QUARTER TURN VALVES

QF Series

METAL SEATED BUTTERFLY VALVES

Strahman

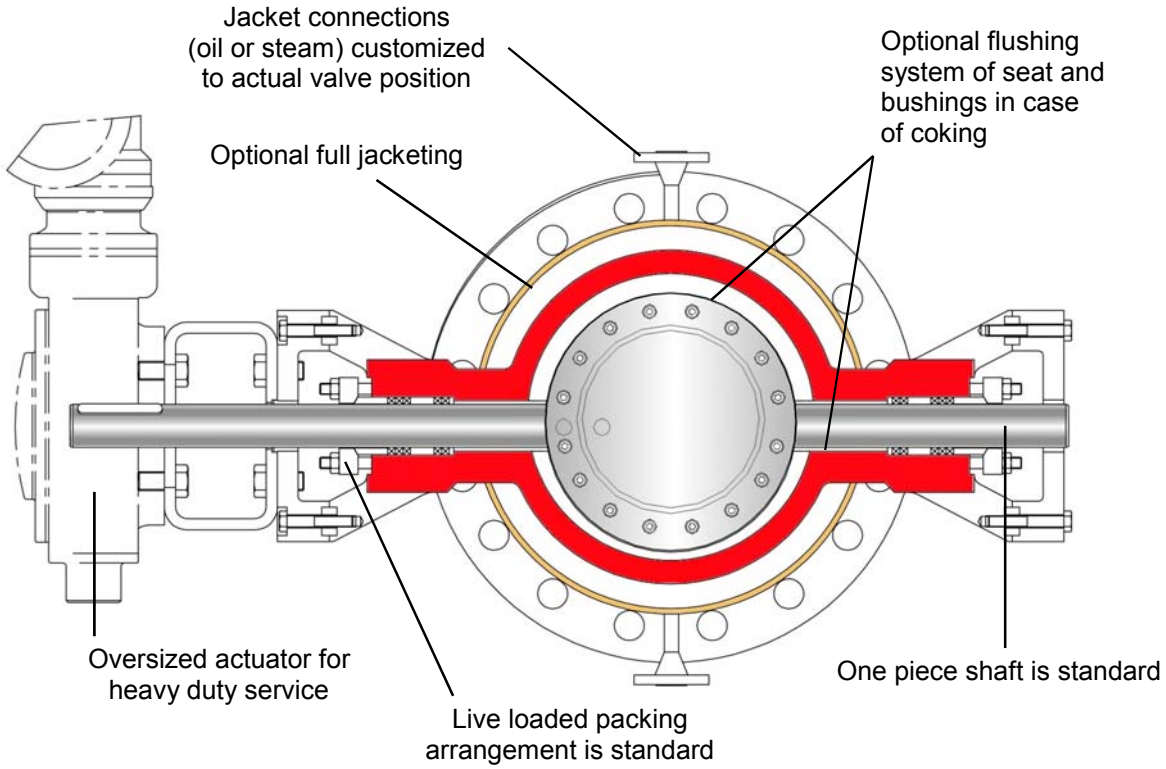
PROCESS VALVES

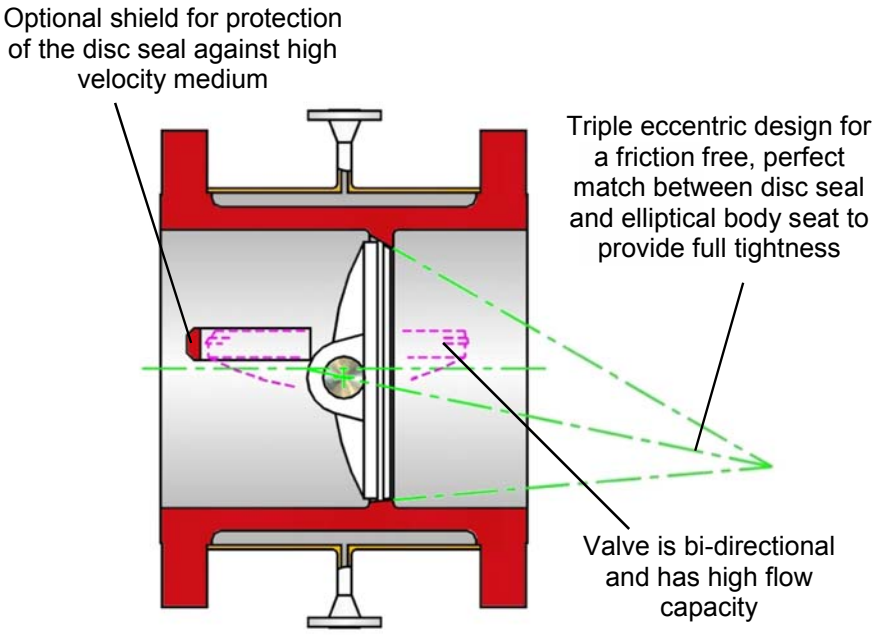
HIGH PERFORMANCE BUTTERFLY VALVES

Triple Eccentric Butterfly Valve

Code: **QFTM**

Fire safe tested– API 6FA





Flanged Type **Fig. 630**

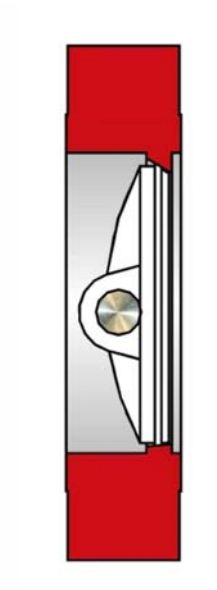


Fig. 635 **Wafer Type**

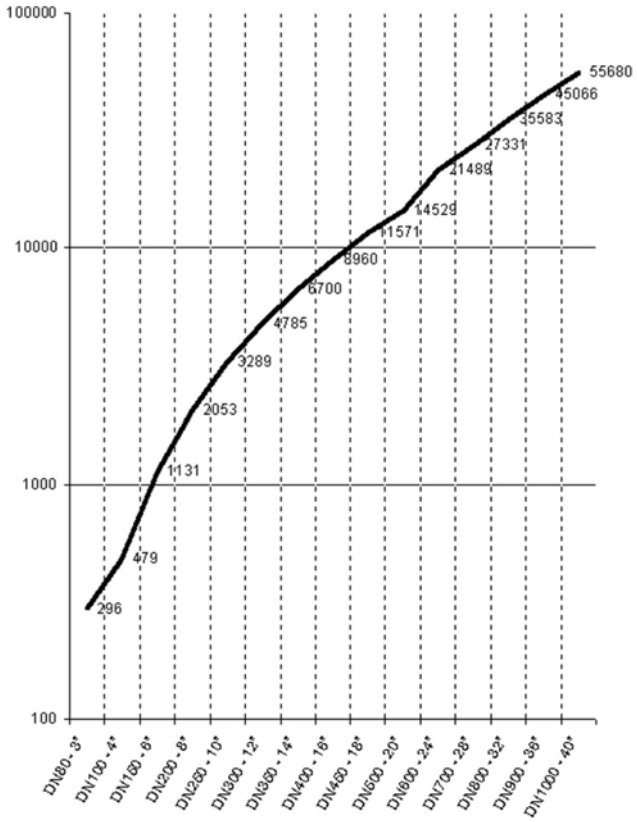
Strahman Valves designs and manufactures metal seated high performance Butterfly Valves. Their main application is isolation of process lines in refinery and petrochemical plants. These valves must provide absolute tight shut-off and must be reliable because of safety of the production unit depends on these “key-equipment” valves.

Applications include: block valves in ethylene transfer lines to isolate the heater, block valves for ethylene de-coking lines or as isolation valves in cryogenic conditions such as LNG units.

Typical Graphite / 316 Lamellar Seal

Flanged body arrangement

Typical CV values

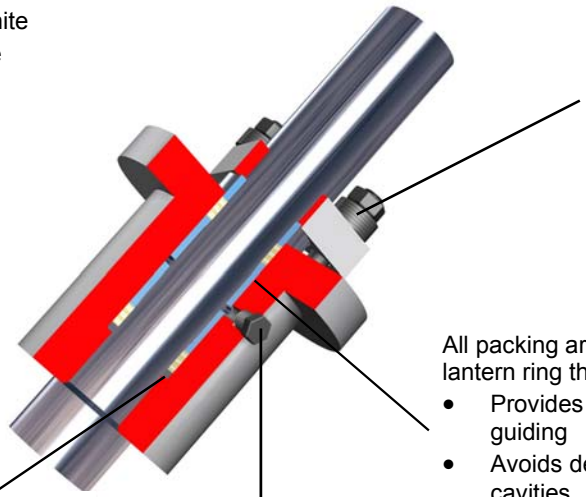


Wafer type body arrangement

PACKING DEFINITION

Typical Packing Materials:

- PTFE
- PTFE / Aramide Braid
- Carbon / Graphite Braid
- Graphite Braid
- PTFE / Aramide Braid + Graphite
- Lamellar + Expanded Graphite
- Pure Graphite



Live loaded packing arrangement minimizes maintenance

All packing arrangements use a lantern ring that:

- Provides better stem piston guiding
- Avoids dead space in body cavities

Bottom ring material is selected with a differential hardness from the piston to prevent piston damage

Optional 1/4 inch NPTF can be used for leak detection or inert gas injection to avoid leakage to atmosphere by creating an over pressure

Valve Coding System

Q	F	T	M	F	J

Q Quarter Turn Valves

B Ball
F Butterfly
A Accessories

C Cartridge (Ball)
T Triple eccentric (Butterfly)
$ Special

S Soft Seated
M Metal to Metal

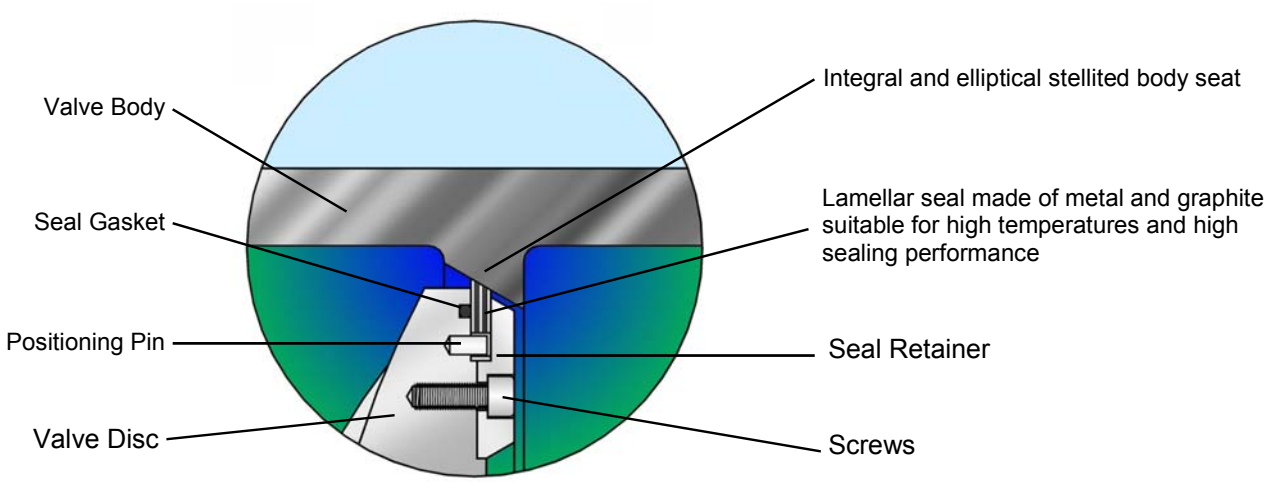
F Flanged
W Butt Weld
A Wafer
S Stud Ends
O Oversized Flange
G Graylock
$ Special

J Jacketed

NOTE: Some combinations may not be compatible

SEALING SYSTEMS

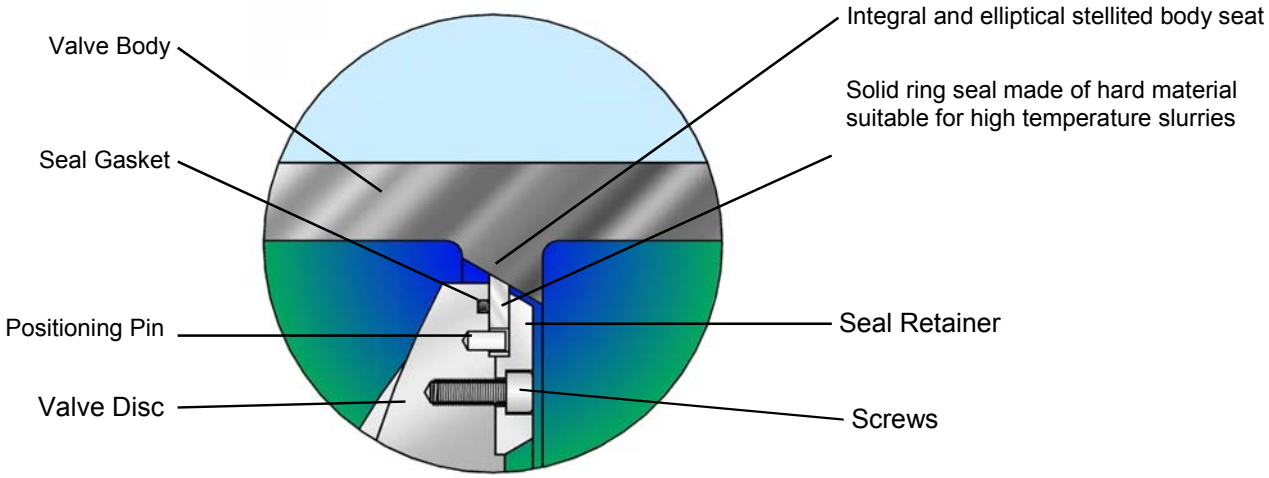
Lamellar Seal



Temperature
Minimum: -200° C / -330° F
Maximum: 550° C / 1000° F

Pressure (Differential)
Maximum: 100 bar / 1450 psig

Solid Seal



Temperature
Minimum: -50° C / -60° F
Maximum: 650° C / 1200° F

Pressure (Differential)
Maximum: 100 bar / 1450 psig

RANGE DEFINITION

QF Manufacturing Range	PN 10	PN 16	PN 20– 150 lbs.	PN 25	PN 40	PN 50 300 lbs.	PN64 400 lbs.	PN 100 600 lbs.	PN 150/160-900 lb	PN 250 -1500 lb	PN 320	PN 420—2500 lb	PN 630 –4500 lb
3/8”- DIN10													
1/2”- DIN15													
3/4”- DIN20													
1”- DIN25													
1 1/4”- DIN32													
1 1/2”- DIN40													
2”- DIN50													
2 1/2”- DIN65													
3”- DIN80													
4”- DIN100													
5”- DIN125													
6”- DIN150													
8”- DIN200													
10”- DIN250													
12”- DIN300													
14”- DIN350													
16”- DIN400													
18”- DIN450													
20”- DIN500													
24”- DIN600													
28’ - DIN700													
32” - DN800													
36” - DN900													
40” - DN1000													
44” -DN1100													
48” - DN1200													

Limited differential Pressure

TECHNICAL & GENERAL INFORMATION

Design Code & Construction

- Design standard compliant with ASME B16.34
- International standards include ANSI, DIN, JIS, API etc.
- Wide range of material selections including carbon steel / stainless steel / Titanium / Hastelloy / Duplex / Monel / Tantalum / Zirconium
- Fabricated, cast, forged and bar stock designs
- Combinations of fabricated, sand and investment casings, and bar stock available

Surface Finish

- For polymer applications, Strahman recommends a surface facing of 300 (Ra 0.4) for all parts are in contact with the medium

Quality assurance & testing

- ISO 9001 compliant
- PED / ATEX / CE marking
- TUV / HPO / TA Luft
- Standard testing procedures

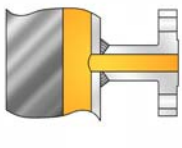
LINE & BRANCH CONNECTIONS

Flanges
ANSI, DIN, JIS

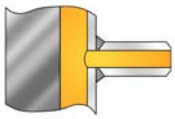
Studded
Ends

Butt
Weld

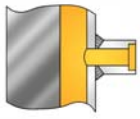
JACKET CONNECTIONS



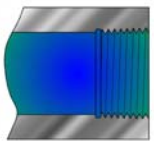
Flanges
ANSI,DIN,JIS



Butt Weld



Socket Weld



Threaded
Connections
(NPT & ANSI)

ACTUATION OPTIONS

Handle Lever

Bevel or Worm Gear

Electric Actuator

Double or single acting Air Cylinder

Hydraulic Cylinder

The Strahman family of products include:

SAMPLING VALVES

Strahman has a full line of sampling valves that produce live samples without exception. Our sampling valves unique design prevent failure caused by sediment or clogging.

DRAIN VALVES

Strahman Drain Valves are designed to prevent clogging. They are ideal for use in liquid and gas service or with slurries, polymers, and high viscosity fluids that tend to solidify at room temperature.

WASH DOWN EQUIPMENT

Strahman offers a full line of mixing units, hose stations, hoses, nozzles and wash down accessories. Our wash down line is designed for industrial use and is used in a wide variety of industries including food, beverage, pharmaceutical, chemical and other applications.

LINE BLINDS

Strahman Line Blinds provide zero leakage down stream and total isolation on process pipelines, vessels, and maritime applications. No pipeline movement is required when blind position is changed.

Please contact your local Strahman representative for further details
or
visit our website : www.strahmanvalves.com

Strahman VALVES, INC.

Established 1921

Corporate Headquarters:
Strahman Valves, Inc. 2801 Baglyos Circle, Bethlehem, PA 18020
Tel: 484. 893.5080 • Fax: 484.893.5099

Strahman France:
Savoie Hexapole, F-73420, Mery, France
Tel: + 33 4 79 35 78 00 • Fax: + 33 4 79 35 78 20

Strahman German Office
Zum Schwarzhof 14, 77704, Oberkirch, Germany
Tel: +49 (0) 7802 7037879 • Fax: +49 (0) 7802 7037889

ISO 9001 Certified

Last Updated: August 25, 2009