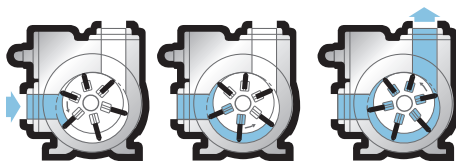
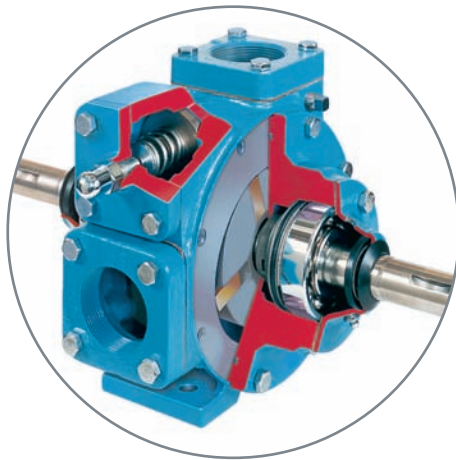




TX & TXD Series Sliding Vane Pumps



How Blackmer's sliding vane action works

Reliability

Durable pumps for fast and quiet operation. Sliding vane design provides sustained performance and trouble free operation.

Unique Features

Adjustable relief valve protects pump from excessive pressure. Optional air operated relief valve offers easy hose and nozzle handling. T-type strainers are available to protect pumping systems from damage caused by welding slag and foreign matter in the piping and tanks.

Sizing Options

Available in 1.5, 2, 2.5, 3, and 4-inch port sizes with flow rates from 10 to 500 U.S. gpm (2 to 113 m³/h) and pressures up to 125 psi (8.6 bar).

Applications

- Fuel oil delivery truck
- Fleet refueling
- Lube oil
- Aviation refuelers
- Transport of:
 - Petrochemicals
 - Gasoline
 - Biofuels
 - Solvents
 - and many more



TXD models are equipped with FKM O-rings and Blackmer mechanical seals that are compatible with all biodiesel and ethanol blends. TXD options include corrosion resistant relief valve, pneumatic relief valves and Buna or PTFE elastomers and seals.

Performance Data

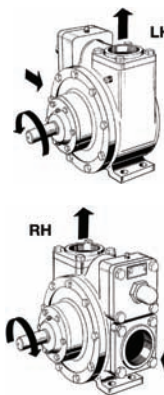
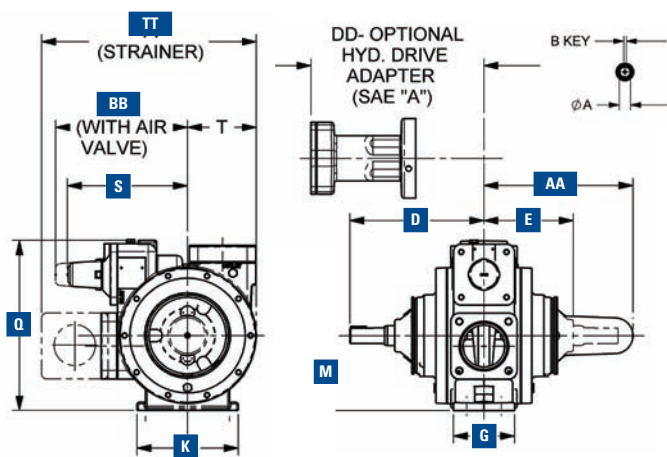
| Pump Model | TX1.5 | | | TXD2 | | TXD2.5 | | TXD3 | | TX4 | |
|-------------------|-------|-----|-----|------|-----|--------|-----|------|-----|-------|-------|
| Rated Pump Speed | 780 | 600 | 400 | 640 | 520 | 640 | 520 | 640 | 520 | 500 | 400 |
| gpm | 52 | 40 | 25 | 72 | 58 | 120 | 98 | 263 | 211 | 505 | 405 |
| L/min | 197 | 151 | 95 | 273 | 220 | 454 | 371 | 995 | 799 | 1,911 | 1,533 |
| m ³ /h | 12 | 9 | 6 | 16 | 13 | 27 | 22 | 60 | 48 | 115 | 92 |
| hp | 2.4 | 1.9 | 1.3 | 3.0 | 2.5 | 5.0 | 3.8 | 11.1 | 8.6 | 18.2 | 15 |
| kW | 1.8 | 1.4 | 1.0 | 2.2 | 1.9 | 3.7 | 2.8 | 8.3 | 6.4 | 13.6 | 11.2 |

* Appropriate capacities and horsepower (hp) are based on a 100 ssu (22 cP) fluid at 50 psi (3.4 bar) delivered pressure. Refer to Characteristic Curves for flow rates and torque requirements at other pressures and viscosities.

Maximum Operating Limits

| Pump Model | Nominal Flow rate | | Pump Speed | Viscosity | | Differential Pressure | | Working Pressure | | Temperature | |
|------------|-------------------|-------|------------|-----------|-------|-----------------------|-----|------------------|------|-------------|-----|
| | gpm | L/min | | rpm | ssu | cP | psi | bar | psi | bar | °F |
| TX1.5 | 56 | 212 | 780 | 20,000 | 4,250 | 125 | 8.6 | 175 | 12.1 | 300 | 149 |
| TXD2 | 87 | 329 | 780 | 20,000 | 4,250 | 125 | 8.6 | 175 | 12.1 | 300 | 149 |
| TXD2.5 | 157 | 594 | 780 | 20,000 | 4,250 | 125 | 8.6 | 175 | 12.1 | 300 | 149 |
| TXD3 | 270 | 1,022 | 640 | 20,000 | 4,250 | 125 | 8.6 | 175 | 12.1 | 300 | 149 |
| TX4 | 505 | 1,911 | 500 | 20,000 | 4,250 | 125 | 8.6 | 175 | 12.1 | 240 | 116 |

Dimensions



Pump Rotation

Blackmer TXD models are equipped with a double-ended drive shaft for either clockwise (RH) or counterclockwise (LH) rotation. Standard rotation for the TX1.5 is counterclockwise (LH) when viewed from the drive shaft. Standard rotation for the TX4 model is clockwise (RH).

Options

- Buna or PTFE O-rings
- Pneumatic relief valve
- Hydraulic Motor Adapters
- Strainers

| Model | | A | B | D | E | G | K | M | Q | S | T | AA | BB | DD | TT | Approx. Weight | |
|--------|-----|-------------------------------|-------------------------------|---------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---|---------------------------------|---------------------------------|---------|
| TX1.5 | in. | 1 ¹ / ₈ | 1 ¹ / ₄ | 7 ¹³ / ₁₆ | 5 ¹ / ₁₆ | 3 ¹ / ₈ | 6 ¹ / ₂ | 4 | 8 ¹ / ₂ | 7 | 3 ⁷ / ₁₆ | – | – | 10 ³ / ₈ | – | 61 lbs. | |
| | mm | – | – | 198 | 129 | 79 | 165 | 102 | 216 | 178 | 90 | – | – | 264 | – | 28 kg | |
| | | | | | | | | | | | | | | 1 ¹ / ₄ " HYD Motor Shaft | 1" HYD Motor Shaft | | |
| TXD2 | in. | 1 ¹ / ₈ | 1 ¹ / ₄ | 8 | 5 ¹ / ₄ | 3 ¹ / ₂ | 6 ¹ / ₂ | 4 | 8 ¹¹ / ₁₆ | 6 ¹ / ₈ | 3 ⁷ / ₈ | 8 ³ / ₄ | 8 ⁵ / ₁₆ | 10 ⁷ / ₈ | 10 ⁹ / ₁₆ | 12 ¹ / ₈ | 70 lbs. |
| | mm | – | – | 203 | 133 | 89 | 165 | 102 | 221 | 156 | 98 | 222 | 211 | 276 | 268 | 308 | 32 kg |
| TXD2.5 | in. | 1 ¹ / ₈ | 1 ¹ / ₄ | 8 ³ / ₄ | 6 | 4 ⁷ / ₈ | 7 | 4 | 9 ⁵ / ₈ | 6 ¹³ / ₁₆ | 3 ¹⁵ / ₁₆ | 9 ¹ / ₂ | 8 ¹¹ / ₁₆ | 11 ⁵ / ₈ | 11 ⁵ / ₁₆ | 13 ³ / ₁₆ | 94 lbs. |
| | mm | – | – | 222 | 152 | 124 | 178 | 102 | 244 | 173 | 100 | 241 | 221 | 295 | 287 | 338 | 43 kg |
| TXD3 | in. | 1 ¹ / ₈ | 1 ¹ / ₄ | 9 ⁵ / ₈ | 6 ⁷ / ₁₆ | 4 ³ / ₈ | 7 ¹ / ₄ | 5 ³ / ₈ | 12 ¹³ / ₁₆ | 8 ⁹ / ₁₆ | 4 ¹⁵ / ₁₆ | 10 ¹¹ / ₁₆ | 9 ⁷ / ₁₆ | 12 ³ / ₈ | 15 ³ / ₈ | 152 lbs. | |
| | mm | – | – | 244 | 164 | 111 | 184 | 137 | 325 | 217 | 125 | 271 | 240 | 314 | 391 | 69 kg | |
| TX4 | in. | 1 ¹ / ₂ | 3 ³ / ₈ | 11 | 8 ³ / ₄ | 7 | 9 ¹ / ₂ | 6 ³ / ₈ | 15 ¹ / ₂ | 8 ¹ / ₂ | 6 ³ / ₈ | – | – | – | – | 295 lbs. | |
| | mm | – | – | 279 | 210 | 178 | 241 | 162 | 394 | 217 | 162 | – | – | – | – | 134 kg | |



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