

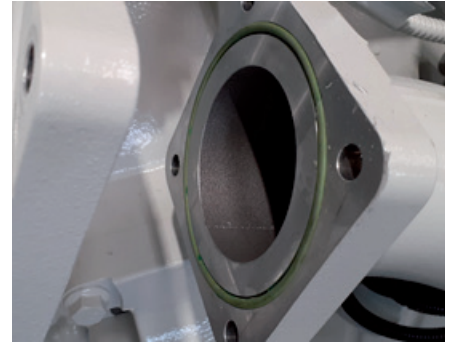
## Product Update

# Throttle Body Changeover

In the course of the continuous improvement process of the MOTORTECH products, the throttle valves are replaced. As a result, all throttle valves are converted from paper gaskets to O-ring gaskets for improved tightness and durability. For engines that already have a flange gasket, the same throttle is available without the gasket recess. The connecting dimensions to older MOTORTECH throttle valve series are identical.

Improvements that were made on MOTORTECH throttle valves:

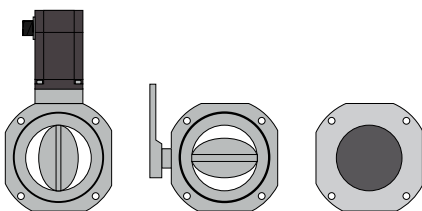
- Improved throttle flap design
- Optimized bearings and sealing rings
- Unification of throttle levers on manual valves (140-series)



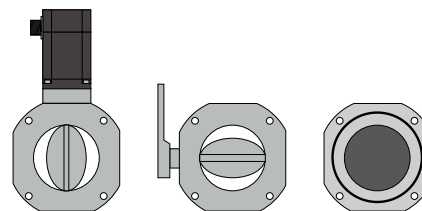
### General Features

- For use on naturally aspirated and turbocharged gas engines
- Use with various types of gas (natural gas, biogas, sewage gas, mine gas, etc.)
- The series 50, 100, 140 and 200 cover a wide range of applications
- Butterfly diameter from 1.65 to 4.92 inch (42 to 125 mm)
- Use of high-temperature ball bearings, designed for low-friction operation
- Additional sealing of the throttle body shaft for installation before and after the turbocharger
- Various variants available with and without O-rings embedded in the housing for flange sealing
- Butterfly and shaft made of stainless steel
- Rigid design for long service life
- Other sizes and custom made designs on request

Throttle body for engines **without** sealing on flange



Throttle body for engines **with** existing sealing on flange



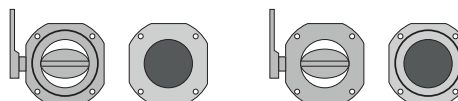
### DISTRIBUTION

|                                    |     |
|------------------------------------|-----|
| Customers / others                 | Yes |
| Representatives and Sales Partners | Yes |
| OEM partners                       | Yes |
| MOTORTECH subsidiaries             | Yes |

## Product Update

### Throttle Bodies

#### Series 50 (Inner Diameter 41-42 mm) – Standard



| P/N             | Description             | Superseded by       |                       |
|-----------------|-------------------------|---------------------|-----------------------|
|                 |                         | Sealing on Throttle | Engine Flange Sealing |
| 30.40.050-42    | Throttle body, ID 42 mm | 30.41.050-42-HT     | 30.41.055-42-HT       |
| 30.40.051-42    | Throttle body, ID 42 mm | 30.41.050-42-HT     | 30.41.055-42-HT       |
| 30.40.051-42-HT | Throttle body, ID 42 mm | 30.41.050-42-HT     | 30.41.055-42-HT       |

#### Series 100 (Inner Diameter 48-68 mm) – Standard

| P/N             | Description             | Superseded by       |                       |
|-----------------|-------------------------|---------------------|-----------------------|
|                 |                         | Sealing on Throttle | Engine Flange Sealing |
| 30.40.100-60    | Throttle body, ID 60 mm | 30.41.100-60-HT     | 30.41.105-60-HT       |
| 30.40.101-60    | Throttle body, ID 60 mm | 30.41.100-60-HT     | 30.41.105-60-HT       |
| 30.40.101-60-HT | Throttle body, ID 60 mm | 30.41.100-60-HT     | 30.41.105-60-HT       |
| 30.40.100-68    | Throttle body, ID 68 mm | 30.41.100-68-HT     | 30.41.105-68-HT       |
| 30.40.101-68    | Throttle body, ID 68 mm | 30.41.100-68-HT     | 30.41.105-68-HT       |
| 30.40.101-68-HT | Throttle body, ID 68 mm | 30.41.100-68-HT     | 30.41.105-68-HT       |

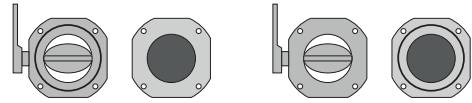
#### Series 140 (Inner Diameter 73-85 mm) – Standard

| P/N             | Description             | Superseded by       |                       |
|-----------------|-------------------------|---------------------|-----------------------|
|                 |                         | Sealing on Throttle | Engine Flange Sealing |
| 30.40.140-75    | Throttle body, ID 75 mm | 30.41.140-75-HT     | 30.41.145-75-HT       |
| 30.40.141-75    | Throttle body, ID 75 mm | 30.41.140-75-HT     | 30.41.145-75-HT       |
| 30.40.141-75-HT | Throttle body, ID 75 mm | 30.41.140-75-HT     | 30.41.145-75-HT       |
| 30.40.140-80    | Throttle body, ID 80 mm | 30.41.140-80-HT     | 30.41.145-80-HT       |
| 30.40.141-80    | Throttle body, ID 80 mm | 30.41.140-80-HT     | 30.41.145-80-HT       |
| 30.40.141-80-HT | Throttle body, ID 80 mm | 30.41.140-80-HT     | 30.41.145-80-HT       |
| 30.40.140-85    | Throttle body, ID 85 mm | 30.41.140-85-HT     | 30.41.145-85-HT       |
| 30.40.141-85    | Throttle body, ID 85 mm | 30.41.140-85-HT     | 30.41.145-85-HT       |
| 30.40.141-85-HT | Throttle body, ID 85 mm | 30.41.140-85-HT     | 30.41.145-85-HT       |

#### DISTRIBUTION

|                                    |     |
|------------------------------------|-----|
| Customers / others                 | Yes |
| Representatives and Sales Partners | Yes |
| OEM partners                       | Yes |
| MOTORTECH subsidiaries             | Yes |

## Product Update



### Series 150 (Inner Diameter 82-104 mm) – Standard

| P/N              | Description              | Superseded by       |                       |
|------------------|--------------------------|---------------------|-----------------------|
|                  |                          | Sealing on Throttle | Engine Flange Sealing |
| 30.40.150-90     | Throttle body, ID 90 mm  | 30.41.150-90-HT     | 30.41.155-90-HT       |
| 30.40.151-90     | Throttle body, ID 90 mm  | 30.41.150-90-HT     | 30.41.155-90-HT       |
| 30.40.151-90-HT  | Throttle body, ID 90 mm  | 30.41.150-90-HT     | 30.41.155-90-HT       |
| 30.40.150-100    | Throttle body, ID 100 mm | 30.41.150-100-HT    | 30.41.155-100-HT      |
| 30.40.151-100    | Throttle body, ID 100 mm | 30.41.150-100-HT    | 30.41.155-100-HT      |
| 30.40.151-100-HT | Throttle body, ID 100 mm | 30.41.150-100-HT    | 30.41.155-100-HT      |

### Series 200 (Inner Diameter 98-125 mm) – Standard

| P/N              | Description              | Superseded by       |                       |
|------------------|--------------------------|---------------------|-----------------------|
|                  |                          | Sealing on Throttle | Engine Flange Sealing |
| 30.40.200-100    | Throttle body, ID 100 mm | 30.41.200-100-HT    | 30.41.205-100-HT      |
| 30.40.201-100    | Throttle body, ID 100 mm | 30.41.200-100-HT    | 30.41.205-100-HT      |
| 30.40.201-100-HT | Throttle body, ID 100 mm | 30.41.200-100-HT    | 30.41.205-100-HT      |
| 30.40.200-105    | Throttle body, ID 105 mm | 30.41.200-105-HT    | 30.41.205-105-HT      |
| 30.40.201-105    | Throttle body, ID 105 mm | 30.41.200-105-HT    | 30.41.205-105-HT      |
| 30.40.201-105-HT | Throttle body, ID 105 mm | 30.41.200-105-HT    | 30.41.205-105-HT      |
| 30.40.200-110    | Throttle body, ID 110 mm | 30.41.200-110-HT    | 30.41.205-110-HT      |
| 30.40.201-110    | Throttle body, ID 110 mm | 30.41.200-110-HT    | 30.41.205-110-HT      |
| 30.40.201-110-HT | Throttle body, ID 110 mm | 30.41.200-110-HT    | 30.41.205-110-HT      |
| 30.40.200-115    | Throttle body, ID 115 mm | 30.41.200-115-HT    | 30.41.205-115-HT      |
| 30.40.201-115    | Throttle body, ID 115 mm | 30.41.200-115-HT    | 30.41.205-115-HT      |
| 30.40.201-115-HT | Throttle body, ID 115 mm | 30.41.200-115-HT    | 30.41.205-115-HT      |
| 30.40.200-120    | Throttle body, ID 120 mm | 30.41.200-120-HT    | 30.41.205-120-HT      |
| 30.40.201-120    | Throttle body, ID 120 mm | 30.41.200-120-HT    | 30.41.205-120-HT      |
| 30.40.201-120-HT | Throttle body, ID 120 mm | 30.41.200-120-HT    | 30.41.205-120-HT      |
| 30.40.200-125    | Throttle body, ID 125 mm | 30.41.200-125-HT    | 30.41.205-125-HT      |
| 30.40.201-125    | Throttle body, ID 125 mm | 30.41.200-125-HT    | 30.41.205-125-HT      |
| 30.40.201-125-HT | Throttle body, ID 125 mm | 30.41.200-125-HT    | 30.41.205-125-HT      |

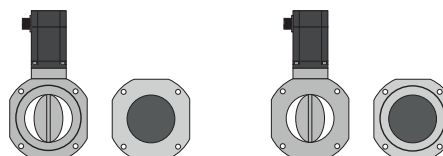
#### DISTRIBUTION

|                                    |     |
|------------------------------------|-----|
| Customers / others                 | Yes |
| Representatives and Sales Partners | Yes |
| OEM partners                       | Yes |
| MOTORTECH subsidiaries             | Yes |

## Product Update

### ITB Throttle Bodies with Integrated Stepper Motor

#### Series 50 (Inner Diameter 41-42 mm) – Standard



| P/N             | Description                                                      | Superseded by       |                       |
|-----------------|------------------------------------------------------------------|---------------------|-----------------------|
|                 |                                                                  | Sealing on Throttle | Engine Flange Sealing |
| 30.42.050-42    | Integrated throttle body, ID 42 mm                               | 30.43.050-42        | 30.43.055-42          |
| 30.42.050-42-HT | Integrated throttle body, ID 42 mm, high temperature application | 30.43.050-42-HT     | 30.43.055-42-HT       |

#### Series 100 (Inner Diameter 48-68 mm) – Standard

| P/N             | Description                                                      | Superseded by       |                       |
|-----------------|------------------------------------------------------------------|---------------------|-----------------------|
|                 |                                                                  | Sealing on Throttle | Engine Flange Sealing |
| 30.42.100-60    | Integrated throttle body, ID 60 mm                               | 30.43.100-60        | 30.43.105-60          |
| 30.42.100-60-HT | Integrated throttle body, ID 60 mm, high temperature application | 30.43.100-60-HT     | 30.43.105-60-HT       |
| 30.42.100-68    | Integrated throttle body, ID 68 mm                               | 30.43.100-68        | 30.43.105-68          |
| 30.42.100-68-HT | Integrated throttle body, ID 68 mm, high temperature application | 30.43.100-68-HT     | 30.43.105-68-HT       |

#### Series 140 (Inner Diameter 73-85 mm) – Standard

| P/N             | Description                                                      | Superseded by       |                       |
|-----------------|------------------------------------------------------------------|---------------------|-----------------------|
|                 |                                                                  | Sealing on Throttle | Engine Flange Sealing |
| 30.42.140-75    | Integrated throttle body, ID 75 mm                               | 30.43.140-75        | 30.43.145-75          |
| 30.42.140-75-HT | Integrated throttle body, ID 75 mm, high temperature application | 30.43.140-75-HT     | 30.43.145-75-HT       |
| 30.42.140-80    | Integrated throttle body, ID 80 mm                               | 30.43.140-80        | 30.43.145-80          |
| 30.42.140-80-HT | Integrated throttle body, ID 80 mm, high temperature application | 30.43.140-80-HT     | 30.43.145-80-HT       |
| 30.42.140-85    | Integrated throttle body, ID 85 mm                               | 30.43.140-85        | 30.43.145-85          |
| 30.42.140-85-HT | Integrated throttle body, ID 85 mm, high temperature application | 30.43.140-85-HT     | 30.43.145-85-HT       |

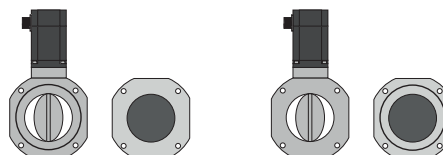
#### Series 150 (Inner Diameter 82-104 mm) – Standard

| P/N              | Description                                                       | Superseded by       |                       |
|------------------|-------------------------------------------------------------------|---------------------|-----------------------|
|                  |                                                                   | Sealing on Throttle | Engine Flange Sealing |
| 30.42.150-90     | Integrated throttle body, ID 90 mm                                | 30.43.150-90        | 30.43.155-90          |
| 30.42.150-90-HT  | Integrated throttle body, ID 90 mm, high temperature application  | 30.43.150-90-HT     | 30.43.155-90-HT       |
| 30.42.150-100    | Integrated throttle body, ID 100 mm                               | 30.43.150-100       | 30.43.155-100         |
| 30.42.150-100-HT | Integrated throttle body, ID 100 mm, high temperature application | 30.43.150-100-HT    | 30.43.155-100-HT      |

#### DISTRIBUTION

|                                    |     |
|------------------------------------|-----|
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| OEM partners                       | Yes |
| MOTORTECH subsidiaries             | Yes |

## Product Update



### Series 200 (Inner Diameter 98-125 mm) – Standard

| P/N              | Description                                                       | Superseded by       |                       |
|------------------|-------------------------------------------------------------------|---------------------|-----------------------|
|                  |                                                                   | Sealing on Throttle | Engine Flange Sealing |
| 30.42.200-100    | Integrated throttle body, ID 100 mm                               | 30.43.200-100       | 30.43.205-100         |
| 30.42.200-100-HT | Integrated throttle body, ID 100 mm, high temperature application | 30.43.200-100-HT    | 30.43.205-100-HT      |
| 30.42.200-105    | Integrated throttle body, ID 105 mm                               | 30.43.200-105       | 30.43.205-105         |
| 30.42.200-105-HT | Integrated throttle body, ID 105 mm, high temperature application | 30.43.200-105-HT    | 30.43.205-105-HT      |
| 30.42.200-110    | Integrated throttle body, ID 110 mm                               | 30.43.200-110       | 30.43.205-110         |
| 30.42.200-110-HT | Integrated throttle body, ID 110 mm, high temperature application | 30.43.200-110-HT    | 30.43.205-110-HT      |
| 30.42.200-115    | Integrated throttle body, ID 115 mm                               | 30.43.200-115       | 30.43.205-115         |
| 30.42.200-115-HT | Integrated throttle body, ID 115 mm, high temperature application | 30.43.200-115-HT    | 30.43.205-115-HT      |
| 30.42.200-120    | Integrated throttle body, ID 120 mm                               | 30.43.200-120       | 30.43.205-120         |
| 30.42.200-120-HT | Integrated throttle body, ID 120 mm, high temperature application | 30.43.200-120-HT    | 30.43.205-120-HT      |
| 30.42.200-125    | Integrated throttle body, ID 125 mm                               | 30.43.200-125       | 30.43.205-125         |
| 30.42.200-125-HT | Integrated throttle body, ID 125 mm, high temperature application | 30.43.200-125-HT    | 30.43.205-125-HT      |

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