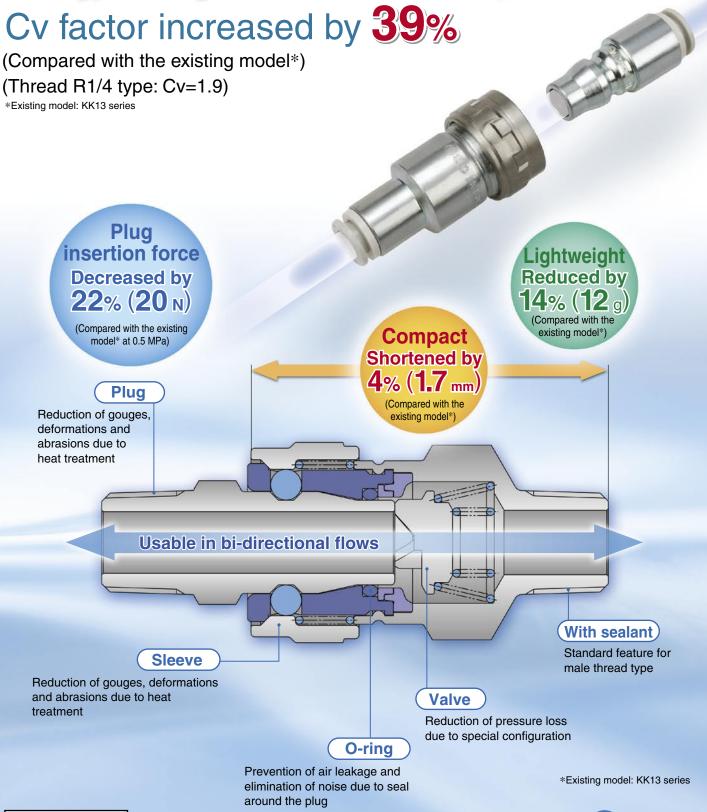


# S Coupler

# Energy saving due to reduction of pressure loss



PAT. PEND.

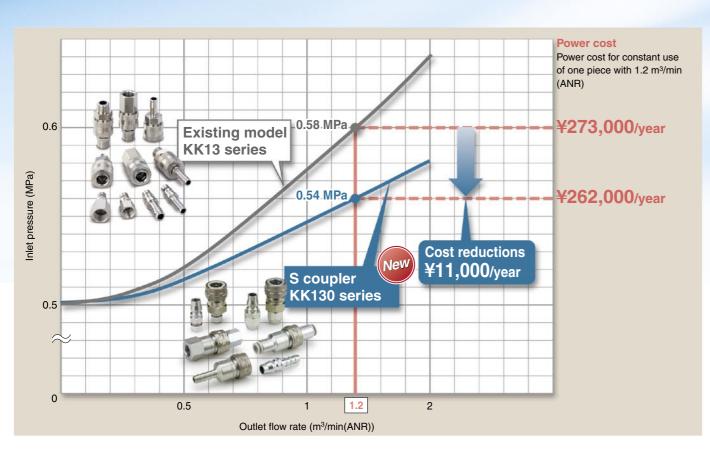


# Energy and cost reduction

Due to a lower pressure loss compared with the existing model (KK13 series), even if you reduce the inlet pressure in an air-blow application, the equivalent outlet pressure and flow rate can be obtained. Reduction of air consumption and compressor power consumption gives you the benefit of reduced costs.

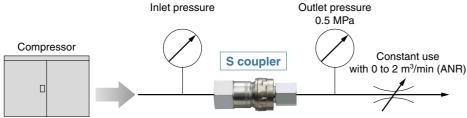


### Air consumption versus inlet pressure/compressor power cost (per one piece of S coupler)



### Conditions

Outlet operating pressure: 0.5 MPa Compressor efficiency: 0.7 Power cost: 15 yen/kWh Annual operation hours: 2500 hours



### Cost reduction effects by S coupler in a factory-wide view

In terms of a factory-wide view, substantial reduction in costs can be achieved.



Note) Relationship between total compressor capacity and air consumption is provided as a general guideline.

### **Conditions**

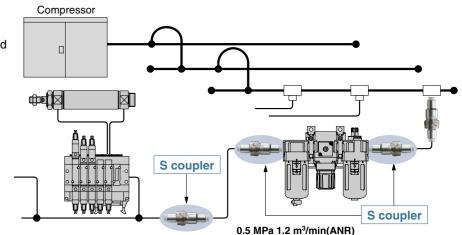
50% of all air consumed by factory passes through four S couplers which are connected to a branched line of the terminal end.

Outlet operating pressure: 0.5 MPa
Air consumption by a branched line of the terminal end: 1.2 m³/min (ANR)
Air consumption hours: 20% of annual operation hours (2500 hours)

Compressor efficiency : 0.7

Power cost :15 yen/kWh

Compressor performance : 8 m³/kWh



## Series KK130

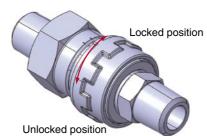
### With one-touch fitting type standardized



Inch size: Ø1/4", Ø5/16", Ø3/8", Ø1/2"

### With lock mechanism (semi-standard)

Prevention of release by an abrupt impact Locked or unlocked position can be held by a sleeve with a detent. Easy installation or removal even in a dark place where locked position marking is invisible.



### **Specifications**

Specifications		
Fluid	Air Note)	
Operating pressure range	0 to 1.5 MPa	
	With one-touch fitting type: 0 to 1.0 MPa	
Proof pressure	2.0 MPa	
Ambient and fluid temperature	−20 to 80°C (No freezing)	
	With one-touch fitting type: -5 to 60°C (No freezing)	
Plating	Sleeve: Electroless nickel plated	
	Other exterior metallic parts: Zinc chromated	
Seal	Male thread with sealant	

Note) Not applicable to water



## Series KK130 Variations

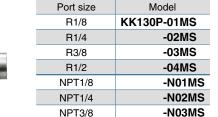
-N04MS



### Plug (P)

### **Male thread**





NPT1/2



Port size	Model
R1/8	KK130S-01MS
R1/4	-02MS
R3/8	-03MS
R1/2	-04MS
NPT1/8	-N01MS
NPT1/4	-N02MS
NPT3/8	-N03MS
NPT1/2	-N04MS

Socket (S)

### Female thread



Port size	Model
Rc1/8	KK130P-01F
Rc1/4	-02F
Rc3/8	-03F
Rc1/2	-04F
NPT1/8	-N01F
NPT1/4	-N02F
NPT3/8	-N03F
NPT1/2	-N04F

### Female thread



Model	Port size
KK130S-01F	Rc1/8
-02F	Rc1/4
-03F	Rc3/8
-04F	Rc1/2
-N01F	NPT1/8
-N02F	NPT1/4
-N03F	NPT3/8
-N04F	NPT1/2

### With barb fitting (for rubber hose)



Nominal size of hose	Model
6(1/4")	KK130P-07B
8(1/4")	-09B
9(3/8")	-11B
12(1/2")	-13B

 $*(\ )$ : Applicable hose I.D.

### With barb fitting (for rubber hose)



	Nominal size of hose	Model
	6(1/4")	KK130S-07B
i	8(1/4")	-09B
	9(3/8")	-11B
	12(1/2")	-13B

\*( ): Applicable hose I.D.

### With nut fitting (for fiber reinforced urethane hose)



Model	Applicable hose I.D./O.D.
KK130P-50N	5/8
-60N	6/9
-65N	6.5/10
-80N	8/12
-85N	8.5/12.5
-110N	11/16

### With nut fitting (for fiber reinforced urethane hose)



Model	Applicable hose I.D./O.D.	
KK130S-50N	5/8	
-60N	6/9	
-65N	6.5/10	
-80N	8/12	
-85N	8.5/12.5	
-110N	11/16	

### With one-touch fitting



Applicable tubing O.D.		Model
Metric size	6	KK130P-06H
	8	-08H
	10	-10H
	12	-12H
Inch size	1/4"	-07H
	5/16"	-09H
	3/8"	-11H
	1/2"	-13H

### With one-touch fitting



Appl	icable tubing O.D.	Model
æ	6	KK130S-06H
Siz	8	-08H
Metric size	10	-10H
Σ	12	-12H
	1/4"	-07H
Inch size	5/16"	-09H
년 년	3/8"	-11H
_	1/2"	-13H

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