



# PLASTIC LINED VALVES & ACCESSORIES



ENGINEERED EXCELLENCE

[www.kdvflow.com](http://www.kdvflow.com)

# PLASTIC LINED VALVES & ACCESSORIES



## Plastic Lined Diaphragm Valves

### Weir Type



DN15-DN150

KDVs Plastic Lined Weir Type Diaphragm Valves can be specified to suit the most demanding service applications.

A wide selection of body, bonnet, handwheel and diaphragm materials - and external coatings - provide reliable service with corrosive media and protection for the valve in the harshest environmental conditions.

### Operator Options

- Rising Handwheel
- Non-Rising Handwheel
- Pneumatic/Electric Actuation

### Diaphragms

- 1 Piece Reinforced elastomer
- 2 Piece Elastomer/PTFE
- 3 Piece TFM/PVDF/ Elastomer

### Face To Face Standards

- EN558-1 Series 7(BS5156)
- EN558-1 Series 1(DIN3202-F1)
- MSS SP88-1993-(R-01)

### Flange Drilling Standards

- ANSI B16.5 Class#125 & 150
- EN1092 PN10/16 (BS4504)
- AS2129-2000 Table D/E (BS10 1962)
- JIS B2220

### Design Standard

- EN13397-2001(BS5156:1985)
- MSS SP-88 (1993-(R01)

### Testing Standard

- EN12266-2 2002 (BS6755 Part 1)

### Straight Through Type



DN25-DN100

### Materials Of Construction

PART	MATERIAL
Body	Cast Iron, Ductile Iron, WCB, Stainless Steel
Lining	PFA, PVDF, ETFE, PP
Bonnet Shell	Cast Iron, Cast Ductile Iron
Hand Wheel	Cast Iron, Cast Ductile Iron, Stainless Steel*
Spindle	SS304, SS316
Compressor	Cast Iron, Cast Ductile Iron, Stainless Steel
Fasteners	ISO Grade 8.8, Stainless Steel

\*Not available on all sizes

## Plastic Lined Butterfly Diaphragm Valves

### Lever



DN40-DN200

KDVs 2 piece, full bore 80 Series valve is designed to provide trouble free, safe service.

Internal features include 3mm(+) lining, virgin PTFE seat seals for tight shut off, chevron cap and cone stem packing for stem sealing integrity and a dovetail groove to lock the lining in place.

### Operator Options

- Lever
- Gearbox
- Rack & Pinion Actuator

### Face To Face Standards

- ASME B16.10

### Design Standard

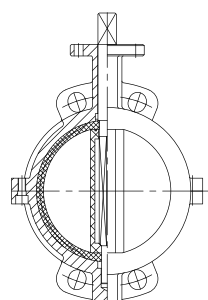
- HG/T3704

### Testing Standard

- API 598

### Materials Of Construction

PART	MATERIAL
Body	A216 WCB
Disc	A351 CF8+PFA
Stem	A276 SS420
Seat	PTFE
Pad	Silicone Rubber
Bushing	Viton, Silicone Rubber, PTFE



### Gearbox



DN40-DN400

# PLASTIC LINED VALVES & ACCESSORIES



## Plastic Lined Ball & Plug Valves

### Ball Valve



DN15-DN200

Our Plastic Lined Ball Valve range features a split body for ease of maintenance, integral ball and stem, PTFE seat seals and a dovetail lining lock.

As with our entire plastic lined range, these valves are not affected by mechanical or thermal shock and provide excellent performance over a wide temperature curve.

### Materials Of Construction

PART	BALL VALVE	PLUG VALVE
Body	A216 WCB+PFA	A216 WCB+PFA
Ball/Plug	A351 CF8+PFA	A351 CF8+PFA
Yoke	A216 WCB	SS304
Fasteners	SS304	SS304

### Plug Valve



DN15-DN350

### Operator Options

- Lever
- Gearbox
- Rack & Pinion Actuator

### Flange Drilling Standards

- ANSI B16.5 Class 125 & 150
- EN1092 (PN10/16) (BS4504)
- JIS B2220

### Face to Face

- ASME B16.10

### Design Standard

- API 6D
- HG/T3704

### Testing Standard

- API 598

## Plastic Lined Check Valves

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### Swing Check



DN50-DN400

Designed for durable, high cycle performance, these valves are extremely robust and can be installed horizontally or vertically.

All wetted parts offer excellent corrosion resistance, ensuring reliable operation and long service life in severe process conditions.

### Features & Benefits

- Suitable for pipework in severe process conditions
- Robust design
- Durable, high cycle performance
- Horizontal or vertical installation

### Spring Options (flanged/Wafer)

- PTFE Encapsulated
- Alternative materials
- Removed (floating poppet)
- Alternative pressure rated

### Poppet Check - Flanged



DN15-DN100

### Materials Of Construction

PART	SWING CHECK	POPPET FLANGED	POPPET WAFER
Body	A216 WCB+PFA	A216 WCB+PFA	A216 WCB+PFA
Disc	A351 CF8+PFA	-	-
Poppet	-	PTFE	PTFE
Spring	-	Hastelloy C276	Hastelloy C276

### Pressure

- To suit ASME150 piping systems

### Poppet Check - Wafer



DN15-DN100



# PLASTIC LINED VALVES & ACCESSORIES

## Plastic Lined Valves - Actuators & Control Accessories

### Linear Actuators



KDV offers a range of linear and 1/4 turn actuators that can be fitted with control accessories to interface with sophisticated process plant systems.

Our diaphragm operated actuators can be operated pneumatically and hydraulically and are available in a range of configurations including Double Acting, Fail Open and Fail Close.

1/4 turn rack and pinion actuators are available in a range of specifications to suit a wide variety of process conditions.

- **High Performance**
- **Reliable**
- **Cost Effective**
- **International Standards Compliant**

### 1/4 Turn Rack & Pinion Actuators



Control accessories available from KDV include:

- Solenoid valves
- Switch enclosures
- Electro-pneumatic positioners
- Limit stops
- Emergency hand wheel over-rides

Our positioners feature intelligent diagnostics and communicate via HART, PROFIBUS PA or Foundation Fieldbus.

### Control Accessories



## Plastic Lined Pipe, Fittings & Accessories



KDVs lined piping systems includes a full range of pipe, fittings and accessories for use in severe process conditions. Engineered to provide maximum resistance to corrosive media and for long service life, our plastic linings are made from only the best raw materials to ensure high purity and a flawless finish.

- Lined Pipe
- Elbow Joint (45° & 90°)
- Cross
- T Piece
- Equal Tee
- Reducer Tee
- Instrument Tee
- Sight Glass Check Valve
- Sight Glass



Plastic Injection Moulding Facility