

Sleeves and Related Parts

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Sleeves and Related Parts

A12116	Sleeve A S-1
A12118	Sleeve A S-2
A12119	Sleeve A S-3
A14605	Sleeve A S (400 to 700L)

For sliding beams

Part number A12116 Sleeve A S-1 A12119 Sleeve A S-3

Part number A12118 Sleeve A S-2 A14605 Sleeve A S (400 to 700L)

Units (mm)

Size code				Size	Inner cylinder dia. (A)	Outer cylinder dia. (B)	Cylinder sheet thickness (t)	Number of lugs (total left and right)	Inner cylinder length (C)	Outer cylinder length (D)	Range of operation
A12116	A12118	A12119	A14605								
0013	0018	0015	0088	50	50	53	0.5	6	A12116: 200 L	A12116: 180 L	Min. length Max. length A12116: 205 L to 310 L A12118: 305 L to 500 L A12119: 505 L to 900 L A14605: 405 L to 700 L
0032	0037	0034	0016	80	83	86	0.5	6			
0047	0041	0049	0035	100	103	106	0.8	6			
0051	0056	0053	0040	125	128	131	0.8	6			
0066	0075	0068	0054	150	153	156	0.8	6	A12118: 300 L	A12118: 280 L	
0085	0080	0072	0069	175	178	181	0.8	6	A12119: 500 L	A12119: 480 L	
0090	0094	0087	0073	200	203	206	0.8	6			
0102	0107	0091		225	228	231	1.0	6	A14605: 400 L	A14605: 380 L	
0117	0111	0104		250	253	256	1.0	6			
0121	0126	0119		275	278	281	1.0	6			
0136	0145	0123		300	303	306	1.2	6			
0155	0150	0138		350	353	356	1.2	6			

* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.



Caution

For large diameters, reinforce by forming reinforcing bars in a cross, or reinforce using rafters or crosspieces.

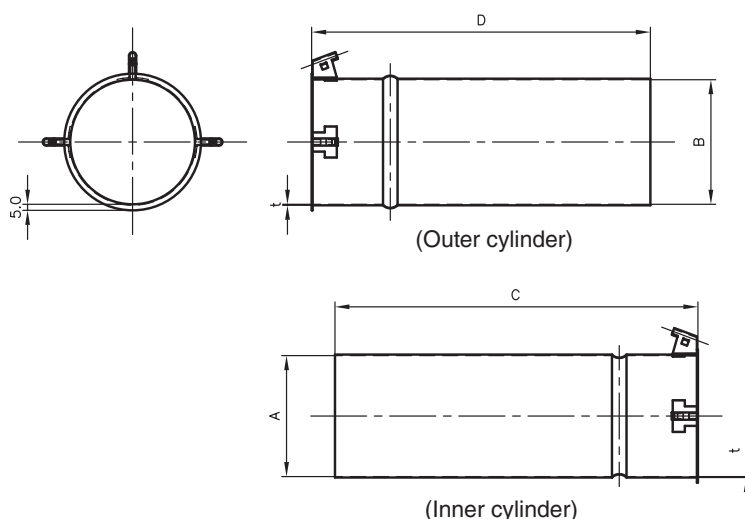
A12116 Sleeve A S-1



A12118 Sleeve A S-2



A12119 Sleeve A S-3



A12120 Sleeve A F-1S

Made to order

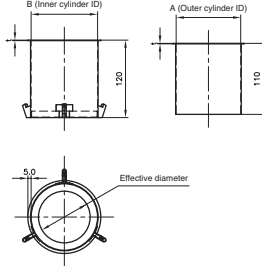
Sliding type for floor applications

Part number A12120 Sleeve A F-1S

Units (mm)

Size code	Size	Effective ID ϕ	Inner cylinder ID ϕ (A)	Outer cylinder ID ϕ (B)	Cylinder sheet thickness (t)	Number of lugs (total left and right)	Cover outer diameter ϕ
0016	60	60	80	83	0.5	3	95
0040	80	80	100	103	0.5	3	115
0054	100	100	120	123	0.8	3	135
0069	125	125	145	148	0.8	4	160
0073	150	150	170	173	0.8	4	185
0088	175	175	195	198	0.8	4	210
0092	200	200	220	223	0.8	4	235
0105	225	225	245	248	1.0	4	260
0110	250	250	270	273	1.0	4	285
0124	275	275	295	298	1.0	5	310
0139	300	300	320	325	1.2	5	335
0143	350	350	370	373	1.2	5	385

* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.



A12494 Sleeve A F-1T

Made to order

Single cylinder type for floor applications

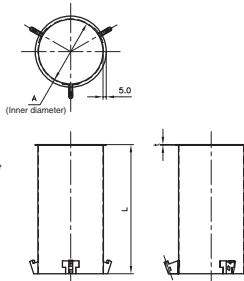
Part number A12494 Sleeve A F-1T

Units (mm)

Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs	Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
50	50	Set for each site	0.5	3	225	228	Set for each site	1.0	3
80	83		0.5	3	250	253		1.0	3
100	103		0.8	3	275	278		1.0	4
125	128		0.8	3	300	303		1.2	4
150	153		0.8	3					
175	178		0.8	3					
200	203		0.8	3					

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A12495 Sleeve A FD-1 (L-bracket type)

Made to order

Single cylinder type for deck-plate floor applications

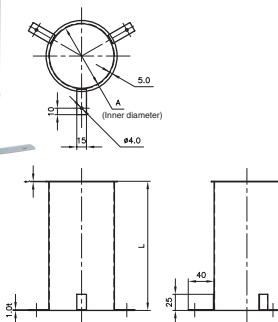
Part number A12495 Sleeve A FD-1 (L-bracket type)

Units (mm)

Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs	Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
50	50	Set for each site	0.5	3	225	228	Set for each site	1.0	3
80	83		0.5	3	250	253		1.0	3
100	103		0.8	3	275	278		1.0	4
125	128		0.8	3	300	303		1.2	4
150	153		0.8	3					
175	178		0.8	3					
200	203		0.8	3					

* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.



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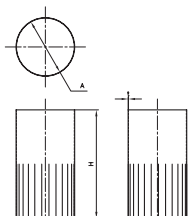
Sleeves and Related Parts

A17282 Sleeve A FD-1 (slit type)

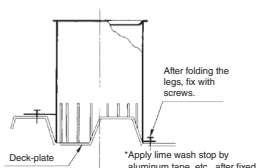
Made to order

Single cylinder type for deck-plate floor applications

Part number A17282 Sleeve A FD-1 (slit type)



Installation example



Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)
50	50	Set for each site	0.5
80	83		0.5
100	103		0.8
125	128		0.8
150	153		0.8
175	178		0.8
200	203		0.8

Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)
225	228	Set for each site	1.0
250	253		1.0
275	278		1.0
300	303		1.2

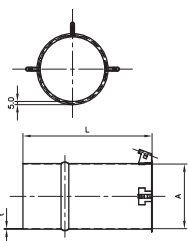
* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.

A12493 Sleeve A K-1 (cylinder length 90 to 200)

Made to order

Single cylinder type for wall applications

Part number A12493 Sleeve A K-1



Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
50	50	90 to 200	0.5	3
80	80		0.5	3
100	100		0.8	3
125	125		0.8	3
150	150		0.8	3
175	175		0.8	3
200	200		0.8	3
225	225		1.0	3
250	250		1.0	3

Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
275	275	90 to 200	1.0	4
300	300		1.2	4
350	350		1.2	5

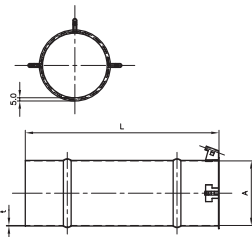
* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.

A13068 Sleeve A K-2 (cylinder length 201 to 400)

Made to order

Single cylinder type for wall applications

Part number A13068 Sleeve A K-2



Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
50	50	201 to 400	0.5	3
80	80		0.5	3
100	100		0.8	3
125	125		0.8	3
150	150		0.8	3
175	175		0.8	3
200	200		0.8	3
225	225		1.0	3
250	250		1.0	3

Units (mm)

Size	Inner diameter ϕ (A)	Cylinder length	Cylinder sheet thickness (t)	Number of lugs
275	275	201 to 400	1.0	4
300	300		1.2	4
350	350		1.2	5

* Made of galvanized steel plate in the Public Building Construction Standard Specification are up to 350.

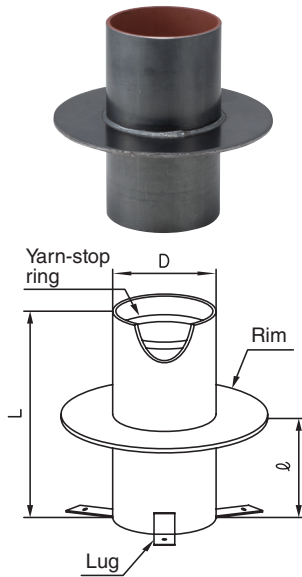


A15927 Steel pipe sleeve products Made to order

Rimmed steel pipe sleeves used where watertightness is required through outer walls for air-conditioning, sanitation, or electrical work.

These products conform to the Standard Specifications for Public Works Construction.

⚠ In principle, specify a sleeve diameter about 40 mm larger than the pipe outer diameter (including thermal insulation thickness for insulated pipe).



Ordering procedure

1. Check the wall thickness and beam width.
2. Select the material used (public works, general use).
3. Specify the shape.
 - (1) Tube section length (L), rim mounting position (ℓ)
 - (2) Rim welding conditions (none/one-side, full circumference /two-side, full circumference)
 - (3) Lug mounting type (none/one-face/two-face)
 - (4) Yarn-stop ring (Yes/No)
4. Indicate the surface treatment. Rustproofing agent is normally applied to the inner and end surfaces.

*Available in bare metal, external rustproofed, full rustproofed, dip-plated, or Roval to meet the site conditions.

Public works (SGP steel pipe)

JIS G 3452

Model number	Outer diameter D	Sheet thickness t	Lug dimensions
SGP 50	60.5	3.8	6.0t×50W
SGP 65	76.3	4.2	
SGP 80	89.1	4.2	
SGP100	114.3	4.5	
SGP125	139.8	4.5	
SGP150	165.2	5.0	
SGP200	216.3	5.8	
SGP250	267.4	6.6	
SGP300	318.5	6.9	

General use (STK steel pipe)

JIS G 3444

Model number	Outer diameter D	Sheet thickness t	Lug dimensions
STK 50	60.5	2.3	3.2t×50W
STK 65	76.3	2.8	
STK 80	89.1	2.8	
STK100	114.3	3.5	
STK125	139.8	3.6	
STK150	165.2	4.5	
STK200	216.3	4.5	
STK250	267.4	6.0	
STK300	318.5	6.0	

Product size table

	Model number	L	ℓ	Rim welding conditions	Lug mounting type	Yarn-stop ring	Surface treatment	Qty
Example	SGP100	590	295	None/one-side/ two-side	None/one-face/ two-face	Yes/No	Normal/Other	5
1								
2								

A10863 Void Stoppi



Installation example



Fixing clip for void tubes (paper tubes)

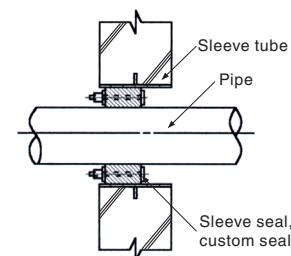
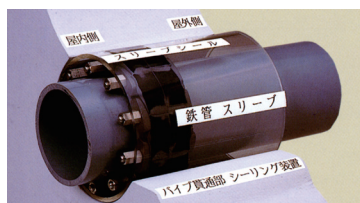
Part number A10863 Void Stoppi

Size code	Part number
0012	A10863

Sleeves and Related Parts

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Sleeves and Related Parts



A10866 Sleeve seal



Rubber molded in a mold

Supports standard combinations (SS and SSR)

A17287 Custom seal



Rubber cut and machined from rubber sheet

Supports combinations where a sleeve seal does not fit (CS)

A10866 Sleeve seal (molded type SS/SSR)

A17287 Custom seal (machined type CS)

Sealing device for pipe penetration position that exploits the elasticity, stretchiness, and insulation properties of rubber

[Installation method] The following fixing methods are available using nuts and bolts.



Screwdriver method (SS)
For small diameters



Socket wrench method (SSR)
For medium and large diameters

Material and heat resistance

Type	Sealing rubber		Plate	Bolt and nut	Heat resistance	Application
	Sleeve seal	Custom seal				
S	EPDM rubber	Neoprene rubber	Glass fiber reinforced resin	SUS304	100°C	For general use
NT*	Nitrile rubber	Same as left	Glass fiber reinforced resin	SUS304	100°C	For oil
HT*	Silicon rubber	Same as left	Heat resistant reinforced resin	SUS304	180°C	For high temperature
HTS**	Silicon rubber	—	SUS304	SUS304	—	Fire retarding division

* mark: Contact us in advance for NT, HT and HTS.

**HTS is a certification number PS060WL-0962 Fire Compartment Penetrating compliant product certified by the Minister of Land, Infrastructure, Transport and Tourism.

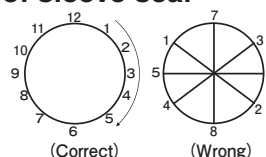
Part number A10866 Selection table for sleeve seal

Size code	Pipe	Sleeve tube	Sleeve seal
0476	20A	Steel pipe	SS-20-4-S
		PVC pipe	
		PE pipe	
		Conduit 22	
		Coated steel pipe	
0531	25A	Steel pipe	SS-25-5-S
		PVC pipe	
		PE pipe	
		Conduit 28	
		Coated steel pipe	
0495	32A	Steel pipe	SS-20-5-S
		PVC pipe	
		PE pipe	
		Conduit 36	
		Coated steel pipe	
0546	40A	Steel pipe	SS-25-6-S
		PVC pipe	
		PE pipe	
		Conduit 42	
		Coated steel pipe	

Size code	Pipe	Sleeve tube	Sleeve seal
0546	40A	SGP	SS-25-6-S
0669			SSR-33-5-S
0508			SS-20-6-S
0669			SSR-33-5-S
0546			SS-25-6-S
0508		VP	SS-20-6-S
0546			SSR-33-5-S
0669			SS-25-6-S
0512			SS-20-7-S
0669			SSR-33-5-S
0512	Coated steel pipe	Core	SS-20-7-S
0565			SSR-30-5-S

Correct fastening of sleeve seal

When fastening a sleeve seal, always start at the 12 o'clock point, then fasten at the 1 o'clock and 2 o'clock points, in that order. Rotate the nut 2 to 3 rotations at a time. Normally 4 to 8 turns completes fastening, depending on the size of the sleeve seal.



* Contact us for the following cases.

- When a material or combination not listed in the table is used.
- When the gap is too big.
- When used for steam or oil.



Part number A10866 Selection table for sleeve seal

Size code	Pipe	Sleeve tube	Sleeve seal
0640	50A	Steel pipe PVC pipe PE pipe Conduit 54	SGP 100 SSR-31- 6-S
0570			VP 100 SSR-30- 6-S
0640			VU 100 SSR-31- 6-S
0570			Core 100 dia. SSR-30- 6-S
0640			Core 110 dia. SSR-31- 6-S
0570	50A	Coated steel pipe	Void 100
0640			SGP 100 SSR-30- 6-S
0527	65A	Steel pipe PVC pipe PE pipe Conduit 70	VP 100 SS-20- 9-S
0673			VP 125 SSR-33- 7-S
0654			VP 125 SSR-31- 7-S
0673			VU 125 SSR-33- 7-S
0654			Core 125 dia. SSR-31- 7-S
0673			Core 128.5 dia. SSR-33- 7-S
0527			Core 130 dia.
0673			Void 100 SS-20- 9-S
0584			SGP 125
0955			VU 125 SSR-33- 7-S
1065	80A	Steel pipe PVC pipe PE pipe Conduit 82	Core 130 dia.
0584			SGP 125 SSR-30- 8-S
0955			VP 150 SSR-43- 4-S
1065			VP 175 SSR-47- 6-S
0584			VU 125
0955			Core 128.5 dia. SSR-30- 8-S
0599			Core 130 dia.
0813			Core 180 dia. SSR-47- 6-S
1070			Void 125 SSR-30- 8-S
0599			SGP 150
0813	100A	Steel pipe PVC pipe PE pipe Conduit 104	VU 150 SSR-43- 4-S
1070			Core 160 dia.
0599			SGP 150 SSR-30-10-S
0813			VP 175 SSR-41- 5-S
1070			VP 200 SSR-47- 7-S
0599			VU 150 SSR-30-10-S
0813			VU 200 SSR-47- 7-S
1070			Core 160 dia. SSR-31-10-S
0599			Core 180 dia. SSR-41- 5-S
0813			Core 200 dia. SSR-47- 7-S
0599	125A	Steel pipe PVC pipe PE pipe	Core 204 dia.
0601			Void 150 SSR-30-10-S
0828			SGP 200
1084			VU 200 SSR-46- 7-S
0688			Core 204 dia.
0828			SGP 200 SSR-30-12-S
0601			VP 200 SSR-47- 8-S
0828			VU 200 SSR-33-11-S
1027			Core 180 dia. SSR-30-12-S
0828			Core 200 dia. SSR-41- 6-S
1027	125A	Coated steel pipe	Core 204 dia. SSR-47- 8-S
0828			SGP 200 SSR-41- 6-S
1027			VU 200 SSR-46- 8-S
0828			Core 204 dia. SSR-41- 6-S
1027			Core 229 dia. SSR-46- 8-S

Size code	Pipe	Sleeve tube	Sleeve seal
0616	150A	Steel pipe PVC pipe PE pipe	SGP 200 SSR-30-14-S
0832			VP 225 SSR-41- 7-S
1031			VU 250 SSR-46- 9-S
0832			Core 229 dia. SSR-41- 7-S
1031			Core 250 dia. SSR-46- 9-S
0832			Core 254.5 dia. SSR-46- 9-S
1031			SGP 250
0832			VP 250 SSR-41- 7-S
1031			Core 254.5 dia. SSR-46- 9-S
0960			SGP 300 SSR-44- 9-S
0847	200A	Steel pipe PVC pipe	VP 300 SSR-41- 9-S
1046			Core 300 dia. SSR-46-11-S
0960			Core 306 dia.
0960			SGP 300
0851			Core 306 dia. SSR-44- 9-S
0692			SGP 350
0851			VU 350
0692			Core 350 dia. SSR-40-10-S
0866			SGP 350 SSR-42-10-S
0705			Core 350 dia. SSR-40-10-S
0866	300A	Steel pipe PVC pipe	SGP 400 SSR-42-12-S
0705			VU 400
0710			Core 400 dia. SSR-40-12-S
0710			SGP 400
1140			Core 400 dia. SSR-42-12-S
0739			Core 400 dia. SSR-40-12-S
0739			SGP 450
0743			VU 450
0758			Core 450 dia. SSR-40-13-S
0762			SGP 450
0777	350A	Steel pipe PVC pipe (370 dia.) Ductile cast-iron pipe	SGP 450
0781			VP 450
0796			Core 450
0809			SGP 500
0739			VU 500
0743			Core 500
0758			SGP 500
0762			VU 500
0777			Core 500
0781			SGP 500
0796	400A	Steel pipe PVC pipe (420 dia.) Ductile cast-iron pipe	SGP 550
0809			VP 550
0739			Core 550
0743			SGP 550
0758			VU 550
0762			Core 550
0777			SGP 600
0781			VU 600
0796			Core 600
0809			SGP 600
0739	450A	Steel pipe PVC pipe (420 dia.) Ductile cast-iron pipe	SGP 650
0743			VP 650
0758			Core 650
0762			SGP 700
0777			VU 700
0781			Core 700
0796			SGP 700
0809			VU 700
0739			Core 700
0743			SGP 750
0758	500A	Steel pipe PVC pipe (420 dia.) Ductile cast-iron pipe	VP 750
0762			Core 750
0777			SGP 800
0781			VU 800
0796			Core 800
0809			SGP 800
0739			VU 800
0743			Core 800
0758			SGP 850
0762			VU 850

*Consult Akagi in the following situations:

- Materials and combinations not in the table
- Clearance is too large
- Using steam or oil

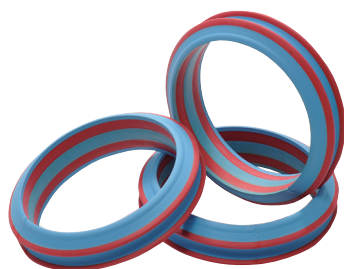
Sleeves and Related Parts

Part number A17287 Selection table for custom seal

Size code	Pipe	Sleeve tube	Sleeve seal
0028	20A	Steel pipe PVC pipe PE pipe Conduit 22	SGP 65 CS- 2865-S
0051			80 CS- 2878-S
0028			VP 65 CS- 2865-S
0047			75 CS- 2875-S
0013			65 dia. CS- 2863-S
0032			75 dia. CS- 2872-S
0051			80 dia. CS- 2878-S
0090		Coated steel pipe	Void 75 CS- 2878-S
0085			SGP 80 CS- 3378-S
0066			VU 65 CS- 3368-S
0085			65 dia. CS- 3362-S
0090			70 dia. CS- 3368-S
0117	25A	Steel pipe PVC pipe PE pipe Conduit 28	80 dia. CS- 3378-S
0102			SGP 80 CS- 3478-S
0117			VP 75 CS- 3475-S
0155			Core 77.4 dia. CS- 3478-S
0136			80 dia. CS- 3478-S
0121		Coated steel pipe	Void 75 CS- 3478-S
0225			SGP 80 CS- 3978-S
0160			VP 75 CS- 3975-S
0174			Core 75 dia. CS- 3973-S
0155			SGP 100 CS-43103-S
0206	32A	Steel pipe PE pipe Conduit 36	Core 75 dia. CS- 4472-S
0136			80 dia. CS- 4478-S
0155			Void 75 CS- 4478-S
0230		PVC pipe	SGP 80 CS- 3978-S
			100 CS-39103-S
			Core 77.4 dia. CS- 3975-S
			80 dia. CS- 3978-S
			Void 75 CS- 3978-S
		Coated steel pipe	SGP 100 CS-48103-S

Size code	Pipe	Sleeve tube	Sleeve seal
0244	40A	Steel pipe PVC pipe PE pipe Conduit 42	VU 100 CS- 49105-S
0189		Coated steel pipe	Core 100 dia. CS- 5498-S
0193	50A	Coated steel pipe	VP 100 CS- 6698-S
0263	65A	Steel pipe	VP 125 CS- 77123-S
0259		PVC pipe PE pipe Conduit 70	VU 100 CS- 77103-S
0263			Core 125 dia. CS- 77123-S
0278		Steel pipe PVC pipe PE pipe Conduit 82	VP 125 CS- 90123-S
0282	80A	Steel pipe	Core 125 dia. CS- 115144-S
0297		PVC pipe PE pipe Conduit 104	VP 150 CS-115148-S
0300		Coated steel pipe	Core 150 dia. CS-115148-S
0329			SGP 150 CS-120153-S
0314	150A	Steel pipe	VP 250 CS-167238-S
0333		PVC pipe PE pipe	VU 200 CS-166199-S
0348		Steel pipe	Core 450 dia. CS-358448-S
0352		Steel pipe	Core 500 dia. CS-408498-S
	500A	Steel pipe	Core 550 dia. CS-460548-S
			Consult

*Consult Akagi in the following situations:
 ●Materials and combinations not in the table
 ●Clearance is too large
 ●Using steam or oil



A18691 Water-stop A ring

Water expansion type water-stop material

Part number A18691 Water-stop A ring

Units (mm)

Size code	Size	Nominal diameter (A)	Applicable pipe outer diameter (φ)	Pipe circumference (approx.)
0012	SAR-50	50	60	188
0027	SAR-65	65	76	239
0031	SAR-80	80	89	280
0154	SAR-90	90	102	321
0046	SAR-100	100	114	358
0065	SAR-125	125	140	440
0070	SAR-150	150	165	518
0084	SAR-175	175	191	600
0099	SAR-200	200	216	678
0101	SAR-250	250	267	838
0116	SAR-300	300	318	999
0135	SAR-350	350	370	1162
0140	SAR-400	400	420	1319

