

DRUM/BARREL PUMPS



INSPIRED. SOLUTIONS. FOR CUSTOMERS.

DRUM PUMPS **PF-SERIES**

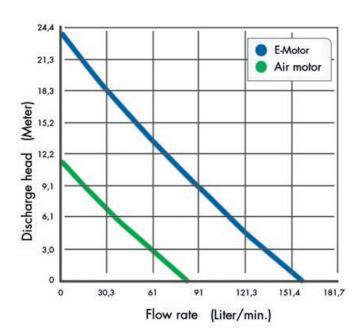
Sealless, High Performance

Unique double suction impeller provides high flow and high head. Sealless design improves reliability. Model PFS offers FDA-compliant material and ATEX 2014/34/EU certified options.

APPLICATIONS

Acids, bases, solvents¹⁾, flammables¹⁾, water treatment chemicals, cleaners, plating solutions, kidney dialysis solutions, sanitary, diesel exhaust fluid (DEF)/AdBlue

TECHNICAL DATA	\		
Flow rate 2)	[max. litres/min]	up to	151
Discharge head ²⁾	[max. mWC]	up to	24
		PP	71
Temperature	[max. °C]	PVDF 3)	49
		316SS	105
Specific gravity	[max. kg/dm³]		1,8
V::-	[manus aD]	with elctric motor	2.000
Viscosity	[max. cP]	with air motor	330
Tube diameter	[mm]		51
Discharge connection	[mm]		25



See MOTOR DATA pages for applicable motor models.

Actual performance will decrease with increased fluid viscosity and specific gravity.



TUBE LENGTHS

69cm (27"), **102cm** (40"), **122cm** (48"), **152cm** (60"), **183cm** (72")

DOUBLE IMPELLER

Double suction impeller provides both high flow rates and high discharge pressure.



THREADED FOOT

Heavy duty threaded foot prevents breakage.



Туре	Outer tube	Internals
PFM	PP	316SS, PP, FKM, PVDF, PTFE
PFP	PP	Alloy 625, PP, FKM, PVDF, PTFE
PFV	PVDF	Alloy 625, FKM, PVDF, PTFE
PVS	316SS	316SS, FKM, ETFE, PTFE

When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

 $^{^{2}l}$ All testing performed with water at 68° F (20° C) in a full container with the discharge barb at maximum opening. Actual performance may vary by +/- 10%.

 $^{^{3)}}$ PFV-72 = 46°C maximum temperature

DRUM PUMPS **EF-SERIES**

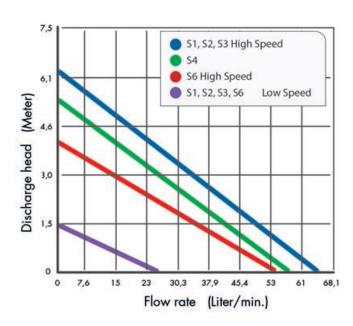
Sealless, Best Value

This pump provides an economical choice for light duty transfer. Ideal replacement for hand pumps. ATEX 2014/34/EU certified options available.

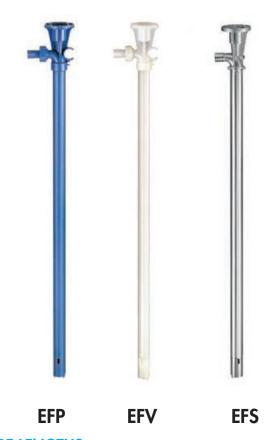
APPLICATIONS

Light acids and bases, solvents¹⁾, flammables¹⁾, plating solutions, sodium hypochlorite, cleaners, coolants, diesel exhaust fluid (DEF)/Ad-

TECHNICAL DATA	\		
Flow rate 2)	[max. litres/min]	up to	64,4
Discharge head ²⁾	[max. mWC]	up to	6,1
		PP	66
Temperature	[max. °C]	PVDF	71
		316SS	100
Specific gravity 3)	[max. kg/dm³]		1,6
		with elctric motor	300
Viscosity 3)	[max. cP]	with air motor	300
			100
Tube diameter	[mm]	EFP, EFS	32
Tube didineter	[mm]	EFV	33
Discharge connection	[mm]		19



See MOTOR DATA pages for applicable motor models.



TUBE LENGTHS

EFP/EFV: 41cm (16"), 69cm (27"), 102cm (40"), 122cm (48"), 137cm (54")

EFS: 41cm (16"), 69cm (27"), 102cm (40"), 122cm (48")

AXIAL FLOW IMPELLER

Designed to produce higher flow rates.



BUILT-IN STRAINER

Prevents solids from entering the tube and damaging the pump. (EFP/EFV only).



Туре	Outer tube	Internals
EFP	PP	316SS, FKM, PTFE, PP
EFV	pure PP/PVDF	Alloy 625, FKM, PTFE, PP
EFS	316SS	316SS, FKM, PTFE, ETFE

 $^{^{1\!\}mathrm{j}}$ When pumping flammables or combustibles, use air drive motors on stainless steel tubes with static protection kit.

 $^{^{2)}}$ All testing performed with water at 68oF (20oC). Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

³⁾ Maximum specific gravity is dependent on fluid viscosity; maximum fluid viscosity is dependent upon specific gravity

DRUM PUMPS TT-SERIES

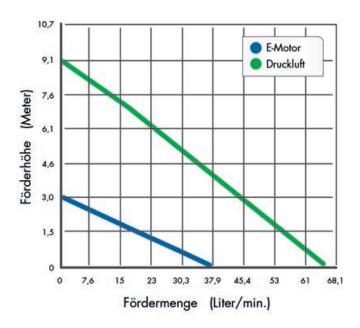
Sealed, Medium Viscosity/Flow

Sealed pump with PTFE screw-type lifting compressors. Ideal for liquids containing small particulate or solvents. Model STTS constructed of FDA-compliant materials.

APPLICATIONS

Inks, paints, solvents 1), sanitary, sodium hypochlorite, food products

TECHNICAL DATA	\		
Flow rate 2)	[max. litres/min]	up to	61
Discharge head ²⁾	[max. mWC]	up to	9
Temperature	[max. °C]		66
Specific gravity	[max. kg/dm³]		1,8
V::h.			500
Viscosity	[max. cP]	with air motor	2.000
Tube diameter	[]	TTS, STTS	38
Tube diameter	[mm]	TTC	41
Discharge connection	[mm]		25



See MOTOR DATA pages for applicable motor models.



TUBE LENGTHS

ΠC/ΠS: 69cm (27"), 102cm (40"), 122cm (48") STTS: 102cm (40")

SCREW-TYPE LIFTING COMPRESSOR

Designed to allow passage of small solids.



BOTTOM BEARING/ STRAINER

PTFE bottom bearing/strainer prevents potentially damaging large solids from entering the pump.



Туре	Outer tube	Internals
TTS	316SS	316SS, PTFE
TTC	CPVC	Alloy 625, PTFE
STTS	316SS	316SS, PTFE

When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

²⁾ All testing performed with water at 20°C. Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

DRUM PUMPS BT-/HVDP-SERIES

High Viscosity/High Head

BT Series - High viscosity sealed design with PTFE screw-type lifting compressors for liquids up to 15.000 cP.

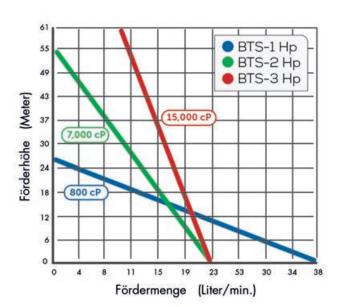
HVDP Series - Progressive cavity, positive displacement, mechanically sealed pump for high viscosity liquids up to 20.000 cP (HR model - pictured) or 100.000 cP (LR model).

FDA-compliant material options.

APPLICATIONS

Oils, resins, solvents 1), waxes, adhesives, gear lube, glycerin, silicone, lotions, polymers, honey, juice concentrate, hair and bath gel, corn syrup, etc.

TECHNICAL DATA	\		
Flow rate 2)	[max. litres/min]	up to	38
Discharge head ²⁾	[max. mWC]	BTS	61
Discharge fledd -	[max. mvvc]	HVDP	91
Tomporatura	[max. °C]	BTS	93
Temperature	[max. C]	HVDP	82
Specific gravity	[max. kg/dm³]		1,8
		BTS	15.000
Viscosity	[max. cP]	HVDP-HR	20.000
		HVDP-LR	100.000
Tube diameter	[mm]		51
Discharge connection	[mm]	BTS	38
Discharge confidential	charge connection [mm]	HVDP	38 (optional 50)



See MOTOR DATA pages for applicable motor models.

TUBE LENGTHS

BTS:

102cm (40")

HVDP:

69cm (27"), 102cm (40"), 122cm (48")





HVDP PROGRESSIVE CAVITY POSITIVE DISPLACEMENT

Designed for high viscosities.

BT SCREW-TYPE LIFTING COMPRESSOR

Designed to allow passage of small solids.





UNIQUE CAMLOCK FEATURE For quick disassembly of the HVDP.

A= 35,000 cP ■ B= 25,000 cP 76,2 C= 15,000 cP D= 10,000 cP örderhöhe (Meter) ■ E= 2,000 cP 45,7 30,5 15,2 3,8 30,3 Fördermenge (Liter/min.)

Туре	Outer tube	Internals
BTS	316SS	316SS, PTFE
HVDP	316SS	316SS, Buna N, FKM, PTFE

¹⁾ When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

 $^{^{2)}}$ All testing performed with water at 20°C. Actual performance can vary by +/- 10% Actual performance will decrease with increased fluid viscosity and specific gravity.

DRUM PUMPS TB-SERIES

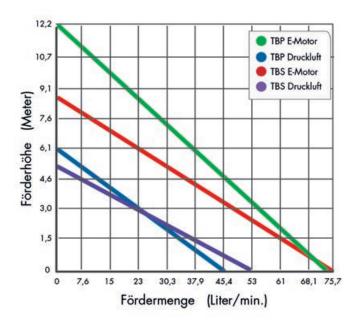
Sealed, Lightweight Economy Drum Pump

Lightweight pumps suitable for low to medium viscosity mild corrosives, solvents, and chemicals. Fits smaller bung openings.

APPLICATIONS

Acids, bases, solvents 1), water treatment chemicals, bleach, swimming pool chemicals,

TECHNICAL DATA			
Flow rate 2)	[max. litres/min]	up to	75,7
Diaghanna haard 21	[TBS	8,5
Discharge head ²⁾	[max. mWC]	TBP	12,5
Temperature	[max. °C]		66
Specific gravity	[max. kg/dm³]		1,4
Viscosity	[max. cP]		200
Tube diameter	[]	TBS	38
Tube diameter	[mm]	TBP	41
Discharge connection	[mm]		22





TUBE LENGTHS

TBS: 69cm (27"), 102cm (40"), 122cm (48")

TBP: 102cm (40")

SCREW-TYPE LIFTING COMPRESSOR

Designed to allow passage of small solids.



VARIABLE ORIFICE

The TBP variable flow barb allows flow to be increased by removing steps on barb.



See MOTOR DATA pages for applicable motor models.

Туре	Outer tube	Internals
TBS	316SS	316SS, PTFE
TBP	pure PP	pure PVDF, Alloy 625, PTFE

 $^{^{1)}}$ When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit.

²⁾ All testing performed with water at 20°C. Actual performance can vary by +/- 10%. Actual performance will decrease with increased fluid viscosity and specific gravity.

PUMP MIXER TM-SERIES

Sealed, Light/Medium Viscosity

Sealed mixer with 4-blade turbine mixing/blending capability. Ideal for mixing drums with settled materials.

APPLICATIONS

Dyes, inks, paints, stains, mild corrosives, solvents 1), flammables 1)

TECHNICAL DATA		
Circulation	[max. litres/min]	53
Temperature	[max. °C]	93
Specific gravity:	[max. kg/dm³]	1,8
Viscosity	[max. cP]	1.000
Tube diameter	[mm]	51
Discharge connection	[mm]	25

Fluid is pulled into the top of the mixer tube and is discharged under pressure out of the bottom in a continuous blending cycle.

Top-to-bottom mixing action allows rapid suspension of settled solids.



See MOTOR DATA pages for applicable motor models.



TMS

TUBE LENGTH

102cm (40")



TURBINE

Provides high intensity mixing and suspension of settled solids.



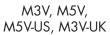
Туре	Outer tube	Internals
TMS	316SS	316SS, PTFE

¹⁾ When pumping flammables or combustibles, use explosion proof electric or air drive motors on stainless steel tubes with static protection kit,

MOTOR DATA

for Drum/Barrel Pumps







S1, S2, S3, S6



M3T, M5T, M7T, M8T



M15, M16, M17



M73, M74, M75, M76

STANDARD MOTORS, SPLASHPROOF, IP24

Туре	for Series	Description	Certification	Electrical Requirements	Input	Output	Speed	Maximum Viscosity
				[Volt/Hz]	[Watt]	[Watt]	[U/min.]	[cP]
M3V	PF, TB	quick connects to pump without tools. Downdraft cooling system and double wall housing. Continuous duty, variable speed. 3,5m cord and integral circuit breaker included.	CSA	115 V AC / 50-60 Hz	650	400	3.500-10.000	500
M5V	PF, TB		CE	230 V AC / 50-60 Hz	650	400	3.500-10.000	500
M5V-US*	PF, TB		CE	230 V AC / 50-60 Hz	650	400	3.500-10.000	500
M3V-UK	PF, TB		CE	115 V AC / 50-60 Hz	650	400	3.500-10.000	500
S 1	EF	ergonomic, lightweight design with downdraft cooling. Conti- nuous duty, dual speed, double insulated. 3,5m cord and manual reset circuit breaker included.	CSA	115 V AC / 60 Hz	230	110	8.000-14.000	300
S2	EF		CE	230 V AC / 50-60 Hz	230	110	8.000-14.000	300
S 3	EF		CE	115 V AC / 50-60 Hz	230	110	8.000-14.000	300
S6	EF	Lightweight cordless design. Built-in rechargeable lithium ion battery, dual speed, overload protection. Charging jack w/ flip cover.	CE	12 V (10,8 V work load)	150	100	8.000-12.000	100

STANDARD MOTORS, TOTALLY ENCLOSED FAN COOLED, IP54

Туре	for Series	Description	Certification	Electrical Requirements	Input	Output	Speed	Maximum Viscosity
				[Volt/Hz]	[Watt]	[Watt]	[U/min.]	[cP]
МЗТ	PF, TB	Molded plastic housing features integral handle. Continuous duty. A 3,5m cord and circuit breaker with manual reset are provided.	CSA	115 V AC / 60 Hz	1.000	680	12.000	1.000
M5T	PF, TB		CE	230 V AC / 50-60 Hz	1.000	680	12.000	1.000
M3TV	PF, TB		CSA	115 V AC / 60 Hz	1.000	680	0 - 12.000	2.000
M5TV	PF, TB		CE	230 V AC / 50-60 Hz	1.000	680	0 - 12.000	2.000
M7TV	TT, TM		CSA	115 V AC / 50-60 Hz	450	250	0 - 6.000	500
W8TV	TT, TM		CE	230 V AC / 50-60 Hz	450	250	0 - 6.000	500
M15	BT	Continuous duty. A 3,5m cord is provided.	**	230 / 460 V / 60 Hz	***	0,75 kW	3.450	800
M16	BT			230 / 460 V / 60 Hz	***	1,5 kW	1.725	7.000
M17	BT	· '		230 / 460 V / 60 Hz	***	2,2 kW	1.725	15.000
M73	HVDP	IP55, Continuous duty, variable speed. A 3,5m cord and circuit breaker with manual reset is provided.	CSA	115 V AC / 50-60 Hz	1.000	680	12.000	10.000
M74	HVDP		CE	230 V AC / 50-60 Hz	1.000	680	12.000	10.000
M75	HVDP		CSA	115 V AC / 50-60 Hz	1.000	680	0 - 12.000	20.000
M76	HVDP		CE	230 V AC / 50-60 Hz	1.000	680	0 - 12.000	20.000

^{*} Suitable for 230V, 60 Hz. Includes a NEMA 6-15 plug.

^{**} Carries independent testing laboratory approval.

^{**} Input power for induction motors will vary by manufacturer.

MOTOR DATA

for Drum/Barrel Pumps











M3XV, M5XV, M8XV

M6, M6X

M18, M19, M20

M65, M66

S4

EXPLOSION PROOF MOTORS

Туре	for Series	Description	Certification	Electrical Requirements	Input	Output	Speed	Maximum Viscosity
				[Volt/Hz]	[Watt]	[Watt]	[U/min.]	[cP]
M3XV	PF	Explosion proof design suitable for use in hazardous areas and ideal for applications with flammable liquids. The TEFC housing protects the motor internals from dust, corrosive vapors and water splashes. A 3,5m cord and internal circuit breaker are provided. Continuous duty rated.	CSA	115 V AC / 60 Hz	1.000	680	0 - 12.000	2.000
M5XV	TT, TM, PF		CE/ATEX Ex II 2G Ex d ib IIB T5 Gb	230 V AC / 50-60 Hz	1.000	680	0 - 12.000	2.000
M8XV	PF, TB		CE/ATEX Ex II 2G Ex d ib IIB T5 Gb	230 V AC / 50-60 Hz	450	250	0 - 6.000	500

AIR MOTORS 1)

Туре	for Series	Description	Certification	Luftanforderungen	Output	Speed	Maximum Viscosity
					[Watt]	[U/min.]	[cP]
M6	PF, TT, TB		CE	5,5 - 6,9 bar @ 25-54 m³/h	400	300 - 9.000	330
M6X	PF, TT, TB, TM		CE	5,5 - 6,9 bar @ 25-54 m³/h	600	300 - 6.000	330
M18	ВТ	Variable speed via supplied		6,9 bar @ 68-119 m³/h	750	300 - 3.000	800
M19	ВТ	control valve. Motors are	CE	6,9 bar @ 136-204 m³/h	1.500	300 - 3.000	7.000
M20	ВТ	provided with		6,9 bar @ 204-289 m³/h	2.200	300 - 2.500	15.000
M65	HVDP	muffler and control valve.	CE	6,9 bar @ 42,5 m³/h	560	300 - 3.000	15.000
M66	HVDP			6,9 bar @ 119 m³/h	1.000	300 - 3.000	100.000
S4	EF		CE	2,8 bar @ 46 m³/h	400	300 - 11.000	300

¹⁾ An air motor is a non-electrical device which means the possibility of explosion from igniting flammables or combustibles is reduced. Air motor performance will depend upon user's compressor and system setup.

ACCESSORIES

FLOW METERS

- Dispense precise amount of fluids from containers.
- Handles chemicals and corrosive liquids.
- Large LCD display in GPM or LPM, 20 cP maximum +/-1% accuracy and repeatability.
 All models are factory calibrated.
 Some models may be field calibrated.

- Batch control versions available.
- Corrosion resistant polypropylene or PVDF.Engineered connections for fast assembly to PFM, PFP and PFV drum pumps.





DISCHARGE TUBING

Flexible tubing connects to the pump discharge. Available in PVC, reinforced PVC and special EPDM for Diesel Exhaust Fluid applications.



Strainers attach to pump tubes preventing foreign objects from entering the pump.





WALL MOUNT BRACKET

Allows pump to be stored in an upright position.

DRUM ADAPTERS

Secures the pump tube in the barrel's bung opening. Fits standard 2" NPT bung opening. Available in polypropylene, galvanized or stainless steel.



ACCESSORIES

CHARGERS

Double insulated with LED charge status indicator forrecharging S6 battery motor. Available in 115V with US plug, 230V with Euro plug or 12V for use in most vehicle outlets.





STATIC PROTECTION KIT

Increases safety when transferring flammable or combustible liquids. Kit includes cross-linked polyethylene grounded hose, ground wire and clamps.



4,6m air hose assembly sold separately.





FILTER/ LUBRICATOR ASSEMBLY

Conditions compressed air by removing free moisture and solids. Also lubricates the air for longer air motor life.

NOZZLES

Nozzles provide a convenient way to control liquid flow. Available in polypropylene, aluminum and stainless steel.







