

company profile

The **KVC (UK) Ltd**, which is part of the **Federal International 2000 Group**, was established in 1989.

It specializes in the design and manufacture of Quarter-Turn ball & butterfly valves for the various applications in many industries.

Other products within our supply range include Gate, Globe and Check valves available in both Cast & Forged materials such as Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Duplex, Hastalloy, Inconel, Monel, Titanium, etc.

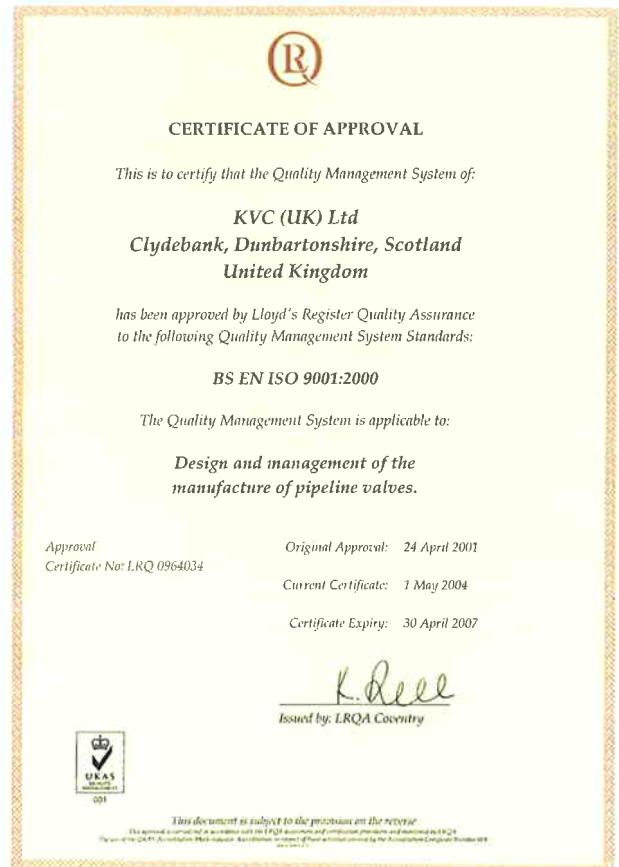
The aim of **KVC (UK) Ltd** is to provide valves and associated services that meet or exceed our customer's requirements at a realistic and competitive price. All valves are manufactured to the highest quality standards and are fully tested before leaving the factory.

The management of the Company has many years experience in the valve industry, and the organization and flexibility of the company allow **KVC (UK) Ltd** to offer short leadtimes, even on non-standard valves.

KVC (UK) Ltd uses computerized systems to control the design and manufacture of the product and to ensure the latest technical and material innovations are recognized.

KVC (UK) Ltd quality systems have been approved for the supply of products to meet the requirements of the Pressure Equipment Directive (PED), and is Lloyds approved to BS: EN ISO 9001, which ensures that our product is controlled through each stage of manufacture. Valves are supplied with our standard test certificates.

Full customer support through each stage of manufacture completes the package, which makes **KVC (UK) Ltd** valves an excellent choice for valve end users and engineering companies worldwide.



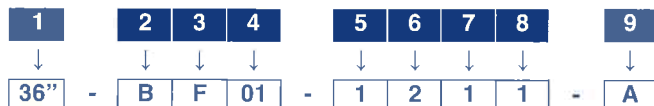
The **KVC®** series of resilient seated butterfly valves were developed in response to industries request for a reliable quality but low cost valve for use on corrosive medias such as seawater and brine (salty water). The design is such that the valve body and shaft are fully isolated from the line fluid and as such lower cost materials such as Cast Iron & Carbon Steel can be used in lieu of the more expensive alloys like Aluminium Bronze and Stainless Steel.

The **KVC®** series of resilient seated butterfly valves are ideally suited to the dual roles of process isolation and on-off control. With many body / seat material combinations, the valves are widely used in the following industries:-

- Commercial Construction (HVAC)
- Chemical Processing
- Food & Beverage
- Iron & Steel
- Marine
- Mining
- Oil & Gas Transmission
- Petroleum Production & Refinery
- Power Station
- Pulp and Paper
- Water Works

Due to the unique design, the valves can be supplied to suit all common flange standards such as BS 4504 and ANSI Classes 125-150, DIN and JIS standards. The valve face-to-face dimensions comply with those international standards such as BS 5155, ISO 5752, API 609, MSS SP-67 and AWWA C504.

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Example: 36''-BF01-1211-A

36" KVC "B" series Butterfly Valve, Double Flanged Body, Drilled to ANSI 125-150, Ductile Iron A536 Body, Epoxy Coated Ductile Iron Disc, SS410 Shaft, EPDM Seat, c/w Worm Gear Operator
Face-to-Face Dimension to ISO 5752 series 13

Example: 80-AL10-0532-X

DN 80 (3") KVC "A" series Butterfly Valve, Lugged Body, Drilled to DIN / BS PN 1.0 MPa, Gray Iron A126-B Body, Aluminium Bronze Disc, SS316 Shaft, Buna-N Seat, c/w Handle Lever Operator
Suitable for Dead-End-Service

1 Valve Size					
Customers have choice of specifying valve size in NPS (inch) or DN (mm).					
NPS	DN	NPS	DN	NPS	DN
1"	25 mm	16"	400 mm	44"	1100 mm
1-1/4"	32 mm	18"	450 mm	48"	1200 mm
1-1/2"	40 mm	20"	500 mm	56"	1400 mm
2"	50 mm	22"	550 mm	64"	1600 mm
2-1/2"	65 mm	24"	600 mm	72"	1800 mm
3"	80 mm	26"	650 mm	80"	2000 mm
4"	100 mm	28"	700 mm	88"	2200 mm
5"	125 mm	30"	750 mm	96"	2400 mm
6"	150 mm	32"	800 mm	104"	2600 mm
8"	200 mm	34"	850 mm	112"	2800 mm
10"	250 mm	36"	900 mm	120"	3000 mm
12"	300 mm	40"	1000 mm	128"	3200 mm
14"	350 mm	42"	1050 mm		

2 Type of Valve	
A	- A series, concentric disc type, c/w taper pins API 609-1A, MSS SP-67
AS	- AS series, concentric disc type, without taper pins API 609-1A, MSS SP-67
B	- B series, concentric disc type, c/w taper pins API 609-2C, ISO 5752 Series 13, BS 5155 Series 13 or AWWA504 (Short)
D	- D series, eccentric disc type (i.e. double offset disc) API 609-2C, ISO 5752 Series 13, BS 5155 Series 13 or AWWA504 (Short)

3 Type of End Connection	
W - Wafer Type	F - Double Flanged
L - Lugged Type	X - Special (to specify)

4 Rating / Flange Drilling		
ANSI / MSS Std.	DIN / BS Std.	JIS Std.
01 - ANSI 125-150	06 - PN 0.6 MPa 10 - PN 1.0 MPa 16 - PN 1.6 MPa	15 - JIS 5K 11 - JIS 10K 17 - JIS 16K

5 Body Material	
0 - Gray Iron, A126 Class B	3 - St. St., A351 CF8
1 - Ductile Iron, A536 Gr. 65-45-12	4 - St. St., A351 CF8M
2 - Carbon Steel, A216 WCB	5 - Aluminium Bronze, B148

6 Disc Material	
1 - A536 with Nickel Coating	6 - A351 CF8M
2 - A536 with Epoxy Coating	7 - A743 CA15
3 - A536 with Nylon Coating	8 - Monel, A351 M35
4 - A351 CF8	9 - Alloy 20
5 - Aluminium Bronze, B148-C95400	0 - Special (to specify)

7 Shaft Material	
1 - 13Cr, A582-416 or A276-410	4 - Monel
2 - SS304, A276-304	5 - 17-4PH, A564-630
3 - SS316, A276-316	6 - Special (to specify)

8 Seat (Liner) Material	
1 - EPDM	6 - Teflon over Buna
2 - Buna-N (NBR)	7 - R-PTFE
3 - Viton [®]	8 - Hypalon [®]
4 - Viton-GLT (high temp.)	9 - Neoprene
5 - Teflon (PTFE [®])	0 - Special (to specify)

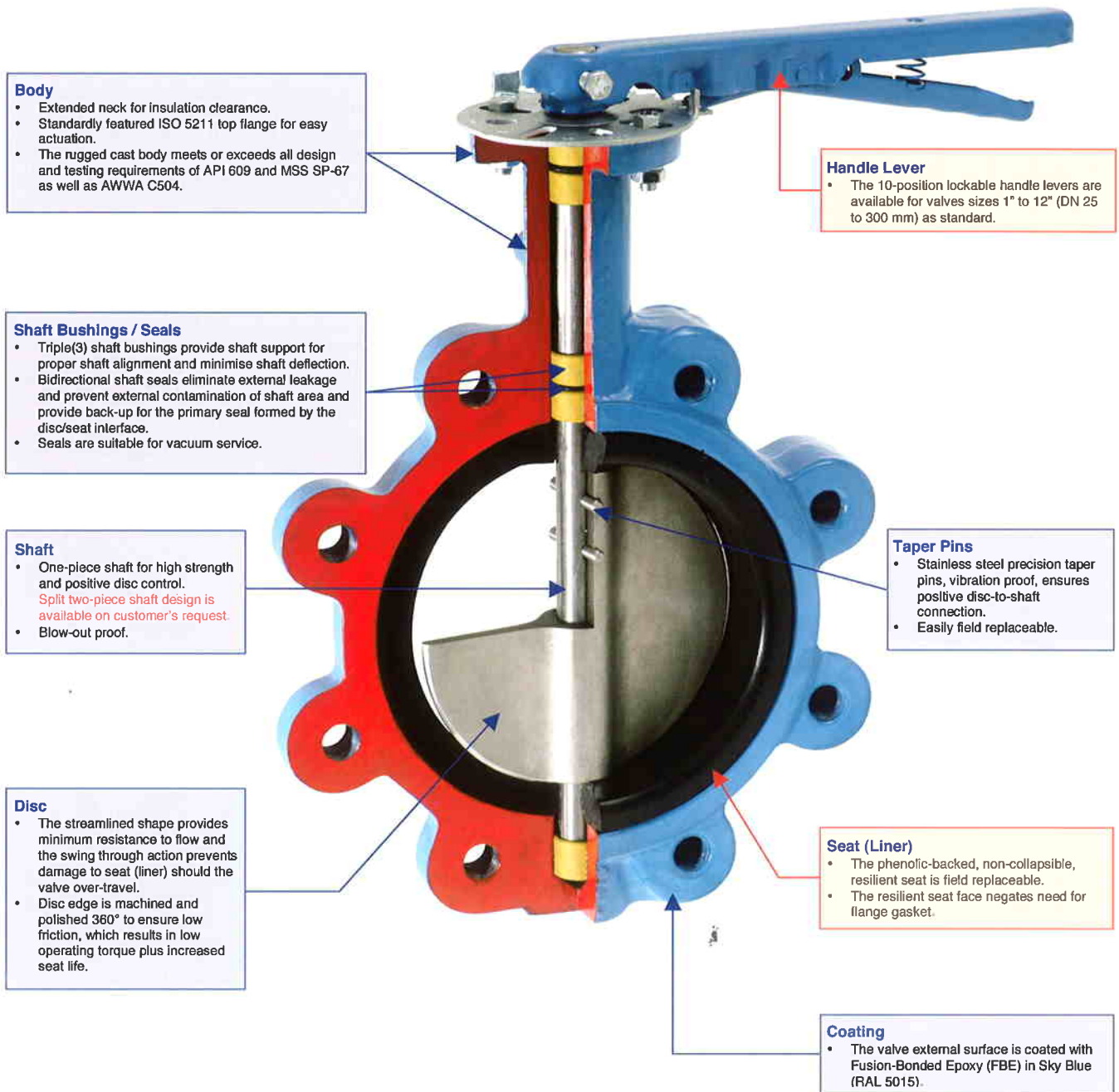
9 Actuation / Special Options	
A - Standard 12" & smaller sizes – handle lever operated as standard. Use "G" if gear operated. 14" & larger sizes – gear operated as std.	Note: refer to page 13, "actuation" for more information.
B - Bare Shaft	
G - Manual Gear Operated 12" & smaller sizes, if gear operated, use code "G"; For 14" & larger sizes, if gear operated, use code "A" (standard).	Note: refer to page 13, "actuation" for more information.
E - Electric Actuator Operated	
P - Pneumatic Actuator Operated	
X - Special Services (to specify)	

Hypalon[®], Neoprene[®], PTFE[®] and Viton[®] are trademarks of DuPont Performance Elastomers.

When ordering, a detailed description must accompany in customer's orders, which includes KVC figure number as shown above, and any special features / options.

The **KVC®** resilient seated butterfly valve combines all the best features, and all standards in one valve. And the price for this high performance valve is relatively low.

When it comes to valves, choose the name you know – **KVC®**.



Concentric Disc Type



Wafer Type

TECHNICAL DATA

Size Range	NPS 1" to 48" (DN 25 to 1200 mm)
Face-to-Face	API 609 Category A MSS SP-67 BS 5155 Series 4 (basically comply) ISO 5752 Series 20 (basically comply)
End Connection	ANSI B16.1 Class 125 / ANSI B16.5 Class 150 ANSI B16.47-A / MSS SP-44 Class 150 DIN 2501 PN10-16 / JIS 10K-16K on request
Top Flange	ISO 5211/1
Tightness Check	API 598 Table 5 ISO 5208 Category 3 ANSI B16-104 Class VI
Temperature Range	-40° C to 232° C - depending on the medium and selected body / seat materials
Operating Pressure	Max. 232 psi (16 bar) for 1" to 12" (25 to 300 mm) Max. 150 psi (10 bar) for 14" to 48" (350 to 1200 mm)
Vacuum	29" of mercury - depending on medium and temp.

STANDARD FEATURES

- All wafer- and lug-type BFVs are designed to allow for 2" of insulation.
- Wafer body features 2 or 4 flange alignment holes for easy installation. Lugged body with drilled and tapped holes may be used for dead-end service (please specify when ordering).
- ISO 5211 top flange is provided on every valve for easy actuation.
- One-piece shaft design, blow-out proof, ensures positive disc positioning and accurate flow control.
- Triple(3) shaft bushings/seals provide shaft support for proper alignment and backup for the primary shaft seal formed by the disc/seat interface.
- Disc edge is machined and polished 360° to assure low friction, which results in low operating torque plus increased seat life.
- Precision taper pins, vibration-proof, ensure positive shaft-disc connection.
- The phenolic-backed, non-collapsible, resilient seat is perfectly secured and fully lined in the body, which isolates the body components from the media and provides the primary shaft seal. Seat is field replaceable.
- Absolutely tight shut-off in either flow direction.
- Can be installed in any desired direction.



Lug Type



Double Flanged U-Section Type