

BULK MATERIAL VALVES

2026



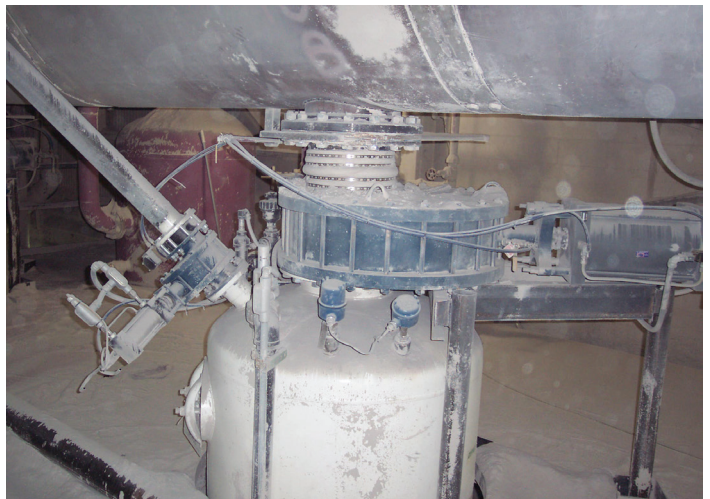
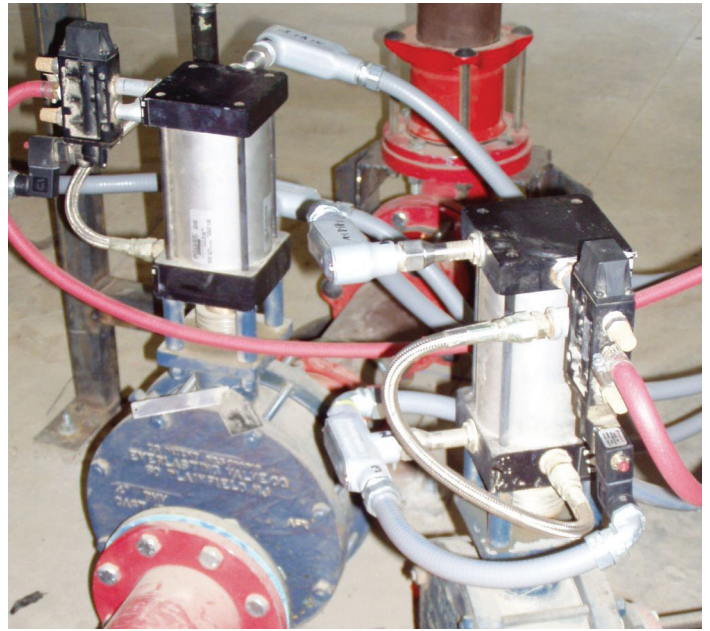
BMV SERIES

 **EVERLASTING**
VALVE COMPANY
WEARS IN, NOT OUT®

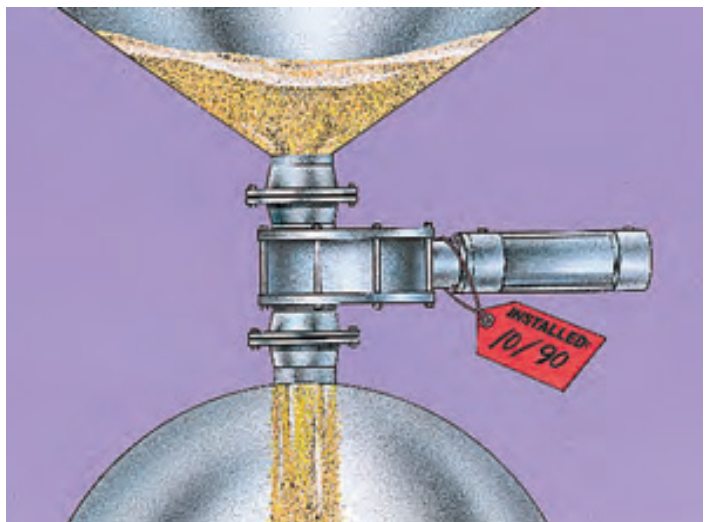
BMV Series

A complete line of bulk material valves engineered for use in abrasive and severe-service applications. When combined with a fabricated lateral "Y" connection, the assembly functions as a diverter valve capable of diverting, blending, or fully isolating material flow. Each valve incorporates Everlasting's proven and patented rotating disc and seat design to ensure reliable sealing and long service life, and service, reducing maintenance time and improving operational uptime.

BULK MATERIAL VALVES



This exclusive service provider of gypsum products turned to Everlasting Valves to minimize repairs and downtime to support their high production needs of high-performance building products.

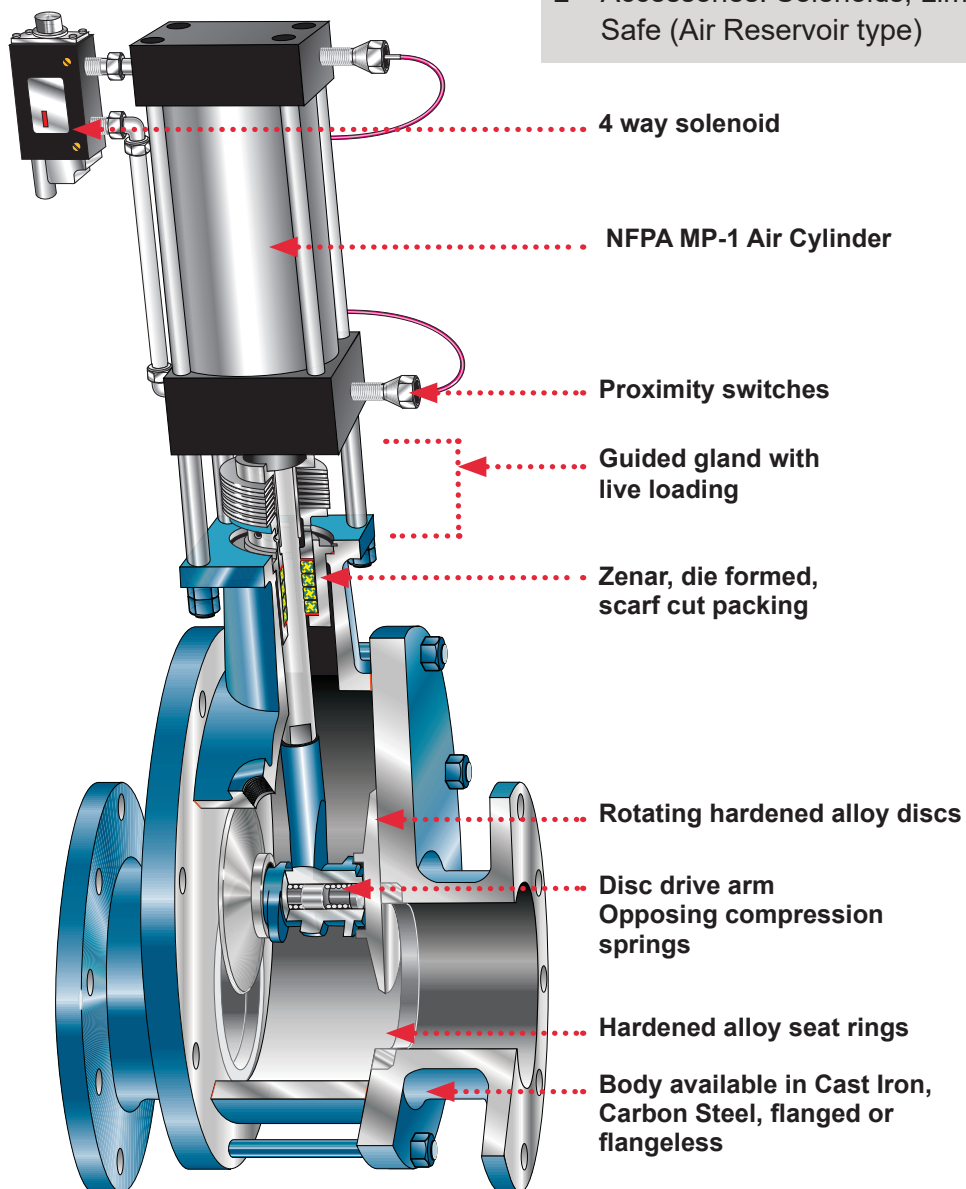


Sizes 2" to 14"; vacuum to 100 PSIG; Temperature to 750°F.



Bulk Material Valve Specifications

- Sizes: 2" (50mm) through 14" (350mm), including 5" (125mm) Cast iron sizes 2" through 8" available from stock
- Pressure: Vacuum to 100 psig (7 bar)
- Temperature: 450°F, Carbon Steel 550°F, Special Design 750°F
- Trim: Hardened 440 Stainless Steel
- Construction: Cast Iron, Carbon Steel
- Trim (Seats and Discs): Cast 440 C Stainless Steel, Hardened
- Connections: Flanged, ASME and PN, Lugged
- Operator: Air cylinder
- Accessories: Solenoids, Limit Switches, Fail Safe (Air Reservoir type)



Bulk Material Valves - Overview

Size Range 2" (50mm) to 12" (300mm)



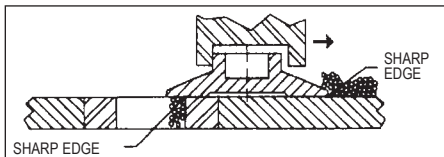
The bulk material valve that's built to take

Self Cleaning Internals

Its open body configuration allows fines to move about freely preventing accumulation that causes binding of moving parts or damage to seats in other traditional designs. Media has room to be displaced by the discs with each cycle and the eccentric body to port design promotes settled product to swirl each time the valve opens, thereby cleaning its interior.

Sealing Surfaces Protected

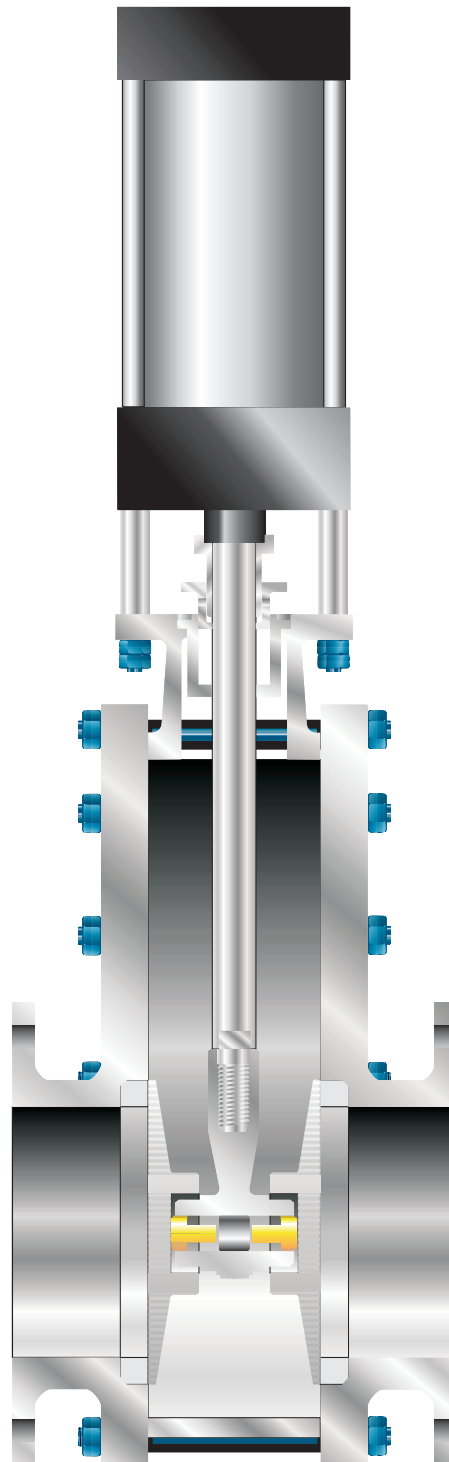
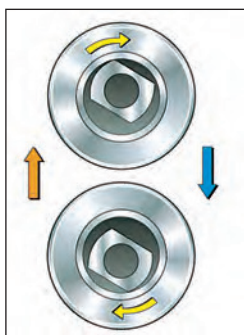
The Rotating Shearing Disc concept since being introduced in 1904 has proven itself in applications where media is abrasive and erosive. The spring loaded discs are held firmly against the path they travel, then shields their sealing surfaces from exposure to any harsh process while the valve is open. Valve is bi-directional. Deposits that may form will be sheared from the sealing surfaces by sharp edges of the seat rings and rotating discs.



Shearing action clears disc face and its path of particulate.

Self Lapping Discs

They rotate as the center of the applied force and the centroid of friction force move toward alignment. High cycling is beneficial. Scratches that develop on the wide sealing surfaces are polished away as the valve is opened and closed, there is no similar valve.

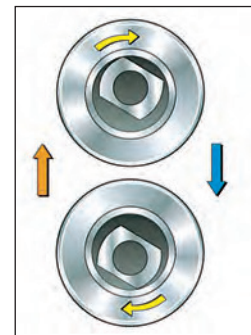


Positive Shut Off

Machine lapping of the sealing surfaces at the factory assures tight shut off. Leak rates are less than industry standards for metal seated valves: ANSI B16.34; MSS-SP61.

Pneumatic Actuator and Valve Are Separated

Air cylinder standoff allows easy inspection of sealing means and facilitates field packing. Dynamically loaded stuffing box can be field packed without removing the valve from line. Special cylinder rod seal resists abrasion and tearing, and withstands temperatures to 400°F (+204°C) at point of contact.



Options

Air cylinder mounted proximity limit switches on single rod cylinder; or mechanical style with double ended cylinder.

Electric solenoid or manually operated cylinder air valve. All NEMA classifications can be furnished to meet your specifications.

Plant air or electric loss fail safe protection using an electro-pneumatic air reservoir system is available.

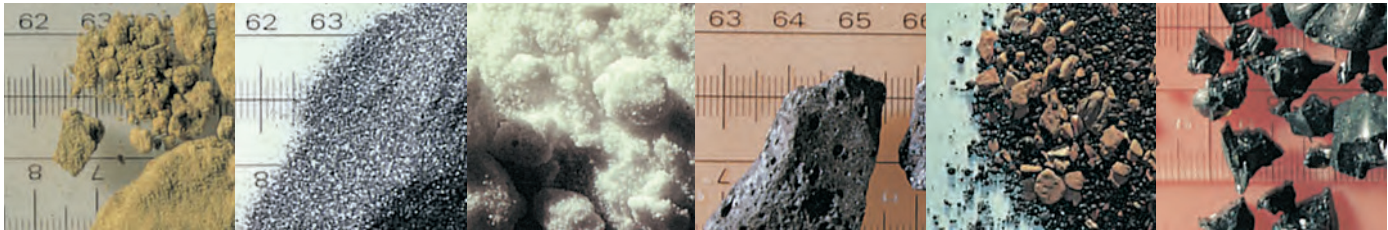
Special bracketing of the air cylinder increases valve temperature rating to 750°F.



Bulk Material Valves - Overview

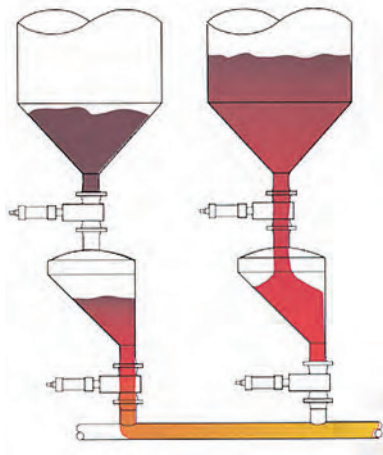
Size Range 2" (50mm) to 12" (300mm)

For applications where abrasive solids are handled



Everlasting solves plant problems.

Ash Handling



APPLICATION: Ash Handling

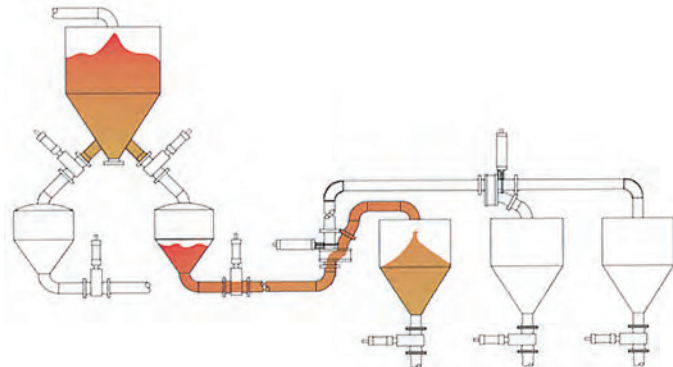
PROBLEM:

Sealing members would erode and have to be replaced on a weekly basis. Flapper style valves cycling once a minute wouldn't always close against large chunks of 600°f vitrified coal ash trapped between its sealing members.

SOLUTION:

The Everlasting BMV (bulk material valve) was installed providing trouble free service in this high temperature (see options), high cycling application.

In-organics



APPLICATION: In organics

PROBLEM:

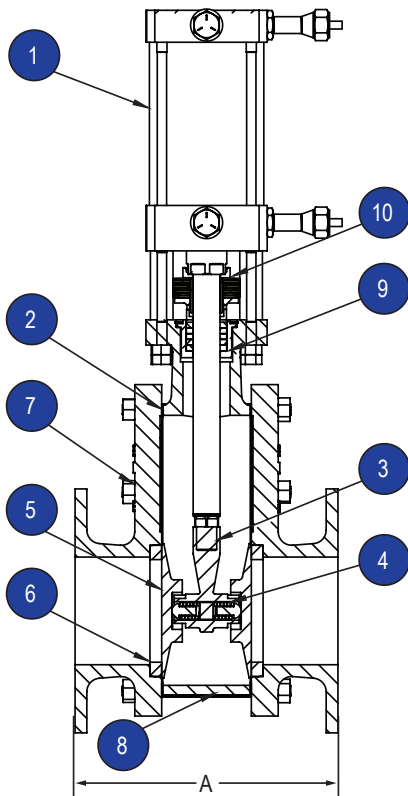
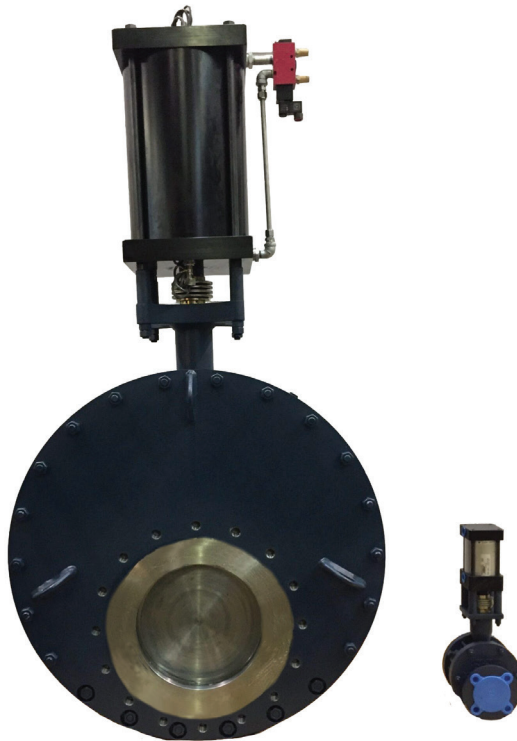
Production is moving granular abrasives with a bulk density of over 100 lbs/ft³.

SOLUTION:

Everlasting Valves replaced transporter feed knife gate valves that developed internal and external leakage. Transporter outlets, now fitted with Everlasting Valves, replaced ball valves that suffered packing leaks.

Bulk Material Valves - Dimensions

Size Range 2" (50mm) to 12" (300mm)



Features

Standard Design:

- Press Range: Vacuum to 100 psig (7 bar) Temp Range: Cast Iron 450°F (+232°C)
- Carbon Steel 550°F (+287°C)
- Ends: Flat Faced – 125# Drill
- Operator: Air Cylinder, Linear

Options:

- Limit or Proximity Switches
- Field mounted Limit Switches or Visual Indication require Double Ended Air Cylinder
- Solenoid Valve
- Fail-Safe Air Reservoir
- 750°F (+400°C) Design



Wide Array of Options

- Air cylinder mounted proximity limit switches on single rod cylinder; or mechanical style with double ended cylinder.
- Electric solenoid or manually operated cylinder air valve.
- All NEMA classifications can be furnished to meet your specifications.
- Plant air or electric loss fail safe protection using an electro-pneumatic air reservoir system is available.
- Special bracketing of the air cylinder increases valve temperature rating to 750°F.

Part Identification

Item	Nomenclature	Construction
1	Air Cylinder	Aluminum Body Synthetic Fiber - Nitrile Binder
2	Gaskets	Binder
3	Disc Drive	Hardened Steel Alloy
4	Disc Springs	17-7 Stainless Steel
5	Discs	440 Stainless Steel
6	Seats	440 Stainless Steel
7	Body	Cast Iron or Carbon Steel
8	Distance Ring	Cast Iron or Carbon Steel
9	Stuffing Box	Brass - Packing
10	Gland Springs	Electro-less Nickel Plated

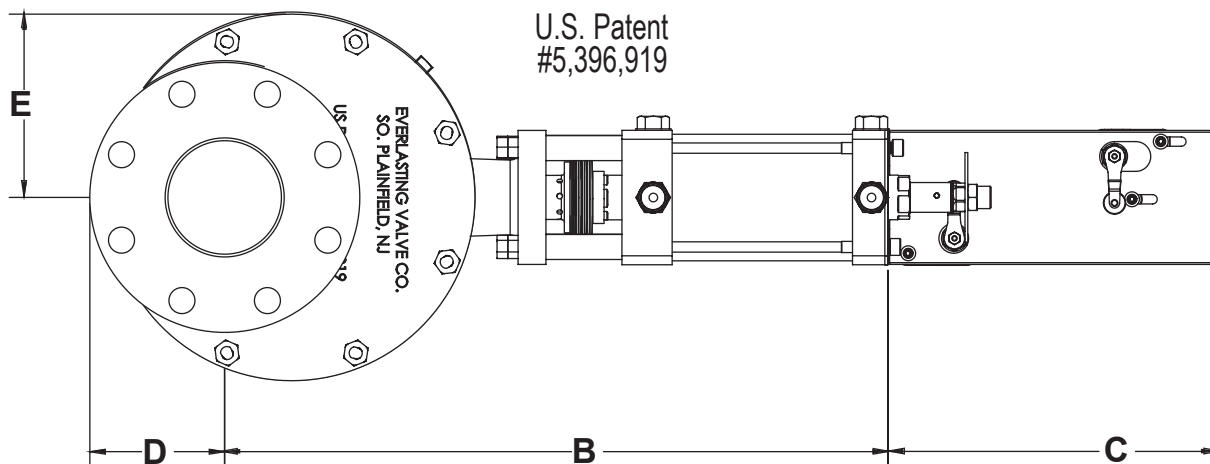


Bulk Material Valves - Dimensions

Size Range 2" (50mm) to 12" (300mm)



Dimensions



Size		A		B		C		D		E		Weight lb. (kg)			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb.	kg	lb.	kg
2	50	7	178	17.31	440	9	229	3(76)	76	3.75(95)	95	50	23	60	27
2.5	65	8.25	210	19.25	489	11	279	3.5	89	5	127	75	75	65	30
3	80	8.25	248	19.5	495	11	279	3.75	95	5	127	85	39	70	32
4	100	9.75	267	22.25	565	11	279	4.5	114	6.125	156	120	55	110	50
5	125	10.5	267	26	660	13	330	5	127	7.75	197	200	91	180	82
6	150	10.5	267	28.56	725	13	330	5.63	143	8.875	225	250	114	225	102
8	200	13.5	343	35.44	900	15.5	394	7.06	179	11.5	292	460	209	350	159
10	250	15	381	41.06	1043	17	432	8.13	207	13.5	343	N/A	N/A	700	318
12	300	15	381	50.63	1286	19	483	9	229	15.5	394	N/A	N/A	1050	477

Bulk Material Valves - Order Matrix

Size Range 3" (75mm) to 12" (300mm)



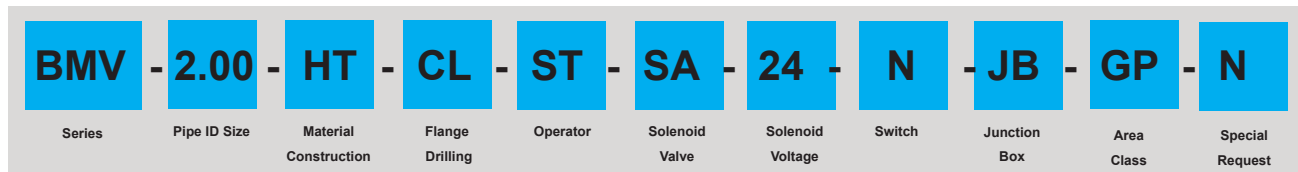
Ordering Matrix

Select the configuration to build your Bulk Material Valve.

The functionality of the Bulk Material Valve can be determined by the model matrix below. Utilize the guide below to select the best valve configuration for the application.

How to configure BMV: Figure number example: **BMV-2.00-HT-CL-SA-24-N-JB-GP-N**.

Bulk Material Valve, two inch, High Temp Carbon Steel construction, Single Ended Tandem Air Cylinder outside stuffing box, solenoid valve, GO proximity limit switches. Materials of construction stated above are standard. Mechanical and field mounted limit switches require double-ended air cylinders.



Type	Option	Description
Series	BMV	Bulk Material Valves
Pipe ID Sizes	2.00	= 2" Diameter
	2.50	= 2.5" Diameter
	3.00	= 3" Diameter
	4.00	= 4" Diameter
	5.00	= 5" Diameter
	6.00	= 6" Diameter
	8.00	= 8" Diameter
	10.00	= 10" Diameter
	12.00	= 12" Diameter
Material Construction	HT	= Carbon Steel (High Temp)
	C	= Carbon Steel (Std)
	A	= Cast Iron
Flange Drilling	CL	= CL150
	EN	= PN10
Operator	DE	= Double Ended Air Cylinder
	SET	= Double Ended Tandem Air Cylinder
	SE	= Single Ended Air Cylinder
	ST	= Single Ended Tandem Air Cylinder
Valve Connection	FL	= Flanged
	LG	= Lugged

Type	Option	Description
Solenoid Valve	SA	= ASCO Solenoid
	SV	= EV Standard
	N	= None
	SZ	= Other
Solenoid Voltage	110	= 110V AC
	24	= 24V DC
	NS	= No SOV
Switches	EX	= EXAR Switches
	GO	= Proximity Switches
	N	= None
	OP	= OPAR Switches
	RE	= Reed Switches
Junction Box	JB	= Junction Box
	N	= None
Area Class	XP	= Explosion Proof
	GP	= General Purpose
Special	ZZ-ii	= Anything not included in above
	N	= None
	TU	= SS Compression fittings & Tubing



Bulk Material Valves - Order Matrix

Size Range 3" (75mm) to 12" (300mm)

Option Identification

Optional Junction Box

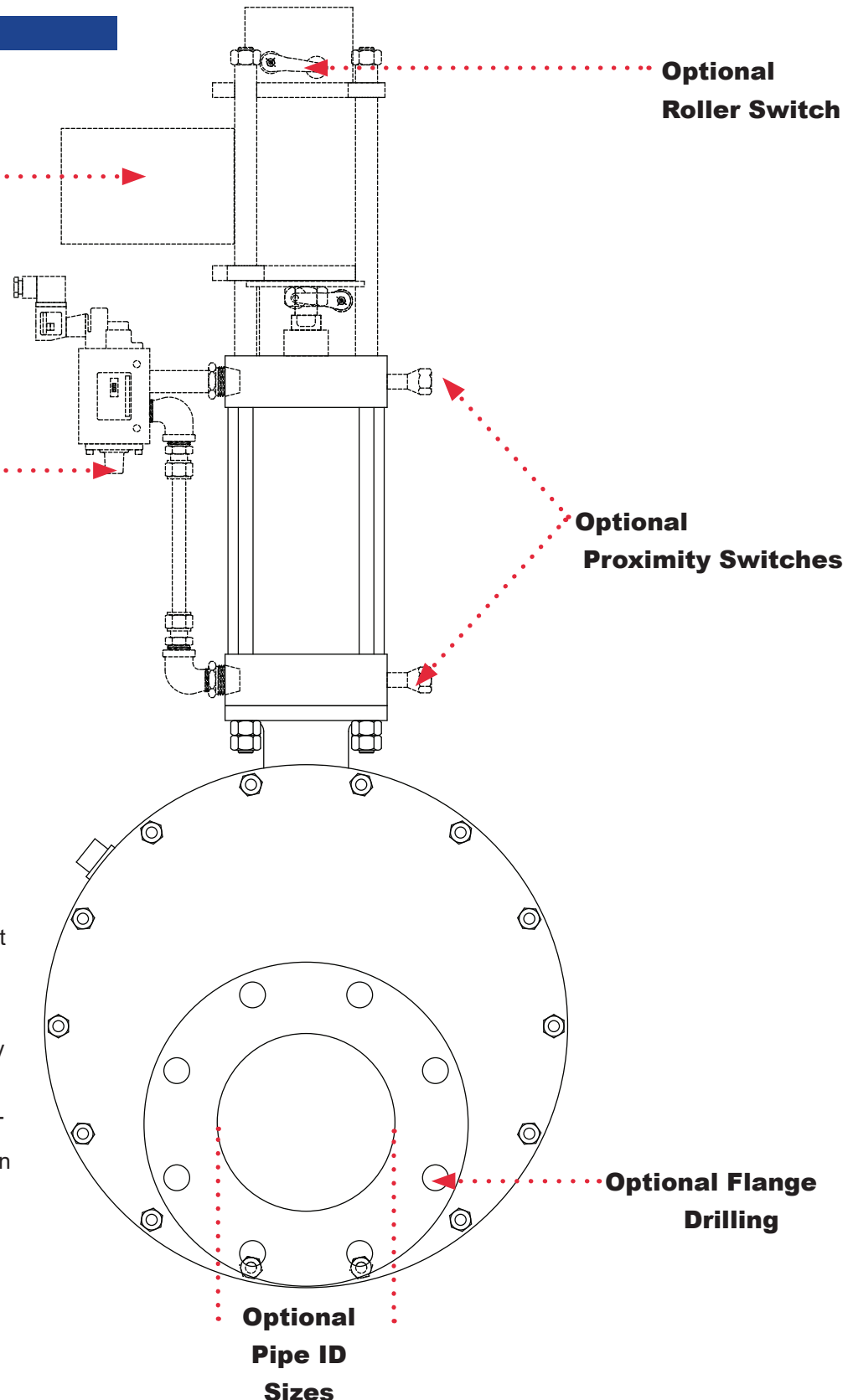
Optional Solenoid Valve

Standard Design:

- Press Range: Vacuum to 100 psig. (7 bar)
- Temp Range: Up to 450° F (232° C) Iron
- Up to 550° F (288° C) Steel
- Ends: Flange, Flat Faced – 125# Drilling
- Operator: Air Cylinder, Linear

Options:

- Area Class must be specified in order matrix
- Limit or Proximity Switch
- -Double Ended Cylinder Required for Field Mounted Limit Switches
- Solenoid Valve
- -Manual Air Valve
- Fail-Safe Air Reservoir
- PN 10/16 Flange Drilling Only
- 750° F Hot Design Available
- Process Series Valves for Higher Pressures & Temperatures
- Special Requests not listed on options; I.e., Testing Requirements, Certification, Inspection, Material, Packing...





Service Excellence in Action

When you choose Everlasting Valve Company, you're not just selecting a product—you're gaining a partner dedicated to long-term performance and support. Our commitment to service extends far beyond standard maintenance or repair. It means timely access to our knowledgeable team of engineers and service professionals—ready to respond anytime, anywhere your operations demand.

At Everlasting, we pride ourselves on becoming an extension of your team. You can count on us to take ownership of every challenge and deliver practical, lasting solutions. When issues arise, our technical experts go beyond the symptoms to uncover the true cause. We evaluate your complete system to identify and resolve problems with precision and care.

Our comprehensive service approach is designed to maximize equipment reliability, enhance operational efficiency, and reduce total cost of ownership.

Contact us today for your next project!



Whether you are requesting a quote, need more information, or want to discuss customized valves that address your specific requirements, just let us know. Everlasting Valve is committed to providing prompt, responsive service, every time.

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