

GARLOCK PTFE Lined Butterfly Valves

Corrosive and abrasive media

Service life and safety under severe operating conditions are important arguments for Garlock valves world wide. Chemical, petrochemical, process industry and many other branches are permanent customers.

They know: high quality valves have a good return on investment. The economical advantages with reduced maintenance, troublefree operation and superior service life are convincing.

Garlock valves define standards. The antistatic liner SAFETY-SEAL, valves tested according to "TA-Luft", MOBILE-SEAL valves for transport industry – some examples for successful Garlock valve and the applications.

Upper and lower PTFE non lubricated DU® bearings support stem loads and limit shaft deflection.

Single piece valve stem made from 17-4ph stainless steel to withstand shearing.

SResilient 360° silicone or Viton® elastomer back-up ring is dynamically loaded to ensure precise, uniform loading of the liner/disc and seal assemblies, providing up to 50% reduction in operating torque and leak free operation.

Stainless or ductile iron disc insert overmolded with PTFE.

PTFE molded by proprietary Garlock manufacturing process assures high crystallinity, which results in increased permeation resistance. Minimum PTFE thickness of .125" (>3mm)..

Rugged 2 piece field repairable ductile or stainless body.

Fluoroelastomer o-ring for environmental seal

Anti blowout shaft retention screw

Simple and effective shaft seal has shown, through independent testing, less than 1.5 ppmv leakage after 10,000 operating cycles and severe thermal cycling.

Geometric and dimensional profile provide reduced interference between disc and liner, resulting in lowered operating torques.



Gylon® full face gaskets eliminate any potential for ingress of atmospheric contaminants. Eliminates potential leak path of line media.



Patented 3-seal Garlock stem seal assembly combines compression, labyrinth, rotary seal concepts into one seal approach. Viton® O-rings and back-up ring supply dynamic live loading.

