

FREE-FLOW VALVE GATE



FREE-FLOW

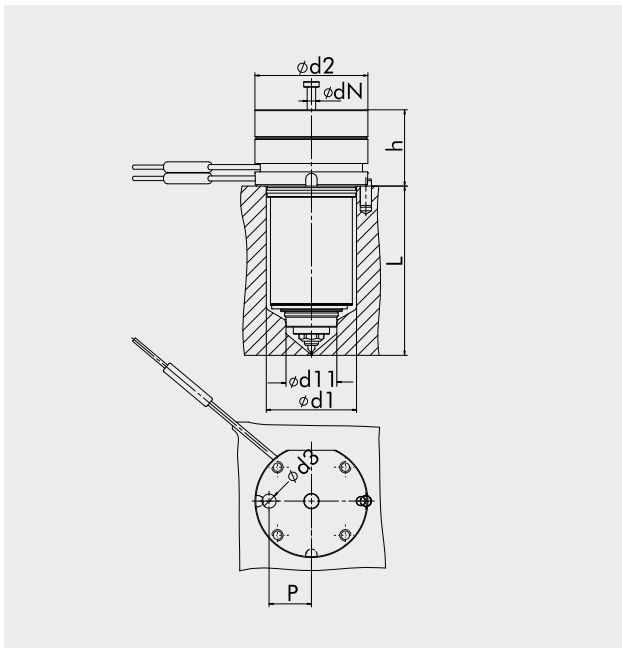
Type 61.950

PRODUCT FEATURES:

- Pin and melt are completely separated from each other during the injection process
- Homogeneous flow front of the melt into the cavity
- No flow shadow behind the valve pin
- Reduced shear and reduced pressure loss in the system
- Higher strength and optimal aesthetics of the plastic part
- Especially suitable for clear parts such as headlamp covers, optical lenses or high-end packaging

KNOW THE FREE-FLOW EFFECT?

For plastic parts that have been injected using valve gate systems, the cracks usually start to form at the gate mark. This is caused by the seam that is formed by the separation of the plastic melt when flowing around the valve pin. Aside from the structural weakness imparted to the component, the separation of the plastic melt in the valve gate nozzle is often responsible for surface defects and aesthetic defects of the plastic part. The HEITEC FREE-FLOW system completely separates the valve pin and the melt during the injection process, thus preventing any seams caused by the melt flowing around the pin.



Type	d1	d2	d3	d11	dN	h	L	P _{min}
61.950.32	32	40	4	18	3	27	50 - 120	15

PC/ABS STUDY, 'LID' PART



HEITEC FREE-FLOW
Homogeneous flow front with even part filling using



STANDARD VG-SYSTEM
Heterogeneous flow front during the injection process

'LID' PART MADE IN A TRIAL MOULD USING A METALLIC MATERIAL USED IN THE COSMETICS INDUSTRY



HEITEC FREE-FLOW
No visible seam



STANDARD VALVE GATE SYSTEM
Clearly visible seam

