



MERKUR™

The Pump technology
for High Quality Finishing Applications



Today's Investment for Future Challenges

Features

- All stainless steel pump construction
- Low pulsation output, high flow rate delivery
- Low sound level air motor operation
- Wide range of pump ratios available including 15:1, 20:1, 30:1 and 40:1
- Enclosed throat seal and rod
- Self-adjusting pump packings

Benefits

- Handles a wide range of fluids
- Consistent pattern and films on parts; multiple gun capabilities
- Improves working conditions
- Higher pump ratios deliver a full range of material viscosities
- Contamination protection
- Less service downtime



MERKUR

Bare pump, Wall or Cart Mount: The Best Choice for Fine-Finish Applications.

More Power, Less Pulsation!

- High output fluid delivery models
- up to 50 cc per stroke.

Key Applications

- Wood furniture
- Wood cabinets
- General metal
- Spraying as well waterborne and solventborne as also 1K and 2K materials.

Simple Handling and Service

- Easy-to-flush design allows for fast color changes and reduced solvent usage
- Quick knock-down pump requires minimal tools and service time

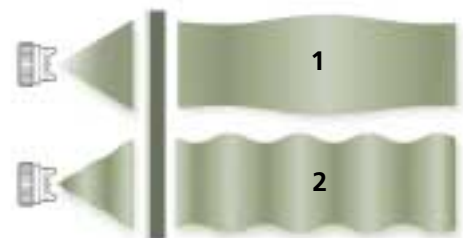
Lasting Durability Saves Money

- All wetted parts in Stainless Steel construction
- Low cycle rate operation increases pump life
- Unique rod and seal design enhances product life
- Low air consumption



Merkur 30:1
Cart Mount Package
233919

LOW PULSATION OUTPUT FOR EXCELLENT FINISH QUALITY!

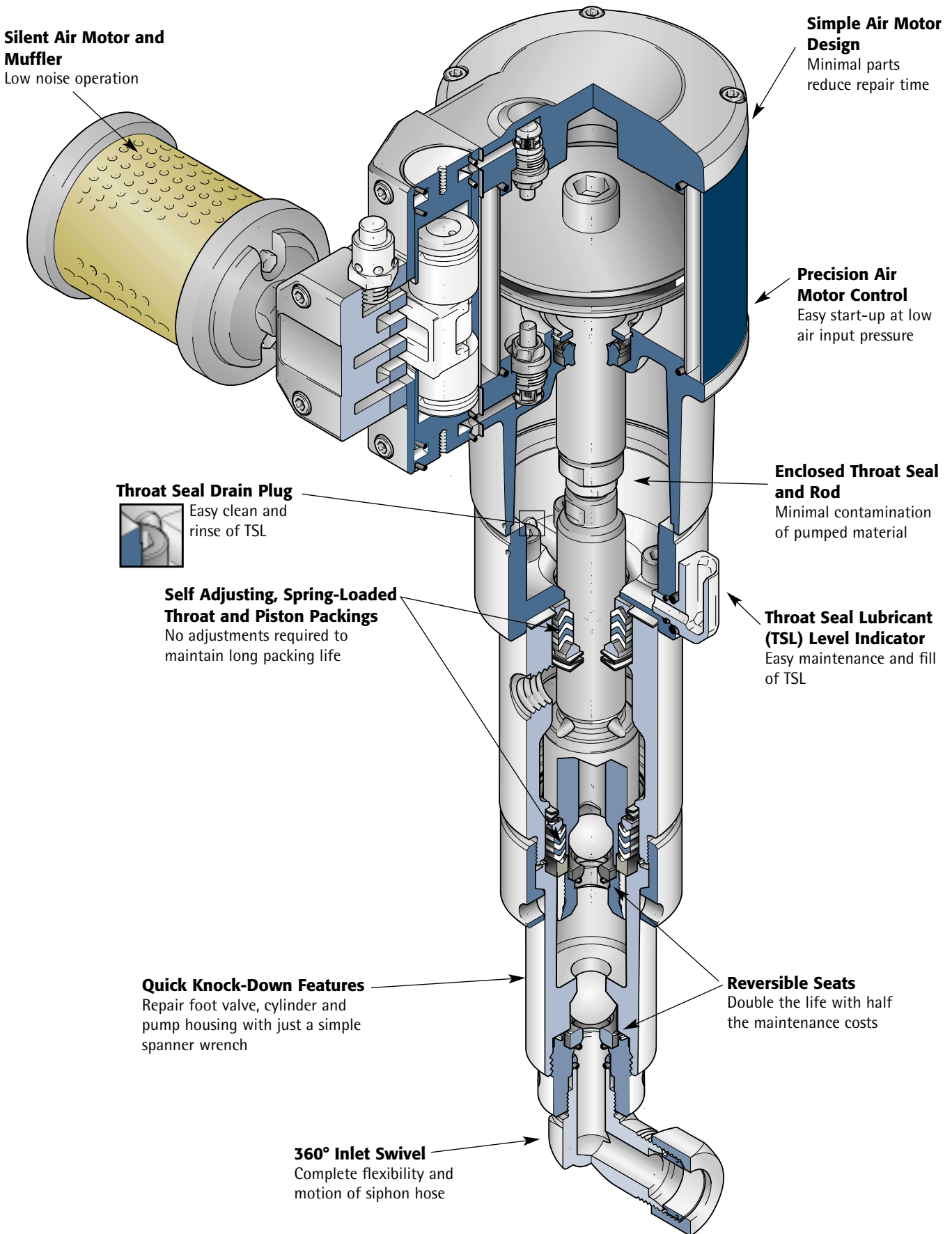


1. = MERKUR
2. = Standard Piston Pumps

Merkur pumps provide up to 50% less pressure pulsation than standard 2-ball piston pumps.

Note: Pump-to-pump comparison without fluid regulator.

Designed for Demanding Coating Applications



ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology which set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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Graco is registered to I.S. EN ISO 9001.



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MERKUR™ Product Information

Ordering Information

1. All pumps are Stainless Steel constructions.
2. Select appropriate pump model based on pressure and flow requirements.
3. Select pump configuration (bare, wall or cart mount).

For cart packages, order with siphon hose or 5 liter siphon cup.

	Stainless Steel	Part No.	Thread Design	Bare Pump	Wall Mount	Cart Mount	No. of Air Regulators	Fluid Filter	Siphon Hose	5 Liter (1.3 gal) Siphon Cup	Fluid Swivel @ Cam Inlet	Fluid Whip Hose, 2 ft (0.6 m)	Fluid Hose, 25 ft (7.6 m)	Air Hose, 25 ft (7.6 m)	Applicator
Merkur 15:1 Pumps 1.6 gpm (6.0 lpm)	+	233010	npt	*			0								-
	+	233752	BSPP	*			0								-
	+	233001	BSPP		*		0								-
	+	233096	npt		*		0								-
	+	233001	npt		*		1		*						-
	+	233006	npt		*		2	*	*	*	*	*	*	*	Alpha®
	+	233011	npt		*	*	1		*	*	*	*	*	*	Alpha
Merkur 20:1 Pumps 1.1 gpm (4.2 lpm)	+	233753	BSPP	*			0								-
	+	233002	BSPP		*		0								-
	+	233007	npt		*		0								-
	+	233003	npt		*		1		*						-
	+	233007	npt		*		2	*	*	*	*	*	*	*	Alpha Hus
	+	233012	npt		*	*	1		*	*	*	*	*	*	Alpha Hus
	+	233017	npt		*	*	2	*	*	*	*	*	*	*	Alpha Hus
Merkur 30:1 Pumps 0.6 gpm (2.4 lpm)	+	233020	npt	*			0								-
	+	233754	BSPP	*			0								-
	+	233003	BSPP		*		0								-
	+	233098	npt		*		0								-
	+	233003	npt		*		1		*						-
	+	233006	npt		*		2	*	*	*	*	*	*	*	Alpha Hus
	+	233013	npt		*	*	1		*	*	*	*	*	*	Alpha Hus
Merkur 30:1 Pumps 1.6 gpm (6.0 lpm)	+	233021	npt	*			0								-
	+	233755	BSPP	*			0								-
	+	233094	BSPP		*		0								-
	+	233099	npt		*		0								-
	+	233004	npt		*		1		*						-
	+	233006	npt		*		2	*	*	*	*	*	*	*	Alpha Hus
	+	233014	npt		*	*	1		*	*	*	*	*	*	Alpha Hus
Merkur 40:1 Pumps 1.1 gpm (4.2 lpm)	+	233019	npt		*	*	2	*	*	*	*	*	*	*	Alpha Hus
	+	233024	npt		*	*	1	*	*	*	*	*	*	*	Alpha Hus
	+	233029	npt		*	*	2	*	*	*	*	*	*	*	Alpha Hus
	+	233023	npt		*	*	1	*	*	*	*	*	*	*	Alpha Hus
	+	233028	npt		*	*	2	*	*	*	*	*	*	*	Alpha Hus
	+	233027	npt		*	*	2	*	*	*	*	*	*	*	Alpha Hus
	+	233025	npt		*	*	1	*	*	*	*	*	*	*	Alpha Hus

Notes:

BSPP is British Standard Pipe Parallel thread

npt is National Pipe Taper thread

Flow rates are reported @ 60 cpm (cycles per minute)

Accessories

- 245724 Siphon Hose and Strainer**
Fits up to 30 liter (8 gal) container
- 245737 Siphon Hose and Strainer**
Fits up to 200 liter (55 gal) container
- 233888 Pump Inlet Elbow Swivel**
Use to connect siphon hose to pump inlet.
M26(m) x 22 mm tube fittings
- 245681 Pump Inlet Adapter, Stainless Steel**
3/4 npt(m) x M26(m)
- 245717 Siphon Cup, 5 liter (1.3 gal), Stainless Steel**
For small material quantities
- 245826 Suction Tee, 2 Ball Valves**
Use to connect both siphon cup and siphon hose to Merkur pump inlet.
- 243340 Pail Cover with Agitator**
Use to agitate material in a 5 gal (18.9 l) pail
- 222121 Fluid Regulator, Stainless Steel**
Maximum working pressure: 103 bar (1500 psi, 10 MPa).
Regulator range: 10-82 bar (150-1200 psi, 1-8.2 MPa).
- 223160 Pump Outlet Fluid Filter, Stainless Steel**
60 mesh (250 micron), 350 bar (5000 psi, 35 MPa),
3/8 npt (f) inlet, 1/4 npt (f) outlet.
- 238435 Replacement Filter Screen Element**
3-pack elements, 30 mesh, SST
- 238437 Replacement Filter Screen Element**
3-pack elements, 60 mesh, SST
- 15A641 Nipple, Stainless Steel, Pump Outlet**
3/8 npt(m) x 3/8 BSPP(m)
- 245718 Air Inlet Adapter**
1/4 npt(m) x 15.5 mm diameter
- 15A724 Pump Repair Tool**
Use to disassemble lower displacement pump

Spray Guns

Merkur 15:1 packages configured with Alpha Gun (241508). All other Merkur packages configured with Alpha Plus gun (243573).

All guns include tip of choice

- 241508 Alpha Air-Assisted Spray Gun, Carbide Model**
- 241510 Alpha Air-Assisted Spray Gun, Composite Model**
- 241509 HVLP Alpha Air-Assisted Spray Gun, Carbide Model**
- 241511 HVLP Alpha Air-Assisted Spray Gun, Composite Model**
- 243573 Alpha Plus Air-Assisted Spray Gun**
- 243574 Alpha Plus Hi-Flow Air Assisted Spray Gun**
- 243575 Alpha Plus HVLP Spray Gun**
- 243576 Alpha Plus Reverse-A-Clean (RAC) Spray Gun**
- 243577 Alpha Plus Reverse-A-Clean (RAC) Hi-Flow Spray Gun**

Additional Lower Displacement Pumps

- 245639 Lower Displacement Pump**
40 cc/cycle delivery. PTFE/Leather throat packings, UHMWPE/PTFE piston packings.
- 245640 Lower Displacement Pump**
70 cc/cycle delivery. PTFE/Leather throat packings, UHMWPE/PTFE piston packings.
- 245641 Lower Displacement Pump**
100 cc/cycle delivery. PTFE/Leather throat packings, UHMWPE/PTFE piston packings.

Repair Kits

Pump part number includes motor and lower displacement pump

	Merkur 15:1	Merkur 20:1	Merkur 30:1
Pump Part No.	233818/233752	233819/233753	233820/233754
Air motor	245354	245354	245354
Lower displacement pump, SST	245352	245353	245351
Pump packing construction	UHMWPE/PTFE	UHMWPE/PTFE	UHMWPE/PTFE

Air Motor Kits

Air valve repair kit	233836	233836	233836
Air motor seal repair kit	233837	233837	233837
Air motor piston rod kit	233838	233838	233838

Lower Pump Kits

Pump Packing kit, (UHMWPE/PTFE)	233833	233830	233826
Piston ball and seat kit	233834	233831	233827
Intake ball and seat kit	233835	233832	233828
Wet cup sight glass kit	233829	233829	233829
Displacement rod, SST	15A118	15A120	15A119

	Merkur 30:1	Merkur 40:1
Pump Part No.	233821/233755	233822/233756
Air motor	245355	245355
Lower displacement pump, SST	245352	245353
Pump packing construction	UHMWPE/PTFE	UHMWPE/PTFE

Air Motor Kits

Air valve repair kit	233836	233836
Air motor seal repair kit	233842	233842
Air motor piston rod kit	233838	233838

Lower Pump Kits

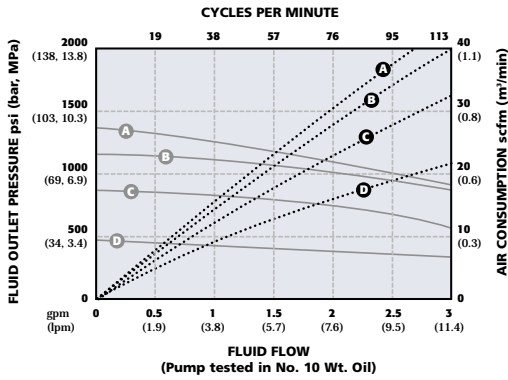
Pump Packing kit, (UHMWPE/PTFE)	233833	233830
Piston ball and seat kit	233834	233831
Intake ball and seat kit	233835	233832
Wet cup sight glass kit	233829	233829
Displacement rod, SST	15A118	15A120

Technical Specifications

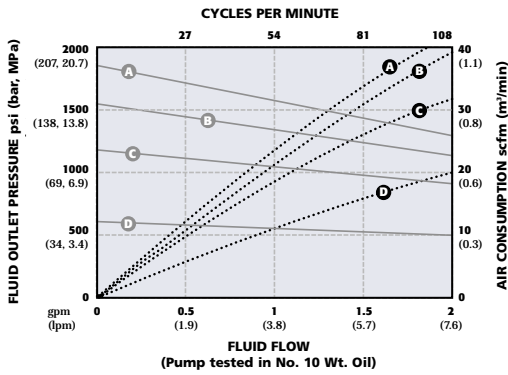
	Merkur 15:1	Merkur 20:1	Merkur 30:1
Pump ratio			
Maximum fluid outlet pressure	103 bar (10.3 MPa) 1500 psi	140 bar (14.0 MPa) 2000 psi	210 bar (21.0 MPa) 3000 psi
Maximum air input pressure	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)
Fluid Flow @ 60 cpm	1.6 gpm (6.0 lpm)	1.1 gpm (4.2 lpm)	0.6 gpm (2.4 lpm)
Volume per cycle	100 cc	70 cc	40 cc
Air consumption @ 100 psi (7 bar, 0.7 MPa) air @ 20 cpm	0.20 m ³ /min	0.20 m ³ /min	0.20 m ³ /min
Sound level @ 100 psi (7 bar, 0.7 MPa) air @ 20 cpm	73 dBA	73 dBA	73 dBA
Air Inlet, pump	3/8 BSPP(m) or 3/8 npt(m)	3/8 BSPP(m) or 3/8 npt(m)	3/8 BSPP(m) or 3/8 npt(m)
Fluid Inlet, pump	M26 x 1.5 (f) or 3/4 npt(m)	M26 x 1.5 (f) or 3/4 npt(m)	M26 x 1.5 (f) or 3/4 npt(m)
Fluid Outlet, pump	3/8 BSPP(f) or 3/8 npt(m)	3/8 BSPP(f) or 3/8 npt(m)	3/8 BSPP(f) or 3/8 npt(m)
Air inlet, package	1/4 npt(f)	1/4 npt(f)	1/4 npt(f)
Weight, Bare Pump	28 lbs (13 kg)	27 lbs (12 kg)	26 lbs (12 kg)

Performance Charts

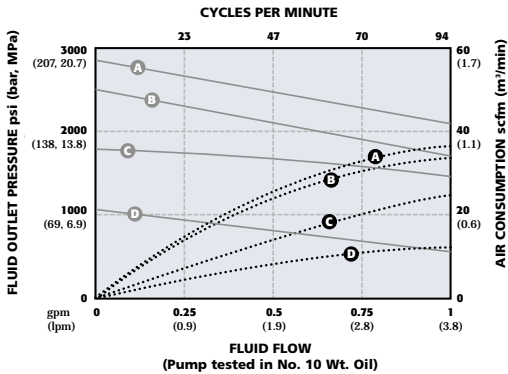
MERKUR 15:1



MERKUR 20:1



MERKUR 30:1 (0.6 gpm)



AIR PRESURES

- A - @ 7 bar (0.70 MPa, 100 psi)
- B - @ 6.2 bar (0.62 MPa, 90 psi)
- C - @ 4.8 bar (0.48 MPa, 70 psi)
- D - @ 2.8 bar (0.28 MPa, 40 psi)

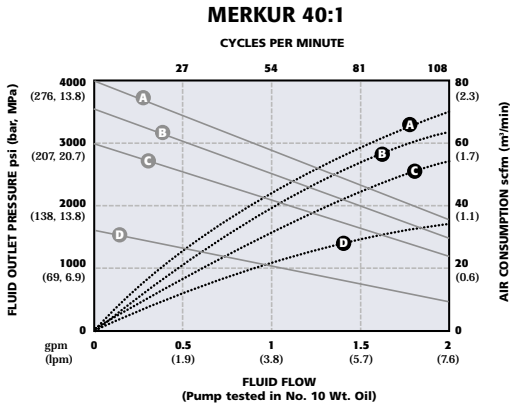
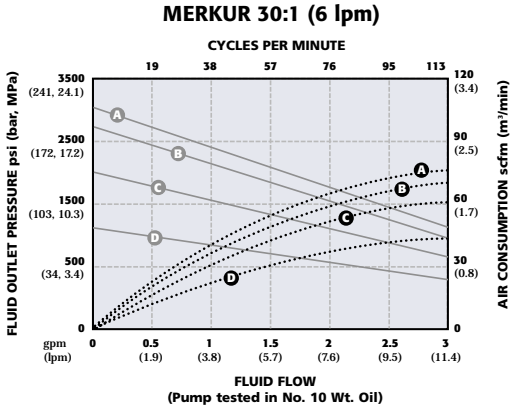
LEGEND

- Air Consumption
- Fluid Flow _____

Technical Specifications (continued)

	Merkur 30:1	Merkur 40:1
Pump ratio		
Maximum fluid outlet pressure	210 bar (21.0 MPa) 3000 psi	250 bar (25.0 MPa) 4000 psi
Maximum air input pressure	7 bar (0.7 MPa, 100 psi)	7 bar (0.7 MPa, 100 psi)
Fluid Flow @ 60 cpm	1.6 gpm (6.0 lpm)	1.1 gpm (4.2 lpm)
Volume per cycle	100 cc	70 cc
Air consumption @ 100 psi (7 bar, 0.7 MPa) air @ 20 cpm	0.45 m ³ /min	0.45 m ³ /min
Sound level @ 100 psi (7 bar, 0.7 MPa) air @ 20 cpm	76 dBA	76 dBA
Air Inlet, pump	3/8 BSPP(m) or 3/8 npt(m)	3/8 BSPP(m) or 3/8 npt(m)
Fluid Inlet, pump	M26 x 1.5 (f) or 3/4 npt(m)	M26 x 1.5 (f) or 3/4 npt(m)
Fluid Outlet, pump	3/8 BSPP(f) or 3/8 npt(m)	3/8 BSPP(f) or 3/8 npt(m)
Air inlet, package	1/4 npt(f)	1/4 npt(f)
Weight, Bare Pump	33 lbs (15 kg)	32 lbs (14 kg)

Performance Charts (continued)



AIR PRESURES

- A - @ 7 bar (0.70 MPa, 100 psi)
- B - @ 6.2 bar (0.62 MPa, 90 psi)
- C - @ 4.8 bar (0.48 MPa, 70 psi)
- D - @ 2.8 bar (0.28 MPa, 40 psi)

LEGEND

- Air Consumption
- Fluid Flow _____

Notes

