ADSENS AIGNEP AIRCOM AIR TAC **ALLEN AIR AMERICAN CYLINDERS ARGO HYTOS AURORA AIR PRODUCTS AZBIL / YAMATAKE BEHRINGER BONNELL T-SLOTS BURKERT** CKD **CONVUM** CONVAL VACUUM **DALTON BEARINGS** DORNER **DURAVALVE DWYER DYNAMCO** DYNAMIC **FABCO FESTO FOSTER MFG** FREELIN WADE **GRACO HTM SENSORS HUMPHREY PRODUCTS** IFM EFFECTOR **ESP GAUGES IKO BEARINGS** ITT ENIDINE **JANTICS KOGANEI** LYNCH **JORC** MANNESMANN DEMAG MASTER PNEUMATIC MAX-AIR MEM-CO **METAL WORK** MIDLAND METAL **MILLIBAR** MINDMAN AIRSTRA MP FILTRI **NASON NO SHOK** MURR **ON-ROBOT PNEUCON PNEUMADYNE POLYCONN** PREVOST AIR PIPING **PROPORTION AIR** REELCRAFT **ROBOTIQ ROBOWORLD SENSOPART** S-LOK **SPARTAN SCIENTIFIC** SPC STARCYL SPC STC STUCCHI **SURE GRIP TPC PNEUMATICS** TSII TWIN TEC **ULTRA CLEAN** VACCON **VAC MOTION VENTION VIBCO VIBRATORS** VI-CAS

16083 N. Franklin Blvd. Ste. 4 Nampa, ID 83687

Phone: 208-461-7153 Fax: 208-461-7901

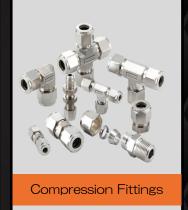
ORIES ACTUATORS AIRLINE SYSTEMS AIR PREPARATION ALUMINUM EXTRUSIONS CONVEYORS ELECTRIC ACTUATORS FITTINGS HANDLING SYSTEMS HYDRAULICS INTEGRATION LINEAR GUIDES LUBRICATION PROCESS CONTROLS PROPORTIONAL CONTROLS SENSORS VALUE ADDED VALVES

Custom Huid Rower

Moving your business to the next level!

-Slot Fab Shop













HANDLING SYSTEMS HYDRAULICS

LINEAR GUIDES

LUBRICATION PROCESS CONTROLS

www.customfluidpwr.com

FEATURED PARTNERS

MACHINE TENDING / PALLETIZING





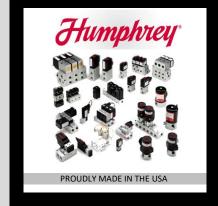




















Automated Solutions for All Your Machine Tending Needs











Locate and Pick Part

Move Part to Set Pattern or Stack

Detect Human Presence and Stop

Pick and Place: 8 Sec. Cycle Time Avg.

Easily Customized to your Application



You select components

Our Component Selection Guide makes it simple! Work with our experts to select the right cobot, stand, gripper and safety options to improve your current manual process for machine tending.



Built for you

Built with the most innovative products in the industry, your machine tending solution is built according to individual customer specifications. The result is tailored complete kitted solution built by expert engineers.



We ship it to you

Your complete custom-built machine tending kit will be shipped to you.



Most machine tending applications can be automated with the robot. We will deliver you a complete custom collaborative robot machine tending kit by combining multiple components with application-specific hardware and software to get closer to your solution.

PALLETIZING

Palletizing Solutions made Simple!

YOUR SOLUTIONS PARTNER

AUTOMATION TO SIMPLIFY YOUR LIFE



Easily Programed and Re-deployable

PRODUCTIVITY

Faster Output / Lower Costs

CONSISTENCY

Non-Stop / Repetitive / Reliable

See ROI in a Matter of Months

Streamline your palletizing with collaborative robots. Relieve workers from repetitive lifting by automating material handling tasks with collaborative robot arms. Automation helps you combat the rising costs of new products packaging, shortened product life cycles, and makes it easy to keep up with seasonal peaks despite labor shortages. There is a robot palletizer for various size boxes, cases, packages or products.





FX: 208-461-7901

PH: 208-461-7153

Highly Dynamic

HANDLING SYSTEMS

VALUE ADDED SOLUTIONS

Festo offers handling systems for a huge range of applications in handling and assembly technology.

Planar Surface Gantry EXCM



pact and flat for small working spaces

Compact Handling Systems YXMx



A basis for various desktop applications

Custom Fluid Power provides our customers a competitive advantage in the market place. In offering complete system design, kitting and assembly of your fluid power products, CFP will aid in stream-lining your production needs. CFP offers numerous value added specialty services to fit the individual needs of each



CONTROL BOXES

Pneumatic control boxes are custom designed and laid out to precisely fit your application. Control boxes can be designed





CUSTOM ASSEMBLY KITS

assembly kit, is how Custom Fluid Power stands out above the rest.





for CFP to build the same day



KITTING

you need in one easy 'GRAB-N-GO' location. Focusing on saving your company time and money.

T-SLOT FAB SHOP

your CAD Drawings and our team will cut and tap to your specifications. No more waiting weeks.

Linear Gantry



Optimum dynamic response with up to 90 picks / min

Parallel Kinematic System



High-speed handling for free movements in three dimensions

Control Package



Suitable for your highly dynamic system

Planar Surface Gantry



Large working space and high speeds

DORNER CONVEYORS





Dorner's wide variety of industrial, precision and sanitary conveyance solutions are designed to optimize your efficiency and productivity.











FLEXMOVE 1X SERIES 2X SERIES PALLET SYSTEMS

info@customfluidpwr.com



FESTO

MS Series Air Preparation Units

Port Sizes: 1/8" 1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"





Roll-flex Membrane

The new MS family of regulators with fiber-reinforced rolling membrane increases the flow rate and service of life dramatically. As a result, pressure drops and regulation failures are reduced, allowing your pneumatic system to function more reliably.



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			Nominal flow rate (range) [I/min]				
	Туре	Code	Size 4	Size 6	Size 12		
	Filter/Regulator-Lubricator	MSB-FRC	800-900	1700-3700			
	Combined Units	MSB	550-1300	1900-4500			
	Individual Devices	ndividual Devices					
	Filter/Regulator	MS-LFR	850-1700	2200-6200	11000-17000		
	Filters	MS-LF	1000-1700	200-4100	11500-16000		
	Fine and Micro Filters	MS-LFM	120-180	120-850	5000-7600		
	Activated Carbon Filters	MS-LFX	250	700-1200	4800-6000		
	Pressure Regulators	MS-LR	1000-2100	2400-7500	13000-22000		
	(for manifolds)	MS-LRB	1500-1900	5500-7300			
	Precision Pressure Regulators	MS-LRP		100-2100			
1	(for manifolds)	MS-LRPB		1600-5000			
	Electrical Pressure Regulators	MS-LRE		2200-7500			
	Lubricators	LOE	1100-2200	2200-7200	20000-22000		
	On/Off Valves (manual/electrical)	MS-EM, MS-EE	1000-2000	2600-7000	25000-32000		
	Soft-Start Valves (air/electrical)	MS-DL, MS-DE	1000-2000	2800-6450	25000-42000		
	Membrane Air Dryers	MS-LDM1	50-120	200-470			
	Distributor Blocks	MS-FRM	1300-3500	3300-13000	25000-4200		
	Flow Sensors	MS-SFE		200-5000			

One Seal System

Festo One Seal technology combines all sealing points into one integral unit. The unique seal solves the problems of back flow and system venting without the need for special components.



Smart-mount Connection System

Simply connect the high precision diecast aluminum housing to each other in a series - there is no need for any intermediate blocks. To ensure that the manifold assembly is leak free, this tight connection only needs a single seal between the individual devices.



Туре		MS4	MS6	MS12
Pneumatic Connection NPT		1/8, 1/4, 3/8	1/4, 3/8, 1/2, 3/4	1, 1-1/4, 1-1/2, 2
	BSP (G)	1/8, 1/4, 3/8	1/4, 3/8, 1/2, 3/4	1, 1-1/4, 1-1/2, 2
Nominal flow rate (range)	[Cv]	0.12 - 3.5	0.12 - 13.0	4.8 - 42.0
	[l/min]	120 - 3500	120 - 13000	4800 - 42000

KOGANEI International America, Inc.

Numerous Sizes and Models Available

Engineered for Life

PROTECTIVE LINEAR ORIFICE



Splash-proof, dust-proof, rustproof and H1 oil specification. Solve problems by absorbing impact in bad environments, such as cutting oil, water or dust. Lineup consists of 6 thread sizes from M8 to M20.

LINEAR ORIFICE TYPE KSHJ



Outstanding suction provided by an original linear orifice structure. A wealth of variations with a total of 18 series and 132 types. Support from gram units to ton

WIRE ROPE ISOLATORS



Minimizing the amount of vibration your machines experience is critical to their long-term performance. Wire Rope Isolators are engineered with a rugged, allmetal design comprised of stainless steel cable and aluminum retaining bars.

AIR SPRINGS



Highly Durable, precisely engineered and cost-effective for use in a wide variety of actuation and vibration isolation applications. Airs springs can accept a wide variety of medias such as air, water, nitrogen or anti-freeze.

TRAVELING AUTOMATION SHOW



HANDLING SYSTEMS









MACHINE TENDING





info@customfluidpwr.com

www.customfluidpwr.com

COMPRESSED AIR PREP



Brass fittings are popular because they are strong and durable. The advantage of brass fittings include:

- 1. Widely Versatile
- 2. Durable
- 3. High Temperature Tolerance
- 4. Resistance to Corrosion

Many brass fittings are in stock at Custom Fluid Power. Brass fittings are available in both leaded and lead-free options.



VACUUM





Vaccon's Mid Series venturi vacuum pumps with Air-Saver-Technology are all pneumatic systems that minimizes compressed air usage by creating, monitoring and maintaining vacuum for safe energy efficient operations. When the desired vacuum setpoint is reached, the air supply is isolated, saving compressed air. If the vacuum level drops by 3" Hg, the air supply is re-engaged to restore the necessary vacuum.

Suction Cups

Venturi Vacuum Pumps Gauges

AIR PIPING







- Quick Couplings and Plugs
- Blowguns
- Hose Reels
- Hoses and Extension Hoses
- ♦ Air Piping & Fittings

SHUT OFF VALVES

Our Custom Fluid Power Team can build your FRL and ship it out to you the same day

Material #	ldent-Code	Description
541280	MS4N-EM1-1/4	1/4" On/Off Valve
541289	MS6N-EM1-1/2	1/2" On/Off Valve

REGULATORS

Material #	Ident-Code	Description
531426	MS4N-LR-1/4-D7-AS	1/4" Regulator w/ Gauge 0-160 psi
531455	MS6N-LR-1/2-D7-AS	1/2" Regulator; w/ Gauge 0-160 psi

LUBRICATORS

Material #	Ident-Code	Description
535798	MS4N-LOE-1/4-U	1/4" Lubricator with Metal Bowl
531717	MS6N-LOE-1/2-U	1/2" Lubricator with Metal Bowl

MS SERIES FEATURES

- Sizes 4, 6, 9, 12
- Grade of filtration 40 μm, 5 μm
- Flow Rate 850 ... 170001/min
- Plastic or Metal Bowl
- Port G1/8, G1/4, G3/8, G1/2, G1, G1-1/4, G1-1/2
- Manual, Semi-Automatic, Automatic Drain
- Pressure Gauge with bar, psi, MPa
- Modular, High Flow and Energy Efficient



FILTER REGULATOR

Naterial #	Ident-Code	Description
35752	MS4N-LFR-1/4-D7-CUV-AS	1/4" Filter Regulator, Automatic w/ Gauge
31324	MS6N-LFR-1/2-D7-CUV-AS	1/2" Filter Regulator; Automatic w/ Gauge
31879	MS6N-LFM-1/2-AUV	1/2" Coalescing Filter, Automatic

ACCESSORIES

Naterial #	Ident-Code	Description
56759	MA-50-16-1/4	1/4" Back Mount Gauge 0-200 psi
26075	MS6-WR	Mounting Bracket- Neck Mount
32195	MS6-WP	Mounting Bracket- Wall Mount Modular
842	U-1/4-B	1/4" Silencer
843	U-3/8-B	3/8" Silencer
2741	U-1/2-B-NPT	1/2" Silencer

A complete line of automation components available when you need them!











NOT JUST ANY PRESSURE GAUGE

THE ORIGINAL

Full line of pressure gauges and accessories that support any application. From economical utility gauges to more durable process instrumentation, we have the gauges you need.

- PROCESS PRESSURE GAUGES
- INDUSTRIAL GAUGES
- UTILITY GAUGES

- HEAVY DUTY INDUSTRIAL GAUGES
- STAINLESS STEEL GAUGES
- LIQUID FILLED GAUGES



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Full - Size SERIES 380 FRLS



Available Color Caps



Port Sizes: 3/8" 1/2" 3/4"

- ♠ Individual filter (FD380); regulator (R380); lubricator (L380D); lockout valve (V380)
- 5-μm-rated polyethylene filter element; optional 40-μm element
- Aluminum bowls with clear nylon sight glass or polycarbonate plastic bowls with steel shatter-guard
- Internal automatic filter drain; optional manual drain, internal float drain, or Warrior electronic drain
- Optional extended aluminum lubricator bowl with sight glasses
- Self-relieving diaphragm-type regulator; non-relieving optional
- ♦ NPTF port threads; optional SAE or BSPP threads

One Touch Fittings—Composite NPT Threads Metric and Inch sizes available. Works with all types of tubing.

Wiente and men bizes available.				
STRAIGHT MALE				
Tube O.D.	NPT	Part Number		
5/32	10-32	FS-T5/32-U10		
5/32	1/8	FS-T532-N1/8		
5/16	1/4	FS-T5/16-N1/4		
1/4	10-32	FS-T1/4-U10U		
1/4	1/8	FS-T1/4-N1/8		
1/4	1/4	FS-T1/4-N1/4		
1/4	3/8	FS-T1/4-N3/8		
3/8	1/8	FS-T3/8-N1/8		
3/8	1/4	FS-T3/8-N1/4		
3/8	3/8	FS-T3/8-N3/8		
3/8	1/2	FS-T3/8-N1/2		
1/2	1/4	FS-T1/2-N1/4		
1/2	3/8	FS-T1/2-N3/8		
1/2	1/2	FS-T1/2-N1/2		

UNION - TEES	عقب ا
Tube O.D.	Part Number
5/32	FT-T5/32-T5/32
1/4	FT-T1/4-T1/4
3/8	FT-T3/8-T3/8
1/2	FT-T1/2-T1/2

	<i>J</i>		
SWIVEL	ELBOV	/	2
Tube O.D.	NPT	Part Number	
5/32	10-32	FE-T5/32-U10	
5/32	1/8	FE-T532-N1/8	
5/16	1/4	FE-T5/16-N1/4	
1/4	10-32	FE-T1/4-U10U	
1/4	1/8	FE-T1/4-N1/8	
1/4	1/4	FE-T1/4-N1/4	
1/4	3/8	FE-T1/4-N3/8	
3/8	1/8	FE-T3/8-N1/8	
3/8	1/4	FE-T3/8-N1/4	
3/8	3/8	FE-T3/8-N3/8	
3/8	1/2	FE-T3/8-N1/2	
1/2	1/4	FE-T1/2-N1/4	
1/2	3/8	FE-T1/2-N3/8	
1/2	1/2	FE-T1/2-N1/2	

UNIONS - STRA	IGHT
Tube O.D.	Part Number
5/32	FS-T5/32-T5/32
1/4	FS-T1/4-T1/4
3/8	FS-T3/8-T3/8
1/2	FS-T1/2-T1/2

Many other sizes and options available.



Most fittings are in stock and can ship the same day. Call to check availability.

FLOW CONTROLS				
Tube O.D.	NPT	Part Number		
1/4	1/8	SE0-T1/4-N1/8		
1/4	1/4	SE0-T1/4-N1/4		
1/4	3/8	SE0-T1/4-N3/8		
5/16	1/4	SE0-T5/16-N1/4		
3/8	1/4	SE0-T3/8-N1/4		
3/8	3/8	SE0-T3/8-N3/8		
<u> </u>				

ACCESSORIES

AIR TOOL OIL

Air Tool Oil is a specially formulated ISO 46 lubricant which prolongs the life of air tools, cylinders, and accessories, while allowing maximum performance. Our lubricant inhibits the formation of rust and is non-corrosive, nonreactive and

- · Lubricates and Rust Proofs
- · Maximizes Tool Performance



- · Removes Moisture
- · Prolongs Tool Life

MULTI - TUBE CONNECTORS



TwinTec multi-tube connectors connect in seconds, allowing for fast operation with quick change-overs.

All tubes are contained in one bundle and connected in one simple operation.

Accurate

Unique design prevents misalignment during the connection process.

TERGRADE OIL

While many air tool lubricants quit working below freezing temperatures, ATLW provides lubrication down to -45° F. Anti-Freeze Lubricant can be applied via conventional air line lubricators or directly into the air tool's air inlet port.

Warning: ATLW is not an additive and should not be mixed with other lubricants. This could result in a reduction of its de-icing and lubricating effectiveness as well as gumming of internal compo

PH: 208-461-7153



Typhoon Blow Gun

- Delivers up to 34 CFM @ 125 psi
- Maximum flow for easy clean-up and blow off
- Lightweight and ergonomic
- Variable flow trigger for controlled blow off

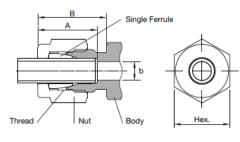


COMPRESSION STYLE LEAK - PROOF FITTINGS



S-LOK Singe and Double Ferrule Tube Fittings are manufactured under very strict quality control conditions to assure maximum reliability and performance. S-LOK tube fittings require no special tools to assemble. Connections are made by simple insertion and tightening the nuts.

www.customfluidpwr.com



- TUBE FITTINGS: Available in Stainless Steel, Brass and Alloy Steel.
- PIPE FITTINGS: High Quality with burr-free internal and external surfaces.
- **INSTRUMATION TUBE FITTING:** Strong, Reliable, Leak-free joints in hydraulic, pneumatic and lubrication applications.
- **INSTRUMENT VALVE:** Available in Integral Bonnet, Union Bonnet Needle Valve, Rising Plug Valve and Toggle Valve.
- STAINLESS STEEL INSTRUMATION TUBING: Complete line of welded and seamless tubing. 1/8" through 1" in 304/L and 316/L.

FX: 208-461-7901

info@customfluidpwr.com

GAGNEP "Swift - Fit Universal Thread System"

18

| BSPP | ISO 7 | G THREAD | J THREAD

XXXXXX - XX - XX

DESCRIPTION	PART#
STRAIGHT MALE	
8900	0 - XX - XX
STRAIGHT UNION	
	89040 - XX
BULKHEAD	
	89050 - XX
SWIVEL ELBOW	

•	No Stripped Fittings
	Completely Reusable

No Pitch Identification

SIZING CHART:

SIZE

1/8

5/32

1/4

5/16

3/8

1/2

No Stripped Ports

-Tube

Size

Quick Installation

Reduce Inventory



STRAIGHT

UNION



SWIVEL **ELBOWS**

MALE

UNION Y

BULKHEAD

SWIVEL BRACH TEE

UNION TEE



CONTROLS BALL VALVES

89110 - XX - XX

SWIVEL BRANCH TEE 89210 - XX

UNION TEE

DESCRIPTION

STRAIGHT MALE

STRAIGHT UNION

SWIVEL ELBOW

SWIVEL BRANCH TEE

BULKHEAD

UNION TEE

UNION Y

89230 - XX **UNION Y**

89310-XX

PART#

57040N - XX

57050N - XX

57110N - XX - XX

57210N - XX - XX

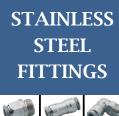
57000N - XX - XX

Size COMPONENT SPECIFICATIONS

-Thread

PART#

Pressure Rating: Vacuum - 250 psi Temperature Rating: 0-160° F **Tubing Compatibility:** Nylon Polyethylene Polyurethane Copper Media Compressed Air





METRIC FITTINGS

Push-to-Connect Fittings; Metric Tube, Nickel Plated; Release x Universal Thread System



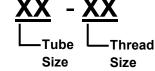
SIZING CHART:

XXXXXX - XX - XX

TUBE SIZE

3 mm

-Description Size



4 mm (5/32)				
5 mm	THREAD	0		
0	M5	1. Body	Nickel Plated B	
6 mm	IVIO	2. Thrust Ring	Nickel Plated B	
8 mm (5/16)	1/8		or Composite	
0 11111 (0/10)		3. Sleeve	Nickel Plated B	
10 mm	1/4	4. Collet	Stainless Steel	
12 mm	3/8	5. Safety Ring	Techno-polyme	
12 111111	3/0	6. Lip Seal	NBR70	
14 mm	1/2	7. Threads	NBR70	

Swift-Fit Universal Thread Advantage:

- Reduced overall length
- Smaller hex dimensions
- · Fits with various parallel and tapered threads
 - -Swift-Fit fittings will universally connect to all thread types



CATIONS
Vacuum-250 psi
0-160° F
Nylon
Polyethylene
Polyurethane
Copper
Compressed Air

info@customfluidpwr.com

Corrosion-resistant in harsh ambient conditions

Stainless Steel Cylinder

Easy-to-clean design

FILTERS

BFD70-2

BFD380-4

BFD380-6

FCD10P-2

FCD380S-3

BFCD380-4

1/4" Guardsman II Lubricator 6 oz. Bowl

1/2" Modular Lubricator w/ 9 oz. Plastic Bowl

3/4" Modular Lubricator w/ 9 oz. Plastic Bowl

3/4" Modular Lubricator w/ 9 oz. Metal Bowl

1" High-Flow Lubricator w/ 35 oz. Metal Bowl; In-Line Mount

REGULATORS

R56M-2H

R60-2H

R60-3H

CFDR56M-2HNG

LUBRICATORS

BCFDR380-3

BCFDR380-4

CFDR380-3

BL70D-2

L380D-4

L380D-6

BL380D-6

BL237D-8

Description

1/4" NPTF Miniature, General Purpose Regulator, 0-125 psi w/out Gauge

1/4" NPTF Modular, General Purpose Regulator, 0-200 psi, w/out Gauge

3/8" NPTF Modular, General Purpose Regulator, 0-200 psi , w/out Gauge

1/2" NPTF Modular, General Purpose Regulator, 0-125 psi, w/out Gauge

1/4" Mini Series Filter/Regulator; 0-100 psi; Plastic Bowl; w/out Gauge

3/8" General Purpose Filter/Regulator; Metal Bowl; 0-200 psi; w/out Gauge

1/2" General Purpose Filter/Regulator; Metal Bowl; 0-200 psi; w/out Gauge

3/8" Modular; Filter /Regulator; Plastic Bowl; Auto Drain; 0-125 psi; w/out Gauge

3/4" Modular; Filter /Regulator; Plastic Bowl; Auto Drain; 0-125 psi; w/out Gauge

1/4" General Purpose Filter, Metal Bowl, Auto Drain

1/4" Coalescing Filter, Plastic Bowl, Manual Drain

1/2" Coalescing Filter, Metal Bowl w/ Sight Glass

3/8" Coalescing Filter, Plastic Bowl, Internal Automatic Drain

1/2" General Purpose Filter Metal Bowl, Internal Auto Drain w/ Sight Glass

3/4" General Purpose Filter, Metal Bowl, Internal Auto Drain w/ Sight Glass

- Wide choice of variants
- Comprehensive range of accessories

Festo's stainless steel cylinders are made from highly resistant materials. The materials are particularly resistant to uniform surface corrosion and offer increased protection against pitting and crevice corrosion.

HURORH

to 200 psi

1000 psi Non-shock

Bore Sizes: 3/4", 1-1/8",

micron ratings of 5μm, 20μm or 40 μm to remove water and particulate material. Select coalescing filters remove oil and solid contaminants with 0.3 to 0.01

micron elements

MP regulators are made in a

all industrial requirements for

Sizes range from 1/8" up to

1-1/2".

pneumatic pressure regulation

MP Guardsman filter/

all are offered in a non-

relieving style.

MP lubricators are available for

1/8" up to 1-1/2". Lubricators

atomized oil into the airline so

that downstream mechanisms

can be adequately lubricated.

are designed to introduce

regulators are offered in 1/4",

3/8" and 1/2" ports. Regulator

is a self-relieving piston type;

wide range of sizes to suit nearly

Select general pur-

nose filters with

Lubricant



AIR TOOL LUBRICANT

Specially formulated ISO 46 lubricant that prolongs the life of air tools, cylinders and accessories.

Makes all lubricators last longer.

- Removes Moisture
- Maximizes tool performance
- Prolongs tool life

All exterior components 300 series stainless

Ask us about our WINTERGRADE LUBRICANT





Hydraulic

1-1/2", 2"

www.customfluidpwr.com

CRDSNU SERIES

FX: 208-461-7901

57230N - XX

57310N - XX

ACTUATORS T-SLOT FAB SHOP



1-1/2" - 12" BORE Pressure Rating: 250 psi Air or Oil Service

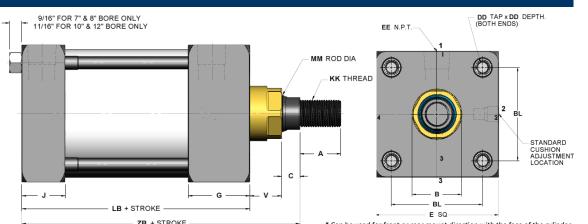
Stock Stroke for 1-1/2"-5" Bores:

1", 2", 3", 4 ", 5", 6", 8", 10", 12"

- NFPA Interchangeable
- Flush Mount Standard
- Strokes Available to any Practical Length
- Adjustable Air Cushion Standard
- Two Year Warranty

Heavy Duty Air Cylinders

- 11 Bore Sizes from 1.5" 12"
- 18 Standard Mounting Styles
- 250 psig Air / Oil
- Economic Design

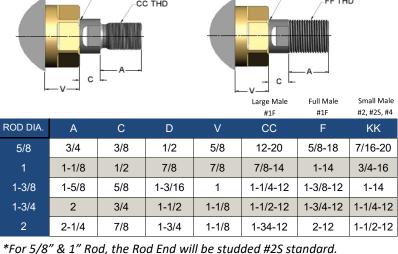


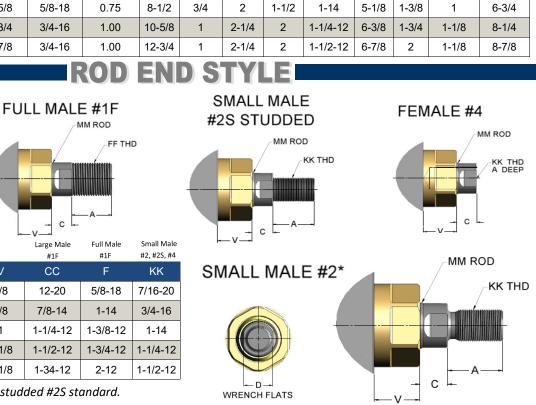
Stroke length to suit are
available in all bore sizes

LARGE MALE #1

PH: 208-461-7153

							· OIIIOIL				· Can be use	a for front o	ir rear moul	it direction wit	i the race or tr
BORE	Α	В	BL	С	DD	DD depth*	Е	EE	G	J	KK	LB	MM	V	ZB
1.5	3/4	1.123	1.43	3/8	1/4-28	0.50	2	3/8	1-1/2	1	7/16-20	3-5/8	5/8	5/8	4-5/8
2.0	3/4	1.123	1.84	3/8	5/16-24	0.50	2-1/2	3/8	1-1/2	1	7/16-20	3-5/8	5/8	5/8	4-5/8
2.5	3/4	1.123	2.19	3/8	5/16-24	0.50	3	3/8	1-1/2	1	7/16-20	3-3/4	5/8	5/8	4-3/4
3.25	1-1/8	1.498	2.76	1/2	3/8-24	0.63	3-3/4	1/2	1-3/4	1-1/4	3/4-16	4-1/4	1	7/8	5-5/8
4.0	1-1/8	1.498	3.32	1/2	3/8-24	0.63	4-1/2	1/2	1-3/4	1-1/4	3/4-16	4-1/4	1	7/8	5-5/8
5.0	1-1/8	1.498	4.10	1/2	1/2-20	0.75	5-1/2	1/2	1-3/4	1-1/4	3/4-16	4-1/2	1	7/8	5-7/8
6.0	1-5/8	1.998	4.88	5/8	1/2-20	0.75	6-1/2	3/4	2	1-1/2	1-14	5	1-3/8	1	6-5/8
7.0	1-5/8	1.998	5.73	5/8	5/8-18	0.75	7-1/2	3/4	2	1-1/2	1-14	5-1/8	1-3/8	1	6-3/4
8.0	1-5/8	1.998	6.44	5/8	5/8-18	0.75	8-1/2	3/4	2	1-1/2	1-14	5-1/8	1-3/8	1	6-3/4
10.00	2	2.373	7.92	3/4	3/4-16	1.00	10-5/8	1	2-1/4	2	1-1/4-12	6-3/8	1-3/4	1-1/8	8-1/4
10.00	0.444	0.000	0.44	7.0	0/4 40	4.00	40.044		0.444	_	4 4/0 40	0.7/0	_	4 4/0	0.7/0





Easy as 1, 2, 3

A service that saves your company time and money. Why wait weeks, when you can have your T-Slot kit in just days? You provide your CAD Drawing, and we do the rest.



Our Cut Shop Team gets to work on your build





SUB-ASSEMBIES

We machine/cut your project and package it into a simple kit for you to assemble.



FULLY ASSEMBLED

Your project is completely assembled in our Fab Shop and delivered right to your door.

SIMPLE

EFFICIENT

FAST

TUBING

Polyurethane • PVC • Polyethylene • Nylon • Spe-

Polyurethane Tubing

High resistance to abrasion while being highly flexible and kink resistant. "Memory" tubing will stretch and flex but always return to its original shape.























PVC Tubing

ooth interior and exterior which prevents sediment accumulation. Suitable for food and beverage, medical and pharmaceutical industries. Open weave inner-braid for increased working pressures up to 250 psi.















Polyethylene Tubing

Greater tensile strength. High burst pressure. Superior stress and crack resistance. Tasteless and odorless.

Puncture resistance. Impermeable to gasses and moisture. Superior dielectric properties. Lightweight.





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LUBRICATION **ACTUATORS** 16

Lubrication Systems - Solution Specialist

Graco has been designing and building modern lubrication equipment

and systems that serve the in-plant manufacturing industry for decades.

The newest generation of automation lubrication equipment is the result

of years of collaboration with customers and partners to engineer



GRACO

IMPROVES PRODUCTIVITY

EXTENDS EQUIPMENT

EASE OF USE

DEPENDABLE

RELIABLE

AUTO LUBE ACCESSORIES

high-quality, reliable systems that stand above the rest.

- **AUTOMATIC COMPRESSOR** LUBRICAN PUMPS
- FLOW DIVIDER VALVE
- CONTROL SWITCHES
- **AUTOMATIC GREASE & OIL**
- OIL & GREASE INJECTORS
- HYDRAULIC ACCUMULATOR SUPPLY PUMPS



OIL INJECTION SYSTEM

SERV-OII

Multiple Point Lubricator

- Ambient/Media Temperature: 40°F 125°F (4°C 52°C)
- Controller: Various available
- Operating Pressure: 60 150 psig (4.1 10.3 bar)
- Reservoir: Various reservoirs available
- rvoil-Meter: Brass body; optional aluminum and nickel plated housings; acetal end caps. 1-Drop (0.030ml) rating; optional 1/2-drop (0.060ml) rating
- Minimum Operating Air Pressure: 60psig (4bar)





SOLUTIONS BY INDUSTRY

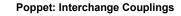
Graco and Master Pneumatic covers a wide range of lubrication solutions for different industries. Call our Custom Fluid Team to find the right lubrication system for your application.

- MQL NEAR DRY MACHINING
- MINING & CONSTRUCTION
- TEXTILES
- PAPER & WOOD INDUSTRY
- AGRICULTURAL MACHINERY
- MACHINE TOOLS, PRESSES
- TRANSPORT EQUIPMENT
- FOOD AND BEVERAGE
- ENERGY & UTILITIES
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QUICK DISCONNECTS

YOUR SOLUTION TO HYDRAULIC QUICK-DISCONNECT APPLICATIONS





- Available from 1/4" to 2"
- Positive stop valve prevents flow checking · Large diameter sleeve resists deformation
- Suitable for open-center or closed-center
- nydraulic systems

PH: 208-461-7153



SERIES: IRB | IRBX | IRBO

- NPT Standard Threads
- Anti-extrusion Rings are Teflon Spring in AISI 302 Stainless Steel
- On request, BSP Threads and Various Seals

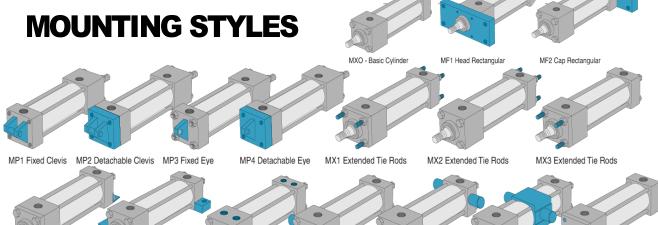
MATERIALS:

IRB: CARBON STEEL

IRBO: BRASS **IRBX:** STAINLESS

STEEL

QUICK REFERENCE MOUNTING STYLES



CALL OUR CUSTOM FLUID POWER TEAM TO HELP WITH SIZING ANY OF YOUR CYLINDERS.

Many cylinders can ship within 3-4 days from the factory.

OTHER ACTUATOR OFFERINGS

MS4 Bottom Tapped

ROUNDLINE

Stainless Steel Disposable-type cylinders. Available rom 2.5mm - 3" bores Stock available.

NFPA/ TIE ROD



1-1/2" - 10" bore Numerous options to choose from. Ships lirectly to you from the

ELECTRIC

Maximum rigidity and load capacity. New tandard in speed. acceleration and torque esistance. Position sensing.

ROTARY



Semi-rotary actuators with rotary vane or rack and pinion. Miniature models to large high orque models.

PANCAKE

MT1 Head Trunnion

cylinders designed for short stroke, low profile tight spaces. Available from 1/2"- 4" bore sizes and up to 4" stroke.

Round and square

MT2 Cap Trunnion

GUIDED/SLIDES



actuators provide accuracy for a wide range of applications

Non-rotating

AIR SPRINGS



Variety of Air Springs and Air Shock Absorbers types to meet your actuation or isolation needs.

HYDRAULIC



Medium Duty and Heavy Duty hydraulic cylinders from 1.5" Bore to 20" Bore; Many mounting styles and options.

FLOW CONTROLS



Controlling the speed of an actuator can easily be done using a flow control.

Part Number	Description
SE0-T1/4-N1/8	1/4" Tube x 1/8" NPT Meter Out
SE0-T1/4-N1/4	1/4" Tube x 1/4" NPT Meter Out
SE0-T1/4-N3/8	1/4" Tube x 3/8" NPT Meter Out
SE0-T5/16-N1/4	5/16" Tube x 1/4" NPT Meter Out
SE0-T3/8-N1/4	3/8" Tube x 1/4" NPT Meter Out
SE0-T3/8-N3/8	3/8" Tube x 3/8" NPT Meter Out

Current part numbers are in stock at CFP and ready to ship. Many other sizes are available. Call our CFF Team to help you with any of your flow control

RODLESS

relative to stroke. Fully interchangeable with the inear drive Festo DGP. Easy to assemble and install. Standard and extend pistons available.

Compact-Fitting length

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Whether ball screw or belt driven linear actuators or linear motors, Festo can provide all your motion control needs.

- ELECTRIC LINEAR ACTUATORS AND **SLIDES**
- ELECTRIC ROTARY ACTUATORS
- STOPPER CYLINDERS
- **ELECTRIC HANDLING MODULES**
- ELECTRIC GRIPPERS
- ACCESSORIES FOR ELECTRIC **ACTUATORS**

EGC-TB

ELECTRIC ACTUATORS

Toothed Belt Actuator



- Sizes: 50,70,80,120,185
- Fixed Strokes: 50 5,000
- **Call for Options**

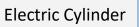


Ball Screw Actuator



- Sizes: 70, 80-120
 - Fixed Strokes: 100...800
- Repeatability: 0,02 mm





ERMO

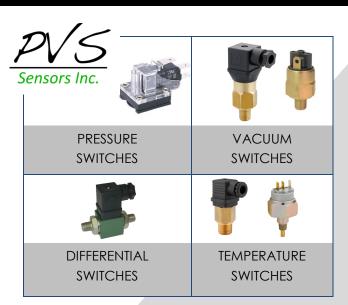
Rotary Actuator



- Sizes: 32, 40, 50, 63 mm
- Stroke:100...400 mm
- Optional IP65 protection and FDA- approved grease



- Sizes: 12, 16, 25, 32
- Servo-Lite motor Pre-mounted to actuator



PVS offers a range of USA manufactured pressure, vacuum, temperature and differential switches. They are designed for application in the Industrial and Mobile Hydraulic fields as well as Pneumatic, Water Process, Refrigerant, Air Conditioning, Beverage and other associated industries. PVS offers a complete custom design and manufacturing service providing switch products to meet specific customer needs.

be removed by a coalescing filter

NASON

- Three new models NT25, NT40 and NT100, an industry first
- Basic to highly-customized models
- Hydraulic and pneumatic designs
- Three models with accuracy ranges of 1%, .4% and .25%
- •Vacuum ranges to 10,000 psi
- •IP69K Seal available for the NT25, enabling high pressure wash down
- Compact designs
- Custom outputs and ranges available
- Multiple industry applications





NT100

The NT25 Series digital/ configurable is an industry first. This industrial pressure ind accuracy over a wide and-play, which is not found in most lower grade competitive units.

S

CAN BE USED FOR NUMEROUS APPLICATIONS

ONE SERIES

PNEUMATIC

The ONE Unit - A Revolution in Air Preparation

- Filter/ Regulator · Shutoff Valve · Distribution Manifold
- Soft Start Valve · Dump Valve · Pressure Switch
- · Condensation Drain · 1/4" to 1" Ports · Customizable to Fit your Application

ALL-IN-ONE AIR PREP UNIT



One single unit houses the threaded ports, filter, condensation drain, pressure regulator, shut-off valve, soft start valve, pressure switch and three supplementary air intakes.

AIR DRYERS

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ABSORBING FILTERS, DRYERS, CLEAN AIR PACKAGES

OIL REMOVAL ABSORBING FILTERS Designed to remove vapors from the air line that cannot

- Produce air that is virtually free of oil and hydrocarbons
- Filter cartridges contain active carbon to absorb hydrocarbon vapors and odors from alcohols, esters and ketones

CLEAN AIR PACKAGES

- Ultra clean air is provided by using the particulate filters as the first line of defense against contaminants found in air lines
- Elements remove solid particles larger than 5
- Automatic drains eliminate liquid water and oil emulsion that collect in the sump area Absorber filter will provide air that is virtually
- free of oil and most hydrocarbons
- Availabe with port sizes ranging from 1/4"-



MP- FILENCO DRYER/FILTER

 Triple-action cleaning process Substantially reduces pressure dew points Available desiccants for these units include clay, clay with activated carbon, and molecular sieves for as much as 80° dew point suppression

A multiple laver filte

disc pack provides final filtration to remove particulates

DESICCANT

desiccant chamber. Different desiccants are offered to meet a variety of needs.

INLET

Incoming air swirls around a conical structure where wate and oil droplets fall is broken up.

Several drain types are available

OUTLET

Just clean dry air!

includina electronic or heated drains.

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HYDRAULICS VALVES

14 PROCESS CONTROL **SOLENOID**

- Stainless Steel and Brass
- Air and Electrically Driven Valve
- Ball Valve Style
- Butterfly Valve Style

Direct Acting

Indirect Acting

Normally Open and

Normally Closed





POPPET



to Shift



Self -Cleaning and Dirt-

• Sizes 10-32" through 1"



- AIR PILOT/MANUAL Pneumatically Actuated
 - Push Button Lever / Toggle
 - Foot Peddle





- Electrically Actuated
- Manually and/or Air Pilot Actuated Selector Valve
- Control Pressure or Vacuum

PROPORTIONAL



- Electro-Pneumatic Control Valve Controlling Full Vacuum
- up to 6000 psi
- Pneumatic Control
- Fluid Control Capabilities

SAFETY



SPOOL

Emergency Stop Valve



- Manual
- Electric

PROCESS CONTROL VALVES





Industrial processes and general utility applications



ANGLE SEAT VALVE

Ideal for gaseous and fluid applications and control of media flows



PINCH VALVE

Ideal for applications requiring smooth media flows and reliable shut-off



Solenoid Systems **Explosion Proof Valves System Solutions Power Packs** Connecting Plates & Manifolds Accessories **Pressure Switches Hydraulic Drives Filtration Tank Solutions Quick-Connect System** Fluid Management

Sensors & Measurement

A Strong Brand in Fluid Technology





Bar Manifolds are used to provide single or multi-station directional control circuits built up from standard NFPA or ISO 4401 directional control valve interfaces. They provided a compact solution and greatly reduce the



plumbing and leak joints compared to a system of discrete components. Modular sandwich blocks with additional circuitry can be added, allowing for modifications to be made without disturbing the main plumbing. Many OEMs choose to start with a Bar Manifold in order to test out a concept with modular valves before committing to a final custom solution.





MINI PUMPS **HI-LO PUMPS PTO PUMPS** Double/Triple Pumps F10 SAE "AA" 2-Bolt F20 SAE "A" 2 Bolt F25 SAE "B" 2 Bolt



Dynamic Series	Crossover
вмм	Crossover: Charlynn 129/ Danfoss OMM
ВМРН	Crossover: Charlynn 101 & 130 (H&A Series)
BMRS	Crossover: Charlynn 103 & 158 (S&T Series)
BMSY	Crossover: Charlynn 104 & 105
BMER	Crossover: White Drive 500, 520 & 530 Series
вмн	Crossover: Danfoss OMH
вмт	Crossover: Danfoss OMT
вмк6	Crossover: Charlynn 6000 Series
BMV	Crossover : Danfoss OMV

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VALVES VALVES

Humphrey Solenoid Valves 310/410 Series

Direct-Acting Operation

Simple Poppet Valve Design

310 Series: Single Solenoid, Spring-Return, 3-Way, 2-Position, Normally Closed

NPT	Part #	Туре	Voltage	Connector	Operating PSI	Cv
1/8"	310-12VDC	Direct Acting	12 VDC	24" Wire Leads	0-125	.15
1/8"	310-24VDC	Direct Acting	24VDC	24" Wire Leads	0-125	.15
1/8"	310-120VAC	Direct Acting	120AC	24" Wire Leads	0-125	.15

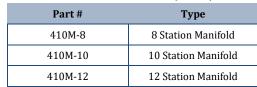
410 Series: Single Solenoid, Spring-Return, 4-Way, 2-Position, Normally-Closed

NPT	Part #	Туре	Voltage	Connector	Operating PSI	Cv
1/8"	410-12VDC	Direct Acting	12 VDC	24" Wire Leads	0-125	.15
1/8"	410-24VDC	Direct Acting	24VDC	24" Wire Leads	0-125	.15
1/8"	410-24VAC	Direct Acting	24VAC	24" Wire Leads	0-125	.15
1/8"	410-120VAC	Direct Acting	120AC	24" Wire Leads	0-125	.15



410M Manifold - Provides for a centralized location of control valves. Accepts any combination of 310 & 410 valves

•	
Part #	Туре
410M-2	2 Station Manifold
410M-4	4 Station Manifold
410M-6	6 Station Manifold





Humphrey

TAC SERIES 10-32" -1/4" Manual Air Valves

Tac air valves may be operated by pilot or mechanical operators or manually operated by their push-buttons. Each push-button's should bottom-out on the valve body to prevent over-stroke and valve damage.

2P

2-way, normally closed, spring-return valve that can trap downstream pressure if the supply pressure is maintained and not exceeded.



4-way, normally closed/normally open valve with two push buttons. In and CYL port threads are #10-32 female. EXH ports are not threaded



4-way, normally closed/normally open valve with spring-return. In and CYL port threads are 1/8" NPT. Exhaust ports are #10-32 female.



4-way double air pilot valve. 1/4" orifice. 2-position – detented.

Normally closed/normally open.

Five ports – common inlet, separate exhausts standard.



3-way, normally closed, spring-return valve. IN and CYL port threads are #10-32 female. EXH port is not threaded. Alternate IN port is 1/8" NPT male.



Multi-purpose valve with springreturn. Pressure may be applied at any port. Can be used as a 3way normally closed/normally open valve, as a diverter or dual pressure valve. May also be used as a 2-way valve with plugged port.



41PPX-

3 or 4 – way manual/mechanical air valve. Available as spring return or detent functionality. 1/8" ports. 0-125 psi. Plug 3-way for 2-way service; 4-way included exhaust speed controllers standard. Brass.



Humphrey

NEW BALANCED VALVE FAMILY Six valves strong of 3-port and 4-port types in three sizes .Humphrey Balanced Valves offer exceptional versatility.

Multi-purpose

Multi-Media

■ Reliable Shift, Tight Seal

High Flow Capacity

Ease of Use

Six Different Sizes

153 - 154 Series Balanced Solenoid Valve

■ 15 mm 3-4 port ■ Light-Weight, Low Mass ■ Vacuum or Pressure

ction • Long Service Life

• High Flow 0.18 - 0.25 Cv • Multi-Purpose Function

Long Service

193 - 194 Series Balanced Solenoid Valve

■ 19 mm 3-4 port ■ Light-Weight, Low Mass

High Flow 0.50 - 0.65 Cv
 Multi-Purpose Function

Long Service Life

Vacuum or Pressure

253 - 254 Series Balanced Solenoid Valve

High Flow 1.00 - 1.20 Cv
 Multi-Purpose Function

■ 25 mm 3-4 port ■ Light-Weight, Low Mass ■ Vacuum or Pressure

These universally functional valves are available in both the Standard Inline option or as a Manifold-Mounting option. Call the Custom Fluid Power team to help with any of your valve sizing needs.

FESTO VTSA VALVE TERMINALS

Building a Festo VTSA 18mm from our inventory

Valve: Choose your valve

539184 – 5/2 single coil, 24vdc

539176 – 2 x 3/2 NC

539178 - 2 x 3/2 NO

539213 – Blanking Plate

Manifold Sub-base

√539223 – 18mm sub-base, 2stn, 1/8"f-npt ports

Electrical Connection

~543414 – 37 Pin "D" Sub-base ► 539246 – 37 Din Connector

Up to 32 Coils

W/ 2.5 meter PUR cable

Supply and Exhaust End Kit

539235 – Supply and Exhaust, ½ "F-npt Ports

Ideal for maximum pneumatic and electrical function integration.

Our Custom Fluid Power Team can build your valve terminal and ship it the same day.

KEY FEATURES

- INNOVATIVE
- •VERSATILE •RELIABLE
- EASY TO MOUNT
 - Expandable up to
 32 Solenoid Coils
 - Valve Supply 24VDC or 110VAC
 - Four Valve Sizes on One Valve Terminal
 - Secure Mounting on Wall or H-Rail
 - Ready to Install and Tested Unit
 - •High Pressure Range
 - -.09...10 bar, Flow 550...2,900 l/min

Especially innovative is the mix of 5 valve sizes on one valve terminal, without the need for an adapter plate up to size 2! The VTSA is fully compliant with ISO 15407-2 and ISO 5599-2 – yet is easy to integrate. It can be used as a complete installation solution for large-scale machine concepts.

VUVS SOLENOID VALVES | MANIFOLDS - UNIVERSAL PISTON SPOOL VALVES

L20 21mm- 1/8" NPT working ports .07Cv

Material #	Ident-Code	Description
575694	VUVS-L20-M32C-AD-N18-F7	3/2 NC single solenoid pneumatic spring
575698	VUVS-L20-M32U-AD-N18-F7	3/2 NO single solenoid pneumatic spring
575702	VUVS-L20-M52-AD-N18-F7	5/2 single solenoid pneumatic spring
575706	VUVS-L20-B52-D-N18-F7	5/2 double solenoid
575712	VUVS-L20-P53E-ME-N18-F7	5/3 exhaust double solenoid
8025331/539712	VACS-C-C1-5	12 VDC Coil w/ Coil Connector
8025330/539712	VACS-C-C1-1	24 VCD Coil w/ Coil Connector
8025334/539712	VACS-C-C1-16B	110 VAC Coil w/ Coil Connector

Manifolds

	Material #	Ident-Code	Description
	576351	VABM-B10-20E-N38-2	PRS style 2-station manifold
	576353	VABM-B10-20E-N38-4	PRS style 4-station manifold



1/8" 1/4" 3/8"

26.5mm- 1/4" NPT working ports 1.30 Cv

Material #	Ident-Code	Description
575544	VUVS-L25-M32C-AD-N14-F8	3/2 NC single solenoid pneumatic spring
575548	VUVS-L25-M32U-AD-N-14-F8	3/2 NO single solenoid pneumatic spring
575552	VUVS-625M52-AD-N14-F8	5/2 single solenoid pneumatic spring
575556	VUVS-L25-B52-D-N14-F8	5/2 double solenoid
575562	VUVS-L25-P53E-MD-N14-F8	5/3 exhaust double solenoid
8030801/539712	VACS-B-B1-5	12 VDC Coil w/ Coil Connector
8030802/539712	VACF-B-B2-1	24 VCD Coil w/ Coil Connector
8030806/539712	VACF-B-B2-16B	110 VAC Coil w/ Coil Connector

ALSO AVAILABLE

L30 31mm- 3/8" NPT working ports 2.4 Cv





