



TECHNICAL SPECIFICATIONS
TE 008.3 Material Specifications

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RF VALVE® and aiRFlex® Part	Material	Min. Standard
VALVE BODY	Cast Iron Ductile Iron Cast Aluminum Stainless Steel Welded Carbon Steel	ASTM A48-83 Cl.40B, DIN GG25 ASTM 65-45-12 AISI10Mg-F ASTM: AISI 316 ASTM A537 Cl. 1
PINCH BARS	Steel	ASTM A572 (50)
PULL BARS	Stainless Steel	AISI 316
SEALING STRIP, body	Polytetrafluori-ethene (PTFE)	
PLASTIC BUSHINGS	Polyacetal (POM) or acid proof PP	
MANUAL ACTUATOR	Steel Cast Iron Stainless Steel	ASTM A537 Cl. 1 ASTM A48-83 Class 40B AISI 316
STEM SCREW manual & electric actuator	Steel or Stainless Steel	ASTM A537 Cl. 1 AISI 329
STEM TUBE manual actuator - pipe - nut	Stainless Steel Steel	AISI 316 ASTM A 307
HANDWHEEL	Painted Steel	ASTM A 572 (50)
PNEUMATIC ACTUATOR - Double Acting - Optional; fail close spring	Aluminum or Fiberglass w/ SS tie rods & shaft [optional steel spring]	Per manufacturer specifications; tie rods & shaft AISI 316
ATTACHMENT PLATE - Actuators FASTENERS - bolts, nuts, washers	Painted Steel or SS Stainless Steel	ASTM A 572 (50) or AISI304 AISI 304 / ASTM A 307
Elastomer Tube – available in a wide range of elastomers & qualities	NR, PGR IIR, NBR, N, FPM, CSM, EPDM – per guidelines set forth in “Elastomer Qualities Selection” guide	
PAINT	Powder Coating ⁽¹⁾ , Epoxy	Powder Coating, U.S. std.
⁽¹⁾ Powder coating involves a four step process incorporating a pre-treatment stage (i) oven heat stripping, abrasive blasting (except for aluminum valve bodies), chemical cleaning and rinsing, (ii) a chemical rust inhibiting sealer and rinse stage, (iii) application of a 3.5 mil zinc rich epoxy powder coat primer (iv) an electrostatic spray process applying a 3 – 4 mil thick polyester powder coating (TGIC) that is then oven heat treated and cured. The TGIC powder coating applied is specifically formulated to withstand harsh industrial and municipal environments, including resistance to most chemicals, extended outdoor exposure, and provide improved impact resistance.		