

Integrated Engineering Solution

# TINA SINGLE VALVE

**YUDO**

# TINA SINGLE VALVE

## 1.SINGEL VALVE develop purpose

Current SINGEL VALVE III has frequent trouble with transparent & white color and engineering resin due to heat balance through whole nozzle. To overcome current trouble of SINGEL VALVE III YUDO CHINA developed TINA Single Valve system

### 1) Current trouble of SINGEL VALVE III

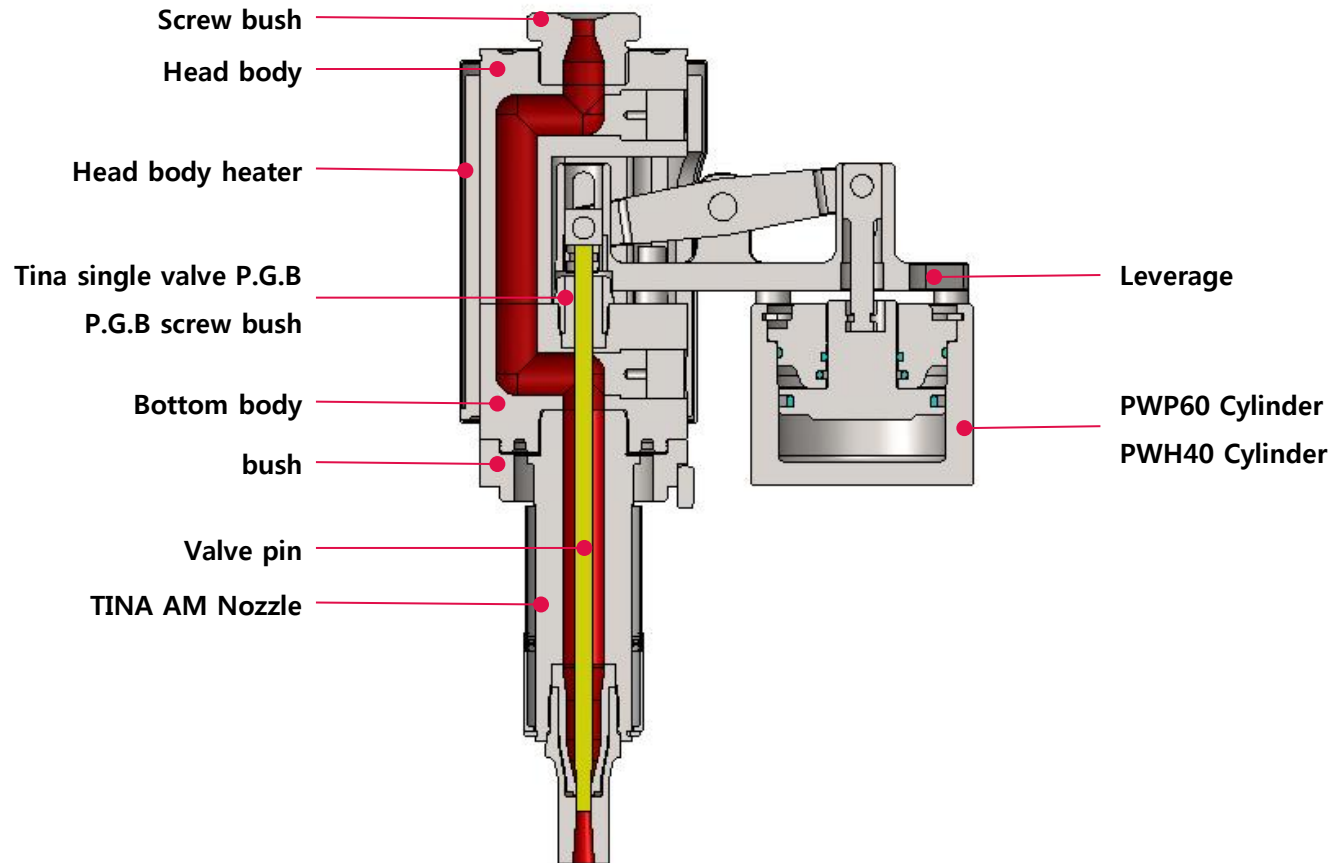
- High injection temp. – Setting injection temperature for engineering plastic is too high to compare with normal system, it higher 20~30 degree.
- Discolor or black spot – Due to not balanced temperature through whole flow channel
- O-rings are easily damaged

### 2) Cause of SINGEL VALVE III

- Head body heater capacity is not enough due to has non-heated section close cylinder
- Narrow inside flow channel
- Cylinder is exposure to heat from head body heater

# TINA SINGLE VALVE

## 2. TINA SINGLE VALVE Structure

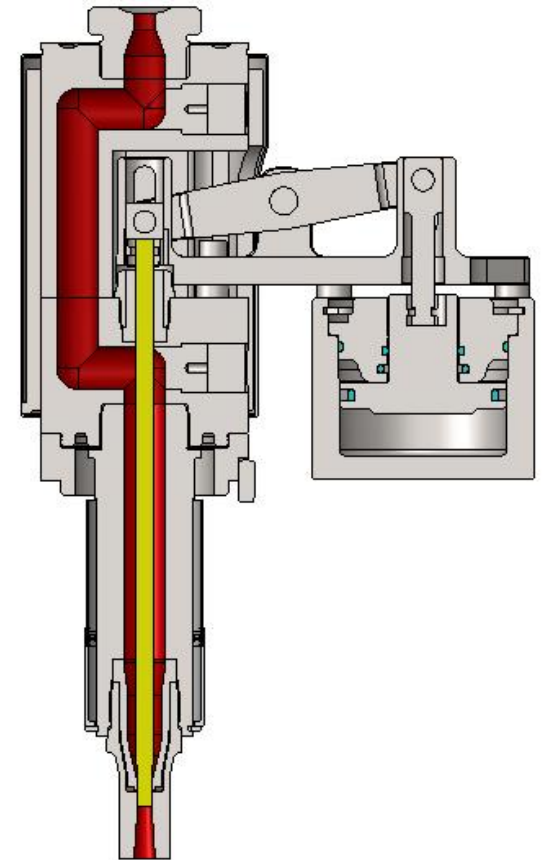


# TINA SINGLE VALVE

## 3. TINA SINGLE VALVE Advantage

1) Same flow channel size through whole nozzle

System	Flow channel	Valve pin	Nozzle
TINA S/V 10	Ø10	Ø4	TINA AM 10 Nozzle
TINA S/V 15	Ø15	Ø6	TINA AM 15 Nozzle
TINA S/V 15	Ø22	Ø8	TINA AM 22 Nozzle

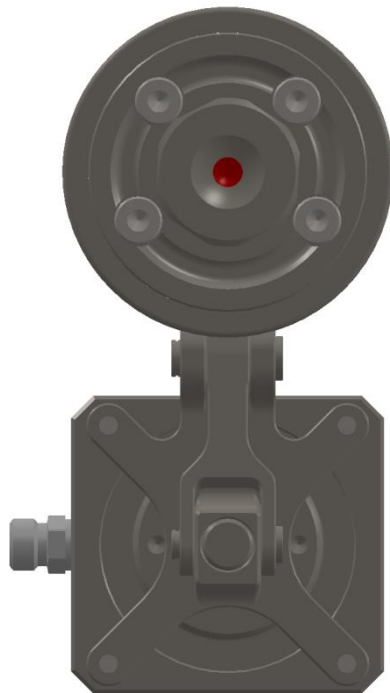


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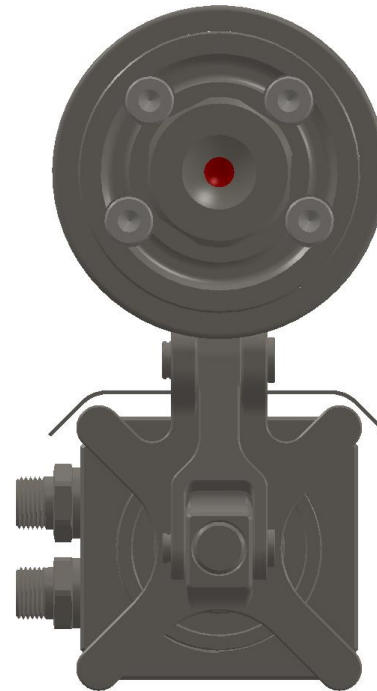
## 3. TINA SINGLE VALVE Advantage

2) Support both pneumatic and hydraulic.

- Changeable Cylinder PWP60(Pneumatic), PWH40(Hydraulic)



PWP60 Cylinder



PWH40 Cylinder

# TINA SINGLE VALVE

## 3. TINA SINGLE VALVE Advantage

- 3) To compare with SINGLE VALVE III, injection temp. is lower by 20°C
  - Less heat loss due to heater wrap all head body and bottom
- 4) Standard TINA AM NOZZLE
  - Same nozzle standard with TINA AM.  
compatible with TINA AM stock
- 5) TINA AM AL-HEATER, superior heat balance and no wires  
(1 Step T-HEATER, 2~3 Step AL-HEATER)
- 6) Independent CYLINDER
  - Long O-ring life time, easy maintenance
- 7) Applied heat treated N/L BUSH
  - Easy maintenance and long life
- 8) No limitation of nozzle length

