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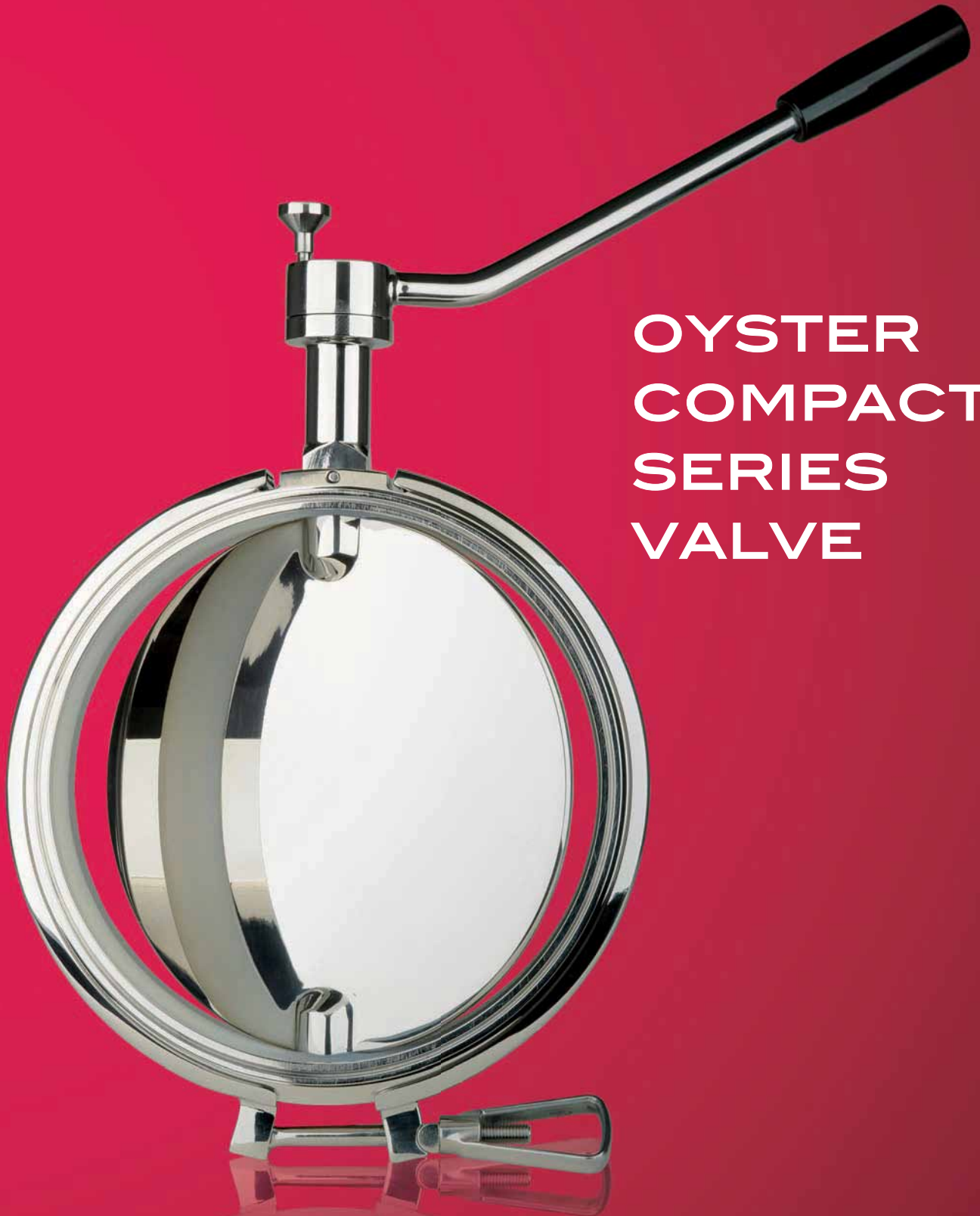
# Kemutec

*Specialists in Powder Processing Technology*

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**OYSTER  
COMPACT  
SERIES  
VALVE**

New clamp design ensures quick and easy dis-assembly and re-assembly of the valve for cleaning. The clamp design itself is cleaner and stronger.



A key feature of this valve is that, because of the compact layout, the distance between the edge of the vane and the perimeter of the clamp is some 60% less than in traditional butterfly valves. This reduction means that distortion of the valve body due to pressure applied to the vane is reduced, with a corresponding improvement in the performance of this valve in pressure applications."

## OYSTER COMPACT SERIES VALVE

The Oyster Compact Series valve is a step improvement in the design of the butterfly valves used for managing the flow of powders in the pharmaceutical, chemical and food industries. The new valve has a re-engineered valve body so as to reduce the overall dimensions of the valve and the weight by around 25% compared to more traditional designs.

The patented new clamp design simplifies the process of dismounting and re-assembling the valve in place, a process further helped by the reduced weight.

The valve comes with Tri-clamp mounting ferrules as standard, generally recognised as the leading pharmaceutical standard. Other mounting options can be produced to order.

### Quick disassembly for cleaning No special tools required

Pressure performance of this valve is enhanced by its compact geometry. We can supply the valve as standard tested to 1 bar (15 psi), with up to 3 bar (45psi) available as special to order.

In short, the Oyster Compact Series valve combines the advantages of the bolted valve body (strength, lower cost) with the advantages of the clamped body (quick disassembly for cleaning, no special tools required, easy reassembly), and adds a few advantages of its own (improved clamp design, lighter weight for easy one man operation).

The valve is available either as a standard product off-the-shelf or else as part of a fully customised installation designed to fit the exact end-user requirements.

## VARIANTS

The Compact Series valve body can also be supplied as a rotary dosing valve (Oyster Flowmaster Compact) or a tablet valve (Oyster Flexivane Compact).

## MOUNTING

The valve is designed with Tri Clamp ferrules machined from solid to ensure maximum precision, concentricity and freedom from imperfections. The valve bodies are generally manufactured to order which allows flexibility in the specification of the mounting which can be Inch sizes (BS or 3A spec) or metric (eg. DIN 32676). Other mounting options can also be supplied: flanges, welding ends, clamp.

## APPLICATIONS

The Oyster Compact Series valve is fully FDA compliant and is suitable for handling: Powders, Granules, Gels or Liquids in pharmaceutical, chemical or food environments.

## OPERATING PRESSURE AND TEMPERATURE

- All valves are tested to 1 Bar (15 psi) before despatch and certified to 0.49 (7 psi) as standard
- Certified to 3 bar to order
- Standard Operating temperature range for actuator-operated valves is: -30°C to 80°C. Solutions for systems outside this range can be developed on request

## FINISH

The Oyster Compact Series valve is finished to pharmaceutical standards

- Contact surfaces: mirror polished (Ra Max = 0.4µm)
- Other surfaces: satin (Ra Max = 1.5µm)
- Optional Full mirror finish available for clean room installations
- Electro-polished or ceramic sand-blasting finish available on request

## OPENING AND CLOSING TORQUE

These figures are obtained with new valves with dry gaskets under test conditions in our workshop. Actual torque found may differ depending on the product being handled and the condition of the gasket. All valves are tested before despatch, and the test results can be supplied on request.

VALVE SIZE	OPENING	TOLERANCE
DN 100 (4")	28 Nm	+/- 3 Nm
DN 150 (6")	42 Nm	+/- 4 Nm
DN 200 (8")	59 Nm	+/- 6 Nm
DN 250 (10")	80 Nm	+/- 8 Nm
DN 300 (12")	109 Nm	+/- 11 Nm



## SIZES

The Oyster Compact Series valve is available in the following standard sizes

- DN 100 (4"TC)
- DN 150 (6"TC)
- DN 200 (8"TC)
- DN 250 (10"TC)
- DN300 (12"TC)

Non standard sizes can be produced to order.

## OPERATION

The valve can be supplied for either manual or automatic operation:

### Manual options

- Lever (with locking mechanism to prevent accidental opening)
- Handwheel and gearbox

### Automatic options

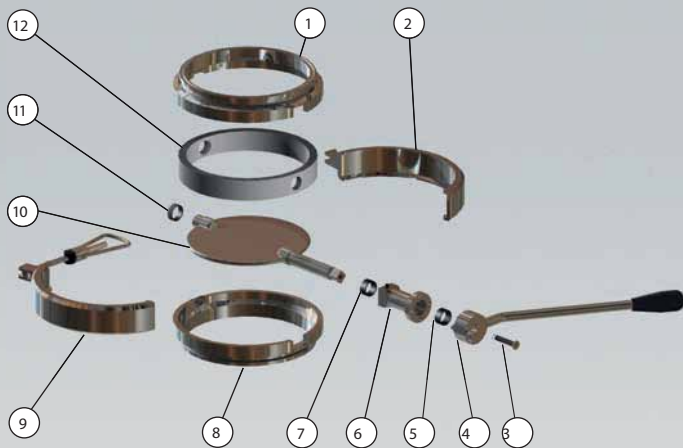
- Single action (SR) or double action (DA) pneumatic actuators (rack and pinion type)
- Aluminium or stainless steel
- Can be fitted with NAMUR single or double solenoid valves, limit switches or position sensors
- ATEX certified on request
- Degree of opening and closing is fully adjustable
- Air supply required for pneumatic actuators; min 5 bar (75 psi), max 10 bar (150 psi)



## MATERIALS

Material certificates are supplied for all contact parts and certificates of FDA conformity for gaskets. All valves are supplied marked with company name, lot number and series number.

TABLE OF MATERIALS	
Valve body	AISI 316L (DIN 1.4404), Hastelloy C22
Vane	AISI 316L (DIN 1.4404), Hastelloy C22
Gasket	Silicone, EPDM
Bushes	PTFE
Clamp	AISI 304 (DIN 1.4301), AISI 316L (DIN 1.4404)
Lever (Bakelite pommel)	AISI 304 (DIN 1.4301), AISI 316L (DIN 1.4404)
Lever/actuator support	AISI 304 (DIN 1.4301), AISI 316L (DIN 1.4404)



- |                           |               |
|---------------------------|---------------|
| 1. Valve Body             | 7. Bushes     |
| 2. Clamp                  | 8. Valve Body |
| 3. Lever securing bolt    | 9. Clamp      |
| 4. Lever (Bakelite knob)  | 10. Vane      |
| 5. Bushes                 | 11. Bushes    |
| 6. Lever/actuator support | 12. Gasket    |

## WEIGHTS

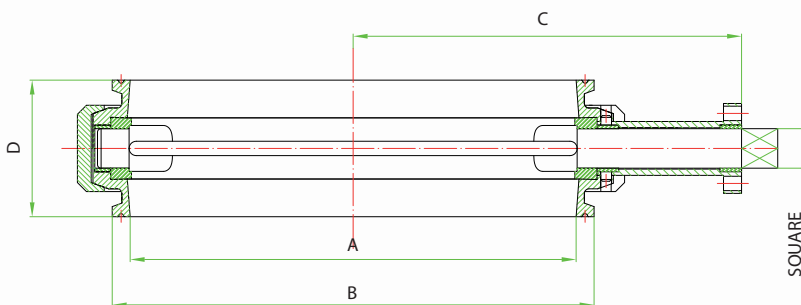
Weight for the basic valve with lever. Actuator weights vary with specification and accessories. Exact information can be provided on application.

WEIGHTS	
DN	WEIGHTS (Kg)
100	4.76
150	6.38
200	8.21
250	10.31
300	12.60

STANDARD DIMENSIONS (MM)					
NOMINAL VALVE SIZE	A	B*	C	D	E
100	100	4"TC	140.0	76	170
150	150	6"TC	165.0	76	170
200	200	8"TC	190.0	76	170
250	250	10"TC	215.0	76	170
300	300	12"TC	240.0	76	170

\* Metric Tri-clamps can be supplied on request

Light weight  
Improved clamp  
design



## OTHER MUCON PRODUCTS

Besides the Oyster Compact series butterfly valve and all its variants, we also offer the following products, all distinguished by their innovative design and excellent engineering:

### OYSTER SUPERCLEAN

Used in CIP applications this valve is designed so that it is completely washable since there is no fixed point of contact between the vane and the gasket.



### OYSTER SAMPLEMASTER VALVE

Extract samples of powders from driers etc. Designed to reduce wear and easy dismantling for cleaning with no special tools.



Plus a range of accessories manufactured to full GMP standards including: Clamps, Tri-Clamps, welding ferrules, mounting flanges, hoppers, Sight glasses, silicone compensators.



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