



OVERVIEW

In order to get the best results from your applications, it is good to understand what options are available within Collection 1. Please note, Collection 1 is not intended to interface with other Collections.

COLLECTION 1 BASICS



Collection 1 is the Original KENT Systems Coupling. The compact design is ideal for compact installations. Collection 1 features include:

- Single O-Ring
- Compact Design
- Soft Stop

APPLICATIONS



Ideal applications for Collection 1 include:

- Fuel management systems
- Ink dispensing
- Lab chemicals
- Hydroponics
- Air lines
- Water lines
- Computer cooling
- And many other applications

TUBE BARBS

SIZES

	1/16"
	3/32"
	1/18"
	5/32"
	3/16"
	1/4"
	5/16"

THREAD OPTIONS

SIZES

	1/8" Male NPT
	1/4" Male NPT

VALVE OPTIONS

VALVE TYPE

	Open-Flow
	Internal Shut-Off

BODY OPTIONS

IMAGE

Female <ul style="list-style-type: none"> • Triggering Open-Flow • Shut-Off 	
Male <ul style="list-style-type: none"> • Triggering Open-Flow • Shut-Off 	
Rotating Male <ul style="list-style-type: none"> • Triggering Open-Flow 	
Locking Male <ul style="list-style-type: none"> • Triggering Open-Flow 	
Rotating & Locking Male <ul style="list-style-type: none"> • Triggering Open-Flow 	

THREADED BODY OPTIONS

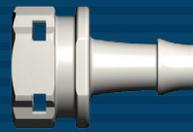
IMAGE

Female With Male NPT <ul style="list-style-type: none"> • Triggering Open-Flow • Shut-Off 	
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OTHER CONFIGURATIONS

IMAGE

Bulkhead <ul style="list-style-type: none"> • Open-Flow • Shut-Off 	
Cross <ul style="list-style-type: none"> • Open-Flow 	
Junction <ul style="list-style-type: none"> • Open-Flow • Shut-Off 	
Caps and Plugs <ul style="list-style-type: none"> • Page 38 	



Overview Specifications

TEST	SPECIFICATION
Pressure Rating	-10 PSI thru 125 PSI
Temperature Rating	-50°F thru 150°F
Connection Cycles Body	10,000 connections (before product should be replaced)
Connection Cycles O-ring (Lubricated Buna-N)	10,000 disconnections (before o-ring should be replaced)

Specifications for products with Nylon, Acetal, Stainless Steel, Buna-N, materials

Flow Rates Female Couplings

BARB SIZE	OPEN-FLOW FEMALE	SHUT-OFF FEMALE
1/16"	0.4 GPM	0.4 GPM
3/32"	0.5 GPM	0.6 GPM
1/8"	1.25 GPM	0.95 GPM
5/32"	1.8 GPM	1.25 GPM
3/16"	2.5 GPM	1.4 GPM
1/4"	3.75 GPM	1.5 GPM
5/16"	4.75 GPM	1.25 GPM

Tested with water, 60°F, 10PSI. Individual results may vary

Flow Rates Male Couplings

BARB SIZE	OPEN-FLOW MALE	SHUT-OFF MALE
1/16"	0.4 GPM	0.4 GPM
3/32"	0.5 GPM	0.6 GPM
1/8"	1.25 GPM	0.95 GPM
5/32"	1.8 GPM	1.25 GPM
3/16"	2.5 GPM	1.4 GPM
1/4"	3.75 GPM	1.5 GPM
5/16"	4.75 GPM	1.75 GPM

Tested with water, 60°F, 10PSI. Individual results may vary

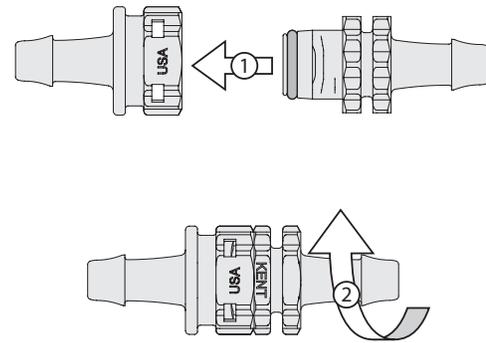
Tubing Sizes

TUBE ID	BARB OD	BORE ID	TUBE ID RANGE
1/16" (1.5 mm)	.102"	.060"	.063" - .078"
3/32" (2.25 mm)	.129"	.076"	.078" - .109"
1/8" (3.0 mm)	.164"	.096"	.094" - .141"
5/32" (4.0 mm)	.208"	.122"	.125" - .188"
3/16" (4.75 mm)	.264"	.155"	.156" - .234"
1/4" (6.25 mm)	.335"	.197"	.188" - .297"
5/16" (8.0 mm)	.425"	.250"	.250" - .375"

Note: Even though KENT Systems couplings are designed to work with a wide range of tubing, tubing can vary greatly in size and tolerance. Tube clamps should not be necessary if using quality tubing at reasonable pressures.

Please contact KENT Systems for Free Samples to use in your testing.

SIMPLE TWIST TURN DESIGN



- Single Barb Design**
 - No parting line helps prevent leak paths
 - Does not require tube clamp
- Soft Over-Turn Stop**
 - Reduces damage caused from connection abuse
- Single O-ring**
 - Keeps product compact
 - Easy to replace
- Single Piece Female Body**
 - Keeps product price low
 - Great for disposable applications

MORE INFORMATION



KentSystems.com/Quick_Couplings_C1_QR.php

Discover more about KENT Systems Quick Couplings online. Simply scan this QR Code to be directed to the Luer section of our website. Data charges may apply. See your cell phone provider for details.