



**WE ADD  
RELIABILITY  
TO THE  
PLASTICS  
INDUSTRY**

FUTURE-PROOF VALUE SINCE 1950





## **SOLUTIONS FOR PRODUCING AND RECYCLING PLASTICS**

Plastic is a versatile material that touches every aspect of our lives. Plastic is everywhere, from the toys our kids play with to the phones in our pockets. Aside from its being a wonderful material, there is also rising in awareness that too much plastic is going to waste.

DMN-WESTINGHOUSE contributes to solutions for both the production and the recycling of Plastics. We have developed special rotary valves and rotor models for virgin plastic powder, Recycled regrind, flaked, and granular plastics to avoid clogging the powders or breaking the Granular products, thus minimising product degradation and enabling manufacturers to work with recycled raw material.

For the recycling of plastic bottles, we have developed special rotor features to ensure that these awkward materials are fed smoothly into the grinders. We expect that our focus on facilitating the recycling of plastics will develop in the coming years, anticipating the needs of our customers.



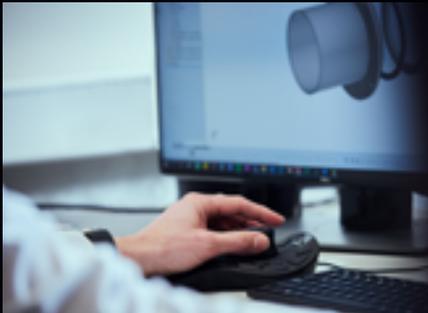
## LET US ENGINEER YOUR PLASTICS PRODUCTION TO PERFECTION

Now is the time to leave the clogging, cross-threading and blockages behind. Let us bring our extensive experience in plastics production to the table and engineer your plastics production process to perfection. Increase your output, improve your quality, and implement solid solutions today that keep you one step ahead of future requirements and regulations. Are you ready for true process reliability?

## OUR QUALITY FOR THE PLASTICS INDUSTRY

No two plastics factories are the same, so there are no single solutions that fit all systems. Our rotary valves and diverter valves will always be part of a tailored solution. We proudly present our selection of valves that have already proven their quality for plastics:

- **GL** – Granular rotary valve – premium quality as the standard for processing pellets
- **AL** – High-duty rotary valve – ultimate flexibility for processing recycled materials
- **PTD-II** – Dual pipe plug diverter – all-round diverter with tight construction, no leakage to atmosphere
- **SPTD** – Single pipe plug diverter – for diverting only and available in large sizes



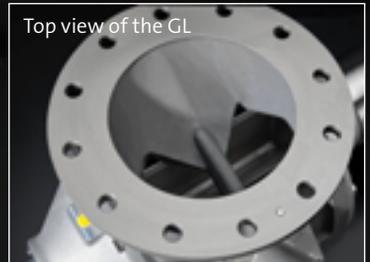
# DISCOVER OUR SELECTION FOR PLASTICS

DMN-WESTINGHOUSE offers a range of custom-made solutions for handling virgin and recycled regrind, flaked, and granular plastics. From the GL Granular rotary valve specifically designed for plastic granule applications, to the SPTD designed for routing powders and pellets with minimal degradation in pneumatic conveying systems.

Future-proof your production today with the knowledge of DMN-WESTINGHOUSE and our proven selection for the plastics industry: the GL and AL rotary valves and the PTD-II and SPTD diverter valves.



Top view of the GL



## GL – GRANULAR ROTARY VALVE

The GL rotary valve was designed with the plastics industry in mind. With roughly the same features as the AL rotary valve, the GL rotary valve has an integrated inlet restrictor for maximum protection against product degradation. The design ensures that the plastic product stream enters the valve in a more centralized manner, eliminating the possibility of damaged or sheared plastics.

The GL rotary valve is specifically engineered for gravity feeding and pneumatic conveying of granular materials. This rotary valve is particularly well-suited for the diverse plastics industry because of its optimized body and rotor designs. These features minimize degradation while ensuring that pockets are filled as efficiently as possible.

AVAILABLE SIZES AND CAPACITY					
GL	150 (6")	200 (8")	250 (10")	300 (12")	350 (14")
Ltr./rev.*	5	10	17.5	32	79
Ft <sup>3</sup> /rev.*	0.18	0.35	0.62	1.13	2.79

\*At 100% filling

## AL – HIGH-DUTY ROTARY VALVE

When handling plastics, the AL rotary valve is a perfect fit on many occasions. The AL rotary valve is ideal for measuring and pneumatically conveying plastic powder and/or granular materials. Thanks to our modular design philosophy, a wide range of valve configurations can suit your needs.

### SAY GOODBYE TO DAMAGED OR SHEARED PLASTICS

By fitting our custom-made inlet restrictor to the AL rotary valve, the plastic product stream will enter the rotary valve in a more centralized manner, minimizing potential damage to the product. To optimize the existing setup, you can also retrofit the inlet restrictor.

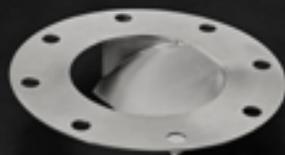
A great example of the versatility of this valve is when it is equipped with flexible polyurethane blades, these can handle fibre-rich plastics perfectly; plastic chunks won't get stuck in the rotary valve.

Furthermore, the AL rotary valve is crafted in stainless steel or cast iron. The AL rotary valve comes in our MZC-I design, featuring support rails for damage-free and easy disassembly. MZC-I rotary valves are extremely durable and efficient. The end covers have outboard bearings, lubricated and sealed for life. This makes the AL rotary valve an extremely comprehensive choice for the plastics industry.

AVAILABLE SIZES AND CAPACITY										
AL	100 (4")	150 (6")	175 (7")	200 (8")	250 (10")	300 (12")	350 (14")	400 (12")	450 (18")	500 (20")
Ltr./rev.*	0.8	2.5	5.5	10.5	19	34	58	91	135	230
Ft <sup>3</sup> /rev.*	0.03	0.09	0.18	0.37	0.67	1.20	2.05	3.21	4.77	8.12

\*At 100% filling

Inlet restrictor





## PTD-II – DUAL PIPE PLUG DIVERTER

The PTD-II plug-type diverter has a clear mission: routing powders and pellets with minimal plastic product degradation in pneumatic conveying systems.

Thanks to precise machining, effective sealing, and a clear internal geometry, it ensures the smooth passage of plastic materials. The easy-to-use, fail-safe design allows quick on-site inspections, cleaning, and seal replacement when necessary.

This diverter valve conforms to all current workplace safety legislation because there are no moving parts on the outside. The compact design is highly appreciated when fitted in narrow surroundings.

PTD-II diverters use three FDA/EC 1935/2004 approved silicone seals for a pressure-tight seal, featuring an aluminium housing, end covers and a plug with two pipes, the product contact surfaces are stainless steel. Most models are optionally available with inflatable seals to handle even higher pressures.

During the design process of the PTD-II diverter valve, safety was a key starting point, so most sizes of this valve are shock-resistant up to 10 barg, ensuring its durability and reliability. The PTD-II features a comprehensive electro-pneumatic control system that enables quick and faultless diverting.

### AVAILABLE SIZES

PTD-II	50	65	80	100	125	150	200
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## SPTD – SINGLE PIPE PLUG DIVERTER

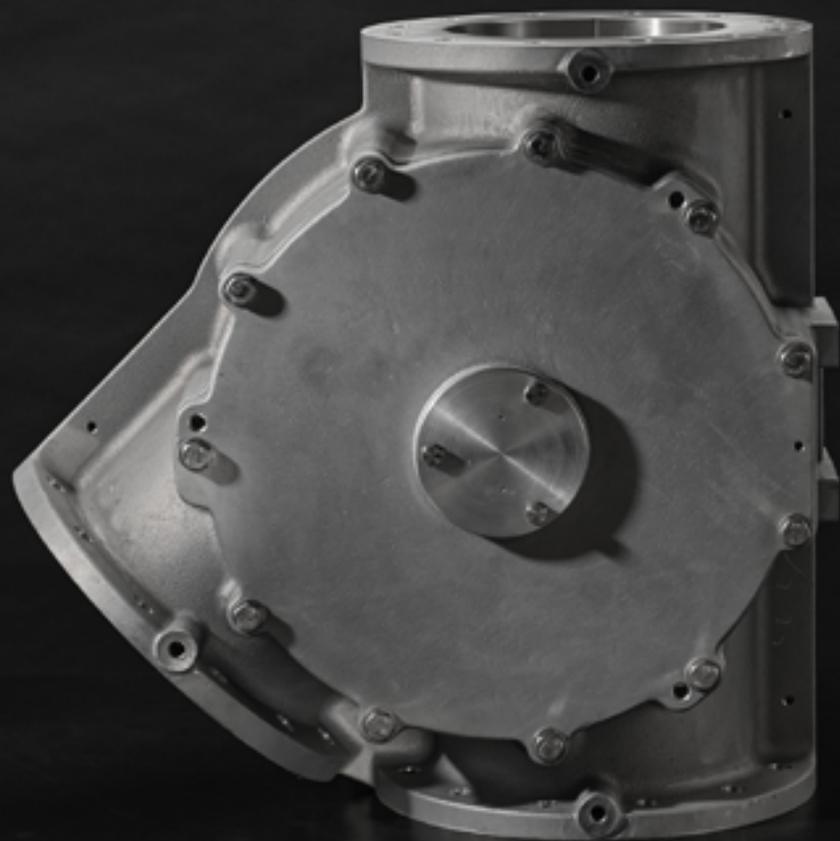
Much loved and relied upon in the plastics industry is the Single Pipe Plug diverter. The SPTD diverter valve diverts plastic materials with minimal product degradation in pneumatic conveying systems. Like all DMN-WESTINGHOUSE products, the SPTD is designed for maximum product output and quality. Precision machining, effective sealing, and obstruction-free internal geometry ensure smooth product passage. High throughput levels are possible thanks to the availability of large sizes for the SPTD.

SPTD diverters use two FDA/EC 1935/2004 approved silicone seals for a pressure-tight seal featuring an aluminium housing, end covers, and a stainless-steel plug with one pipe. All models are optionally available with inflatable seals to handle even higher pressures.

Thanks to its user-friendly, fail-safe design, the SPTD diverter valve requires minimal maintenance. This also allows for quick on-site inspection, cleaning, and seal replacement. It can operate with static or inflatable seals at various pressure levels and is pressure shock resistant up to 10 barg. This diverter valve conforms to all current workplace safety legislation because there are no moving parts on the outside.

### AVAILABLE SIZES

SPTD	150	162	200	213	250	267	300	318	350	400
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# CONTACT



## WORLDWIDE DISTRIBUTION NETWORK

We are a global company with sales offices and distributors around the world. With our knowledge and expertise, we provide custom-made solutions and support to meet the unique needs of each customer. For more information and other inquiries, please contact your local sales team or distributor. You can find a complete list of distributors at [dmnwestinghouse.com/distributors](https://dmnwestinghouse.com/distributors).

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