

MVG55 Valve Gate

Assembly Overview

IMPORTANT!!

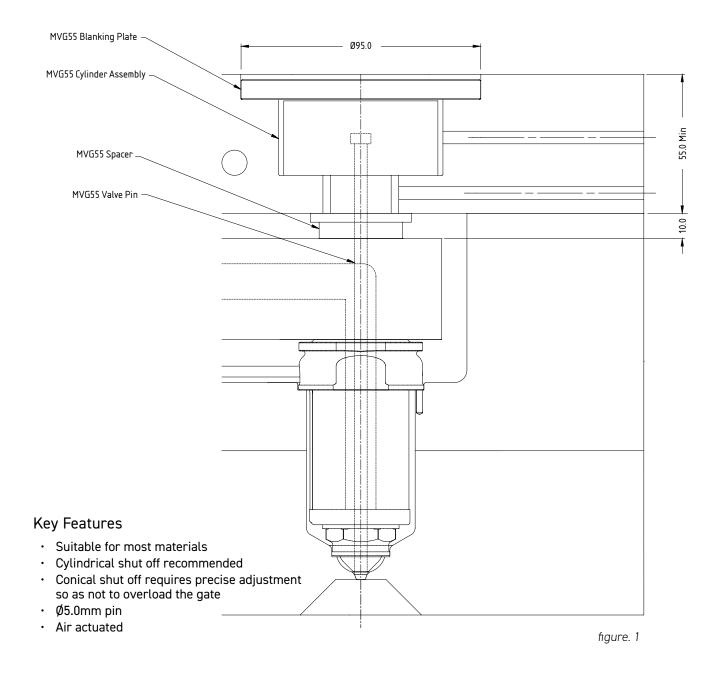
The back plate must be cooled and must not exceed 100°C.

The cylinder should be in the closed position at all times except during injection and packing.

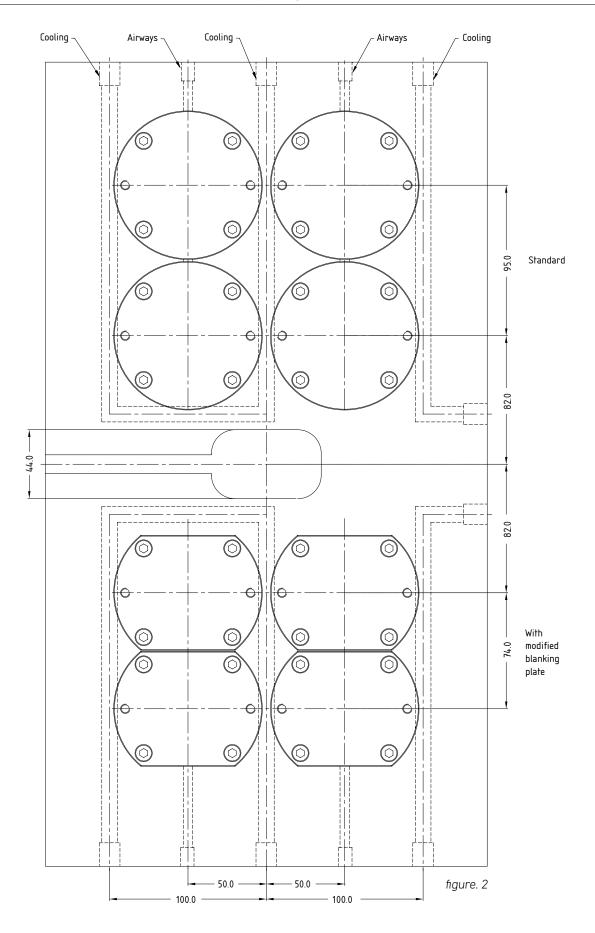
Air quality: Filtered to 40 μM and lubricated

Minimum air: pressure 4 Bar

Maximum air: pressure 10 Bar



Spacing Layout

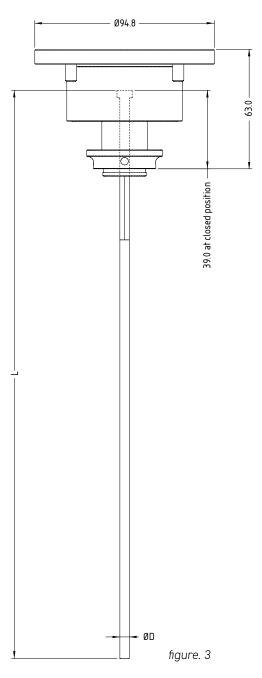


MVG55 Overall Dimensions

Note: Pins are supplied in standard length and must be cut to required length before installation.

Pins can be supplied finished ready to use by Mastip

ightarrow Refer to page MVG55-6 Pin Calculations section to calculate required final pin lengths



Nozzle Compatibility								
Description	Description Nozzle		Nozzle Length	Supplied Pin Size				
MVG55-P1 Headed Pin	BX27	0V/TV	75 - 450	Ø5.0				



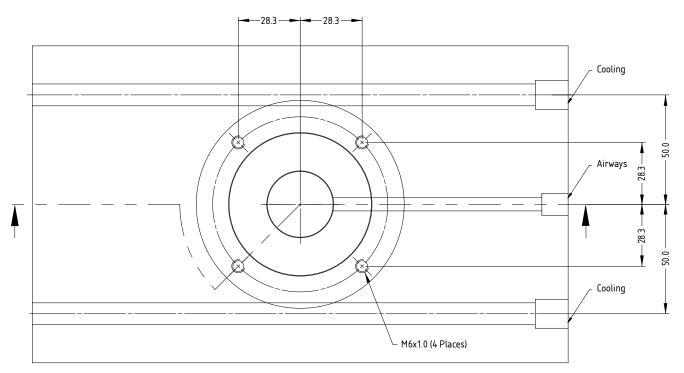
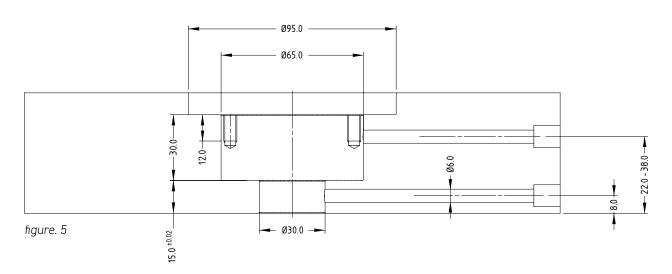


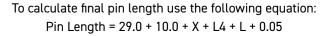
figure. 4

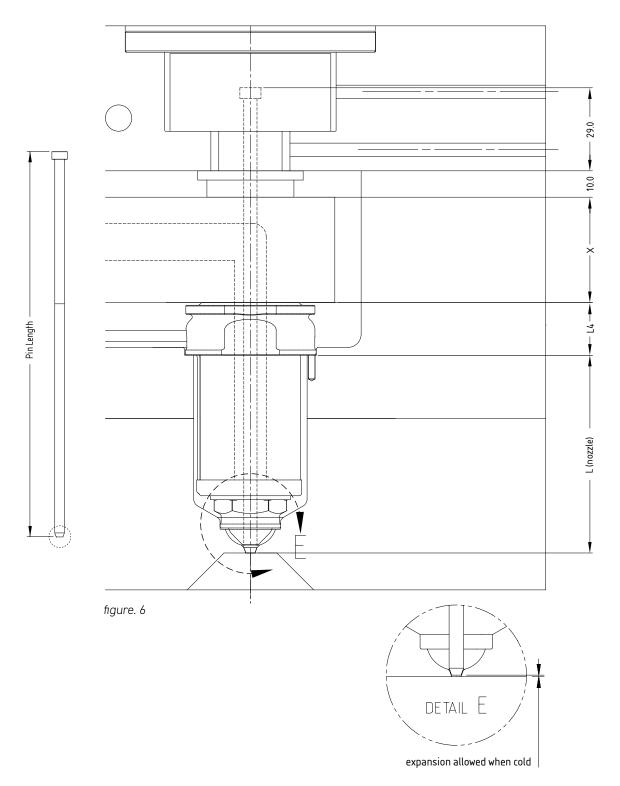


MVG55 Valve Gate

Pin Details

Caution: The gap between the gate and the pin in a hot state is critical. If the gap is too large there will be a poor gate vestige and drooling from the nozzle may occur. If the gap is too small, the pin can strike the gate and may decrease the gate life.





Conical and Cylindrical Valve Gate Recommendations

	Conical Valve Gate ¹	Cylindrical Valve Gate		
Gate Quality	***	***		
Pin Cooling	***	*		
Filled Materials	*	***		
Material with Small Moulding Window	*	***		
Ease of Pin Setup	*	***		
Ease of Gate Manufacture	***	**		
Gate Life	***	*		

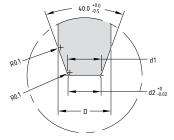
Key	Value	
*	Lowest Rating	
***	Highest Rating	

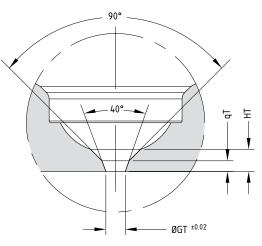
¹ Conical Valve Gates by arrangement with Mastip Engineering and Applications Teams

Conical Valve Gate

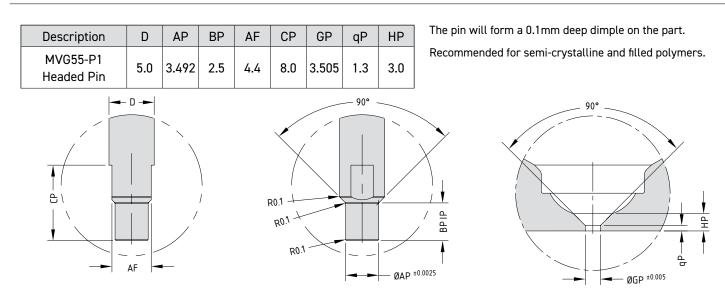
Description	D	d1	d2	AT	GT	qT	HT
MVG55-P1 Headed Pin	5.0	3.5	3.45	3.5	3.5	2.0	3.0

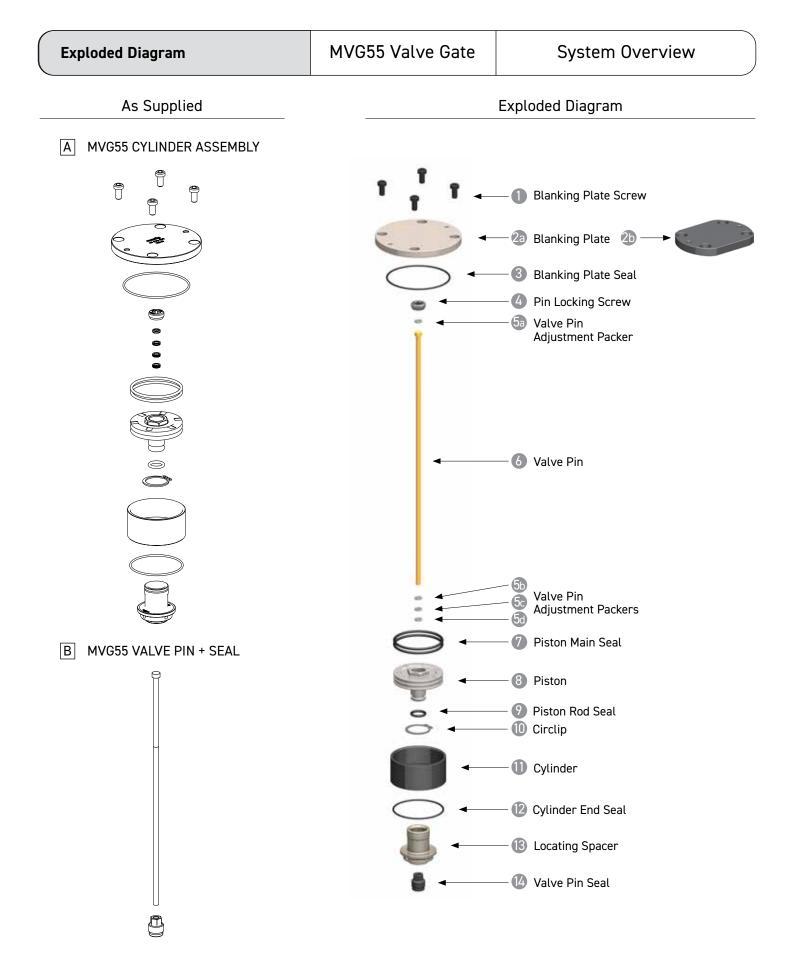
Conical Valve Gates by arrangement with Mastip Engineering and Applications Teams The pin will form a 0.1mm deep dimple on the part. Pin and gate to be lapped to ensure clean shutoff. Recommended for amorphous polymers.





Cylindrical Valve Gate





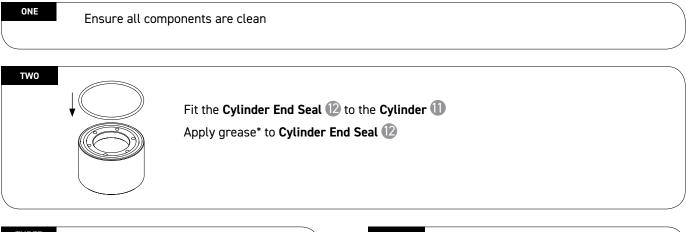
Installation and Pin Adjustment Guide

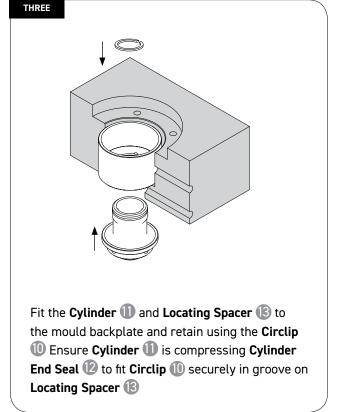
PRE INSTALLATION

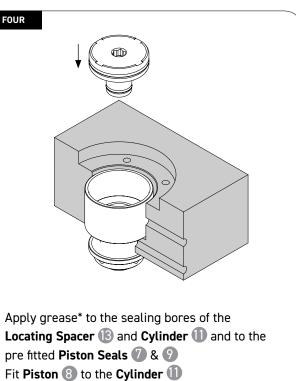
- 1. Verify the actuator pockets and air circuits are machined in the back plate as shown in figure 5.
- 2. Ensure there are no sharp edges or burrs in the actuator pockets.
- 3. Ensure the actuator pocket and air circuits are clean.
- 4. Cut pins to length and profile end to conical or cylindrical form (refer nozzle approval drawing)
- 5. Assemble the fixed half of the mould including hot runner nozzles and manifold excluding backplate.
 - ightarrow Refer to the Technical Specifications section in the Technical Guide

Pin and seal are a matched set and must remain paired.

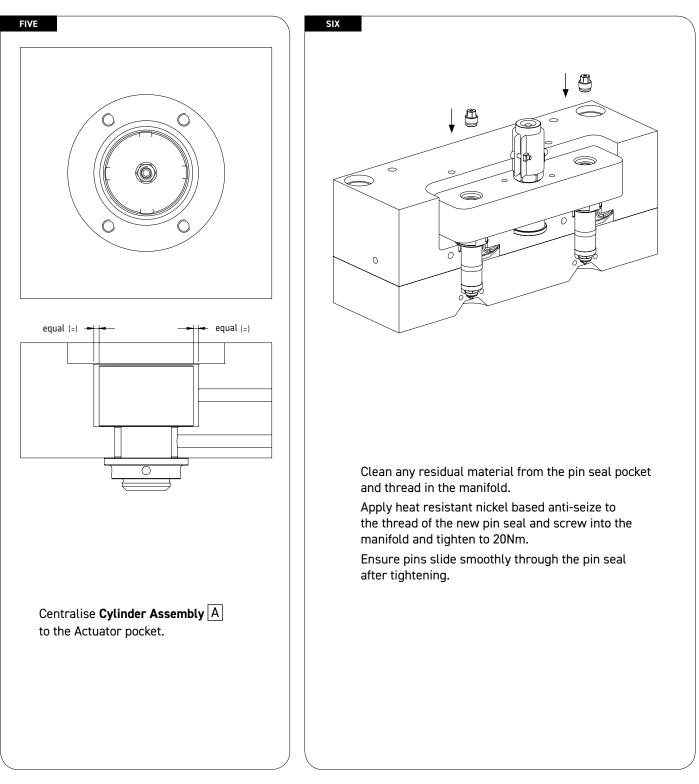
INSTALLATION

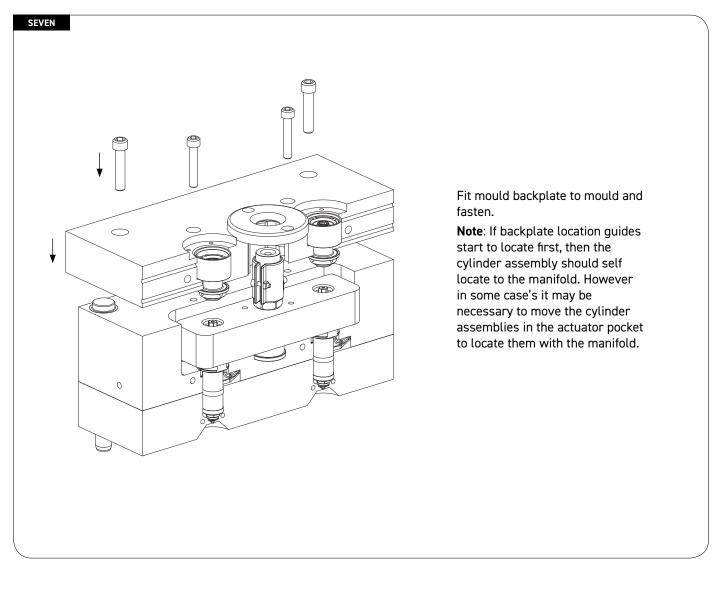


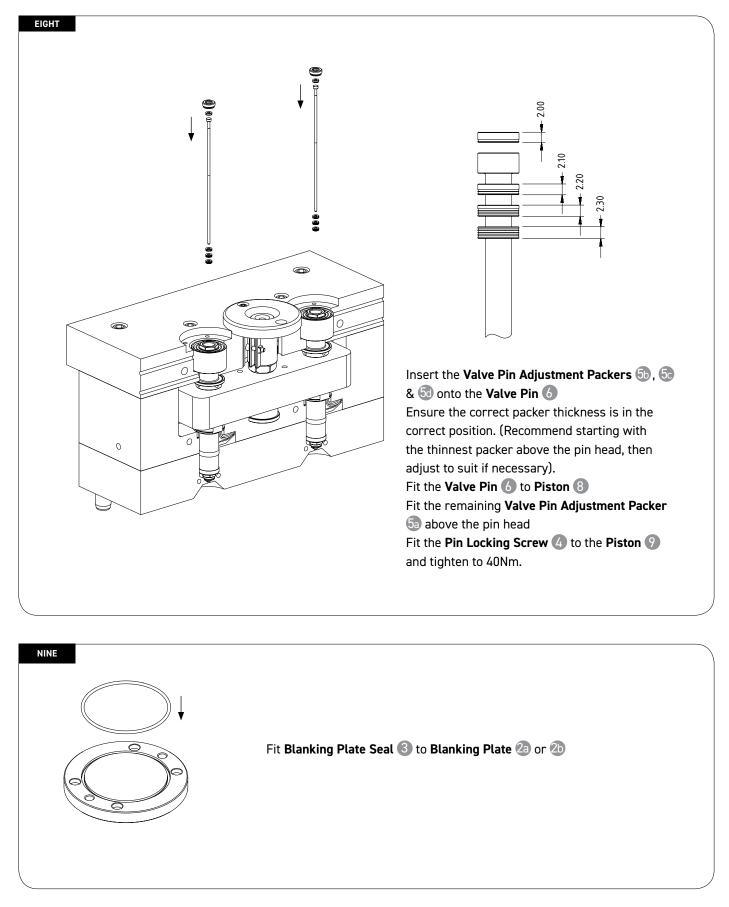


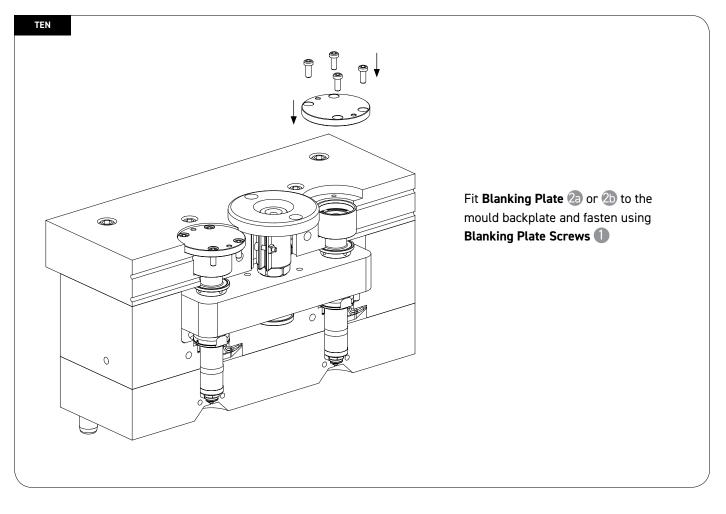


^{*} Mastip recommends using high temperature silicon grease

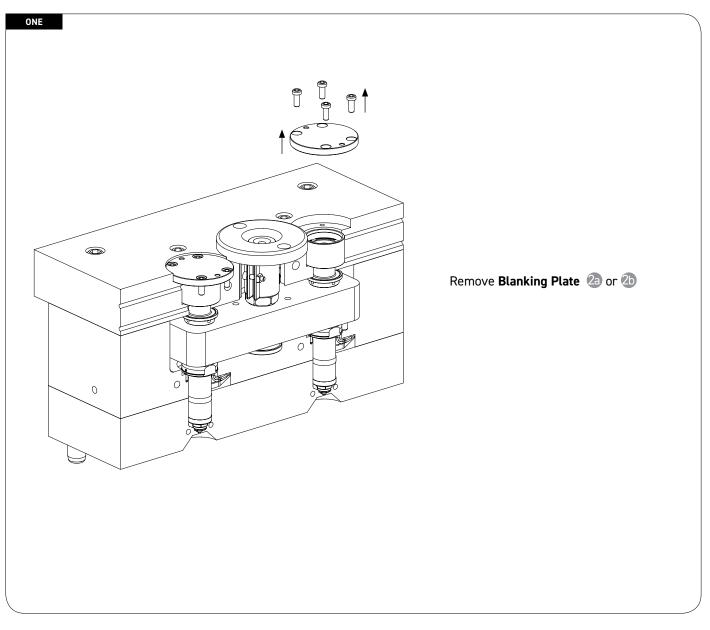


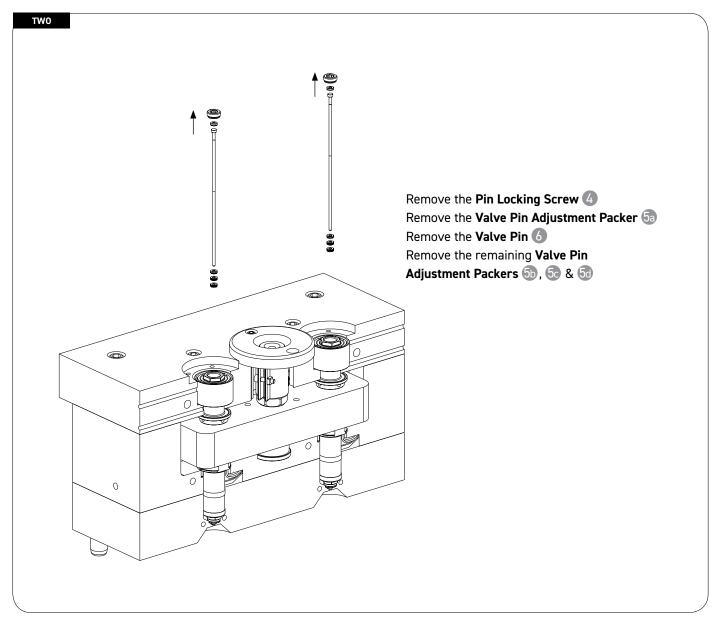


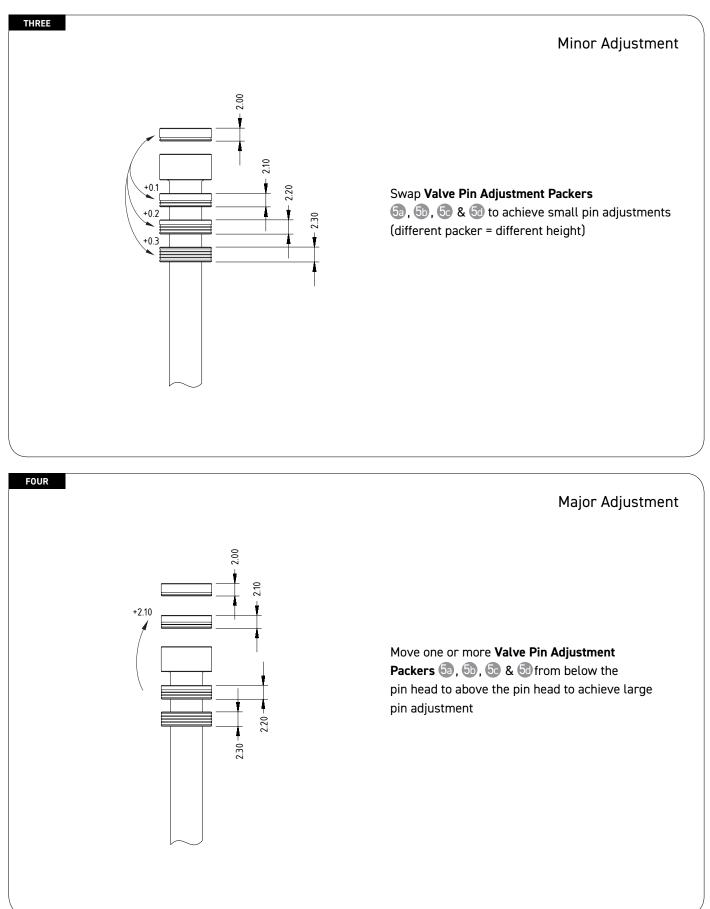


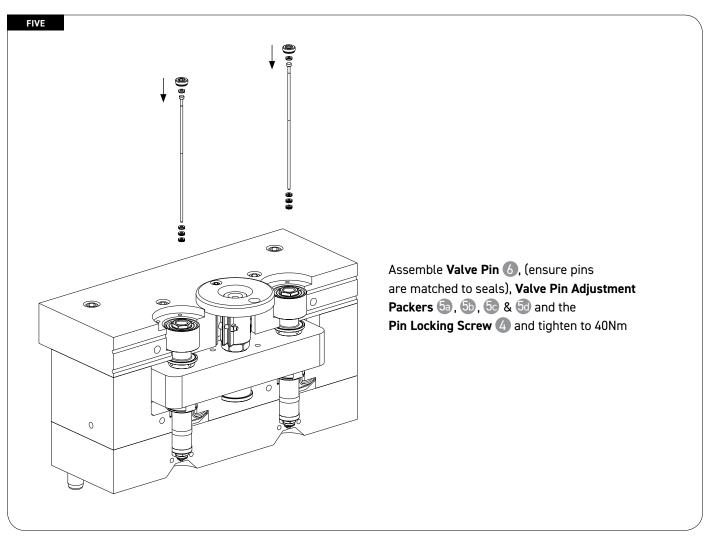


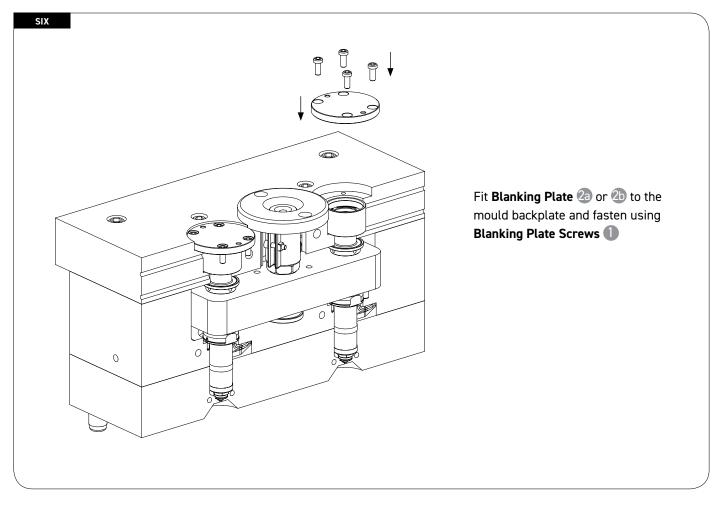
PIN HEIGHT ADJUSTMENT













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