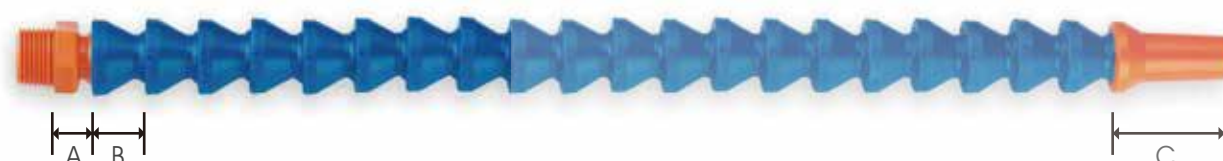


Length Calculation Method

Adjustable Coolant Hoses Length Calculation Method Sample Calculations

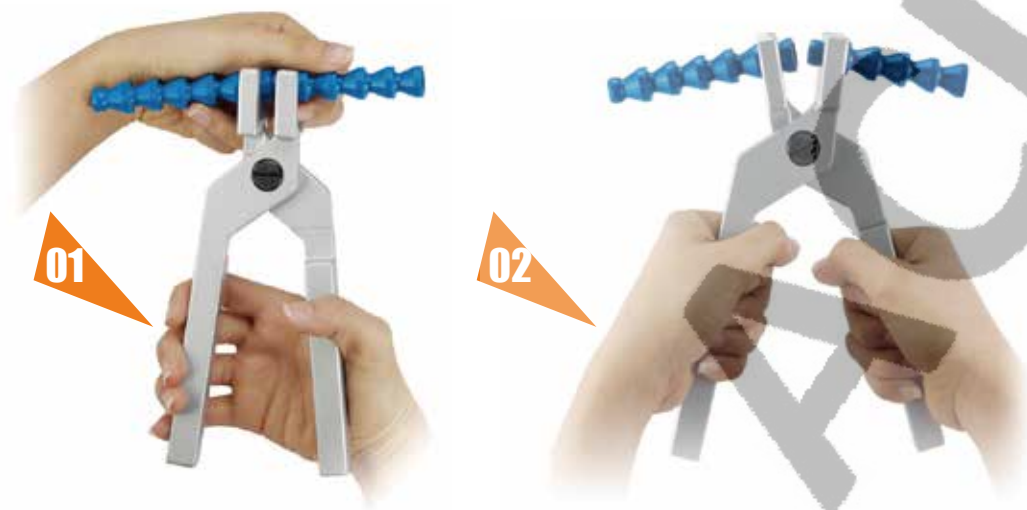


$$\text{Connector Size (A)} + \text{Effective Hose Size (B x Number of inter locking pieces)} + \text{Nozzle (C)} = \text{Total Length}$$

- ▶ **1/4"** 10.2 mm + 14.8 mm x Number of hoses + 35.2 mm = Total length
- ▶ **3/8"** 12.7 mm + 17.3 mm x Number of hoses + 39.2 mm = Total length
- ▶ **1/2"** 14.8 mm + 21.1 mm x Number of hoses + 37.8 mm = Total length
- ▶ **3/4"** 14.2 mm + 23.7 mm x Number of hoses + 43.0 mm = Total length

Installation of Adjustable Coolant Hoses

It's simple and easy to install Adjustable Coolant Hoses using the special pliers. The pliers can also be used to take apart the hose.

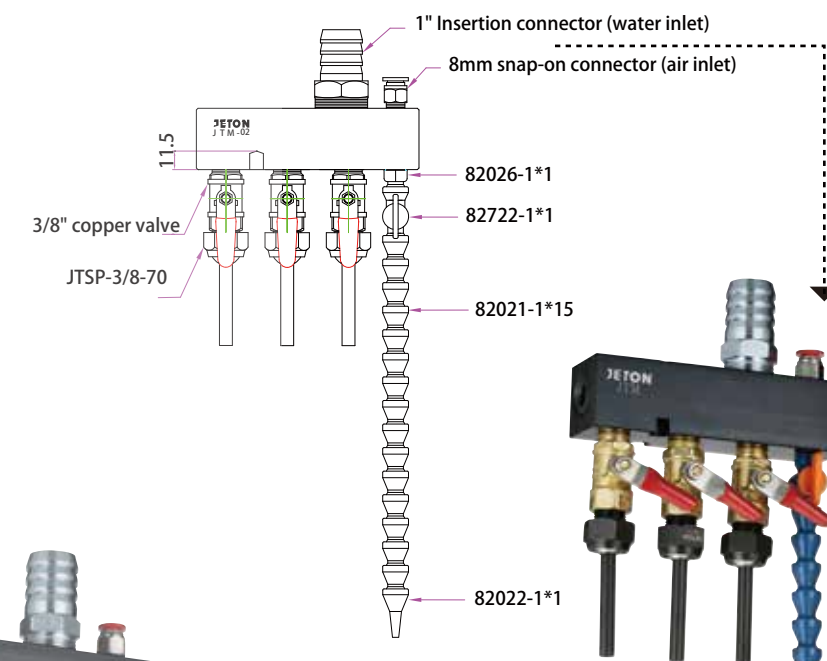
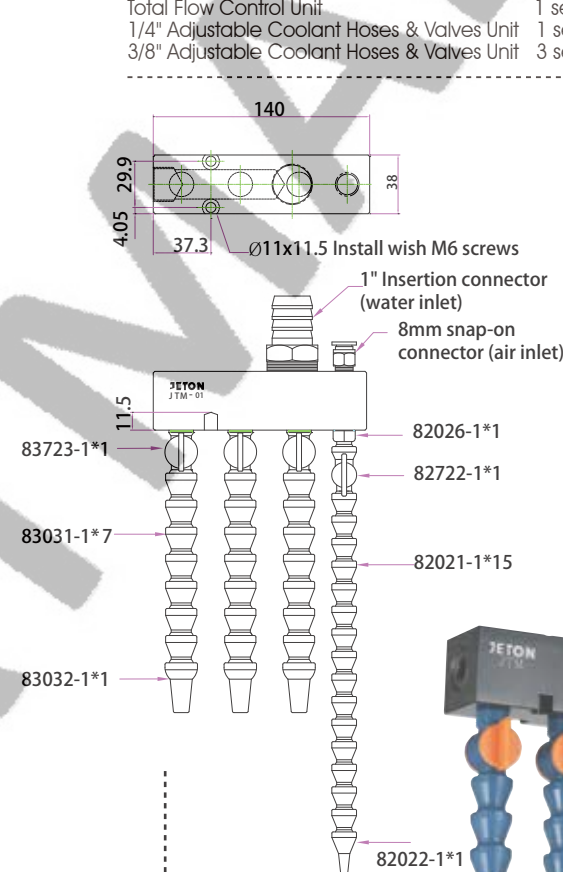


Total Flow Control Unit

The Total Flow Control Unit can be installed on all types of mechanical equipment to control of water flow. It is easy to install and makes machine more aesthetically attractive. Ensures convenient flow control.

JTM-01 CONTROL UNIT

Total Flow Control Unit 1 set
1/4" Adjustable Coolant Hoses & Valves Unit 1 set
3/8" Adjustable Coolant Hoses & Valves Unit 3 set



JTM-02 CONTROL UNIT

Total Flow Control Unit 1 set
1/4" Adjustable Coolant Hoses & Valves Unit 1 set
High Pressures Adjustable Nozzle 3 set



Total Flow Control Unit

Vacuum Flex Tube System 2 1/2" Inside Diameter

Picture	Item	Description
	89091	Vacuum Segment Packs, 9 Elements 2.5" ID
	89191	Vacuum Segment Packs, 18 Elements 2.5" ID
	89291	Vacuum Segment Packs, 180 Elements 2.5" ID
	89094	4.5" Round Nozzle, pack of 1
	89194	4.5" Round Nozzle, pack of 10
	89092	6" x 3.5" Rectangular Nozzle, pack of 1
	89192	6" x 3.5" Rectangular Nozzle, pack of 10
	89093	Tapered Oval Nozzle, pack of 1
	89193	Tapered Oval Nozzle, pack of 10
	89722	2.5" Slide Valve, pack of 1
	89742	2.5" Slide Valve, pack of 10
	89096	Shop Vacuum Hose Adapter with Mounting Tab, pack of 1
	89196	Shop Vacuum Hose Adapter with Mounting Tab, pack of 10
	89095	Shop Vacuum Adapter, pack of 1
	89195	Shop Vacuum Adapter, pack of 10

Picture	Item	Description
	89098	3" PVC Adapter, (Connect to 3" PVC Pipe) pack of 1
	89198	3" PVC Adapter, (Connect to 3" PVC Pipe) pack of 10
	89097	3" Sheet Metal Duct Adapter, (Connect to 3" Metal Duct) pack of 1
	89197	3" Sheet Metal Duct Adapter, (Connect to 3" Metal Duct) pack of 10
	89099	Shop Vacuum Adapter, pack of 1
	89199	Shop Vacuum Adapter, pack of 10
	89021	4" to 2.5" Shop Vacuum Adapter, pack of 1
	89121	4" to 2.5" Shop Vacuum Adapter, pack of 10
	89038	4" to 2.5" Y Reducer, pack of 1
	89101	2.5" Fixed Base, pack of 1
	89102	4" to 2.5" Shop Vacuum Adapter Fixed Base, pack of 1
	89103	4" to 2.5" Y Reducer Fixed Base, pack of 1

Vacuum Flex Tube Features

This 2-1/2" vacuum flex tube is designed specifically for vacuum systems, and can be used for vacuuming dust, smoke, and particles. The tube's angle can be conveniently adjusted to reach every place within a work area. Length can also be adjusted to meet work needs. Several types of connectors and nozzles are also available, allowing users to select the most suitable setup. This 2 1/2" vacuum tube can be connected to a 3" PVC drainage pipe, 3" metal pipe, or a portable vacuum cleaner.

- ▶ The tube can be rotated 360°; angle is easily adjusted. Can be attached in an ideal working location.
- ▶ Durable, compression-resistant, wear-resistant.
- ▶ Made using superior DuPont plastic material; resistant to most chemicals.
- ▶ Highly flexible; bending will not reduce the inner diameter.
- ▶ Bending radius is approximately 145 mm.

TEMPERATURE SPECIFICATIONS

- ▶ Melting point: 165° C
- ▶ Maximum use temperature: 65° C

WARNING

- ▶ These vacuum flex tubes are made from plastic material. This material is highly flammable and must be kept away from sources of flame in order to prevent fire.

Vacuum Flex Tube



1/4" SYSTEM

Male & Female Connector

- 82025**
1/8" PT Connector
- 82026**
1/4" PT Connector
- 82013**
5/8" Female UNF Connector
- 82014**
7/16" Female UNF Connector
- 82723**
1/4" Male PT Valve
- 82724**
1/4" Female PT Valve

Polymorphic Connector

- 82028**
1/4" Y Fitting
- 82011**
1/4" Double Socket
- 82220**
1/4" Extended Element Kit with Element Clamp
- 62420**
1/4" Elbow Fitting
- 62422**
1/4" Side Flow Nozzle
- 62424**
1/4" End Cap
- 62426**
1/4" T Fitting
- 82722**
1/4" Connection Valve
- 82725**
1/4" In-Line Check Valve

Nozzle

- 82029**
1/4" PT Connector
- 82012**
1/4" Socket to 1/8" NPT
- 82052**
1/4" Female PT Connector
- 82062**
1/4" Female NPTF Connector
- 82054**
1/4" Flat Slot 40 Nozzle
- 82055**
1/4" Flat Slot 60 Nozzle
- 82056**
1/4" Flat 7 Hole Nozzle
- 82057**
1/4" Flat 5 Hole Nozzle
- 82053**
1" Straight Flow Nozzle
- 82227**
2-1/2" Swivel Nozzle 75
- 82022**
1/16" Round Nozzle
- 82023**
1/8" Round Nozzle
- 82024**
1/4" Round Nozzle
- 82223**
1/16" 90° Nozzle
- 82224**
1/8" 90° Nozzle
- 82225**
1/4" 90° Nozzle
- 82226**
1/4" 90° Spray Bar Nozzle
- 82017**
3/8" Flat Nozzle
- 82027**
1" Flare Nozzle
- 82228**
1/4" Swivel Nozzle 40
- 82229**
1/4" Swivel Nozzle 60

3/8" SYSTEM

Male & Female Connector

- 83035**
3/8" PT Connector
- 83036**
1/2" PT Connector
- 83026**
1/4" PT Connector
- 83723**
3/8" Male PT Valve
- 83724**
3/8" Female PT

Polymorphic Connector

- 83038**
3/8" Y Fitting
- 83011**
- 83651**
3/8" to 1/4" Adapter
- 83722**
3/8" Connection Valve
- 83725**
3/8" In-Line Check Valve

Nozzle

- 83032**
1/4" Round Nozzle
- 83033**
3/8" Round Nozzle
- 83034**
1/2" Round Nozzle
- 83037**

1/2" SYSTEM

Male & Female Connector

- 84045**
1/2" PT Connector
- 84046**
3/8" PT Connector
- 84013**
3/8" SAE Flare Nut Adapter
- 84723**
1/2" Male PT Valve
- 84724**
1/2" Female PT Valve

Polymorphic Connector

- 84011**
1/2" Double Socket
- 84048**
1/2" Y Fitting
- 84049**
1/2" to 1/4" Y Reducer
- 84651**
1/2" to 1/4" Adapter
- 84440**
1/2" Extended Element Kit with Element Clamp
- 64620**
1/2" Elbow Fitting
- 64622**
1/2" Side Flow Nozzle
- 64626**
1/2" T Fitting
- 84722**
1/2" Connection Valve
- 84725**
1/2" In-Line Check Valve

Nozzle

- 84047**
1-1/4" Flare Nozzle
- 84050**
1-3/4" Flare Nozzle
- 84052**
2-1/2" Flare Nozzle
- 84054**
1/2" Flat Slot 40 Nozzle
- 84055**
1/2" Flat Slot 60 Nozzle
- 84056**
1/2" Flat 7 Hole Nozzle
- 84057**
1/2" Flat 5 Hole Nozzle
- 84058**
1-1/4" Straight Flow Nozzle
- 84059**
1-5/8" Straight Flow Nozzle
- 84042**
3/8" Round Nozzle
- 84043**
1/2" Round Nozzle
- 84044**
1/4" Round Nozzle
- 84443**
1/4" 90° Nozzle
- 84444**
3/8" 90° Nozzle
- 84445**
1/2" 90° Nozzle
- 84446**
1/2" 90° Spray Bar Nozzle
- 84447**
2-1/2" Swivel Nozzle 75 for 1/2"

3/4" SYSTEM

Male & Female Connector

- 86064**
3/4" PT Connector
- 86723**
3/4" Male PT Valve
- 86724**
3/4" Female PT Valve








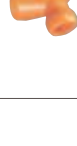






























































Polymorphic Connector

- 86068**
3/4" Y Fitting
- 86069**
3/4" to 1/2" Y Reducer
- 86051**
3/4" to 1/2" Adapter
- 86011**
3/4" Double Socket
- 66620**
3/4" Elbow Fitting
- 86722**
3/4" Connection Valve

























Nozzle

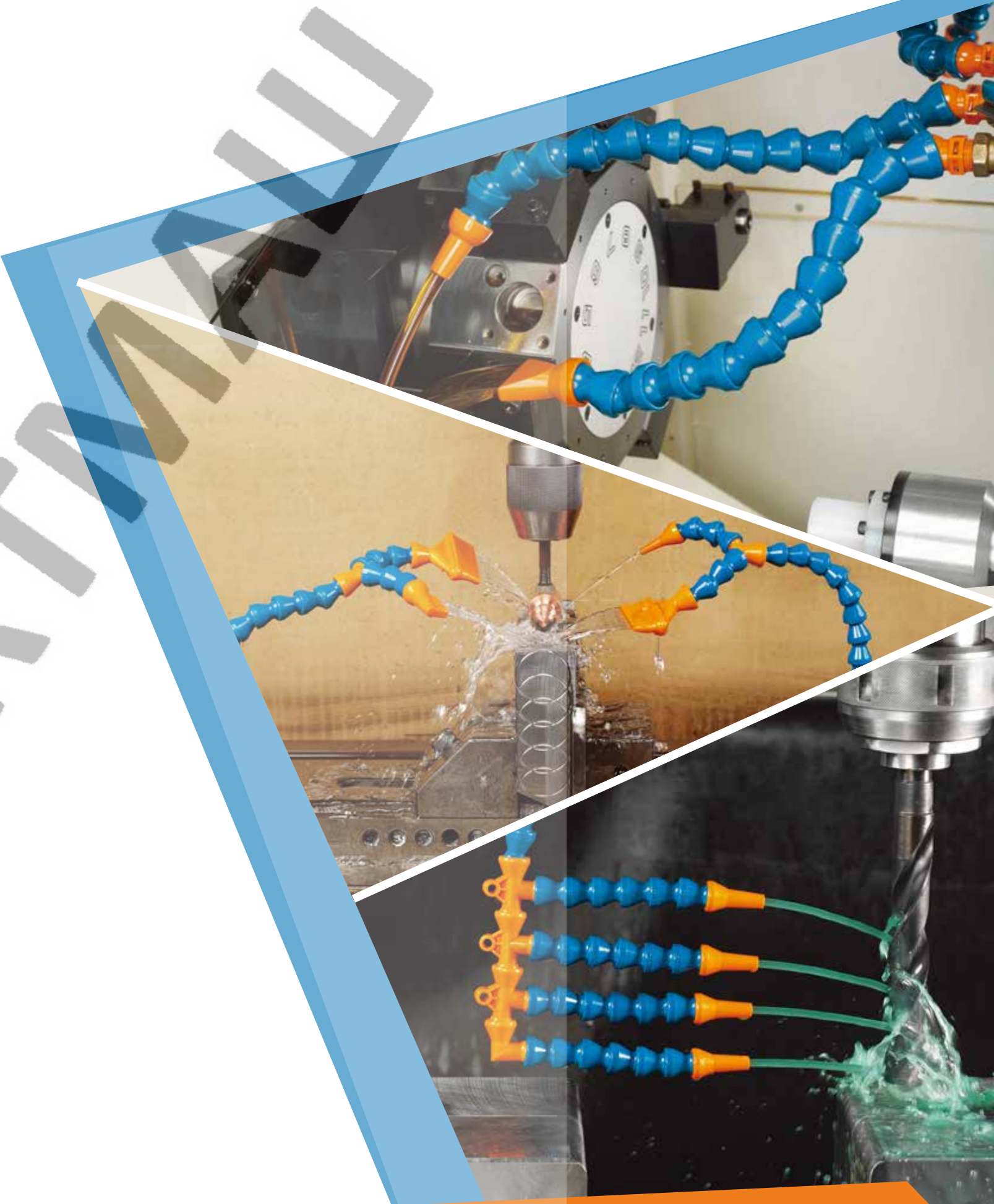
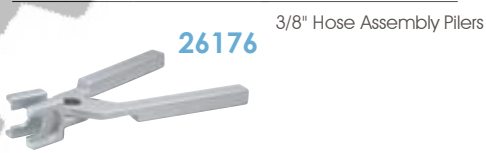
- 86063**
5/8" Round Nozzle
- 86062**
3/4" Round Nozzle
- 86067**
3" Flare Nozzle

1/4" System (1/4" Inside Diameter)



















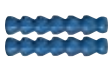
































































Picture	Item	Description	Picture	Item	Description	Picture	Item	Description	Picture	Item	Description	Picture	Item	Description			
	82020	1/4" Hose Kit 10 pcs of 1/4" Segment - 2 sets 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male PT Connectors		82326	1/4" 90° Nozzle Kit 1 Each: 1/16" 90° Nozzle 1/8" 90° Nozzle 1/4" 90° Nozzle 1/4" 90° Spray Bar Nozzle		82054	1/4" Flat Slot 40 Nozzle, pack of 2		82028	1/4" Y Fitting, pack of 2		62422	1/4" Side Flow Nozzle, pack of 4		82723A	1/4" Male NPT Valve, pack of 2
				82074	1/4" Flat Slot 40 Nozzle, pack of 20					82038	1/4" Y Fitting, pack of 20		62442	1/4" Side Flow Nozzle, pack of 20		82733A	1/4" Male NPT Valve, pack of 10
				82055	1/4" Flat Slot 60 Nozzle, pack of 2		82011	1/4" Double Socket, pack of 4		82031	1/4" Double Socket, pack of 20		62424	1/4" End Cap, pack of 4		82724	1/4" Female PT Valve, pack of 2
				82075	1/4" Flat Slot 60 Nozzle, pack of 20								62444	1/4" End Cap, pack of 20		82744	1/4" Female PT Valve, pack of 10
	82020A	1/4" Hose Kit 10 pcs of 1/4" Segment - 2 sets 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male NPT Connectors		82022	1/16" Round Nozzle, pack of 4		82056	1/4" Flat Slot 7 Hole Nozzle, pack of 2		82012	1/4" Socket to 1/8" NPT, pack of 4		82227	2 1/2" Swivel Nozzle 75, pack of 2		82724A	1/4" Female NPT Valve, pack of 2
				82042	1/16" Round Nozzle, pack of 50		82076	1/4" Flat Slot 7 Hole Nozzle, pack of 20		82032	1/4" Socket to 1/8" NPT, pack of 20		82247	2 1/2" Swivel Nozzle 75, pack of 20		82744A	1/4" Female NPT Valve, pack of 10
				82023	1/8" Round Nozzle, pack of 4								82228	1/4" Swivel Nozzle 40, pack of 2		82725	1/4" In-Line Check Valve, pack of 2
				82043	1/8" Round Nozzle, pack of 50		82057	1/4" Flat Slot 5 Hole Nozzle, pack of 2		82052	1/4" Female PT Connector, pack of 4		82248	1/4" Swivel Nozzle 40, pack of 20		82745	1/4" In-Line Check Valve, pack of 10
	82220	1/4" Extended Element Kit Element Clamps include 4 each of: 1/4" Extended Elements 1/4" Element Clamps		82024	1/4" Round Nozzle, pack of 4		82077	1/4" Flat Slot 5 Hole Nozzle, pack of 20		82072	1/4" Female PT Connector, pack of 50					52400	1/4" Modular Manifold System
				82223	1/16" 90° Nozzle, pack of 4		82053	1" Straight Flow Nozzle, pack of 2		82052F	1/4" Female PF Connector, pack of 4		82229	1/4" Swivel Nozzle 60, pack of 2			1/4" Elbow Fitting - 1 piece
				82243	1/16" 90° Nozzle, pack of 20		82073	1" Straight Flow Nozzle, pack of 20		82072F	1/4" Female PF Connector, pack of 50		82249	1/4" Swivel Nozzle 60, pack of 20			1/4" Manifold Bracket - 1 piece
	82021	1/4" Segment Pack 15 CM - 2 sets		82224	1/8" 90° Nozzle, pack of 4		82025	1/8" PT Connector, pack of 4		82062	1/4" Female NPTF Connector, pack of 4		82721A	1/4" NPT Male Hose Nipple Valve, pack of 2			1/4" T Fitting - 3 pcs
				82244	1/8" 90° Nozzle, pack of 20		82035	1/8" PT Connector, pack of 50		82082	1/4" Female NPTF Connector, pack of 50		82731A	1/4" NPT Male Hose Nipple Valve, pack of 10			Mounting Screws - 3 pcs
	82051	1524 CM Coil		82225	1/4" 90° Nozzle, pack of 4		82025A	1/8" NPT Connector, pack of 4		82013	5/8" Female UNF Connector, pack of 4		82722	1/4" Connection Valve, pack of 2		52410	1/4" Main Flow Control Manifold System
	82071	2500 CM Coil		82245	1/4" 90° Nozzle, pack of 20		82035A	1/8" NPT Connector, pack of 50		82033	5/8" Female UNF Connector, pack of 20		82732	1/4" Connection Valve, pack of 10			1/4" Modular Manifold - 1 set
	62423	1/4" Circle Flow Nozzle Kit Assembled with 15 pcs of 1/4" Side Flow Nozzles & 1 pc of 1/4" End Cap		82226	1/4" 90° Spray Bar Nozzle, pack of 2		82026	1/4" PT Connector, pack of 4		82014	7/16" Female UNF Connector, pack of 4		82723	1/4" Male PT Valve, pack of 2			1/4" Connection Valve - 5 pcs
				82246	1/4" 90° Spray Bar Nozzle, pack of 20		82036	1/4" PT Connector, pack of 50		82034	7/16" Female UNF Connector, pack of 20		82733	1/4" Male PT Valve, pack of 10		52416	1/4" Manifold Bracket, pack of 2
	82221	1/4" Extended Element, pack of 4		82017	3/8" Flat Nozzle, pack of 2		82026A	1/4" NPT Connector, pack of 4		62420	1/4" Elbow Fitting, pack of 2						
	82241	1/4" Extended Element, pack of 20		82037	3/8" Flat Nozzle, pack of 20		82036A	1/4" NPT Connector, pack of 50		62430	1/4" Elbow Fitting, pack of 20						
	82222	1/4" Element Clamp, pack of 4 1/4" Element Clamp, pack of 20		82027	1" Flare Nozzle, pack of 2		82029	1/4" PT Connector, pack of 4		62426	1/4" T Fitting, pack of 2					26171	1/4" Hose Assembly Pliers
				82047	1" Flare Nozzle, pack of 20			1/4" PT Connector, pack of 50		62436	1/4" T Fitting, pack of 20						

3/8" System (3/8" Inside Diameter)

Picture	Item	Description	Picture	Item	Description	Picture	Item	Description
	83030	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzle 3/8" Male PT Connector		83032	1/4" Round Nozzle, pack of 4		83038	3/8" Y Fitting, pack of 2
				83052	1/4" Round Nozzle, pack of 50		83058	3/8" Y Fitting, pack of 20
				83033	3/8" Round Nozzle, pack of 4		83011	3/8" Double Socket, pack of 4
	83030A	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzle 3/8" Male NPT Connector		83053	3/8" Round Nozzle, pack of 50		83041	3/8" Double Socket, pack of 20
				83034	1/2" Round Nozzle, pack of 4		83725	3/8" In-Line Check Valve, pack of 2
				83054	1/2" Round Nozzle, pack of 50		83745	3/8" In-Line Check Valve, pack of 10
	83430	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 pcs 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male PT Connectors		83026	1/4" PT Connector, pack of 4		83651	3/8" to 1/4" Adapter, pack of 2
				83046	1/4" PT Connector, pack of 50			3/8" to 1/4" Adapter, pack of 20
				83035	3/8" PT Connector, pack of 4		83722	3/8" Connection Valve, pack of 2
				83055	3/8" PT Connector, pack of 50		83742	3/8" Connection Valve, pack of 10
	83430A	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 pcs 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male NPT Connectors		83035A	3/8" NPT Connector, pack of 4		83723	3/8" Male PT Valve, pack of 2
				83055A	3/8" NPT Connector, pack of 50		83743	3/8" Male PT Valve, pack of 10
				83036	1/2" PT Connector, pack of 4		83723A	3/8" Male NPT Valve, pack of 2
				83056	1/2" PT Connector, pack of 50		83743A	3/8" Male NPT Valve, pack of 10
	83031	3/8" Segment Pack 14.5 CM - 2 sets		83036A	1/2" NPT Connector, pack of 4		83724	3/8" Female PT Valve, pack of 2
				83056A	1/2" NPT Connector, pack of 50		83744	3/8" Female PT Valve, pack of 10
	83051 83091	3/8" Segment Pack 762 CM Coil 1524 CM Coil		83037	1 1/4" Flare Nozzle, pack of 2		83724A	3/8" Female NPT Valve, pack of 2
				83057	1 1/4" Flare Nozzle, pack of 20		83744A	3/8" Female NPT Valve, pack of 10



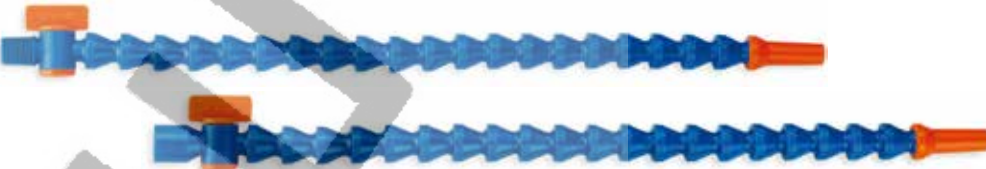

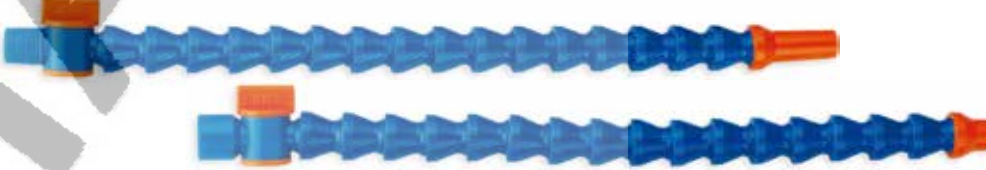





1/2" System (1/2" Inside Diameter)

Picture	Item	Description	Picture	Item	Description	Picture	Item	Description	Picture	Item	Description	Picture	Item	Description			
	84040	1/2" Hose Kit 6 pcs of 1/2" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8", 1/2" Male PT Connectors		84346	90° Nozzle Kit 1 Each: 1/4" 90° Nozzle 3/8" 90° Nozzle 1/2" 90° Nozzle 1/2" 90° Spray Bar Nozzle		84054	1/2" Flat Slot 40 Nozzle, pack of 2		84447	2 1/2" Swivel Nozzle 75 for 1/2", pack of 2		64620	1/2" Elbow Fitting, pack of 2		84725	1/2" In-Line Check Valve, pack of 2
	84040A	1/2" Hose Kit 6 pcs of 1/2" Segment - 2 sets 1/4", 3/8", 1/2" Nozzles 3/8", 1/2" Male NPT Connectors		84044	1/4" Round Nozzle, pack of 4		84075	1/2" Flat Slot 60 Nozzle, pack of 20		84046	3/8" PT Connector, pack of 4		64626	1/2" T Fitting, pack of 2		84013	3/8" SAE Flare Nut Adapter(5/8"-18 Thread), pack of 4
	84440	1/2" Extended Element Kit with Element Clamps Includes 4 each of: 1/2" Extended Elements 1/2" Element Clamps		84042	3/8" Round Nozzle, pack of 4		84076	1/2" Flat Slot 7 Hole Nozzle, pack of 2		84046A	3/8" NPT Connector, pack of 4		64622	1/2" Side Flow Nozzle, pack of 4		54400	1/2" Modular Manifold System
	84041	1/2" Segment Pack 13.5 CM - 2 sets		84062	3/8" Round Nozzle, pack of 50		84057	1/2" Flat Slot 5 Hole Nozzle, pack of 2		84045	1/2" PT Connector, pack of 4		64624	1/2" End Cap, pack of 4			1/2" Elbow Fitting - 1 piece
	84081	1/2" Segment Pack 1524 CM Coil		84063	1/2" Round Nozzle, pack of 50		84077	1/2" Flat Slot 5 Hole Nozzle, pack of 20		84065	1/2" PT Connector, pack of 50		64644	1/2" End Cap, pack of 20			1/2" Manifold Bracket - 1 piece
	84091	2500 CM Coil		84443	1/4" 90° Nozzle, pack of 4		84058	1 1/4" Straight Flow Nozzle, pack of 2		84045A	1/2" NPT Connector, pack of 4		84722	1/2" Connection Valve, pack of 2		54410	1/2" Main Flow Control Manifold System
	64643	1/2" Circle Flow Nozzle Kit Assemble with 15 pcs of 1/2" Side Flow Nozzles & 1 pc of 1/2" End Cap		84463	1/4" 90 Nozzle, pack of 20		84078	1 1/4" Straight Flow Nozzle, pack of 20		84065A	1/2" NPT Connector, pack of 50		84742	1/2" Connection Valve, pack of 10			1/2" Modular Manifold - 1 set
				84444	3/8" 90° Nozzle, pack of 4		84059	1 5/8" Straight Flow Nozzle, pack of 2		84048	1/2" Y Fitting, pack of 2		84723	1/2" Male PT Valve, pack of 2			1/2" Connection Valve - 5 pcs
				84464	3/8" 90° Nozzle, pack of 20		84079	1 5/8" Straight Flow Nozzle, pack of 20		84068	1/2" Y Fitting, pack of 20		84743	1/2" Male PT Valve, pack of 10		54416	1/2" Manifold Bracket, pack of 2
				84445	1/2" 90° Nozzle, pack of 4		84047	1 1/4" Flare Nozzle, pack of 2		84049	1/2" to 1/4" Y Reducer, pack of 2		84723A	1/2" Male NPT Valve, pack of 2		26172	1/2" Hose Assembly Pliers
				84465	1/2" 90° Nozzle, pack of 20		84067	1 1/4" Flare Nozzle, pack of 20		84069	1/2" to 1/4" Y Reducer, pack of 20		84743A	1/2" Male NPT Valve, pack of 10			
				84446	1/2" 90° Spray Bar Nozzle, pack of 2		84050	1 3/4" Flare Nozzle, pack of 2		84651	1/2" to 1/4" Adapter, pack of 2		84724	1/2" Female PT Valve, pack of 2			
				84466	1/2" 90° Spray Bar Nozzle, pack of 20		84070	1 3/4" Flare Nozzle, pack of 20		84851	1/2" to 1/4" Adapter, pack of 20		84744	1/2" Female PT Valve, pack of 10			
							84052	2 1/2" Flare Nozzle, pack of 2		84011	1/2" Double Socket, pack of 4		84724A	1/2" Female NPT Valve, pack of 2			
							84072	2 1/2" Flare Nozzle, pack of 20		84031	1/2" Double Socket, pack of 20		84744A	1/2" Female NPT Valve, pack of 10			

3/4" SYSTEM (3/4" Inside Diameter)

Picture	Item	Description	Picture	Item	Description	Picture	Item	Description
	86060	3/4" Hose Kit 6 pcs of 3/4" Segment - 2 sets 5/8" & 3/4" Nozzles 3/4" Male PT Connector		86064A	3/4" NPT Connector, pack of 4		86011	3/4" Double Socket, pack of 4
				86074A	3/4" NPT Connector, pack of 50		86031	3/4" Double Socket, pack of 20
	86060A	3/4" Hose Kit 6 pcs of 3/4" Segment - 2 sets 5/8" & 3/4" Nozzles 3/4" Male NPT Connector		86021	3/4" Fixed Mount, pack of 2		66620	3/4" Elbow Fitting, pack of 2
							66640	3/4" Elbow Fitting, pack of 20
	86061	3/4" Segment Pack 15 CM - 2 sets		86022	3/4" Magnetic Base, pack of 1		86722	3/4" Connection Valve, pack of 2
							86742	3/4" Connection Valve, pack of 10
	86081	3/4" Segment Pack 1524 CM Coil		86023	Shield Mounting Elbow, pack of 2		86723	3/4" Male PT Valve, pack of 2
	86091	2500 CM Coil					86743	3/4" Male PT Valve, pack of 10
	86063	5/8" Round Nozzle, pack of 4		86067	3" Flare Nozzle, pack of 2		86723A	3/4" Male NPT Valve, pack of 2
	86073	5/8" Round Nozzle, pack of 50		86077	3" Flare Nozzle, pack of 20		86743A	3/4" Male NPT Valve, pack of 10
	86062	3/4" Round Nozzle, pack of 4		86068	3/4" Y Fitting, pack of 2		86724	3/4" Female PT Valve, pack of 2
	86072	3/4" Round Nozzle, pack of 50		86078	3/4" Y Fitting, pack of 20		86744	3/4" Female PT Valve, pack of 10
	86064	3/4" PT Connector, pack of 4		86069	3/4" to 1/2" Y Reducer, pack of 2		86724A	3/4" Female NPT Valve, pack of 2
	86074	3/4" PT Connector, pack of 50		86079	3/4" to 1/2" Y Reducer, pack of 20		86744A	3/4" Female NPT Valve, pack of 10
				86051	3/4" to 1/2" Adapter, pack of 2		26177	3/4" Hose Assembly Pliers
				86071	3/4" to 1/2" Adapter, pack of 20			

Adjustable Coolant Hoses & Valves

	62720 36cm Length Hose Kit	1/4" Male PT or NPT Valve 20 pcs of 1/4" Segment 1/16", 1/8" or 1/4" Round Nozzle	1 piece 1 piece 1 piece		62721 36cm Length Hose Kit	1/4" Female PT or NPT Valve 20 pcs of 1/4" Segment 1/16", 1/8" or 1/4" Round Nozzle	1 piece 1 piece 1 piece
	63720 36cm Length Hose Kit	3/8" Male PT or NPT Valve 16 pcs of 3/8" Segment 1/4", 3/8" or 1/2" Round Nozzle	1 piece 1 piece 1 piece		63721 36cm Length Hose Kit	3/8" Female PT or NPT Valve 16 pcs of 3/8" Segment 1/4", 3/8" or 1/2" Round Nozzle	1 piece 1 piece 1 piece
	64720 35cm Length Hose Kit	1/2" Male PT or NPT Valve 12 pcs of 1/2" Segment 1/4", 3/8" or 1/2" Round Nozzle	1 piece 1 piece 1 piece		64721 35cm Length Hose Kit	1/2" Female PT or NPT Valve 12 pcs of 1/2" Segment 1/4", 3/8" or 1/2" Round Nozzle	1 piece 1 piece 1 piece
	66720 40cm Length Hose Kit	3/4" Male PT or NPT Valve 12 pcs of 3/4" Segment 5/8" or 3/4" Round Nozzle	1 piece 1 piece 1 piece		66721 40cm Length Hose Kit	3/4" Female PT or NPT Valve 12 pcs of 3/4" Segment 5/8" or 3/4" Round Nozzle	1 piece 1 piece 1 piece

Acid Resistant Hose System

1/4"

Item	Description	
1/4" Acid Resistant Segment Pack		
52021	14 cm	2 pcs
52051	1524 cm	1 coil
52071	2500 cm	1 coil
1/16" Acid Resistant Round Nozzle		
52022		pack of 4
52042		pack of 50
1/8" Acid Resistant Segment Pack		
52023		pack of 4
52043		pack of 50
1/4" Acid Resistant Round Nozzle		
52024		pack of 4
52044		pack of 50
3/8" Acid Resistant Flare Nozzle		
52017		pack of 2
52037		pack of 20
1" Acid Resistant Flare Nozzle		
52027		pack of 2
52047		pack of 20
1/8" Acid Resistant PT Connector		
52025		pack of 4
52035		pack of 50
1/8" Acid Resistant NPT Connector		
52025A		pack of 4
52035A		pack of 50
1/4" Acid Resistant PT Connector		
52026		pack of 4
52036		pack of 50
1/4" Acid Resistant NPT Connector		
52026A		pack of 4
52036A		pack of 50
1/4" Acid Resistant PT Connector		
52029		pack of 4
52039		pack of 50
1/4" Acid Resistant Y Fitting		
52028		pack of 4
52038		pack of 50
1/4" Acid Resistant Double Socket		
52011		pack of 4
52031		pack of 20
1/4" Acid Resistant Elbow Fitting		
52420		pack of 2
52430		pack of 20
1/4" Acid Resistant T Fitting		
52426		pack of 2
52436		pack of 20

3/8"

Item	Description	
3/8" Acid Resistant Segment Pack		
53031	14.5 cm	2 pcs
53051	762 cm	1 coil
53091	1524 cm	1 coil
1/4" Acid Resistant Round Nozzle		
53032	pack of 4	
53052	pack of 50	
3/8" Acid Resistant Round Nozzle		
53033	pack of 4	
53053	pack of 50	
1/2" Acid Resistant Round Nozzle		
53034	pack of 4	
53054	pack of 50	
1/4" Acid Resistant Round Nozzle		
53026	pack of 4	
53046	pack of 50	
3/8" Acid Resistant PT Connector		
53035	pack of 4	
53055	pack of 50	
3/8" Acid Resistant NPT Connector		
53035A	pack of 4	
53055A	pack of 50	
1/2" Acid Resistant PT Connector		
53036	pack of 4	
53056	pack of 50	
1/2" Acid Resistant NPT Connector		
53036A	pack of 4	
53056A	pack of 50	
1-1/4" Acid Resistant Flare Nozzle		
53037	pack of 2	
53057	pack of 20	

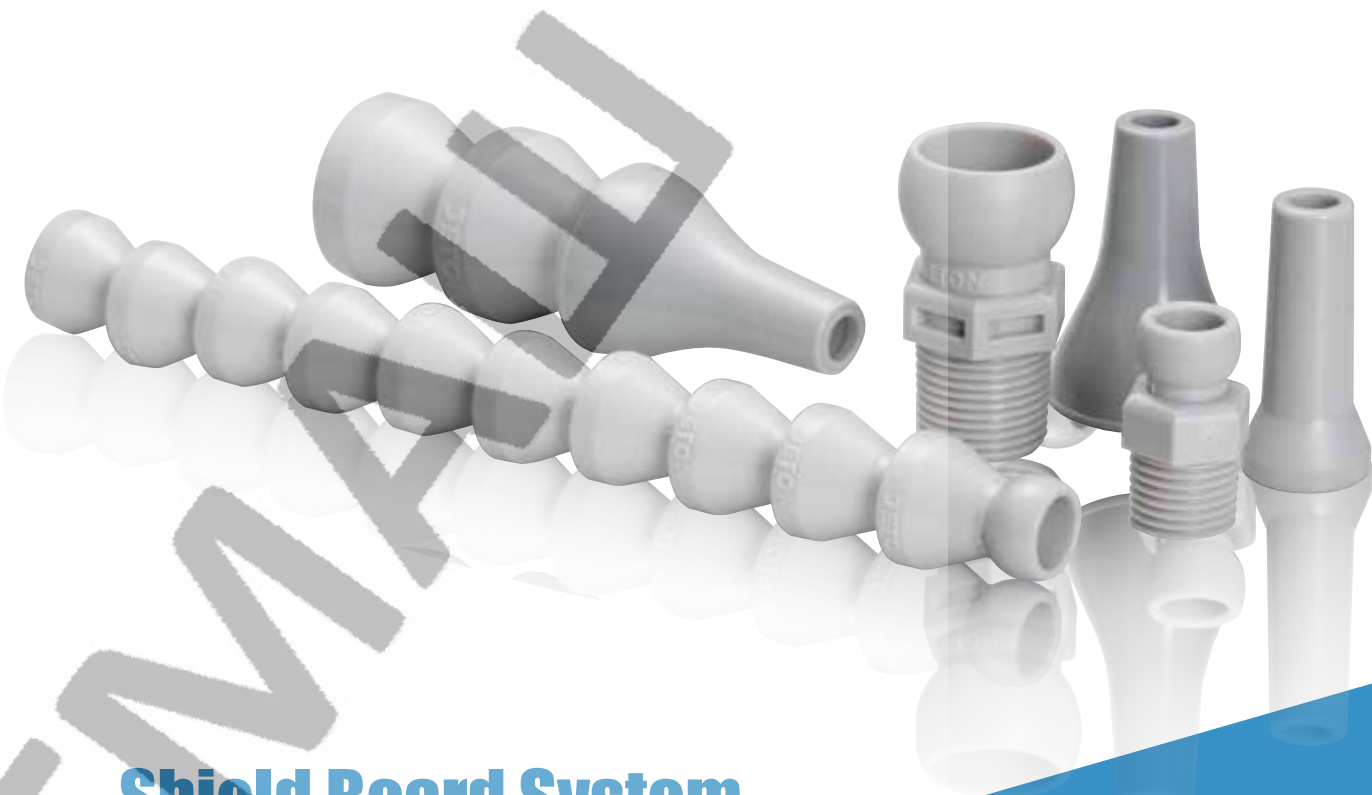
1/2"

Item	Description	
1/2" Acid Resistant Segment Pack		
54041	14 cm	2 pcs
54081	1524 cm	1 coil
53091	2500 cm	1 coil
1/4" Acid Resistant Round Nozzle		
54044	pack of 4	
54064	pack of 50	
3/8" Acid Resistant Round Nozzle		
54042	pack of 4	
54062	pack of 50	
1/2" Acid Resistant Round Nozzle		
54043	pack of 4	
54063	pack of 50	
1-1/4" Acid Resistant Flare Nozzle		
54047	pack of 2	
54067	pack of 20	
1-3/4" Acid Resistant Flare Nozzle		
54050	pack of 2	
54070	pack of 20	
2-1/2" Acid Resistant Flare Nozzle		
54052	pack of 2	
54072	pack of 20	
3/8" Acid Resistant PT Connector		
54046	pack of 4	
54066	pack of 50	
3/8" Acid Resistant NPT Connector		
54046A	pack of 4	
54066A	pack of 50	
1/2" Acid Resistant PT Connector		
54045	pack of 4	
54065	pack of 50	
1/2" Acid Resistant NPT Connector		
54045A	pack of 4	
54065A	pack of 50	
1/2" Acid Resistant Y Fitting		
54048	pack of 2	
54068	pack of 20	
1/2" to 1/4" Acid Resistant Y Fitting		
54049	pack of 2	
54069	pack of 20	
1/2" to 1/4" Acid Resistant Adapter		
54651	pack of 2	
54851	pack of 20	
1/2" Acid Resistant Double Socket		
54011	pack of 4	
54031	pack of 20	
1/2" Acid Resistant Elbow Fitting		
54620	pack of 2	
54640	pack of 20	
1/2" Acid Resistant T Fitting		
54626	pack of 2	
54646	pack of 20	

LISTE OF SUITABLE FLUIDS

Acid Resistant Adjustable Coolant Hoses
Hose is Available in Gray Color

ITEM	SUITABLE	UNSUITABLE
ALCOHOLS, ETHYL	○	
ACIDS, (LESS THAN 65° C)	○	
GASOLINE	○	
GREASES	○	
HYDROCARBONS	○	
OILS	○	
SALT SOLUTIONS	○	
WATER (GREATER THAN 65° C)		X
ACIDS, (GREATER THAN 65° C)		X
ACETONE		X
AROMATIC SOLVENTS		X
CHLORINATED HYDROCARBON		X
ETHYL ACETATE		X
BASES, STRONG		X



Shield Board System



Shield Kit

34101 (6" x 8")

34102 (7-1/2" x 10")

34103 (8-1/2" x 12")

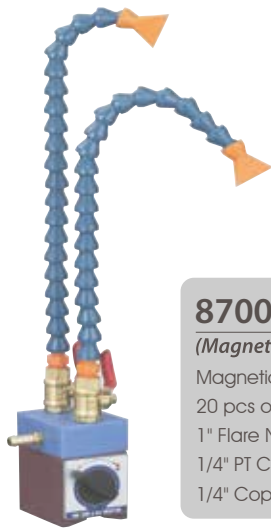
Magnetic Base	1 set
12 pcs of 3/4" Segment	1 piece
3/4" Shield Mounting Elbows	1 piece
3/4" Fixed Mount	1 piece
Nut	2 pcs
Acrylic Board	1 piece

Magnetic Base System



87011 Magnetic Set
(Magnetic Force On-Off)

Magnetic Base (W5xL6.5xH5 CM)	1 set
20 pcs of 1/4" Segment	3 pcs
1" Flare Nozzle	3 pcs
1/4" PT Connector	3 pcs
1/4" Copper Valve	3 pcs



87002 Magnetic Set
(Magnetic Force On-Off)

Magnetic Base (W5xL6.5xH5 CM)	1 set
20 pcs of 1/4" Segment	2 pcs
1" Flare Nozzle	2 pcs
1/4" PT Connector	2 pcs
1/4" Copper Valve	2 pcs



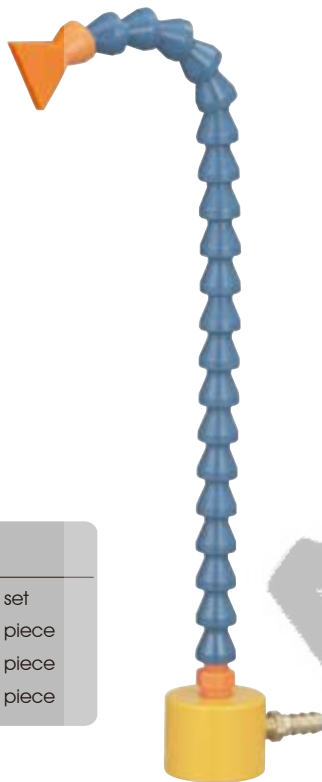
88003 Magnetic Set

Magnetic Base	1 set
10 pcs of 1/4" Segment	1 piece
1" Flare Nozzle	1 piece
1/4" PT Connector	1 piece



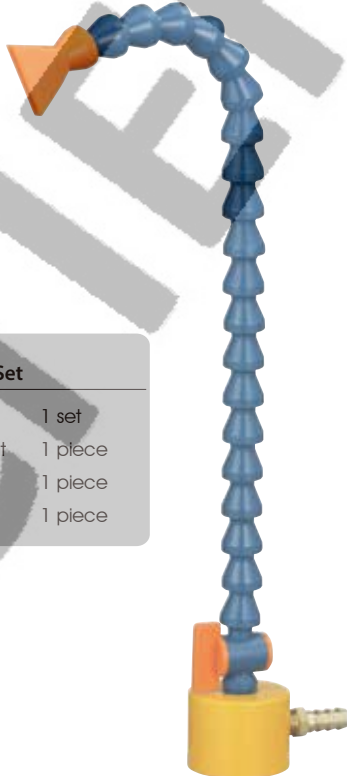
88005 Magnetic Set

Magnetic Base	1 set
10 pcs of 1/4" Segment	1 piece
1" Flare Nozzle	1 piece
1/4" Male PT Valves	1 piece



88103 Magnetic Set

Magnetic Base	1 set
20 pcs of 1/4" Segment	1 piece
1" Flare Nozzle	1 piece
1/4" PT Connector	1 piece



88105 Magnetic Set

Magnetic Base	1 set
20 pcs of 1/4" Segment	1 piece
1" Flare Nozzle	1 piece
1/4" Male PT Valves	1 piece

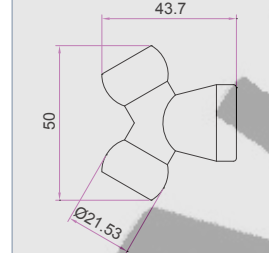
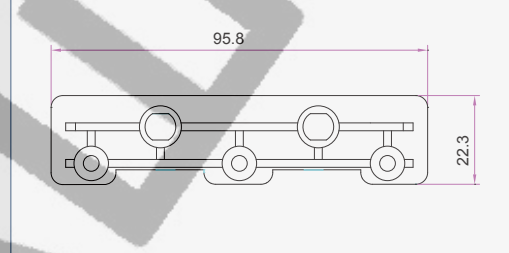
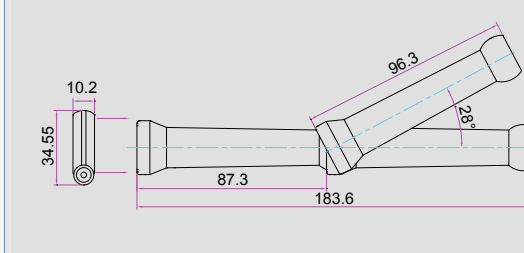
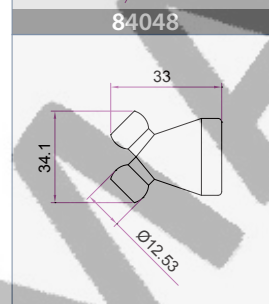
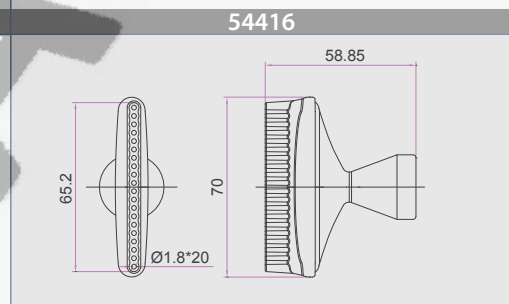
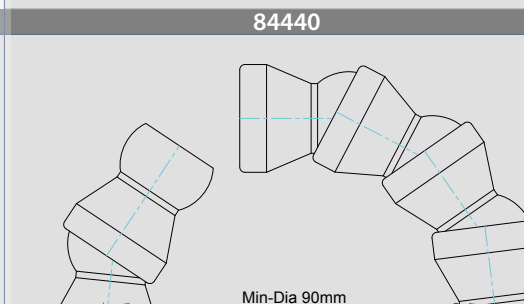
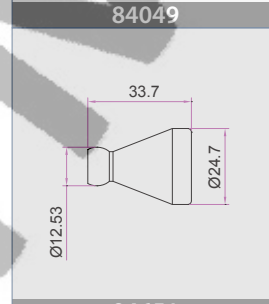
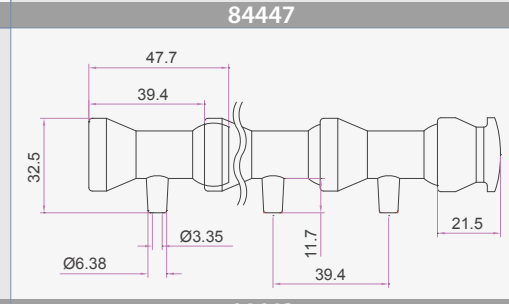
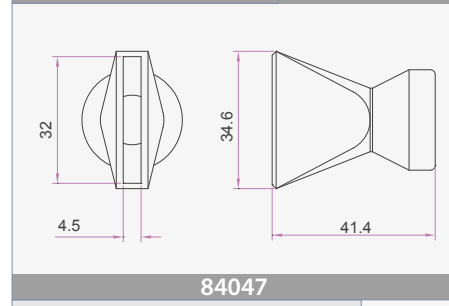
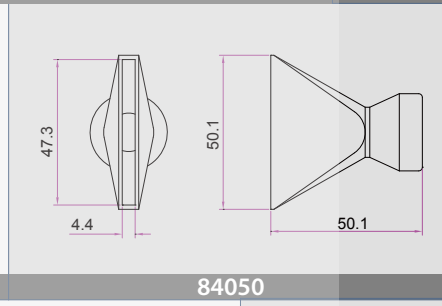
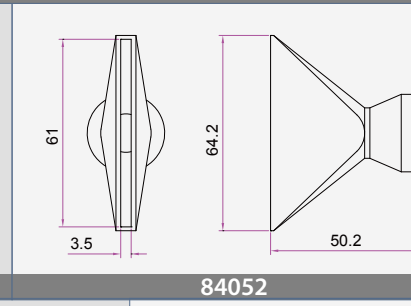
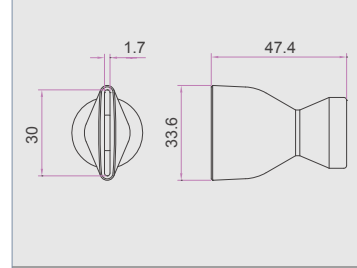
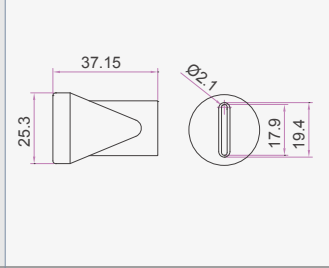
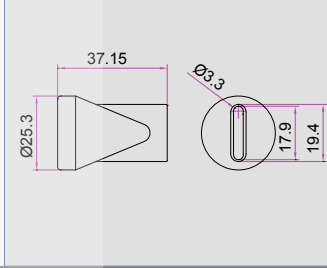
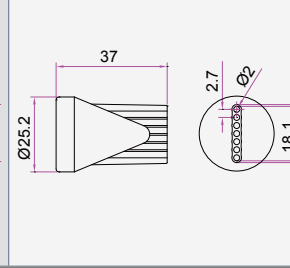
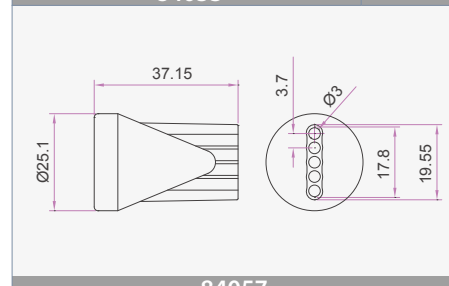
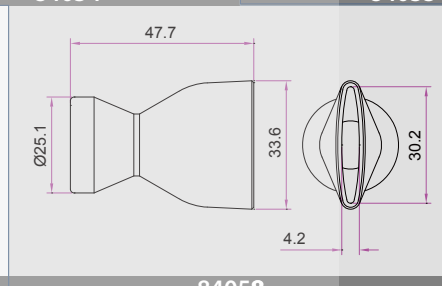
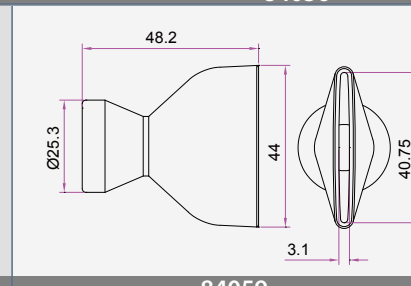
1/4" SYSTEM & SPECIFICATION

 82021+82021	 82022	 82722	 82226	 62426
 82025	 82014	 82023	 82723	 62423
 82026	 82028	 82024	 82724	 52416
 82029	 82011	 82223	 82224	 82228
 82012	 62420	 82725	 82225	 82229
 82052	 82027	 82017	 82220	 82227
 82053	 82054	 82055	 82056	 82057

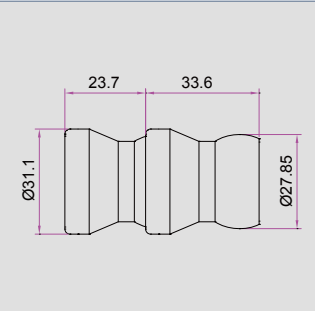
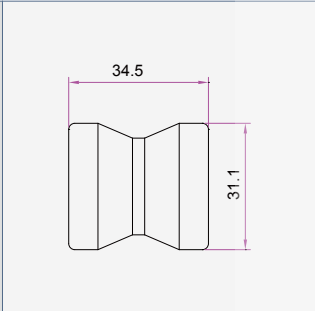
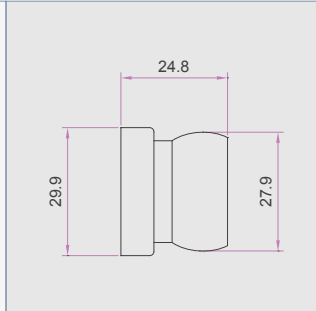
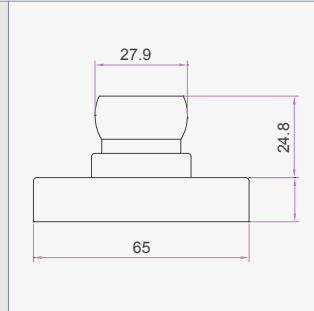
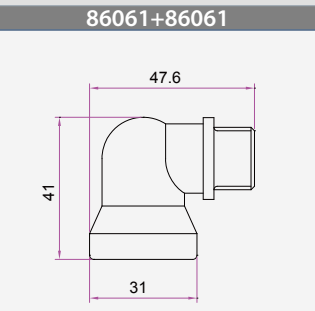
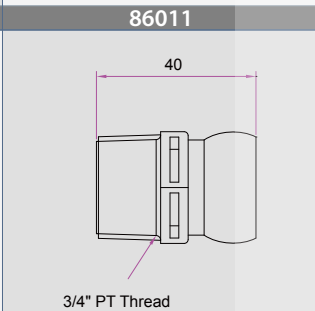
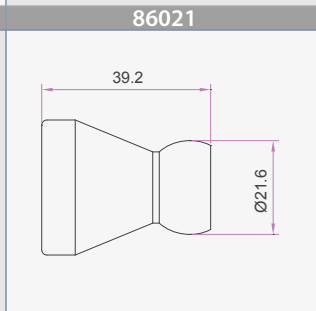
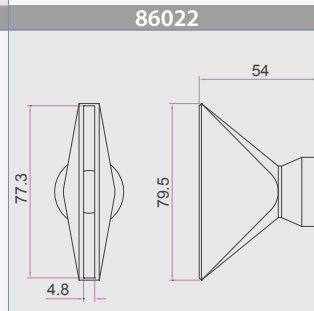
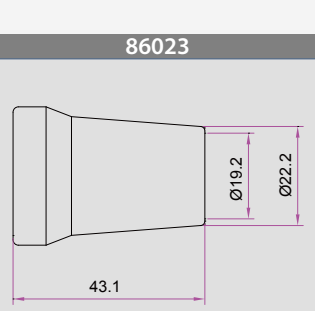
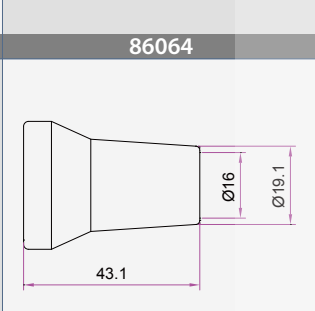
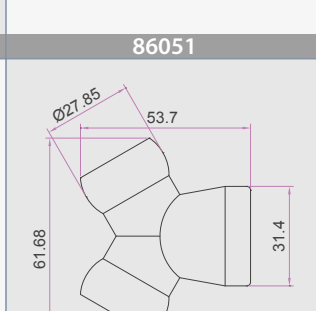
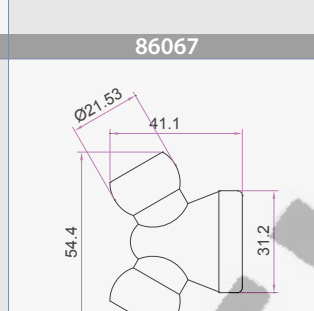
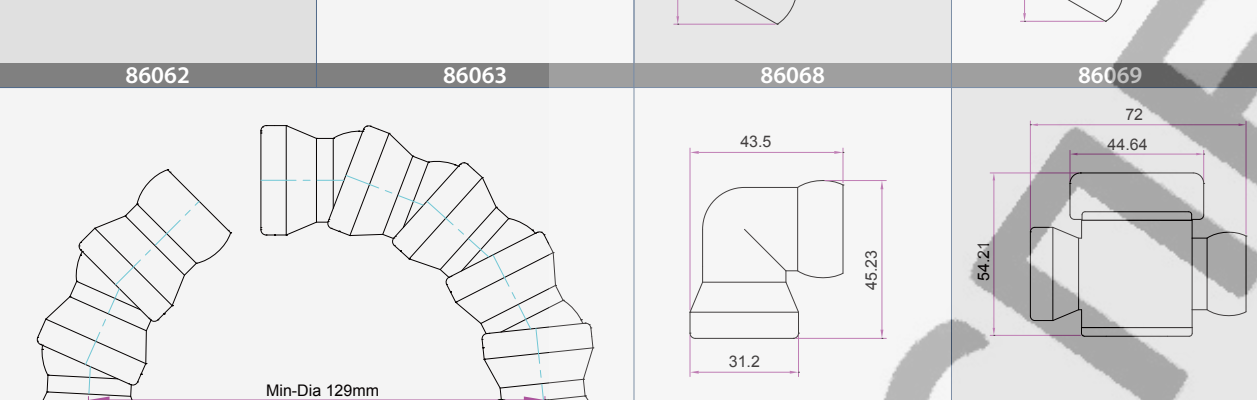
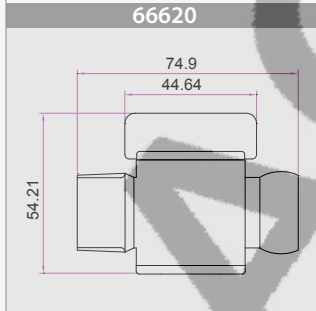
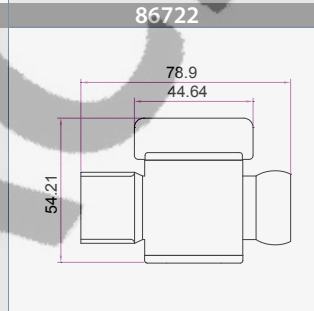
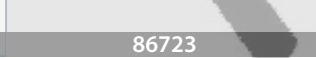

3/8" SYSTEM & SPECIFICATION

1/2" SYSTEM & SPECIFICATION

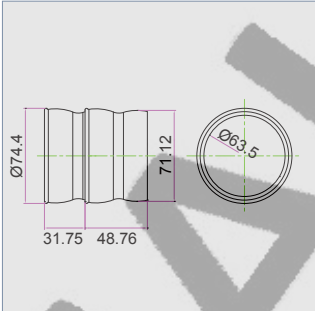
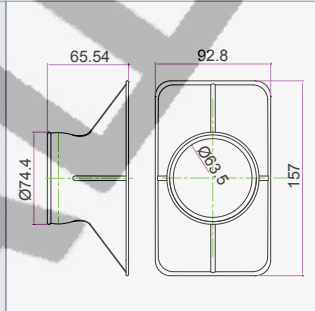
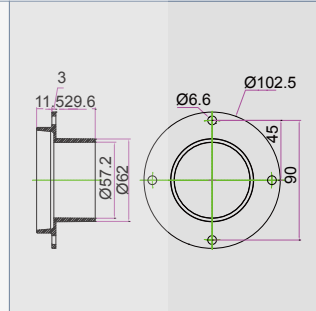
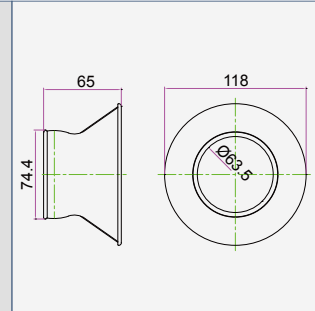
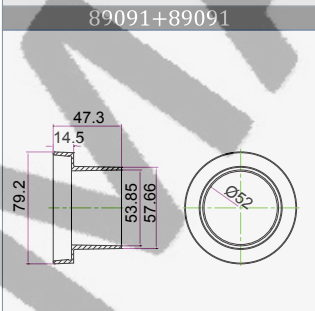
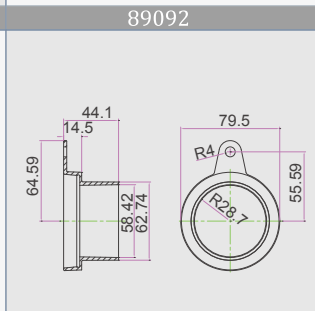
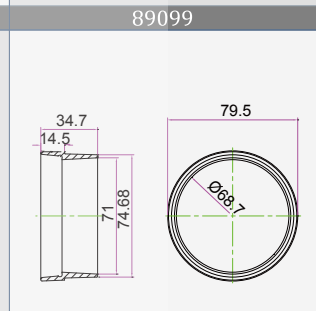
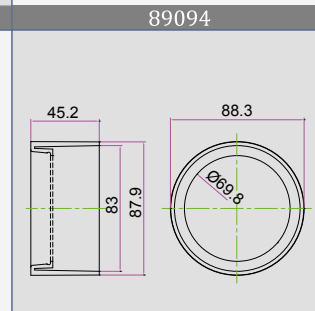
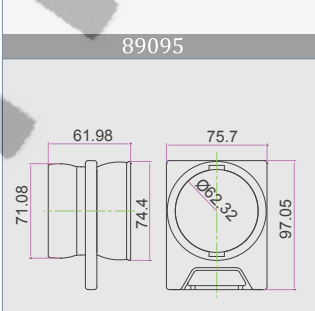
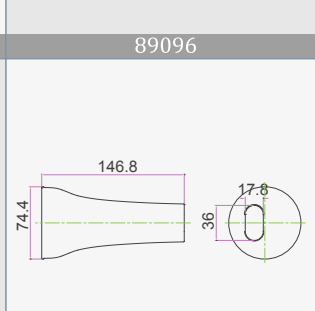
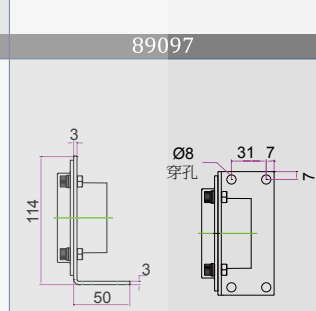
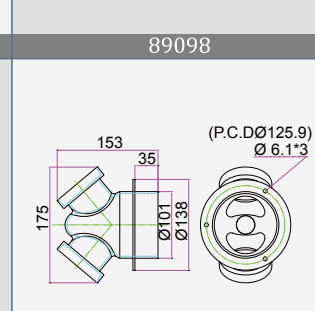
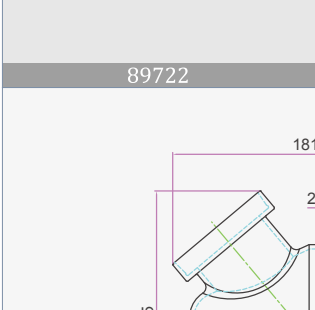
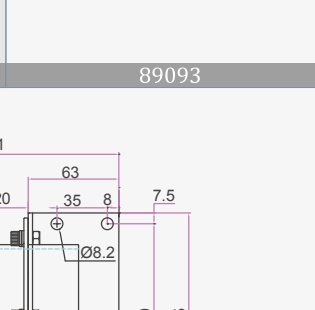
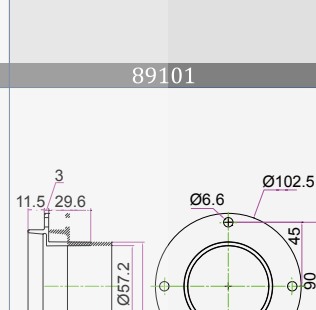
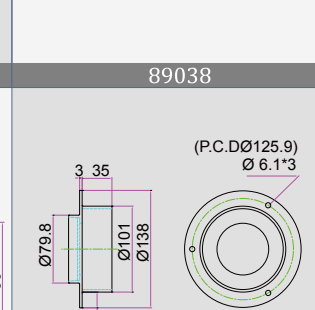
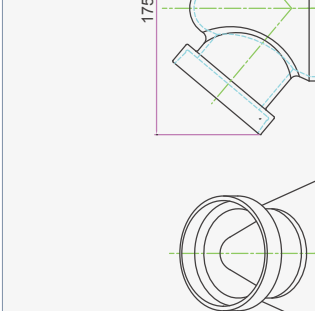
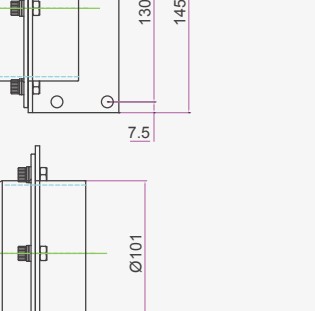
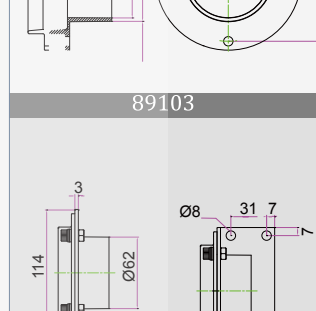
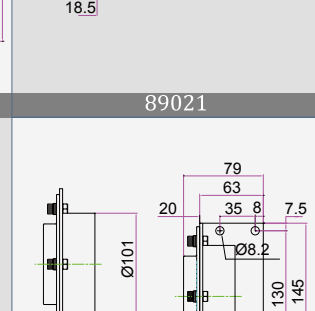
1/2" SYSTEM & SPECIFICATION

 <p>84048</p>	 <p>54416</p>	 <p>84440</p>
 <p>84049</p>	 <p>84447</p>	 <p>Min-Dia 90mm</p>
 <p>84651</p>	 <p>64643</p>	
 <p>84047</p>	 <p>84050</p>	 <p>84052</p>
 <p>84053</p>	 <p>84054</p>	 <p>84055</p>
 <p>84056</p>		
 <p>84057</p>	 <p>84058</p>	 <p>84059</p>

3/4" SYSTEM & SPECIFICATION

			
86061+86061	86011	86021	86022
			
86023	86064	86051	86067
			
86062	86063	86068	86069
			
			
66620	86722		
			
86723	86724		

2 1/2" SYSTEM & SPECIFICATION

			
89091+89091	89092	89099	89094
			
89095	89096	89097	89098
			
89722	89093	89101	89038
			
89103	89021		
			
89099	89101	89102	