



Vacuum Flex Tube
Adjustable Coolant Hoses





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Adjustable Coolant Hoses

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Adjustable Coolant Hoses

Adjustable Coolant Hose Introduction

Length and angle can be freely adjusted, suitable for most fluids (liquids and gases), hose orifice can be changed as needed.
Can be used for air or for water/oil supply to metal processing machinery.

- ▶ Made using superior DuPont Delrin material; is strongly resistant to oils and chemicals.
- ▶ Adjustable Coolant Hose is highly pliable; it holds its shape well and will not spring back.
- ▶ Bending hose will not reduce inner diameter; hose will not pinch or fatigue.
- ▶ Adjustable Coolant Hose will not damage cutting blades if there is accidental contact.
- ▶ Adjustable Coolant Hose does not conduct electricity and is suitable for use on electrical discharge (EDM) machines.
- ▶ Five kinds of orifice inner diameter are available: 1/4", 3/8", 1/2", 3/4", 2 1/2".
- ▶ Adjustable Coolant Hose is designed for the transport of low-pressure fluids.



Hose Pressure and Flow Characteristics

1/4" SYSTEM	2.0~3.0 kg/cm ²	900 Liter / Hour
3/8" SYSTEM	2.0~3.0 kg/cm ²	1500 Liter / Hour
1/2" SYSTEM	1.4~2.0 kg/cm ²	1700 Liter / Hour
3/4" SYSTEM	0.7~1.4 kg/cm ²	1900 Liter / Hour

Recommended Usage

- ▶ When using Adjustable Coolant Hose, changes in the situation may affect the maximum pressure. It is recommended that tests be performed whenever changes are made.

Thermal Characteristics

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

Adjustable Coolant Hose Packaging

Adjustable Coolant Hose is available in cardboard boxes, bags, and coils to meet customers' specific needs.



LIST OF SUITABLE FLUIDS

Ordinary Adjustable Coolant Hoses are manufactured from acetal . Hose is available in dark blue and orange colors.

ITEM	SUITABLE	UNSUITABLE
ALCOHOLS, ETHYL	○	
ACETONE	○	
COMMERCIAL DISHDETERGENTS	○	
GASOLINE	○	
GREASES	○	
LACQUER SOLVENTS	○	
OILS	○	
SODIUM HYDROXIDE	○	
INSECTICIDES	○	
BRAKE OILS	○	
ACIDS		×
BASES, STRONG		×
AMMONIUM HYDROXIDE(STRONG)		×
HYPOCHLORITE LON SOLUTIONS		×
SODIUM HYPOCHLORITE		×

**Adjustable Coolant
Hose Packaging**



Length Calculation Method

Adjustable Coolant Hoses Length Calculation Method Sample Calculations

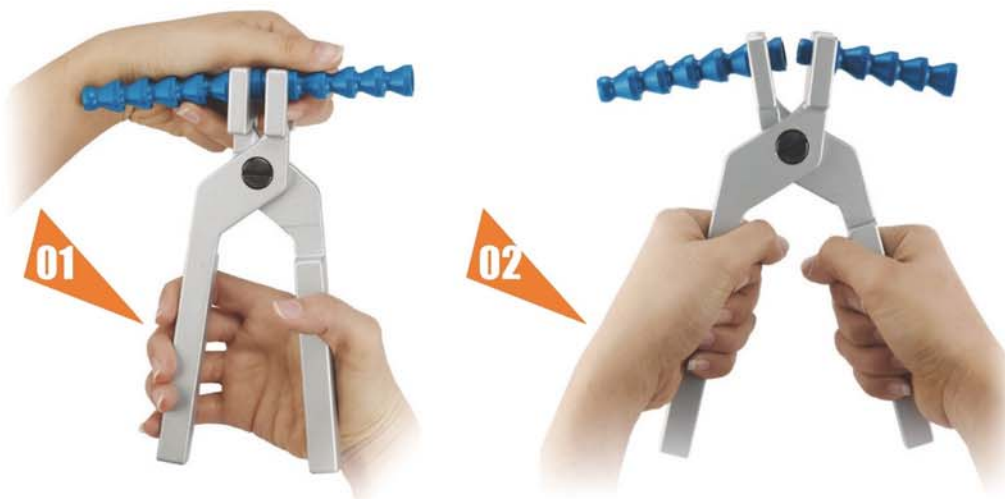


$$\begin{array}{ccccc} \text{Connector Size} & + & \text{Effective Hose Size} & + & \text{Nozzle} & = & \text{Total Length} \\ (A) & & (B \times \text{Number of inter locking pieces}) & & (C) & & \end{array}$$

- ▶ **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.

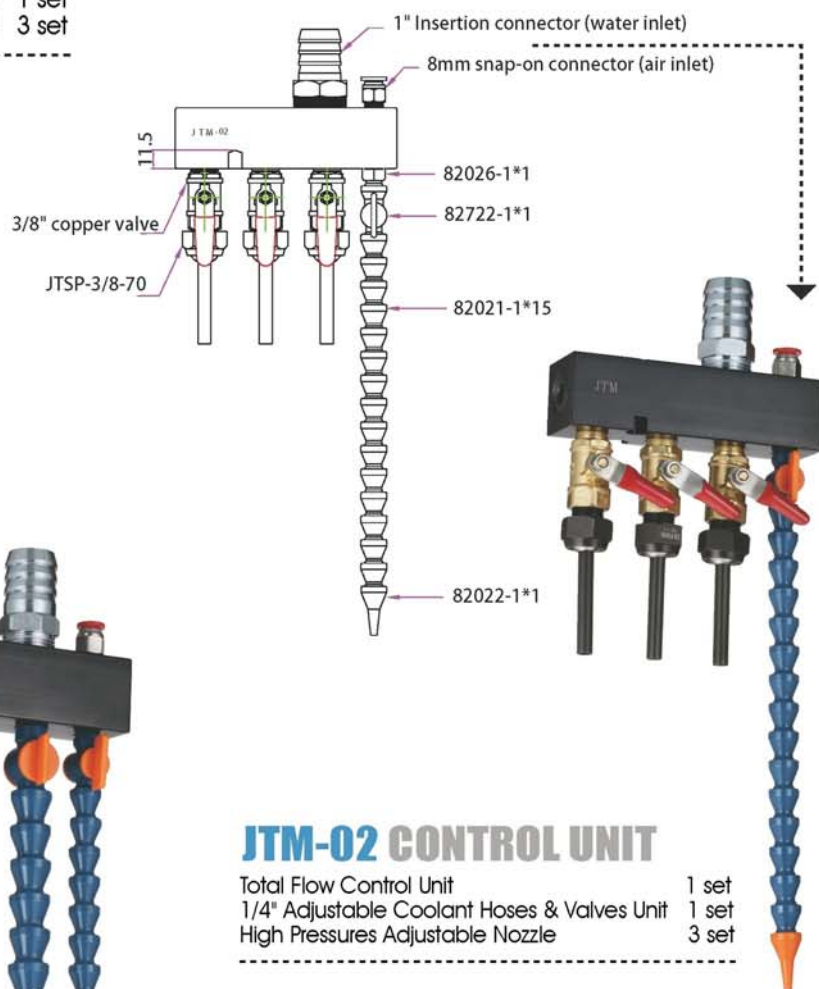
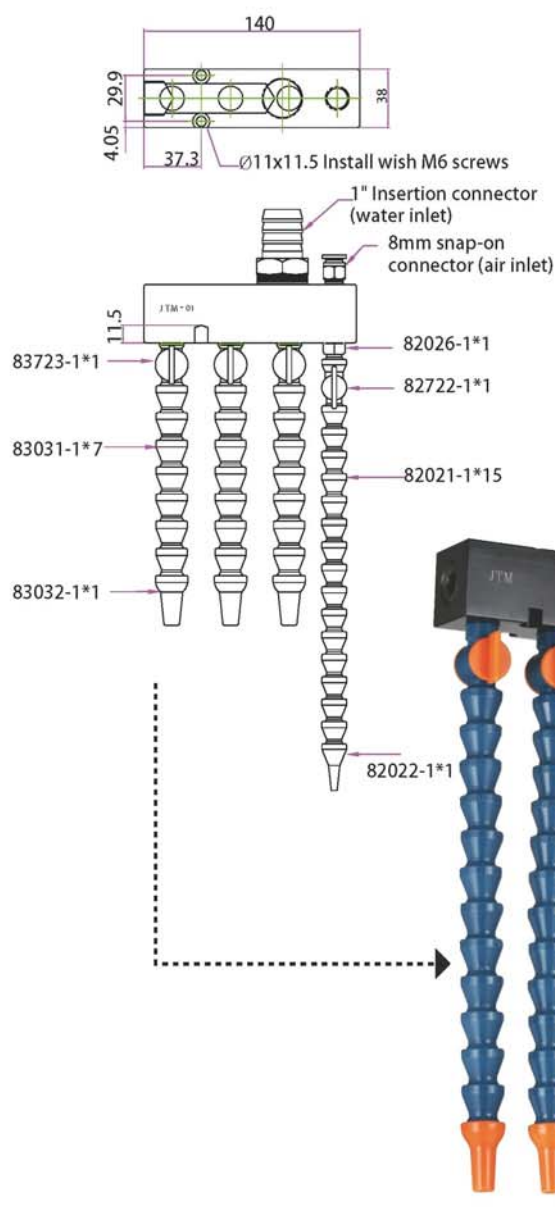


Total Flow Control Unit

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

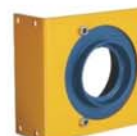
Total Flow Control Unit 1 set
1/4" Adjustable Coolant Hoses & Valves Unit 1 set
High Pressures Adjustable Nozzle 3 set

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.

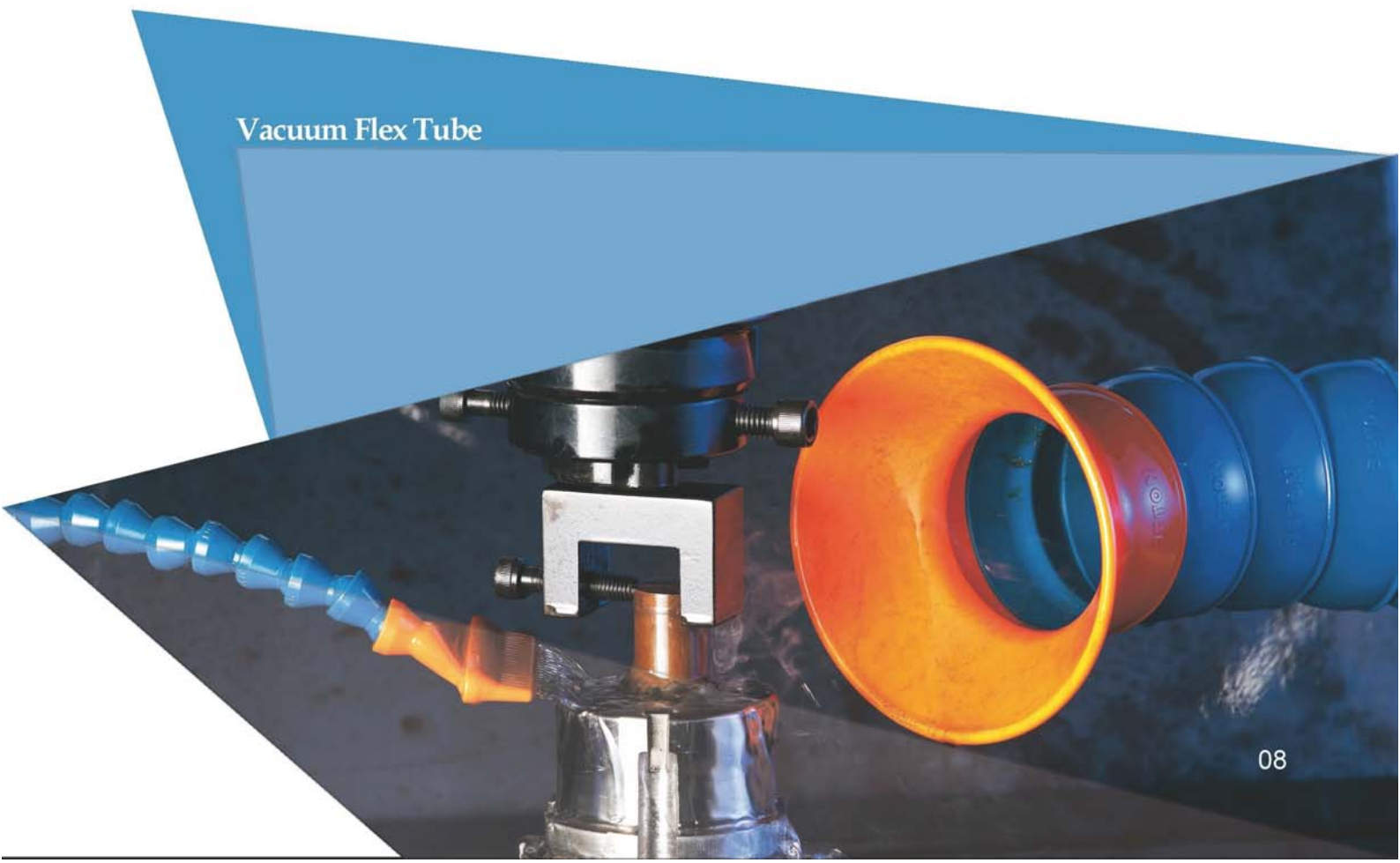
TEMPERATURE SPECIFICATIONS

- ▶ 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 Valve



► Polymorphic Connector

83038

3/8" Y Fitting



83011

3/8" Double Socket



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

1-1/4" Flare Nozzle



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
	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
	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		82055	1/4" Flat Slot 60 Nozzle, pack of 2
	82220	1/4" Extended Element Kit Element Clamps include 4 each of: 1/4" Extended Elements 1/4" Element Clamps		82042	1/16" Round Nozzle, pack of 50		82075	1/4" Flat Slot 60 Nozzle, pack of 20
	82021	1/4" Segment Pack 15 CM - 2 sets		82023	1/8" Round Nozzle, pack of 4		82056	1/4" Flat Slot 7 Hole Nozzle, pack of 2
	82051 82071	1/4" Segment Pack 1524 CM Coil 2500 CM Coil		82043	1/8" Round Nozzle, pack of 50		82076	1/4" Flat Slot 7 Hole Nozzle, pack of 20
	62423	1/4" Circle Flow Nozzle Kit Assembled with 15 pcs of 1/4" Side Flow Nozzles & 1 pc of 1/4" End Cap		82024	1/4" Round Nozzle, pack of 4		82057	1/4" Flat Slot 5 Hole Nozzle, pack of 2
	82221 82241	1/4" Extended Element, pack of 4 1/4" Extended Element, pack of 20		82044	1/4" Round Nozzle, pack of 50		82077	1/4" Flat Slot 5 Hole Nozzle, pack of 20
	82222 82242	1/4" Element Clamp, pack of 4 1/4" Element Clamp, pack of 20		82223	1/16" 90° Nozzle, pack of 4		82053	1" Straight Flow Nozzle, pack of 2
				82243	1/16" 90° Nozzle, pack of 20		82073	1" Straight Flow Nozzle, pack of 20
				82224	1/8" 90° Nozzle, pack of 4		82025	1/8" PT Connector, pack of 4
				82244	1/8" 90° Nozzle, pack of 20		82035	1/8" PT Connector, pack of 50
				82225	1/4" 90° Nozzle, pack of 4		82025A	1/8" NPT Connector, pack of 4
				82245	1/4" 90° Nozzle, pack of 20		82035A	1/8" NPT Connector, pack of 50
				82226	1/4" 90° Spray Bar Nozzle, pack of 2		82026	1/4" PT Connector, pack of 4
				82246	1/4" 90° Spray Bar Nozzle, pack of 20		82036	1/4" PT Connector, pack of 50
				82017	3/8" Flat Nozzle, pack of 2		82026A	1/4" NPT Connector, pack of 4
				82037	3/8" Flat Nozzle, pack of 20		82036A	1/4" NPT Connector, pack of 50
				82027	1" Flare Nozzle, pack of 2		82029	1/4" PT Connector, pack of 4
				82047	1" Flare Nozzle, pack of 20		82039	1/4" PT Connector, pack of 50

Picture	Item	Description
	82028	1/4" Y Fitting, pack of 2
	82038	1/4" Y Fitting, pack of 20
	82011	1/4" Double Socket, pack of 4
	82031	1/4" Double Socket, pack of 20
	82012	1/4" Socket to 1/8" NPT, pack of 4
	82032	1/4" Socket to 1/8" NPT, pack of 20
	82052	1/4" Female PT Connector, pack of 4
	82072	1/4" Female PT Connector, pack of 50
	82052F	1/4" Female PF Connector, pack of 4
	82072F	1/4" Female PF Connector, pack of 50
	82062	1/4" Female NPTF Connector, pack of 4
	82082	1/4" Female NPTF Connector, pack of 50
	82013	5/8" Female UNF Connector, pack of 4
	82033	5/8" Female UNF Connector, pack of 20
	82014	7/16" Female UNF Connector, pack of 4
	82034	7/16" Female UNF Connector, pack of 20
	62420	1/4" Elbow Fitting, pack of 2
	62430	1/4" Elbow Fitting, pack of 20
	62426	1/4" T Fitting, pack of 2
	62436	1/4" T Fitting, pack of 20

Picture	Item	Description
	62422	1/4" Side Flow Nozzle, pack of 4
	62442	1/4" Side Flow Nozzle, pack of 20
	62424	1/4" End Cap, pack of 4
	62444	1/4" End Cap, pack of 20
	82227	2 1/2" Swivel Nozzle 75, pack of 2
	82247	2 1/2" Swivel Nozzle 75, pack of 20
	82228	1/4" Swivel Nozzle 40, pack of 2
	82248	1/4" Swivel Nozzle 40, pack of 20
	82229	1/4" Swivel Nozzle 60, pack of 2
	82249	1/4" Swivel Nozzle 60, pack of 20
	82721 A	1/4" NPT Male Hose Nipple Valve, pack of 2
	82731 A	1/4" NPT Male Hose Nipple Valve, pack of 10

	82722	1/4" Connection Valve, pack of 2
	82732	1/4" Connection Valve, pack of 10
	82723	1/4" Male PT Valve, pack of 2
	82733	1/4" Male PT Valve, pack of 10

Picture	Item	Description
	82723A	1/4" Male NPT Valve, pack of 2
	82733A	1/4" Male NPT Valve, pack of 10
	82724	1/4" Female PT Valve, pack of 2
	82744	1/4" Female PT Valve, pack of 10
	82724A	1/4" Female NPT Valve, pack of 2
	82744A	1/4" Female NPT Valve, pack of 10
	82725	1/4" In-Line Check Valve, pack of 2
	82745	1/4" In-Line Check Valve, pack of 10

	52400	1/4" Modular Manifold System
		1/4" Elbow Fitting - 1 piece
		1/4" Manifold Bracket - 1 piece
		1/4" T Fitting - 3 pcs
		Mounting Screws - 3 pcs

	52410	1/4" Main Flow Control Manifold System
		1/4" Modular Manifold - 1 set
		1/4" Connection Valve - 5 pcs

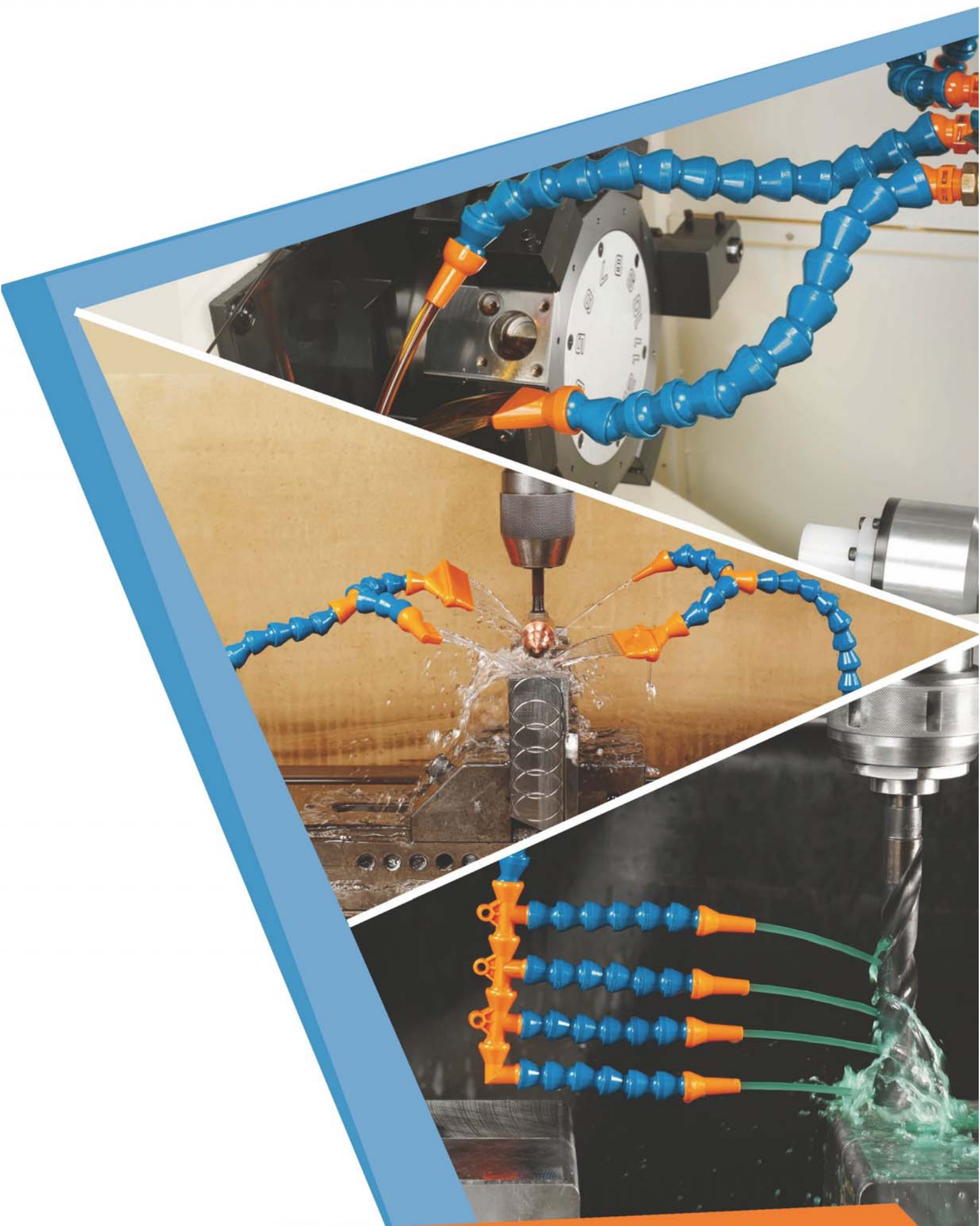
	52416	1/4" Manifold Bracket, pack of 2
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	26171	1/4" Hose Assembly Pliers
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3/8" System (3/8" Inside Diameter)

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
				83053	3/8" Round Nozzle, pack of 50		83041	3/8" Double Socket, pack of 20
	83030A	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzle 3/8" Male NPT Connector		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		83851	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 83057	1 1/4" Flare Nozzle, pack of 2 1 1/4" Flare Nozzle, pack of 20		83724A 83744A	3/8" Female NPT Valve, pack of 2 3/8" Female NPT Valve, pack of 10





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

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
	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		84074	1/2" Flat Slot 40 Nozzle, pack of 20
	84440	1/2" Extended Element Kit with Element Clamps Includes 4 each of: 1/2" Extended Elements 1/2" Element Clamps		84064	1/4" Round Nozzle, pack of 50		84055 84075	1/2" Flat Slot 60 Nozzle, pack of 2 1/2" Flat Slot 60 Nozzle, pack of 20
	84041	1/2" Segment Pack 13.5 CM - 2 sets		84042 84062	3/8" Round Nozzle, pack of 4 3/8" Round Nozzle, pack of 50		84056 84076	1/2" Flat Slot 7 Hole Nozzle, pack of 2 1/2" Flat Slot 7 Hole Nozzle, pack of 20
	84081 84091	1/2" Segment Pack 1524 CM Coil 2500 CM Coil		84043 84063	1/2" Round Nozzle, pack of 4 1/2" Round Nozzle, pack of 50		84057 84077	1/2" Flat Slot 5 Hole Nozzle, pack of 2 1/2" Flat Slot 5 Hole Nozzle, pack of 20
	64643	1/2" Circle Flow Nozzle Kit Assemble with 15 pcs of 1/2" Side Flow Nozzles & 1 pc of 1/2" End Cap		84443 84463	1/4" 90° Nozzle, pack of 4 1/4" 90° Nozzle, pack of 20		84058 84078	1 1/4" Straight Flow Nozzle, pack of 2 1 1/4" Straight Flow Nozzle, pack of 20
	84441 84461	1/2" Extended Element, pack of 4 1/2" Extended Element, pack of 20		84444 84464	3/8" 90° Nozzle, pack of 4 3/8" 90° Nozzle, pack of 20		84059 84079	1 5/8" Straight Flow Nozzle, pack of 2 1 5/8" Straight Flow Nozzle, pack of 20
	84442 84462	1/2" Extended Clamp, pack of 4 1/2" Extended Clamp, pack of 20		84445 84465	1/2" 90° Nozzle, pack of 4 1/2" 90° Nozzle, pack of 20		84047 84067	1 1/4" Flare Nozzle, pack of 2 1 1/4" Flare Nozzle, pack of 20
				84446 84466	1/2" 90° Spray Bar Nozzle, pack of 2 1/2" 90° Spray Bar Nozzle, pack of 20		84050 84070	1 3/4" Flare Nozzle, pack of 2 1 3/4" Flare Nozzle, pack of 20
							84052 84072	2 1/2" Flare Nozzle, pack of 2 2 1/2" Flare Nozzle, pack of 20

Picture	Item	Description
	84447	2 1/2" Swivel Nozzle 75 for 1/2", pack of 2
	84467	2 1/2" Swivel Nozzle 75 for 1/2", pack of 20

	84046	3/8" PT Connector, pack of 4
	84066	3/8" PT Connector, pack of 50

	84046A	3/8" NPT Connector, pack of 4
	84066A	3/8" NPT Connector, pack of 50

	84045	1/2" PT Connector, pack of 4
	84065	1/2" PT Connector, pack of 50

	84045A	1/2" NPT Connector, pack of 4
	84065A	1/2" NPT Connector, pack of 50

	84048	1/2" Y Fitting, pack of 2
	84068	1/2" Y Fitting, pack of 20

	84049	1/2" to 1/4" Y Reducer, pack of 2
	84069	1/2" to 1/4" Y Reducer, pack of 20

	84651	1/2" to 1/4" Adapter, pack of 2
	84851	1/2" to 1/4" Adapter, pack of 20

	84011	1/2" Double Socket, pack of 4
	84031	1/2" Double Socket, pack of 20

Picture	Item	Description
	64620	1/2" Elbow Fitting, pack of 2
	64640	1/2" Elbow Fitting, pack of 20

	64626	1/2" T Fitting, pack of 2
	64646	1/2" T Fitting, pack of 20

	64622	1/2" Side Flow Nozzle, pack of 4
	64642	1/2" Side Flow Nozzle, pack of 20

	64624	1/2" End Cap, pack of 4
	64644	1/2" End Cap, pack of 20

	84722	1/2" Connection Valve, pack of 2
	84742	1/2" Connection Valve, pack of 10

	84723	1/2" Male PT Valve, pack of 2
	84743	1/2" Male PT Valve, pack of 10

	84723A	1/2" Male NPT Valve, pack of 2
	84743A	1/2" Male NPT Valve, pack of 10

	84724	1/2" Female PT Valve, pack of 2
	84744	1/2" Female PT Valve, pack of 10

	84724A	1/2" Female NPT Valve, pack of 2
	84744A	1/2" Female NPT Valve, pack of 10

Picture	Item	Description
	84725	1/2" In-Line Check Valve, pack of 2
	84745	1/2" In-Line Check Valve, pack of 10

	84013	3/8" SAE Flare Nut Adapter(5/8"-18 Thread), pack of 4
	84033	3/8" SAE Flare Nut Adapter(5/8"-18 Thread), pack of 20

	54400	1/2" Modular Manifold System
		1/2" Elbow Fitting - 1 piece
		1/2" Manifold Bracket - 1 piece
		1/2" T Fitting - 3 pcs Mounting Screws - 3 pcs

	54410	1/2" Main Flow Control Manifold System
		1/2" Modular Manifold - 1 set
		1/2" Connection Valve - 5 pcs

	54416	1/2" Manifold Bracket, pack of 2
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	26172	1/2" Hose Assembly Pliers
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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 86074A	3/4" NPT Connector, pack of 4 3/4" NPT Connector, pack of 50		86011 86031	3/4" Double Socket, pack of 4 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 66640	3/4" Elbow Fitting, pack of 2 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 86742	3/4" Connection Valve, pack of 2 3/4" Connection Valve, pack of 10
	86081 86091	3/4" Segment Pack 1524 CM Coil 2500 CM Coil		86023	Shield Mounting Elbow, pack of 2		86723 86743	3/4" Male PT Valve, pack of 2 3/4" Male PT Valve, pack of 10
	86063 86073	5/8" Round Nozzle, pack of 4 5/8" Round Nozzle, pack of 50		86067 86077	3" Flare Nozzle, pack of 2 3" Flare Nozzle, pack of 20		86723A 86743A	3/4" Male NPT Valve, pack of 2 3/4" Male NPT Valve, pack of 10
	86062 86072	3/4" Round Nozzle, pack of 4 3/4" Round Nozzle, pack of 50		86068 86078	3/4" Y Fitting, pack of 2 3/4" Y Fitting, pack of 20		86724 86744	3/4" Female PT Valve, pack of 2 3/4" Female PT Valve, pack of 10
	86062 86072	3/4" Round Nozzle, pack of 4 3/4" Round Nozzle, pack of 50		86069 86079	3/4" to 1/2" Y Reducer, pack of 2 3/4" to 1/2" Y Reducer, pack of 20		86724A 86744A	3/4" Female NPT Valve, pack of 2 3/4" Female NPT Valve, pack of 10
	86064 86074	3/4" PT Connector, pack of 4 3/4" PT Connector, pack of 50		86051 86071	3/4" to 1/2" Adapter, pack of 2 3/4" to 1/2" Adapter, pack of 20		26177	3/4" Hose Assembly Pliers

Adjustable Coolant Hoses & Valves



62720 36cm Length Hose Kit

1/4" Male PT or NPT Valve	1 piece
20 pcs of 1/4" Segment	1 piece
1/16", 1/8" or 1/4" Round Nozzle	1 piece

1/4"

62721 36cm Length Hose Kit

1/4" Female PT or NPT Valve	1 piece
20 pcs of 1/4" Segment	1 piece
1/16", 1/8" or 1/4" Round Nozzle	1 piece



63720 36cm Length Hose Kit

3/8" Male PT or NPT Valve	1 piece
16 pcs of 3/8" Segment	1 piece
1/4", 3/8" or 1/2" Round Nozzle	1 piece

3/8"

63721 36cm Length Hose Kit

3/8" Female PT or NPT Valve	1 piece
16 pcs of 3/8" Segment	1 piece
1/4", 3/8" or 1/2" Round Nozzle	1 piece



64720 35cm Length Hose Kit

1/2" Male PT or NPT Valve	1 piece
12 pcs of 1/2" Segment	1 piece
1/4", 3/8" or 1/2" Round Nozzle	1 piece

1/2"

64721 35cm Length Hose Kit

1/2" Female PT or NPT Valve	1 piece
12 pcs of 1/2" Segment	1 piece
1/4", 3/8" or 1/2" Round Nozzle	1 piece



66720 40cm Length Hose Kit

3/4" Male PT or NPT Valve	1 piece
12 pcs of 3/4" Segment	1 piece
5/8" or 3/4" Round Nozzle	1 piece

3/4"

66721 40cm Length Hose Kit

3/4" Female PT or NPT Valve	1 piece
12 pcs of 3/4" Segment	1 piece
5/8" or 3/4" Round Nozzle	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

LIST 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



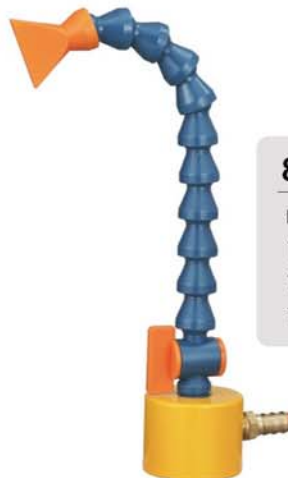
87002 Magnetic Set (Magnetic Force On-Off)

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

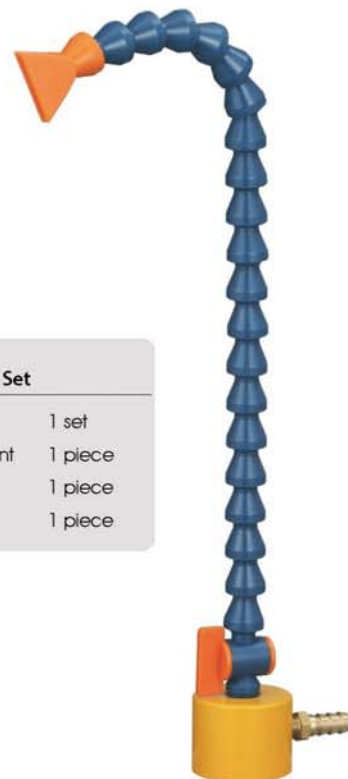


88103 Magnetic Set

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

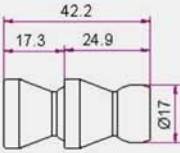
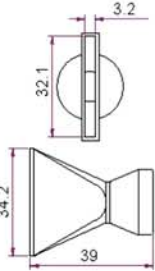
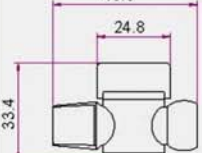
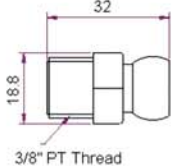
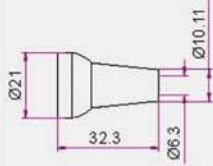
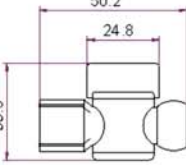
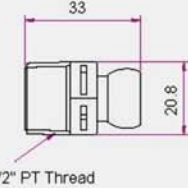
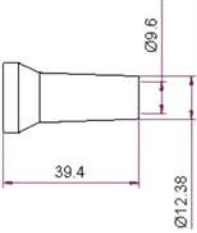
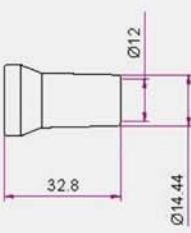
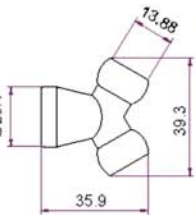
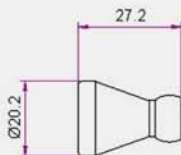
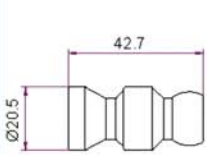
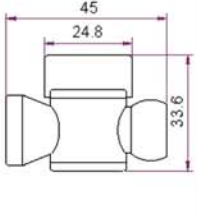
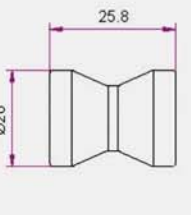
Magnetic Base	1 set
20 pcs of 1/4" Segment	1 piece
1" Flare Nozzle	1 piece
1/4" Male PT Valves	1 piece



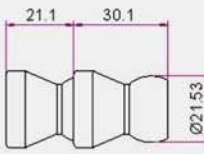
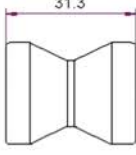
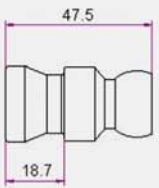
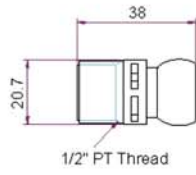
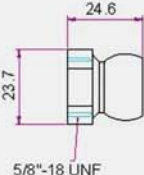
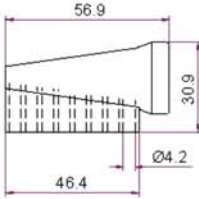
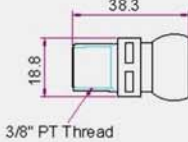
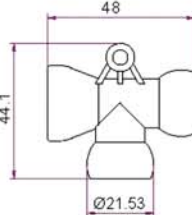
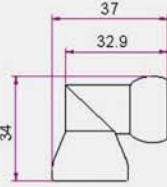
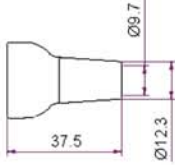
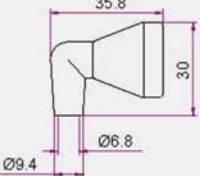
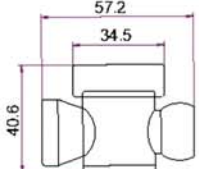
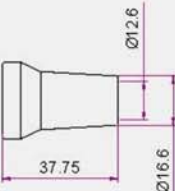
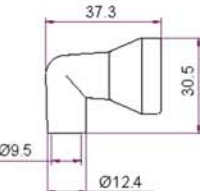
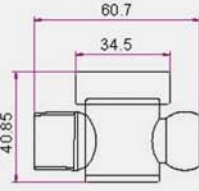
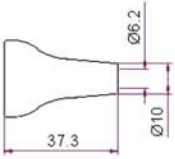
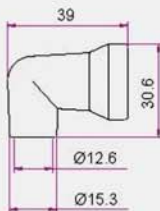
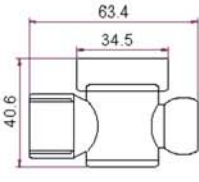
1/4" SYSTEM & SPECIFICATION

82021+82021		82022	82722	82226	62426
82025	82014	82023	82723	62423	
82026	82028	82024	82724	52416	82013
82029	82011	82223	82224	82228	
82012	62420	82725	82225	82229	
82052	82027	82017	82220		82227
82053	82054	82055	82056	82057	

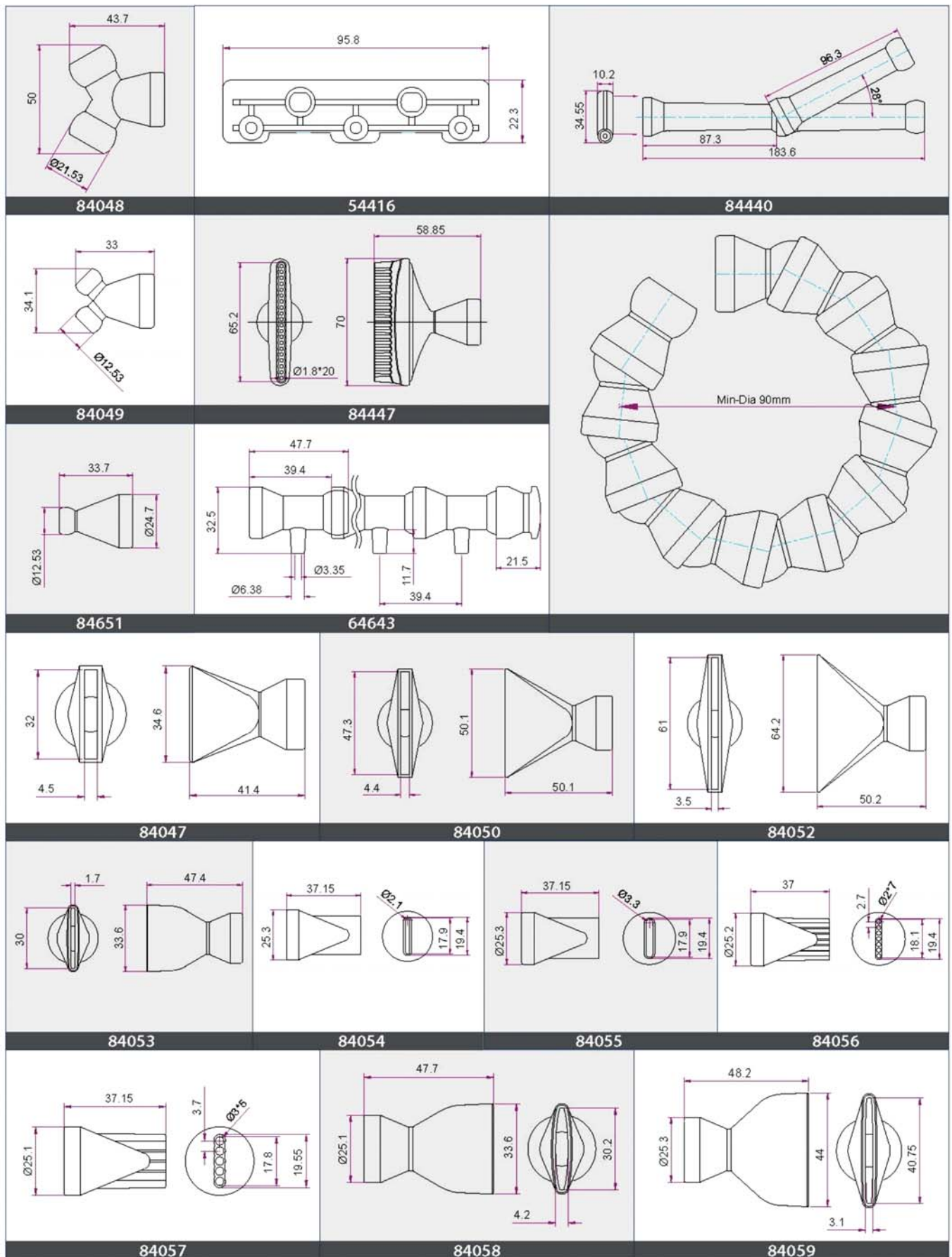
3/8" SYSTEM & SPECIFICATION

		
83031+83031	83037	83723
		
83035	83032	83724
		
83036	83033	83034
		
83038	83651	83725
		
Min-Dia 89mm	83722	83011

1/2" SYSTEM & SPECIFICATION

		
84041+84041	84011	84725
		
84045	84013	84446
		
84046	64626	64620
		
84042	84442	84722
		
84043	84443	84723
		
84044	84445	84724

1/2" SYSTEM & SPECIFICATION



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

Technical drawing of part 89091+89091. Side view shows a stepped cylindrical profile with dimensions: total height 71.12, top section height 31.75, bottom section height 48.76, and outer diameter Ø74.4. End view shows an inner diameter of Ø63.5.	Technical drawing of part 89092. Side view shows a flange with a central hole, dimensions: flange height 65.54, total width 92.8, outer diameter Ø74.4, and inner diameter Ø63.5. End view shows a rectangular profile with a width of 157.	Technical drawing of part 89099. Side view shows a small flange with dimensions: flange height 3, total height 11.5, and a central hole with diameter Ø57.2. End view shows a circular profile with an outer diameter of Ø102.5, an inner diameter of Ø6.6, and a central hole with diameter Ø62. The distance from the center to the hole edge is 45, and the hole diameter is 90.	Technical drawing of part 89094. Side view shows a flange with a central hole, dimensions: flange height 65, total width 118, outer diameter Ø74.4, and inner diameter Ø63.5. End view shows a circular profile with an outer diameter of Ø63.5.
89091+89091	89092	89099	89094
Technical drawing of part 89095. Side view shows a flange with a central hole, dimensions: flange height 47.3, total height 79.2, outer diameter Ø52, and inner diameter Ø52. End view shows a circular profile with an outer diameter of Ø52.	Technical drawing of part 89096. Side view shows a flange with a central hole, dimensions: flange height 44.1, total height 64.59, outer diameter Ø52, and inner diameter Ø52. End view shows a circular profile with an outer diameter of Ø52, an inner diameter of Ø52, and a central hole with diameter Ø52. The distance from the center to the hole edge is 79.5, and the hole diameter is 55.59.	Technical drawing of part 89097. Side view shows a flange with a central hole, dimensions: flange height 34.7, total height 71, outer diameter Ø68.7, and inner diameter Ø68.7. End view shows a circular profile with an outer diameter of Ø68.7.	Technical drawing of part 89098. Side view shows a flange with a central hole, dimensions: flange height 45.2, total height 83, outer diameter Ø69.8, and inner diameter Ø69.8. End view shows a circular profile with an outer diameter of Ø69.8.
89095	89096	89097	89098
Technical drawing of part 89722. Side view shows a flange with a central hole, dimensions: flange height 61.98, total height 71.08, outer diameter Ø62.32, and inner diameter Ø62.32. End view shows a circular profile with an outer diameter of Ø62.32.	Technical drawing of part 89093. Side view shows a flange with a central hole, dimensions: flange height 146.8, total height 74.4, outer diameter Ø62.32, and inner diameter Ø62.32. End view shows a circular profile with an outer diameter of Ø62.32.	Technical drawing of part 89101. Side view shows a flange with a central hole, dimensions: flange height 3, total height 114, outer diameter Ø8, and inner diameter Ø8. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø8. The distance from the center to the hole edge is 31.7, and the hole diameter is 7.	Technical drawing of part 89038. Side view shows a flange with a central hole, dimensions: flange height 153, total height 175, outer diameter Ø101, and inner diameter Ø138. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø6.1*3. The distance from the center to the hole edge is 153, and the hole diameter is 35.
89722	89093	89101	89038
Technical drawing of part 89099. Side view shows a flange with a central hole, dimensions: flange height 181, total height 63, outer diameter Ø8.2, and inner diameter Ø8.2. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø8.2. The distance from the center to the hole edge is 175, and the hole diameter is 130. The total width is 145, and the distance from the center to the hole edge is 7.5.	Technical drawing of part 89103. Side view shows a small flange with dimensions: flange height 3, total height 11.5, and a central hole with diameter Ø57.2. End view shows a circular profile with an outer diameter of Ø102.5, an inner diameter of Ø6.6, and a central hole with diameter Ø62. The distance from the center to the hole edge is 45, and the hole diameter is 90.	Technical drawing of part 89021. Side view shows a small flange with dimensions: flange height 3, total height 35, and a central hole with diameter Ø79.8. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø6.1*3. The distance from the center to the hole edge is 18.5, and the hole diameter is 35.	
89099	89103	89021	
Technical drawing of part 89101. Side view shows a flange with a central hole, dimensions: flange height 3, total height 114, outer diameter Ø8, and inner diameter Ø8. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø8. The distance from the center to the hole edge is 31.7, and the hole diameter is 7.	Technical drawing of part 89102. Side view shows a flange with a central hole, dimensions: flange height 79, total height 63, outer diameter Ø8.2, and inner diameter Ø8.2. End view shows a circular profile with an outer diameter of Ø101, an inner diameter of Ø138, and a central hole with diameter Ø8.2. The distance from the center to the hole edge is 175, and the hole diameter is 130. The total width is 145, and the distance from the center to the hole edge is 7.5.		
89101	89102		



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