

# CFP Custom Fluid Power

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**FITTINGS**



**TUBING**



**AIR DRYERS**



## DAIRY PNEUMATIC REFERENCE GUIDE

dairy pneumatic reference guide



**FILTER/REGULATOR/LUBRICATOR**

**CROWD GATE VALVES**



**PROCESS CONTROL**



**208-461-7153**

CFP is a full line stocking distributor of fluid components and accessories.

# FITTINGS

## One Touch Fitting - Composite NPT Threads

Metric and Inch sizes available. Works with all types of tubing.

### THREADED FITTINGS

SIZE		STRAIGHT	ELBOW	BRANCH TEE	MALE Y
Tube OD	NPT	FS	FE	FT	FY
5/32	10-32	FS-T5/32-U10	FE-T5/32-U10	FT-T5/32-U10	FY-T5/32-U10
5/32	1/8	FS-T5/32-N1/8	FE-T5/32-N1/8	FT-T5/32-N1/8	FY-T5/32-N1/8
5/16	1/4	FS-T5/16-N1/4	FE-T5/16-N1/4	FT-T5/16-N1/4	FY-T5/16-N1/4
1/4	10-32	FS-T1/4-U10U	FE-T1/4-U10U	FT-T1/4-U10U	FY-T1/4-U10U
1/4	1/8	FS-T1/4-N1/8	FE-T1/4-N1/8	FT-T1/4-N1/8	FY-T1/4-N1/8
1/4	1/4	FS-T1/4-N1/4	FE-T1/4-N1/4	FT-T1/4-N1/4	FY-T1/4-N1/4
1/4	3/8	FS-T1/4-N3/8	FE-T1/4-N3/8	FT-T1/4-N3/8	FY-T1/4-N3/8
3/8	1/8	FS-T3/8-N1/8	FE-T3/8-N1/8	FT-T3/8-N1/8	FY-T3/8-N1/8
3/8	1/4	FS-T3/8-N1/4	FE-T3/8-N1/4	FT-T3/8-N1/4	FY-T3/8-N1/4
3/8	3/8	FS-T3/8-N3/8	FE-T3/8-N3/8	FT-T3/8-N3/8	FY-T3/8-N3/8
3/8	1/2	FS-T3/8-N1/2	FE-T3/8-N1/2	FT-T3/8-N1/2	FY-T3/8-N1/2
1/2	1/4	FS-T1/2-N1/4	FE-T1/2-N1/4	FT-T1/2-N1/4	FY-T1/2-N1/4
1/2	3/8	FS-T1/2-N3/8	FE-T1/2-N3/8	FT-T1/2-N3/8	FY-T1/2-N3/8
1/2	1/2	FS-T1/2-N1/2	FE-T1/2-N1/2	FT-T1/2-N1/2	FY-T1/2-N1/2

### PUSH-IN FITTINGS

SIZE	STRAIGHT	ELBOW	UNION TEE	MALE Y
Tube OD	FS	FE	FT	FY
5/32	FS-T5/32-T5/32	FE-T5/32-T5/32	FT-T5/32-T5/32	FY-T5/32-T5/32
1/4	FS-T1/4-T1/4	FE-T1/4-T1/4	FT-T1/4-T1/4	FY-T1/4-T1/4
3/8	FS-T3/8-T3/8	FE-T3/8-T3/8	FT-T3/8-T3/8	FY-T3/8-T3/8
1/2	FS-T1/2-T1/2	FE-T1/2-T1/2	FT-T1/2-T1/2	FY-T1/2-T1/2

Most fittings are in stock and can ship the same day!



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FITTINGS



# ROUND LINE CYLINDERS

## HUMPHREY DOUBLE-ACTING, NOSE MOUNT ROUND LINE

**STOCK  
ITEMS**



**5-DP-18**

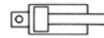
- Rod bearing is oil-permeated and precision ball-sized.
- Cataloged rod threads are roll formed for strength and durability.

**1-1/2" BORE**

**1/8" PIPE THREAD**



**5-DP-14**



Description of Cylinder	Humphrey SST
Air Compatible	Yes
Cylinder Type	Linear
Mount Type	Double End
Pressure Range	0.0 - 200.0 PISG
Ambient Temperature Range	-40° - 160° F
Type of Cylinder	Double Acting

# TUBING

Polyurethane ▪ PVC ▪ Polyethylene ▪ Nylon ▪ Specialty ▪ Coiled

## 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.

**COLORS:** 01 02 04 05 06 07 08 09 10 11 12 14 25 26 27 28 29 32 37 45 46 48 49

## 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.

**COLORS:** 01 04 05 06 07 08 09 10 12

**INCH & METRIC**

## Packaging Options



- A Standard Bulk Cardboard Reel**  
21" diameter x 6" wide with 1" I.D. center hub.
- AA Double Wide Bulk Cardboard Reel**  
Same size as "A" reel except 12" wide with an open hub.
- B Medium Plastic Reel**  
10.5" diameter x 6" wide with 3/4" I.D. center hub.



- C Small Plastic Reel**  
6.5" diameter x 6" wide with 3/4" I.D. center hub.
- D,L Dispenser Boxes**
- E Cut Lengths**
- J Plastic Bag**

Many sizes and colors in stock - ready to ship!



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# DAIRY PNEUMATIC REFERENCE GUIDE

ROUND LINE CYLINDERS

TUBING

# 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 #	Type	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 #	Type	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



Part #	Type
410M-2	2 Station Manifold
410M-4	4 Station Manifold
410M-6	6 Station Manifold

Part #	Type
410M-8	8 Station Manifold
410M-10	10 Station Manifold
410M-12	12 Station Manifold



Valves and Manifolds are in stock at Custom Fluid Power. We can build your assembly and ship it in the same day!

## 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 should bottom-out on the valve body to prevent over-stroke and valve damage.

#### TAC VALVES

Prevents 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.

#### 4P



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.

#### 41P



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.

#### 42A2



4-way double air pilot valve. 1/4" orifice. 2-position – detented. Normally closed/normally open. Five ports – common inlet, separate exhausts standard.

Visit our website:

[www.customfluidpwr.com](http://www.customfluidpwr.com)

#### 3P



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.

#### 31P

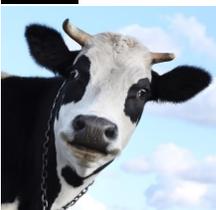


Multi-purpose valve with spring- return. Pressure may be applied at any port. Can be used as a 3-way normally closed/normally open valve, as a diverter or dual pressure valve. May also be used as a 2-way valve with plugged port.

#### 41PPX-BRB



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.



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# CROWD GATE VALVE



PART # 4A430C-1/2  
5 WAY - 3 POSITION - 1/2" PORTS  
CENTER POSITION BLOCKED



CROWD GATE

# PROCESS CONTROL VALVES



BUTTERFLY

Provides bi-directional dead-end service in commercial and industrial services



STAINLESS BALL

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

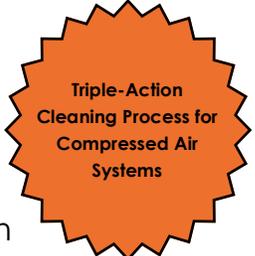
PROCESS CONTROL

# AIR DRYERS

## MP - FILENCO DRYER/FILTER

### 1/4" up to 2"

- 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



## CLEAN / DRY AIR - YOUR KEY TO SUCCESS



AIR DRYERS

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# DAIRY PNEUMATIC REFERENCE GUIDE

# TIE ROD CYLINDERS



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

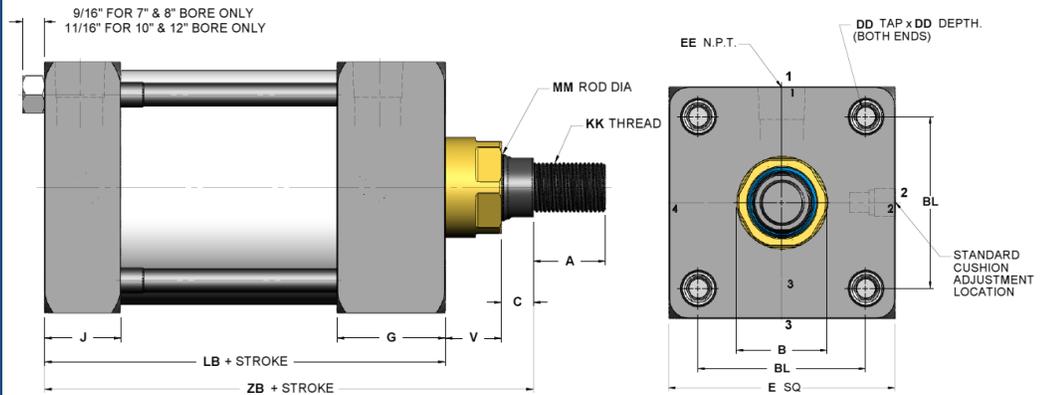
- Heavy Duty Air Cylinders
- 11 Bore Sizes from 1.5" - 12"
- 18 Standard Mounting Styles
- 250 psig Air / Oil
- Economic Design

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"

Stroke length are available  
in all bore sizes

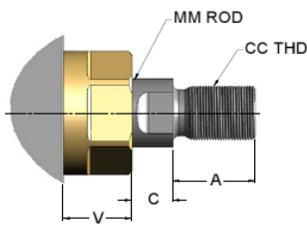


\* Can be used for front or rear mount direction with the face of the cylinder.

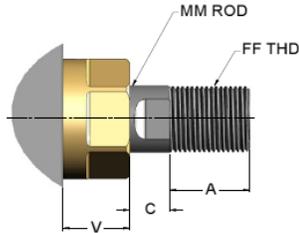
BORE	A	B	BL	C	DD	DD depth*	E	EE	G	J	KK	LB	MM	V	ZB
1.5	3/4	1.123	1.43	3/8	1/4-28	0.50	2	3/8	1-1/2	1	7/16-20	3-5/8	5/8	5/8	4-5/8
2.0	3/4	1.123	1.84	3/8	5/16-24	0.50	2-1/2	3/8	1-1/2	1	7/16-20	3-5/8	5/8	5/8	4-5/8
2.5	3/4	1.123	2.19	3/8	5/16-24	0.50	3	3/8	1-1/2	1	7/16-20	3-3/4	5/8	5/8	4-3/4
3.25	1-1/8	1.498	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
12.00	2-1/4	2.623	9.41	7/8	3/4-16	1.00	12-3/4	1	2-1/4	2	1-1/2-12	6-7/8	2	1-1/8	8-7/8

## ROD END STYLE

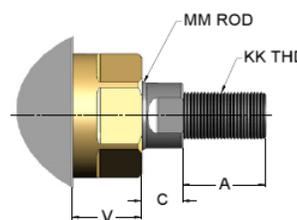
LARGE MALE #1



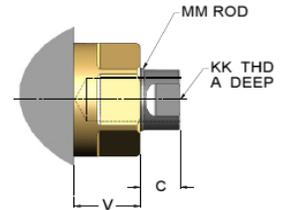
FULL MALE #1F



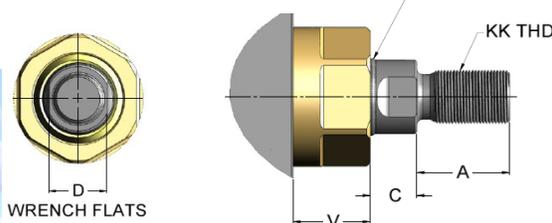
SMALL MALE #2S STUDD



FEMALE #4



SMALL MALE #2\*



Large Male #1F Full Male #1F Small Male #2, #2S, #4

ROD DIA.	A	C	D	V	CC	F	KK
5/8	3/4	3/8	1/2	5/8	12-20	5/8-18	7/16-20
1	1-1/8	1/2	7/8	7/8	7/8-14	1-14	3/4-16
1-3/8	1-5/8	5/8	1-3/16	1	1-1/4-12	1-3/8-12	1-14
1-3/4	2	3/4	1-1/2	1-1/8	1-1/2-12	1-3/4-12	1-1/4-12
2	2-1/4	7/8	1-3/4	1-1/8	1-3/4-12	2-12	1-1/2-12

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# DAIRY PNEUMATIC REFERENCE GUIDE

TIE ROD CYLINDERS



# FILTERS - REGULATORS - LUBRICATORS

Part #	Description	FILTERS
BFD70-2	1/4" General Purpose Filter, Metal Bowl, Auto Drain	
BFD380-4	1/2" General Purpose Filter Metal Bowl, Internal Auto Drain w/ Sight Glass	
BFD380-6	3/4" General Purpose Filter, Metal Bowl, Internal Auto Drain w/ Sight Glass	
BFD200-8	1" General Purpose Filter; Metal Bowl, Internal Auto Drain w/ Sight Glass	
FCD10P-2	1/4" Coalescing Filter, Plastic Bowl, Manual Drain	
FCD380S-3	3/8" Coalescing Filter, Plastic Bowl, Internal Automatic Drain	
BFCD380-4	1/2" Coalescing Filter, Metal Bowl w/ Sight Glass	

Part #	Description	LUBRICATORS
BL70D-2	1/4" Guardsman II Lubricator 6 oz. Bowl	
L380D-4	1/2" Modular Lubricator w/ 9 oz. Plastic Bowl	
L380D-6	3/4" Modular Lubricator w/ 9 oz. Plastic Bowl	
BL380D-6	3/4" Modular Lubricator w/ 9 oz. Metal Bowl	
BL237D-8	1" High-Flow Lubricator w/ 35 oz. Metal Bowl; In-Line Mount	

Part #	Description	FILTER/REGULATORS
CFDR56M-2HNG	1/4" Mini Series Filter/Regulator; 0-100 psi; Plastic Bowl; w/out Gauge	
BCFDR380-3	3/8" General Purpose Filter/Regulator; Metal Bowl; 0-200 psi; w/out Gauge	
BCFDR380-4	1/2" General Purpose Filter/Regulator; Metal Bowl; 0-200 psi; w/out Gauge	
CFDR380-3	3/8" Modular; Filter /Regulator; Plastic Bowl; Auto Drain; 0-125 psi; w/out Gauge	
CFDR380-6	3/4" Modular; Filter /Regulator; Plastic Bowl; Auto Drain; 0-125 psi; w/out Gauge	

## STOCK ITEMS

### Full - Size SERIES 380 FRLS

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



Model Shown: AAMV1A1BJ16



Part #	Description	REGULATORS
R56M-2H	1/4" NPTF Miniature, General Purpose Regulator, 0-125 psi w/out Gauge	
R60-2H	1/4" NPTF Modular, General Purpose Regulator, 0-200 psi, w/out Gauge	
R60-3H	3/8" NPTF Modular, General Purpose Regulator, 0-200 psi, w/out Gauge	
R380-4	1/2" NPTF Modular, General Purpose Regulator, 0-125 psi, w/out Gauge	

Available Color Caps



## FRL 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 stable.

Item #: ATL016

- Lubricates and Rust -Proofs
- Removes Moisture
- Maximizes Tool Performance
- Prolongs Tool Life



**DYNAMIC**  
FLUID COMPONENTS, INC.

**CF Series Gauges**  
1 1/2", 2" and 2 1/2" • Glycerine-Filled

#### Features

- 304 Stainless Steel Case & Bezel
- Phosphor Bronze Bourdon Tube
- Bronze Connection
- Polycarbonate Lens
- Built-in Snubber
- Range: Vacuum to 10,000 psi
- Dual Scale: psi & bar
- Accuracy: ± 1.6% FSD
- Temperature Range: -40° to 180°F



GAUGE SIZE	PORT SIZE
1-1/2"	1/8" NPT
2"	1/4" NPT
2-1/2"	1/4" NPT

### WINTERGRADE OIL

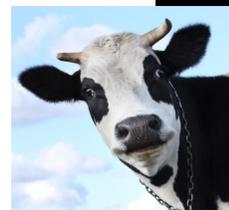
While many air tool lubricants quit working below freezing temperatures, ATLW provides lubrication down to -45° F. Anti-Freeze Lubricant can be applied via conventional air line lubricators or directly into the air tool's air inlet port.

Item #: ATL016W

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 components.



- Service Filter Gauges
- CDS Series Dry Gauges
- CF Series - Glycerin - Filled
- Test Gauges
- CFC Series 4" Glycerin - filled
- PDSS Series All Stainless Steel



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# DAIRY PNEUMATIC REFERENCE GUIDE

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# WASH GUNS



## HEAVY-DUTY INDUSTRIAL SPRAY NOZZLE

- Cost Effective
- Durable
- Adjustable Flow Rate
- Light Weight
- Long Lasting

Brass Wash Gun with polyamide coating. Thread: 1/2" FNPT. Max temperature: 194° F; Max pressure: 384 PSI; Weight: 33.50 oz.; Flow at 290 PSI: 2.12 CFM; Flow at 145 PSI: 1.52 CFM

## PALM BUTTON



### 2-WAY NORMALLY CLOSED

Large diameter black plastic knob is standard for comfortable operation. Red and green knobs are available.



BLACK: BIK-2208-P-25B-67

RED: BIK-2208-P-25BR-67



GREEN: BIK-2208-P-25BG-67

## CONTROL VALVE



### DAIRY CONTROL VALVE

CT-0110 Turner 4D Valve

5/2 Push/Pull Valve / 1/8" Ports - Nylon and Stainless Steel. **Outlasts** the Clippard MAV4-D valves.

## FITTING BOX



Conveniently stocked with 10 each of the most common fittings in the Dairy Industry. Provide this to one of your customers or put it on your supply truck for easy access. Fitting Box can be customized to fit your needs.

**CFP** Custom Fluid  
Power

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