	27	18
SUTPW	4				1/2	25	21.7	16.1	16.1	31	20
SGPPF											
SUTPF											

Part Number Example

Part Number		H (No. of Holes)		P		N		S		Q
SUTPN3	-	30	-	P10	-	N1.5				
FSUTPW2	-	40	-	P5	-	N2.0	-	S50	-	Q80

Application Example



* Threaded ends are covered with sealing tapes before shipping.

ⓘ There is no surface treatment for thread part.*Marks may be left on the surface when tightening screws.

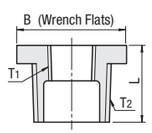
ⓘ Excessive tightening may deform the female thread portion. Wrap with sealing tape for air tightness and after manual tightening, tighten it up further by giving one rotation or so.

S, Q Configurable

Part Number		H Number of Holes	P 5 mm Increment	N (Hole Dia.)	S 1 mm Increment	Q 1 mm Increment	R (PT) Rc (PT)	D	d		Cap Dim. of Both Ends Threaded Type	
				0.5 mm Increment								
Type	No.								FSGP_	FSUT_	(A)	(B)
FSGPPN	1	2–94	5–30	1.5–3.0	15–200	15–200	1/8	10.5	—	5.7	18	14
FSUTPN	2				20–200	20–200	1/4	13.8	9.2	7.8	22	15
FSUTPW	3						3/8	17.3	12.7	10.9	27	18
FSGPFW	4				25–200	25–200	1/2	21.7	16.1	16.1	31	20
FSUTFW												

Bushings

Type	Material	Surface Treatment
SGPPB	FCMB270	Hot Zinc Plating
SUTPB	CF-8 Stainless Steel Cast	—



Part Number		Rc(PT)	R(PT)	L	B
Type	No.	T_1	T_2		
SGPPB SUTPB	12	1/8	1/4	17	17
	13	1/8	3/8	18	21
	14	1/8	1/2	21	26
	23	1/4	3/8	18	21
	24	1/4	1/2	21	26
	26	1/4	3/4	24	32
	28	1/4	1	27	38
	34	3/8	1/2	21	26
	36	3/8	3/4	24	32
	38	3/8	1	27	38
	46	1/2	3/4	24	32
	48	1/2	1	27	38
	68	3/4	1	27	38
	610	3/4	1-1/4	30	46
	810	1	1-1/4	30	46
	812	1	1-1/2	32	54
	1012	1-1/4	1-1/2	32	54
	1016	1-1/4	2	36	63
	1216	1-1/2	2	36	63

ⓘ No. 1016 and 1216 have octagonal B part. All other parts are hex.

Fluid State	Max. Operating Pressure Mpa
Steam, Air, Gas, Oil: Up to 300°C	1.0
Steam, Air, Oil, Pulsating Water: Up to 200°C	1.4
Static Flow Water: Up to 120°C	2.0

Operating Conditions of Fittings

* Pulsating Water is a stream of water that is generated under steady operating conditions and variation of pressure and flow rate occurs in cycles. (Except for transitional change)

* Static Flow Water is a non-pulsating stream of water.

* As fittings are cast products, ( ) dimensions such as (D) and (T) are for reference, not guaranteed.