


AIR-JET VALVES

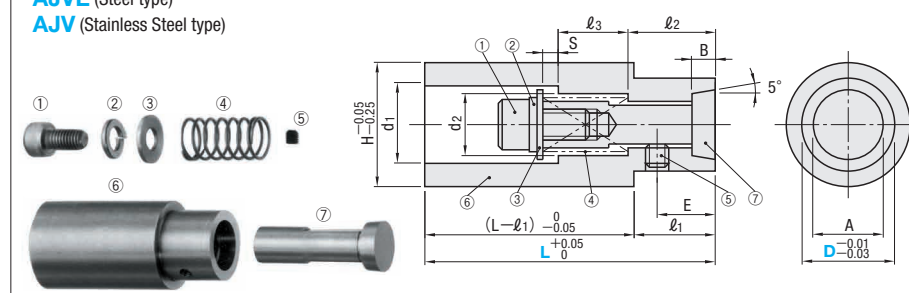
SPACERS FOR AIR-JET VALVE / SPRING PINS & DOWEL PINS

Ⓜ Non JIS material definition is listed on P.1351 - 1352

RoHS



AJVE (Steel type)
AJV (Stainless Steel type)



No.	Item	AJVE		AJV		D	Ejection force N(kgf)	Spring pressure N(kgf)	Components	
		□	□	□	□				①	⑤
①	Socket head cap screw	SCM435	38~43HRC	SUS304	—	10	9.61(0.98)	4.81(0.49)	M 3—L 6	MSW3
②	Spring Washers	SWRH62	42~50HRC	SUS304	—	13	16.67(1.70)	8.34(0.85)	M 4—L 8	MSW3
③	Plain washer	SK5	—	SUS304	—	16	24.51(2.50)	12.26(1.25)	M 5—L10	MSW4
④	SPRINGS	SUS304	—	SUS304	—	20	38.25(3.90)	19.61(2.00)	M 6—L12	MSW4
⑤	Screw plug	SCM435	34~43HRC	SCM435	34~43HRC	25	64.72(6.60)	32.36(3.30)	M 8—L15	MSW5
⑥	Cylinder tube	S45C	33~38HRC	NAK101	35HRC	32	124.54(12.70)	63.74(6.50)	M10—L20	MSW6
⑦	Piston rod	S45C	33~38HRC	NAK101	35HRC					

(kgf)=N×0.101972

Ⓜ The screw plug ⑤ is used to fix the piston rod ⑦ when assembling/disassembling the air-jet valve. Before mounting the air-jet valve on a mold, make sure to loosen the screw plug and check the piston rod movement.
 Ⓜ Periodically tighten the bolt ① in order to prevent the piston rod ⑦ from coming loose.
 Ⓜ Shown here are reference values of ejection force when the air pressure is 49N/cm²(500kPa).
 Ⓜ When using the air-jet valve, set the air pressure at 49N/cm²(500kPa) or higher.

S	E	ℓ ₁	ℓ ₂	ℓ ₃	d ₁	d ₂	H	B	A	Part Number		L	
										Type	D		AJVE (Selection)
1.5	7	12	10.5	8.5	8.5	6.5	15	3	7.5	AJVE (Steel type) AJV (Stainless type)	10	20 25 30 35	19~35
1.5	8	15	14	11	10.5	8.5	18	4	9		13	25 30 35 40	25~40
2.5	10	15	16	12	12.5	10.5	21	4	11		16	30 40 50	28~50
3.0	12	20	21	15	16	13	25	6	14		20	40 50 60	36~60
3.0	12	20	26	18	19	16	32	6	18		25	50 60 70	44~70
5.0	15	25	35	20	25	22	40	8	25		32	70 80	55~80

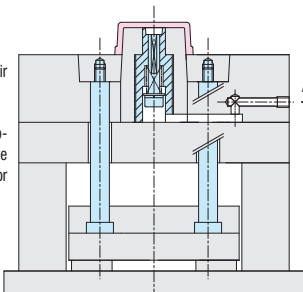
Ⓜ Please select AJV (stainless type) for resin with high liquidity when you select the material, and select AJVE (steel type) for resin with low liquidity.

Order Part Number — L

AJVE 20 — 60
AJV 20 — 38

Price Quotation

Example



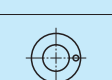
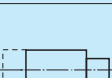


Ⓜ Thrust out the molded product using air pressure.
 Ⓜ Use these valves for thrusting out deep-molded products, when problems are likely to occur if the marks of the ejector pin remain on the product, and so on.

Days to Ship Quotation


Alterations Part Number — L(LC) — (KC · JC · AC)

AJVE 20 — LC58 — KC
Quotation

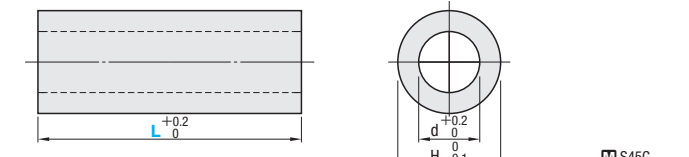
Alterations	Code	Spec.	1Code
	KC	⑥ Adds a key flat on the cylinder tube.	Quotation
	JC	⑥ Adds a spacer connecting slot onto the cylinder tube.	
	AC	Enables the user to keep air blowing all the time. ③ Adds a hole on the plain washer.	
	LC	⑥ Total length alteration 1mm increments Lmin. ≤ LC < L Ⓜ Available for AJVE only.	

D	Lmin.
10	19
13	25
16	28
20	36
25	44
32	55

RoHS

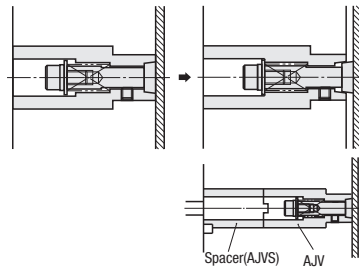


AJVS (Spacers for Air-jet Valve)



d	H	Part Number	L	U/Price
		Type	1mm increments	1~9 L10~50 L51~100
8.5	15	AJVS	10~100	Quotation
10.5	18			
10.5	21			
13	25			
16	32			
25	40			

Example Ⓜ By making a unit with the air-jet valve, you can avoid major machining work; no more than a simple boring process on the mold plane will be required.





Opening the valve with air allows:
 1. Vacuum breaking
 2. Air blowing
 3. Preliminary ejection

Order Part Number — L
AJVS 10 — 53

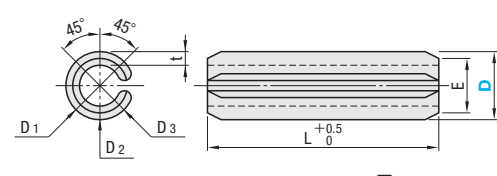
Days to Ship Quotation

Price Quotation

Alterations Part Number — L — (KC · JC)
AJVS 16 — 85 — KC

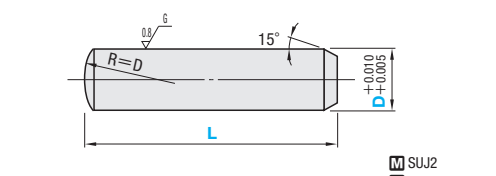
Alterations	Code	Spec.	1Code
	KC	Adds a key flat on the spacer.	Quotation
	JC	Adds a cylinder tube on the spacer connecting slot.	

WSP (Spring Pins chamfered both ends (W type))



Ⓜ SUS 402 J2

MS (Dowel pin)



Ⓜ SUJ2
Ⓜ 58HRC~

Emax	*kN(kgf)	t (Reference)	L	D	Part Number	U/Price	Slide unit price	
							1~299	300~499
1.9	2.76(281)	0.4	8	2.15	2.25	2	Quotation	
2.9	6.20(633)	0.6	10	3.15	3.25	3		
3.9	10.80(1130)	0.8	10	4.2	4.4	4		

Ⓜ The maximum value of D is the maximum value on the pin's circumference; its minimum value is the average of D₁, D₂, and D₃. Reference Value L is in accordance with JISMA No.6 (Standards of Japan Spring Manufacturers Association)
 Ⓜ *The minimum load of double shearing (JIS B2808)

Order Part Number — L

WSP 2
MS 3 — 15

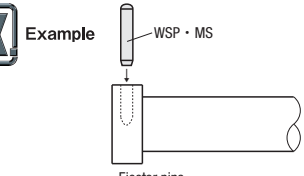
Days to Ship Quotation

• Recommended spring pins & dowel pins

Head thickness of ejector pins in NC alteration	4mm	6 · 8mm	10mm
Spring pin (WSP)	WSP2	WSP3	WSP4
Dowel pin (MS)	MS2	MS3	MS4

Ⓜ The detailed specifications of dowel pins refer to P.1203

Example WSP · MS



Ejector pins