

**WORLDWIDE OFFICES**

**UK**

Tel: +44 1608 651666  
 Fax: +44 1608 651635  
 www.matcon.co.uk

**USA**

Tel: +1 856 256 1330  
 Fax: +1 856 256 1329  
 www.matconinc.com

**Germany**

Tel: +49 7621 970 610  
 Fax: +49 7621 970 609  
 www.matcon.de

**Holland**

Tel: +31 23 5 10 10 80  
 Fax: +31 23 5 10 10 89  
 www.matcon.nl

**Spain**

Tel: +34 93 654 96 39  
 Fax: +34 93 654 96 04  
 www.matcon.es

**Sweden**

Tel: +46 455 776 70  
 Fax: +46 455 247 72  
 www.matcon.se

**France**

Tel: +33 (0) 89 89 75 02  
 Fax: +33 (0)89 89 83 90  
 www.matcon.fr

**China**

Tel: +86-21-66081980  
 Fax: +86-21-66081982  
 www.matcon.cn

**Australia**

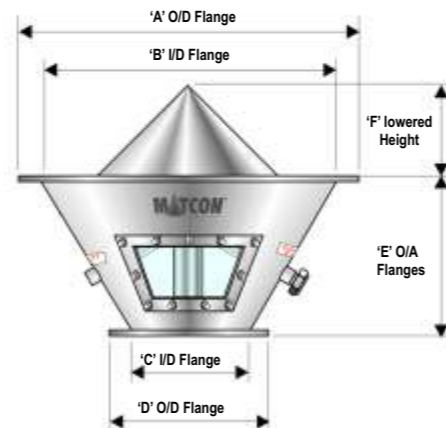
Tel: +61 2 9892 4822  
 Fax: +61 2 9892 4844  
 www.matcon.com.au

**Japan**

Tel: +81 45 861 1627  
 Fax: +81 45 861 1628  
 www.matcon.co.jp

**Discharger Valve**  
*(Pulsing Action with added Vibration)*

Matcon supply a wide range of sizes of Discharger Valves for silos and IBCs from 50kgs/110lbs to 10,000tonne capacity. The outlet diameter ranges from 200mm/8" upwards as required to suit the process.



**Metric**

Size	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg
1B	570	480	200	280	422	243	35
2B	782	680	200	314	416	296	110
3B	1006	900	300	458	520	268	218
4B	1309	1200	595	695	575	454	415
5B	1610	1500	900	1000	595	523	475
6B	1900	1800	900	1000	879	552	550
7B	2280	2100	1500	1300	854	717	750
8B	2580	2400	1600	1600	829	875	1000

**Imperial**

Size	A ins	B ins	C ins	D ins	E ins	F ins	Weight lbs
1B	22.4	18.9	7.9	11.0	16.6	9.6	77
2B	30.8	26.8	7.9	12.4	16.4	11.7	242
3B	39.6	35.4	11.8	18.0	20.5	10.6	480
4B	51.5	47.2	23.4	27.4	22.6	17.9	913
5B	63.4	59.0	35.4	39.4	23.4	20.6	1045
6B	74.8	70.9	35.4	39.4	34.6	21.7	1210
7B	89.8	82.7	59.1	51.2	33.6	28.2	1650
8B	101.6	94.5	63.0	63.0	32.6	34.5	2200

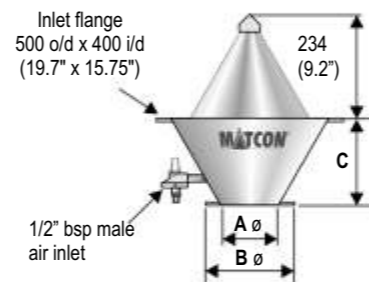
**Metering Valve**  
*(Pulse Action)*

**Metric**

A ø mm	B ø mm	C mm	Weight kg
50	150	303	20
100	200	259	20
150	250	217	20
200	300	175	20

**Imperial**

A ø ins	B ø ins	C ins	Weight lbs
2	6	12	44
4	8	10.2	44
6	10	8.5	44
8	12	6.9	44



# SILO/HOPPER DISCHARGER VALVES



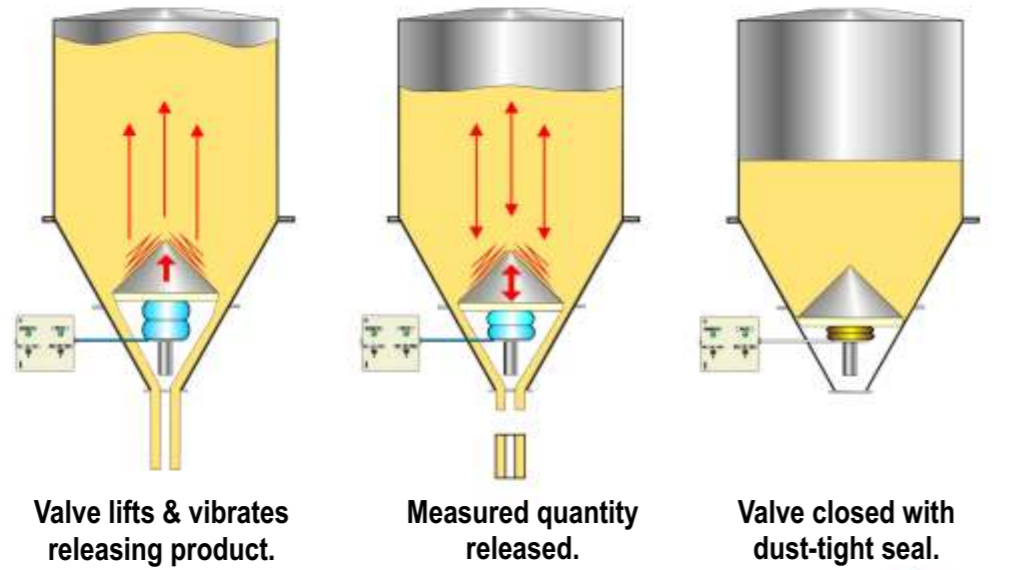
**Complete Material Control**  
*Without Additional Equipment*

This information and data is provided for illustrative purposes only and does not form part of any contract or agreement. The information and data may be updated and changed from time to time.

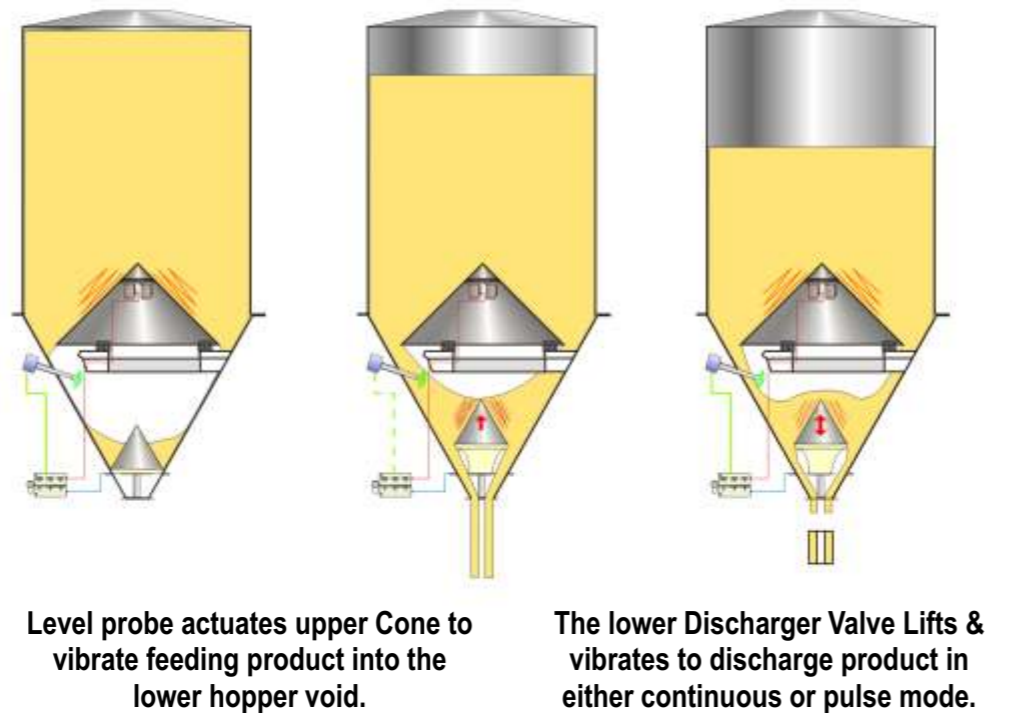
# SILO/HOPPER DISCHARGER VALVES

3 in 1

## Small to Medium Silo/Hoppers



## Medium to Large Silo/Hoppers



### Typical Problems

**Flushing**  
Many free flowing products flush uncontrollably making accurate dosing impossible.

**Bridging**  
Occurs either mechanically where particles interlock or with compression where cohesive materials consolidate during storage.

**Segregation**  
Fine and coarse particles flow through the core at different rates, inducing segregation of blended materials.

**Degradation**  
Granulate damage and/or particle surface erosion (dust generation) caused by product transfer.

**-'ve Venting**  
Is required during discharge to balance pressures above and below the product.

**Ratholing**  
Ratholing (or 'core flow') occurs when the material adheres to side walls and only flows through centre of vessel.

### Matcon Solutions

Matcon Cone Valve Technology provides positive valving and controlled flow.

Matcon Cone Valve Technology provides powerful lifting, vibrating and pulsing action which breaks bridges.

Matcon Cone Valve Technology promotes 'mass flow' discharge, ensuring 'first in' 'first out'.

Matcon Cone Valve allows material to flow by gravity thus avoiding aggressive handling.

Matcon Cone Valve Technology provides 'self venting' through the material during controlled discharge.

Matcon's Cone Valve annular gap pulls material from all parts of the vessel, preventing core flow.

### 1. Discharger

- ✓ Promotes complete discharge.
- ✓ Overcomes "Bridging", "Rat-holes", "Flushing" and "Segregation"
- ✓ Promotes "Mass Flow"

### 2. Feeder

- ✓ Controlled flow
- ✓ Accurate Dosing
- ✓ Gravimetric or Volumetric
- ✓ Eliminates the need for secondary feeders

### 3. Valve

- ✓ Fail safe shut off of material flow

▲ *Matcon's world leading Cone Valve Technology offers unrivalled performance in bulk solids handling.*

▲ *Promotes discharge of even the most difficult materials from free flowing and flushing to cohesive.*

▲ *Round, square or rectangular configurations to fit new or existing IBCs and silos.*

▲ *Dust-tight with no flexible connections conforming to COSHH, DIN and FDA regulations.*

# CONE VALVE TECHNOLOGY



Chemical Industry



Agricultural Industry



Pharmaceutical Industry



Construction Industry