



PUMPTUBE DATA

PF Series Pump Tubes

Sealless, High Performance

Unique double suction impeller provides high flow and high head. Handles acids, caustics, chemicals and flammables[†].

Applications: Acids, bases, solvents†, water treatment chemicals, cleaners, plating solutions, kidney dialysis solutions, diesel exhaust fluid (DEF)/ AdBlue

Construction Specifications

Pump	Co	nstruction Materials	Tube Dia.	Max.7	emp.*
Series	Outer Tube	Internals	in (cm)	۰F	°C
PFM	Polypro	316 SS, Polypro, FKM, PVDF			
PFP	Polypro	Alloy 625, Polypro, FKM, PVDF	2 (5.1)	160	71
PFV*	PVDF	Alloy 625, FKM, PVDF		120	49
PFS	316SS	316SS, FKM, ETFE		220	105

*PFV-72 = 115°F (46C)



Tube Lengths

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

Performance Data

Duman	Hose	Maximur	n Flow**	Maximur	n Head**	May Ca	Max.Visc	osity-cP
Pump Series	Size	Electric gpm (lpm)	<u>Air</u> gpm (lpm)	Electric ft (m)	<u>Air</u> ft (m)	Max. Sp Gravity	Electric	Air
PFP, PFM PFV, PFS [†]	1"	40 (151)	22 (83)	80 (24)	38 (11.6)	1.8	2,000	330

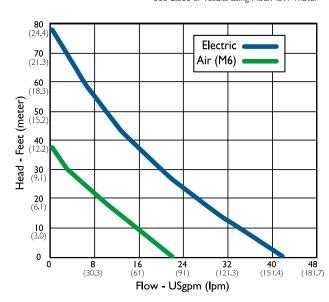
Viscosity Data

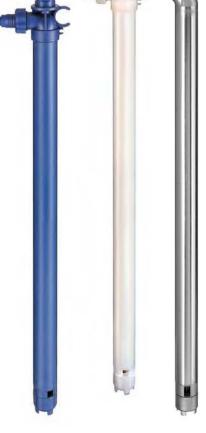
Viscosity (cP)	100	250	500	1,000	2,000
Max Flow gpm (lpm)	24 (91)	16 (61)	11 (42)	7 (26)	4 (15)
Max Head feet (meter)	52 (16)	51 (16)	48 (15)	45 (14)	28 (9)

Note: 100-500 cP results using M3/M5V motor; 500-2,000 cP results using M58/M59P motor

Motor Model

Pump	Uses Model
	M3V, M5V, M5V-US
	M3T, M5T
PF	M3X, M5X, M10X
	M58P, M59P
	M6, M6X







PUMPTUBE DATA

EF Series Pump Tubes

Sealless, Best Value

This pump provides an economical choice for light duty transfer. Ideal replacement for hand pumps.

<u>Applications</u>: Light acids and bases, solvents[†], plating solutions, sodium hypochlorite, cleaners, coolants, diesel exhaust fluid (DEF)/ AdBlue



Construction Specifications

Pump	Construction Materials		Tube Dia.	Max.	Temp.
Series	Outer Tube	Internals	in (cm)	°F	°C
EFP	Polypro	316SS, FKM, PTFE, PP		150	66
EFV	Pure PP/ PVDF	Alloy 625, FKM, PTFE, ETFE, PP	1-1/4 (3.18)	160	71
EFS	316SS	316SS, FKM, PTFE, ETFE		212	100



Performance Data

D		Maximum Flow*		Maximum Head*		M C-	Max.Viso	osity-cP
Pump Series	Hose Size	Electric gpm (lpm)	<u>Air</u> gpm (lpm)	Electric ft (m)	<u>Air</u> ft (m)	Max. Sp Gravity	Electric	Air
EFP, EFV EFS	3/4''	17 (64.4)	15 (56.8)	20 (6.1)	17 (5.2)	1.2	300	300

Tube Lengths 16" (41cm), 27" (69c

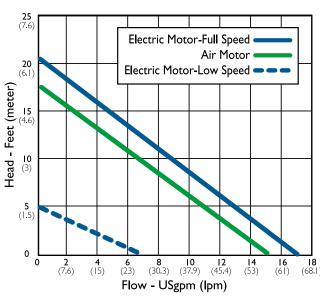
16" (41cm), 27" (69cm), 40" (102cm), 48" (122cm)

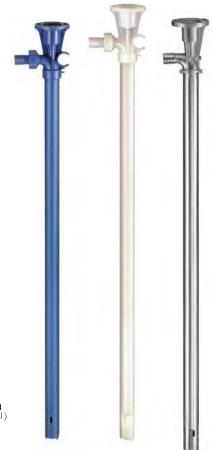
Viscosity Data

16 (5)	100	222	200
Viscosity (cP)	100	200	300
Max Flow gpm (lpm)	7 (26)	5 (19)	4 (14)
Max Head feet (meter)	16 (5)	16 (5)	16 (5)

Motor Model

Pump	Uses Model
EFP	S1, S2, S3
EFV EFS	S4







PUMPTUBE DATA

TT Series Pump Tubes

Sealed, Medium Viscosity/Flow

Sealed pump with PTFE screw-type lifting compressors. Ideal for liquids containing small particulate or solvents. Model STTS is sanitary construction.

<u>Applications</u>: Inks, paints, solvents[†], sodium hypochlorite, food products



Construction Specifications

Pump	Constructio	Tube Dia.	Max.	Temp.	
Series	Outer Tube	Internals	in (cm)	°F	°C
TTS	316SS	316SS, PTFE	1-1/2 (3.8)		
TTC	CPVC	Alloy 625, PTFE	1-5/8 (4.1)	150	66
STTS	316SS	316SS, PTFE	1-1/2 (3.8)		





Performance Data

D	Harr	Maximu	Maximum Flow* Maximum Head*		m Head*	M C-	Max.Visc	osity-cP
Pump Series	Hose Size	Electric gpm (lpm)	<u>Air</u> gpm (lpm)	Electric ft (m)	Air ft (m)	Max. Sp Gravity	Electric	Air
TTS								
TTC	1"	10 (38)	16 (61)	10 (3)	30 (9)	1.8	500	2,000
STTS								

Tube Lengths

TTC,TTS - 27" (69cm), 40" (102cm), 48" (122cm) STTS - 40" (102cm)

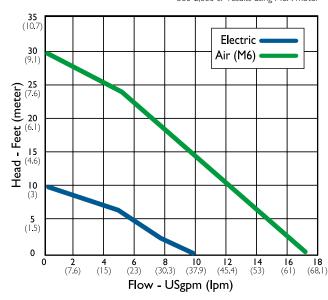
Viscosity Data

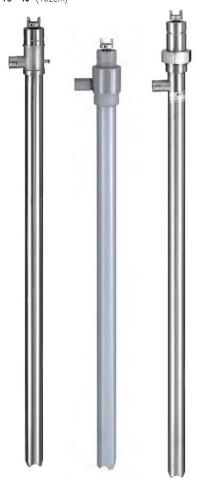
Viscosity (cP)	100	250	500	1,000	2,000
Max Flow gpm (lpm)	7 (26)	6 (23)	3 (11)	4 (15)	3 (11)
Max Head feet (meter)	25 (8)	35 (11)	48 (15)	60 (18)	28 (9)

Note: 100-500 cP results using M7T/M8T motor; 500-2,000 cP results using M6X motor

Motor Model

Pump	Uses Model
TTS	M7T, M8T
TTC	M7X
STTS	M6, M6X





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PUMPTUBE DATA

BT/HVDP Pump Tubes

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) or 100,000 cP (LR model)

<u>Applications</u>: Oils, resins, solvents[†], waxes, adhesives, gear lube, glycerin, silicone, lotions, polymers, honey, juice concentrate, hair & bath gel, corn syrup, etc.





Construction Specifications

Pump	Constructi	on Materials	Tube Dia.	Max.Temp.		
Series Outer Tube Internals		in (cm)	۰F	ů		
BTS	316SS	PTFE, 316SS	2 (5.1)	200	93	
HVDP	316SS	316SS, Buna N, FKM, PTFE	2 (5.1)	180	82	

Motor Model

Pump Uses Model						
BTS	M15, M16, M17,					
DIO	M18, M19, M20					
HDVP-HR	M58H, M59H					
HDVP-LR	M60, M61, M62, M63, M64, M65, M66					

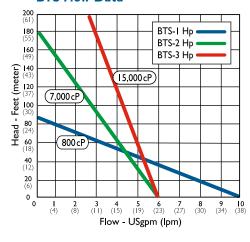
Tube Lengths

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

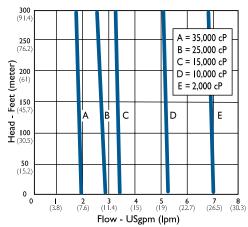
Performance Data

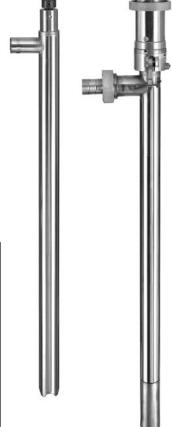
Dump	Hose	Maximum Flow*		Maximun	n Head*	Max. Sp	Max.Viscosity-cP		
Pump Series	Size	Electric gpm (lpm)	<u>Air</u> gpm (lpm)	Electric ft (m)	<u>Air</u> ft (m)	Gravity	Electric	Air	
BTS	1-1/2"	10 (38)	10 (38)	200 (61)	200 (61)	1.8	15,000	15,000	
HVDP-HR	1-1/2", 2"	9 (32)	9 (32)	300 (91)	300 (91)	1.8	20,000	20,000	
HVDP-LR	1-1/2", 2"	7 (27)	7 (27)	300 (91)	300 (91)	1.8	100,000	100,000	

BTS Flow Data



HVDP Flow Data







MOTOR DATA

for Drum/Barrel Pumps











M3V, M5V, M5V-US, M3V-UK

S1, S2, S3

M3T, M5T, M7T, M8T

M15, M16, M17

M58H, M59H, M58P, M59P

ODP (Open Drip Proof), Splashproof, IP24 Motors

Model	Description	T	Certi-	Electrical	Power		RPM	Max.	Pump	
Flodel	Description	Туре	fication	Requirements	HP	W	KFIT	Viscosity cP	Series	
M3V	Quick connects to pump without	I let sever	CSA	115VAC/50-60 Hz	4/5	650	3,500-10,000	500	PF	
M5V	tools. Downdraft cooling system and	Universal - Variable speed	CE	230VAC/50-60 Hz	4/5	650	3.500-10,000	500	PF	
M5V-US*	double wall housing. Continuous duty. A 12 ft. (3.5 m) cord with plug and	for precise fluid control		CE	230VAC/50-60 Hz	4/5	650	3,500-10,000	500	PF
M3V-UK	integral circuit breaker are provided.		CE	115VAC/50-60 Hz	4/5	650	3,500-10,000	500	PF	
SI	Ergonomic, lightweight design with downdraft cooling. Continuous duty.	Universal - two	CSA	115VAC/60 Hz	1/3	250	8,000 / 14,000	300	EF	
S2	A 12 ft. (3.5 m) cord with plug and	speed double insulated	CE	230VAC/50-60 Hz	1/3	250	8,000 / 14,000	300	EF	
S3	circuit breaker with manual reset are provided.		CE	115VAC/50-60 Hz	1/3	250	8,000 / 14,000	300	EF	

TEFC (Totally Enclosed Fan Cooled), IP54 Motors

M	D 1.0	-	Certi-	Electrical	Power		DDM	Max.	Pump
Model	Description	Туре	fication	Requirements	HP	W	RPM	Viscosity cP	Series
МЗТ		Universal - Single Speed	CSA	115VAC/50-60 Hz	4/5	640	10,000	500	PF
M5T	Molded plastic housing features integral handle. Continuous duty. A 12 ft. (3.5 m) cord with plug and	Universal - Single Speed	CE	230VAC/50-60 Hz	4/5	640	10,000	500	PF
M7T	circuit breaker with manual reset are provided.	Induction	CSA	115VAC/50-60 Hz	2/3	500	2,850/3,450	500	TT
M8T	- provisco.	Induction	CE	230VAC/50-60 Hz	2/3	500	2,850/3,450	500	TT
MI5		Induction		230/460V/60 Hz	- 1	746	3,450	800	ВТ
MI6	Continuous duty. A 12 ft. (3.5 m) cord is provided.		CSA, UL	230/460V/60 Hz	2	1,492	1,725	7,000	BT
MI7	is provided.			230/460V/60 Hz	3	2,238	1,725	15,000	BT
M58H				115VAC/50-60 Hz	1 1/3	1000	10,000	20,000	HVDP
M59H	Molded plastic housing features integral	I Iniversi - Variable		230VAC/50-60 Hz	1 1/3	1000	10,000	20,000	HVDP
М59НСЕ	handle. Continuous duty. A12 ft. (3.5 m) cord with plug and circuit breaker with manual reset is provided.	speed for precise	CE	230VAC/50-60 Hz	1 1/3	1000	10,000	20,000	HVDP
M58P				115VAC/50-60 Hz	1 1/3	1000	5,000-10,000	2,000	PF
M59P				230VAC/50-60 Hz	1 1/3	1000	5,000-10,000	2,000	PF
M59PCE			CE	230VAC/50-60 Hz	1 1/3	1000	5,000-10,000	2,000	PF

^{*} Suitable for 230V, 60 Hz. Includes a NEMA 6-15 plug. Note: Maximum viscosity can vary by pump series.



MOTOR DATA for Drum/Barrel Pumps



Explosion Proof Motors

Model	Description	Tree	Certi-	Electrical	Power		RPM	Max.	Pump
	Description	Туре	fication	Requirements	НР	W	Kriji	Viscosity cP	Series
M3X	Explosion proof design suitable for		CSA	115VAC/50-60 Hz	3/10	230	5,000	10	PF
M5X*	use in hazardous areas and ideal for applications with flammable liquids	TEFC, explosion proof	CE	230VAC/50-60 Hz	3/10	230	5,000	10	PF
M7X	The TEFC housing protects the motor internals from dust, corrosive vapors		CSA	115VAC/50-60 Hz	2/3	500	2,850-3,450	400	П
MIOX	and water splashes. A12ft. (3.5m) cord and internal circuit breaker are provided. Continuous duty rated.	explosion proof	CE/ATEX Ex II 2G Ex IIA T4	230VAC/50-60 Hz	4/5	640	10,000	500	PF

Air Motors **

Model	Description	Туре	Certi-	Air	Power		RPM	Max.	Pump									
	Description		fication	Requirements	HP	W	Krij	Viscosity cP	Series									
M6			CE/ ATEX Ex II 5GDc + I CTa+40C	80-100 psi@15-32 cfm	1/2	370	300-9,000	1,500†	PF,TT									
M6X			CE/ ATEX Ex II 5GDc + I CTa+40C	80-100 psi@15-32 cfm	3/4	560	300-6,000	2,000†	PF,TT									
MI8	Lightweight, easy to handle yet powerful. Operates from customer-supplied	Air		100 psi @ 40-70 cfm	1	746	300-3,000	800	ВТ									
MI9	compressed air source. Variable speed	7 111	CE	100 psi @ 80-120 cfm	2	1,492	300-3,000	7,000	BT									
M20	via supplied control valve. Motors are provided with muffler and control valve.												100 psi @ 120-170 cfm	3	2,238	300-2,500	15,000	BT
M65	provided with marrier and control valve.		CF	100 psi @ 25 cfm	3/4	560	300-3,000	15,000	HVDP									
M66			CE	100 psi @ 70 cfm	1-1/2	1000	300-3,000	100,000	HVDP									
S4			CE	40 psi @ 27 cfm	1/2	370	300 -11,000	300	EF									

Note: Maximum viscosity can vary by pump series.

- st Motor suitable for hazardous areas that do not require independent certification.
- ** 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.
- † Maximum viscosity for PF Series is 330 cP.

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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

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



Nozzles

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



Filter/ Lubricator Assembly

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



Static Protection Kit

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



Air Hose

15 feet (4.6m) air hose assembly sold separately.



Drum Adapters

Secures the pump tube in the barrels bung opening. Fits standard 2" IPS bung opening. Available in polypropylene, galvanized or stainless steel.



Wall Mount Bracket

Allows pump to be stored in an upright position





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