



TECHNO-COMMERCIAL PROPOSAL

Pneumatic Knife Edge Gate Valve DN150 (6") — Sludge Tank Automation

1. COVER LETTER

Dear Mr. Piyush Mittal,

Thank you for your enquiry dated 28 May 2026 for actuated valves for sludge processing tank automation.

After review of your application — solid-laden sludge, flameproof area requirement, and PLC integration — Supreme Valves India recommends and quotes a **pneumatically actuated knife edge gate valve DN150 (6")** with SS304 body and blade, double-acting pneumatic cylinder, flameproof solenoid valve (Ex d IIC T6 / IP66), and mechanical limit switches for open/close feedback. This configuration is PLC-compatible and better suited to sludge duty than electric multi-turn actuation.

We look forward to your confirmed purchase order.

2. CUSTOMER & PROJECT DETAILS

Quotation Reference	SV/QTN/2026/ARH/001
Quotation Date	05 June 2026
Customer	Arham Oil & Gas Product Services
Contact Person	Piyush Mittal
Email	arhamoil.rnd@gmail.com
Phone	+91 7486058380
Address	Ahmedabad, Gujarat, India
Project / Location	Sludge processing tank automation — Ahmedabad
Application	Tank bottom outlet isolation — solid-laden sludge media
RFQ Subject	Inquiry about Electrically actuated Valves
RFQ Date	28 May 2026

3. SCOPE OF SUPPLY

Sr	Description	Size	Qty	Unit Price (INR)	Total (INR)
1	Pneumatic Knife Edge Gate Valve — Flameproof Package Knife edge gate valve, lug type, uni-directional, DN150 (6"), ANSI Class 150#. Body CF8 / AISI 304; blade AISI 304 ground and polished. Double-acting pneumatic cylinder (ISO 5211), 5/2-way solenoid valve 24 VDC in flameproof enclosure Ex d IIC T6 IP66, mechanical limit switches (open/close) in Ex d enclosure, air filter-regulator-lubricator, speed controllers, junction box with cable glands. Suitable for sludge with solid particles. PLC-compatible dry-contact feedback. Manual override handwheel.	DN150 (6")	01	36,000/-	36,000/-

Specs: SS304 Pneumatic Ex d solenoid + limits PLC feedback Sludge duty				
Subtotal				36,000/-
GST 18%				6,480/-
Grand Total				42,480/-

Amount in Words: Forty Two Thousand Four Hundred and Eighty Rupees Only

4. TECHNICAL SPECIFICATIONS

Item 1 — Valve & Actuation

Parameter	Specification
Valve Type	Pneumatically actuated knife edge gate valve, lug type
Nominal Size	DN150 (6")
Pressure Rating	ANSI Class 150# / 10 bar
Body / Blade	CF8 / AISI 304 body; AISI 304 blade
Seat	Resilient PTFE/EPDM or metal-to-metal — sludge duty
Flow Direction	Uni-directional — tank bottom outlet
Actuator	Double-acting pneumatic cylinder, ISO 5211
Solenoid Valve	5/2-way, 24 VDC, Ex d IIC T6, IP66
Limit Switches	Mechanical SPDT open/close, Ex d enclosure
Air Supply	5–7 bar dry filtered air; FRL unit included
PLC Interface	24 VDC solenoid command; dry contact position feedback
Testing	API 598 / MSS-SP81 hydrostatic + actuator function test

5. ENGINEERING NOTES

Pneumatic actuation recommended over electric multi-turn for sludge/solid particle service. Flameproof certification applies to solenoid and limit switch enclosures; pneumatic cylinder is intrinsically safe.

Technical basis: This offer is prepared strictly per your inquiry specifications. Dimensions, materials, and ratings in this proposal follow your RFQ requirements.

Internal catalogue cross-reference: Prime / KNIFE EDGE GATE VALVE PRESSURE RATING : 150# / PIV-KGTV-01 / 6" (for engineering verification only).

6. COMMERCIAL TERMS & CONDITIONS

HSN Code	8481.80.30
Price Basis	Ex-Works Ahmedabad, India. Standard packing included.
GST	18% GST extra (CGST + SGST for Gujarat supply).
Delivery Time	4 to 5 weeks from confirmed PO and advance.
Packaging and Forwarding	2% Extra
Payment Terms	50% advance with PO; balance 50% before dispatch.
Offer Validity	30 days from quotation date
Compressed Air	Customer to provide plant air 5–7 bar at valve location.

7. DOCUMENTATION

- Hydrostatic test certificate
- Actuator function test report
- Ex certificate copies for solenoid and limit switches
- GA drawing and IOM manual

8. WARRANTY

12 months from date of dispatch against manufacturing defects.

Yours faithfully,



Zahid Ranginwala
Director, Supreme Valves India
Ahmedabad



Gate Valve



Diaphragm Valve



Globe Valve



Check Valve



Needle Valve



Plug Valve



Butterfly Valve



Piston Valve



Relief Valve



Ball Valve