

UNI-SPRAY SYSTEMS INC.

GLOBAL LEADER IN INDUSTRIAL PRETREATMENT SYSTEMS AND PRODUCT INNOVATION

Founded in 1987 as a producer of quality plastic nozzles, Uni-Spray has set itself apart from its competitors by also building and supplying custom-designed plastic piping systems that incorporate Uni-Spray nozzles and cam-operated couplings.

Uni-Spray has since evolved to deliver parts and assemblies to a wide range of industries. Backed by a state-of-the-art production facility and a team of professionals dedicated to excellence and customer satisfaction, Uni-Spray Systems is committed to the manufacture of high-quality industrial products. As both moulder and designer, we are uniquely positioned to quickly and effectively develop and launch new products.



Proudly Serving the Following Industries

















FOOD &

LANDSCAPING

APPLIANCES

AGRICULTURE

WATER PARKS

MARINE

LIQUID FUELS

Uni-Spray Systems Inc.

Imperial | English

CONTENTS



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- 3 Quik-Release Nozzle Assemblies
- 4 Mark 1 Nozzle, Technical Details
- Mark 1 Nozzle, Ordering Information 5
- 6 Mark 2 Nozzle, Technical Details
- 7 Mark 2 Nozzle, Ordering Information
- 8 Mark 3 Nozzle, Technical Details, Ordering Information
- 9 Mark 3 Nozzle, Ordering Information
- 10 Mark 4 Nozzle, Technical Details Ordering Information
- 11 Spray Coverage
- 12 Hollow Cone/Full Cone Tip Selection Data & Threaded Ball Selection Data Nozzle Extensions
- 13 Spray Nozzle Components
- 14 Nozzle Tip Selection Table
- 16 Nozzle Pressure & Flow

17 **QUIK-DISCONNECTS**

- 18 Q.D. Selection Sheet
- 19 Q.D. Ordering Information
- 20 Q.D. Dimensions
- 22 Q.D. Replacement Parts
- 23 Q.D. Pipe-end Separation Distances

24 **PIPE SADDLES**

- 25 Saddle Assembly Instructions
- 26 Saddle Dimensions

RISER SUPPORTS 28

EDUCTORS 30

- 31 Tank Mixing Eductor Capacities
- 32 TME: Tank Mixing Eductors
- 33 TME Capacities

34 **RISER SYSTEMS**

- 35 Riser Selection
- 38 Riser Worksheet Instructions
- 39 Riser Worksheet Example
- 40 Nozzle Angle Selection and Spacing























AUTOMOTIVE

MEDICAL

LIGHTING **LABORATORIES**

INDUSTRIAL

AMERISPRAY BRAND PRODUCT LINE

SPRAY NOZZLES









STEEL INDUSTRY NOZZLES









ATOMIZING NOZZLES









FILTERS







TANK CLEANING NOZZLES









AIR NOZZLES









PAPER MILL PRODUCTS











ACCESSORIES





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QUIK-RELEASE NOZZLE ASSEMBLIES

- Uni-Spray Nozzles are injection molded from custom-blended polypropylene, a cost-effective material that is corrosion and heat-resistant and impervious to most chemicals.
- ◀ The tip design resists clogging and buildup due to its smooth shape and low coefficient of friction.
- A wide variety of Uni-Spray Clamp-On Nozzles are available to suit your application and are colour-coded for easy identification (see table below).
- ◆ All nozzles are available with a Single-Spring or an optional Double-Spring configuration for pressures over 60 psi (4.0 bar).
- All nozzles are available in three spigot sizes, to fit 9/16", 21/32" or 13/16" (14 mm, 17 mm and 19 mm) diameter holes in the riser.

Mark 1 Adjustable Nozzle Assembly

- ◆ Permits directional adjustment of the nozzle tip anywhere within a 45° included angle.
- ◄ Interchangeable Nozzle Tips are available in Full Cone, Hollow Cone or Flat Spray styles with various combinations of spray angle and flow rate.
- The Mark 1 is also available with a Threaded Ball Connection in 1/8", 1/4", 3/8" and 1/2" NPT or BSP, allowing the use of any threaded plastic, brass or steel nozzle.
- ◆ Refer to pages 4 and 5 for Assembly Details and Ordering Information, pages 14 and 15 for Tip Selection and page 13 for Replacement Parts.

Mark 2 Fixed Nozzle Adapter

- ◆ Offers female threaded connections in 1/8", 1/4", 3/8" and 1/2" NPT or BSP threads, allowing the use of any threaded plastic, brass or steel nozzle.
- See pages 6 and 7 for Assembly Details and Ordering Information.



Available Sizes

The Mark 1 and Mark 2 Nozzle Assemblies are colour-coded for convenient identification, and are available to fit the following pipe sizes:

Incl	n / mm	Reg. Spigot	Sm. Spigot	Lg. Spigot	Spigot Size
3/4"	19 mm	21/32" or 17 mm	9/16" or 14 mm 	13/16" or 19 mm 	10 mm Black
1"	25 mm	Blue	Lt Blue	Lt Blue	Diack
1 1/4"	32 mm	Red	Pink	Pink	<u> </u>
1 1/2"	40 mm	Purple	Mauve	Mauve	_
2"	50 mm	Green	Lime Green	Lime Green	_

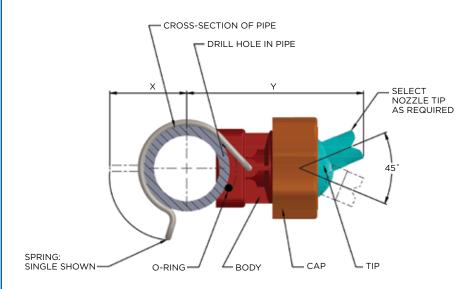


FEATURES

- Inexpensive
- Corrosion resistant
- Impervious to most chemicals
- Heat resistance to 266°F (130°C)
- Injection-molded from customblended polypropylene or Kynar
- Standard with Single Spring Clamp
- Optional Double Spring Clamps for pressures over 60 psi (4.0 bar)
- Resists clogging
- Directional adjustment of nozzle tip anywhere within 45°
- Tips available in Full Cone, Hollow Cone or Flat Spray configurations
- Tips available with Threaded Ball Connection in 1/8", 1/4", 3/8" and 1/2" NPT or BSP threads
- Nozzle bodies available in three spigot sizes to fit either 21/32", 13/16" or 9/16" diameter holes on the riser



Mark 1 Adjustable Nozzle Assembly



MAJOR DIMENSIONS

Inch	X	Υ	OD Pipe Dims
1" Pipe	1.70	3.21	1.315
1 1/4" Pipe	1.89	3.43	1.66
1 1/2" Pipe	2.02	3.56	1.90
2" Pipe	2.25	3.75	2.375
mm	X	Υ	OD Pipe Dims
mm 25 mm Pipe	X 43.2	Y 81.5	OD Pipe Dims
			•
25 mm Pipe	43.2	81.5	34

Also available with Double Springs for pressures from 60 to 150 psi (4.1 to 10.3 bar).

Established in 1987, Uni-Spray Systems Inc. is a global leader in nozzle pretreatment systems and product innovation.

Mark 1 Adjustable Nozzle Assembly ORDERING INSTRUCTIONS

How to order a Mark 1 Adjustable Nozzle Assembly:

The complete Part Number tells us exactly what assembly you want.

For example, let's say that you want to order a Mark 1 Adjustable Nozzle Assembly to fit onto a $1\,1/2$ " pipe, with a Single Spring, and with a 65° Flat Spray Nozzle Tip that will deliver 3.5 gpm at 30 psi:



The Part Number begins with UNI, followed by the pipe size:

UNI 100 = 1" pipe UNI 125 = 1 1/4" pipe UNI 150 = 1 1/2" pipe UNI 200 = 2" pipe

So in our example, we would have so far

UNI 150

STEP 2

Select a Nozzle Tip from page 14 or 15, and add the Tip Number to the Part Number. In our example we now have

UNI 150 6540

Note that the 'UNI' in front of the Tip Number on page 14 is dropped when the Tip Number is incorporated into the Assembly Part Number.

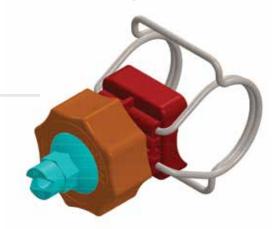
STEP 3

Add M1 to denote the Style, which is standard with Single Spring. If you wanted a Double Spring, the Style would be M1 D.

So in our example, we end up with:

UNI 150 6540 M1

Note: Our standard Nozzle Assemblies are designed with spigots to fit risers with 21/32" diameter holes. We also manufacture assemblies with smaller spigots for 9/16" diameter holes and larger spigots for 13/16" holes. To specify the 9/16" spigots, simply change the 'UNI' in the part number to 'SS' for Small Spigot or LS for Large Spigot. For a Small Spigot, using the example above, the part number would become: SS 150 6540 M1.

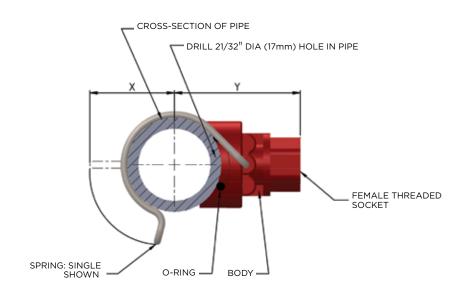




FEATURES

- Inexpensive
- · Corrosion resistant
- Impervious to most chemicals
- Heat resistance to 266°F (130°C)
- Injection-molded from customblended polypropylene or Kynar
- Standard with Single Spring Clamp
- Optional Double Spring Clamps for pressures over 60 psi (4.0 bar)
- Available with threaded connection in 1/8", 1/4", 3/8" and 1/2" NPT or 1/8" BSP threads
- Nozzle bodies fit 21/32" diameter holes on the riser

Mark 2 Fixed Nozzle Adapter





MAJOR DIMENSIONS

Inch	Х	Υ	OD Pipe Dims
1" Pipe	1.70	2.01	1.315
1 1/4" Pipe	1.89	2.21	1.66
1 1/2" Pipe	2.02	2.30	1.90
2" Pipe	2.25	2.54	2.375
mm	X	Υ	OD Pipe Dims
25 mm Pipe	43.2	51.1	34
32 mm Pipe	48.0	56.1	42.7
02 11111111111	40.0	50.1	72.7
40 mm Pipe	51.3	58.4	48.6

Also available with Double Springs for pressures from 60 to 150 psi (4.1 to 10.3 bar).

Uni-Spray manufactures all its high-quality spray systems in Canada. These products are available globally and distributed in 65 countries.

Mark 2 Fixed Nozzle Adapter ORDERING INSTRUCTIONS

How to order a Mark 2 Fixed Nozzle Adapter:

The complete Part Number tells us exactly what assembly you want.

For example, let's say that you want to order a Mark 2 Fixed Nozzle Adapter to fit onto a 1 1/4" pipe, with Double Springs for high pressure, and a 1/4" NPT female threaded connection for use with your standard threaded nozzle tips:



STEP 1

The Part Number begins with UNI, followed by the pipe:

UNI 100 = 1" pipe UNI 125 = 1 1/4" pipe UNI 150 = 1 1/2" pipe UNI 200 = 2" pipe

So in our example, we would have so far

UNI 125

STEP 2

The Thread Sizes are shown as follows:

18 N = 1/8" NPT 18 B = 1/8" BSPT 14 N = 1/4" NPT 38 N = 3/8" NPT 12 N = 1/2" NPT

In our example we now have

UNI 125 14 (For BSPT, we would have UNI 125 14B)

STEP 3

Add M2 D to denote the Style, where D stands for Double Spring. If you wanted a Single Spring, the Style would be M2 S.

So in our example, we end up with

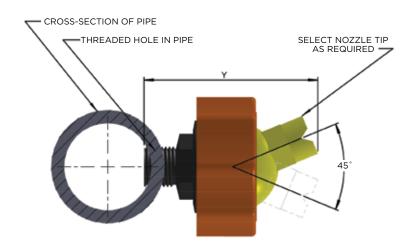
UNI 125 14 M2D



FEATURES

- Inexpensive
- · Corrosion resistant
- Impervious to most chemicals
- Heat resistance to 266°F (130°C)
- Injection-molded from customblended polypropylene or Kynar
- Several thread sizes available
- · Resists clogging
- Directional adjustment of nozzle anywhere within 45°
- Tips available in Full Cone, Hollow Cone, Flat Spray and Quik-Change configurations
- Tips available with Threaded Ball Connections in 1/8", 1/4", 3/8" and 1/2" NPT or BSPT threads
- Mark 3 nozzle bases allow the use of Adjustable Spray Nozzles in applications where threaded nozzles may currently be used
- Mark 3 bases also allow an Adjustable Nozzle where pipe diameters are larger than 2" or smaller than 1" by fitting with a threaded hole drilled in that pipe

Mark 3 Adjustable Nozzle Assembly



MAJOR DIMENSIONS

Inch	Υ	Colour
1/4" Thread / NPT	2.55	Black
3/8" Thread / NPT	2.55	Grey
1/2" Thread / NPT	2.55	Orange
mm	Υ	Colour
mm 1/4" Thread / BSPT	Y 64.77	Colour White
	<u> </u>	





Uni-Spray provides cutting-edge engineering design services as well as an entire range of products geared to the packaging industry.

Mark 3 Adjustable Nozzle Assembly ORDERING INSTRUCTIONS

How to order a Mark 3 Adjustable Nozzle Assembly:

The complete Part Number tells us exactly what assembly you want.

For example, let say that you want to order a Mark 3 Adjustable Nozzle Assembly to fit a 1/4" NPT thread with a 65° Flat Spray Nozzle Tip that will deliver 3.5 gpm at 30 psi:



STEP 1

The Part Number begins with UNI, followed by the pipe size:

UNI 14 N = 1/4" NPT UNI 38 N = 3/8" NPT UNI 12 N = 1/2" NPT

UNI 14 B = 1/4" BSPT UNI 38 B = 3/8" BSPT UNI 12 B = 1/2" BSPT

So in our example, we would have so far

UNI 14 (For BSPT, we would have UNI 14B)

STEP 2

Select a Nozzle Tip from page 14 or 15, and add the Tip Number to the Part Number. In our example we now have

UNI 14 6540

Note that the UNI in front of the Tip Number on page 14 is dropped when the Tip Number is incorporated into the Assembly Part Number

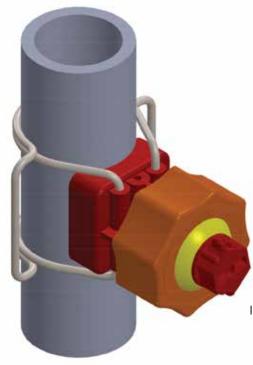
STEP 3

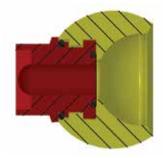
Add M3 to denote the Style of base, which is our standard thread in Adjustable Nozzle bases. So in our example, we end up with

UNI 14 6540 M3

Note: Our Mark 3 nozzle bases have been designed to allow the use of Adjustable Spray Nozzles in applications where standard threaded nozzles may currently be used. They can also be utilized in applications where pipe sizes are smaller than 1" or larger than 2" in diameter, where clip-on nozzles might commonly be used.

UNI-SPRAY QUIK-CHANGE NOZZLE TIP



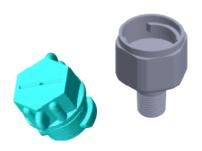


The "Quik-Change" Nozzle Tip is installed with a bayonet mount, and a simple 90° twist is all it takes to lock it into the ball. It is O-Ring sealed at the bottom and lip sealed at the top to prevent the mounting slots and tabs from becoming contaminated and difficult to disassemble.

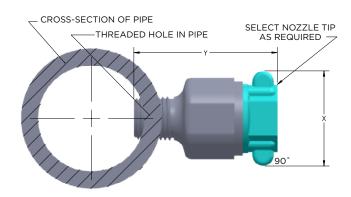
The exterior dimensions and contours of the ball are identical to our standard Adjustable Nozzle Tips, so the full range of adjustment is still available. However, the tip length has been shortened from that of our standard tips, providing even greater clearance between the spray nozzle and your product.

FEATURES

- Inexpensive
- Low profile design
- · Corrosion resistant
- Impervious to most chemicals
- Heat resistance to 266°F (130°C)
- Injection-molded from customblended polypropylene or Kynar
- Available with threaded connections in 1/8", 1/4", 3/8" and 1/2" NPT or BSPT threads
- Convenient replacement process to reduce maintenance downtime

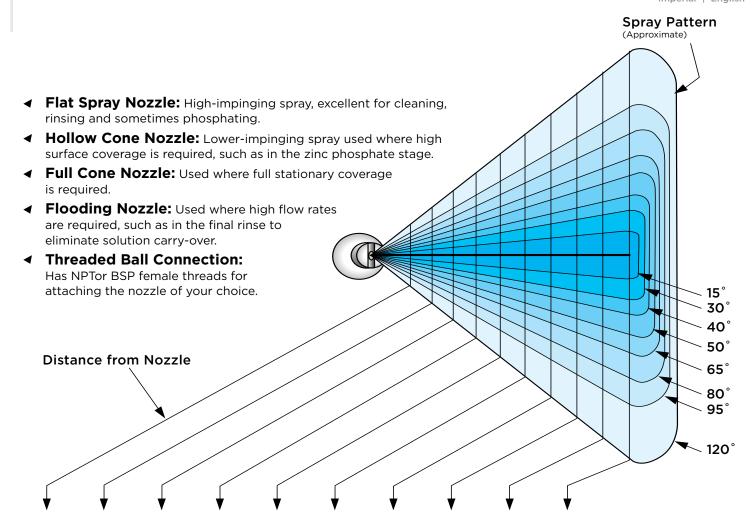


Mark 4 Quik-Change Nozzle Base



MAJOR DIMENSIONS

Part Number	Inches	Υ	Х	Colour
UNI18M4	1/8" Thread / NPT	1.61	1.12	Black
UNI14M4	1/4" Thread / NPT	1.61	1.12	Black
UNI38M4	3/8" Thread / NPT	1.61	1.12	Black
UNI12M4	1/2" Thread / NPT	1.61	1.12	Black
Part Number	mm	Υ	Х	Colour
UNI18BM4	1/8" Thread / BSPT	40.89	28.45	Grey
UNI18BM4 UNI14BM4	1/8" Thread / BSPT 1/4" Thread / BSPT	40.89 40.89	28.45 28.45	Grey Grey
002	, , , , , , , , , , , , , , , , , , , ,		_0	



HEIGHT OF INCLUDED ANGLE OF SPRAY COVERAGE (INCHES)

4"	6"	8"	10"	12"	15"	18"	24"	30"	36"	@ Spray Angle
1.1	1.6	2.1	2.6	3.2	3.9	4.7	6.3	7.9	9.5	15
2.1	3.2	4.3	5.4	6.4	8.0	9.6	12.9	16.1	19.3	30
2.9	4.4	5.8	7.3	8.7	10.9	13.1	17.5	21.8	26.2	40
3.7	5.6	7.5	9.3	11.2	14.0	16.8	22.4	28.0	33.6	50
5.1	7.6	10.2	12.7	15.3	19.1	22.9	30.6	38.2	45.9	65
6.7	10.1	13.4	16.8	20.1	25.2	30.2	40.3	50.3	60.4	80
8.7	13.1	17.5	21.8	26.2	32.7	39.3	52.4	65.5	78.6	95
13.9	20.8	27.7	34.6	41.6	52.0	62.4	83.1	103.9	124.7	120

HEIGHT OF INCLUDED ANGLE OF SPRAY COVERAGE (CM)

10 cm	15 cm	20 cm	25 cm	30 cm	40 cm	50 cm	60 cm	75 cm	90 cm	@ Spray Angle
2.6	3.9	5.3	6.6	7.9	10.5	13.2	15.8	19.7	23.7	15
5.4	8.0	10.7	13.4	16.1	21.4	26.8	32.2	40.2	48.2	30
7.3	10.9	14.6	18.2	21.8	29.1	36.4	43.7	54.6	65.5	40
9.3	14.0	18.7	23.3	28.0	37.3	46.6	56.0	69.9	83.9	50
12.7	19.1	25.5	31.9	38.2	51.0	63.7	76.4	95.6	114.7	65
16.8	25.2	33.6	42.0	50.3	67.1	83.9	100.7	125.9	151.0	80
21.8	32.7	43.7	54.6	65.5	87.3	109.1	131.0	163.7	196.4	95
34.6	52.0	69.3	86.6	103.9	138.6	173.2	207.8	259.8	311.8	120



INJECTION MOLDED THREADED NOZZLE TIPS



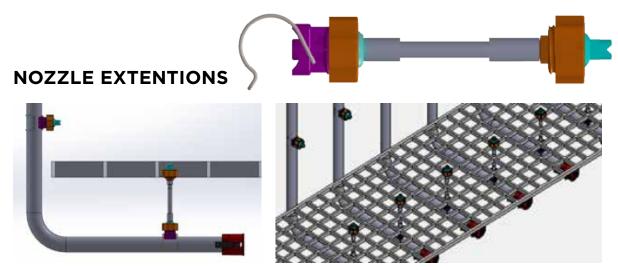
THREADED BALL SELECTION DATA

UNI 1/8 NPT	Lt. Blue	1/8" NPT FEMALE THREADED CONNECTION
UNI 1/8 BSPT	Beige	1/8" BSPT FEMALE THREADED CONNECTION
UNI 1/4 NPT	Lt. Blue	1/4" NPT FEMALE THREADED CONNECTION
UNI 1/4 BSPT	Beige	1/4" BSPT FEMALE THREADED CONNECTION
UNI 3/8 NPT	Lt. Blue	3/8" NPT FEMALE THREADED CONNECTION
UNI 3/8 BSPT	Beige	3/8" BSPT FEMALE THREADED CONNECTION
UNI 1/2 NPT	Lt. Blue	1/2" NPT FEMALE THREADED CONNECTION
UNI 1/2 BSPT	Beige	1/2" BSPT FEMALE THREADED CONNECTION



Uni-Spray also carries a large line of threaded nozzles for every application. Materials ranging from PVC to stainless steel are available in many thread sizes.

PLEASE CALL TO DISCUSS A NOZZLE FOR YOUR SPECIFIC APPLICATION



*NOZZLES SHOULD ALWAYS BE MOUNTED BELOW GRATING, IMAGE IS FOR REPRESENTATION ONLY.

SPRAY NOZZLE COMPONENTS



MARK 1 CAP UNI RC



MARK 1 BODY ONLY
UNI 100 B
UNI 125 B
UNI 150 B
UNI 200 B



MARK 1 BODY, SPRING AND O-RING
UNI 100 BSO
UNI 125 BSO
UNI 150 BSO
UNI 200 BSO



MARK 1 BODY, SINGLE CLAMP AND O-RING
UNI 100 BSOC
UNI 125 BSOC
UNI 150 BSOC
UNI 200 BSOC



MARK 1 ASSEMBLY (NO TIP) DOUBLE CLAMP

UNI 100 BSOCD

UNI 125 BSOCD

UNI 150 BSOCD

UNI 200 BSOCD



MARK 1 OR MARK 2

SINGLE CLAMP
UNI 100 SS
UNI 125 SS
UNI 150 SS
UNI 150 SS
UNI 150 SS DW
UNI 200 SS
UNI 200 SS
UNI 200 SS



MOLDED THREADED NOZZLE 1/8, 1/4, 3/8, 1/2" SEE PAGES 14 AND 15



MARK 4 QUIK-CHANGE BASE 1/8, 1/4, 3/8, 1/2" SEE PAGE 10



NOZZLE TIP SEE PAGES 14 and 15



THREADED BALL SEE PAGE 12



MARK 2 ADAPTER BODY

UNI 100 M2 B

UNI 125 M2 B

UNI 150 M2 B

UNI 200 M2 B



MARK 3 ASSEMBLY BASE SEE PAGES 8 and 9



QUIK-CHANGE TIP SEE PAGES 10, 14 AND 15



QUIK-CHANGE BALL SEE PAGE 10



MARK 1 OR MARK 2 O-RING
UNI ODM EPDM
UNI OVT VITON

NOZZLE TIP SELECTION TABLE

ORDER INSTRUCTIONS

Standard Ball Tip	UNI6540TIP
Quik-Change Tip	UNI6540QCTIP
Threaded Tip (1/4" NPT)	UNI654014TIP



CONTACT US TODAY!
Toll Free: 877-236-0204
uni-spray.com

NOZZLE					CAPACIT	Y (US) GI	PM AT PS	SI				NPT (OR BSP	THREAD	O SIZE	EQUIV
TIP PART	TIP COLOR	SPRAY ANGLE	5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	AVAIL QC	AVAIL STD	1/8"	1/4"	3/8"	1/2"	ORIFICE DIA.
UNI1550	Pink	15	1.77	2.50	3.06	3.54	4.33	5.00	6.12	•				•	•	0.172
UNI3003	Black	30	0.11	0.15	0.18	0.21	0.26	0.30	0.37	•		•	•	•	•	0.043
UNI3010	Brown	30	0.35	0.50	0.61	0.71	0.87	1.00	1.23	•		•	•	•	•	0.068
UNI3015	Lt Blue	30	0.53	0.75	0.92	1.06	1.30	1.50	1.84	•		•	•	•	•	0.094
UNI3020	Dk Green	30	0.71	1.00	1.22	1.41	1.73	2.00	2.45	•		•	•	•	•	0.109
UNI3025	Grey	30	0.89	1.25	1.53	1.77	2.17	2.50	3.06	•		•	•	•	•	0.125
UNI3030	Purple	30	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•		•	•	•	•	0.141
UNI3040	Black	30	1.41	2.00	2.45	2.83	3.46	4.00	4.90		•					0.156
UNI3080	Lt Green	30	2.83	4.00	4.90	5.66	6.93	8.00	9.80	•		•	•	•	•	0.219
UNI3090	Blue	30	3.18	4.50	5.51	6.36	7.79	9.00	11.02	•		•	•	•	•	0.234
UNI30100	Lt Green	30	3.54	5.00	6.12	7.07	8.66	10.00	12.25	•	•	•	•	•	•	0.250
UNI30120	Pink	30	4.24	6.00	7.35	8.48	10.39	12.00	14.69	•		•	•	•	•	0.266
UNI4020	Turquoise	40	0.71	1.00	1.22	1.41	1.73	2.00	2.45		•					0.109
UNI4050	Dk Green	40	1.77	2.50	3.06	3.54	4.33	5.00	6.12	•	•	•	•	•	•	0.172
UNI5003	Yellow	50	0.11	0.15	0.18	0.21	0.26	0.30	0.37	•		•	•	•	•	0.043
UNI5015	Dk Blue	50	0.53	0.75	0.92	1.06	1.30	1.50	1.84	•		•	•	•	•	0.031
UNI5020	Lt. Green	50	0.71	1.00	1.22	1.41	1.73	2.00	2.45		•					0.109
UNI5025	Black	50	0.89	1.25	1.53	1.77	2.17	2.50	3.06	•		•	•	•	•	0.125
UNI5030	Blue	50	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•	•	٠	٠	•	•	0.141
UNI5040	Mauve	50	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•	•	•	•	•	•	0.156
UNI5050	Pink	50	1.77	2.50	3.06	3.54	4.33	5.00	6.12	•	•	٠	٠	•	•	0.172
UNI5060	Orange	50	2.12	3.00	3.68	4.24	5.20	6.00	7.35	•	•	•	•	•	•	0.186
UNI5070	Blue	50	2.47	3.50	4.29	4.95	6.05	7.00	8.57	•	•	•	•	•	•	0.203
UNI5080	Dk Green	50	2.83	4.00	4.90	5.66	6.93	8.00	9.80	•		•	•	•	•	0.219
UNI5090	Dk Green	50	3.18	4.50	5.51	6.36	7.79	9.00	11.02	•		•	٠	•	•	0.234
UNI50100	Grey	50	3.54	5.00	6.12	7.07	8.66	10.00	12.25	•	•	•	•	•	•	0.250
UNI50120	Red	50	4.24	6.00	7.35	8.48	10.39	12.00	14.69	•		•	•	•	•	0.266
UNI6520	Grey	65	0.71	1.00	1.22	1.41	1.73	2.00	2.45	•	•	•	•	•	•	0.109
UNI6530	Purple	65	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•	•	•	٠	•	•	0.141
UNI6540	Yellow	65	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•	•	•	•	•	•	0.156
UNI6550	Red	65	1.77	2.50	3.06	3.54	4.33	5.00	6.12	•	•	•	•	•	•	0.172
UNI6560	Green	65	2.12	3.00	3.68	4.24	5.20	6.00	7.35	•	•	•	•	•	•	0.186
UNI6570	Red	65	2.47	3.50	4.29	4.95	6.05	7.00	8.57	•		•	•	•	•	0.203
UNI65100	Lt Green	65	3.54	5.00	6.12	7.07	8.66 0.52	10.00 0.60	12.25	•	_	•	•	•	•	0.250
UNI8006 UNI8010	Lt. Green Black	80	0.21	0.30	0.37	0.42	0.52	1.00	0.73	•	•			•		0.062
UNI8020	Yellow	80 80	0.35 0.71	1.00	0.61 1.22	1.41	1.73	2.00	1.23 2.45		•					0.080
UNI8040	Beige	80	1.41	2.00	2.45	2.83	3.46	4.00	4.90						•	0.104
UNI8050	Dk. Green	80	1.77	2.50	3.06	3.54	4.33	5.00	6.12							0.130
UNI8060	Beige	80	2.12	3.00	3.68	4.24	5.20	6.00	7.35	-		-	-	-	-	0.172
UNI8070	Beige	80	2.12	3.50	4.29	4.24	6.05	7.00	8.57							0.100
UNI9503	Orange	95	0.11	0.15	0.18	0.21	0.05	0.30	0.37	•					•	0.203
UNI9520	Red	95	0.11	1.00	1.22	1.41	1.73	2.00	2.45	•				•	•	0.109
UNI9530	Grey	95	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•		•	•	•	•	0.109
UNI9510ex	Black	95	0.35	0.50	0.61	0.71	0.87	1.00	1.23	•				•	•	0.080
JNI9520ex	Red	95	0.71	1.00	1.22	1.41	1.73	2.00	2.45	•			•		•	0.109
JNI9530ex	Orange	95	1.06	1.50	1.84	2.12	2.60	3.00	3.67						•	0.141
UNI9540	Black	95	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•		•	•	•	•	0.156
UNI9550	Bronze	95	1.77	2.50	3.06	3.54	4.33	5.00	6.12							0.172
UNI9560	Dk Green	95	2.12	3.00	3.68	4.24	5.20	6.00	7.35		•					0.186
UNI11003	Teal	110	0.11	0.15	0.18	0.21	0.26	0.30	0.37	•					•	0.043
UNI11006	Orange	110	0.21	0.30	0.37	0.42	0.52	0.60	0.73	•					•	0.062
UNI11008	Yellow	110	0.28	0.40	0.49	0.57	0.69	0.80	0.98	•					•	0.072
UNI12006	Orange	120	0.21	0.30	0.37	0.42	0.52	0.60	0.73							0.062
UNI12010	Grey	120	0.35	0.50	0.61	0.71	0.87	1.00	1.23	•					•	0.080
UNI12070	Black	120	2.47	3.50	4.29	4.95	6.05	7.00	8.57	•					•	0.203

FULL JET

NOZZLE TIE	TID	TIP SPRAY		(CAPACIT	Y (US) GI	PM AT PS	SI .		A) / A II	A) / A II	NPT C	OR BSP	THREAD	O SIZE	EQUIV
TIP PART #	COLOR	ANGLE	5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	AVAIL QC	AVAIL STD	1/8"	1/4"	3/8"	1/2"	ORIFICE DIA.
UNI0005	Grey	0	0.18	0.25	0.31	0.35	0.43	0.50	0.61	•	•	•	•	•	•	0.057
UNI0015	Orange	0	0.53	0.75	0.92	1.06	1.30	1.50	1.84	•	•	•	•	•	•	0.094
UNI0020	Dk Grey	0	0.71	1.00	1.22	1.41	1.73	2.00	2.45	•	•	•	•	•	•	0.109
UNI0030	Dk Green	0	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•	•	•	•	•	•	0.141
UNI0040	Yellow	0	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•	•	•	•	•	•	0.156
UNI0050	Blue	0	1.77	2.50	3.06	3.54	4.33	5.00	6.12	•	•	•	•	•	•	0.172
UNI0060	Grey	0	2.12	3.00	3.68	4.24	5.20	6.00	7.35	•	•	•	•	•	•	0.186
UNI0070	Grey	0	2.47	3.50	4.29	4.95	6.05	7.00	8.57	•	•	•	•	•	•	0.203
UNI0080	Dk Green	0	2.83	4.00	4.90	5.66	6.93	8.00	9.80	•	•	•	•	•	•	0.219
UNI0090	Lt Green	0	3.18	4.50	5.51	6.36	7.79	9.00	11.02	•	•	•	•	•	•	0.234
UNI00100	Orange	0	3.54	5.00	6.12	7.07	8.66	10.00	12.25	•	•	•	•	•	•	0.250
UNI00150	White	0	5.30	7.50	9.19	10.61	13.00	15.00	18.37	•	•	•	•	•	•	0.285
UNI00200	Dk Grey	0	7.07	10.00	12.25	14.14	17.32	20.00	24.50	•	•	•	•	•	•	0.344

Custom Flow Rate and Spray Angle available upon request

FULL CONE



NOZZLE	TID	CDDAY			CAPACIT	Y (US) GI	PM AT PS	SI		A) / A II	A) / A II	NPT (OR BSP	THREAD	SIZE	LGOIV
TIP PART #	TIP COLOR	SPRAY ANGLE	5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	AVAIL QC	AVAIL STD	1/8"	1/4"	3/8"	1/2"	ORIFICE DIA.
UNI03FC	Black	60	0.21	0.30	0.37	0.42	0.52	0.60	0.73	•	•	•	•	•	•	0.043
UNI05FC	Red	60	0.35	0.50	0.61	0.71	0.87	1.00	1.23	•		•	•	•	•	0.057
UNI09FC	Lt Green	60	0.64	0.90	1.10	1.27	1.56	1.80	2.20	•		•	•	•	•	0.080
UNI12FC	Pink	60	0.85	1.20	1.47	1.70	2.08	2.40	2.94	•	•	•	•	•	•	0.085
UNI15FC	Purple	60	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•		•	•	•	•	0.094
UNI16FC	Blue	40	1.13	1.60	1.96	2.26	2.77	3.20	3.92		•					0.098
UNI17FC	Yellow	80	1.20	1.70	2.22	2.40	2.90	3.50	4.16		•					0.102
UNI25FC	Red	40	1.77	2.50	3.06	3.54	4.33	5.00	6.12		•					0.125
UNI27FC	Pink	45	1.91	2.70	3.31	3.83	4.68	5.40	6.61		•					0.130
UNI28FC	Red	60	1.98	2.80	3.43	3.96	4.85	5.60	6.86	•	•	•	•	•	•	0.132
UNI29FC	Dk Green	65	2.05	2.90	3.55	4.10	5.02	5.80	7.50		•					0.139
UNI30FC	Teal	55	2.12	3.00	3.68	4.24	5.20	6.00	7.35		•					0.141
UNI35FC	Blue	60	2.47	3.50	4.29	4.95	6.06	7.00	8.57		•					0.148
UNI40FC	Blue	60	2.80	4.00	4.90	5.70	6.90	8.00	9.80		•					0.156
UNI50FC	Black	50	3.54	5.00	6.12	7.07	8.66	10.00	12.25		•					0.172
UNI52FC	Pink	65	3.68	5.20	6.37	7.35	9.00	10.40	12.73	•	•	•	•	•	•	0.178
UNI53FC	Black	65	3.75	5.30	6.49	7.49	9.10	10.60	12.98		•					0.180

Custom Flow Rate and Spray Angle available upon request

HOLLOW CONE



NOZZLE	TID	CDDAY			CAPACIT	Y (US) GF	PM AT PS	il .		A) / A II	A) / A I	NPT C	OR BSP	THREAD	SIZE	EQUIV
TIP PART #	TIP COLOR	SPRAY ANGLE	5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	AVAIL QC	AVAIL STD	1/8"	1/4"	3/8"	1/2"	ORIFICE DIA.
UNI08HC	Blue	90	0.57	0.80	0.98	1.13	1.39	1.60	1.96		•					0.072
UNI15HC	Teal	60	1.06	1.50	1.84	2.12	2.60	3.00	3.67	•	•	•	•	•	•	0.094
UNI20HC	Orange	65	1.41	2.00	2.45	2.83	3.46	4.00	4.90		•					0.109
UNI25HC	Red	65	1.77	2.50	3.06	3.54	4.33	5.00	6.12		•					0.125
UNI28HC	Blue	65	1.98	2.80	3.43	3.96	4.85	5.60	6.86		•					0.132
UNI29HC	Dk Green	50	2.05	2.90	3.55	4.10	5.02	5.80	7.50	•	•	•	•	•	•	0.139
UNI30HC	Blue	50	2.12	3.00	3.68	4.24	5.20	6.00	7.35		•					0.141
UNI35HC	Blue	65	2.47	3.50	4.29	4.95	6.06	7.00	8.57		•					0.148
UNI50HC	Black	65	3.54	5.00	6.12	7.07	8.66	10.00	12.25	•	•	•	•	•	•	0.172
UNI3007HC	Teal	30	0.49	0.70	0.86	1.00	1.21	1.40	1.71	•		•	•	•	•	0.068
UNI3011HC	Dk Green	30	0.78	1.10	1.35	1.56	1.90	2.20	2.69	•		•	•	•	•	0.083
UNI3016HC	Blue	30	1.13	1.60	1.96	2.26	2.77	3.20	3.92	•		•	•	•	•	0.098
UNI3020HC	Red	30	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•		•	•	•	•	0.109
UNI3050HC	Grey	30	3.54	5.00	6.12	7.07	8.66	10.00	12.25	•		•	•	•	•	0.172
UNI5007HC	Beige	50	0.49	0.70	0.86	1.00	1.21	1.40	1.71	•		•	•	•	•	0.068
UNI5008HC	Orange	50	0.57	0.80	0.98	1.13	1.39	1.60	1.96	•		•	•	•	•	0.072
UNI5016HC	Mauve	50	1.13	1.60	1.96	2.26	2.77	3.20	3.92	•		•	•	•	•	0.098
UNI5020HC	Orange	50	1.41	2.00	2.45	2.83	3.46	4.00	4.90	•		•	•	•	•	0.109
UNI6018HC	Pink	60	1.27	1.80	2.20	2.54	3.12	3.60	4.41	•		•	•	•	•	0.101

Custom Flow Rate and Spray Angle available upon request

Nozzle Type

In general, Full Cone Nozzles have the largest droplets, followed by Flat Spray Nozzles and Hollow Cone Nozzles. For a better description of the characteristics of various types of spray nozzles, refer to pages 2 and 10-12.

Flow Rate

If you select a nozzle with a greater flow rate at the same pressure, droplet size increases. For example, a UNI 6550 Flat Spray Nozzle at 40 psi and a flow rate of 5.0 gpm will have a larger droplet size than a UNI 6540 Flat Spray Nozzle at 40 psi, which has a flow rate of only 4.0 gpm.

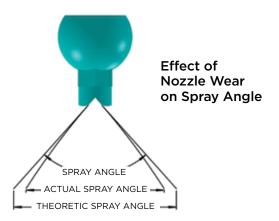
Pressure

As the pressure on any given nozzle increases, droplet size will decrease. For example, the same UNI 6550 Flat Spray Nozzle has a larger droplet size at 40 psi pressure than it does at 50 psi.

Of the factors affecting flow rate, the most influential is pressure. Theoretically, flow rate varies in correlation with the square root of the pressure, neglecting all other factors. To compute pressures and flow rates other than those on pages 11, 13, and 14 the following formulas may be used:

$$Q2 = Q1\sqrt{\frac{P2}{P1}} \qquad P2 = P1\left(\frac{Q2}{Q1}\right)^2$$

Q1 and P1 are the known flow rate and pressure.
Q2 is the resulting flow rate from the new pressure P2.
P2 is the resulting pressure from the new flow rate Q2.



Temperature

Changing temperature can alter a liquid's viscosity, surface tension, and specific gravity, and this in turn changes nozzle performance.

Viscosity generally changes significantly with temperature. As the temperature drops, viscosity increases, which increases the energy required to form a spray, and also increases droplet size. The performance data supplied on pages 11, 14 and 15 is based on spraying water at room temperature. The lower the specific gravity of a fluid, the higher the flow rate through the nozzle at the same pressure, as shown in the following equation:

(Q water)
$$x \frac{1}{\sqrt{SG \text{ fluid}}} = (Q \text{ fluid})$$

For example, the flow rate of a fluid with a specific gravity of 1.3 would be about 87% of the flow rate of water.

(4 gpm water) x
$$\frac{1}{\sqrt{1.3}}$$
 = (3.5 gpm fluid)

Increasing surface tension increases the effort required to atomize the spray, which increases the droplet size and reduces the spray angle.

Spray Angle

Increasing the spray angle will reduce the droplet size. For example, a UNI 6550 nozzle with a 65° spray angle and 5 gpm at 40 psi will have a finer droplet size than a UNI 5050 nozzle with a 50° spray angle at the same pressure and flow.

At any given pressure and flow, the impact force or impingement of a spray will be increased by a narrower spray angle and, depending on your application, should be taken into account.

Nozzle wear can also affect the spray angle. As nozzle wear increases, the orifice gets bigger, and flow rate increases, which in turn can result in a loss of system pressure. This loss of spray pressure can often be recognized by a narrowing of the spray pattern or by a general loss of uniformity in the spray pattern.



QUIK-DISCONNECT SELECTION GUIDE

- ◄ Cam-Operated Couplings provide easy access for the cleaning and installation of spray risers.
- ◆ They adapt to standard steel or non-corrosive risers and headers in sizes from 1" (25 mm) to
 4" (100 mm) and are available in Poly-Glass or PVDF.

To Make Up a Quik-Disconnect Junction

- ◄ You must have one female connector assembly (Part B, C, or D) which incorporates
 the cam-lock arms, and one male connector (Part A, E, or F) which is shaped to precisely fit
 into the socket on the mating part and be held securely against the sealing gasket by the
 unique cam-lock mechanism.
- The female connectors connect to your pipe system by an external NPT thread (Part B), an internal NPT thread (Part D) or a hose barb (Part C). The male connectors likewise connect to your pipes by an internal NPT thread (Part A), an external thread (Part F), or a hose barb (Part E). And, to cap off any section which terminates with a female connector, use the available plug (Part DP). The Quik-Disconnects can be combined with our Clamp-On Nozzles and Nozzle Adapters, Quik-Lock Formed Risers and Headers, Quik-Release Riser Supports, and Ball Valves to make up complete spray header systems that provide unparalleled ease of installation and use.
- To increase the value of your investment in Uni-Spray Quik-Disconnect couplings, we provide a complete line of replacement parts for the assemblies. It is no longer necessary to discard an entire assembly just because one part is broken. Refer to the following pages for complete information and specifications for the full Quik-Disconnect line.

Available Sizes

All Quik-Disconnect plastic components are colour-coded for convenient identification, and are available to fit the following pipe sizes:

(Inch	ı / mm)	Thread Type	Poly-Glass	PVDF
1"	25 mm	NPT	Blue	White
1 1/4"	32 mm	NPT	Red	White
1 1/2"	40 mm	NPT	Purple	White
2"	50 mm	NPT	Black	White
3"	75 mm	NPT	Black	White
4"	100 mm	NPT	Black	White

QUIK-DISCONNECT COUPLINGS AND ADAPTERS

Note: 1 1/4" through 1 1/2" Parts B, C, D and DC assemblies will be shipped with Ny-Glass Arms unless Stainless Steel Arms are requested. Assemblies are supplied complete with retaining clips.



Uni-Spray has been developing innovative products for industry since 1987. This continues to be a focus for the company's future. Please contact us with any new concepts.



Quik-Disconnect ORDERING INSTRUCTIONS

How To Order A Quik-Disconnect Coupler or Adapter:

The complete Part Number tells us exactly what assembly you want.

For example, let's say that you want to order a cam-operated Part D: Coupler x FT (Female Thread) molded in Poly-Glass, to fit on a 3" pipe:

STEP 1

The Part Number begins with UNI, followed by the pipe size:

UNI 100 = 1" pipe

UNI 125 = 1 1/4" pipe

UNI 150 = 1 1/2 " pipe

UNI 200 = 2" pipe

UNI 300 = 3" pipe

UNI 400 = 4" pipe

So in our example, we would have so far

UNI 300

STEP 2

Identify the Style of component as shown on page 18, using our Part Code, which in this example is Part D, and we have

UNI 300 D

STEP 3

Finish the Part Number with the Material Code, as follows:

PG = Poly-Glass (excellent heat and chemical resistance) K = PVDF (excellent heat and superior chemical resistance)

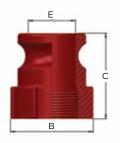
So in our example, we end up with

UNI 300 DPG



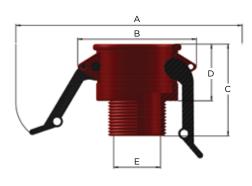


QUIK-DISCONNECT DIMENSIONS



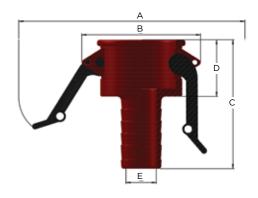
PART A: ADAPTER x FT

SIZE CODE	100	125	150	200	300	400
Size of Thread	1"	1 1/4"	1 1/2"	2"	3"	4"
C Overall Length	1 7/8"	2 3/4"	2 3/4"	2 15/16"	2 15/16"	3 3/4"
E Minimum I.D.	13/16"	1 7/16"	1 7/16"	1 11/16"	2 13/16"	3 3/4"
B Lug Extension	1 3/4"	2 1/2"	2 1/2"	3 1/16"	4 3/16"	5 1/4"



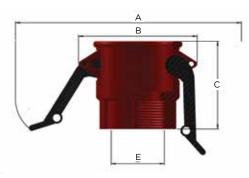
PART B: COUPLER x MT

SIZE CODE	100	125	150	200	300	400
Size of Thread	1"	1 1/4"	1 1/2"	2"	3"	4"
A O.D with Arms Out	4 3/4"	8 3/16"	8 3/16"	8 11/16"	9 15/16"	11 1/16"
B Maximum O.D.	2 1/2"	3 3/4"	3 3/4"	4 1/16"	5"	6 9/16"
C Overall Length	2 1/2"	2 3/4"	2 3/4"	3 1/4"	3 5/16"	3 15/16"
D Exposed Length	1 9/16"	1 7/8"	1 7/8"	2 1/8"	2 3/8"	2 9/16"
E Minimum I.D.	7/8"	1 5/16"	1 1/2"	1 7/8"	2 7/8"	3 7/8"



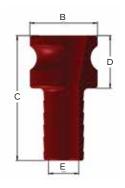
PART C: COUPLER x HOSE BARB

SIZE CODE	100	125	150	200	300	400
Size of Hose Barb	1 "	1 1/4"	1 1/2"	2 "	3"	4"
A O.D with Arms Out	4 3/4"	8 3/16"	8 3/16"	8 11/16"	9 15/16"	11 1/16"
B Maximum O.D.	2 1/2"	3 3/4"	3 3/4"	4 1/16"	5"	6 9/16"
C Overall Length	3 13/16"	4 1/4"	4 1/4"	4 15/16"	6 5/16"	6 1/4"
D Exposed Length	1 9/16"	1 7/8"	1 7/8"	2 1/8"	2 3/8"	2 9/16"
E Minimum I.D.	13/16"	15/16"	1 3/16"	1 5/8"	2 9/16"	3 1/2"



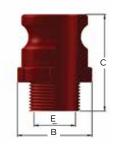
PART D: COUPLER x FT

SIZE CODE	100	125	150	200	300	400
Size of Thread	1"	1 1/4"	1 1/2"	2"	3"	4"
A O.D with Arms Out	4 3/4"	8 3/16"	8 3/16"	8 11/16"	9 15/16"	11 1/16"
B Maximum O.D.	2 1/2"	3 3/4"	3 3/4"	4 1/16"	5"	6 9/16"
C Overall Length	2 7/16"	2 3/4"	2 3/4"	3 1/4"	3 1/4"	4"
E Minimum I.D.	1"	1 1/2"	1 5/8"	1 11/16"	2 7/8"	3 7/8"



PART E: ADAPTER x HOSE BARB

SIZE CODE	100	125	150	200	300	400
Size of Hose Barb	1"	1 1/4"	1 1/2"	2"	3"	4"
B Maximum O.D.	2 1/2"	3 3/4"	3 3/4"	4 1/16"	5"	6 9/16"
C Overall Length	3 13/16"	4 1/4"	4 1/4"	4 15/16"	6 5/16"	6 1/4"
D Exposed Length	1 9/16"	1 7/8"	1 7/8"	2 1/8"	2 3/8"	2 9/16"
E Minimum I.D.	13/16"	15/16"	1 3/16"	1 5/8"	2 9/16"	3 1/2"



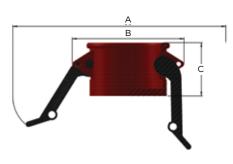
PART F: ADAPTER x MT

SIZE CODE	100	125	150	200	300	400
Size of Thread	1"	1 1/4"	1 1/2"	2"	3"	4"
C Overall Length	2 11/16"	3 1/8"	3 1/8"	3 1/2"	3 15/16"	4 9/16"
D Exposed Length	1 7/8"	2 1/8"	2 1/8"	2 5/16"	2 3/4"	3 3/16"
E Minimum I.D.	7/8"	1 5/16"	1 7/16"	1 7/8"	2 3/4"	3 7/8"
F Lug Extension	1 11/16"	2 9/16"	2 9/16"	3 1/16"	4 3/16"	5 3/16"



PART DP: PLUG

SIZE CODE	100	125	150	200	300	400
Nominal Pipe Size	1″	1 1/4"	1 1/2"	2"	3"	4"
C Overall Length	1 3/8"	1 7/16"	1 7/16"	1 15/16"	2 1/16"	2 3/16"
B Maximum O.D.	1 7/16"	2 1/8"	2 1/8"	2 1/2"	3 5/8"	4 11/16"
F Lug Extension	3/8"	7/16"	7/16"	3/8"	1/2"	1/2"



PART DC: CAP

SIZE CODE	100	125	150	200	300	400
Nominal Pipe Size	1"	1 1/4"	1 1/2"	2"	3"	4"
A O.D. with Arms Out	4 3/4"	8 3/16"	8 3/16"	8 11/16"	9 15/16"	11 1/16"
B Maximum O.D.	2 1/2"	3 3/4"	3 3/4"	4 1/16"	5"	6 9/16"
C Overall Length	1 5/8"	1 15/16"	1 15/16"	2 3/16"	2 3/8"	2 1/2"
F Lug Extension	3/8"	3/8"	3/8"	5/16"	5/8"	9/16"

QUIK-DISCONNECT REPLACEMENT PARTS

TO ORDER SPARE PARTS FOR YOUR ASSEMBLIES, USE THE PARTS GUIDE BELOW

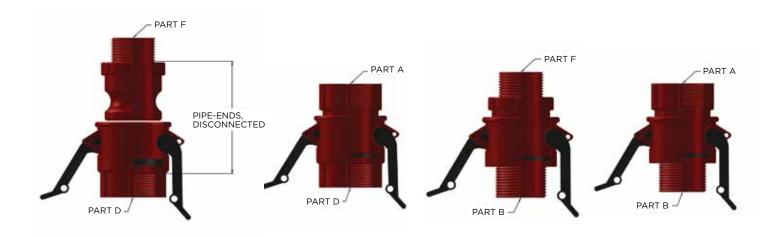
PART C BODY: KYNAR on POLY-GLASS UNI 100 CPG-B UNI 125 CFG-B UNI 150 CPG-B UNI 100 CPG-B UNI 100 CPG-B UNI 100 CFG-B UNI 125 CFG-B UNI 150 CFG-B UNI 200 CFG-B UNI 300 CPG-B UNI 300 CPG-B UNI 300 CPG-B UNI 300 CPG-B UNI 300 BPG-B UNI 100 BFG-B UNI 100 BFG-B UNI 125 BFG-B UNI 150 BFG-B UNI 100 BFG-B UNI 100 DCFG-B UNI 10	COMPONENT	1″ / 25 мм	1 1/4" / 32 мм	1 1/2" / 40 мм	2" / 50 мм	3″ / 75 мм	4" / 100 мм	
PART C BODY: KYNAR on POLY-GLASS UNI 100 CPG-B UNI 125 CFG-B UNI 150 CPG-B UNI 120 CFG-B UNI 200 CPG-B UNI 300 CP	PART D BODY: KYNAR or	POLY-GLASS						
PART C BODY: KYNAR on POLY-GLASS UNI 100 CPG-B UNI 125 CPG-B UNI 150 CPG-B UNI 150 CPG-B UNI 200 CPG-B UNI 200 CPG-B UNI 300 CPG-B UNI 400 CPG UNI 100 BPG-B UNI 100 BPG-B UNI 100 BPG-B UNI 125 BPG-B UNI 150 BPG-B UNI 100 BPG-B UNI 100 BPG-B UNI 100 BPG-B UNI 125 BPG-B UNI 150 BPG-B UNI 100 BPG-		UNI 100 DPG-B	UNI 125 DPG-B	UNI 150 DPG-B	UNI 200 DPG-B	UNI 300 DPG-B	UNI 400 DPG-B	
UNI 100 CPG-B UNI 125 CFG-B UNI 125 CFG-B UNI 125 CFG-B UNI 120 CFG-B UN		UNI 100 DK-B	UNI 125 DK-B	UNI 150 DK-B	UNI 200 DK-B	(N/A)	(N/A)	
UNI 100 CK-B	PART C BODY: KYNAR or	POLY-GLASS						
PART B BODY: KYNAR on POLY-GLASS UNI 100 BPG-B UNI 125 BPG-B UNI 150 BPG-B UNI 200 BP		UNI 100 CPG-B	UNI 125 CPG-B	UNI 150 CPG-B	UNI 200 CPG-B	UNI 300 CPG-B	UNI 400 CPG-B	
UNI 100 BPG-B UNI 125 BPG-B UNI 125 BPG-B UNI 125 BPG-B UNI 1200 BPG-B UNI 200 BPG-B UNI 300 BPG-B UNI 200 BPG-B UNI 200 BPG-B UNI 300 DCPG-B UNI 400 DCP UNI 150 DCR-B UNI 200 DCR-B UNI 300 DCPG-B UNI 400 DCP UNI 400 DCPG-B UNI 400 DCPG-	T	UNI 100 CK-B	UNI 125 CK-B	UNI 150 CK-B	UNI 200 CK-B	(N/A)	(n/a)	
UNI 100 BK-B	PART B BODY: KYNAR or	POLY-GLASS						
PART DC BODY: KYNAR on POLY-GLASS UNI 100 DCPG-B UNI 125 DCPG-B UNI 150 DCPG-B UNI 150 DCPG-B UNI 200 DCPG-B UNI 200 DCPG-B UNI 200 DCPG-B UNI 300 DCPG-B UNI 400 DCP UNI 100 DCPG-B UNI 150 DCR-B UNI 200 DCR-B UN		UNI 100 BPG-B	UNI 125 BPG-B	UNI 150 BPG-B	UNI 200 BPG-B	UNI 300 BPG-B	UNI 400 BPG-B	
UNI 100 DCPG-B UNI 100 DCPG-B UNI 125 DCPG-B UNI 150 DCPG-B UNI 200 DCPG-B UNI 300 DCPG-B UNI 30		UNI 100 BK-B	UNI 125 BK-B	UNI 150 BK-B	UNI 200 BK-B	(N/A)	(N/A)	
UNI 100 DCK-B UNI 25 DCK-B UNI 150 DCK-B UNI 200 DCK-B (N/A) (N/A) GASKET, EPDM OR VITON UNI G 1 UNI G 2 UNI G 3 UNI G 4 UNI G 5V UNI G 1V UNI G 2V UNI G 3V UNI G 4V UNI G 5V CAM-LOCK ARM, NY-GLASS OR KYNAR UNI AP 1 UNI AP 1 UNI AP 2 (N/A) UNI KY 3 UNI KY 3 UNI KY 3 (N/A) CAM-LOCK ARM 302 SS UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI R 1 (RING, 302 SS) UNI C 1 UNI C 2K UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4	PART DC BODY: KYNAR o	R POLY-GLASS						
GASKET, EPDM OR VITON UNI G 1 UNI G 2 UNI G 3 UNI G 4 UNI G 5V CAM-LOCK ARM, NY-GLASS OR KYNAR UNI AP 1 UNI AP 1 UNI AP 2 UNI KY 3 UNI KY 3 UNI KY 3 UNI KY 3 UNI AS 4 CAM-LOCK ARM 302 SS UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 2KS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI C 1SS UNI C 2SS UNI C 3SS		UNI 100 DCPG-B	UNI 125 DCPG-B	UNI 150 DCPG-B	UNI 200 DCPG-B	UNI 300 DCPG-B	UNI 400 DCPG-B	
UNI G 1 UNI G 2 UNI G 3 UNI G 4 UNI G 5 UNI G 4V UNI G 5V CAM-LOCK ARM, NY-GLASS OR KYNAR UNI AP 1 UNI AP 1 UNI AP 3 UNI KY 3 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI C 2SS UNI C 3SS UNI C 3SS UNI C 3SS			UNI125 DCK-B	UNI 150 DCK-B	UNI 200 DCK-B	(N/A)	(n/a)	
UNI G 1V UNI G 2V UNI G 3V UNI G 4V UNI G 5V CAM-LOCK ARM, NY-GLASS OR KYNAR UNI AP 1 UNI AP 1 UNI AP 3 UNI KY 3 UNI KY 3 UNI KY 3 UNI KY 3 UNI AS 3 UNI AS 4 CAM-LOCK ARM 302 SS UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3 UNI C 3K UNI C 3K UNI C 3KS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2SS UNI C 3SS	GASKET, EPDM OR VITO							
CAM-LOCK ARM, NY-GLASS OR KYNAR UNI AP 1 UNI AP 1 UNI AP 2 (N/A) UNI KY 3 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4								
UNI AP 1 UNI AP 1 UNI AP 2 UNI KY 3 UNI AS 4 UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI C 1SS UNI C 2SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS UNI C 3SS		UNI G 1V	UNI	G 2V	UNI G 3V	UNI G 4V	UNI G 5V	
UNI KY 3 UNI KY 3 UNI KY 3 UNI KY 3 (N/A) CAM-LOCK ARM 302 SS UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 1K UNI C 2K UNI C 3SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI C 1SS UNI C 2SS UNI C 3SS UNI P 3 UNI P 4	CAM-LOCK ARM, NY-GLA	SS OR KYNAR						
CAM-LOCK ARM 302 SS UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI AP 1	UNI	AP1	UNI AP 2	(N/A)		
UNI AS 1 UNI AS 2 UNI AS 3 UNI AS 4 SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 1K UNI C 2K UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI KY 3	UNI	KY 3	UNI KY 3	(n,	/A)	
SPRING CLIP, 302 SS, NY-GLASS OR KYNAR UNI C 1 UNI C 2 UNI C 3 UNI C 3K UNI C 1K UNI C 2K UNI C 3K UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4	CAM-LOCK ARM 302 SS							
UNI C 1 UNI C 2 UNI C 3 UNI R 1 (RING, 302 SS) UNI C 1K UNI C 2K UNI C 3K UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI AS 1	UNI	AS 2	UNI AS 3	UNI	AS 4	
UNI C 1K	SPRING CLIP, 302 SS, NY	-GLASS OR KYNAR						
UNI C 1SS UNI C 2SS UNI C 3SS PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI C 1	UNI	C 2	UNI C 3	UNI R 1 (R	ING, 302 SS)	
PIN, 302 SS, NY-GLASS OR KYNAR UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI C 1K		C 2K	UNI C 3K			
UNI P 1 UNI P 2 UNI P 3 UNI P 4		UNI C 1SS			UNI C 3SS			
UNI P 1 UNI P 2 UNI P 3 UNI P 4	PIN. 302 SS. NY-GLASS O	IN 302 SS NY-GLASS OF KYNAP						
	I III, TEL GO, III GENGO G			IP2	UNI P 3	P 4		
UNI P 1K UNI P 2K UNI P 3K		UNI P 1K			UNI P 3K	5,		
UNI P 1SS UNI P 2SS UNI P 3SS								

To order complete assemblies, use the ordering instructions on page 19

QUIK-DISCONNECT PIPE-END SEPARATION DISTANCES

Pipe-End Separation is the distance between the pipe ends being connected by means of the QUIK-DISCONNECT couplings.

The separation distance is given both as the distance when the couplers are engaged, and as the minimum distance required for disconnecting, assuming complete pipe thread engagement.



PIPE SIZE		D to F	D to A	B to F	B to A
1"	CONNECTED DISCONNECTED	2.320" 3.500"	1.460" 2.640"	5.000" 6.250"	4.250" 5.500"
1 1/4"	CONNECTED DISCONNECTED	2.680" 4.060"	2.240" 3.660"	4.625" 5.875"	4.250" 5.625"
1 1/2"	CONNECTED DISCONNECTED	2.440" 3.860"	1.970" 3.390"	4.625" 5.875"	4.250" 5.625"
2"	CONNECTED DISCONNECTED	2.720" 4.450"	2.280" 4.020"	5.625" 7.250"	5.000" 6.750"
3"	CONNECTED DISCONNECTED	5.375" 7.000"	5.875" 7.250"	5.000" 6.500"	5.750" 7.250"
4"	CONNECTED DISCONNECTED	7.125" 8.875"	7.125" 8.875"	7.125" 8.875"	7.500" 9.250"

TO ORDER COMPLETE ASSEMBLIES, USE THE ORDERING INSTRUCTIONS ON PAGE 21.





THE UNI-SPRAY PIPE SADDLE SELECTION GUIDE

- ◄ High-quality injection-moulded pipe fitting which can be installed on an existing pipe in minutes.
- Made of polypropylene and highly resistant to a wide range of caustic and acid-based chemicals.
- ◆ Operate effectively at pressures up to 10.3 bar (150 psi) in temperatures from 0° to 130°C (32° to 266°F).
- ◆ The Uni-Spray Pipe Saddle is well suited for use on I.P.S. outer dimension PVC, CPVC, stainless steel and black iron pipe.
- ◆ The Saddle will fit Schedule 40, Schedule 80, and SDR 13.5 through 64 pipe. Moreover, it also fits a variety of polyethylene and polybutylene pipe applications. These Saddles are available in 1" (25 mm) through 8" (150 mm) mainline pipe sizes, with a wide assortment of take-off sizes.
- Pipe Saddles eliminate the high cost of back welding female couplers to the thermoplastic, steel, or iron pipes, and are completely compatible with our Uni-Spray Quik-Disconnect couplers.





Available Sizes

Refer to the chart below. Available combinations are indicated with an X.

		DRILL SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"
SIZE	1/2"	3/8"	Х	Х	X						
	3/4"	7/8"	X	X	X	X					
	1"	1"		Х	X	X	X	X	X	X	
TAKE-OFF	1 1/4"	1 3/8"				Х	X	X	X	Х	Х
Ā	1 1/2"	1 5/8"				×	×	×	×	X	Х
	2"	2"					X	×	×	X	X

PIPE SADDLE INSTALLATION INSTRUCTIONS

Product Advantages:

- ◆ The use of Pipe Saddles eliminates the higher cost of back welding female couplers to thermoplastic pipe and simplifies on-site installation and repairs.
- Raw material is polypropylene and resistant to a wide range of caustic and acid-based chemicals. Operating temperature range is approximately 0°to 130°C (32°to 266°F).
- ✓ Working pressure: Operate effectively at pressures up to 10.3 bar (150 psi) in temperatures from 0° to 130°C (32° to 266°F).
- ◀ Compression seal o-ring ensures sealing.



To Assemble

- 1. Place the o-ring into saddle.
- 2. Position the saddle on the pipe.
- 3. Install the lower half and fasteners and partially tighten the bolts.
- 4. Check the saddle position and level, adjust if necessary, and then tighten the bolts evenly.
- 5. Drill a hole in the pipe through the saddle take-off.
- 6. Install the connecting pipe or Quik-Disconnect* fitting.

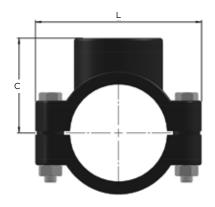


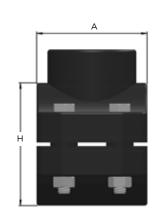


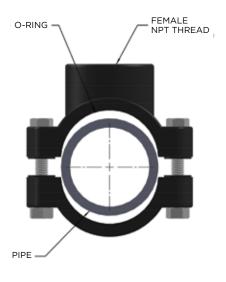




PIPE SADDLE DIMENSIONS







PART NO.	PIPE SIZE	TAKE-OFF	L	н	С	Α
100SAD050	1"	1/2"	3.110	1.654	1.575	1.929
100SAD075	1"	3/4"	3.110	1.654	1.575	1.929
125SAD050	1 1/4"	1/2"	3.386	2.047	1.772	2.441
125SAD075	1 1/4"	3/4"	3.386	2.047	1.772	2.441
125SAD100	1 1/4"	1"	3.386	2.047	1.772	2.441
150SAD050	1 1/2"	1/2"	3.386	2.441	1.969	2.441
150SAD075	1 1/2"	3/4"	3.386	2.441	1.969	2.441
150SAD100	1 1/2"	1"	3.386	2.441	1.969	2.441
	, , _	·				
200SAD075	2"	3/4"	3.976	3.031	2.283	2.441
200SAD100	2"	1"	3.976	3.031	2.283	2.441
200SAD125	2"	1 1/4"	3.976	2.953	2.283	2.441
200SAD150	2"	1 1/2"	3.976	2.953	2.283	2.441
250SAD100	2 1/2"	1"	4.567	3.504	2.598	3.031
250SAD125	2 1/2"	1 1/4"	4.567	3.504	2.598	3.031
250SAD150	2 1/2"	1 1/2"	4.567	3.504	2.598	3.031
300SAD100	3"	1"	5.197	4.173	3.031	3.425
300SAD125	3"	1 1/4"	5.197	4.173	3.031	3.425
300SAD150	3"	1 1/2"	5.197	4.173	3.031	3.425
300SAD200	3"	2"	5.197	4.173	3.031	3.425
400SAD100	4"	1"	6.772	5.512	3.701	3.976
400SAD125	4"	1 1/4"	6.772	5.512	3.701	3.976
400SAD150	4"	1 1/2"	6.772	5.512	3.701	3.976
400SAD200	4"	2"	6.772	5.512	3.701	3.976
600615166	C"	4"	0.705	7550	F 6 6 6	0.015
600SAD100	6"	1"	9.325	7.550	5.260	6.615
600SAD125	6"	1 1/4"	9.325	7.550	5.260	6.615
600SAD150	6"	1 1/2"	9.325	7.550	5.260	6.615
600SAD200	6"	2"	9.325	7.550	5.260	6.615

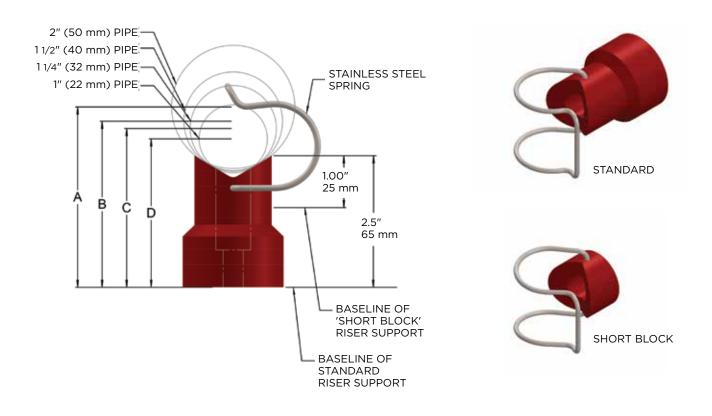


Quik-Release Riser Support ORDERING INSTRUCTIONS

Quik-Release Riser Support dimensions are shown for 1'' (25 mm), 11/4'' (32 mm), (40 mm) and 2'' (50 mm) pipe risers.

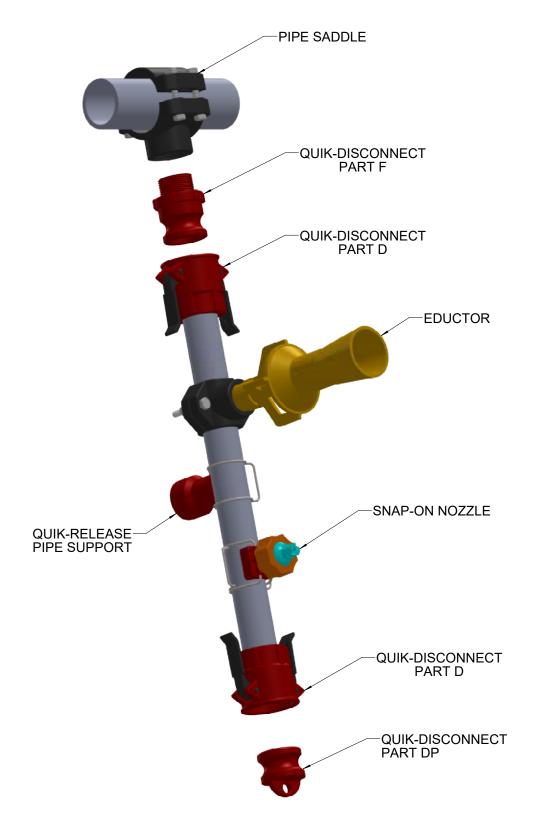
Note: For these sizes, the Riser Support Bodies are identical in size, but the Spring sizes vary. The Body colour denotes the Spring size.

1" (25 mm) = BLUE 1 1/4" (32 mm) = RED 1 1/2" (40 mm) = PURPLE 2" (50 mm) = GREEN



PIPE C/L TO WALL	A (2" Pipe)	B (1-1/2" Pipe)	C (1-1/4" Pipe)	D (1" Pipe)
RISER SUPPORT: STANDARD	3.500	3.250	3.125	2.950
PART NUMBER	QR200	QR150	QR125	QR100
RISER SUPPORT: SHORT BLOCK	2.000	1.750	1.625	1.450
PART NUMBER	QR200MINI	QR150MINI	QR125MINI	QR100MINI

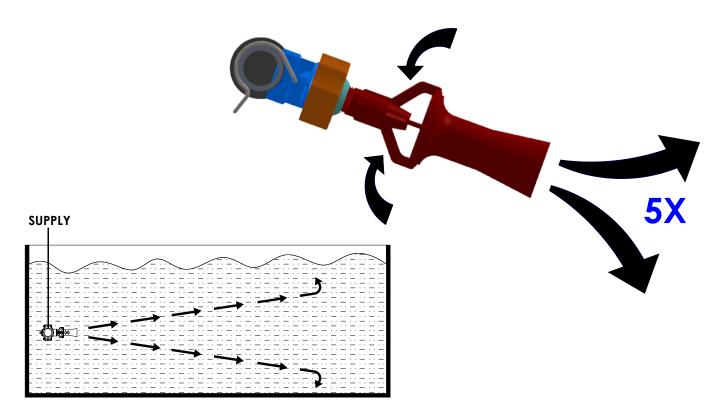
UNI-SPRAY QUIK-RELEASE NOZZLES, COUPLERS AND PIPE SYSTEMS FOR THE PRETREATMENT INDUSTRY.

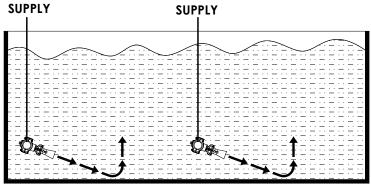


DESIGNED FOR YOUR APPLICATION



UNI-SPRAY TANK MIXING EDUCTOR CAPACITIES





OPERATING LIQUID FLOW (gpm)				Pressure	Differentia	l (psi)			
Size	10	15	20	25	30	35	40	45	50
1/4"	3.5	4.3	5.0	5.5	6.1	6.6	7.0	7.4	7.8
3/8"	7.5	9.3	10.7	11.9	13.1	14.1	15.1	16.0	18.9
1/2"	10.7	13.1	15.2	17.0	18.5	20.1	21.5	22.7	24.0
3/4"	14.1	17.3	20.0	22.4	24.5	26.5	28.3	30.0	31.6
1"	24.4	29.9	34.5	38.5	42.2	45.6	48.8	51.7	54.5
1 1/2"	35.1	43.0	49.7	55.6	61.0	65.8	70.3	74.6	78.6

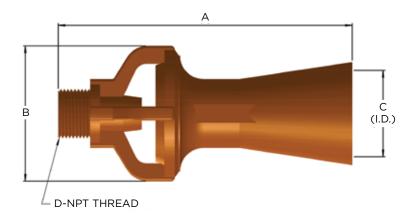
Note: The flow rate that is shown in the above chart is the motive or throughput of the eductor. The actual discharge from the eductor is 5 times the motive.

Example: 3/8" eductor @ 10 psi motive = 7.5 discharge; 5 x 7.5 = 37.5 gpm.

TME: TANK MIXING EDUCTORS

- Tank Mixing Eductors (TME's) enable small pumps to circulate large tanks. The suction produced by the venturi action of the eductor greatly amplifies the mixing ability of the pump. Solids in the tank are kept from settling by the velocity of the discharge plume. The eductors are placed on the tank to maintain critical velocity of the solid particles. Keeping the eductor at a slight downward angle can help maintain critical velocity on the tank floor.
- ▼ TMEs can be used in conjunction with Uni-Spray Saddles or Clip-On Nozzles for easy installation.
- Eductors are moulded of Glass-Reinforced Polypropylene, with a temperature range up to 130°C (266°F). They are also available in brass, stainless steel or Kynar. All Kynar eductors are coloured red.





DIMENSIONS (in inches)

PART NO.	COLOUR	ORIF SIZE	THREAD SIZE	Α	В	С	D
025 TMEEDU	Blue	0.185	1/4	2.74	1.26	0.71	1/4
038 TMEEDU	Yellow	0.29	3/8	4.49	2.11	1.22	3/8
050 TMEEDU	Purple	0.335	1/2	6.56	2.50	1.46	1/2
075 TMEEDU	Orange	0.40	3/4	6.28	2.93	1.63	3/4
100 TMEEDU	Grey	0.50	1	9.68	3.88	2.17	1
150 TMEEDU	Black	0.60	1 1/2	9.73	4.68	2.59	1 1/2



TME CAPACITIES

◆ The flow rates shown below are based upon water (SG 1.00) as the motive liquid. To adjust
the values for liquids with a different specific gravity, use the following formula:

[$\sqrt{1 \div SG}$ of actual motive liquid)] x Table Value = Flow Rate of actual motive liquid

- ◀ The pressure differential (ΔP) shown in the table is the ΔP across the TME, not the pump. The ΔP equals the motive inlet pressure (Pm) minus the discharge pressure (Pd).
- The discharge pressure is the static liquid pressure in the vessel, assuming the vessel is vented
 to the atmosphere (see formula below). If the vessel is pressurized, the Pd is that value plus
 the static liquid pressure.

((Liquid Height in feet) x SG) x 0.43 = Pd

 \blacktriangleleft For mixing applications, one psi of $\triangle P$ produces 6" of effective discharge plume length.

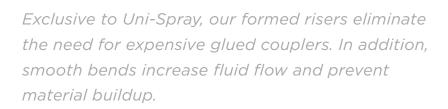


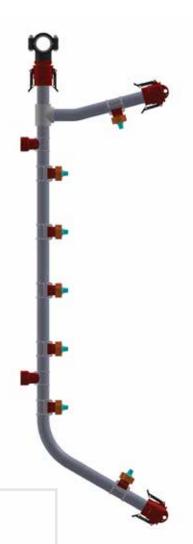




COMPLETE QUIK-DISCONNECT RISER ASSEMBLIES

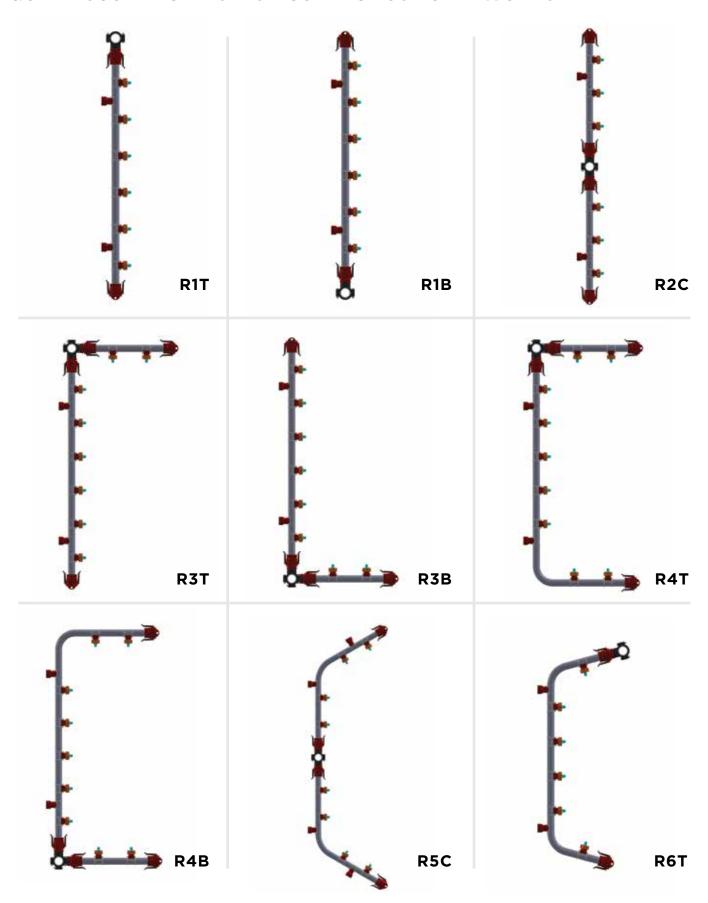
- Direct to you from Uni-Spray, made exactly to your specifications and ready to install.
- ✓ We offer a full range of our own exclusive Quik-Disconnect components in a full range of sizes, including premium-quality PVC, CPVC, PolyPro, Kynar and stainless steel pipe.
- ▼ To give you total design flexibility, we can custom bend the pipework, providing smooth flow without extra fittings, to precisely meet your design configuration.
- ▼ To simplify your ordering process, we offer over 20 design configurations with separate worksheets for each. The worksheets allow you to enter all of the dimensions, design parameters, selection and positioning of components in a simple, fill-in-the-blank format.
- ◄ If you don't see exactly what you want, send us your own drawing for a quotation.
- When we receive your completed worksheet or drawing, our engineers will review it for accuracy, and we will provide with a detailed quote.



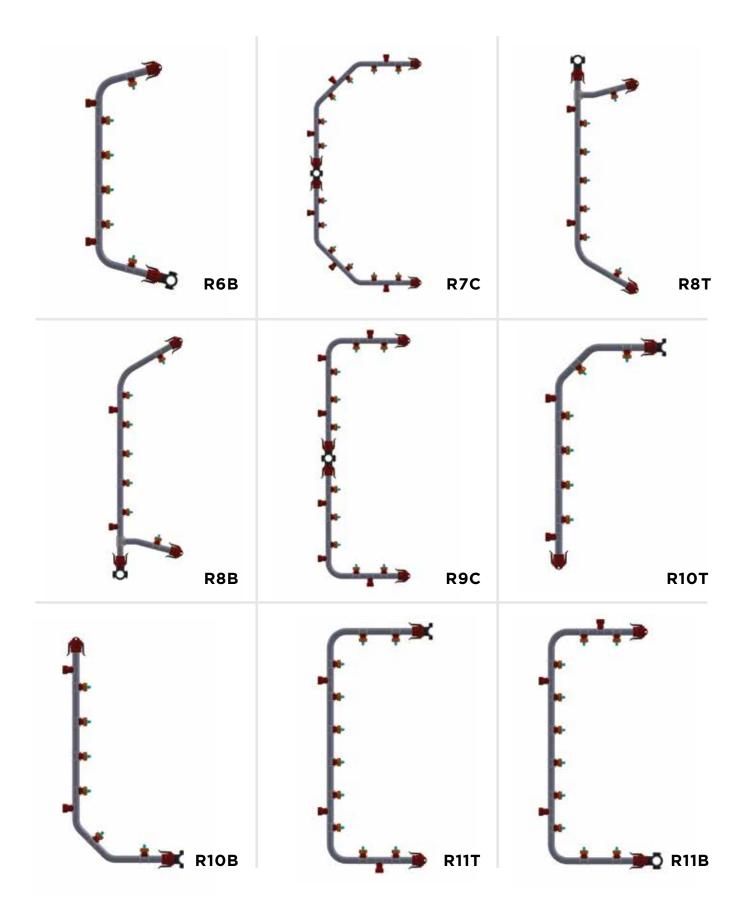




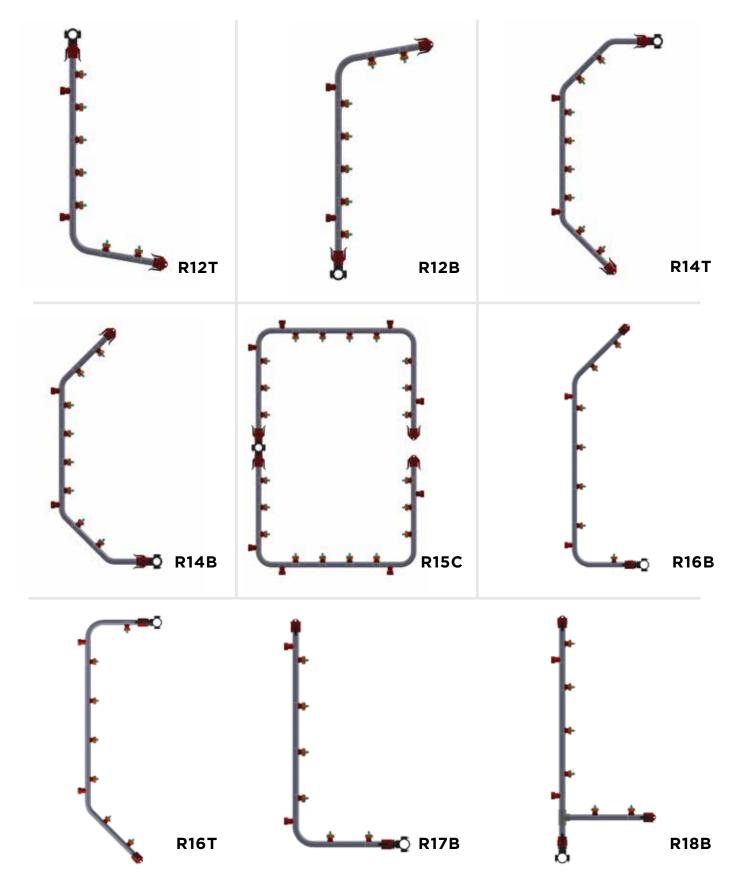
QUIK-DISCONNECT RISERS - CONTACT US FOR A WORKSHEET



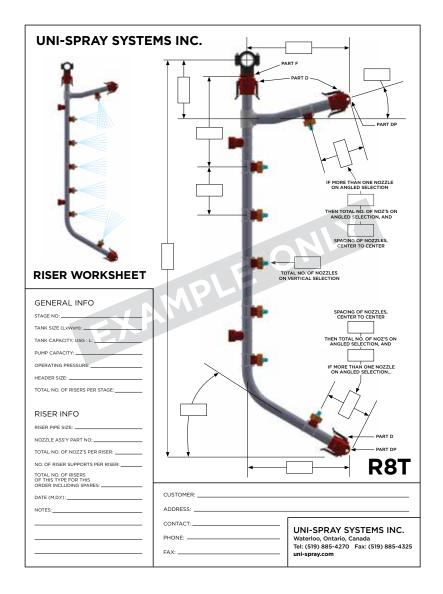
QUIK-DISCONNECT RISERS - CONTACT US FOR A WORKSHEET







REQUEST A QUOTE ON A UNI-SPRAY CUSTOM-DESIGNED RISER TO FIT YOUR APPLICATION!



To Assemble

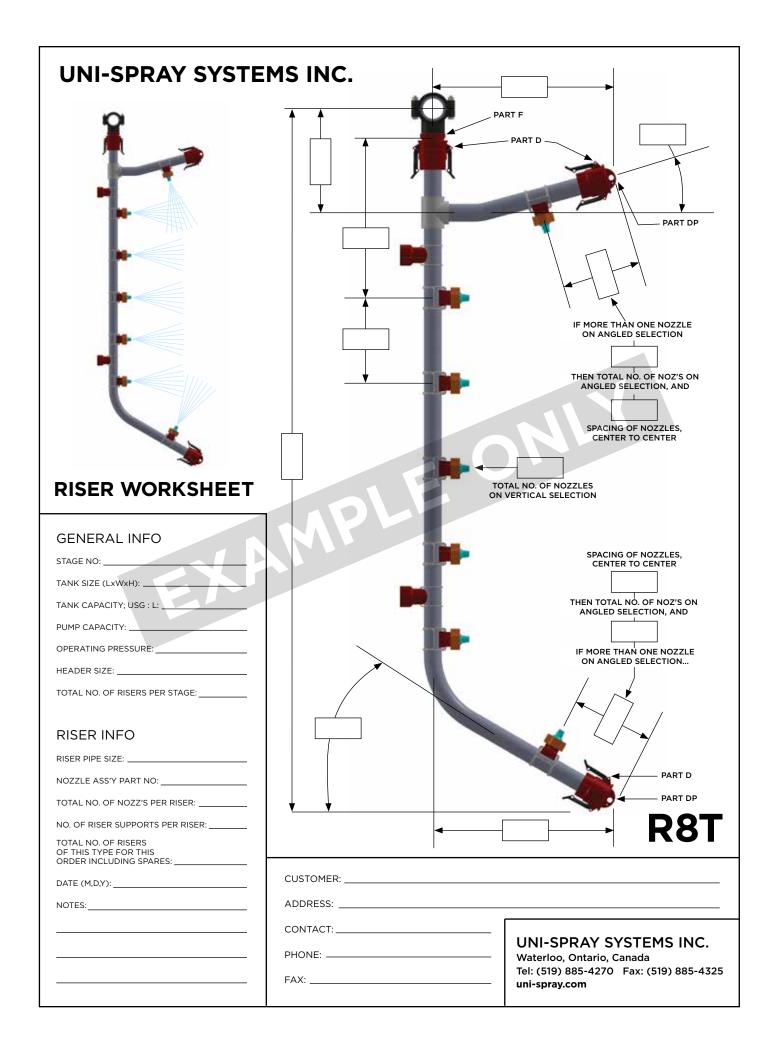
- 1. Find the Riser closest to your requirements, on pages 35 to 37 of this catalogue.
- 2. Our riser work sheets are easily downloadable on our web site www.uni-spray.com or call and talk to a product specialist.
- Fill in all the information boxes, and add any other relevant details.
 Print clearly with a black pen or pencil. See page 40 for important design considerations.
- Return the Worksheet to us by fax or email. We will prepare a quotation for evaluation.
- 5. We will produce a drawing or shop-ready Worksheet Copy of your Riser, and return it to you for confirmation.
- 6. Check the returned drawing for any changes. Contact us if any changes are required.
- 7. When the drawing is done to your satisfaction, authorize it with your signature and the date, and return it to us by mail or fax along with your Purchase Order number.
- 8. Uni-Spray will confirm price and delivery.

ASK OUR EXPERTS

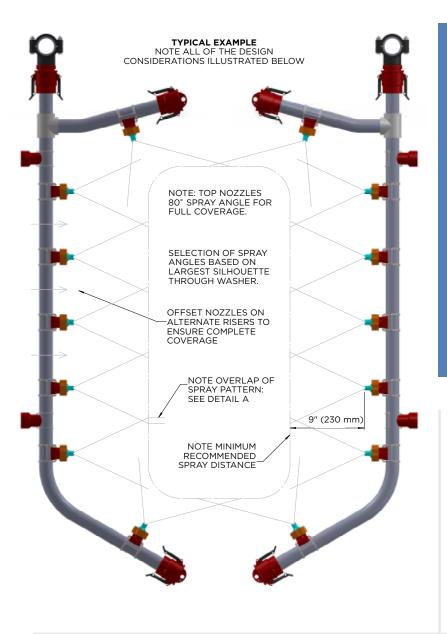
If you have any questions, don't hesitate to call us. Our experts are always ready to help with a special order, even if the Riser style you want is not shown in our current listings.

Phone: 519-885-4270 | Toll Free: 877-236-0204 | Fax: 519-885-4325

Email: sales@uni-spray.com



SPRAY ANGLE SELECTION AND SPACING



PLEASE NOTE

When selecting Nozzle Spray Angle, and the quantity and distance between nozzles, it is necessary to consider the size and shape of the largest ware that will pass through the washer.

Nozzles must be sized and spaced so that their sprays will cover the entire part, with at least 1" (25 mm) overlap between adjacent spray patterns. Sprays should be at least 9" (230 mm) from the end of the tip to the part for even coating. The nozzles should be rotated 15° from the Riser axis to avoid interference from overlap spray patterns.

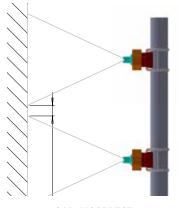
Failure to observe the guidelines may result in poor coating weights and banding.





Select Nozzle Spray Angles and Nozzle Spacing on the Riser so that there is at least a 1" (25 mm) overlap between adjacent sprays, as shown at left. This measurement must be obtained using the largest silhouette which must pass through the washer.

Incorrect Spray Angle selection and Nozzle Spacing as shown at right can result in banding.



OVERLAP: CORRECT

GAP: INCORRECT







UNI-SPRAY SYSTEMS INC.

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