

FILL RITE
STANDARD PRODUCTS
2009

Serving the best value-minded customers,
anywhere on the planet



 **Tuthill**

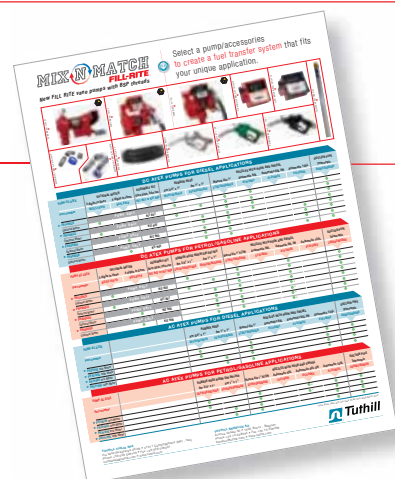


MECHANICAL FLOW METERS	4
Model . 806CLX418	4
. 807CL1X418	4
. 901LX418	4
. 901L1.5X418	4
DIGITAL FLOW METER	4
. 820	4
HAND PUMPS	4
Model . FR31L	4
. FR110	5
. FR112	5
. FR112CL	5
. FR150	5
. FR151	5
. FR152	5
DIAPHRAGM AC & DC PUMPS	6
Model . FR205	6
. FR210	6
. FR410	6
. FR450E	6
DC VANE PUMPS	7
Model . FR1205 CE	7
. FR2405 CE	7
. FR4205 DE	7
. FR4405 DE	7
AC VANE PUMPS	8
Model . FR705 VE	8
. FR701 VEL	8
. FR318 VE	8
. FR311 VEL	8
LPE OIL PUMP	9
Model . LPE3.4B14L	9
. LPE3.4B27L	9
. LPE13.8B14L	9
. LPE13.8B27L	9
ACCESSORIES	10
NOZZLES WITH HOOK AND SWIVEL	10
RUBBER HOSES	10
TELESCOPIC SUCTION PIPE	10
REPAIR KITS	10

MIX'N'MATCH CHART POSTER INSIDE



MIX'N'MATCH
FILL-RITE
 New FILL RITE vane pumps with BSP threads



MECHANICAL FLOW METERS ON REQUEST METERS IN GALLON ARE AVAILABLE

Model 806CLX418

FLOW RATE 20 to 75 LPM

- Measurement accuracy ±1%
- Pressure 3.5 bar
- Connections 1" F BSPT/1" F BSPT
- Totalizer 6 digits
- Current total 3 digits Liters (resettable)
- Outlet Left, Right, Up, Bottom
- Strainer Yes



Model 807CL1X418

FLOW RATE 20 to 75 LPM

- Measurement accuracy ±1%
- Pressure 3.5 bar
- Connections 1" F BSPT/1" F BSPT
- Totalizer 6 digits
- Current total 3 digits Liters (resettable)
- Outlet Left, Right, Up, Bottom
- Strainer No
- Optional Teflon (Model 807CTL1X418)



Model 901LX418 901L1.5X418

FLOW RATE 25 to 150 LPM

- Measurement accuracy ±2%
- Pressure 3.5 bar
- Connections **901LX418:** 1" F BSPT / 1" F BSPT
901L1.5X418: 1,5" F BSPT / 1,5" F BSPT
- Totalizer 7 digits
- Current total 4 digits Liters (resettable)
- Outlet Left, Right, Up, Bottom
- Strainer No
- Optional Teflon (Only for model 901TL1.5X418)



DIGITAL FLOW METERS

Model 820

FLOW RATE 8 to 75 LPM

- Measurement accuracy 0.2 % (liquid calibration) - 0.5 % (calibration factor)
- Pressure 8.2 bar
- Connections 1" F NPT/ 1" F NPT
- Totalizer 8 digits
- Current total 4 digits
- Outlet Left, Right, Up, Bottom
- Strainer No



HAND PUMPS

Model FR31L

1 L per Cycle

- Type Liter Stroke
- Connections 2" NPT threaded base with ½" NPT suction inlet
- 2" threaded tank adapter Yes
- Polypropylene suction pipe Yes
- Nozzle spout No
- Anti-siphon valve No
- Check Valve Yes



→ **Model FR110**

- Type
- Connections
- 2" NPT threaded tank adapter
- Hose
- Nozzle spout
- Anti-siphon valve
- Steel suction pipe
- Check Valve & strainer

Rotary Hand Pump
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 No
 No
 Yes
 No
 Yes

~ 38 L / 100 rev. or strokes



→ **Model FR112**

- Type
- Counter Kit in Liter
- Connections
- 2" NPT threaded tank adapter
- Discharge Hose / Length
- Nozzle spout
- Anti-siphon valve
- Steel suction pipe/ Length
- Check Valve & strainer

Rotary Hand Pump
 No
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 3/4" NPT - 2,4 m
 Yes
 Yes
 Yes / 1" M NPT x 1 m
 Yes

~ 38 L / 100 rev. or strokes



→ **Model FR112CL**

- Type
- Counter kit in Liter
- Connections
- 2" NPT threaded tank adapter
- Discharge Hose / Length
- Nozzle spout
- Anti-siphon valve
- Steel suction pipe/ Length
- Check Valve & strainer

Rotary Hand Pump
 Yes
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 3/4" NPT - 2,4 m
 Yes
 Yes
 Yes / 1" M NPT x 1 m
 Yes

~ 38 L / 100 rev. or strokes



→ **Model FR150**

- Type
- Connections
- 2" NPT threaded tank adapter
- Hose
- Nozzle spout
- Anti-siphon valve
- Steel suction pipe/ Length
- Check Valve & strainer

Piston Hand Pump
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 No
 No
 Yes
 No
 Yes

~ 38 L / 100 rev. or strokes



→ **Model FR151**

- Type
- Connections
- 2" NPT threaded tank adapter
- Hose
- Discharge spout assembly
- Anti-siphon valve
- Telescopic steel suction pipe
- Check Valve & strainer

Piston Hand Pump
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 No
 Yes
 Yes
 YES/ 1" M NPT x 1 m
 Yes

~ 38 L / 100 rev. or strokes



→ **Model FR152**

- Type
- Connections
- 2" NPT threaded tank adapter
- Discharge Hose
- Nozzle spout
- Anti-siphon valve
- Telescopic steel suction pipe
- Check Valve & strainer

Piston Hand Pump
 1" F NPT inlet, 3/4" F NPT outlet
 Yes
 3/4" NPT - 2,4 m
 Yes
 Yes
 Yes/ 1" M NPT x 1 m
 Yes

~ 38 L / 100 rev. or strokes



12 V = 30 = 24 V

DIAPHRAGM AC & DC PUMPS

Model FR205

- Motor ¼ HP, 10 Amp
- Connections 1" F NPT inlet / 1" F NPT outlet
- FilCon™ Diaphragm Yes
- Telescopic steel suction pipe No
- Discharge Hose No
- Nozzle No
- Threated Tank Adapter 2" integrated
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass valve & built in strainer No

30 24 V DC MAX 50 LPM*



Model FR210

- Motor ¼ HP, 10 Amp
- Connections 1" F NPT inlet / 1" F NPT outlet
- FilCon™ Diaphragm Yes
- Telescopic steel suction pipe 1" NPT x 1 m
- Discharge Hose Ø 1" NPT x 3,6 m
- Nozzle Manual + size (1" F NPT)
- Threated Tank Adapter 2" integrated
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass valve & built in strainer No

30 24 V DC MAX 50 LPM*



Model FR410

- Motor ¼ HP, 20 Amp
- Connections 1" F NPT inlet / 1" F NPT outlet
- FilCon™ Diaphragm Yes
- Telescopic steel suction pipe 1" NPT x 1 m
- Discharge Hose Ø 1" NPT x 3,6 m
- Nozzle manual + size (1" F NPT)
- Threated Tank Adapter 2" integrated
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass valve & built in strainer No

30 12 V DC MAX 50 LPM*



Model FR450 E

- Motor ¼ HP 230 Volt AC
- Connections 1" F NPT inlet / 1" F NPT outlet
- FilCon™ Diaphragm Yes
- Telescopic steel suction pipe 1" NPT x 1 m
- Discharge Hose Ø 1" NPT x 3,6 m
- Nozzle Manual + size (1" F NPT)
- Threated Tank Adapter 2" integrated
- Built-in check valve No
- Thermal overload protection Yes
- Self-priming Yes
- By-pass valve & built in strainer No

30 230 V AC MAX 50 LPM*



AVAILABLE OPTION : MECHANICAL METER 800 SERIES / DIGITAL METER 820 SERIE

* Flow Rate varies depending on viscosity of fluid

12 V = 30 = 24 V

12 V = 30 = 24 V

DC VANE PUMPS

Model FR1205 CE

- Motor
- Type
- Inlet port size
- Outlet port size
- Threaded TK adapter
- Built-in check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer

¼ HP, 20 Amp
 Heavy Duty Transfer Pump
 1" F BSPP
 ¾" F BSPT
 2" BSPT M integrated
 Yes
 Yes
 Yes
 Yes

30 ATEX 12 V DC MAX 55 LPM*



Model FR2405 CE

- Motor
- Type
- Inlet port size
- Outlet port size
- Threaded TK adapter
- Built-in check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer

¼ HP, 10 Amp
 Heavy Duty Transfer Pump
 1" F BSPP
 ¾" F BSPT
 2" BSPT M integrated
 Yes
 Yes
 Yes
 Yes

30 ATEX 24 V DC MAX 60 LPM*



Model FR4205 DE

- Motor
- Type
- Inlet port size
- Outlet port size
- Threaded TK adapter
- Built-in check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer

¼ HP, 22 Amp
 High Flow Transfer Pump
 1" F BSPP
 1" F BSPT
 2" M BSPT integrated
 Yes
 Yes
 Yes
 Yes

30 ATEX 12 V DC MAX 75 LPM*



Model FR4405 DE

- Motor
- Type
- Inlet port size
- Outlet port size
- Threaded TK adapter
- Built-in check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer

¼ HP, 13 Amp
 High Flow Transfer Pump
 1" F BSPP
 1" F BSPT
 2" M BSPT integrated
 Yes
 Yes
 Yes
 Yes

30 ATEX 24 V DC MAX 75 LPM*



AVAILABLE OPTIONS

- Meter
- Discharge Hose
- Telescopic steel suction Pipe
- Nozzle

See the Mix'N'Match Chart Poster.



* Flow Rate varies depending on viscosity of fluid

12 V = 30 = 24 V

12 V = 30 = 24 V

AC VANE PUMPS

Model FR705 VE

- Motor
- Type
- Inlet port size
- Outlet port size
- Tank adapter - Suction Thread
- Threaded TK adapter
- Meter
- Internal check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer
- Anti-siphon valve

1/3 HP
Heavy Duty Transfer Pump
2" F BSPT
1" F BSPT
1" F BSPP
2" M BSPT
No
Yes
Yes
Yes
Yes
Yes

30 ATEX 230 V AC MAX 75 LPM*



Model FR701 VEL

- Motor
- Type
- Inlet port size
- Outlet port size
- Tank adapter - Suction Thread
- Threaded TK adapter
- Meter
- Internal check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer
- Anti-siphon valve

1/3 HP
Heavy Duty Transfer Pump
2" F BSPT
1" F BSPT
1" F BSPP
2" M BSPT
807CL1X418
Yes
Yes
Yes
Yes
Yes

30 ATEX 230 V AC MAX 70 LPM*



Model FR318 VE

- Motor
- Type
- Inlet port size
- Outlet port size
- Tank adapter - Suction Thread
- Threaded TK adapter
- Meter
- Internal check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer
- Anti-siphon valve

3/4 HP
Heavy Duty Transfer Pump
2" F BSPT
1" F BSPT
1" 1/2 F BSPP
2" M BSPT
No
Yes
Yes
Yes
Yes
Yes

30 ATEX 230 V AC MAX 130 LPM*



Model FR311 VEL

- Motor
- Type
- Inlet port size
- Outlet port size
- Tank adapter - Suction Thread
- Threaded TK adapter
- Meter
- Internal check valve
- Thermal overload protection
- Self-priming
- By-pass valve & built in strainer
- Anti-siphon valve

3/4 HP
Heavy Duty Transfer Pump
2" F BSPT
1" F BSPT
1" 1/2 F BSPP
2" M BSPT
901LX418
Yes
Yes
Yes
Yes
Yes

30 ATEX 230 V AC MAX 120 LPM*



AVAILABLE OPTIONS

- Nozzle
- Discharge Hose
- Telescopic steel suction Pipe for 700

See the Mix'N'Match Chart Poster.



* Flow Rate varies depending on viscosity of fluid

12 V = 30 = 24 V

30

LPE OIL PUMP

Model LPE3.4B14L

- Motor 1/3 HP
- Type Heavy Duty Gear Pump
- Maximum outlet pressure 3.4 bar
- Inlet / Outlet thread 2" F BSPT / 3/4" F BSPT
- Inlet suction thread 1" F BSPT
- Quick detach coupler suction thread 1" F BSPT
- Quick detach coupler thread 2" M BSPT
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass & pressure relief valve Yes
- Built in Strainer Yes

30

230 V AC / 50Hz MAX 14 LPM



Model LPE3.4B27L

- Motor 1 HP
- Type Heavy Duty Gear Pump
- Maximum outlet pressure 3.4 bar
- Inlet / Outlet thread 2" F BSPT / 3/4" F BSPT
- Inlet suction thread 1" F BSPT
- Quick detach coupler suction thread 1" F BSPT
- Quick detach coupler thread 2" M BSPT
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass & pressure relief valve Yes
- Built in Strainer Yes

30

230 V AC / 50Hz MAX 27 LPM



Model LPE13.8B14L

- Motor 1 HP
- Type Heavy Duty Gear Pump
- Maximum outlet pressure 13.8 bar
- Inlet / Outlet thread 2" F BSPT / 3/4" F BSPT
- Inlet suction thread 1" F BSPT
- Quick detach coupler suction thread 1" F BSPT
- Quick detach coupler thread 2" M BSPT
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass & pressure relief valve Yes
- Built in Strainer Yes

30

230 V AC / 50Hz MAX 14 LPM



Model LPE13.8B27L

- Motor 2 HP
- Type Heavy Duty Gear Pump
- Maximum outlet pressure 13.8 bar
- Inlet / Outlet thread 2" F BSPT / 3/4" F BSPT
- Inlet suction thread 1" F BSPT
- Quick detach coupler suction thread 1" F BSPT
- Quick detach coupler thread 2" M BSPT
- Built-in check valve Yes
- Thermal overload protection Yes
- Self-priming Yes
- By-pass & pressure relief valve Yes
- Built in Strainer Yes

30

230 V AC / 50Hz MAX 27 LPM



30

ACCESSORIES

NOZZLES WITH HOOK AND SWIVEL

				References
• Manual Nozzle	— 1" F BSPT	— 100 lpm		2705150500020
• Manual Nozzle for ATEX	— 1" F BSPT	— 100 lpm	— Viton seal	2705150550000
• Automatic Nozzle	— 1" F BSPT	— 60 lpm		41210001
• Automatic Nozzle	— 1" F BSPT	— 60 lpm	— UN	41210002
• Automatic Nozzle	— 1" F BSPT	— 120 lpm		41210003

RUBBER HOSES

				References
• 4 m. hose Ø19 mm	— 1" M BSPT x ¾" M BSPT			201015035010
• 4 m. hose Ø19 mm	— 1" M BSPT x ¾" M BSPT	— NORM DIN EN1360		201015035010AX
• 4 m. hose Ø25 mm	— 1" M BSPT x 1" M BSPT			201025035020
• 4 m. hose Ø25 mm	— 1" M BSPT x 1" M BSPT	— NORM DIN EN1360		201015035020AX

TELESCOPIC SUCTION PIPE

		References
• Telescopic steel suction pipe 1" M BSPP x 1 M		240007000000

REPAIR KITS

	References
• SERIES 100 PUMP	100KTF1214
• SERIES 600, 1200B, 2400B	1200KTF6725
• SERIES 300 PUMP, WITH ROTOR COVER	300KTF7794
• SERIES 30 INCLUDES PISTON	30KTF4919
• SERIES 400 RED PUMP	400KTF6862
• 600C, 1200C, 2400C, 4200D, AND 4400	4200KTF8739
• SERIES 700B, CARBON VANE	700KTF2659
• SERIES 700A	700KTF3139
• 800B & 800C LITER, BUNA-N	800KTG2542
• 825 METER	825KTF1582
• 900, LITERS, STANDARD SEALS	900KTF8121

ALUMINIUM MANUAL NOZZLE



AUTOMATIC NOZZLE - 1" - 120 L







TUTHILL ITALIA SPA

Via della Resistenza 46/48
41011 Campogalliano (Mo) • Italy
Phone +39 059 528128 • Fax +39 059 528437
tuthillitalia@tuthill.com • www.tuthill.com

TUTHILL BENELUX SA

Parc Industriel Wavre Nord • Avenue Vésale 30
1300 Wavre • Belgique
Phone +32 10 228334 • Fax +32 10 228338
benelux@tuthill.com • www.tuthill.com

 **Tuthill**