

PV Polymer Valves & SG-V Die Heads

Pellet quality from the very beginning



Your systems supplier for all pellet shapes

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Polymer valves and die heads are used for controlled discharge of melt directly downstream of the reactor – in both continuous and batch pelletizing operation. Although positioned at the initial stage of the process, they strongly influence the final product quality.

YOUR BENEFITS WITH SG-V:

- Absolutely uniform and homogeneous melt distribution
- High throughput at low pressure consumption and short dwell time
- Consistent throughput and pressure build-up by die length compensation
- Small amount of start-up material
- Rheologically optimized product channels
- Short purging time for batch changes
- Die scraper for automatic system start-up

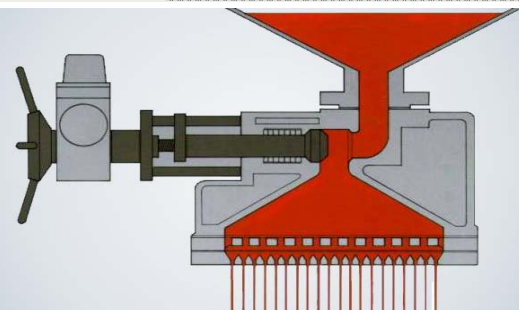
YOUR BENEFITS WITH PV:

- Metallic seal of the piston, vacuum tight
- Design pressure up to 160 bar
- Compact design, short product channels, no dead spots, small volume
- No oxidation of melt in the reactor

OPTIONS:

- Automatic shut-off technology for die-plates at batch operation by
 - Shut-off slide valve (e.g. PA 6.6) or
 - Freezing technique (e.g. PET)
- Tempering liquid, electric or with steam
- Valve drive electric, hydraulic or manual
- Die-plate quick exchange through pre-heating chamber and unloading station

TECHNICAL DATA	PV 070	PV 090	PV 110	
Nominal diameter [mm]	70	90	110	
Allocated to die head	SG-V 300	SG-V 600	SG-V 900/1200	
Design pressure [bar]	160/25 (conti/batch)			
Design temperature [°C]	350			
	SG-V 300	SG-V 600	SG-V 900	SG-V 1200
Strand count (5 mm pitch)	60	120	180	240
Strand count (7.5 mm pitch)	40	80	120	160
Design pressure [bar]	160/25 (conti/batch)			
Design temperature [°C]	350			



Principle: polymer valve and die head



Die head SG-V 900 with scraper



Melt outlet at die plate

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