01.
MOULD COOLING

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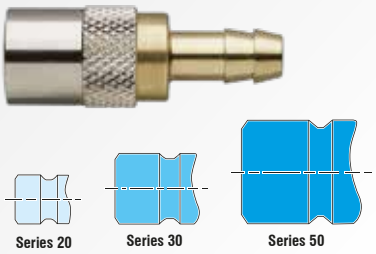
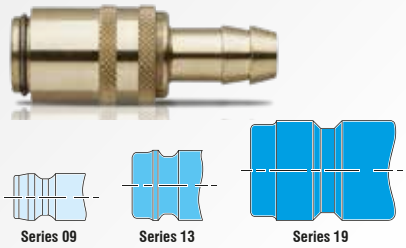
01.1
COUPLERS

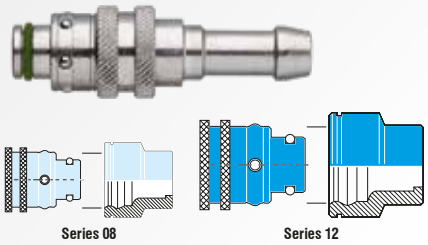
10
01.1.1 INTERNATIONAL SERIES 20 / 30 / 50



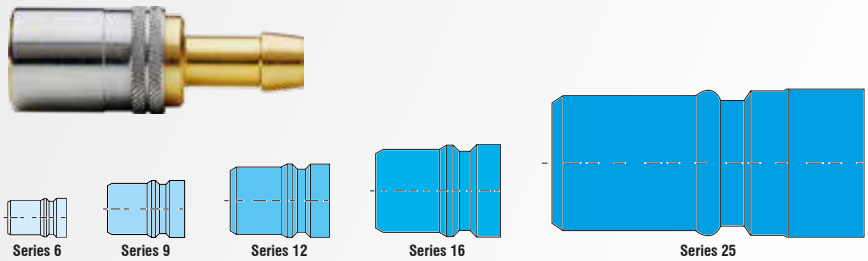
18
01.1.2 EUROPEAN SERIES 09 / 13 / 19



30
01.1.3 FRENCH SERIES 08 / 12



36
01.1.4 FRENCH MATIC SERIES 6 / 9 / 12 / 16 / 25



41
01.1.5 MULTI COUPLINGS SERIES

EXPLANATION OF SYMBOLS

- Water
- Oil
- Temperature max.
- High Temperatures up to 180°C
- Only in combination with Push-Lock hose and Push-Lock hosetail
- Safelock
- Optional colour clips see page 24

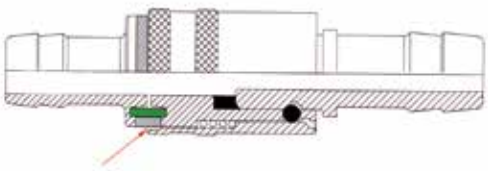
SAFE-LOCK™

The products marked with this system are fitted with the SAFE-LOCK™ technology developed by our designers.

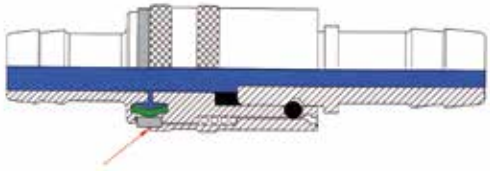
Using a special mechanism, the SAFELOCK™ technology reliably prevents accidental uncoupling of the systems under pressure. As the normally contiguous temperatures of the media used are between 90°C and 170°C, accidents of this nature can result in serious burns. The only alternatives to the SAFE-LOCK™ systems are double shut-off couplings, with which, however, the complex valve technology has a strong negative impact on the flow values.

SAFE-LOCK™ Coupling Systems

- Reliably eliminate the risk of serious burns
- Cannot be disconnected under pressure
- Are available both for our European and International ranges
- Are 100 % compatible with our standard systems and are therefore also easy to retrofit at a later date
- Are resistant to oil and water up to 140°C (Peak 160°C) HT-Series up to 180°C
- Are compliant with EU safety directive 97/23/EF



unlocked



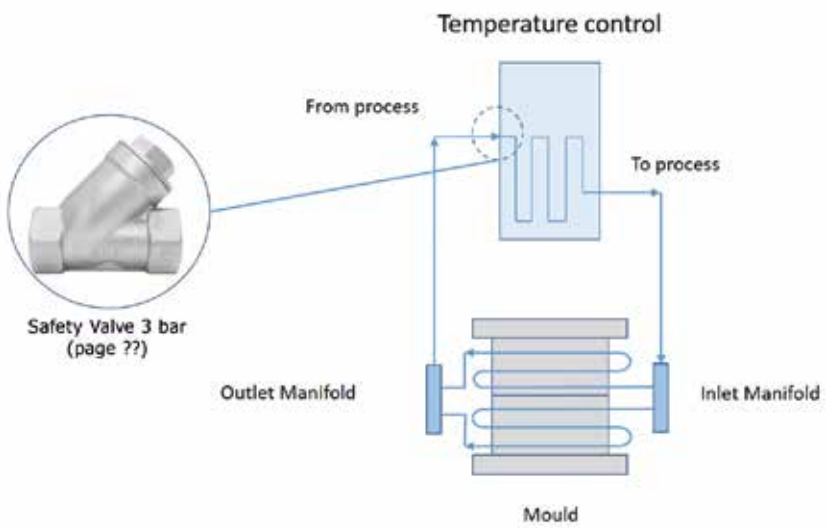
locked

Instructions for non-pressurized cooling systems:

Safe-lock is activated by pressure of min. 3 bar - therefore you must ensure that your cooling circuit is pressurized at all time.

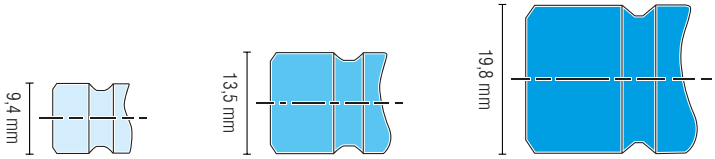
Low temperature (0-90°C) temperature controls typically operates with open tank (no pressure) and the pump cannot ensure pressure throughout the entire system.

To pressurize these systems, it's required to install a safety valve on the return inlet on the temperature control unit - this will ensure enough back pressure to activate the Safe-Lock safety couplings. See the illustration for details:



Nominal Diameter

20 / 30 / 50



Series 20 Series 30 Series 50

Illustration scale 1:1

TECHNICAL DESCRIPTION

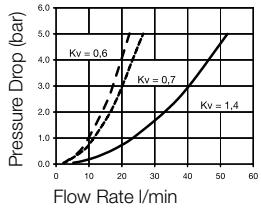
Coupling series especially developed for connecting coolant lines on injection moulds.

Fully interchangeable with other brands with the same plug profiles.

All dimensions and tolerances according to original specs.

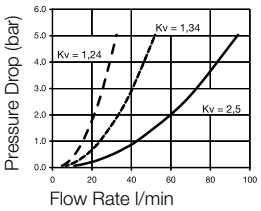
CHART

Serie 20



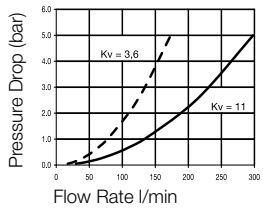
-------- Double valve
- - - - - Single valve
_____ Non valved

Serie 30



-------- Double valve
- - - - - Single valve
_____ Non valved

Serie 50



-------- Double valve
- - - - - Single valve
_____ Non valved

MATERIAL

Coupling	
Back Body	Brass
Valve Body	Brass
Sleeve	Brass (without Valve)
Sleeve	Brass, Nickel Plated (with Valve)
Valve	Brass
Locking Balls	AISI 420
Spring	AISI 301
Seal	FKM

Plug	
Plug Profile	Brass
Back Body	Brass
Valve	Brass
Spring	AISI 301
Seal	FKM

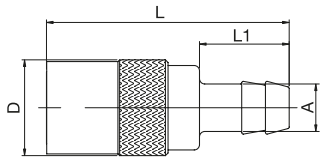
WORKING PRESSURE

15 bar, maximum static working pressure with safety factor of 4 to 1.

WORKING TEMPERATURE

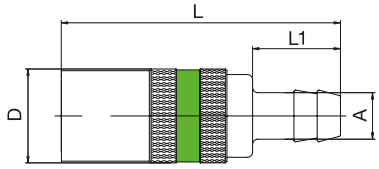
Water -15°C up to +140°C
Oil -15°C up to +180°C

STRAIGHT COUPLING



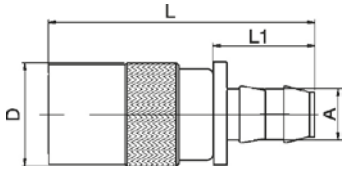
DN	Series			A	D	L	L1	
6	20	20K6V	20K6	6	18	46	17	10
		20K10V	20K10	10	18	51	22	10
		20K13V	20K13	13	18	51	22	10
9	30	30K10V	30K10	13	24	64	22	10
		30K13V	30K13	13	24	66,5	25	10
16	50	50K19V	50K19	19	32	89	32	5

SAFE-LOCK™ SAFETY COUPLING



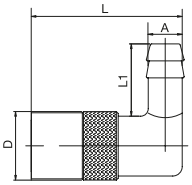
DN	Series			A	D	L	L1	
6	20	20K6V-S	20K6-S	6	18	54	17	10
		20K10V-S	20K10-S	10	18	59	22	10
9	30	30K10V-S	30K10-S	10	24	73	22	10
		30K13V-S	30K13-S	13	24	76	25	10

PUSH LOCK - STRAIGHT COUPLING

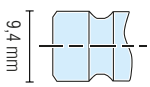


DN	Series			A	D	L	L1	
6	20	20K10V-PL	20K10-PL	10	18	58	28	10
9	30	30K10V-PL	30K10-PL	10	24	64,5	28	10
		30K13V-PL	30K13-PL	13	24	64,5	28	10

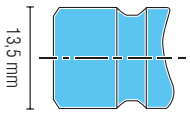
90° COUPLING



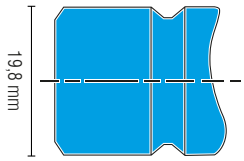
DN	Series			A	D	L	L1	
6	20	20K6V/90	20K6/90	6	18	40	19	10
		20K10V/90	20K10/90	10	18	40	22	10
9	30	30K10/90V	30K10/90	10	24	56	22	10
		30K13/90V	30K13/90	13	24	56	28,5	10
16	50	50K19V/90	50K19/90	19	32	77	32	5



Series 20

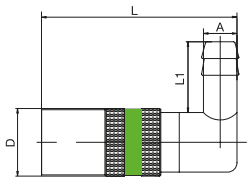


Series 30



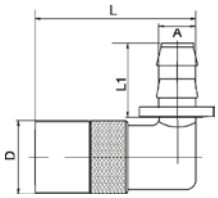
Series 50

SAFE-LOCK™ SAFETY COUPLING



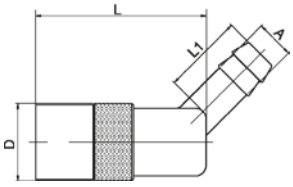
DN	Series			A	D	L	L1	
6	20	20K10V/90-S	20K10/90-S	10	18	52,5	22	10
9	30	30K10V/90-S	30K10/90-S	10	24	68,5	22	10
		30K13V/90-S	30K13/90-S	13	24	68,5	28,5	10

PUSH LOCK - 90°COUPLING



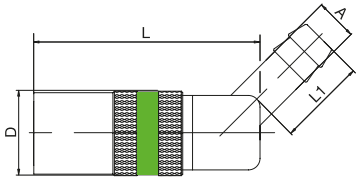
DN	Series			A	D	L	L1	
6	20	20K10V-90-PL	20K10-90-PL	10	18	40,5	28	10
9	30	30K10V-90-PL	30K10-90-PL	10	23	61,5	28	10
		30K13V-90-PL	30K13-90-PL	13	23	61,5	28	10

45° COUPLING



DN	Series			A	D	L	L1	
6	20	20K6V/45	20K6/45	6	18	55,5	19	10
		20K10V/45	20K10/45	10	18	55,5	22	10
9	30	30K10/45V	30K10/45	10	24	71	22	10
		30K13/45V	30K13/45	13	24	75	25	10
16	50	50K19/45V	50K19/45	19	32	77	30	5

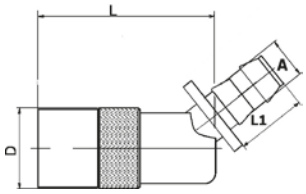
SAFE-LOCK™ SAFETY COUPLING



DN	Series			A	D	L	L1	
6	20	20K10V/45-S	20K10/45-S	10	18	51,5	22	10
9	30	30K10V/45-S	30K10/45-S	10	24	65,5	22	10
		30K13V/45-S	30K13/45-S	13	24	65,5	25	10

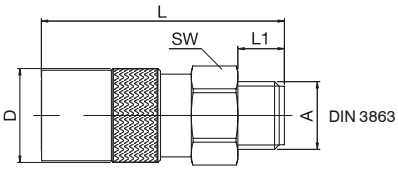
See explanation of symbols on page 8

PUSH LOCK - 45° COUPLING



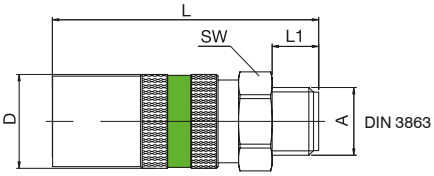
DN	Series			A	D	L	L1	
6	20	20K10V-45-PL	20K10-45-PL	10	18	40,5	28	10
9	30	30K10V-45-PL	30K10-45-PL	10	23	61,5	28	10
		30K13V-45-PL	30K13-45-PL	13	23	61,5	28	10

MALE THREADED COUPLING

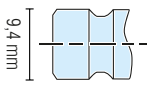


DN	Series			A	D	L	L1	SW	
6	20	20KUR1/4V	20KUR1/4	G1/4	18	47	9	17	10
		20KUR3/8V	20KUR3/8	G3/8	18	47	9	19	10
9	30	30KUR1/4V	30KUR1/4	G1/4	24	56,5	9	22	10
		30KUR3/8V	30KUR3/8	G3/8	24	56,5	9	22	10
		30KUR1/2V	30KUR1/2	G1/2	24	59,5	12	22	10
16	50	50KUR1/2V	50KUR1/2	G1/2	32	73	12	30	10
		50KUR3/4V	50KUR3/4	G3/4	32	77	16	30	5

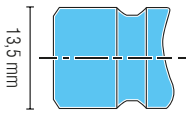
SAFE-LOCK™ SAFETY COUPLING



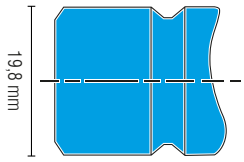
DN	Series			A	D	L	L1	SW	
6	20	20KUR1/4V-S	20KUR1/4-S	G1/4	18	51,5	9	17	10
		20KUR3/8V-S	20KUR3/8-S	G3/8	18	51,5	9	19	10
9	30	30KUR1/4V-S	30KUR1/4-S	G1/4	24	67	9	22	10
		30KUR3/8V-S	30KUR3/8-S	G3/8	24	67	9	22	10
		30KUR1/2V-S	30KUR1/2-S	G1/2	24	70	12	22	10



Series 20

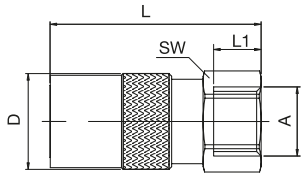


Series 30



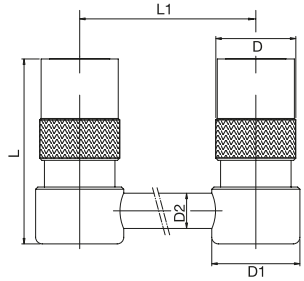
Series 50

FEMALE THREADED COUPLING



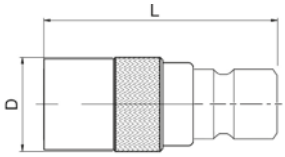
DN	Series			A	D	L	L1	SW	
6	20	20KIR1/8V	20KIR1/8	G1/8	18	40	10	17	10
		20KIR1/4V	20KIR1/4	G1/4	18	40	10	17	10
		20KIR3/8V	20KIR3/8	G3/8	18	44	10	19	10
9	30	30KIR1/4V	30KIR1/4	G1/4	24	51,5	10	21	10
		30KIR3/8V	30KIR3/8	G3/8	24	51,5	10	21	10

BANJO BRIDGE



DN	Series		A	D	L	D1	D2	L1	
6	20	20K125		18	42	20	8	125	1
		20K250		18	42	20	8	250	1
		20K500		18	42	20	8	500	1
9	30	30K125		24	58	26	10	125	1
		30K250		24	58	26	10	250	1
		30K500		24	58	26	10	500	1
16	50	50K160		32	78	36	14	160	1
		50K315		32	78	36	14	315	1
		50K500		32	78	36	14	500	1

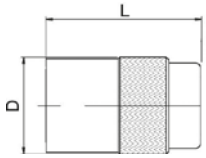
COUPLING WITH PLUG



DN	Series			Plug Series	D	L	
6	20	20K30NV	20K30N	30	18	50,5	10
9	30	30K20NV	30K20N	20	24	48	10

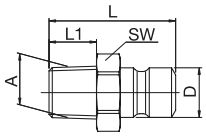
See explanation of symbols on page 8

BLIND COUPLING



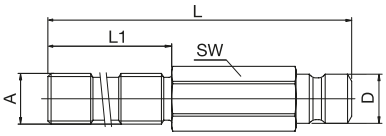
DN	Series	⟷	D	L	
6	20	20K	18	30	10
9	30	30K	24	37	10

MALE PLUG

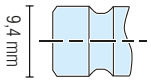


DN	Series		⟷	A	D	L	L1	SW	
6			20NM10	M10x1	9,4	23	8	13	25
			20NR1/8	R1/8	9,4	24	9	13	25
	20		20NR1/4	R1/4	9,4	29	12	16	25
		20NR1/4V		R1/4	9,4	29	14	16	25
			20NR3/8	R3/8	9,4	30	12	19	25
9			30NR1/8	R1/8	13,5	29,5	20,5	14	25
		30NR1/4V	30NR1/4	R1/4	13,5	34	12	16	25
	30	30NR3/8V	30NR3/8	R3/8	13,5	34	12	19	25
			30NR1/2	R1/2	13,5	39	17	24	10
16	50		50NR1/2	R1/2	19,8	44	17	22	10
			50NR3/4	R3/4	19,8	45	19	29	10

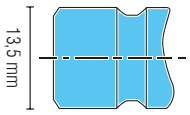
ADJUSTABLE PLUG



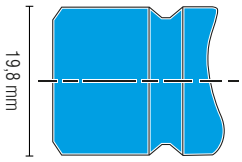
DN	Series	⟷	A	D	L	L1	SW	
6	20	20NR1/8/100	G1/8	9,4	100	60	11	10
		20NR1/4/100	G1/4	9,4	100	60	14	10
9	30	30NR1/4/100	G1/4	13,5	100	60	14	10
		30NR3/8/100	G3/8	13,5	100	60	17	10



Series 20

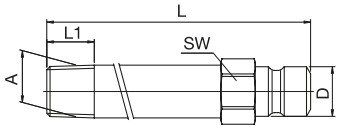


Series 30



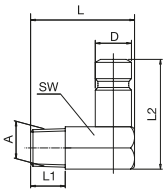
Series 50

EXTENDED PLUG



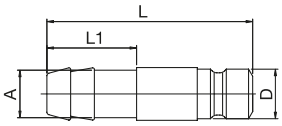
DN	Series	↔	A	D	L	L1	SW	
6	20	20N50	R1/8	9,4	50	9	11	10
		20N50-1/4	R1/4	9,4	50	12	14	10
		20N100	R1/8	9,4	100	9	11	10
		20N100-1/4	R1/4	9,4	100	12	14	10
		20N150	R1/8	9,4	150	9	11	10
		20N150-1/4	R1/4	9,4	150	12	14	10
		20N200	R1/8	9,4	200	9	11	10
		20N200-1/4	R1/4	9,4	200	12	14	10
		20N250	R1/8	9,4	250	9	11	10
		20N250-1/4	R1/4	9,4	250	12	14	10
9	30	30N50	R1/4	13,5	50	12	15	10
		30N100	R1/4	13,5	100	12	15	10
		30N150	R1/4	13,5	150	12	15	10
		30N200	R1/4	13,5	200	12	15	10
		30N250	R1/4	13,5	250	12	15	10

90° MALE PLUG



DN	Series	↔	A	D	L	L1	L2	SW	
6	20	20NM10/90	M10x1	9,4	27	9	28,5	11	25
		20NR1/8/90	R1/8	9,4	27	9	28,5	11	25
		20NR1/4/90	R1/4	9,4	27	9	28,5	11	25
9	30	30NR1/4/90	R1/4	13,5	34	9	32	15	25
		30NR3/8/90	R3/8	13,5	34	9	32	15	25

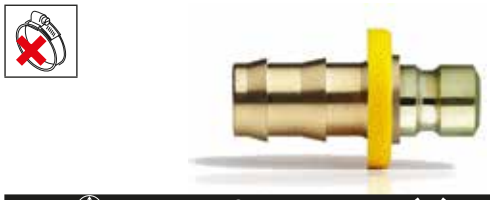
HOSETAIL PLUG

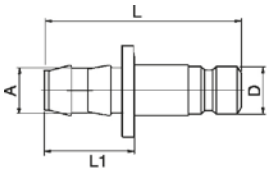


DN	Series	↔	A	D	L	L1	
6	20	20N10	10	9,4	39	22	25
		20N13	13	9,4	39	22	25
9	30	30N10	13	13,4	41	25	25
		13N13	13	13,4	41	25	25
16	50	19N19	13	13,4	41	25	10

See explanation of symbols on page 8

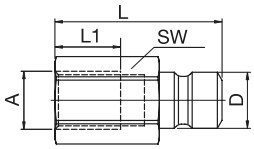
PUSH LOCK - HOSETAIL PLUG





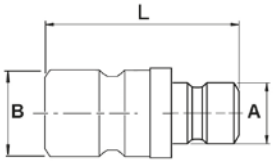
DN	Series	⟷	A	D	L	L1	
6	20	20N10-PL	10	9,4	44	28	10
9	30	30N10-PL	10	13,5	44	28	10
		30N13-PL	13	13,5	44	28	10

FEMALE PLUG



DN	Series	⟷	A	D	L	L1	SW	
6	20	20NR1/8I	G1/8	9,4	28	11	13	25
		20NR1/4I	G1/4	9,4	32	13	16	25
		20NR3/8I	G3/8	9,4	34	13	19	25
9	30	30NR1/4I	G1/4	13,5	37	13	16	25
		30NR3/8I	G3/8	13,5	39	13	19	25

DOUBLE PLUG



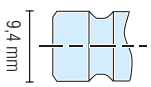
DN		A Series	B Series	L	
6	2020DB	20	20	31	10
	2030DB		30	31	10
9	3030DB	30		34	10

REPLACEMENT SEALS FKM

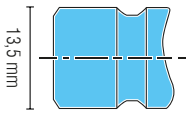
+140 °C

+200 °C

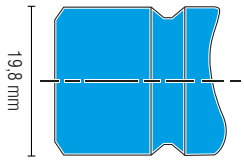
Part No.	Series	S	
200V	20	6	10
300V	30	9	10
500V	50	16	10



Series 20



Series 30



Series 50

Nominal Diameter

09 / 13 / 19

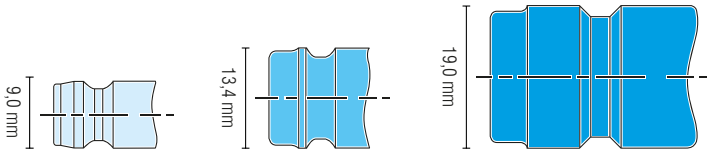


Illustration scale 1:1

TECHNICAL DESCRIPTION

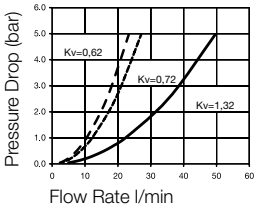
Coupling series especially developed for connecting coolant lines on injection moulds.

Fully interchangeable with other brands with the same plug profiles.

All dimensions and tolerances according to original specs.

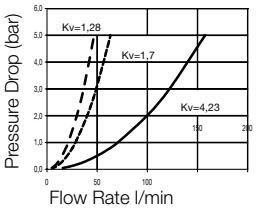
CHART

Serie 09



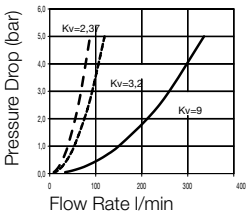
-------- Double valve
- - - - - Single valve
_____ Non valved

Serie 13



-------- Double valve
- - - - - Single valve
_____ Non valved

Serie 20



-------- Double valve
- - - - - Single valve
_____ Non valved

MATERIAL

Coupling

Back Body	Brass
Valve Body	Brass
Sleeve	Brass (with valve)
Sleeve	Brass, Nickel Plated (without valve)
Valve	Brass
Locking balls	AISI 420
Spring	AISI 301
Seal	FKM

Plug

Plug Profile	Brass
Back Body	Brass
Valve	Brass
Spring	AISI 301
Seal	FKM

WORKING PRESSURE

15 bar, maximum static working pressure with safety factor of 4 to 1.

WORKING TEMPERATURE

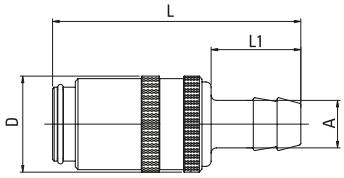
Standard Couplers

Water -15°C up to +140°C
Oil -15°C up to +180°C

HT-Series

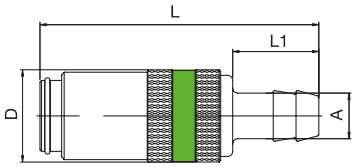
Water -15°C up to +180°C
Oil -15°C up to +180°C

STRAIGHT COUPLING



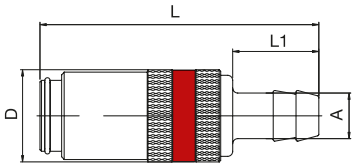
DN	Series			A	D	L	L1	
6	09	09K10V	09K10	10	18	52	22	10
		09K13V	09K13	13	18	52	22	10
9	13	13K10V	13K10	10	23	61,5	25	10
		13K13V	13K13	13	23	61,5	25	10
13	19	19K19V	19K19	19	32	90	32	5

SAFE-LOCK™ SAFETY COUPLING



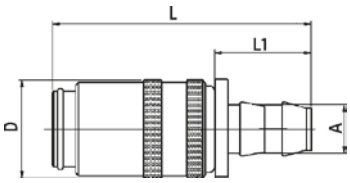
DN	Series			A	D	L	L1	
6	09	09K10V-S	09K10-S	10	18	60	22	10
9	13	13K13V-S	13K13-S	13	24	71	25	10

SAFE-LOCK™ SAFETY COUPLING

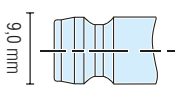


DN	Series			A	D	L	L1	
6	09	09K10V-S-HT	09K10-S-HT	10	18	60	22	10
9	13	13K13V-S-HT	13K13-S-HT	13	24	71	25	10

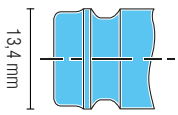
PUSH LOCK - STRAIGHT COUPLING



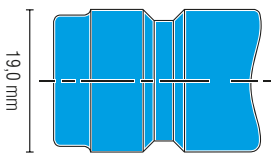
DN	Series			A	D	L	L1	
6	09	09K10V-PL	09K10-PL	10	18	58,5	28	10
9	13	13K13V-PL	13K13-PL	13	23	64,5	28	10



Series 09

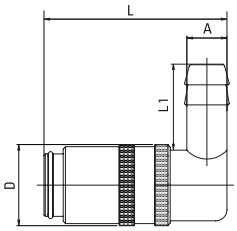


Series 13



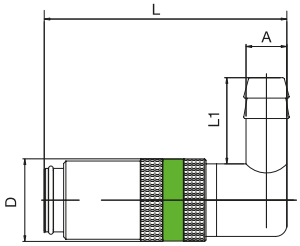
Series 19

90° COUPLING



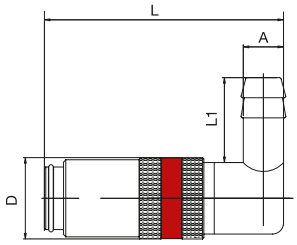
DN	Series	OW	↔	A	D	L	L1	
6	09	09K10V-90	09K10-90	10	18	41	22	10
9	13	13K10V-90	13K10-90	10	23	51	28,5	10
		13K13V-90	13K13-90	13	23	51	28,5	10
13	19	19K19V-90	19K19-90	19	32	78	32	5

SAFE-LOCK™ SAFETY COUPLING



DN	Series	OW	↔	A	D	L	L1	
6	09	09K10V/90-S	09K10/90-S	10	18	53,5	22	10
9	13	13K13V/90-S	13K13/90-S	13	24	63,5	28,5	10

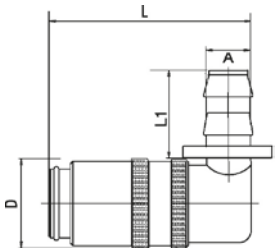
SAFE-LOCK™ SAFETY COUPLING



DN	Series	OW	↔	A	D	L	L1	
6	09	09K10V/90-S-HT	09K10/90-S-HT	10	18	53,5	22	10
9	13	13K13V/90-S-HT	13K13/90-S-HT	13	24	63,5	28,5	10

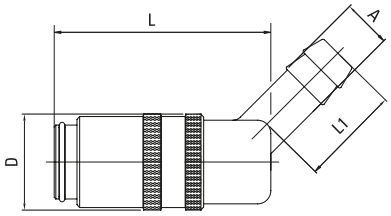
See explanation of symbols on page 8

PUSH LOCK - 90° COUPLING



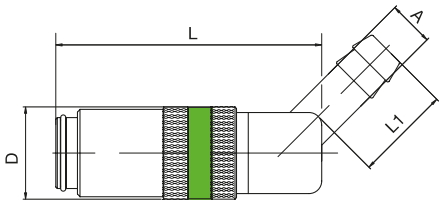
DN	Series			A	D	L	L1	
6	09	09K10V-90-PL	09K10-90-PL	10	18	42,5	28	10
9	13	13K13V-90-PL	13K13-90-PL	13	23	51	28	10

45° COUPLING

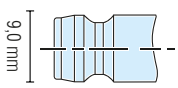


DN	Series			A	D	L	L1	
6	09	09K10V-45	09K10-45	10	18	41	22	10
9	13	13K10V-45	13K10-45	13	23	51	28,5	10
		13K13V-45	13K13-45	13	23	51	28,5	10
13	19	19K19V-45	19K19-45	19	32	78	32	5

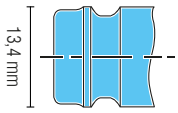
SAFE-LOCK™ SAFETY COUPLING



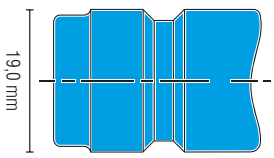
DN	Series			A	D	L	L1	
6	09	09K10V/45-S	09K10/45-S	10	18	60	22	10
9	13	13K13V/45-S	13K13/45-S	13	24	60,5	25	10



Series 09

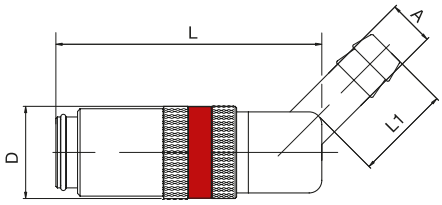


Series 13



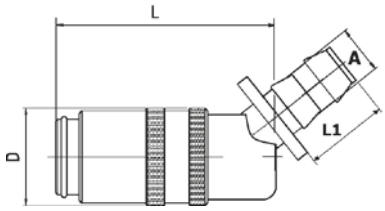
Series 19

SAFE-LOCK™ SAFETY COUPLING



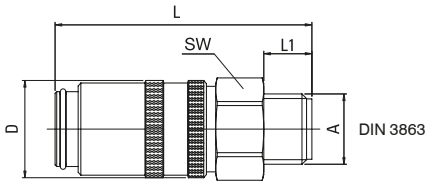
DN	Series			A	D	L	L1	
6	09	09K10V/45-S-HT	09K10/45-S-HT	10	18	60	22	10
9	13	13K13V/45-S-HT	13K13/45-S-HT	13	24	60,5	25	10

PUSH LOCK - 45° COUPLING



DN	Series			A	D	L	L1	
6	09	09K10V-45-PL	09K10-45-PL	10	18	42,5	28	10
9	13	13K13V-45-PL	13K13-45-PL	13	23	51	28	10

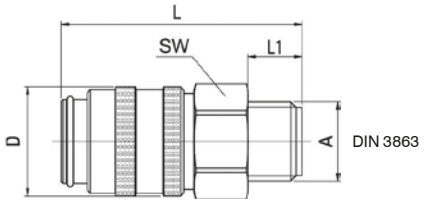
MALE THREADED COUPLING



DN	Series			A	D	L	L1	SW	
6	09	09KUM14V	09KUM14	M14x1,5	18	48	9	17	10
		09KUR1/4V	09KUR1/4	G1/4	18	48	9	17	10
		09KUR3/8V	09KUR3/8	G3/8	18	48	9	19	10
9	13	13KUM16V	13KUM16	M16x1,5	23	51,5	9	22	10
		13KUR1/4V	13KUR1/4	G1/4	23	51,5	9	22	10
		13KUR3/8V	13KUR3/8	G3/8	23	51,5	9	22	10
		13KUR1/2V	13KUR1/2	G1/2	23	54,5	12	22	10
13	19	19KUR1/2V	19KUR1/2	G1/2	32	74	12	30	5
		19KUR3/4V	19KUR3/4	G3/4	32	78	16	30	5

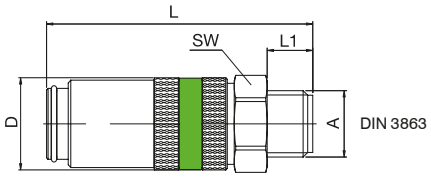
See explanation of symbols on page 8

MALE THREADED COUPLING, SHORT VERSION



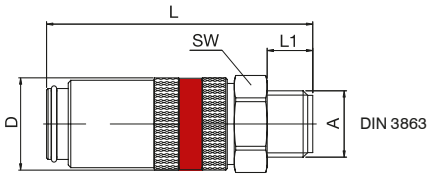
DN	Series		A	D	L	L1	SW	VPE	SW	
6	09	09KSR1/4	G 1/4	18	38	9	17	10	17	10
9	13	13KSR3/8	G 3/8	24	38	9	22	10	22	10

SAFE-LOCK™ SAFETY COUPLING

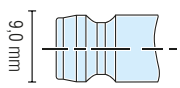


DN	Series			A	D	L	L1	SW	
6	09	09KUM14V-S	09KUM14-S	M14x1,5	18	52,5	9	17	10
		09KUR1/4V-S	09KUR1/4-S	G1/4	18	52,5	9	17	10
		09KUR3/8V-S	09KUR3/8-S	G3/8	18	52,5	9	19	10
9	13	13KUM16V-S	13KUM16-S	M16x1,5	24	62	9	22	10
		13KUR1/4V-S	13KUR1/4-S	G1/4	24	62	9	22	10
		13KUR3/8V-S	13KUR3/8-S	G3/8	24	62	9	22	10
		13KUR1/2V-S	13KUR1/2-S	G1/2	24	65	12	22	10

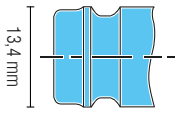
SAFE-LOCK™ SAFETY COUPLING



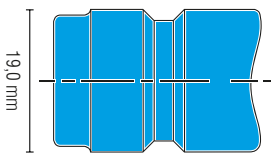
DN	Series			A	D	L	L1	SW	
6	09	09KUM14V-S-HT	09KUM14-S-HT	M14x1,5	18	52,5	9	17	10
		09KUR1/4V-S-HT	09KUR1/4-S-HT	G1/4	18	52,5	9	17	10
		09KUR3/8V-S-HT	09KUR3/8-S-HT	G3/8	18	52,5	9	19	10
9	13	13KUM16V-S-HT	13KUM16-S-HT	M16x1,5	24	62	9	22	10
		13KUR1/4V-S-HT	13KUR1/4-S-HT	G1/4	24	62	9	22	10
		13KUR3/8V-S-HT	13KUR3/8-S-HT	G3/8	24	62	9	22	10
		13KUR1/2V-S-HT	13KUR1/2-S-HT	G1/2	24	65	12	22	10



Series 09

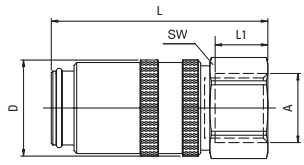


Series 13



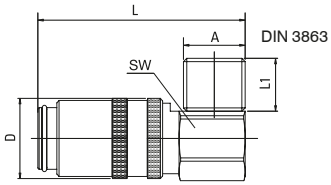
Series 19

FEMALE THREADED COUPLING



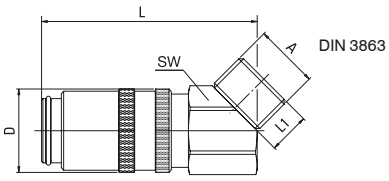
DN	Series			A	D	L	L1	SW	
6	09	09KIR1/4V	09KIR1/4	G1/4	18	41	10	17	10
		09KIR3/8V	09KIR3/8	G3/8	18	45	10	19	10
9	13	13KIR1/4V	13KIR1/4	G1/4	23	46,5	10	21	10
		13KIR3/8V	13KIR3/8	G3/8	23	46,5	10	21	10
		13KIM16V	13KIM16	M16x1,5	23	46,5	10	21	10

90° MALE THREADED COUPLING



DN	Series			A	D	L	L1	SW	
6	09	09KM14/90V	09KM14/90	M14x1,5	18	47	12	17	10
		09KR1/4/90V	09KR1/4/90	G1/4	18	47	12	17	10
9	13	13KUM16/90V	13KM16/90	M16x1,5	23	53,5	12	22	10

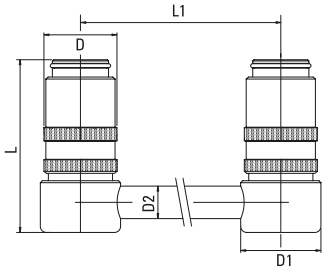
45° MALE THREADED COUPLING



DN	Series			A	D	L	L1	SW	
6	09	09KM14/45V	09KM14/45	M14x1,5	18	47	9	17	10
		09KR1/4/45V	09KR1/4/45	G1/4	18	47	9	17	10
9	13	13KUM16/45V	13KUM16/45	M16x1,5	23	53,5	9	22	10

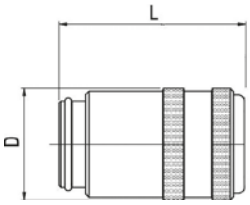
See explanation of symbols on page 8

BANJO BRIDGE



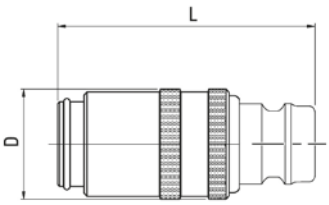
DN	Series	↔	D	L	D1	D2	L1	
6	09	09K125	18	43	20	8	125	1
		09K250	18	43	20	8	250	1
		09K500	18	43	20	8	500	1
9	13	13K125	23	53	26	10	125	1
		13K250	23	53	26	10	250	1
		13K500	23	53	26	10	500	1
13	19	19K160	32	80	36	14	160	1
		19K315	32	80	36	14	315	1
		19K500	32	80	36	14	500	1

BLIND COUPLING

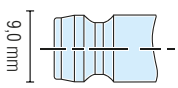


DN	Series	↔	D	L	
6	09	09K	18	30	10
9	13	13K	24	37	10

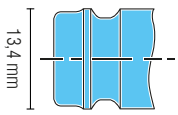
COUPLING WITH PLUG



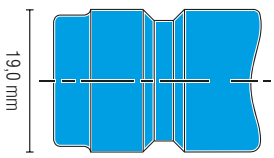
DN	Series	⊂⊃	↔	A	D	SW	
6	09	09K13NV	09K13N	13	18	52	10
9	13	13K9NV	13K9N	9	23	51	10



Series 09

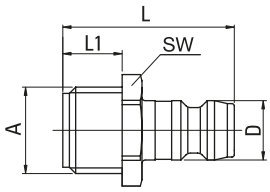


Series 13



Series 19

MALE PLUG

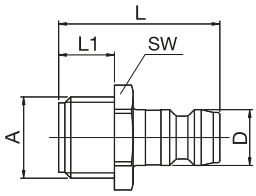


DN	Series	OW	↔	A	D	L	L1	SW	
6	09		09NM8	M8x0,75	9	24	7	11	25
			09NM10	M10x1	9	24	7	11	25
			09NR1/8*	G1/8	9	24	7	11	25
			09NM12	M12x1,5	9	27	10	14	25
			09NM14	M14x1,5	9	26	9	15	25
		09NM14V		M14x1,5	9	29	12	15	25
			09NR1/4*	G1/4	9	26	9	15	25
		09NR1/4V*		G1/4	9	29	12	15	25
			09NR3/8*	G3/8	9	30	10	17	25
9	13		13NR1/8*	G1/8	13,4	25	8	14	25
			13NM14	M14x1,5	13,4	26	9	15	25
			13NR1/4*	G1/4	13,4	26	9	15	25
		13NR1/4V*		G1/4	13,4	31	12	15	25
			13NR3/8*	G3/8	13,4	26	9	17	25
		13NR3/8V*		G3/8	13,4	30	12	17	25
			13NM16	M16x1,5	13,4	26	9	17	25
		13NM16V		M16x1,5	13,4	30	12	17	25
13	19	19NM24V	19NM24	M24x1,5	19	51	16	27	10
		19NR1/2V*	19NR1/2*	G1/2	19	47	12	22	10
		19NR3/4V*	19NR3/4*	G3/4	19	51	16	27	10

Description
* Nickel Plating

MALE PLUG - STAINLESS STEEL

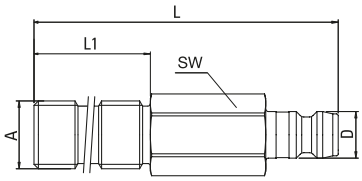
STAINLESS STEEL



DN	Series	↔	A	D	L	L1	SW	
6	09	09NM8SS	M8x0,75	9	24	7	11	25
		09NM10SS	M10x1	9	24	7	11	25
		09NR1/8SS	G1/8	9	24	7	11	25
		09NR1/4SS	G1/4	9	26	9	14	25
9	13	13NR1/4SS	G1/4	13,4	26	9	14	25
		13NR3/8SS	G3/8	13,4	26	9	17	25

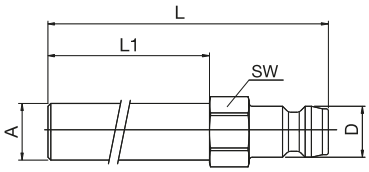
See explanation of symbols on page 8

ADJUSTABLE PLUG



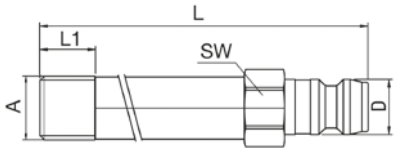
DN	Series	↔	A	D	L	L1	SW	⬡
6	09	09NR1/8/100	G1/8	9	100	60	11	10
		09NR1/4/100	G1/4	9	100	60	14	10
9	13	13NR1/4/100	G1/4	13,4	100	60	14	10
		13NR3/8/100	G3/8	13,4	100	60	19	10

EXTENDED PLUG

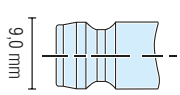


DN	Series	↔	A	D	L	L1	SW	⬡
6	09	09N63	8	9	63	42	9	10
		09N100	8	9	100	79	9	10
		09N120	10	9	120	100	11	10
		09N240	10	9	240	220	11	10
		09N360	10	9	360	340	11	10
9	13	13N150	14	13,4	150	125	15	10
		13N300	14	13,4	300	275	15	10
		13N450	14	13,4	450	425	15	10
13	19	19N500	21	19	500	465	22	5
		19N800	21	19	800	765	22	5

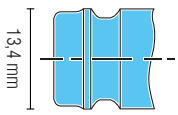
EXTENDED PLUG THREADED



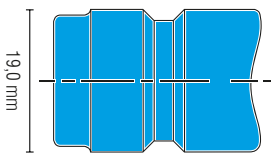
DN	Series	↔	A	D	L	L1	SW	⬡
6	09	09NM10-60	M10X1	9	60	9	11	10
		09NM10-100	M10X1,5	9	100	9	11	10
		09NM10-150	M10X1,5	9	150	9	11	10
		09NR1/8-60	R1/8	9	60	9	11	10
		09NR1/8-100	R1/8	9	100	9	11	10
		09NR1/8-150	R1/8	9	150	12	14	10
		09NR1/4-60	R1/4	9	60	12	14	10
		09NR1/4-100	R1/4	9	100	12	14	10
		09NR1/4-150	R1/4	9	150	12	14	10
9	13	13NR1/4-60	R1/4	13,4	60	12	14	10
		13NR1/4-100	R1/4	13,4	100	12	14	10
		13NR1/4-150	R1/4	13,4	150	12	14	10



Series 09

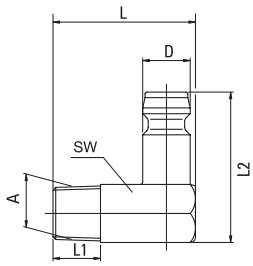


Series 13



Series 19

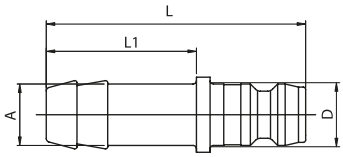
90° MALE PLUG



DN	Series	↔	A	D	L	L1	L2	SW	
6	09	09NM8/90	M8x0,75	9	27	9	28,5	11	25
		09NM10/90	M10x1	9	27	9	28,5	11	25
		09NR1/8/90*	R1/8	9	27	9	28,5	11	25
		09NR1/4/90*	R1/4	9	27	9	28,5	11	25
9	13	13NM14/90	M14x1,5	13,4	34	11	32	15	25
		13NR1/4/90*	R1/4	13,4	34	11	32	15	25
		13NR3/8/90*	R3/8	13,4	34	11	32	15	25
13	19	19NM24/90	M24x1,5	19	47	16	54	24	5
		19NR1/2/90*	R1/2	19	47	16	54	24	5

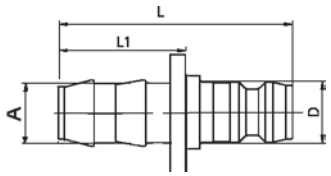
Description
* Nickel plated

HOSETAIL PLUG



DN	Series	↔	A	D	L	L1	
6	09	09N10	10	9	38	22	25
		09N13	13	9	38	22	25
9	13	13N10	10	13,4	41	25	25
		13N13	13	13,4	41	25	25
13	19	19N13	13	19	61	32	5
		19N19	19	19	61	32	5

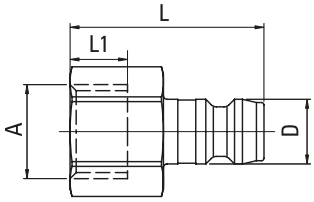
PUSH LOCK - HOSETAIL PLUG



DN	Series	↔	A	D	L	L1	
6	09	09N10-PL	10	9	44	28	10
9	13	13N13-PL	13	13,4	44	28	10

See explanation of symbols on page 8

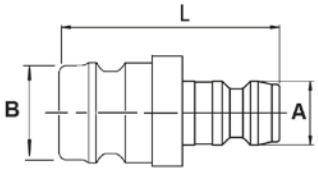
FEMALE PLUG



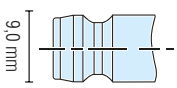
DN	Series	↔	A	D	L	L1	SW	
6	09	09NR1/8I	G1/8	9	24	7	11	25
		09NR1/4I	G1/4	9	24	7	16	25
		09NR3/8I	G3/8	9	27	10	19	25
9	13	13NR1/4I	G1/4	13,4	33	10	16	25
		13NR3/8I	G3/8	13,4	35	10	19	25

Description
*Nickel Plated

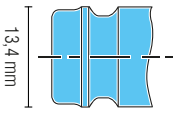
DOUBLE PLUG



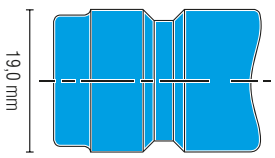
DN		A Series	B Sseries	L	
6	0909DB	9	9	34	10
	0913DB	9	13	34	10
9	1313DB	13	13	34	10



Series 09



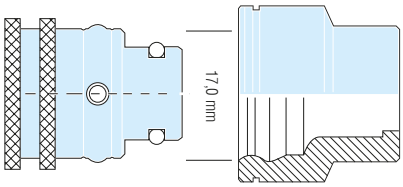
Series 13



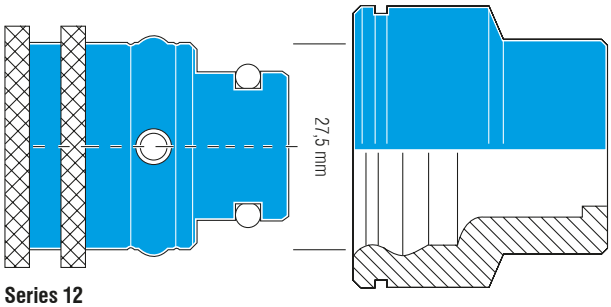
Series 19

Nominal Diameter

08 / 12



Series 08



Series 12

Illustration scale 1:1

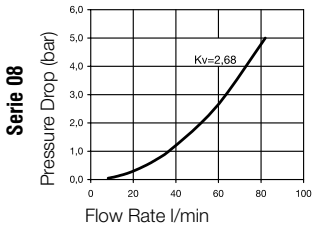
TECHNICAL DESCRIPTION

Coupling series especially developed for connecting coolant lines on injection moulds.

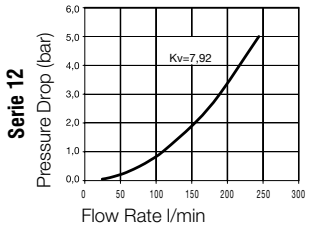
Fully interchangeable with other brands with same plug profiles.

All dimensions and tolerances are made according to original specs.

CHART



Non valved



Non valved

MATERIAL

Coupling		Plug	
Body	Brass, Nickel Plated	Plug	Brass, Nickel Plated
Locking Balls	AISI 420		
Spring	AISI 301		
Seal	FKM		

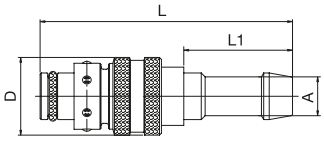
WORKING PRESSURE

15 bar, maximum static working pressure with safety factor of 4 to 1.

WORKING TEMPERATURE

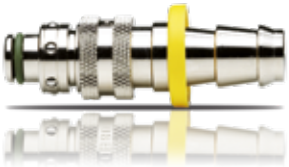
Water -15°C up to +140°C
Oil -15°C up to +180°C

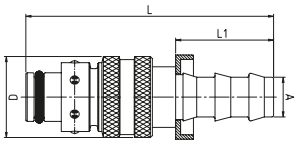
STRAIGHT COUPLING



DN	Series	↔	A	D	L	L1	
8	08	08K8	8	20	65	28	10
		08K10	10	20	65	28	10
		08K12	13	20	65	28	10
12	12	12K13	13	28	77	33	10
		12K16	16	28	77	33	10

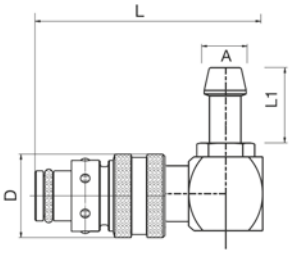
STRAIGHT COUPLING - PUSH LOCK



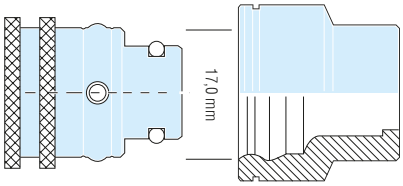


DN	Series	↔	A	D	L	L1	
8	08	08K10-PL	10	20	61,5	24,5	10
		08K12-PL	13	20	65	28	10
12	12	12K13-PL	13	28	77	33	10

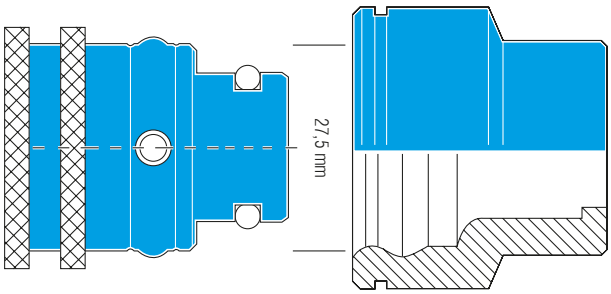
90° COUPLING



DN	Series	↔	A	D	L	L1	
8	08	08K10/90	10	20	51	20	10
		08K12/90	13	20	51	20	10
12	12	12K13/90	13	28	59	25	10
		12K16/90	13	28	62	25	10

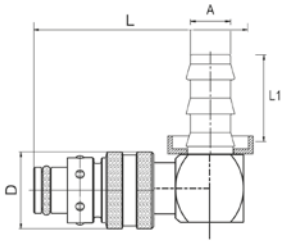


Series 08



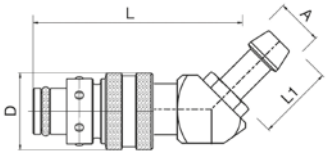
Series 12

90° COUPLING - PUSH LOCK



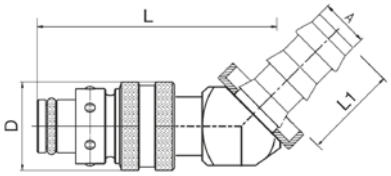
DN	Series	↔	A	D	L	L1	
8	08	08K10/90-PL	10	20	51	20	10
		08K12/90-PL	13	20	51	20	10
12	12	12K13/90-PL	13	28	59	25	10
		12K16/90-PL	16	28	62	25	10

45° COUPLING



DN	Series	↔	A	D	L	L1	
8	08	08K10/45	10	20	51	20	10
		08K12/45	13	20	51	20	10
12	12	12K13/45	13	28	55	25	5
		12K16/45	13	28	55	25	5

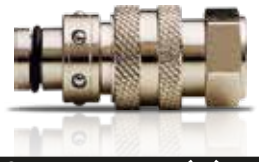
45° COUPLING - PUSH LOCK

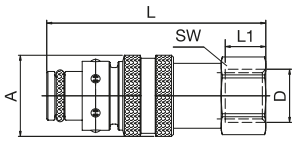


DN	Series	↔	A	D	L	L1	
8	08	08K10/45-PL	10	20	51	20	10
		08K12/45-PL	13	20	51	20	10
12	12	12K13/45-PL	13	28	55	25	5
		12K16/45-PL	13	28	55	25	5

See explanation of symbols on page 8

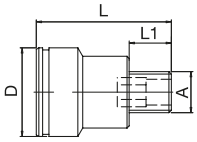
FEMALE THREADED COUPLING





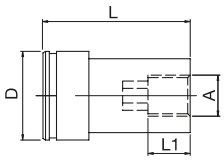
DN	Series	↔	A	D	L	L1	
8	08	08KIR1/4	20	G1/4	43	15	10
12	12	12KIR1/2	20	G1/2	60	20	10

MALE PLUG

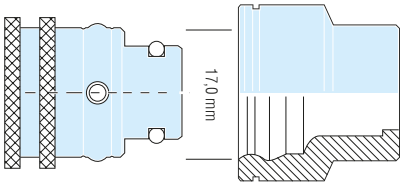


DN	Series	↔	A	D	L	L1	SW	
8	08	08NM10	M10x1	21	32	10	6	25
		08NR1/8	G1/8	21	32	10	6	25
		08NR1/4	G1/4	21	33	12	8	25
		08NR3/8	G3/8	21	24	13	8	25
12	12	12NR3/8	G3/8	32	41	13	10	10
		12NR1/2	G1/2	32	44	16	14	10
		12NR3/4	G3/4	32	32	19	14	10

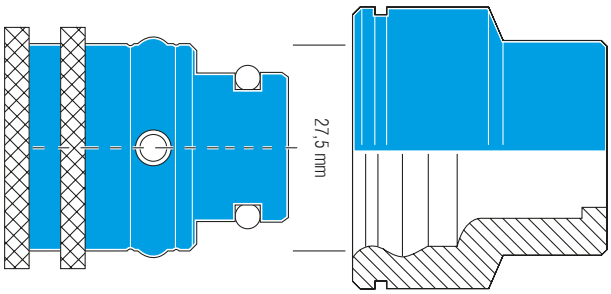
FEMALE PLUG



DN	Series	↔	A	D	L	L1	SW	
8	08	08NR1/8I	G1/8	21	35	10	6	10
		08NR1/4I	G1/4	21	40	14	8	10
12	12	12NR3/8I	G3/8	32	49	14	12	10
		12NR1/2I	G1/2	32	50	14	12	10

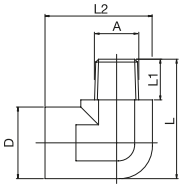


Series 08



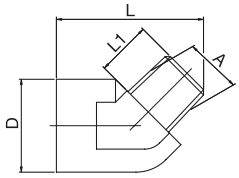
Series 12

90° PLUG



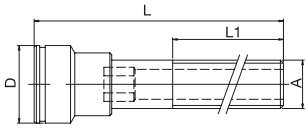
DN	Series	↔	A	D	L	L1	L2	
8	08	08NR1/8/90	R1/8	22	34	11	33	10
		08NR1/4/90	R1/4	22	37	13	33	10
		08NR3/8/90	R3/8	22	37	13	33	10

45° PLUG



DN	Series	↔	A	D	L	L1	L2	
8	08	08NR1/8/45	R1/8	22	33	10,5		10
		08NR1/4/45	R1/4	22	33	10,5		10

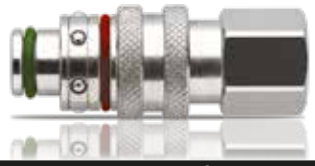
EXTENDED PLUG



DN	Series	↔	A	D	L	L1	SW	
8	08	08NR1/8/50	G1/8	21	50	28	6	10
		08NR1/8/100	G1/8	21	100	60	6	10
		08NR1/8/150	G1/8	21	150	60	6	10
		08NR1/4/50	G1/4	21	50	28	8	10
		08NR1/4/100	G1/4	21	100	60	8	10
		08NR1/4/150	G1/4	21	150	60	8	10
		08NR1/4/200	G1/4	21	200	60	8	10

See explanation of symbols on page 8

COUPLING COLOUR TAGS



	Series	Part No.	Colour	
Colour Clip for couplers	08	08KR		10
Colour Clip for couplers		08KB		10
Colour Clip for couplers		08KS		10
Colour Clip for couplers	12	12KR		10
Colour Clip for couplers		12KB		10
Colour Clip for couplers		12KS		10

PLUG COLOUR TAGS

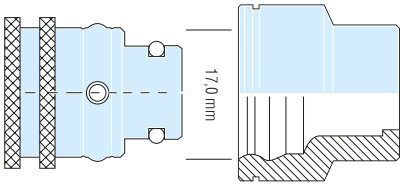
	Series	Part No.	Colour	
Colour Clip for connectors	08	08NR		10
Colour Clip for connectors		08NB		10
Colour Clip for connectors		08NS		10
Colour Clip for connectors	12	12NR		10
Colour Clip for connectors		12NB		10
Colour Clip for connectors		12NS		10

REPLACEMENT SEALS FKM +200°C

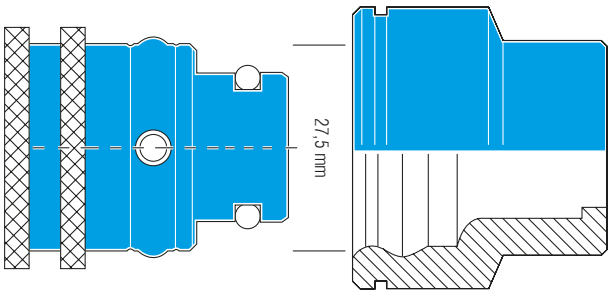
+140 °C

+200 °C

Part No.	Series	S	
08V	08	8	10
12V	12	12	10



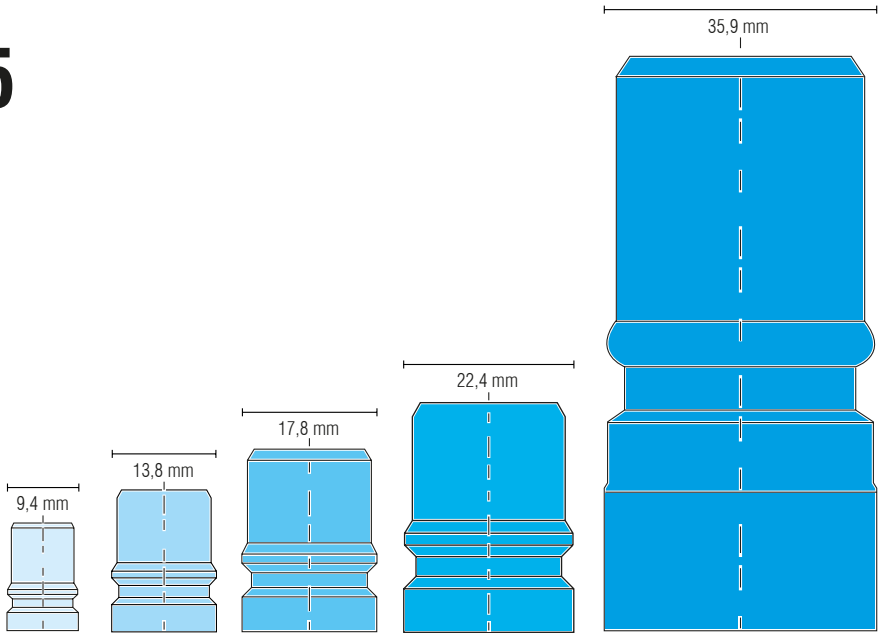
Series 08



Series 12

Nominal Diameter

6 / 9 / 12 / 16 / 25



Series 6 | Series 9 | Series 12 | Series 16 | Series 25

Illustration scale 1:1

TECHNICAL DESCRIPTION

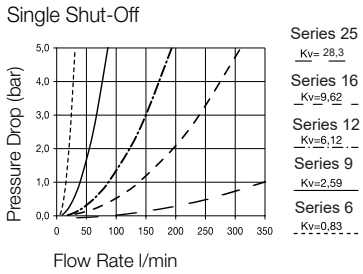
Coupling series especially developed for connecting coolant lines on injection moulds.

Fully interchangeable with other brands with same plug profiles.

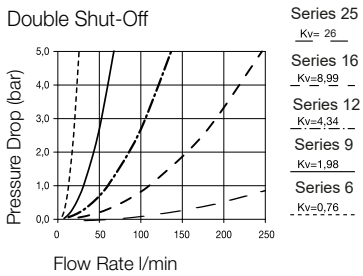
All dimensions and tolerances are made according to original specs.

CHART

Single Shut-Off



Double Shut-Off



MATERIAL

Coupling

Body	Brass, Nickel Plated
Locking Balls	AISI 420
Spring	AISI 301
Seal	FKM

Plug	**Series 6/9/12**	**Series 16/25**
Plug Profile	Brass, Nickel Plated	Steel, Zinc Plated
Back Body	Brass, Nickel Plated	Brass, Nickel Plated
Valve	Brass	Brass
Spring	AISI 301	AISI 301
Seal	FKM	FKM

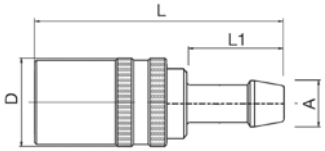
WORKING PRESSURE

15 bar, maximum static working pressure with safety factor of 4 to 1.

WORKING TEMPERATURE

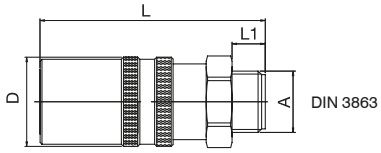
Water -15°C up to +140°C

STRAIGHT COUPLING



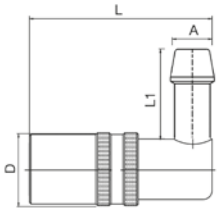
DN	Series	OW	A	D	L	L1	
6	6	F6K8V	8	20	58	22	10
9	9	F9K12V	12	24	71	25	10
12	12	F12K16V	16	32	90,5	32	10
16	16	F16K19V	19	38	112,5	36	5

MALE THREADED COUPLING



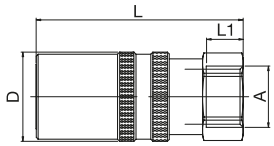
DN	Series	OW	A	D	L	L1	
6	6	F6KUR1/4V	G 1/4	20	54	9	10
9	9	F9KUR3/8V	G 3/8	24	61,0	9	10
12	12	F12KUR1/2V	G 1/2	32	74,5	12	10
16	16	F16KUR3/4V	G 3/4	38	90,5	16	5
25	25	F25KUR1/1V	G 1	60	144	20	1
		F25KUR1-1/4V	G 1-1/4	60	144	21	1

90° COUPLING



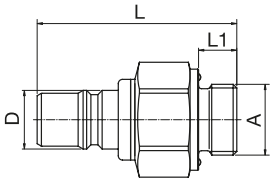
DN	Series	OW	A	D	L	L1	
6	6	F6K8V/90	8	20	60,5	22	10
9	9	F9K10V/90	10	24	60,5	22	10
		F9K12V/90	12	24	60,5	28,5	10

FEMALE THREADED COUPLING



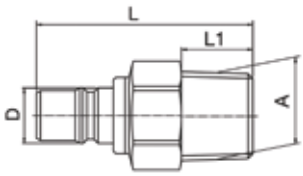
DN	Series		A	D	L	L1	
6	6	F6KIR1/4V	20	47	10	G1/4	10
9	9	F9KIR3/8V	24	56	10	G 3/8	10
12	12	F12KIR1/2V	32	59,5	12	G 1/2	10
16	16	F16KIR3/4V	38	90,5	16	G 3/4	5
25	25	F25KIR1/1V	G 1	60	140	20	1
		F25KIR1-1/4V	G 1-1/4	60	140	21	1

VALVED PLUG



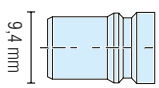
DN	Series		A	D	L	L1	HEX	
6	6	F6NR1/8V	G 1/8	9,4	45	7	17	10
9	9	F9NR1/4V	G 1/4	13,8	49	9	19	10
		F9NR3/8V	G 3/8	13,8	47	9	24	10
		F9NR1/2V	G 1/2	13,8	50	12	27	10
12	12	F12NR3/8V	G 3/8	17,8	61	9	24	10
		F12NR1/2V	G 1/2	17,8	62	12	27	10
		F12NR3/4V	G 3/4	17,8	64	16	32	10
16	16	F16NR3/4V	G 3/4	22,4	81	16	34	5
		F16NR1/1V	G 1	22,4	84	19	41	5
25	25	F25NR1/1V	G 1	36	127	20	50	1
		F25NR1-1/4V	G 1 1/4	36	131,5	20	50	1

VALVED PLUG TAPER THREAD

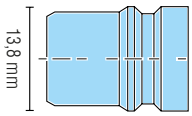


DN	Series		A	D	L	L1	HEX	
6	6	F6NT1/8V	1/8	9,4	45	9	17	10
		F6NT1/4V	1/4	9,4	46	13	17	10
9	9	F9NT1/4V	1/4	13,8	52	13	19	10
		F9NT3/8V	3/8	13,8	52,5	13	19	10
12	12	F12NT3/8V	3/8	17,8	64,5	13	24	10
		F12NT1/2V	1/2	17,8	61	15	24	10
16	16	F16NT3/4V	3/4	22,4	78	16	32	5

See explanation of symbols on page 8

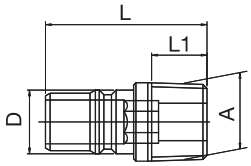


Series 6



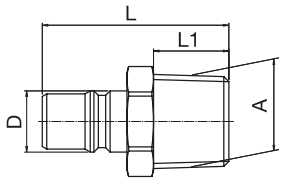
Series 9

MALE PLUG WITH INNNER HEX



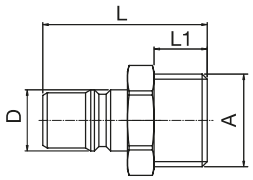
DN	Series	↔	A	D	L	L1	HEX	
6	6	F6NR1/8	R 1/8	10	30	9	5	10
9	9	F9NR1/4	R 1/4	13,8	35	12	8	10
		F9NR3/8	R 3/8	13,8	35	12	8	10
12	12	F12NR3/8	R 3/8	17,8	40	12	10	10

MALE PLUG TAPER THREAD

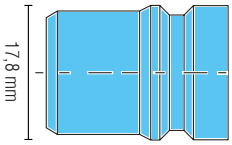


DN	Series	↔	A	D	L	L1	HEX	
12	12	F12NR1/2	R 1/2	17,8	42	17	22	10
16	16	F16NR3/4	R 3/4	22,4	59	19	27	10

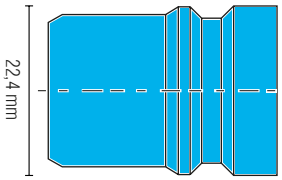
VALVED PLUG SHORT MODEL



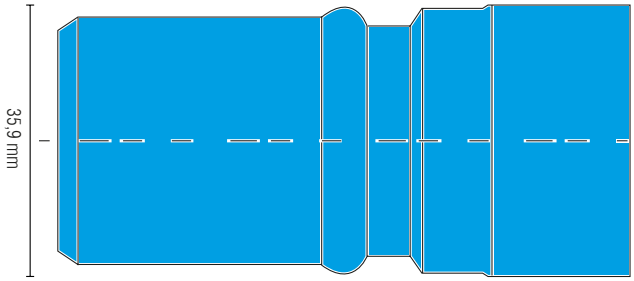
DN	Series		A	D	L	L1	HEX	
9	9	F9NR1/2V-S	G 1/2	13,8	37	12	22	10
12	12	F12NR3/4V-S	G 3/4	17,8	46	16	27	10



Series 12

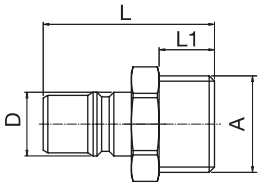


Series 16



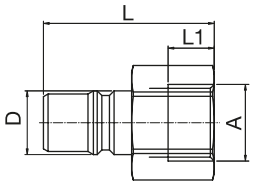
Series 25

MALE PLUG



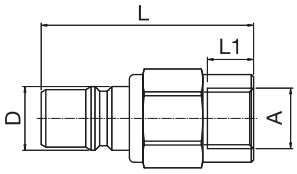
DN	Series	↔	A	D	L	L1	HEX	
9	9	F9NR1/2	G 1/2	13,8	37	12	22	10
12	12	F12NR3/4	G 3/4	17,8	46	16	27	10

FEMALE PLUG



DN	Series	↔	A	D	L	L1	HEX	
6	6	F6NR1/4I	G 1/4	9,4	34	11	17	10
9	9	F9NR3/8I	G 3/8	13,8	37	10	22	10
12	12	F12NR1/2I	G 1/2	17,8	45	12	27	10
25	25	F25NR1/1I	G 1	36	100	20	41	1

FEMALE PLUG VALVED



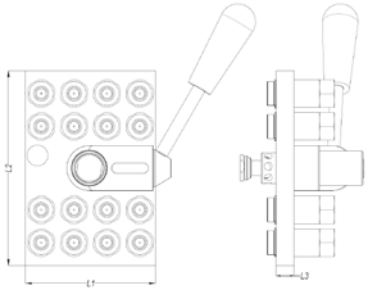
DN	Series		A	D	L	L1	HEX	
9	9	F9NR1/4VI	G 1/4	13,8	46	10	19	10
		F9NR3/8VI	G 3/8	13,8	48	10	22	10
16	16	F16NR3/4VI	G 3/4	22,4	80,5	16	32	5
25	25	F25NR1/1VI	G 1	36	148,5	20	50	1
		F25NR1-1/4VI	G 1-1/4	36	158	20	50	1

See explanation of symbols on page 8

Quick and safe mould changes with our Multi Couplings

Moulds with many cooling connections can be time consuming and may lead to incorrect connections. With our Multi Couplings you can connect all connection in one single operation and eliminate any incorrect connections.

COUPLING PLATE (MACHINE PLATE)



Part No.	# Circuits	# Connections	L1	L2	L3	
MC4	4	8	102	104	14	1
MC6	6	12	154	78	14	1
MC8	8	16	154	104	14	1
MC10	10	20	206	104	14	1
MC12	12	24	240	104	14	1

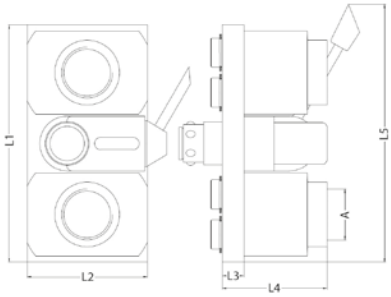
Description
Supplied without couplings (order separately)

COUPLINGS FOR MACHINE PLATE

Connection	Part No.	Part No.	Part No.
Ø 10	MC-C10	MC-C10P	
Ø 13	MC-C13	MC-C13P	
G3/8"			MC-C3/8

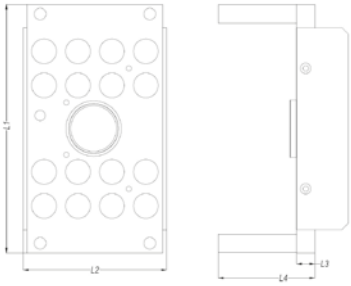
Description
Locking rings inlcuded.
Couplers are with shut off valves and 9 mm. flow capacity.

COUPLING PLATE - WITH INLET AND OUTLET FEMALE COLLECTOR



Part No.	# Circuits	# Connection	A	L1	L2	L3	
MC6-1	6	12	G1"	154	78	14	1
MC10-1-1/4	10	20	G1-1/4"	206	103	14	1
MC12-1-1/4	12	24	G1-1/4"	230	103	14	1

CONNECTION PLATE (MOULD PLATE)



Part No.	# Circuits	# Connections	L1	L2	L3	L4	
MM4-P	4	8	140	104	14	60	1
MM6-P	6	12	190	88	14	60	1
MM8-P	8	16	190	110	14	60	1
MM10-P	10	20	206	110	14	90	1
MM12-P	12	24	256	110	14	90	1

Description
Supplied without Nipples

NIPPLES FOR MOULD PLATE

Connection	Part No.	Part No.	Part No.	Part No.
Ø 10			NC-C10	NC-C10P
Ø 13			NC-C13	NC-C13P
G3/8"	NC-C3/8V	NC-C3/8		

Description
Locking rings inlcuded.
Nipples are with size 9 mm. flow capacity.

See explanation of symbols on page 8

Hose Selection Guide

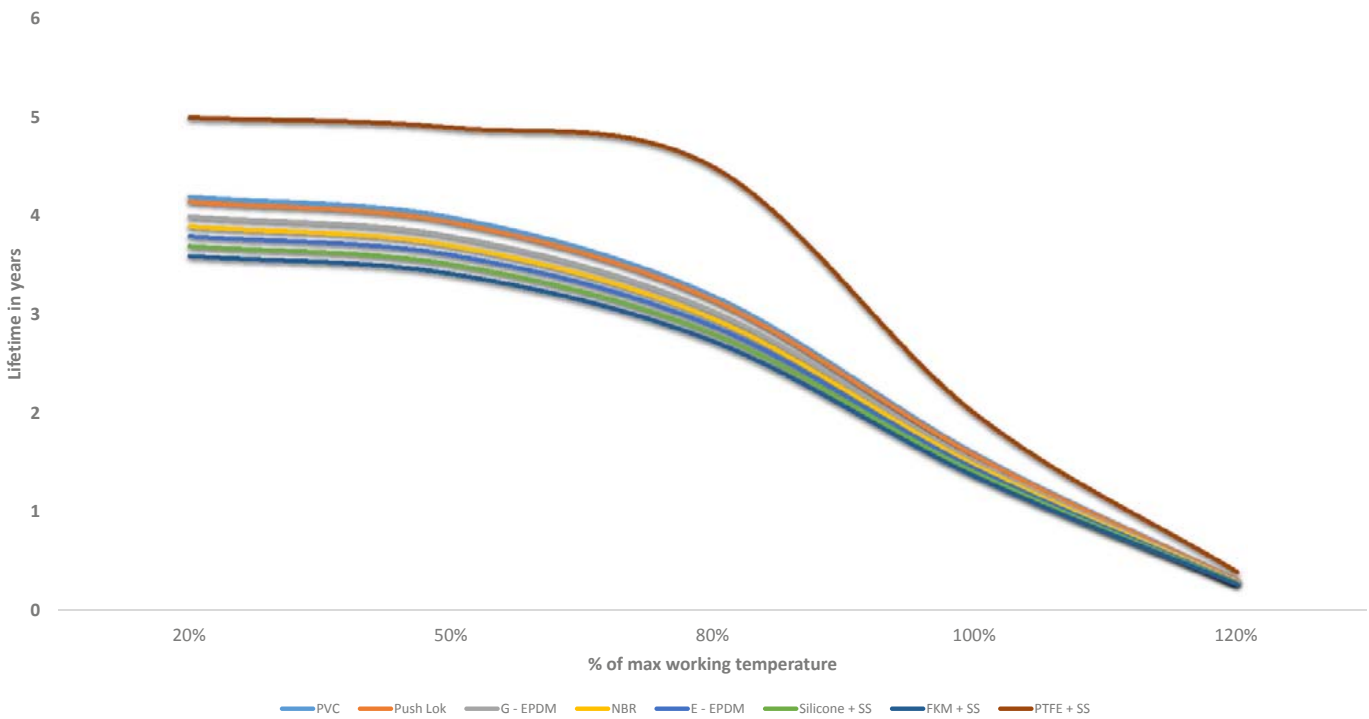
Our Hoses are specially engineered for Mould Cooling applications. We offer a wide range of hoses suitable to match any need for the perfect cooling circuit.

Our hoses are available in most common sizes and in 3 main colours to create logic circuits easy to identify cold and warm transfer connections.

We recommend using Stainless steel crimp ferules which allow you to make profesional and safe assemblies.

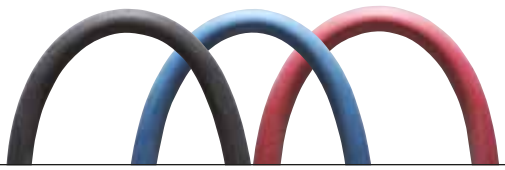
If you require certified hose assemblies then visit our online configurator at **www.hoseconfigurator.net**.

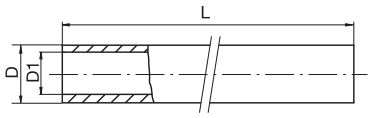
Type	Water	Oil	Working Temperature	Wear Resistance	Chemical Resistance	Pressure Resistance	Flexibility
PVC	✓✓✓	✓	60°C	✓✓	✓✓	✓✓	✓
Push Lok	✓✓✓	✓	90°C	✓✓✓	✓✓	✓✓	✓✓
G - EPDM	✓✓✓	✓	100°C	✓	✓	✓✓	✓✓
NBR	✓	✓✓✓	135°C	✓✓	✓✓✓	✓✓✓	✓✓
E - EPDM	✓✓✓	✓	140°C	✓	✓	✓✓	✓✓
Silicone + SS	✓✓	✓	170°C	✓✓✓	✓	✓✓	✓✓✓
FKM + SS	✓	✓✓✓	200°C	✓✓✓	✓✓✓	✓✓	✓✓
PTFE + SS	✓✓✓	✓✓✓	260°C	✓✓✓	✓✓✓	✓✓✓	✓✓✓



Above figures are only theoritical data, the physical properties are influenced by several factors such as: Pressure, ambient temperatures, wear, additives, sunlight, movement action, bending radius, connection clamping etc. So an individual calculation of lifetime must be based on all variables.

MATERIAL EPDM





Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
E10B	10	16,5	50		15	60	60	1
E10R	10	16,5	50		15	60	60	1
E10S	10	16,5	50		15	60	60	1
E13B	13	21	50		15	60	90	1
E13R	13	21	50		15	60	90	1
E13S	13	21	50		15	60	90	1
E19B	19	27	30		15	60	110	1
E19R	19	27	30		15	60	110	1
E19S	19	27	30		15	60	110	1

Description

Tube:
Black, antistatic, smooth EPM Nitrosamine free rubber compound, resistan t to heat, hot water and water Vapour.

Reinforcement:
Synthetic textile yarns.

Cover:
Blue, Red, or Black smooth EPDM Nitrosamine free rubber compound. Resistant to abrasion, ozone, heat, and weather.

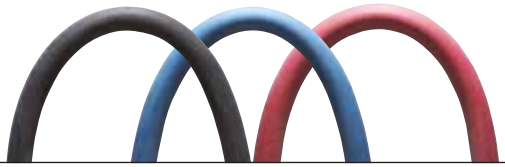
Applications:
Flexible hose designed for hot water and water vapour for mould temperature controlling.

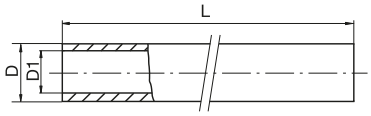
Temperature range:
Working temperature: Up to +140°C (+284°F) peak up to +164°C (+327°F)
Note: Lifetime of this hose will be substantially reduced if operating temperatures exceed +130°C (+266°F).

Tolerances:
UNI EN ISO 1307/97 tolerances for inside diameters up to and including 25 mm.

On inside diameter:
for I.D. 5.1 up to 20 mm ± 0.80 mm
Length tolerance: ± 1%

MATERIAL EPDM





Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
G10B	10	16,5	50		15	60	60	1
G10R	10	16,5	50		15	60	60	1
G10S	10	16,5	50		15	60	60	1
G13B	13	21	50		15	60	90	1
G13R	13	21	50		15	60	90	1
G13S	13	21	50		15	60	90	1
G19B	19	27	30		15	60	110	1
G19R	19	27	30		15	60	110	1
G19S	19	27	30		15	60	110	1
G25B	25	35	20		15	60	130	1
G25R	25	35	20		15	60	130	1
G38B	38	48	20		10	30	200	1
G38R	38	48	20		10	30	200	1

Description

Tube:
Black, antistatic, smooth EPDM Nitrosamine free rubber compound, resistant to water, hot water, air, light-chemical media.

Reinforcement:
Synthetic textile yarns.

Cover:
Red, Blue or Black smooth EPDM Nitrosamine free rubber compound.

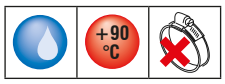
Applications:
Designed for air, cold and hot water, and light-chemical media for mould temperature controlling.

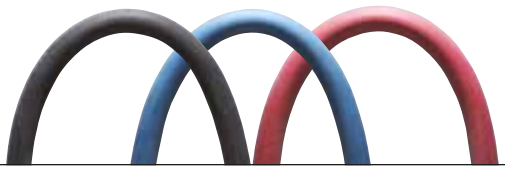
Temperature range:
Working temperature: Up to +100°C (+248°F).

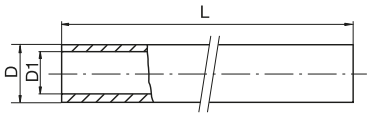
Tolerances:
UNI EN ISO 1307/97 tolerances for inside diameters up to and including 25 mm.

On inside diameter:
for I.D. 5.1 up to 20 mm ± 0.80 mm
Length tolerance: ± 1%.

MATERIAL NBR/PVC - PUSH LOCK HOSE







Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
PL10B	10	16	50		12	83	75	1
PL10R	10	16	50		12	83	75	1
PL10S	10	16	50		12	83	75	1
PL13B	13	20	50		12	83	100	1
PL13R	13	20	50		12	83	100	1
PL13S	13	20	50		12	83	100	1

Description

Tube:
NBR/PVC Smooth, low-pressure, "PUSH-LOCK" hydraulic hose. PN3A. Manufactured to CNOMO E07.21.115N, and complies with the stringent pull-off/push-on requirements stated in the standard. For use as air hose on robotic equipment, etc., and for water/oil emulsions both as pressure and return hose. Also available in blue and black.
Our Push-Lock fittings are recommended.

Reinforcement:
Polyvinyl alcohol (PVA)

Cover:
NBR/PVC Wear and Oil resistant.

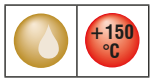
Applications:
Low-Pressure Air, Water and Water/Oil emulsions for mould cooling applications.

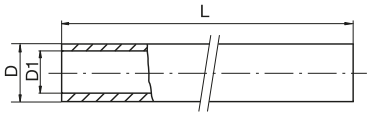
Temperature range:
Up to +90°C (+194°F)

Tolerances:
UNI EN ISO 1307/97 tolerances for inside diameters up to and including 25 mm.

On inside diameter:
for I.D. 5.1 up to 20 mm ± 0.80 mm
Length tolerance: ± 1%
Standards: CNOMO E07.21.115.N

MATERIAL NBR





Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
N10S	10	16,5	50		28	110	75	1
N13S	13	20	50		28	110	100	1

Description

Tube:
Black, antistatic, smooth NBR rubber compound, resistant to Oil.

Reinforcement:
Polyvinyl alcohol (PVA)

Cover:
Black smooth CPE rubber compound.

Applications:
Designed for Oil mould temperature controlling.

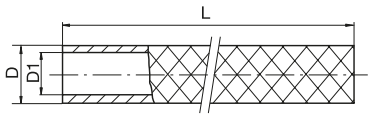
Temperature range:
Working temperature: Up to +135°C (+275°F)
peak up to +150°C (+302°F)

Tolerances:
UNI EN ISO 1307/97 tolerances for inside diameters up to and including 25 mm.

On inside diameter:
for I.D. 5.1 up to 20 mm ± 0.80 mm
Length tolerance: ± 1%

See explanation of symbols on page 8

MATERIAL PVC



Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
P10T	10	16	30		17	51	65	1
P10B	10	16	30		17	51	65	1
P10R	10	16	30		17	51	65	1
P13T	13	19	30		15	45	85	1
P13B	13	19	30		15	45	85	1
P13R	13	19	30		15	45	85	1
P19T	19	26	30		10	30	125	1
P19B	19	26	30		10	30	125	1
P19R	19	26	30		10	30	125	1

Description

Tube:
Transparent soft PVC hose for low temperature water and air.

Reinforcement:
High-strength PES fiber.

Cover:
Clear, blue or red transparent soft PVC.
Resistant to abrasion, ozone, and weather.

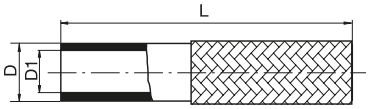
Applications:
Flexible hose designed for cold water for mould temperature controlling.

Temperature range:
Working temperature: Up to +60°C (+140°F)
peak up to +90°C (+194°F)
Note: Lifetime of this hose will be substantially reduced if operating temperatures exceed +60°C (+140°F).

Tolerances:
UNI EN ISO 1307/97 tolerances for inside diameters up to and including 25 mm.

On inside diameter:
for I.D. 5.1 up to 20 mm ± 0.80 mm
Length tolerance: ± 1%

MATERIAL SILICONE



Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
S10	10	15	25		15	45	40	1
S10B	10	15	25		15	45	40	1
S10R	10	15	25		15	45	40	1
S13	13	19	25		15	45	60	1
S13B	13	19	25		15	45	60	1
S13R	13	19	25		15	45	60	1
S19	19	29	25		15	45	100	1

Description

Tube:
Clear Silicone Shore 60°.

Reinforcement:
Stainless steel overbraid with colour marking maed of textile meta aramid. (high temperature resistant)

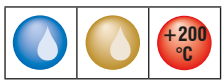
Applications:
Designed for water and light chemical media for mould temperature controlling.

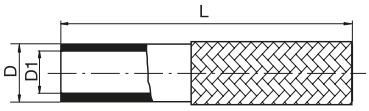
Temperature range:
Working temperature: Max +170°C /+338°F.

Tolerances:
DIN 7715.

See explanation of symbols on page 8

MATERIAL FKM





Part No.	D1	D	L (m)	Colour	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius	
V10	10	16	25		15	45	50	1
V13	13	19	25		15	45	60	1

Description

Tube:
Black Viton shore 65°.

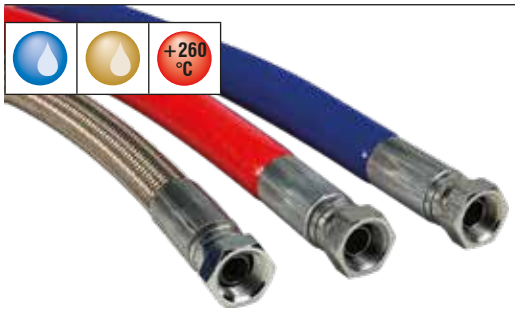
Reinforcement:
Stainless steel overbraid.

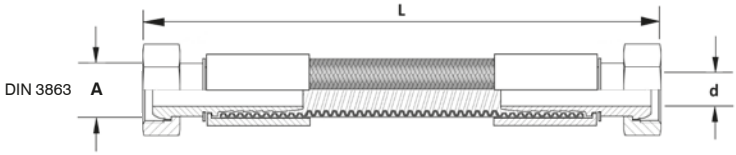
Applications:
Designed for Oil and chemical media for mould temperature controlling.

Temperature range:
Working temperature: Oil Max +200°C (+392°F)
Working temperature: Water Max +140°C (+284°F).

Tolerances:
ISO DIN 3302-1 E2.

HIGH TEMPERATURE WATER AND OIL HOSE ASSEMBLIES





Stainless Steel Braided	Stainless Steel Braided + Red Silicone Jacket	Stainless Steel Braided + Blue Silicone Jacket	A	L	Hose ID (d)	Working Pressure (Bar)	Burst Pressure (Bar)	Bend Radius
T10300R1/4	T10300R1/4-R	T10300R1/4-B	1/4" BSPP	300	10	20	80	22
T10600R1/4	T10600R1/4-R	T10600R1/4-B		600				
T10800R1/4	T10800R1/4-R	T10800R1/4-B		800				
T101000R1/4	T101000R1/4-R	T101000R1/4-B		1000				
T101250R1/4	T101250R1/4-R	T101250R1/4-B		1250				
T101500R1/4	T101500R1/4-R	T101500R1/4-B		1500				
T102000R1/4	T102000R1/4-R	T102000R1/4-B		2000				
T10300M14	T10300M14-R	T10300M14-B	M14x1,5	300	10	20	80	22
T10600M14	T10600M14-R	T10600M14-B		600				
T10800M14	T10800M14-R	T10800M14-B		800				
T101000M14	T101000M14-R	T101000M14-B		1000				
T101250M14	T101250M14-R	T101250M14-B		1250				
T101500M14	T101500M14-R	T101500M14-B		1500				
T102000M14	T102000M14-R	T102000M14-B		2000				
T13300R3/8	T13300R3/8-R	T13300R3/8-B	3/8" BSPP	300	13	20	80	25
T13600R3/8	T13600R3/8-R	T13600R3/8-B		600				
T13800R3/8	T13800R3/8-R	T13800R3/8-B		800				
T131000R3/8	T131000R3/8-R	T131000R3/8-B		1000				
T131250R3/8	T131250R3/8-R	T131250R3/8-B		1250				
T131500R3/8	T131500R3/8-R	T131500R3/8-B		1500				
T132000R3/8	T132000R3/8-R	T132000R3/8-B		2000				

Description
With 60° Cone Seat swivel fittings DIN 3863.

Tube:
Low profile helically convoluted PTFE (polytetrafluorethylene).

Reinforcement:
Stainless steel overbraid (Red/Blue Silicone cover).

Applications:
Designed for Water, Oil and chemical media for mould temperature controlling.

Temperature range:
Working temperature:
Max +260°C (+500°F)
RED/BLUE: Only +200°C (+392°F).

Tolerances:
ISO DIN 3302-1 E2.

See explanation of symbols on page 8

LEAK FREE HOSE ASSEMBLIES

Order online at: www.hoseconfigurator.net

SAFETY HEAT SLEEVE

Part No.	Colour	ø (ID) mm.	Length
SHS10		10	20 m.
SHS10B		10	20 m.
SHS15		15	20 m.
SHS15B		15	20 m.
SHS20		20	20 m.
SHS20B		20	20 m.
SHS25		25	20 m.
SHS25B		25	20 m.
SHS30		30	20 m.
SHS30B		30	20 m.
SHS40		40	20 m.
SHS40B		40	20 m.

Description
Protect hoses and cables from heat exposure
Material: Glass fiber with silicone coating
Temperature: Up to +260°C continuous heat

HEAT TAPE

Part No.	Colour	Thickness (mm)	Width (mm)	Roll Length (mm)
HT-B-3	Blue	0,5	25,4	3000
HT-R-3	Red	0,5	25,4	3000

Description
Material: Silicone
Resists Temps +260°C (+500°F) to -50°C (-60°F)
No Adhesive Therefore No Residue when Removed
Conforms to Shape to Create an Air and Water Tight Seal
Stretches up to 300 %

SAFETY SLEEVE

Part No.	ø (ID) mm	Flat (mm)	Length (roll)
SS17	17	30	50 m.
SS23	23	40	50 m.
SS30	30	50	50 m.
SS39	39	65	50 m.
SS55	55	90	50 m.

Description
Protect in case of burst hose
Protect hose from abrasion
Resistant to chemicals
Polyester up to +120 degrees

SAFE-STRIP, STANDARD

Part No.	Length (mm)	Bundel max (mm)	Strip Width (mm)
STD70	310	70	40
STD100	435	100	40
STD125	505	125	40
STD155	605	155	40
STD180	680	180	40

Description
Safe-Strip made of polypropylene with Velcro fasteners

SAFE-STRIP, WITH MOUNTING EYELET

Part No.	Length (mm)	Bundle max (mm)	Strip Width (mm)
STE70	340	70	40
STE100	455	100	40
STE125	540	125	40
STE155	660	155	40
STE180	765	180	40

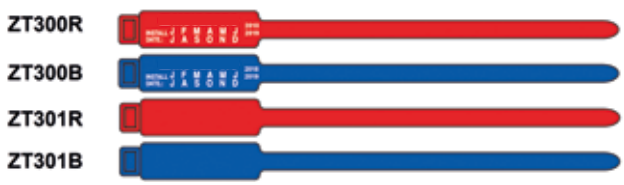
Description
Safe-Strip made of polypropylene with Velcro fasteners. With Eyelet

SAFE-STRIP WITH BUCKLE

Part No.	Length (mm)	Strip Width (mm)
STB50	500	25
STB100	1000	25
STB150	1500	25

Description
Safe-Strip made of polyproylene with quick-release buckle

HOSE ZIPTAG



Part No.	Type	Colour	Length	
ZT300R	Date/Year	Red	300 mm.	10
ZT300B	Date/Year	Blue	300 mm.	10
ZT301R	Plain	Red	300 mm.	10
ZT301B	Plain	Blue	300 mm.	10

Description
Ziptags available in 2 styles:
- With install date marking
- Plain for individual marking/labelling

Material: Nylon
Temperature range: Up to +150°C

HOSE CUTTING TOOL

Part No.	Size	
HC025	0-25 mm	1

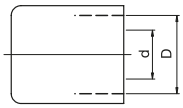
Description
For PVC and Rubber hoses only

SPARE BLADES

Part No.	Size	
HC-SB	One Size	1

FERRULE

STAINLESS STEEL



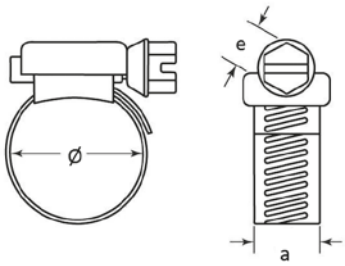
Part No.	D	d		Hose Ref.
C10/15	15,9	10	100	S10
C10/16	16,9	10	100	V10/P10/N10
C10/17	17,5	10	100	G10/E10
C13/20	20	13	100	P13/S13
C13/21	20,6	13	100	N13/V13
C13/22	22,5	13	100	G13/E13
C19/29	29	19	100	G19/E19

Description
Ferrules made of Stainless Steel.
Offers perfect and safe connections.

HAND CRIMPER

Part No.	Crimp Range (mm)	
X100	10-36	1

HOSE CLAMPS STANDARD TYPE

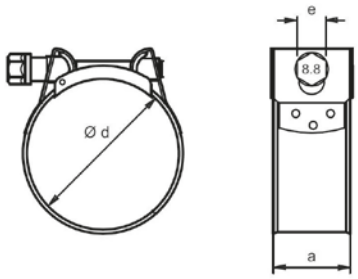


Part No.	Ø	e	a		Hose ref.
K10	11-17	7	9	50	S10/V10/P10/E10/G10/N10
K13	13-20	7	9	50	S13/V13/P13/E13/G13/N13
K19	22-32	7	9	50	S19/P19/E19/G19
K25	32-44	7	9	50	E25/G25

Description
Screw: Electro zinc plated. Band: Galfan/Aluzink. Housing: Painted.

HOSE CLAMPS HEAVY DUTY

STAINLESS STEEL



Part No.	Ø	e	a		Hose ref.
HDC2527	25-27	8	18	50	P19/E19/G19
HDC3437	34-37	11	20	50	G25
HDC4751	47-51	11	20	50	G38

Description
Material: Stainless Steel

FLEXIBLE HOSE CLIP SCREWDRIVER

Part No.	A/F
SD01	7

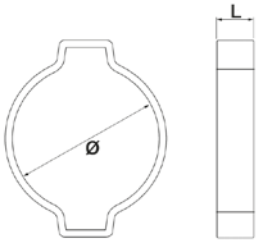
Description
Flexible screwdriver for hose clips
7 mm A/F

SIDE PINCER

Part No.	Side Pincer	Front Pincer	
PS01	•	•	1

Description
Suitable for Ear Clamps
Can be used either front or side access

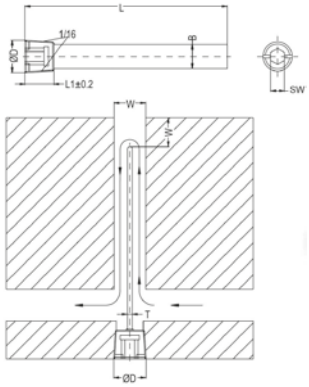
TWO-EAR CLIP



Part No.	ø - ID	L		HOSE Ref
EAR15	13-15	7	100	S10/V10
EAR17	14-17	7	100	P10/N10
EAR18	15-18	7,5	100	E10/G10
EAR20	17-20	7,5	100	S13/V13/P13/N13
EAR23	20-23	8,5	100	E13/G13
EAR27	23-27	8,5	100	P19
EAR28	25-28	9	100	E19/G19

Description
Two-ear clips are an economical solution for simple hose assemblies.
The two ears give the clip extra grip and help to maintain constant pressure around the hose.
Two-ear clips offer great versatility in simple hose assemblies.
Material: St 34 steel : Finish Silver-white Cr3 Zinc-Plated

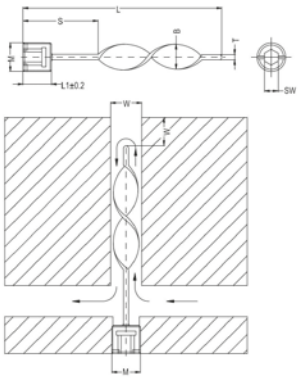
STRAIGHT BLADE BAFFLES



Part No	Thread	SW	W	B	L	L1	T
MB100-1/16	1/16”	4	6,5	6,2	104	8	1,61
MB200-1/16	1/16”	4	6,5	6,2	204	8	1,61
MB100-1/8	1/8”	5	8,5	8,2	104	8	1,61
MB200-1/8	1/8”	5	8,5	8,2	204	8	1,61
MB125-1/4	1/4”	7	11,5	11,2	131	10	2,43
MB250-1/4	1/4”	7	11,5	11,2	258	10	2,43
MB150-3/8	3/8”	8	15	14,2	156	10	2,43
MB300-3/8	3/8”	8	15	14,2	309	10	2,43
MB200-1/2	1/2”	10	18,5	18,2	207	10	2,43
MB400-1/2	1/2”	10	18,5	18,2	410	10	2,43
MB300-3/4	3/4”	12	23,5	23,2	309	12	3,21
MB500-3/4	3/4”	12	23,5	23,2	512	12	3,21

Description
Material: MS58 Brass

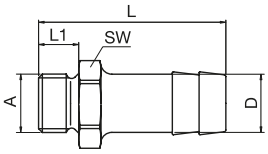
SPIRAL BLADE BAFFLES



Part No	Thread	S	SW	W	B	L	L1	T
MSB100-1/16	1/16”	51	4	6,5	1/4”	101	8	1,61
MSB200-1/16	1/16”	102	4	6,5	1/4”	203	8	1,61
MSB100-1/8	1/8”	51	5	8,5	5/16”	101	8	1,61
MSB200-1/8	1/8”	102	5	8,5	5/16”	203	8	1,61
MSB125-1/4	1/4”	51	7	11,5	7/16”	127	10	2,43
MSB250-1/4	1/4”	102	7	11,5	7/16”	254	10	2,43
MSB150-3/8	3/8”	51	8	15	9/16”	152	10	2,43
MSB300-3/8	3/8”	102	8	15	9/16”	305	10	2,43
MSB200-1/2	1/2”	76	10	18,5	11/16”	203	10	2,43
MSB400-1/2	1/2”	127	10	18,5	11/16”	406	10	2,43
MSB300-3/4	3/4”	102	12	23,5	15/16”	305	12	3,21
MSB500-3/4	3/4”	153	12	23,5	15/16”	508	12	3,21

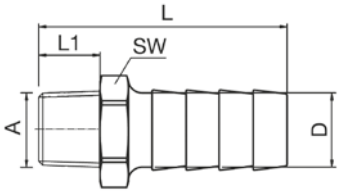
Description
Material: MS58 Brass

HOSE CONNECTOR WITH PARALLEL THREAD



Part No.	A	D	L	L1	SW	
M10M8	M8x0,75	10	33,5	7	11	25
M10M10	M10x1	10	33,5	7	11	25
M10R1/8	1/8” BSP	10	33	7	14	25
M10R1/4	1/4” BSP	10	35	9	17	25
M13M12	M12x1,5	13	40	9	15	25
M13R1/4	1/4” BSP	13	42	9	17	25
M13M14	M14x1,5	13	43	10	17	10
M13M16	M16x1,5	13	40	9	17	10
M13R3/8	3/8” BSP	13	42	9	19	25
M19M24	M24x1,5	19	56	16	27	10
M19R1/2	1/2” BSP	19	54	12	24	10
M19R3/4	3/4” BSP	19	60	16	32	10

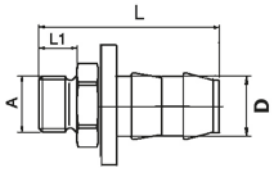
HOSE CONNECTOR WITH TAPER THREAD BSPT



Part No.	A - BSPT	D (Inch)	D (mm)	L	SW	
MH02/04	1/8”	1/4”	6	34	10	25
MH02/06	1/8”	3/8”	10	34	12	25
MH04/04	1/4”	1/4”	6	37	14	25
MH04/06	1/4”	3/8”	10	37	14	25
MH04/08	1/4”	1/2”	13	37	14	25
MH06/06	3/8”	3/8”	10	37	17	25
MH06/08	3/8”	1/2”	13	37	17	25
MH06/10	3/8”	5/8”	16	40	17	25
MH06/12	3/8”	3/4”	19	44	21	25
MH08/06	1/2”	3/8”	10	40,5	21	25
MH08/08	1/2”	1/2”	13	40,5	21	25
MH08/12	1/2”	3/4”	19	46,5	21	25
MH08/16	1/2”	1”	25	50	27	25
MH12/06	3/4”	3/8”	10	42	27	10
MH12/08	3/4”	1/2”	13	42	27	10
MH12/12	3/4”	3/4”	19	48	27	10
MH12/16	3/4”	1”	25	50,5	27	10
MH16/08	1”	1/2”	13	45,5	34	10
MH16/12	1”	3/4”	19	54	34	10
MH16/16	1”	1”	25	54	34	10
MH24/20	1-1/2”	1-1/4”	32	58	48	10
MH24/24	1-1/2”	1-1/2”	38	58	48	10

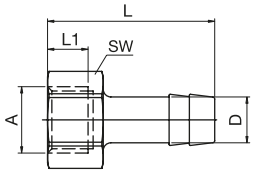
See explanation of symbols on page 8

PUSH LOCK - HOSE CONNECTOR PARALLEL THREAD



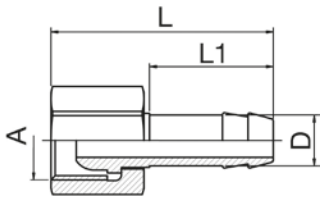
Part No.	A	D	L	L1	
P10R1/8	R1/8	10	39	7	10
P10R1/4	R1/4	10	39	7	10
P10M14	M14x1,5	10	42	7	10
P10R3/8	R3/8	10	43	7	10
P13R1/4	R1/4	13	39	10	10
P13R3/8	R3/8	13	43	10	10
P13R1/2	R1/2	13	43	10	10

FEMALE HOSE CONNECTOR



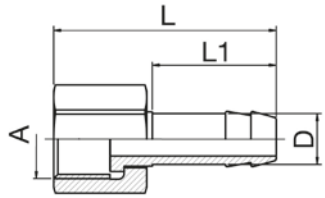
Part No.	A	D	L	L1	SW	
F10R1/8	1/8” BSP	10	33	8	14	25
F10R1/4	1/4” BSP	10	33	8	17	25
F10M14	M14x1,5	10	32	10	17	10
F13R1/4	1/4” BSP	13	39	8	17	25
F13M16	M16x1,5	13	40	10,5	22	10
F13R3/8	3/8” BSP	13	40	8	19	25

HOSE CONNECTOR - BSPP THREAD, SWIVEL NUT AND 60° CONE SEAT



Part No.	A	D	L	L1	SW	
CM14	M14x1,5	10	39,5	22	17	10
CR1/4	G 1/4	10	39,5	22	17	10
CM16	M16x1,5	13	39	25	19	10
CR3/8	G 3/8	13	39	25	19	10
CR1/2	G 1/2	13	45	25	24	10
CM24	M24x1,5	19	52	32	30	10
CR3/4	G 3/4	19	52	32	30	10
CR1	G 1"	25	55	32	38	5

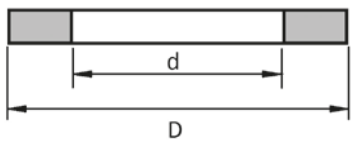
HOSE CONNECTOR - BSPP THREAD, SWIVEL NUT AND FLAT SEAT



Part No.	A	D	L	L1	SW	
CFR3/8-10	G 3/8	10	39	25	22	10
CFR3/8-13	G 3/8	13	39	25	22	10
CFR1/2-13	G 1/2	13	39	25	24	10
CFR3/4-10	G 3/4	10	34	18	29	5
CFR3/4-13	G 3/4	13	36	22	29	5
CFR3/4-19	G 3/4	19	52	32	32	5
CFR1-19	G 1	19	43	25	37	5
CFR1-25	G 1	25	55	32	38	5
CFR1.1/4-32	G 1-1/4	32	55	32	48	1
CFR1.1/2-38	G 1-1/2	38	55	32	52	1

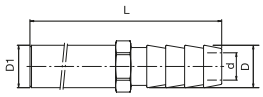
Description
Supplied without gaskets

FIBER GASKETS FOR FLAT SEAT HOSE CONNECTOR



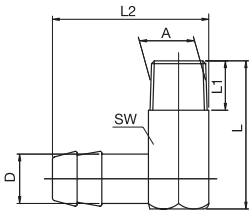
Part No.	D	d	Fit Thread Size	
GK38	14,5	8	G 3/8	1
GK12	18	12,5	G 1/2	1
GK34	24	16	G 3/4	1
GK1	30	25	G 1	1
GK114	38	31	G 1.1/4	1
GK112	44	36	G 1.1/2	1

EXTENDED HOSE CONNECTOR



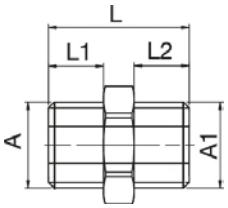
Part No.	D	D1	d	L	SW	
C120/10	10	10	6	120	11	10
C240/10	10	10	8	240	11	10
C150/13	13	14	9	150	15	10
C300/13	13	14	9	300	15	10

90° HOSE CONNECTOR



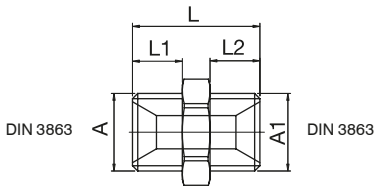
Part No.	A	D	L	L1	L2	SW	
V10M8	M8x0,75	10	27	9	39,5	15	25
V10M10	M10x1	10	27	9	31	11	25
V10R1/8	1/8” BSP	10	24	10	32,5	10	25
V10R1/4	1/4” BSP	10	30	11	38,5	12	25
V13R1/4	1/4” BSP	13	30	10	38,5	13	25
V13M14	M14x1,5	13	34	11	42	17	10
V13R3/8	3/8” BSP	13	37	11	44	19	25
V19M24	M24x1,5	19	47	12	56	24	10
V19R1/2	1/2” BSP	19	47	15	58,5	24	10

DOUBLE NIPPLE WITH TAPER THREAD



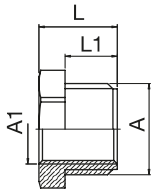
Part No.	A	A1	L	SW	
EC02/02	1/8”	1/8”	23	10	10
EC04/04	1/4”	1/4”	29	14	10
EC06/06	3/8”	3/8”	29	17	10
EC08/08	1/2”	1/2”	35	21	10
EC12/12	3/4”	3/4”	37	27	10
EC16/16	1”	1”	43	34	10
EC20/20	1.1/4”	1.1/4”	46	42	10

DOUBLE NIPPLE WITH PARALLEL THREAD



Part No.	A	A1	L	L1	L2	SW	
ZR1/8	G 1/8	G 1/8	21	8	8	17	10
ZM14	M14x1,5	M14x1,5	23	9	9	17	10
ZM14-R1/4	M14x1,5	G 1/4	23	9	9	17	10
ZR1/4	G 1/4	G 1/4	23	9	9	17	10
ZR1/4-R3/8	G 1/4	G 3/8	23	9	9	19	10
ZM16	M16x1,5	M16x1,5	23	9	9	19	10
ZM16-R3/8	M16x1,5	G 3/8	23	9	9	19	10
ZR3/8	G 3/8	G 3/8	23	9	9	19	10
ZR3/8-R1/2	G 3/8	G 1/2	29	9	12	24	10
ZR1/2-M14	G 1/2	M14x1,5	27	12	9	22	10
ZR1/2-M16	G 1/2	M16x1,5	27	12	9	22	10
ZR1/2	G 1/2	G 1/2	30	12	12	24	10
ZR1/2-R3/4	G 1/2	G 3/4	36	12	16	32	10
ZR1/2-R1/1	G 1/2	G 1	40	12	16	36	10
ZM24-R1/2	M24x1,5	G 1/2	36	16	12	27	10
ZR3/4	G 3/4	G 3/4	40	16	16	32	10
ZR3/4-M24	G 3/4	M24x1,5	40	16	16	32	10
ZR3/4-R1/1	G 3/4	G 1	40	16	16	36	10
ZR1/1-R1/1	G 1	G 1	42	16	16	36	10

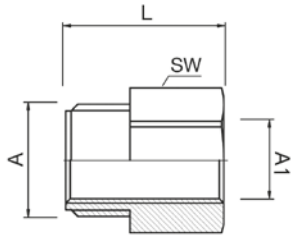
REDUCER NIPPLE



Part No.	A	A1	L	L1	SW	
GR1/4-R1/8	G 1/4”	G 1/8”	11	7	17	10
GM14-M10	M14x1,5	M10X1	11	7	17	10
GR3/8-R1/4	G 3/8”	G 1/4”	13	9	19	10
GM18-M14	M18x1,5	M14x1,5	14	9	22	10
GR1/2-R3/8	G 1/2”	G 3/8”	18	12	24	10
GR3/4-R1/2	G 3/4”	G1/2”	24	16	27	10
GM24-M16	M24x1,5	M16x1,5	24	16	27	10
GR1/1-R3/4*	G 1”	G 3/4”	28	19	34	1
GR11/2-R3/4*	G 1-1/2”	G 3/4”	32	22	50	1
GR11/2-R1/1*	G 1-1/2”	G 1”	32	22	50	1

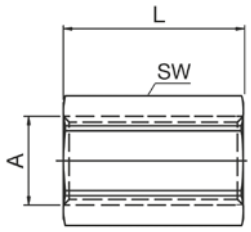
* without sealant coating

CONVERTER NIPPLE



Part No.	A	A1	L	SW	
CN1/8-1/8	G 1/8	G 1/8	23	14	10
CN1/8-1/4	G 1/8	G 1/4	28	17	10
CN1/4-1/8	G 1/4	G 1/8	28	17	10
CN1/4-1/4	G 1/4	G 1/4	28	17	10
CN1/4-3/8	G 1/4	G 3/8	29	19	10
CN3/8-1/4	G 3/8	G 1/4	29	19	10
CN3/8-3/8	G 3/8	G 3/8	29	19	10
CN3/8-1/2	G 3/8	G 1/2	25	24	10
CN1/2-3/8	G 1/2	G 3/8	24	22	10
CN1/2-1/2	G 1/2	G 1/2	27	24	10
CN1/2-3/4	G 1/2	G 3/4	31	30	10

FEMALE CONNECTION NIPPLE



Part No.	A	L	SW	
FN1/8	G 1/8	22	11	10
FN1/4	G 1/4	26	17	10
FN3/8	G 3/8	26	22	10
FN1/2	G 1/2	30	27	10
FN3/4	G 3/4	36	32	10
FN1/1	G 1	40	41	10

ADAPTOR NIPPLE BSPP - NPT

Part No.	BSPP	NPT	
BN1/8	1/8"	1/8"	10
BN1/4	1/4"	1/4"	10
BN3/8	3/8"	3/8"	10

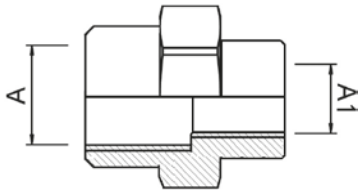
Description
Material: Brass (Nickel Plated)

ADAPTOR NIPPLE NPT - BSPP

Part No.	BSPP	NPT	
NB1/8	1/8"	1/8"	10
NB1/4	1/4"	1/4"	10
NB3/8	3/8"	3/8"	10
NB1/2	1/2"	1/2"	10

Description
Material: Brass (Nickel Plated)

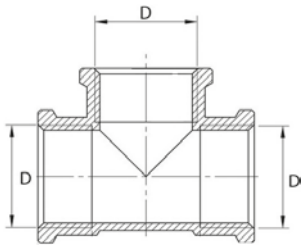
FEMALE REDUCTION NIPPLE



Part No.	A1	A	
FFN1/4-3/8	G1/4"	G3/8"	10
FFN1/4-1/2	G1/4"	G1/2"	10
FFN3/8-1/2	G3/8"	G1/2"	10
FFN1/2-3/4	G1/2"	G3/4"	5
FFN3/4-1	G3/4"	G1"	1

Description
Material: Brass (Nickel Plated)

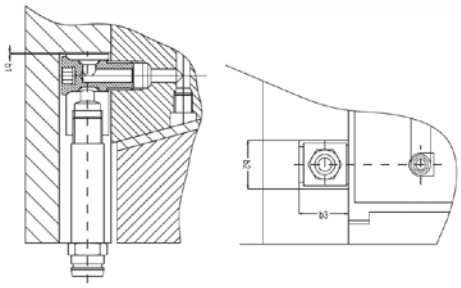
T-CONNECTOR



Part No.	D	
FT3/8	G3/8"	10
FT1/2	G1/2"	10
FT3/4	G3/4"	10
FT1	G1"	5
FT1-1/4	G1.1/4"	1
FT1-1/2	G1.1/2"	1

Description
Material: Brass

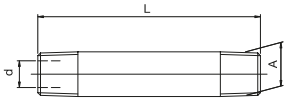
ROTATABLE CONNECTOR



Part No.	Thread	b1	b2	b3	
VS-G1/8	G1/8"	1	16	17,0	10
VS-M10	M10	1	16	17,0	10
VS-G1/4	G1/4"	1	16	23,0	10
VS-M14	M14	1	16	23,0	10
VS-G1/2	G1/2"	1	16	35,5	10

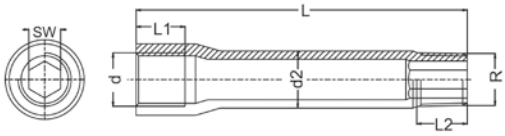
Description
Material: Brass (Nickel Plated)

BARREL NIPPLE



Part No.	T	L	d	
E50R1/8	1/8" BSPT	50	6	10
E100R1/8	1/8" BSPT	100	6	10
E150R1/8	1/8" BSPT	150	6	10
E200R1/8	1/8" BSPT	200	6	10
E50R1/4	1/4" BSPT	50	9	10
E100R1/4	1/4" BSPT	100	9	10
E150R1/4	1/4" BSPT	150	9	10
E200R1/4	1/4" BSPT	200	9	10
E100R3/8	3/8" BSPT	100	12	10
E150R3/8	3/8" BSPT	150	12	10
E200R3/8	3/8" BSPT	200	12	10

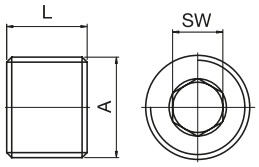
EXTENSION NIPPLE



Part No.	d	R	d2	L	L1	L2	SW
EX18050	R1/8	R1/8	10	50	12	10	5
EX18075	R1/8	R1/8	10	75	12	10	5
EX18100	R1/8	R1/8	10	100	12	10	5
EX18125	R1/8	R1/8	10	125	12	10	5
EX14050	R1/4	R1/4	14	50	12	10	8
EX14075	R1/4	R1/4	14	75	12	10	8
EX14100	R1/4	R1/4	14	100	12	10	8
EX14125	R1/4	R1/4	14	125	12	10	8
EX14150	R1/4	R1/4	14	150	12	10	8

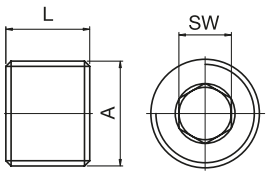
Description
Material: Zinc Plated Steel

PRESSURE PLUG TAPER



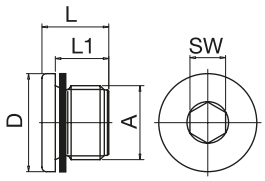
Part No.	A	L	SW	
RM8	M8x0,75	8	4	100
RM10	M10x1	8	5	100
R1/8	1/8” BSPT	8	5	100
RM12	M12x1,5	8	6	100
R1/4	1/4” BSPT	10	7	100
RM14	M14x1,5	10	7	100
R3/8	3/8” BSPT	10	8	100
R1/2	1/2” BSPT	10	10	100

PRESSURE PLUG PARALLEL



Part No.	A	L	SW	
RM8C	M8x0,75	8	4	100
RM10C	M10x1	8	5	100
R1/8C	1/8” BSP	8	5	100
RM12C	M12x1,5	8	6	100
R1/4C	1/4” BSP	10	7	100
RM14C	M14x1,5	10	7	100
R3/8C	3/8” BSP	10	8	100
R1/2C	1/2” BSP	10	10	100

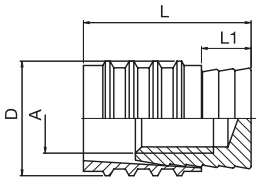
HEX PLUG PARALLEL



Part No.	A	D	L	L1	SW	
DM10	M10x1	14	11	8	5	25
DR1/8	G 1/8	14	11	8	5	25
DM12	M12x1,5	17	15	12	6	25
DR1/4	G 1/4	18	15	12	6	25
DM14	M14x1,5	19	15	12	6	25
DR3/8	G 3/8	22	15	12	8	25
DR1/2	G 1/2	26	18	14	10	25
DR3/4	G3/4”	32	21	16	12	1
DR1	G1”	40	22,5	16	17	1
DR1-1/2*	G1-1/2”	55	22,5	16	24	1

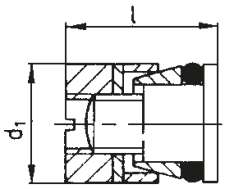
Description
*With O-ring

CHANNEL PLUG



Part No.	A	D	L	L1	
S6	M3	6	11,5	3,5	25
S8	M4	8	11,5	3,5	25
S10-1	M6	10	14	4	25
S12	M6	12	14	4	25
S16	M8	16	16	4	25

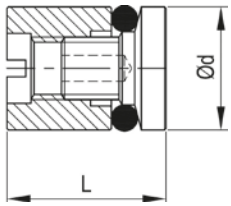
CHANNEL PLUG



Part No.	d1	Length	
KN105-6	6	10	10
KN105-8	8	11	10
KN105-10	10	11	10
KN105-12	12	11	10
KN105-14	14	13	10
KN105-16	16	13	10

Description
Material: Brass
O-ring FKM

CHANNEL PRESSURE PLUG, THREADLESS



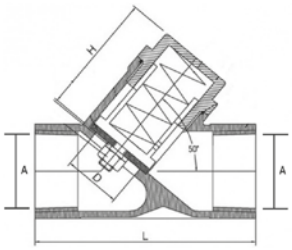
Part No.	L	d	Channel Bore d H13	Installation Key	
CP6	15	6	6	CPT6-..	10
CP8	15	8	8	CPT8-..	10
CP10	15	10	10	CPT10-..	10
CP12	15	12	12	CPT12-..	10

Description
Material: Brass
O-ring: FKM

INSTALLATION TOOL, WITH PLUG EXTRACTOR

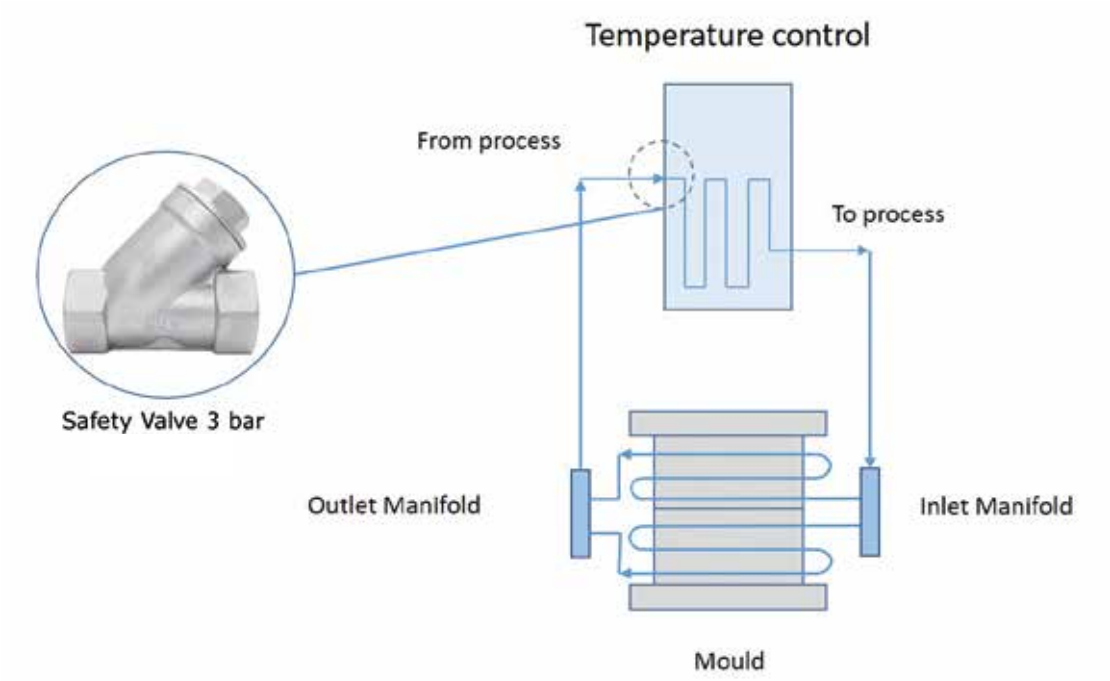
Part No.	Length	Plug diameter	
CPT6-150	150	6	1
CPT6-300	300	6	1
CPT8-150	150	8	1
CPT8-300	300	8	1
CPT10-150	150	10	1
CPT10-300	300	10	1
CPT12-150	150	12	1
CPT12-300	300	12	1

SPRING SAFETY CHECK VALVE 3 BAR



Part No.	A	D	H	L
SV-08-1/2	1/2"	12,5	31	65,5
SV-08-3/4	3/4"	18	40	75,5

Description
Material: Stainless steel
Spring relief pressure: 3 bar



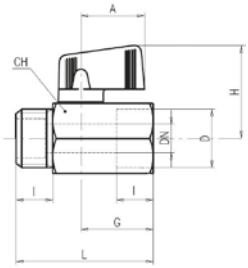
Instructions for non-pressurized cooling systems:

Safe-lock is activated by pressure of min. 3 bar - therefore you must ensure that your cooling circuit is pressurized at all time.

Low temperature (0-90°C) temperature controls typically operates with open tank (no pressure) and the pump cannot ensure pressure throughout the entire system.

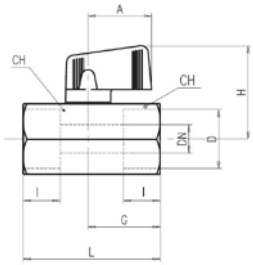
To pressurize these systems, it's required to install a safety valve on the return inlet on the temperature control unit - this will ensure enough back pressure to activate the Safe-Lock safety couplings. See the illustration for details:

MINI BALL VALVE - MALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VMMF02R	VMMF02B	1/8”	5	10	41,5	22	22,5	31	21
VMMF04R	VMMF04B	1/4”	8	11	41,5	22	22,5	31	21
VMMF06R	VMMF06B	3/8”	8	11	41,5	22	22,5	31	21
VMMF08R	VMMF08B	1/2”	10	13	49	22	22,5	31	25

MINI BALL VALVE - FEMALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VM02R	VM02B	1/8”	6	10	41,5	22	22,5	31	21
VM04R	VM04B	1/4”	8	11	41,5	22	22,5	31	21
VM06R	VM06B	3/8”	8	11	41,5	22	22,5	31	21
VM08R	VM08B	1/2”	10	13	49	26	22,5	31	25

Description

Quality:
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Chrome plated brass ball for longer life
- Each valve is seal tested for maximum safety

Body:
- One piece drawn sand blasted brass body with an extreme compact design
- Finest brass according to EN 12164 specification
- Patent n. 7011-B/89

Thread:
- ISO 7/1, BS21 Male thread: BSPT – Female thread: BSPP

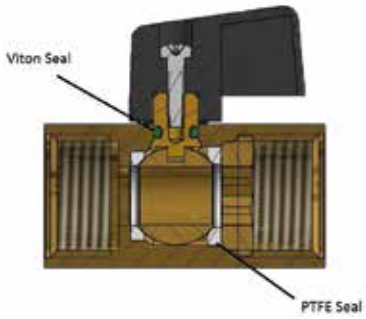
Stem:
- Blowout-proof brass stem with FPM O-ring

Handle:
- Metal Handle removable with valve in service

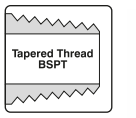
Seals:
- Pure PTFE self-lubricating seats with flexible-lip design

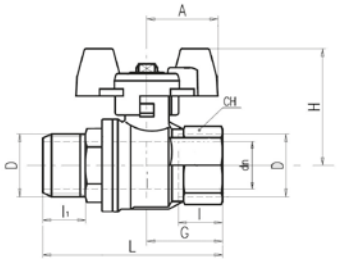
Working Pressure:
- 30 Bar (450 PSI)

Operating Temperature:
- +90°C (+194°F)



BALL VALVE T-HANDLE - MALE / FEMALE





Part No.	Part No.	D	DN	I	I1	L	G	A	H	CH
VTMF04R	VTMF04B	1/4”	8	12	13,5	56,5	22,5	25	39	20
VTMF06R	VTMF06B	3/8”	9,5	12	13,5	56,5	22,5	25	39	20
VTMF08R	VTMF08B	1/2”	15	15,5	16,5	70	29,5	25	43	25
VTMF12R	VTMF12B	3/4”	19	17	18	76,5	32	30	49	31
VTMF16R	VTMF16B	1”	24	21	22	92,5	40,5	30	53	40
VTMF20R	VTMF20B	1-1/4”	30	23	24	106	46,5	57	84,5	49
VTMF24R	VTMF24B	1-1/2”	38	23	24	113	51	57	90,5	54

Description

Quality:
- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No maintenance ever required
- Chrome plated brass ball for longer life
- Travel stops on body to avoid stresses at stem

Body:
- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Flow:
- Full port to DIN 3357 for maximum flow

Thread:
- EN 10226-1, ISO 228 Male thread: BSPT – Female thread: BSPP

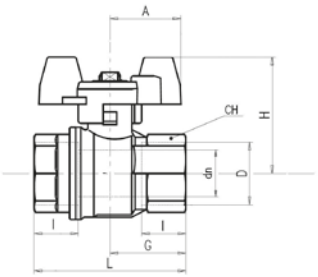
Stem:
- Two FPM O-rings at the stem for maximum safety

Seals:
- Pure PTFE self-lubricating seats with flexible-lip design

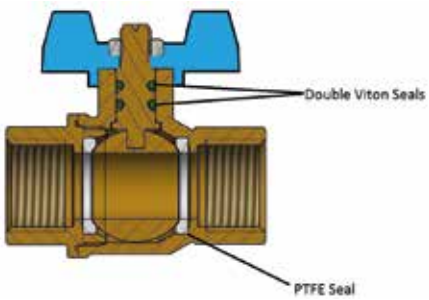
Working Pressure:
- 40 Bar (600 PSI)
- Non-shock cold working pressure

Operating Temperature:
- +170°C (+350°F)

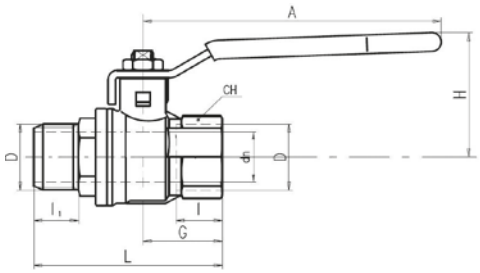
BALL VALVE T-HANDLE - FEMALE / FEMALE



Part No.	Part No.	D	DN	I	L	G	A	H	CH
VT04R	VT04B	1/4”	8	12	45	22,5	25	39	20
VT06R	VT06B	3/8”	9,5	12	45	22,5	25	39	20
VT08R	VT08B	1/2”	15	15,5	59	29,5	25	43	20
VT12R	VT12B	3/4”	19	17	64	32	30	49	31
VT16R	VT16B	1”	24	21	81	40,5	30	53	40
VT20R	VT20B	1-1/4”	30	23	93	46,5	57	84,5	49
VT24R	VT24B	1-1/2”	38	23	102	51	57	90,5	54

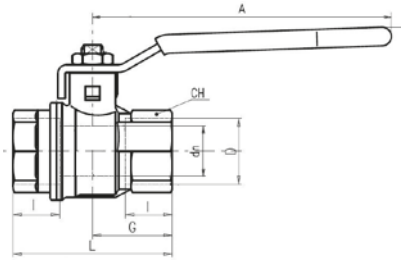


BALL VALVE STANDARD HANDLE - MALE / FEMALE



Part No.	Part No.	D	DN	l	l1	L	G	A	H	CH
VLMF04R	VLMF04B	1/4”	8	12	13,5	56,5	22,5	82	38	20
VLMF06R	VLMF06B	3/8”	9,5	12	13,5	56,5	22,5	82	38	20
VLMF08R	VLMF08B	1/2”	15	15,5	16,5	70	29,5	100	43	25
VLMF12R	VLMF12B	3/4”	19	17	18	76,5	32	120	50	31
VLMF16R	VLMF16B	1”	24	21	22	92,5	40,5	120	54	40
VLMF20R	VLMF20B	1-1/4”	30	23	24	106	46,5	158	73	49
VLMF24R	VLMF24B	1-1/2”	38	23	24	113	51	158	79	54

BALL VALVE STANDARD HANDLE - FEMALE / FEMALE



Part No.	Part No.	D	DN	l	L	G	A	H	CH
VL04R	VL04B	1/4”	8	12	45	22,5	82	38	20
VL06R	VL06B	3/8”	9,5	12	45	22,5	82	38	20
VL08R	VL08B	1/2”	15	15,5	59	29,5	100	43	25
VL12R	VL12B	3/4”	19	17	64	32	120	50	31
VL16R	VL16B	1”	24	21	81	40,5	120	54	40
VL20R	VL20B	1-1/4”	30	23	93	46,5	158	73	49
VL24R	VL24B	1-1/2”	38	23	102	51	158	79	54

Description

Quality:
- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No maintenance ever required
- Chrome plated brass ball for longer life
- Travel stops on body to avoid stresses at stem

Body:
- Hot forged sand blasted, nickel plated brass body and cap sealed with Loctite or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 (formerly DIN 17660 and UNI 5705-65) specifications

Flow:
- Full port to DIN 3357 for maximum flow

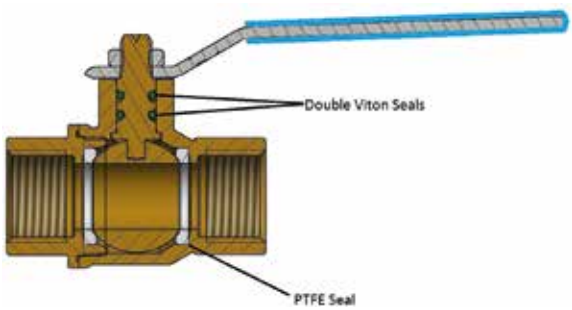
Thread:
- EN 10226-1, ISO 228 Male thread: BSPT – Female thread: BSPP

Stem:
- Two FPM O-rings at the stem for maximum safety

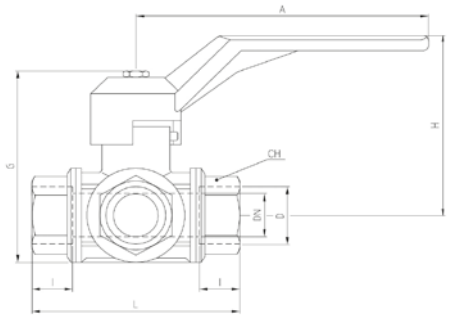
Seals:
- Pure PTFE self-lubricating seats with flexible-lip design

Working Pressure:
- 40 Bar (600 PSI)
- Non-shock cold working pressure

Operating Temperature:
- +170°C (+350°F)



3 WAY BALL VALVE - FEMALE (L-TYPE)



Part No.	D	DN	I	L	G	A	H	CH
V3F04R	1/4"	10	19	77	75	125	65	22
V3F06R	3/8"	12	19	77	75	125	65	22
V3F08R	1/2"	14	19	77	75	125	65	27
V3F12R	3/4"	18	23	92	91	145	83	34
V3F16R	1"	23	25	104	105	170	96	41
V3F20R	1.1/4"	29	27	118	115	170	102	50
V3F24R	1.1/2"	36	31	138	128	170	109	57

Description

Quality:
- Chrome plated brass ball for longer life
- UNI 8858 cycle and troque test performed

Body:
- Hot forged sand blasted nickel plated body and caps
- 3 Way Lever design allows complete range of flow handling applications
- Copper alloy brass according to EN 12165 and EN 12164 specifications

Stem:
- Two NBR O-Rings at the stem for maximum safety

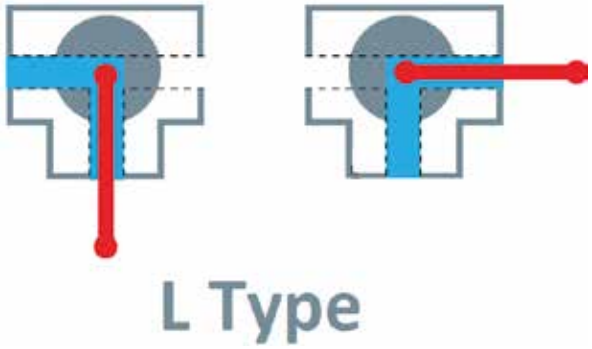
Seals:
- Four seats design limits mixure amoung various fluids in the system
- PTFE seals

Threads:
- ISO 228 female threads

Flow:
- Full port for lowest pressure drops

Working pressure:
- 20 Bar

Working temperature:
- -10 °C to + 120 °C



STRAIGHT MALE

Part No.	Part No.	Tube ØD	Thread
MSM081/8R	MSM081/8B	8	1/8”
MSM081/4R	MSM081/4B	8	1/4”
MSM083/8R	MSM083/8B	8	3/8”
MSM101/4R	MSM101/4B	10	1/4”
MSM103/8R	MSM103/8B	10	3/8”
MSM123/8R	MSM123/8B	12	3/8”
MSM121/2R	MSM121/2B	12	1/2”

Description
Material: Brass, Nickel Plated. Seal: EPDM

90° SWIVEL MALE

Part No.	Part No.	Tube ØD	Thread
MSW081/8R	MSW081/8B	8	1/8”
MSW081/4R	MSW081/4B	8	1/4”
MSW083/8R	MSW083/8B	8	3/8”
MSW101/4R	MSW101/4B	10	1/4”
MSW103/8R	MSW103/8B	10	3/8”
MSW123/8R	MSW123/8B	12	3/8”
MSW121/2R	MSW121/2B	12	1/2”

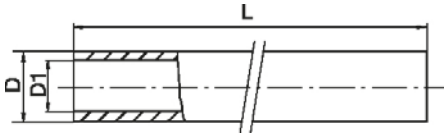
Description
Material: Brass, Nickel Plated. Seal: EPDM

STRAIGHT FEMALE

Part No.	Part No.	Tube ØD	Thread
MSF081/8R	MSF081/8B	8	1/8”
MSF081/4R	MSF081/4B	8	1/4”
MSF083/8R	MSF083/8B	8	3/8”
MSF101/4R	MSF101/4B	10	1/4”
MSF103/8R	MSF103/8B	10	3/8”
MSF123/8R	MSF123/8B	12	3/8”
MSF121/2R	MSF121/2B	12	1/2”

Description
Material: Brass, Nickel Plated. Seal: EPDM

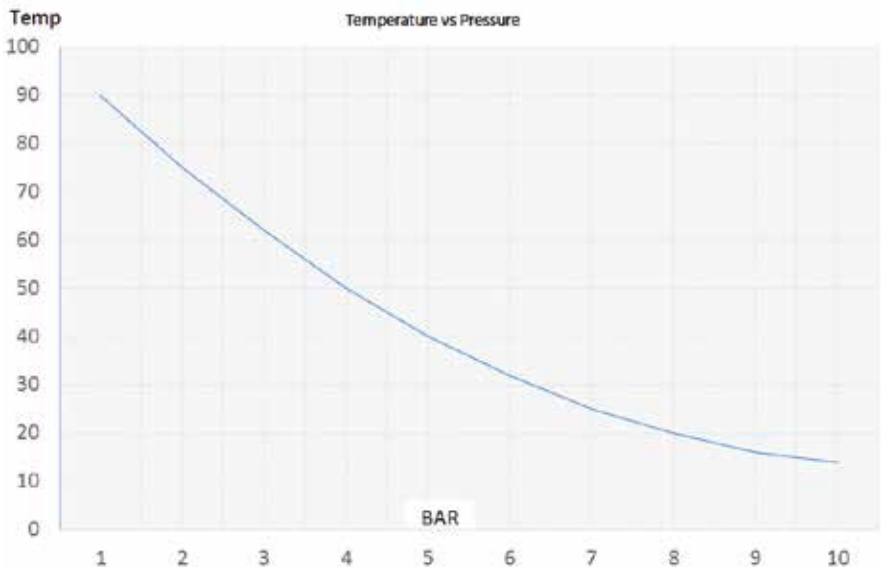
ETHER BASED POLYURETHANE TUBING FOR PUSH-IN FITTINGS - TEMPERATURE MAX 70°C / PEAK 100°C



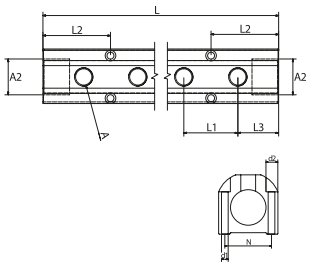
Part No.	Description	D (mm)	D1 (mm)	Working Pressure* PSI	Working Pressure* Bar	Bend Radius (mm)*	Coil Length L	Colour
PPU8B	Pneumatic Polyurethane Tubing 8mm x 5.5mm	8	5.5	116	8	31	30m	
PPU8R	Pneumatic Polyurethane Tubing 8mm x 5.5mm	8	5.5	116	8	31	30m	
PPU10B	Pneumatic Polyurethane Tubing 10mm x 7mm	10	7	116	8	40	30m	
PPU10R	Pneumatic Polyurethane Tubing 10mm x 7mm	10	7	116	8	40	30m	
PPU12B	Pneumatic Polyurethane Tubing 12mm x 8mm	12	8	116	8	43	30m	
PPU12R	Pneumatic Polyurethane Tubing 12mm x 8mm	12	8	116	8	43	30m	

Description

* Working pressure of 8 bar / 116 PSI is based on temperature of 20 °C, higher temperature will result in lower pressure resistance. See below graph for details



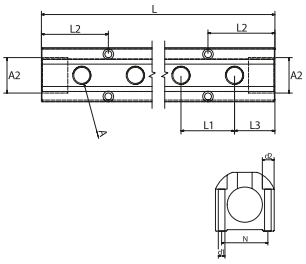
3/4” INLINE ANODIZED MANIFOLD



Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM3-4-1/4-R		4	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	190,5
IM3-4-1/4-B		4	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	190,5
IM3-6-1/4-R		6	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	266,7
IM3-6-1/4-B		6	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	266,7
IM3-8-1/4-R		8	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	342,9
IM3-8-1/4-B		8	1/4”	3/4”	57,2	38,1	38,1	4,5	8	31	342,9

Description
Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unresticted Flow Rates Possible

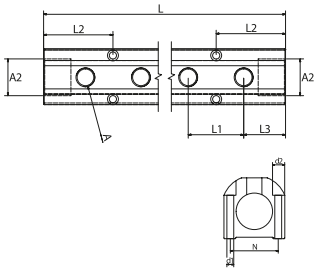
1” INLINE ANODIZED MANIFOLD



Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM4-4-1/4-R		4	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	254
IM4-4-1/4-B		4	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	254
IM4-4-3/8-R		4	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	254
IM4-4-3/8-B		4	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	254
IM4-6-1/4-R		6	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	355,6
IM4-6-1/4-B		6	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	355,6
IM4-6-3/8-R		6	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	355,6
IM4-6-3/8-B		6	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	355,6
IM4-8-1/4-R		8	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	457,2
IM4-8-1/4-B		8	1/4”	1”	76,2	50,8	50,8	7	10,5	40,6	457,2
IM4-8-3/8-R		8	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	457,2
IM4-8-3/8-B		8	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	457,2
IM4-10-3/8-R		10	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	558,8
IM4-10-3/8-B		10	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	558,8
IM4-12-3/8-R		12	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	660,4
IM4-12-3/8-B		12	3/8”	1”	76,2	50,8	50,8	7	10,5	40,6	660,4

Description
Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unresticted Flow Rates Possible

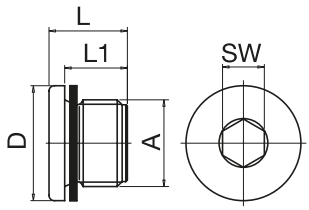
1-1/2” INLINE ANODIZED MANIFOLD



Part No.	Colour	Ports	A (BSPP)	A2 (BSPP)	L2	L3	L1	d1	d2	N	L
IM6-4-1/2-R		4	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	254
IM6-4-1/2-B		4	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	254
IM6-6-1/2-R		6	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	355,6
IM6-6-1/2-B		6	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	355,6
IM6-8-1/2-R		8	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	457,2
IM6-8-1/2-B		8	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	457,2
IM6-10-1/2-R		10	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	558,8
IM6-10-1/2-B		10	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	558,8
IM6-12-1/2-R		12	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	660,4
IM6-12-1/2-B		12	1/2”	1-1/2”	76,2	50,8	50,8	7	10,5	57	660,4

Description
Rugged Low Cost Design
Anodized Aluminium in Blue or Red for easy identification of Flow and Return
Quick Mould Change
Eliminates Piping Errors
Shorter Hose Lengths minimise pressure drops and reduces clutter
Maximum Unresticted Flow Rates Possible

BLANKING PLUGS

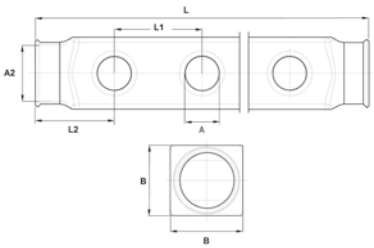


Part No.	A	D	L	L1	SW	VPE
DR3/4	G3/4”	32	21	16	12	1
DR1	G1”	40	22,5	16	17	1
DR1-1/2*	G1-1/2”	55	22,5	16	24	1

* With O-Ring

INLINE STAINLESS STEEL MANIFOLD

STAINLESS STEEL



Part No.	Ports	A (BSPP)	A2 (BSPP)	L	L1	L2	B
SSIM4-4-1/2	4	1/2"	1"	240	50	45	40
SSIM4-6-1/2	6	1/2"	1"	340	50	45	40
SSIM4-8-1/2	8	1/2"	1"	440	50	45	40
SSIM4-10-1/2	10	1/2"	1"	540	50	45	40
SSIM4-12-1/2	12	1/2"	1"	640	50	45	40
SSIM5-4-1/2	4	1/2"	1-1/4"	240	50	45	50
SSIM5-6-1/2	6	1/2"	1-1/4"	340	50	45	50
SSIM5-8-1/2	8	1/2"	1-1/4"	440	50	45	50
SSIM5-10-1/2	10	1/2"	1-1/4"	540	50	45	50
SSIM5-12-1/2	12	1/2"	1-1/4"	640	50	45	50

Description

Stainless steel AISI 304
Perfect for agressive water and oil

Max. pressure 10 bar
Max temp. 200°C

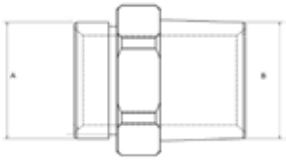
BRACKETS FOR STAINLESS STEEL MANIFOLDS

Part No.	Type	
SS-Bracket	1"	2
SS-5-Bracket	1-1/4"	2

Description

Electro plated steel bracket for installation of a single manifold.
2 Brackets needed for correct installation.

EQUAL CONNECTOR FOR STAINLESS MANIFOLDS



Part No.	Part No.	A	B
ECM1	1" BSPP	1" BSPT	1
ECM1-1/4	1-1/4" BSPP	1-1/4" BSPT	1

Description

Material: Brass Nickel Plated
Max temp.: 130°C

O-Ring: 1" = EPDM
1-1/4" = SILICONE

BLANKING PLUG

Part No.	Thread	Seal
SSEC1	1"	FKM max. temp. 200°C
SSEC1-1/4	1-1/4"	FKM max. temp. 200°C

PTFE TAPE

Part No.	Size	Length
TEF	12 mm	12 m

Description
Excellent for sealing all thread sizes
Temperature range: up to 230°C

THREAD LOCKER

Part No.	Size	Max Thread	Temperature range
77	50 ml.	< M80	-50°C - +150°C

Description
Anaerobic Thread locker for permanent sealing of metal threaded fittings
Single component, liquid adhesive that cures hard in the absence of air or oxygen
Maximum Thread Size: M80
Disassembly strength: High
Temperature range: -50°C - +150°C
Breakaway torque: 32 Nm
Pack sizes: 50ml

PIPE SEALANT

Part No.	Size	Max Thread	Temperature range
542	50 ml.	< 3/4”	-50°C - +150°C

Description
Anaerobic thread sealant for fine metal threaded fittings, especially hydraulic pipes
Single component, liquid adhesive that cures hard in the absence of air or oxygen
Maximum pipe size: 3/4”
Disassembly strength: Medium
Temperature range: -50°C - +150°C
Breakaway torque: 15 Nm
Pack sizes: 50ml

PIPE SEALANT

Part No.	Size	Max Thread	Temperature range
577	50 ml.	< 3”	-50°C - +150°C
577-2	250 ml.	< 3”	-50°C - +150°C

Description
General purpose anaerobic thread sealant for all coarse metal threads
Single component, liquid adhesive that cures hard in the absence of air or oxygen
Maximum Pipe Size: 3”
Disassembly strength: Medium
Temperature range: -50°C - +150°C
Breakaway torque: 11 Nm
Pack sizes: 50ml, 250ml