

하이 카플러 (HI-COUPLER)



하이 카플러는 공기 및 가스배관, 공기구, 작업용 호스 접속 등에 사용되는 원터치 연결구이다.

특징

- Socket, Plug 는 나사타입, 호스타입 등 여러 종류가 있어 사용이 편리하며, 25형, 35형, 300형, 450형, 500형, 900형 등 규격이 다양하다.
- 이중타입(25형 OX와 25형 CO₂, 900형 OX와 900형 CO₂)은 서로 호환이 되지 않기 때문에 잘못된 결합으로 인한 가스 사고를 예방합니다.
- 소켓에 자동개폐 밸브를 내장하고 있으므로 호스를 분리할 때에 메인 밸브를 잠글 필요가 없습니다.
- 다양한 상품과 규격으로 용도, 사용장소에 따라 제품을 선택할 수 있다.
- 강도를 향상, 내마모, 내구성도가 대단히 우수합니다.
- 각 가스별 색상 표기가 가능하여 시각적 안전에 용이합니다.

사양

나사규격	1/4" 5/16" 3/8" 1/2" 3/4" 1" 1-1/4"		
본체재질	강철, 황동, 스테인레스		
패킹재질 및 사용온도	고무재질	사용온도범위	비고
	니트릴고무	-20°C~+80°C	표준재질
	바이톤	-20°C~+180°C	선택가능

압력

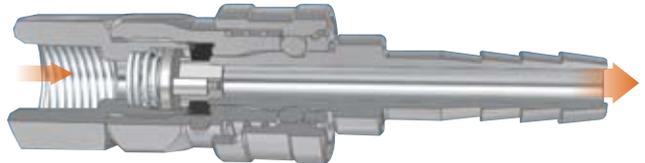
재질	강철	황동	스테인레스
최고사용압력	1.5 MPa (15 kgf/cm ²)	1.0 MPa (10 kgf/cm ²)	1.5 MPa (15 kgf/cm ²)
내압력	2.0 MPa (20 kgf/cm ²)	1.5 MPa (15 kgf/cm ²)	2.0 MPa (20 kgf/cm ²)

최대토크 N-m(kgf-cm)

나사규격		1/4"	3/8"	1/2"	3/4"	1"
토크	강철	14(143)	22(224)	60(612)	100(1020)	120(1224)
	황동	9(92)	11(112)	30(306)	50(510)	65(663)
	스테인레스	14(143)	22(224)	60(612)	100(1020)	120(1224)

이동방향

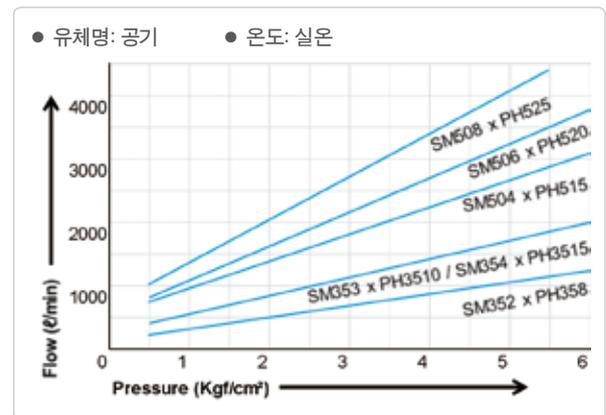
유체는 소켓측에서 플러그측으로 흐릅니다.



용도

재질	강철	황동	스테인레스
적용유체	공기, 기름	공기, 가스	공기, 가스
용도	<ul style="list-style-type: none"> • 공기공구 • 공압기기 • 각종 공기배관 • 가스배관 		

압력-유량 특성도



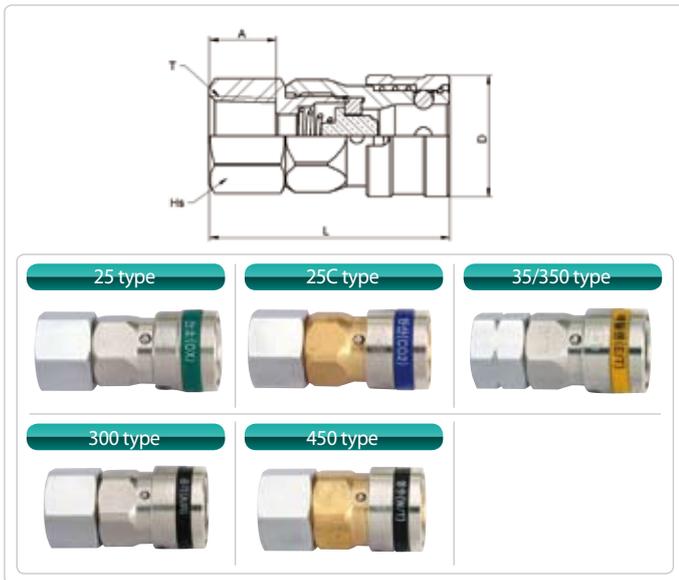
사용상 주의사항

- 유체의 진행방향은 항상 소켓에서 플러그로 흐르게 설치하십시오.
- 진동공구 등에 사용할 시에는 약 30cm 길이의 고무호스를 공구와 카플러 사이에 충격을 흡수할수 있도록 연결하여 사용해 주십시오.

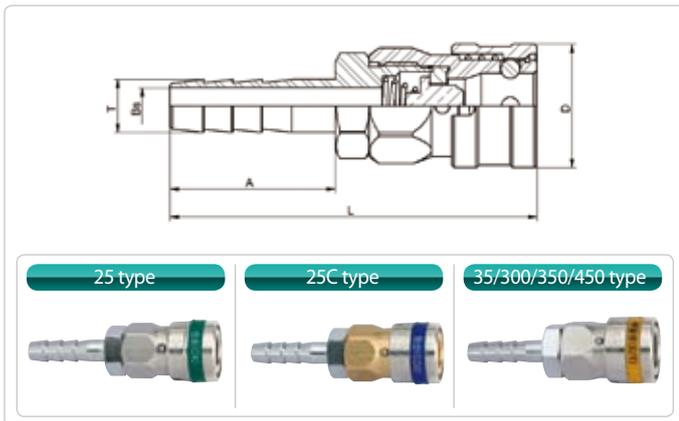
응용예



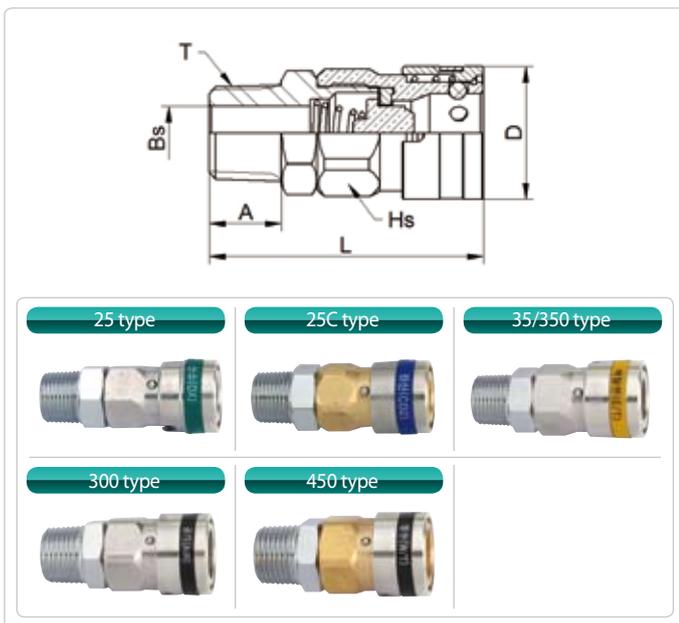
하이카플러 기호 및 치수 (HI-COUPLER DIMENSIONS)



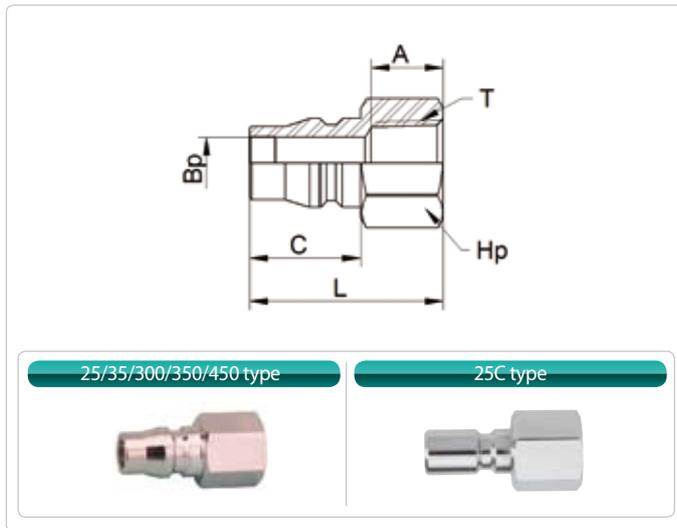
S (SOCKET)						
SF Type						
구분	모델명	치수 (mm)				
		L	D	Hs	A	T
25 type	SF-252	49.5	23.5	17	13	PT 1/4"
	SF-253	50.5	23.5	21	14	PT 3/8"
	SF-254	52.5	23.5	27	15	PT 1/2"
25C type	SF-252C	49.5	23.5	17	13	PT 1/4"
	SF-253C	50.5	23.5	21	14	PT 3/8"
	SF-254C	52.5	23.5	27	15	PT 1/2"
35 type	SF-352	49.5	25.2	19	13	PT 1/4"
	SF-353	50.5	25.2	21	14	PT 3/8"
	SF-354	52.5	25.2	27	15	PT 1/2"
300 type	SF-303	54.5	29.7	24	14	PT 3/8"
	SF-304	55.5	29.7	27	16	PT 1/2"
	SF-306	58	29.7	32	17	PT 3/4"
350 type	SF-3503	54.5	29.7	24	14	PT 3/8"
	SF-3504	55.5	29.7	27	15	PT 1/2"
	SF-3506	58	29.7	32	17	PT 3/4"
450 type	SF-453	54.5	29.7	24	14	PT 3/8"
	SF-454	55.5	29.7	27	15	PT 1/2"
	SF-456	58	29.7	32	15	PT 3/4"



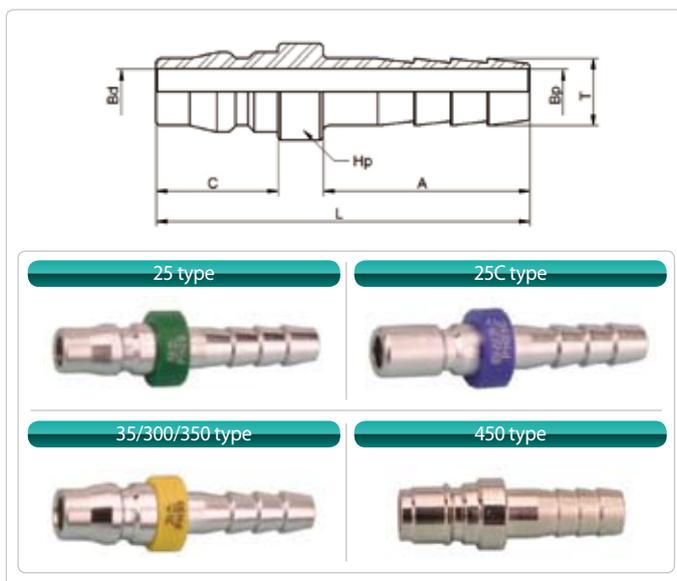
SH Type							
구분	모델명	치수 (mm)					적용
		L	D	A	Bs	T	
25 type	SH-258	71.5	23.5	30	5	8.6	8A 5/16" HOSE
25C type	SH-258C	71.5	23.5	30	5	8.6	8A 5/16" HOSE
	SH-358	71.5	25.2	30	5	8.6	8A 5/16" HOSE
35 type	SH-3510	75.5	25.2	34	7.5	10.5	10A 3/8" HOSE
	SH-3515	75.5	25.2	34	9	13.7	15A 1/2" HOSE
300 type	SH-308	74	29.7	30	5	8.6	8A 5/16" HOSE
	SH-315	78	29.7	34	10	13.7	15A 1/2" HOSE
350 type	SH-3508	74	29.7	30	5	8.6	8A 5/16" HOSE
	SH-35015	78	34	34	10	13.7	15A 1/2" HOSE
450 type	SH-4508	74	29.7	30	5	8.6	8A 5/16" HOSE
	SH-4515	78	34	34	10	13.7	15A 1/2" HOSE



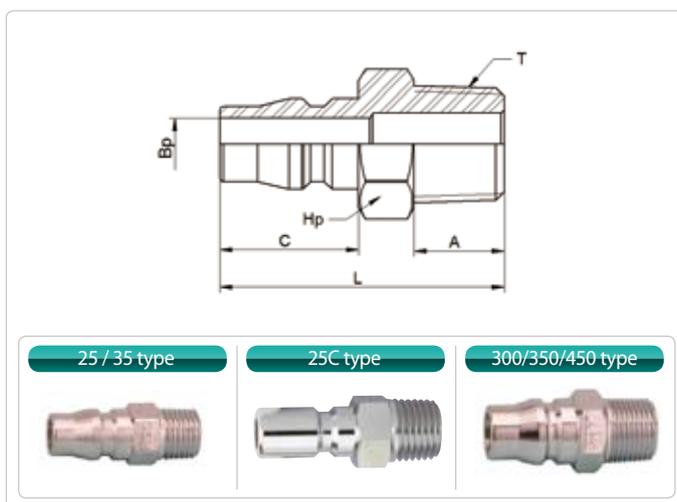
SM Type							
구분	모델명	치수 (mm)					T
		L	D	Hs	A	Bs	
25 type	SM-252	55.5	23.5	17	13	8	PT 1/4"
	SM-253	56.5	23.5	19	14	9	PT 3/8"
	SM-25(CO ₂)	53.5	23.5	17	11	5	9/16"-18 UNF S-CABLE
25C type	SM-252C	55.5	23.5	17	13	8	PT 1/4"
	SM-253C	56.5	23.5	19	14	9	PT 3/8"
	SM-25C(CO ₂)	53.5	23.5	17	11	5	9/16"-18 UNF S-CABLE
35 type	SM-352	55.5	25.2	19	13	8	PT 1/4"
	SM-353	56.5	25.2	19	14	9	PT 3/8"
	SM-35(CO ₂)	53.5	25.2	19	11	5	9/16"-18 UNF S-CABLE
300 type	SM-303	59	29.7	24	14	9	PT 3/8"
	SM-304	61	29.7	24	15	13	PT 1/2"
	SM-306	62.5	29.7	32	18	15	PT 3/4"
350 type	SM-3503	59	29.7	24	14	9	PT 3/8"
	SM-3504	61	29.7	27	15	13	PT 1/2"
	SM-3506	62.5	29.7	32	18	15	PT 3/4"
450 type	SM-453	59	29.7	24	14	9	PT 3/8"
	SM-454	61	29.7	27	15	13	PT 1/2"
	SM-456	62.5	29.7	32	18	15	PT 3/4"



P (PLUG)							
PF Type							
구분	모델명	Dimensions (mm)					
		L	Hp	C	A	Bp	T
25 type	PF-252	36	17	20	13	6.5	PT 1/4"
	PF-253	37	22	20	14	6.5	PT 3/8"
	SPF-25	35	17	20	13	6.5	9/16"-18 UNF
25C type	PF-252C	36	17	20	13	6.5	PT 1/4"
	PF-253C	37	22	20	14	6.5	PT 3/8"
	SPF-25C	35	17	20	13	6.5	9/16"-18 UNF
35 type	PF-352	36	17	20	13	7.5	PT 1/4"
	PF-353	37	22	20	14	7.5	PT 3/8"
	PF-354	38	27	20	15	7.5	PT 1/2"
300 type	SPF-35	35	17	20	13	7.5	9/16"-18 UNF
	PF-303	37.5	22	21.5	14	10.3	PT 3/8"
	PF-304	39.5	27	21.5	15	10.3	PT 1/2"
350 type	PF-3503	37.5	22	20.5	14	10.3	PT 3/8"
	PF-3504	38.5	27	20.5	15	10.3	PT 1/2"
450 type	PF-453	37.5	22	21.5	14	10.3	PT 3/8"
	PF-454	39.5	27	21.5	15	10.3	PT 1/2"

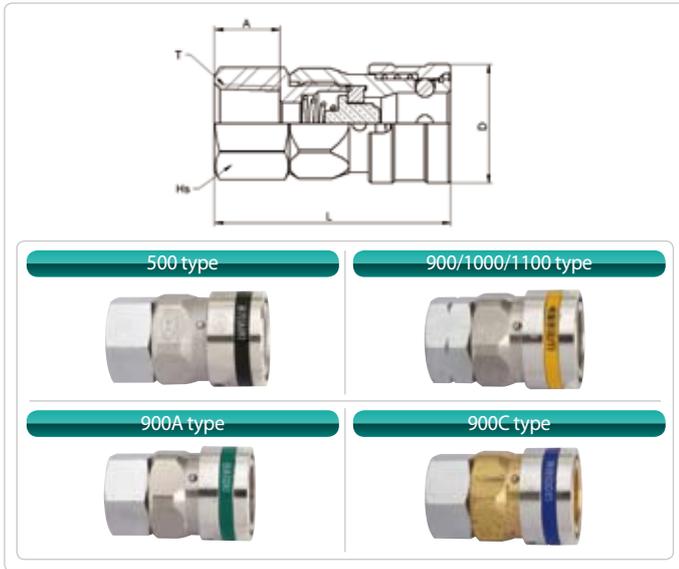


PH Type									
구분	모델명	치수 (mm)							적용
		L	Hp	C	A	T	Bp	Bd	
25 type	PH-25	56.5	16	20	30	8.6	5	6.5	8A 5/16" HOSE
25C type	PH-25C	56.5	16	20	30	8.6	5	6.5	8A 5/16" HOSE
35 type	PH-358	56.5	16	20	30	8.6	5	7.5	8A 5/16" HOSE
	PH-3510	61.5	16	20	34	10.5	7.5	7.5	10A 3/8" HOSE
300 type	PH-3515	61.5	19	20	34	13.7	9	7.5	15A 1/2" HOSE
	PH-308	58	19	21.5	30	8.6	5	10.3	8A 5/16" HOSE
	PH-310	62	19	21.5	34	10.5	5	10.3	10A 3/8" HOSE
350 type	PH-315	63.5	19	21.5	34	13.7	10	10.3	15A 1/2" HOSE
	PH-3508	58	19	20.5	30	8.6	8	10.3	8A 5/16" HOSE
	PH-35010	62	19	21.5	34	10.5	5	10.3	10A 3/8" HOSE
450 type	PH-35015	62.5	19	20.5	34	13.7	10	10.3	15A 1/2" HOSE
	PH-4508	58	19	21.5	30	8.6	8	10.3	8A 5/16" HOSE
	PH-4510	62	19	21.5	34	10.5	5	10.3	10A 3/8" HOSE
	PH-4515	63.5	19	21.5	34	13.7	10	10.3	15A 1/2" HOSE

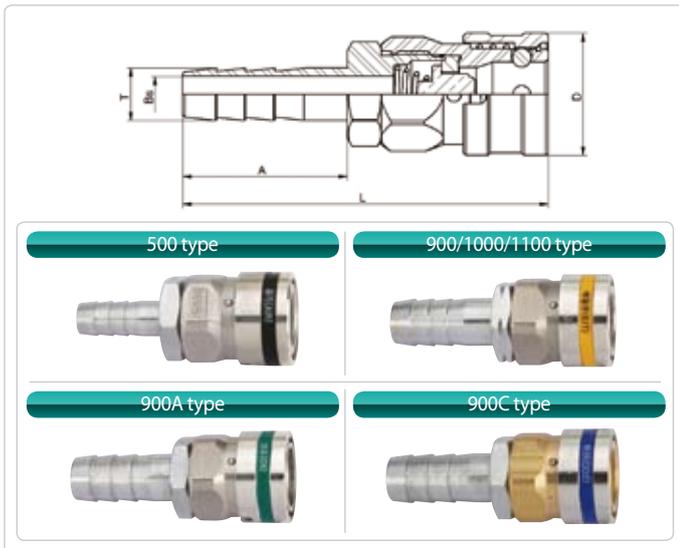


PM Type							
구분	모델명	치수 (mm)					
		L	Hp	C	A	Bp	T
25 type	PM-252	39	14	20	13	6.5	PT 1/4"
	PM-253	41	19	20	14	6.5	PT 3/8"
25C type	PM-252C	39	14	20	13	6.5	PT 1/4"
	PM-253C	41	19	20	14	6.5	PT 3/8"
35 type	PM-352	39	14	20	13	7.5	PT 1/4"
	PM-353	41	19	20	14	7.5	PT 3/8"
300 type	PM-354	44	22	20	15	7.5	PT 1/2"
	PM-302	41.5	19	21.5	13	10.3	PT 1/4"
	PM-303	42.5	19	21.5	14	10.3	PT 3/8"
350 type	PM-304	49.5	22	21.5	15	10.3	PT 1/2"
	PM-3502	41.5	19	20.5	13	10.3	PT 1/4"
	PM-3503	42.5	19	20.5	14	10.3	PT 3/8"
450 type	PM-3504	49.5	22	20.5	15	10.3	PT 1/2"
	PM-452	41.5	19	21.5	13	10.3	PT 1/4"
	PM-453	42.5	19	21.5	14	10.3	PT 3/8"
	PM-454	49.5	22	21.5	15	10.3	PT 1/2"

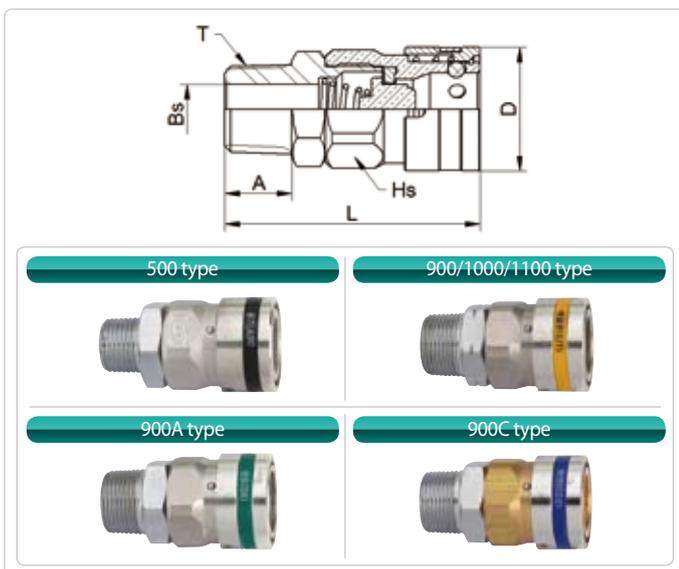
중대형 하이카플러 기호 및 치수



S (SOCKET)						
SF Type						
구분	모델명	치수 (mm)				
		L	D	Hs	A	T
500 type	SF-504	57.5	35.6	30	15	PT 1/2"
	SF-506	61	35.6	32	17	PT 3/4"
	SF-508	65	35.6	41	20	PT 1"
900 type	SF-904	58	39	32	15	PT 1/2"
	SF-906	63	39	35	17	PT 3/4"
	SF-908	65.5	39	41	20	PT 1"
900A type	SF-904A	58	39	32	15	PT 1/2"
	SF-906A	63	39	35	17	PT 3/4"
	SF-908A	65.5	39	41	20	PT 1"
900C type	SF-904C	58	39	32	15	PT 1/2"
	SF-906C	63	39	35	17	PT 3/4"
	SF-908C	65.5	39	41	20	PT 1"
1000 type	SF-1008	70	47	41	20	PT 1"
	SF-1010	73	47	50.8	23	PT 1-1/4"
1100 type	SF-1108	70	47	41	20	PT 1"
	SF-1110	73	47	50.8	23	PT 1-1/4"

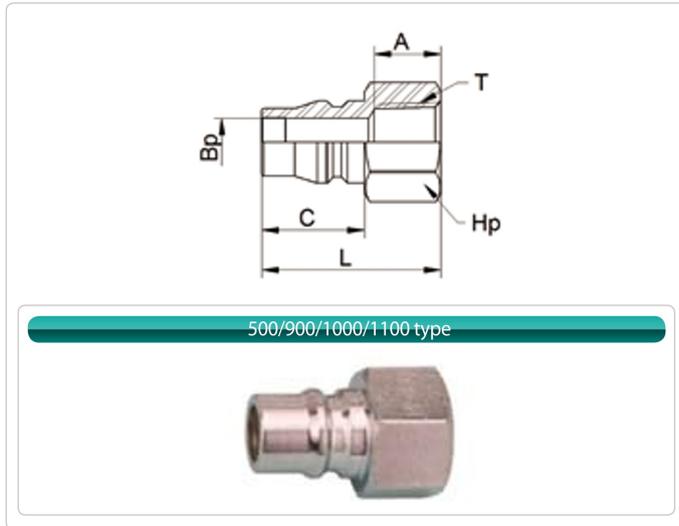


SH Type							
구분	모델명	치수 (mm)					적용
		L	D	A	Bs	T	
500 type	SH-515	82	35.6	34	9	13.7	15A 1/2" HOSE
	SH-520	93	35.6	45	15	20.5	20A 3/4" HOSE
	SH-525	103	35.6	55	17.5	25	25A 1" HOSE
900 type	SH-920	93	39	45	15	20.5	20A 3/4" HOSE
	SH-925	103	39	55	17.5	25	25A 1" HOSE
900A type	SH-920A	93	39	45	15	20.5	20A 3/4" HOSE
	SH-925A	103	39	55	17.5	25	25A 1" HOSE
900C type	SH-920C	93	39	45	15	20.5	20A 3/4" HOSE
	SH-925C	103	39	55	17.5	25	25A 1" HOSE
1000 type	SH-1025	113	47	55	17.5	25	25A 1" HOSE
	SH-1032	116	47	58	24	32	32A 1-1/4" HOSE
1100 type	SH-1125	113	47	55	17.5	25	25A 1" HOSE
	SH-1132	116	47	58	24	32	32A 1-1/4" HOSE

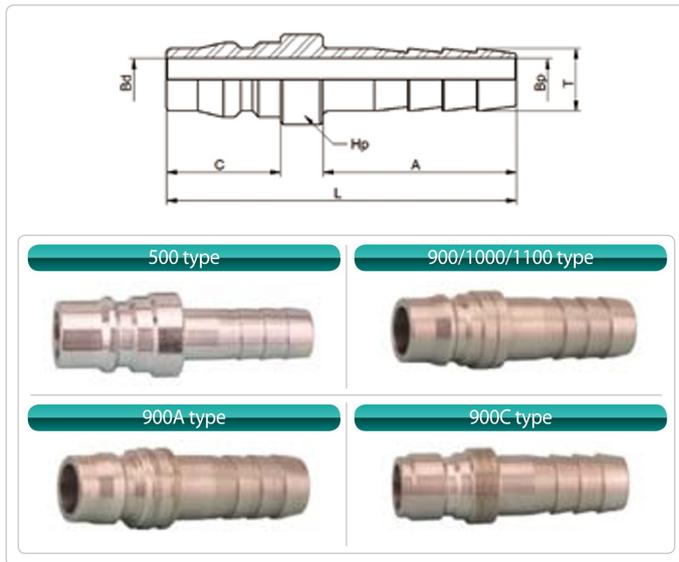


SM Type							
구분	모델명	치수 (mm)					
		L	D	Hs	A	BS	T
500 type	SM-504	65	35.6	30	15	13	PT 1/2"
	SM-506	67	35.6	32	18	15	PT 3/4"
	SM-508	70	35.6	41	20	20	PT 1"
900 type	SM-904	67	39	32	15	13	PT 1/2"
	SM-906	68	39	32	18	15	PT 3/4"
	SM-908A	70	39	38	20	20	PT 1"
900A type	SM-904A	67	39	32	15	13	PT 1/2"
	SM-906A	68	39	32	18	15	PT 3/4"
	SM-908A	70	39	38	20	20	PT 1"
900C type	SM-904C	67	39	32	15	13	PT 1/2"
	SM-906C	68	39	32	18	15	PT 3/4"
	SM-908C	70	39	38	20	20	PT 1"
1000 type	SM-1008	75	47	38	20	20	PT 1"
	SM-1010	78	47	45	23	30	PT 1-1/4"
1100 type	SM-1108	75	47	38	20	20	PT 1"
	SM-1110	78	47	45	23	30	PT 1-1/4"

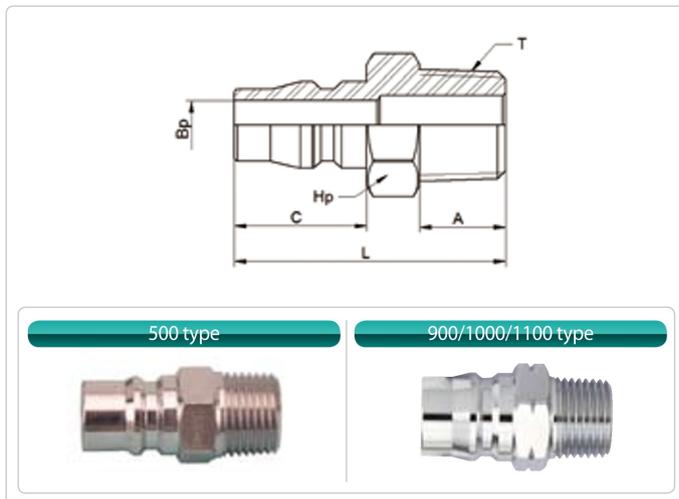
(MID TO LARGE-SIZE HI-COUPLER DIMENSIONS)



P (PLUG)							
PF Type							
구분	모델명	치수 (mm)					
		L	Hp	C	A	Bp	T
500 type	PF-504	41.5	27	23.5	14	13	PT 1/2"
	PF-506	45	35	23.5	15	13	PT 3/4"
	PF-508	49	41	23.5	20	13	PT 1"
900 type	PF-904	41.5	27	23.5	17	15.5	PT 1/2"
	PF-906	45	32	23.5	17	15.5	PT 3/4"
	PF-908	49	41	23.5	20	15.5	PT 1"
900A type	PF-904A	41.5	27	23.5	17	15.5	PT 1/2"
	PF-906A	45	32	23.5	17	15.5	PT 3/4"
	PF-908A	49	41	23.5	20	15.5	PT 1"
900C type	PF-904C	41.5	27	23.5	17	15.5	PT 1/2"
	PF-906C	45	32	23.5	17	15.5	PT 3/4"
	PF-908C	49	41	23.5	20	15.5	PT 1"
1000 type	PF-1008	61.5	41	29.5	20	18.5	PT 1"
	PF-1010	63.5	50.8	29.5	23	18.5	PT 1-1/4"
1100 type	PF-1108	61.5	41	29.5	20	18.5	PT 1"
	PF-1110	63.5	50.8	29.5	23	18.5	PT 1-1/4"



PH Type									
구분	모델명	치수 (mm)							적용
		L	Hp	C	A	T	Bp	Bd	
500 type	PH-508	50.5	22	23.5	30	8.6	9	13	8A 5/16" HOSE
	PH-510	65.5	22	23.5	34	10.5	9	13	10A 3/8" HOSE
	PH-515	65.5	22	23.5	34	13.7	9	13	15A 1/2" HOSE
	PH-520	76.5	25	23.5	45	20.5	15	13	20A 3/4" HOSE
	PH-525	86.5	28	23.5	55	25	17.5	13	25A 1" HOSE
900 type	PH-915	65.5	25	23.5	34	13.7	9	15.5	15A 1/2" HOSE
	PH-920	76.5	25	23.5	45	20.5	15	15.5	20A 3/4" HOSE
	PH-925	86.5	28	23.5	55	25	17.5	15.5	25A 1" HOSE
900A type	PH-915A	65.5	25	23.5	34	13.7	9	15.5	15A 1/2" HOSE
	PH-920A	76.5	25	23.5	45	20.5	15	15.5	20A 3/4" HOSE
	PH-925A	86.5	28	23.5	55	25	17.5	15.5	25A 1" HOSE
900C type	PH-915C	65.5	25	23.5	34	13.7	9	15.5	15A 1/2" HOSE
	PH-920C	76.5	25	23.5	45	20.5	15	15.5	20A 3/4" HOSE
	PH-925C	86.5	28	23.5	55	25	17.5	15.5	25A 1" HOSE
1000 type	PH-1025	92.5	32	29.5	55	25	17.5	18.5	25A 1" HOSE
	PH-1032	97.5	35	29.5	55	32	24	18.5	32A 1-1/4" HOSE
1100 type	PH-1125	92.5	32	29.5	55	25	17.5	18.5	25A 1" HOSE
	PH-1132	97.5	35	29.5	58	32	24	18.5	32A 1-1/4" HOSE



PM Type							
구분	모델명	치수 (mm)					
		L	Hp	C	A	Bp	T
500 type	PM-504	48.5	22	23.5	15	13	PT 1/2"
	PM-506	50.5	27	23.5	17	13	PT 3/4"
	PM-508	53.5	35	23.5	20	13	PT 1"
900 type	PM-904	48.5	24	23.5	15	15.5	PT 1/2"
	PM-906	50.5	27	23.5	17	15.5	PT 3/4"
	PM-908	53.5	35	23.5	20	15.5	PT 1"
900A type	PM-904A	48.5	24	23.5	15	15.5	PT 1/2"
	PM-906A	50.5	27	23.5	17	15.5	PT 3/4"
	PM-908A	53.5	35	23.5	20	15.5	PT 1"
900C type	PM-904C	48.5	24	23.5	15	15.5	PT 1/2"
	PM-906C	50.5	27	23.5	17	15.5	PT 3/4"
	PM-908C	53.5	35	23.5	20	15.5	PT 1"
1000 type	PM-1006	56.5	27	29.5	17	18.5	PT 3/4"
	PM-1008	59.5	35	29.5	20	18.5	PT 1"
	PM-1010	62.5	45	29.5	23	18.5	PT 1-1/4"
1100 type	PM-1106	56.5	27	29.5	17	18.5	PT 3/4"
	PM-1108	59.5	35	29.5	20	18.5	PT 1"
	PM-1110	62.5	45	29.5	23	18.5	PT 1-1/4"

양면리플러

양면리플러 / 웨이브리플러

웨이브리플러 / 양면리플러

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양면리플러 / 웨이브리플러

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