



**KYUNG NAM M.TECH**

We guarantee to do our best treating  
our precision machine technology and  
customer as family.





## | Greeting |

We guarantee to do our best treating our precision machine technology and customer as family.

Our company tried our best to contribute as a key part in precision machine technology field ever since its establishment in 1985.

We hold equipments and technology that follows the globalization due to our endless effort based on deep interest on coupler related to World's top Korea's shipbuilding business and equipments. Being a stainless coupler manufacturer, we try to keep up with the modern society and focus on improving technology.

In the future, KN COUPLER will provide the best products and service to the customers and be able to fulfill the common interest of customer, employee, subcontractor and community.

We also give our words to become a "global top company" that dedicates to the development of human society.

We ask for a lot of interest and support to our company that values responsibility and trust as the foremost.

CEO LEE Eun-Ah





## | Going value |

### Challenging Spirit

Create whatsoever and carry forward.

### Globalization

Manufacturing high quality with effort for technology improvement and increase company value by leading to economical added value and dedicate to global society.

### Respect Human Mind

Striving for the same goal by giving the chance to decide freely and reaching the common goal under respect, trust, equality, honesty and teamwork.

### Reliable Brand

Create a reliability brand to the customers through competitiveness and technology and brand's globalization

## | Authentication certificate |



ISO9001



INNO\_BIZ



Risk evaluating and recognizing



Design registration



Certificate of trademark registration



Utility model registration



Self control safety certificate  
(torch flash back arrestor)



Self control safety certificate  
(25A flash back arrestor)



Self control safety certificate  
(20A flash back arrestor)



Self control safety certificate  
(10A flash back arrestor)



CNC shelf patent



Multiple sealed patent



## | History |

- 2014. 09 | Registered poison gas detection method in multiply sealed space patent
- 2014. 03 | Recognized excellent place of business from danger evaluation
- 2013. 08 | Chosen as technology innovation medium and small firm (INNO-BIZ)
- 2012. 05 | KN COUPLER 2nd factory's expansion
- 2012. 02 | Registered CNC shelf building management system patent
- 2009. 06 | Acquired ISO9001 quality certification
- 2009. 05 | KN COUPLER 2nd factory establishment
- 2009. 04 | Registered as Hyundai Samho Heavy Industries subcontractor
- 2008. 04 | Head office and construction relocation  
(316-9 Daejeo 2-dong ,Busan Metropolitan City)
- 2008. 03 | Construct HHIC HONGKONG SUBIC dockyard MANIFOLD 3rd construction order
- 2007. 08 | Construct HHIC HONGKONG SUBIC dockyard MANIFOLD 2nd construction order
- 2007. 07 | Register as s Daewoo Shipbuilding & Marine Engineering Co., Ltd. subcontractor
- 2007. 05 | Establish Philippine branch(MANILA, SUBIC)
- 2006. 10 | Construct HHIC HONGKONG SUBIC dockyard MANIFOLD 1st construction order
- 2006. 09 | Register as HHIC HONGKONG subcontractor
- 2005. 06 | Register as Hyundai Mipo Dockyard Co., Ltd. subcontractor
- 2004. 07 | Register as Samsung Fine Chemicals Co., Ltd subcontractor
- 2002. 04 | Patent on UNIVERSAL NOZZLE that cleans the DOCK after the ship launches for the first time
- 1999. 07 | Kyung Nam M-tech Co., Ltd. corporation establishment
- 1993. 07 | BLASTING equipment development patent
- 1993. 06 | Register as Hanjin Heavy Industries & Construction Co. subcontractor
- 1990. 03 | Register as Hanjin Heavy Industries & Construction Co. subcontractor
- 1985. 11 | Kyungnam industry establishment



## | Equipment holdings |

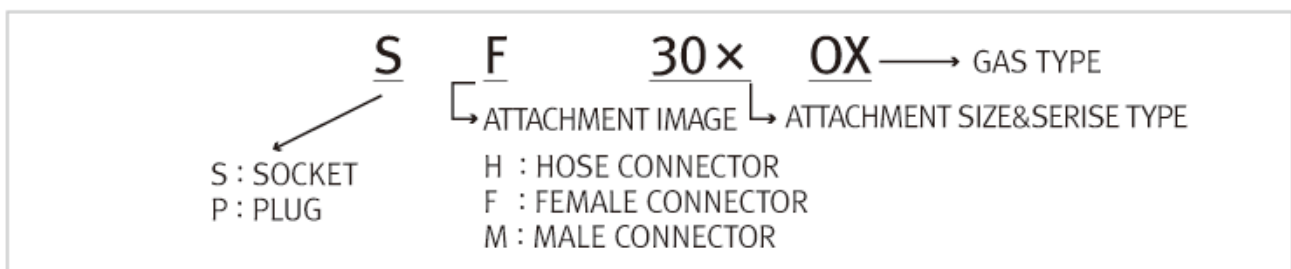
NO.	EQUIPMENT	SIZE	QUANTITY	MAKER
1	DIGITAL VERNIER CALIPERS	0~150mm	2 EA	MITUOTYO
2	DIGITAL VERNIER CALIPERS- WATER PROOF TYPE	0~150mm	1 EA 2 EA	MITUOTYO
3	TUBE MICROMETER	0~25mm	1 EA	MITUOTYO
4	TUBE MICROMETER	25~50mm	16 EA	MITUOTYO
5	DIAL HIGHT GAUGE	0~300mm	1 EA	MITUOTYO
6	PRESSURE GAUGE	0~10kgf/cm2	1 EA	SAEHAN
7	RING PITCH GAUGE	1/8"~1" ( 7 TYPE)	1 EA	OJIYAS
8	PLUG PITCH GAUGE	1/8"~1" ( 7 TYPE)	1 EA	OJIYAS
9	SCREW GAUGE FOR TAPER THREAD	1/8"~1" ( 7 TYPE)	2 EA	OJIYAL



## | Product |



### Word explanation



### COUPLER Selection Checklist

- 1) Gas pressure : select a proper coupler with body and seal materials that suit fluid and its temperature.
- 2) Type of Gas: select a proper coupler with body and seal material(standard material:NBR) that suit type of gas.
- 3) Structure of the COUPLER : select a proper coupler with Suitable for use.  
Two-way shut-off (SP), Straight through(TSP, CAMLOCK), One-way shut-off (HI-COUPLER:STANDARD)
- 4) Type of Color : Use the same colors used gas hose  
The color for KN COUPLER can be chosen by the gas type.



- Registration Number : 30-0540479 Application number : 2008-0035655
- Color marking : By marking colors in each gas coupler and preventing accidents by giving the same color to gas distributor and hose
- P/COVER : Primarily absorbs the external shock when using COUPLER.

### Instructions for use

- 1) Don't remove the coupler during pressurization. It may cause danger to the work.
- 2) Don't go above the maximum pressure.
- 3) Only use it within the allowable temperature. This might cause damage to SEAL area.
- 4) Don't use it in polluted area. When debris enters inside it becomes the cause of a breakdown.
- 5) Do not open the equipment randomly. It becomes to direct cause to leakage.
- 6) When more strength is involved when plumbing it might lead to damage.
- 7) When removing the coupler use of fire is strictly prohibited. It might lead to fire.
- 8) When the exchanging period passes being an expendable material replace it.



# | KN COUPLER SERISE 20 |



## Structure of the COUPLER – One-way shut-off

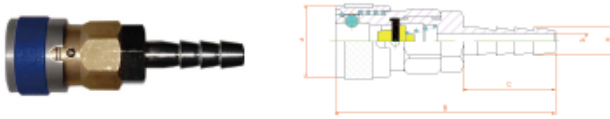
Coupler material	BODY	BSBM
	SOCKET	STEEL(chromium plating)
	SLEEVE	SUS304
Plug material	STEEL(chromium plating)	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20°C~+80°C	

- 1) Can be used continuously within the working pressure  
 2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.  
 3) The working temperature, highest and lowest temperature may differ by the working environment.

One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

## [ 20S SOCKET ]



Model	Size (mm)				
	A	B	C	D	E
SH20C	23	70.5	29.5	5	8.8

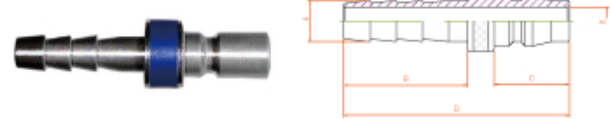


Model	Size (mm)				
	A	B	C	D	E
SM20C	23	55	13	8	PT1/4"
SM30C	23	55	14	8	PT3/8"
SM40C	23	56	14	8	PT1/2"

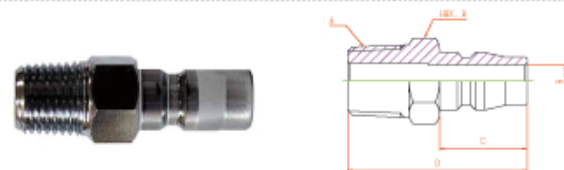


Model	Size (mm)				
	A	B	C	D	E
★ SF20C	23	51	17	8	PT1/4"
SF30C	23	51	17	8	PT3/8"
SF40C	23	52	17	8	PT1/2"

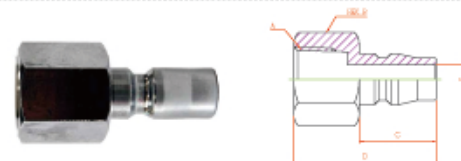
## [ 20S PLUG ]



Model	Size (mm)				
	A	B	C	D	E
PH20C	8.8	30	20	57.5	6.3



Model	Size (mm)				
	A	B	C	D	E
★ PM20C	PT1/4"	14	19	40	6.3
★ PM30C	PT3/8"	17	19	41	6.3
★ PM40C	PT1/2"	21	19	43	6.3



Model	Size (mm)				
	A	B	C	D	E
★ PF20C	PT1/4"	17	19	40	6.3
★ PF30C	PT3/8"	21	19	41	6.3
★ PF40C	PT1/2"	23	19	43	6.3
PFB20C	M16	19	24	38	6.4



**PFB20C PLUG** - Back draft preventing plug  
 Back draft preventing valve is built in and prevents gas back draft.



# KN COUPLER SERISE 30



## Structure of the COUPLER – One-way shut-off

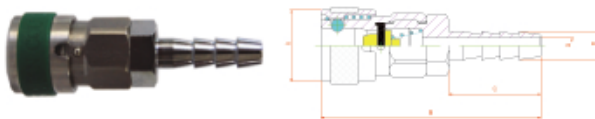
Coupler material	BODY	SUS304
	SOCKET	STEEL(chromium plating)
	SLEEVE	SUS304
Plug material	STEEL(chromium plating)	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20℃~+80℃	

- 1) Can be used continuously within the working pressure  
 2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.  
 3) The working temperature, highest and lowest temperature may differ by the working environment.

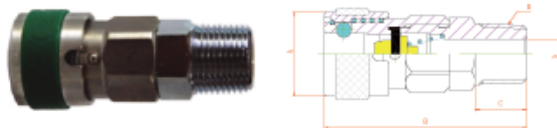
One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

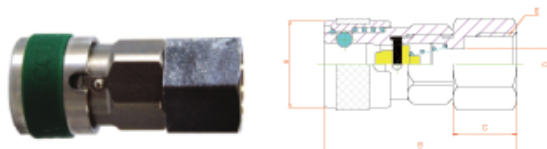
## [ 30S SOCKET ]



Model	Size (mm)				
	A	B	C	D	E
SH20X	23	70.5	29.5	5	8.8

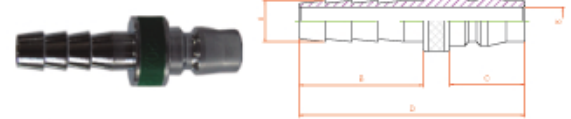


Model	Size (mm)				
	A	B	C	D	E
SM20X	23	55	13	8	PT1/4"
SM30X	23	56	14	8	PT3/8"
SM40X	23	58	16	8	PT1/2"

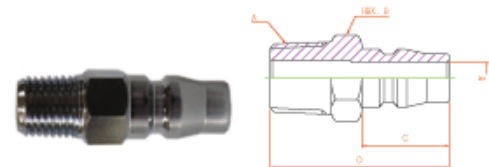


Model	Size (mm)				
	A	B	C	D	E
★ SF20X	23	51	17	8	PT1/4"
SF30X	23	51	17	8	PT3/8"
SF40X	23	52	17	8	PT1/2"

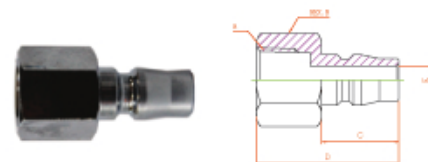
## [ 30S PLUG ]



Model	Size (mm)				
	A	B	C	D	E
PH20X	8.8	30	20	57.5	6.3



Model	Size (mm)				
	A	B	C	D	E
★ PM20X	PT1/4"	14	20	41	6.3
★ PM30X	PT3/8"	17	20	42	6.3
★ PM40X	PT1/2"	21	20	44	6.3

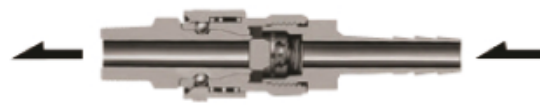


Model	Size (mm)				
	A	B	C	D	E
PF20X	PT1/4"	14	20	41	6.3
★ PF30X	PT3/8"	17	20	42	6.3
★ PF40X	PT1/2"	21	20	44	6.3
PF20X	UNF	14	20	41	6.3
PFB20X	M16	19	24	38	6.4



**PFB20X PLUG** - Back draft preventing plug  
 draft preventing valve is built in and prevents gas back draft.

# | KN COUPLER SERISE 40 |



## Structure of the COUPLER – One-way shut-off

Coupler material	BODY	SUS304
	SOCKET	STEEL(chromium plating), SUS304
	SLEEVE	SUS304
Plug material	STEEL(chromium plating), SUS304	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20℃~+80℃	

- 1) Can be used continuously within the working pressure  
 2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.  
 3) The working temperature, highest and lowest temperature may differ by the working environment.

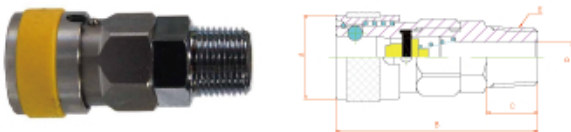
One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

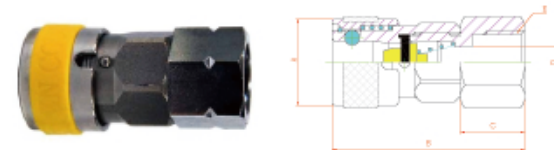
## [ 40S SOCKET ]



Model	Size (mm)				
	A	B	C	D	E
SH20	25	70.5	29.5	5	8.8
SH30	25	76.5	35.5	7	11
SH40	25	76.5	35.5	9	13.5

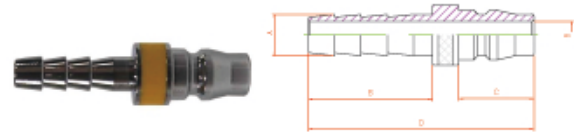


Model	Size (mm)				
	A	B	C	D	E
SM20	25	55	13	8	PT1/4"
SM30	25	56	14	9	PT3/8"
SM40	25	58	16	9	PT1/2"

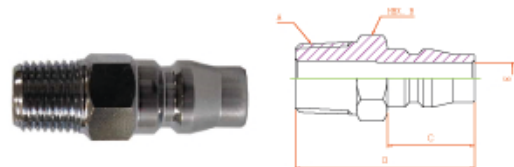


Model	Size (mm)				
	A	B	C	D	E
SF20	25	51	17	8	PT1/4"
SF30	25	51	17	9	PT3/8"
SF40	25	52	18	9	PT1/2"

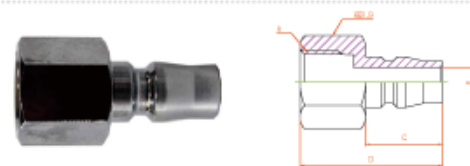
## [ 40S PLUG ]



Model	Size (mm)				
	A	B	C	D	E
PH20	8.8	30	20	57.5	7.3
PH30	11	36	20	63	7.3
PH40	13.5	36	20	63	7.3



Model	Size (mm)				
	A	B	C	D	E
PM20	PT1/4"	14	20	41	7.3
PM30	PT3/8"	17	20	43	7.3
PM40	PT1/2"	21	20	45	7.3



Model	Size (mm)				
	A	B	C	D	E
PF20	PT1/4"	17	20	41	7.3
PF30	PT3/8"	21	20	42	7.3
PF40	PT1/2"	23	20	44	7.3
PF20	UNF	17	20	41	7.3



# | KN COUPLER SERISE 300 |



## Structure of the COUPLER – One-way shut-off

Coupler material	BODY	AL, SUS304
	SOCKET	STEEL(chromium plating)
	SLEEVE	SUS304
Plug material	STEEL(chromium plating)	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20℃~+80℃	

1) Can be used continuously within the working pressure

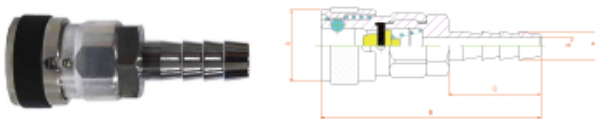
2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.

3) The working temperature, highest and lowest temperature may differ by the working environment.

One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

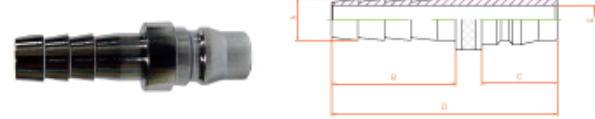
(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

## [ 300S SOCKET ]

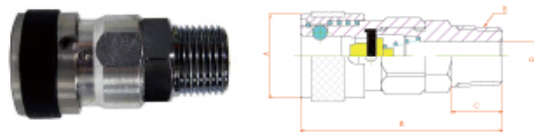


Model	Size (mm)				
	A	B	C	D	E
SH100	30	73.5	29.5	5	8.8
SH300	30	79.5	35.5	9	13.5

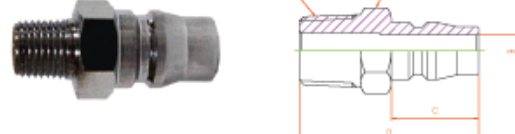
## [ 300S PLUG ]



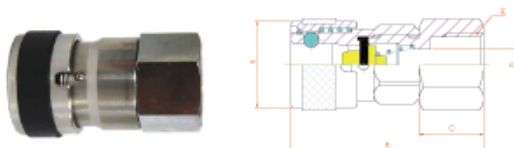
Model	Size (mm)				
	A	B	C	D	E
PH100	8.8	30	22	60	10.3
PH300	13.5	36	22	66	10.3



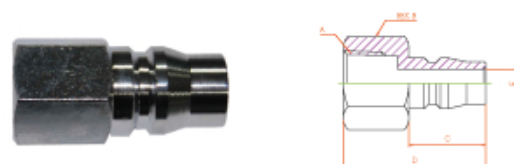
Model	Size (mm)				
	A	B	C	D	E
SM100	30	60	15	12	PT3/8"
SM300	30	61	16	12	PT1/2"



Model	Size (mm)				
	A	B	C	D	E
PM200	PT1/4"	19	22	43	10.3
PM300	PT3/8"	19	22	44	10.3
PM300	PT1/2"	22	22	46	10.3



Model	Size (mm)				
	A	B	C	D	E
SF100	30	54	17	12	PT3/8"
SF300	30	55	18	12	PT1/2"



※ Order item list  
PF100 (PT 1/4",PT1/8")  
PF300 (PT 3/8")

# | KN COUPLER SERISE 500 |



## Structure of the COUPLER – One-way shut-off

Coupler material	BODY	SUS304
	SOCKET	STEEL(chromium plating),SUS304
	SLEEVE	SUS304
Plug material	STEEL(chromium plating),SUS304	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20℃~+80℃	

1) Can be used continuously within the working pressure

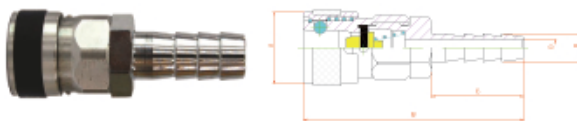
2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.

3) The working temperature, highest and lowest temperature may differ by the working environment.

One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

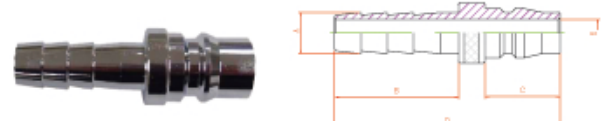
(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

## [ 500S SOCKET ]

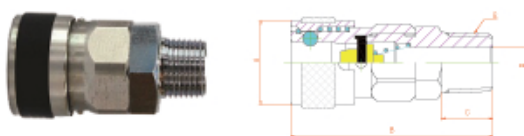


Model	Size (mm)				
	A	B	C	D	E
★ SH200	35	78.5	29.5	5	8.8
SH400	35	84.5	35.5	9	13.5
SH600	35	94	45	15	20
SH800	35	95	46	20	25

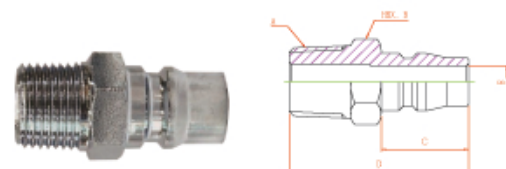
## [ 500S PLUG ]



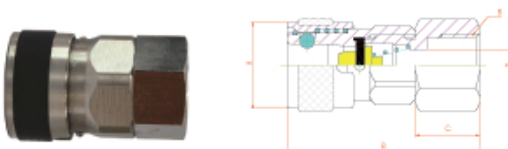
Model	Size (mm)				
	A	B	C	D	E
PH200	8.8	31	24	62	12.5
PH400	13.5	36	24	66	12.5
PH600	20	45	24	77	12.5
PH800	25	45	24	78	12.5



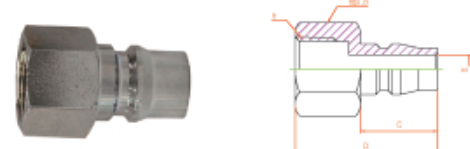
Model	Size (mm)				
	A	B	C	D	E
SM400	35	66	16	13	PT1/2"
SM600	35	68	18	16	PT3/4"
SM800	35	72	22	16	PT 1"



Model	Size (mm)				
	A	B	C	D	E
PM400	PT1/2"	23	24	49	12.5
PM600	PT3/4"	27	24	51	12.5
PM800	PT 1"	36	24	55	12.5



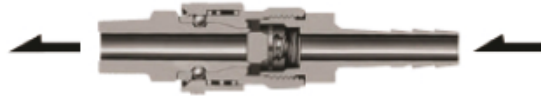
Model	Size (mm)				
	A	B	C	D	E
SF400	35	58	18	13	PT1/2"
SF600	35	60	20	16	PT3/4"
SF800	35	66	26	16	PT 1"



Model	Size (mm)				
	A	B	C	D	E
PF400	PT1/2"	25	24	42	12.5
PF600	PT3/4"	32	24	44	12.5
PF800	PT 1"	38	24	50	12.5



# KN COUPLER SERISE 900C



## Structure of the COUPLER – One-way shut-off

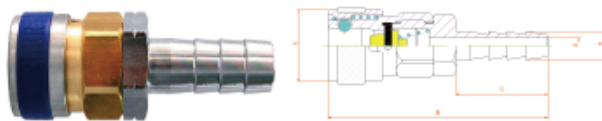
Coupler material	BODY	BSBM
	SOCKET	STEEL(chromium plating), SUS304
	SLEEVE	SUS304
Plug material		SUS304
Working pressure <sup>1)</sup>		7kgf/cm <sup>2</sup>
Maximum pressure <sup>2)</sup>		10kgf/cm <sup>2</sup>
Seal(NBR) operating temperature <sup>3)</sup>		-20℃~+80℃

- 1) Can be used continuously within the working pressure  
 2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.  
 3) The working temperature, highest and lowest temperature may differ by the working environment.

One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

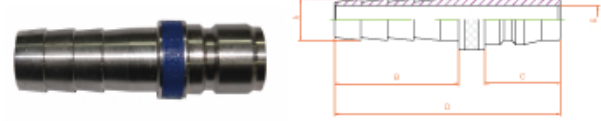
(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

## [ 900C SOCKET ]

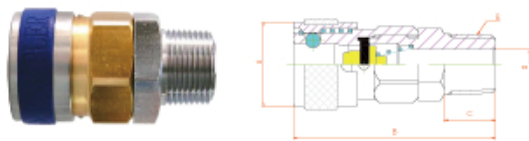


Model	Size (mm)				
	A	B	C	D	E
SH900C	38	93	45	15	20.5

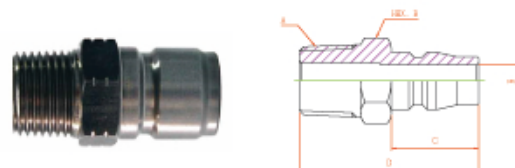
## [ 900C PLUG ]



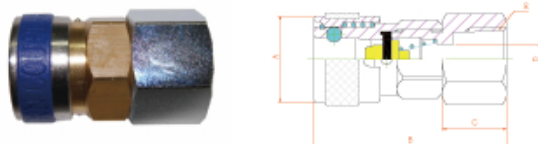
Model	Size (mm)				
	A	B	C	D	E
PH900C	20	45	24	78	15.5



Model	Size (mm)				
	A	B	C	D	E
SM910C	38	67	17	14	PT1/2"
SM920C	38	67	18	17	PT3/4"
SM930C	38	72	22	18	PT1"



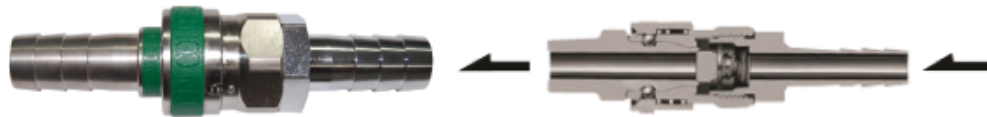
Model	Size (mm)				
	A	B	C	D	E
PM910C	PT1/2"	25	24	49	15.5
PM920C	PT3/4"	25	24	49	15.5



Model	Size (mm)				
	A	B	C	D	E
SF910C	38	60	20	14	PT1/2"
SF920C	38	65	25	18	PT3/4"
SF930C	38	67	27	18	PT1"

※ Order item list  
 PF900C PLUG

# | KN COUPLER SERISE 900X |



## Structure of the COUPLER – One-way shut-off

Coupler material	BODY	SUS304
	SOCKET	STEEL(chromium plating), SUS304
	SLEEVE	SUS304
Plug material	SUS304	
Working pressure <sup>1)</sup>	7kgf/cm <sup>2</sup>	
Maximum pressure <sup>2)</sup>	10kgf/cm <sup>2</sup>	
Seal(NBR) operating temperature <sup>3)</sup>	-20℃~+80℃	

1) Can be used continuously within the working pressure

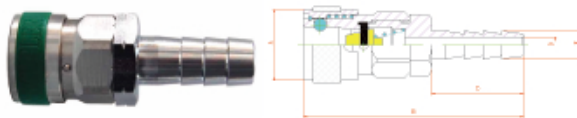
2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.

3) The working temperature, highest and lowest temperature may differ by the working environment.

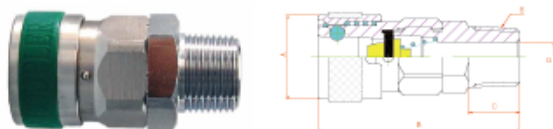
One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

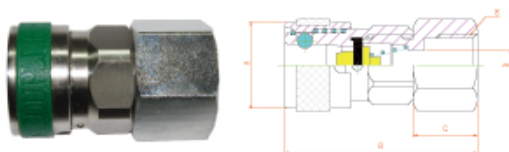
## [ 900X SOCKET ]



Model	Size (mm)				
	A	B	C	D	E
SH900X	38	93	45	15	20.5

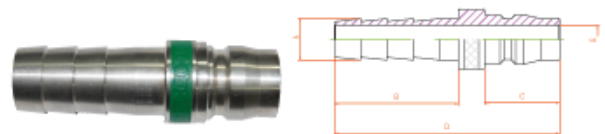


Model	Size (mm)				
	A	B	C	D	E
SM910X	38	67	17	14	PT1/2"
SM920X	38	67	18	17	PT3/4"
SM930X	38	38	22	18	PT1"

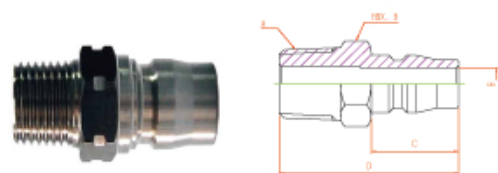


Model	Size (mm)				
	A	B	C	D	E
SF910X	38	67	20	14	PT1/2"
SF920X	38	65	25	18	PT3/4"
SF930X	38	67	27	18	PT1"

## [ 900X PLUG ]



Model	Size (mm)				
	A	B	C	D	E
PH900X	20	45	24	78	15.5

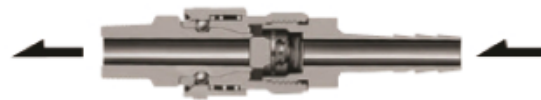


Model	Size (mm)				
	A	B	C	D	E
PM910X	PT1/2"	25	24	49	15.5
PM920X	PT3/4"	25	24	49	15.5

※ Order item list  
PF900X PLUG



# KN COUPLER SERISE 900



## Structure of the COUPLER – One-way shut-off

Coupler material	BODY	SUS304
	SOCKET	STEEL(chromium plating),SUS304
	SLEEVE	SUS304
Plug material		SUS304
Working pressure <sup>1)</sup>		7kgf/cm <sup>2</sup>
Maximum pressure <sup>2)</sup>		10kgf/cm <sup>2</sup>
Seal(NBR) operating temperature <sup>3)</sup>		-20℃~+80℃

1) Can be used continuously within the working pressure

2) The maximum pressure coupler can bear and continuous use in impossible in maximum pressure.

3) The working temperature, highest and lowest temperature may differ by the working environment.

One touch connection which is used in air or gas pipe, equipment and workable hose connection. For SOCKET, PLUG many attachment shapes are available and are visually safe that it has colors on each gas. It prevents from gas accidents because each series are not compatible with one another.

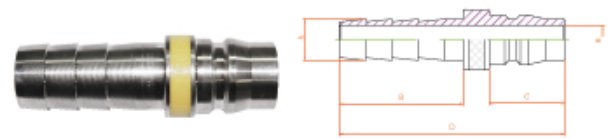
(Gas Type Color – OXYGEN-Green, CO<sub>2</sub>-Blue, E/T-Yellow, LPG-Orange, Air-Black or White inquiries for other colors )

## [ 900S SOCKET ]

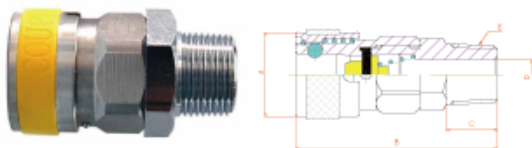


Model	Size (mm)				
	A	B	C	D	E
SH900	38	93	45	15	20.5

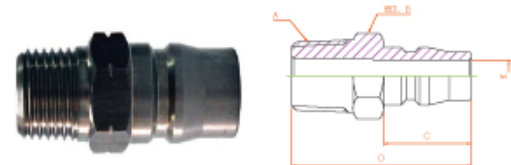
## [ 900S PLUG ]



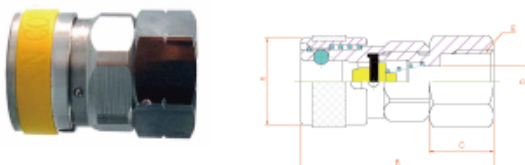
Model	Size (mm)				
	A	B	C	D	E
PH900	20	45	24	78	15.5



Model	Size (mm)				
	A	B	C	D	E
SM910	38	67	17	14	PT1/2"
SM920	38	67	18	17	PT3/4"
SM930	72	22	22	18	PT1"



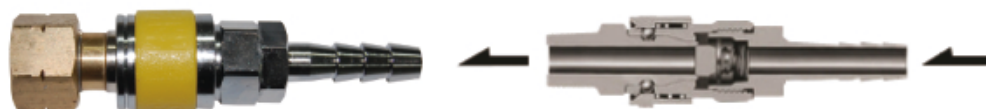
Model	Size (mm)				
	A	B	C	D	E
PH910	PT1/2"	25	24	49	15.5
PH920	PT3/4"	25	24	49	15.5



Model	Size (mm)				
	A	B	C	D	E
SF910	38	67	20	14	PT1/2"
SF920	38	65	25	18	PT3/4"
SF930	38	67	27	18	PT1"

※ Order item list  
PF900 PLUG

# | KN COUPLER SAFETY SERISE |



## Structure of the COUPLER – One-way shut-off

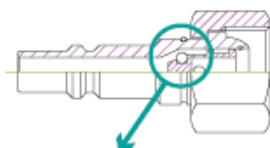
Coupler material	BODY	BSBM
	SOCKET	BSBM
	SLEEVE	BSBM
Plug material		BSBM
Working pressure <sup>1)</sup>		7kgf/cm <sup>2</sup>
Maximum pressure <sup>2)</sup>		10kgf/cm <sup>2</sup>
Seal(NBR) operating temperature <sup>3)</sup>		-20℃~+80℃

1) Can be used continuously within the working pressure

2) The maximum pressure coupler can bear and continuous use is impossible in maximum pressure.

3) The working temperature, highest and lowest temperature may differ by the working environment.

Oxygen/GAS coupler is for safe cutting and high efficiency. It is made with double safety airtight structure so there is no gas leaking when removing. The plug that is put to torch has backdraft prevention valve inside avoiding the danger of backdraft due to gas mixture.



– Backdraft prevention function: prevents the danger of backdraft due to gas mix-up

## [ KOIKE TYPE ]

Division		Model	Size	Remark
COUPLER		SH22(K)	5/16" HOSE	Oxygen type
		SH33(K)	5/16" HOSE	Gas type
PLUG		PFB22(K)	M16*1.5 R	Backdraft prevention plug
		PFB33(K)	M16*1.5 L	Backdraft prevention plug
		PHB22(K)	5/16" HOSE	Backdraft prevention plug
		PHB33(K)	5/16" HOSE	Backdraft prevention plug

## [ NITTO TYPE ]

Division		Model	Size	Remark
SOCKET		SH21(N)	1/4" HOSE	Oxygen type
		SH22(N)	5/16" HOSE	Oxygen type
		SM22(N)	PT 1/4"	Oxygen type
		SM23(N)	PT 3/8"	Oxygen type
		SM24(N)	PT 1/2"	Oxygen type
		SF22(N)	UNF	Oxygen type
		SH33(N)	5/16" HOSE	Gas type
		SM33(N)	PT 3/8"	Gas type
PLUG		SM34(N)	PT 1/2"	Gas type
		PFB22(N)	M16*1.5 R	Backdraft prevention plug
		PFB33(N)	M16*1.5 L	Backdraft prevention plug
		PHB22(N)	5/16" HOSE	Backdraft prevention plug
		PHB33(N)	5/16" HOSE	Backdraft prevention plug
		PH22(N)	5/16" HOSE	Through type plug(chromium plating)
		PH33(N)	5/16" HOSE	Through type plug(chromium plating)
		PF22(N)	UNF(9/16")	Through type plug(chromium plating)



## SP COUPLER

### Structure of the COUPLER – Two-way shut-off

The fluid does not leak when separating because the plug is built in both sides of socket and plug. Can be made with appropriate materials depending on the used fluid (BSBM, SUS304, SUS316)



Model	Size	Length	ROUND	Weight(g)
1S	PT 1/8"	48	14xø18	86
2S	PT 1/4"	58	19xø22	134
3S	PT 3/8"	65	21xø25	209
4S	PT 1/2"	72	29xø35	431
6S	PT 3/4"	88	35xø41	714
8S	PT 1"	102	41xø48	1,006
10S	PT 1-1/4"	115	54xø59	1,596
12S	PT 1-1/2"	124	63xø69	2,345
16S	PT 2"	132	77xø86	3,668

Model	Size	Length	HEXARGON	Weight(g)
1P	PT 1/8"	29	14	19
2P	PT 1/4"	36	17	35
3P	PT 3/8"	40	21	60
4P	PT 1/2"	44	29	124
6P	PT 3/4"	52	35	213
8P	PT 1"	62	41	352
10P	PT 1-1/4"	70	54	596
12P	PT 1-1/2"	75	63	895
16P	PT 2"	80	77	1,512

## TSP COUPLER

### Structure of the COUPLER – Straight through

The advantage is that the flow rate is high because there is no socket and plug that there is almost no pressure loss. It is appropriate for fluid with high viscosity for being through type structure. Can be made with appropriate materials depending on the used fluid (BSBM, SUS304, SUS316)



Model	Size	Length	ROUND	Weight(g)
1TSH	1/8" HOSE	40	17.5	24
2TSH	1/4" HOSE	55	24	64
3TSH	3/8" HOSE	62	28	96
4TSH	1/2" HOSE	74	35	177
6TSH	3/4" HOSE	90	45	350
8TSH	1" HOSE	105	58	633
10TSH	1-1/4" HOSE	117	69	1,335
12TSH	1-1/2" HOSE	128	75	1,780
16TSH	2" HOSE	141	98	2,825

Model	Size	Length	ROUND	Weight(g)
1TPH	1/8" HOSE	41	12	15
2TPH	1/4" HOSE	53	14	21
3TPH	3/8" HOSE	60	18	38
4TPH	1/2" HOSE	70	22	71
6TPH	3/4" HOSE	84	28	135
8TPH	1" HOSE	105	40	329
10TPH	1-1/4" HOSE	121	48	500
12TPH	1-1/2" HOSE	132	55	660
16TPH	2" HOSE	142	70	1,345

Model	Size	Length	HEXAGON	Weight(g)
1TSF	PT 1/8"	27	14	25
2TSF	PT 1/4"	32	19	57
3TSF	PT 3/8"	35	23	83
4TSF	PT 1/2"	42	29	154
6TSF	PT 3/4"	48	38	289
8TSF	PT 1"	59	50	561
10TSF	PT 1-1/4"	64	54	815
12TSF	PT 1-1/2"	71	58	980
16TSF	PT 2"	80	77	1,675

Model	Size	Length	HEXAGON	Weight(g)
1TPF	PT 1/8"	26	14	14
2TPF	PT 1/4"	34	17	29
3TPF	PT 3/8"	38	21	43
4TPF	PT 1/2"	45	29	104
6TPF	PT 3/4"	51	35	167
8TPF	PT 1"	60	41	323
10TPF	PT 1-1/4"	64	54	573
12TPF	PT 1-1/2"	75	58	630
16TPF	PT 2"	83	77	1,190

Model	Size	Length	HEXAGON	Weight(g)
1TSM	PT 1/8"	30	14	26
2TSM	PT 1/4"	42	19	67
3TSM	PT 3/8"	46	23	100
4TSM	PT 1/2"	56	29	179
6TSM	PT 3/4"	65	38	346
8TSM	PT 1"	76	50	633
10TSM	PT 1-1/4"	86	54	955
12TSM	PT 1-1/2"	95	58	1,180
16TSM	PT 2"	108	77	2,000

Model	Size	Length	HEXAGON	Weight(g)
1TPM	PT 1/8"	32	12	17
2TPM	PT 1/4"	38	17	30
3TPM	PT 3/8"	42	19	42
4TPM	PT 1/2"	52	22	81
6TPM	PT 3/4"	59	32	165
8TPM	PT 1"	73	41	274
10TPM	PT 1-1/4"	83	50	530
12TPM	PT 1-1/2"	93	54	665
16TPM	PT 2"	102	75	1,250

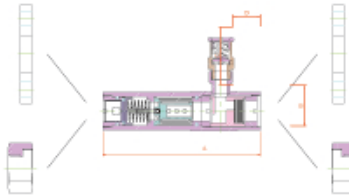
# KN COUPLER FLASH BACK ARRESTOR

KN FLASH BACK ARRESTOR is a equipment that can prevent the possible fire counterflow GAS from firework back fire reaction. One is piping back fire protector which has safety valve and the other is unique structured TORCH & COUPLER FLASH BACK ARRESTOR. They can be used depending on the purpose or the type of pipeline.  
KN FLASH BACK ARRESTOR is made under performance criteria of Korea Occupational Safety and Health Agency Act.

## [ PIPING FLASH BACK ARRESTOR ]



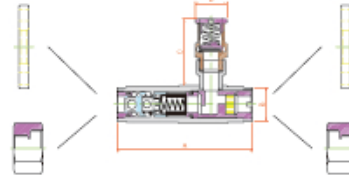
Model : KNDFA-N025  
Material : BODY-SUS  
FLANGE-SUS  
SOCKET-BRASS(Chromium plating)  
Internal parts - BRASS, SUS  
Approval Number : 11-AV1FD-0207



Size (mm)			
A	B	C	D
200	50	68	28



Model : KNDFA-S020  
Material : BODY-SUS  
FLANGE-SUS  
SOCKET-BRASS(Chromium plating)  
Internal parts - BRASS, SUS  
Approval Number : 12-AV1FD-0002



Size (mm)			
A	B	C	D
185	38	68	28

### Merit

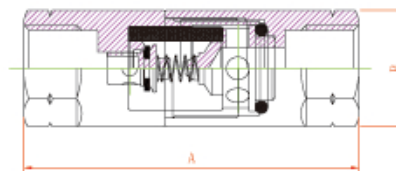
- 1)The special safety valve function lets the inner pressure released before exploding and thus the products durability is longed by protecting special flame propagation which prevents GAS backfire.
- 2)It prevents the influx of foreign material due metal net and SUS FILTER near the GAS vent.
- 3)Use the material for the body and the internal parts are not corrode(BRASS, SUS) will protect the function.
- 4)It can be used in inflammability gas in general except for corrosive gas.
- 5)Can be manufactured according to the application of the field used. (FLANGE TYPE, SOCKET TYPE)

## [ TORCH & COUPLER FLASH BACK ARRESTOR ]



Model : KNDFA-M16L  
Material : BRASS  
Screw Size : 10A  
Approval Number : 10-AV1FD-0202

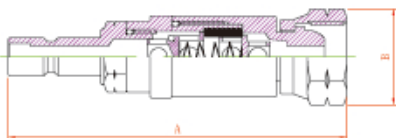
※ 결함 형태에 따라 연결 NIPPLE 사용가능



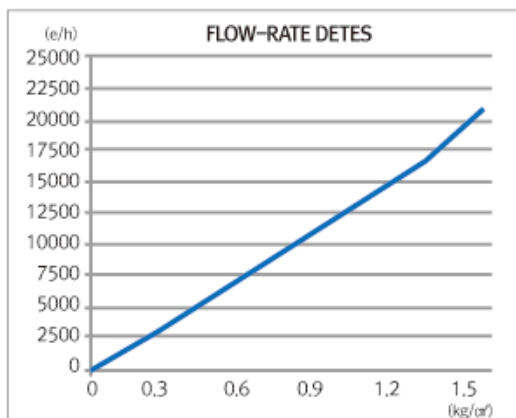
Size (mm)		
A	B	Weight(g)
64	22	125



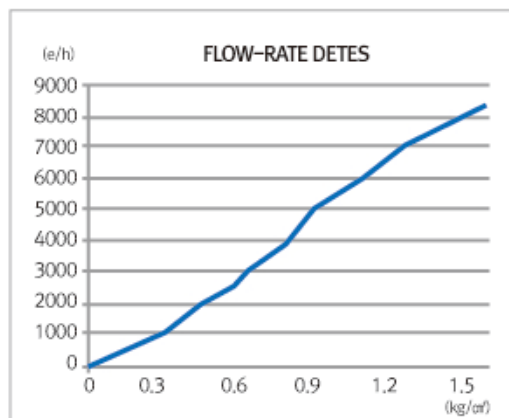
Model : KNDFA-S  
Material : BRASS  
Screw Size : M16L (Gas type)  
M16R (Oxygen type)  
PLUG Attachment : K22 PLUG, K33 PLUG  
Approval Number : 11-AV1FD-0005



Size (mm)		
A	B	Weight(g)
47	18	70



〈PIPING FLASH BACK ARRESTOR〉



〈TORCH & COUPLER FLASH BACK ARRESTOR〉

### NOTICE

- 1)It can be installed at the end of gas distributor
- 2)The gas input direction follows the arrow on the surface of the FLASH BACK ARRESTOR.
- 3)Use it after checking the gas flow direction once it is entered.
- 4)When the changing period is overdue, being a expendable material replace and use.



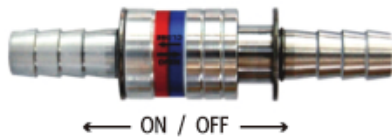
# KN COUPLER SPECIAL ITEM

## [ SLIDING COUPLER ]

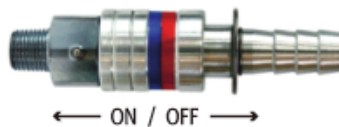
Registration number 20-0416023 Application number 20-2006-0005034

Use it by connecting to HOSE and equipment when mapping and painting.

It can be turned on/off by pushing the sleeve and the rotation function prevents the HOSE tangling.



Model	Hose attachment	Material
SHC 8A	5/16"	AL, BS
SHC 15A	1/2"	

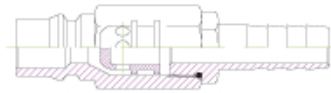


Model	Hose attachment	Screw attachment	Material
SLC 8A01	5/16"	PT 1/4"	AL, BS
SLC 8A02		PT 3/8"	
SLC 15A01	1/2"	PT 1/4"	
SLC 15A02		PT 3/8"	

※ Rotation function can be prevents tangling when working hose

## [ PURGE PLUG ]

The valve installed inside makes it safe by preventing the splashing due to internal pressure when separating the NIPPLE from the MAIN COUPLER. It can be made depending on each coupler size.



Model	Hose attachment	Material
PHB410	5/16"	SUS, STEEL
PHB400	1/2"	SUS, STEEL
PHB310	5/16"	SUS, STEEL
PHB300	1/2"	SUS, STEEL

## [ UNIVERSAL COUPLER ]

This is 360° rotating coupler that prevents the HOSE tangling and bending. Can be made by each series



Model	Screw attachment	Material
USF20C	PT 3/8"	BS, SUS
USF20X	PT 3/8"	
USF20	PT 3/8"	
USF300	PT 1/2"	
USF500	PT 1/2"	

## [ HOOD COUPLER/LINE COUPLER/ SWIVEL COUPLER ]

HOOD COUPLER / LINE COUPLER / SWIVEL COUPLER



TSM-40S



TSM-50S



TSM-351



TSM-352



PHV-N22



Y COUPLER



SWIVEL LINE COUPLER



SH300-SWIVEL

Model	Screw attachment
TSM-40S	15A*15A
TSM-50S	15A*15A
TSM-351	15A*15A
TSM-352	15A*15A
PHV-N22	N22 PLUG * 8A

## | KN COUPLER SPECIAL ITEM |

### [ STORZ COUPLER ]



This is a coupler for fire protection or water line and becomes combined as the gynander rotates. 100A is the general size and is made with aluminum. Other size can be made to order.

### [ UNINERSAL NOZZLE ]



Registration number 0282821 application number 2002-0011192  
This is a dock cleaning equipment for ship building that allows cleaning the filth on the dock bottom and wall after the ship launches more easily and safely.  
It is possible to pump the sea water into the dock and shoot out water and the direction can be adjusted to up, down, left and right.  
It can reduce the workers and direction regulation is easy which can save the working time and prevent accidents beforehand.

### [ SANDING NOZZLE ]



This product is used when painting short process by putting it in SANDING HOSE.  
The inner NOZZLE increases wear resistance by using hard metal and extend the durability of the product and protect the hard metal by using Aluminum cover.

### [ Vortex Tube KNV10 ]



This equipment emits cold air on one side and warm air on the other side in a short time by injecting compressed air without refrigerant or electricity under the material mechanical principle. The one touch coupler at both ends is the emitting place that classifies cold air and warm air which improves work efficiency and maximizes the usage by choosing the cold and warm depending on the environment

### [ Buffer Hose ]



It reduces the worker's fatigue by absorbing shock during AIR GRINDER work which improves work efficiency. There is 4", 7", SWIVEL product.

### [ AIR EJECTOR ]



This eases draining where it is hard to use pump.  
The air output is 40times the inflow rate which lets small amount of air circulate large amount of air.  
It can be custom-made depending on the size of the hose.

### [ Folding bevel ]

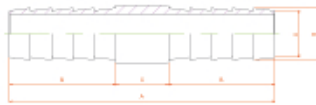


It estimates the angle when accounting and cutting block and steel plate  
The used angle is 45° ~135° and prevents rust by using stainless quality material.



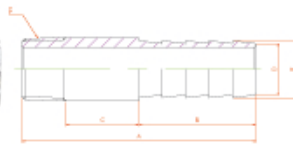
# KN COUPLER NIPPLE

## [ HOSE CONNECTOR ]



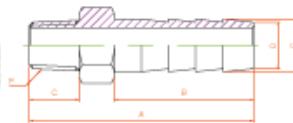
Model	Size (mm)					Material
	A	B	C	D	E	
H.C ø9 (70L)	70	25	20	5.8	8.9	STPG38 ★ SUS304
H.C ø13.5 (100L)	100	32	36	10.1	13.6	
H.C 15A	100	40	20	15.5	19.5	
H.C 20A	120	50	20	20	26	
H.C 25A	150	50	50	29	33	
SAND HOSE NIPPLE 25A	150	60	30	24.5	33	
SAND HOSE GUIDE(Heat treatment)	150	50	50	29	33	
H.C 32A	180	72	36	32	39.5	
H.C 50A	180	72	36	45	52.4	

## [ PIPE HOSE NIPPLE ]



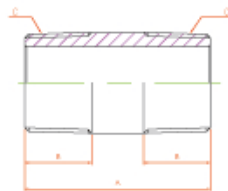
Model	Size (mm)						Material
	A	B	C	D	E	F	
P/H/N 15A	80	40	25.8	16.1	19.5	PT 1/2"	STPG38 ★ SUS304
P/H/N 20A	90	50	26	20	26	PT 3/4"	
P/H/N 25A	100	50	32	29	33	PT 1"	
P/H/N 32A	110	60	27	35	39.4	PT 1-1/4"	
P/H/N 50A	110	60	27	46	52.4	PT 2"	

## [ HEX HOSE NIPPLE ]



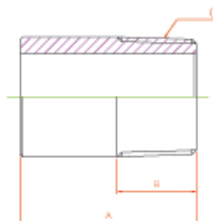
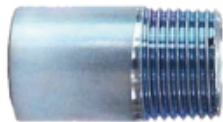
Model	Size (mm)						Material
	A	B	C	D	E	F	
H/N 1/4"ø9	58	36	13	8.8	5.3	PT 1/4"	S20C ★ SUS304
H/N 3/8"ø9	58	36	14	8.8	5.3	PT 3/8"	
H/N 1/4"ø13.5	58	36	13	13.5	9.3	PT 1/4"	
H/N 3/8"ø13.5	58	36	14	13.5	9.3	PT 3/8"	
H/N 1/2"ø13.5	64	41	15	13.5	9.3	PT 1/2"	
H/N 3/4"ø16.5	73	50	15	16.5	11	PT 3/4"	
H/N 3/4"ø20.5	90	59	19	20.5	14	PT 3/4"	

## [ DOUBLE NIPPLE ]



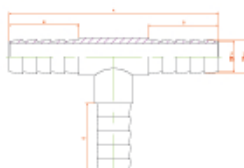
Model	Size (mm)					Material
	A	B	C	D	E	
DN 10A	50	14	22	PT 3/8"	11	STPG38 ★ SUS304
DN 15A	50	15	20	PT 1/2"	14.5	
DN 20A	50	16	18	PT 3/4"	19.4	
DN 25A	50	18	14	PT 1"	25	
DN 32A	100	20	60	PT 1-1/4"	32.9	
DN 40A	100	22	56	PT 1-1/2"	38.4	
DN 50A	100	24	52	PT 2"	49.5	

## [ SINGLE NIPPLE ]



Model	Size (mm)					Material
	A	B	C	D	E	
SN 10A	30	14	16	PT 3/8"	10	STPG38 ★ SUS304
SN 15A	35	15	20	PT 1/2"	14.5	
SN 20A	40	16	24	PT 3/4"	19.4	
SN 25A	50	18	32	PT 1"	25	
SN 32A	50	20	30	PT 1-1/4"	32.9	
SN 40A	60	22	38	PT 1-1/2"	38.4	
SN 50A	60	24	36	PT 2"	49.5	

## [ "T" HOSE CONNECTOR ]



Model	Size (mm)					Material
	A	B	C	D	E	
TC 15A	30	14	16	19.5	16.1	STPG38 ★ SUS304
TC 20A	35	15	20	26	20	
TC 25A	40	16	24	33	29	
TC 32A	50	18	32	39.4	35	
TC 50A	50	20	30	52.4	46	

## KN COUPLER HI-NIPPLE

NIPPLE is used to connect a hose pipe and tubing. Teflon work unnecessary due to special internal structure to improve the efficiency of work. And separation is easy: after working can be kept apart from the main hose to prevent accidents from occurring.



















### [ HJ- HI NIPPLE ]

		Model	Size
		HOSE NIPPLE	25A
			32A
		NUT	25A
			32A
		PTF	25A
			32A
		PFF	25A
			32A
		CAP	25A
			32A

### [ DW- HI NIPPLE ]

		Model	Size
		HOSE NIPPLE	25A
			28A
		NUT	25A
			28A
		PTF	25A
			28A
		PFF	25A
			28A
		CAP	25A
			28A

### [ HD-HI NIPPLE ]

		Model	Size
		HOSE NIPPLE	E/T
		NUT	
		PTF	
		PFF	
		CAP	
		HOSE NIPPLE	CO2
		NUT	
		PTF	
		PFF	
		CAP	
		HOSE NIPPLE	OX
		NUT	
		PTF	
		PFF	
		CAP	

# | KN COUPLER MANIFOLD |

For pipe, we use STP38 or SUS PIPE and use KN COUPLER that is not compatible with each gas and is able to mark colors.  
By making it appropriate for the site in use, we can increase the work efficiency and create a perfect product through water leak test.

## [ KN MANIFOLD Production sample ]



AIR ETH OX CO2

Model with KN COUPLER Mostly used as quay wall at site  
Field : Inner wall side Hyundai Heavy Industries



AIR OX ETH CO2

Model with KN COUPLER Mostly used as SHOP at site  
Field : Hanjin Heavy Industries & Construction Co.,Ltd., Subic dockyard



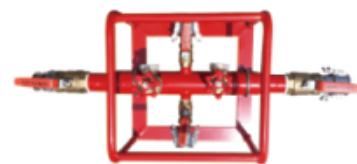
Model with KN COUPLER Mostly used as AIR LINE movement at site.  
Field : Hyundai Mipo Dockyard Co., Ltd.



Model with KN COUPLER Mostly used as AIR LINE movement at site  
Field : Daewoo Shipbuilding & Marine Engineering Co., Ltd.



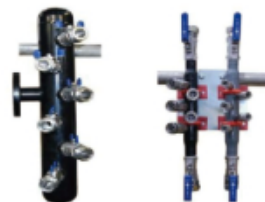
Model with KN COUPLER Mostly used as AIR LINE movement at site.  
Field : Hanjin Heavy Industries & Construction Co.,Ltd.



Model with KN COUPLER Mostly used as FIRE LINE movement at site.  
Field : Hyundai Heavy Industries



Model with KN jacket only Coupler As for respiratory system only, there is a filter inside the MANIFOLD to prevent the pollutant entering worker's body.  
Field : Hyundai Heavy Industries



Model with KN COUPLER Mostly used with hanging purpose. Being the AIR MAIN distribution it is easy to supply to AIR MANIFOLD.  
Field:Hanjin Heavy Industries & Construction Co.,Ltd.



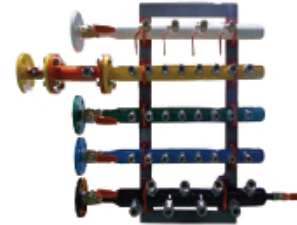
# | KN COUPLER MANIFOLD |

For pipe, we use STP38 or SUS PIPE and use KN COUPLER that is not compatible with each gas and is able to mark colors.  
By making it appropriate for the site in use, we can increase the work efficiency and create a perfect product through water leak test.

## [ KN MANIFOLD Production sample ]



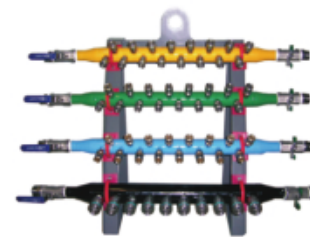
Model with KN COUPLER  
Complex MANIFOLD made for PE and portable usage  
Strong point : easy to move due to wheel and prevents fire with the top  
Field : Daewoo Shipbuilding & Marine Engineering Co., Ltd



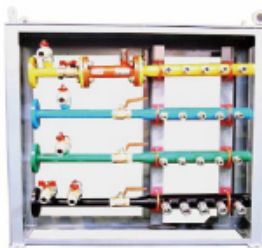
Model with KN COUPLER Mostly used for site dockside hanger AIR,  
Ease in every work being AIR, OXYGEN, GAS, CO2, pure water assembly  
Field: Hanjin Heavy Industries & Construction Co., Ltd.



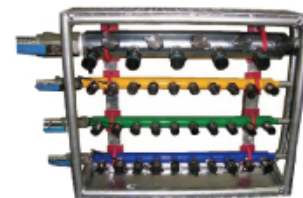
Model with KN Universal coupler  
Used for site P.E. ease in every work being AIR, OXYGEN,  
GAS, CO2 LINE assembly.  
Field: Hyundai Heavy Industries & Construction marine factory



Model with KN Universal coupler  
Used for site P.E. ease in every work being AIR, OXYGEN,  
GAS, CO2 LINE assembly.  
Field: Hyundai Heavy Industries & Construction marine factory



Model with KN COUPLER Used for site P.E. ease in every work  
being AIR, OXYGEN, GAS, CO2 ,IW LINE assembly.  
Field: Hanjin Heavy Industries & Construction Co., Ltd.



Model with KN COUPLER Used for portable site. ease in every work  
being AIR, OXYGEN, GAS, CO2, IW LINE assembly.  
Field: Hyundai Mipo Dockyard Co., Ltd.



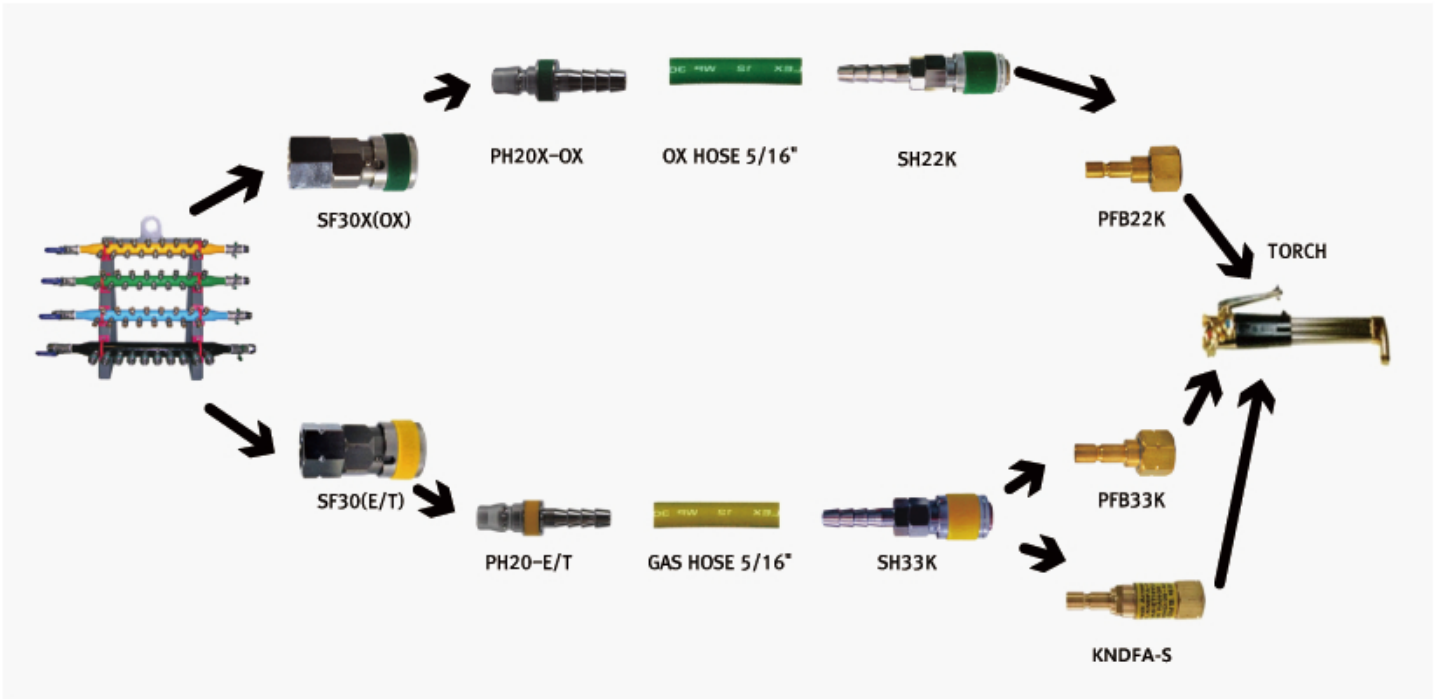
Model with KN COUPLER Used for site P.E. ease in every work  
being AIR, OXYGEN, GAS, CO2 ,IW LINE assembly.  
Field: Hyundai Heavy Industries



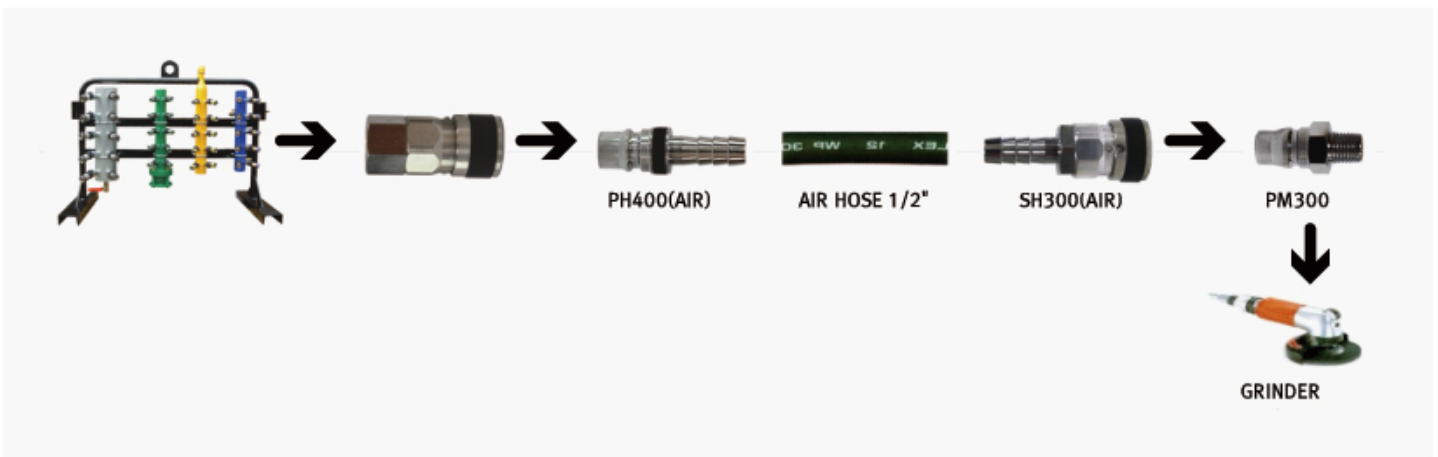
Model with KN COUPLER Used for portable site. ease in every work  
being AIR, OXYGEN, GAS, CO2, IW LINE assembly.  
Field: Hyundai Mipo Dockyard Co., Ltd.

# | KN COUPLER WORKING LINE |

## [ OXYGEN& GAS TORCH LINE ]



## [ AIR GRINDER LINE ]



## [ CO2 LINE ]

