

# HPXS25

## 1" Side Port Air-Operated Double Diaphragm Pump

Product datasheet · DS-HPXS25 · Rev A · July 2026



Side suction and discharge put the HPXS25 straight into an in-line piping run — no elbows, cleaner skids, drop-in replacement for in-line pump types. Shares wetted internals and air section with the center-port HPX25; the manifold arrangement (flange standard, orientation, port hand) is engineered per order.

1" side ports

150 L/min

8.4 bar

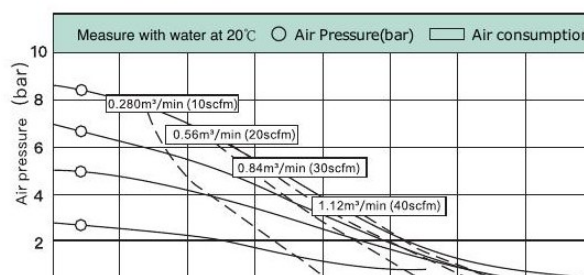
3.2 mm solids

Generation B

### Technical parameters

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Pump type                      | Air-operated double diaphragm (AODD), side-ported    |
| Suction / discharge connection | 1" — side (in-line) arrangement, configured to order |
| Maximum free flow              | 150 L/min (40 US gpm)                                |
| Maximum working / air pressure | 8.4 bar (122 psi)                                    |
| Air pressure range             | 1.4 – 8.4 bar                                        |
| Maximum air consumption        | 1.5 m <sup>3</sup> /min                              |
| Maximum solids handling        | 3.2 mm                                               |
| Air inlet · air exhaust        | 1/2" · 3/4"                                          |
| Self-priming                   | Yes — dry-run safe, deadhead-safe                    |
| Weight                         | On request (varies by construction)                  |

### Performance Curves

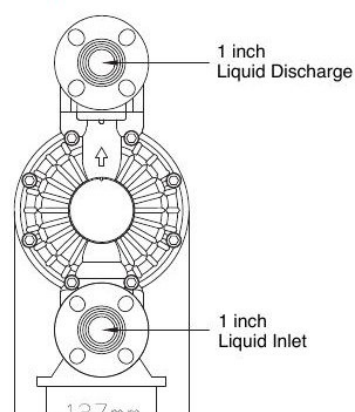
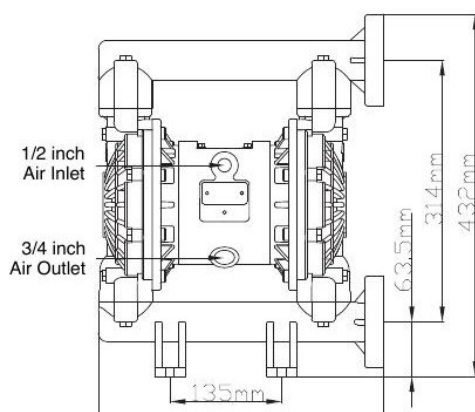


Manufacturer performance curves, measured with water at 20 °C on the center-port configuration; side-port performance is equivalent at the pump duty point. Boxed values = air consumption at the marked duty points.

### Materials of construction

|            |                                                                                      |
|------------|--------------------------------------------------------------------------------------|
| Body       | PP · PVDF (KV) · Aluminium (AL) · Cast iron (AC, to order) · SS304 (SS) · SS316 (LL) |
| Valve seat | PP · KV · Santoprene (ST) · AL · SS · LL                                             |
| Valve ball | PTFE (TF) · ST · Buna-N (BN) · SS · LL                                               |
| Diaphragm  | PTFE (TF) · ST · FKM/Viton® (VT) · BN · Polyurethane (PU)                            |

## Installation Dimension Drawing



Base-platform reference dimensions (mm) – center-port trim, plastic construction shown. HPXS side-port manifold arrangement, connection positions and certified installation dimensions are issued on the order GA drawing.

| Wetted material     | Min.            | Max.            |
|---------------------|-----------------|-----------------|
| Polypropylene (PP)  | +4 °C (+40 °F)  | 65 °C (150 °F)  |
| PVDF (KV)           | +4 °C (+40 °F)  | 93 °C (200 °F)  |
| PTFE diaphragm (TF) | +4 °C (+40 °F)  | 107 °C (225 °F) |
| Santoprene (ST)     | -40 °C (-40 °F) | 107 °C (225 °F) |
| FKM / Viton® (VT)   | -40 °C (-40 °F) | 177 °C (350 °F) |
| Buna-N (BN)         | -40 °C (-40 °F) | 121 °C (250 °F) |
| Polyurethane (PU)   | -40 °C (-40 °F) | 93 °C (200 °F)  |

Limits are mechanical-stress based; chemical compatibility can reduce them. The most restrictive wetted component governs the pump.

## MODEL CODE

**HPXS 25 PP – PP / TF / TF**

series · size · body - seat / ball / diaphragm (flow-path order).  
Example above: PP body, PP seats, PTFE balls, PTFE diaphragms.

**How to order.** Model code + side-port arrangement (flange standard, orientation, port hand) + duty point (fluid, viscosity, solids, temperature, suction condition, flow and head).

**Spares.** Wet-end and air-valve kits are generation-specific – always quote the nameplate generation letter (this model: Generation B).

Specifications subject to change without notice. Performance data typical for water at 20 °C. © 2026 HydraPumps · info@hydrapumps.com