

## DI 5/XH, DI 5/H diverters



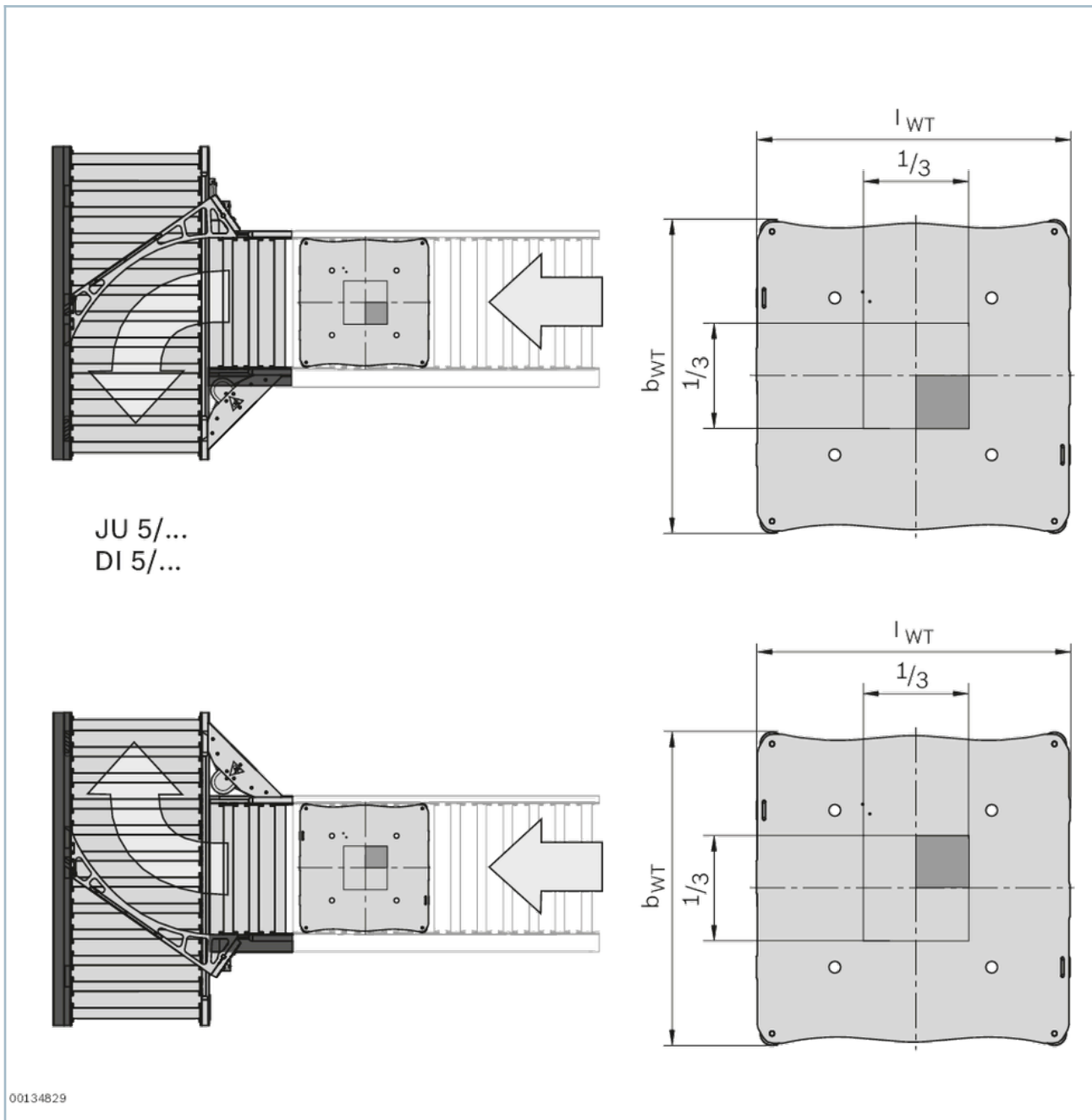
- The diverter is a ready-for-operation module for branching transport of workpiece pallets
- The king shaft installation for the main or secondary section can be installed on either side
- The diverter is controlled as an active element via a pneumatic cylinder ( $p = 5 - 6 \text{ bar}$ )
- **Note:** The diverter is not suitable for accumulation operation. For permissible loads, see table (under order details).

- Reversible operation possible
- Accumulation operation not permitted
- Support profile made of anodized aluminum
- Lateral guide profile made of steel, polymer, or aluminum in an anodized aluminum support
- Driven via king shaft with bevel gears made of sintered metal
- Roller spacing  $p = 130$
- Full rollers
- $m_G$  Up to 300 kg (at  $v = 9 \text{ m/min}$ )
- Pneumatic push-in fitting: 6 mm

## Product description

With the illustrated gravity center position transport problems may occur at the transition from the secondary section to the main section.

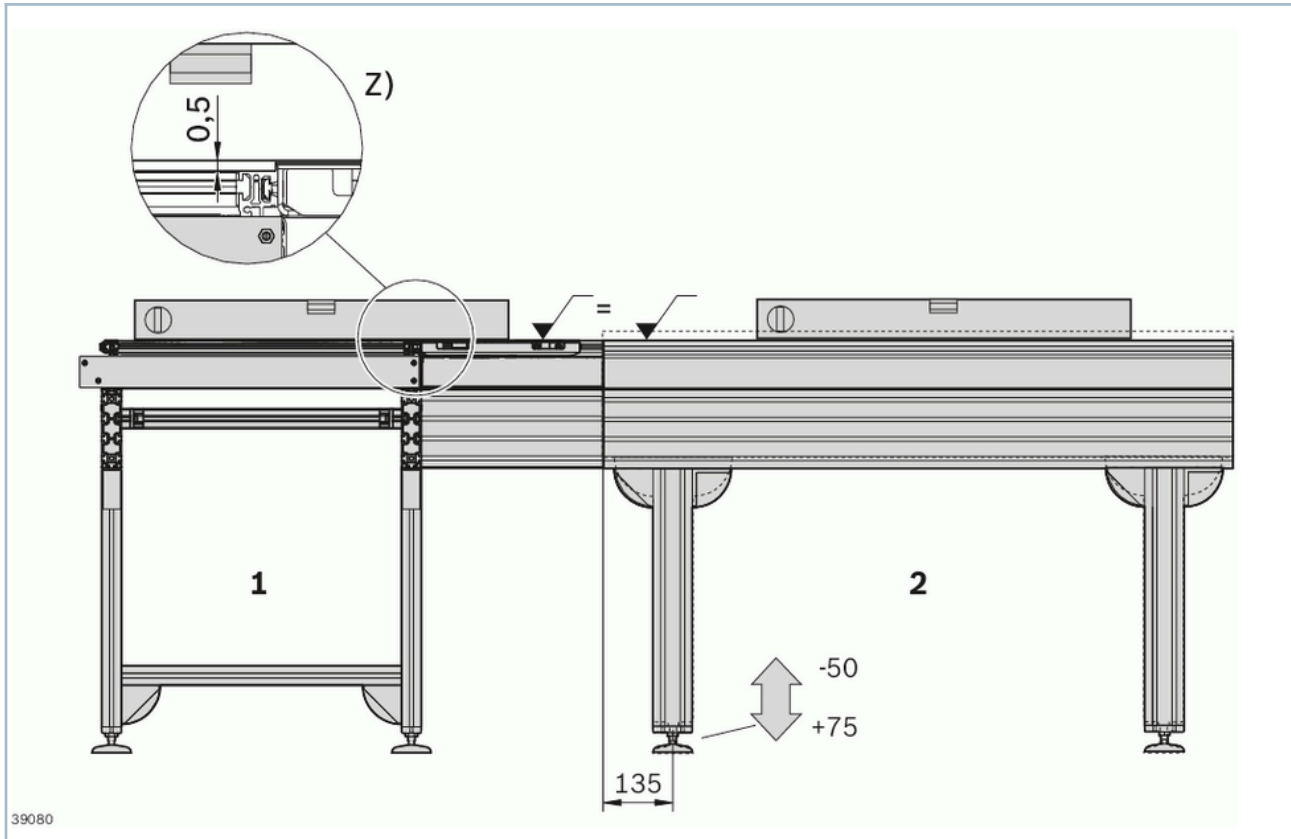
### Limits for the permissible gravity center position for junctions and diverters



Sensor application matrix

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## Technical data

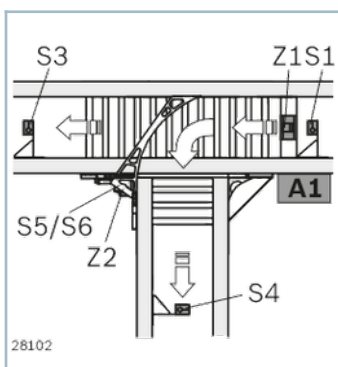


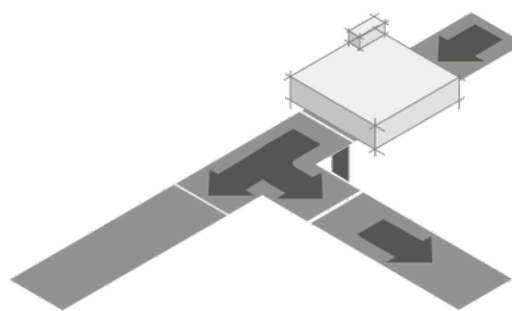
## 1 Main section

## 2Secondary section

ZTransportation height difference

## Symbols/Circuit diagrams

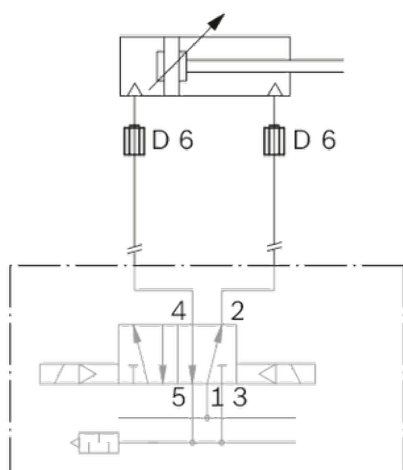




- S1 = WT at VE (Z1)
- S3 = WT behind main section diverter
- S4 = WT behind secondary section diverter
- S5 = Diverter open
- S6 = Diverter closed
- Y2 = Diverter (Z2)

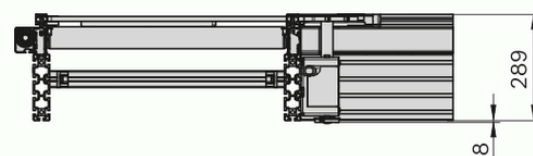
Y1 = Stop gate (Z1)

A1 = Identification system with straight-ahead signal

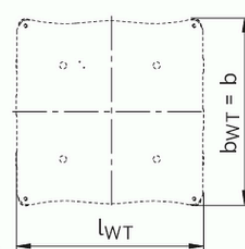
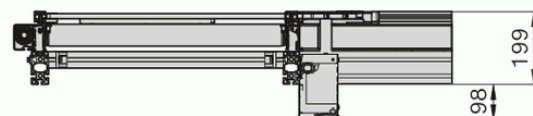


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## Dimensions



DI 5/H



DI 5/H: 3 842 998 528

38780

$l_4$  = length of secondary section and width of main section

7)  $l_4$  = length of secondary section and width of main section

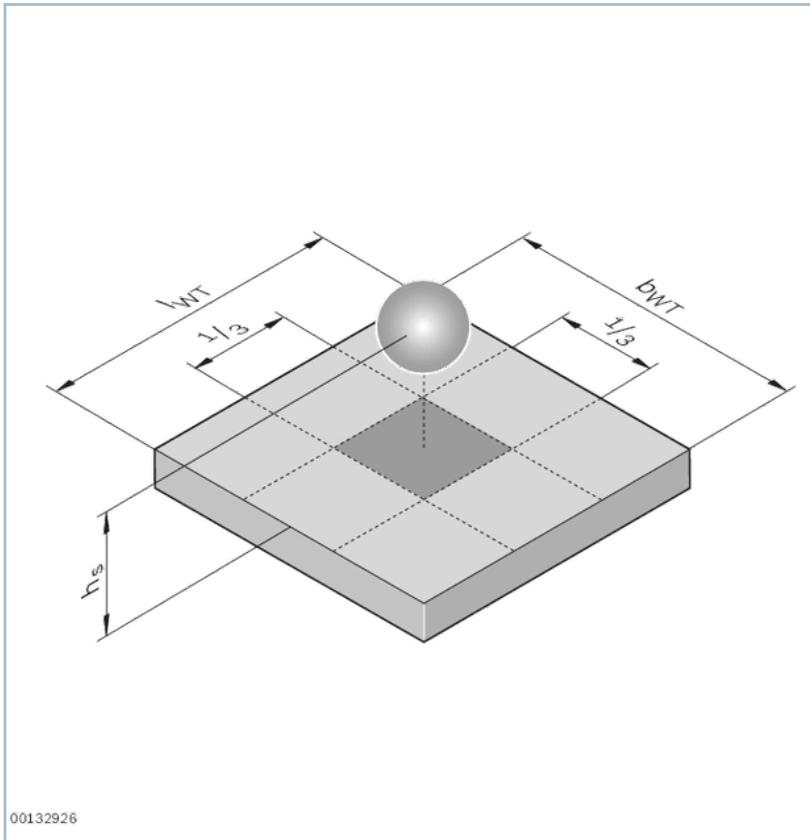
# Information

## Permissible gravity center position

In order to absorb acceleration forces without any problems when separating and changing the direction of the pallets (in curves, when changing to transverse conveyors), the location of the load center position on the workpiece pallet must be noted.

Generally we recommend that:

- 1 the load should be positioned in the center of the workpiece pallet
- 2 the load center position<sub>s</sub> should not exceed  $\frac{1}{3} b_{WT}$  (with  $b_{WT} \leq l_{WT}$ ) in height



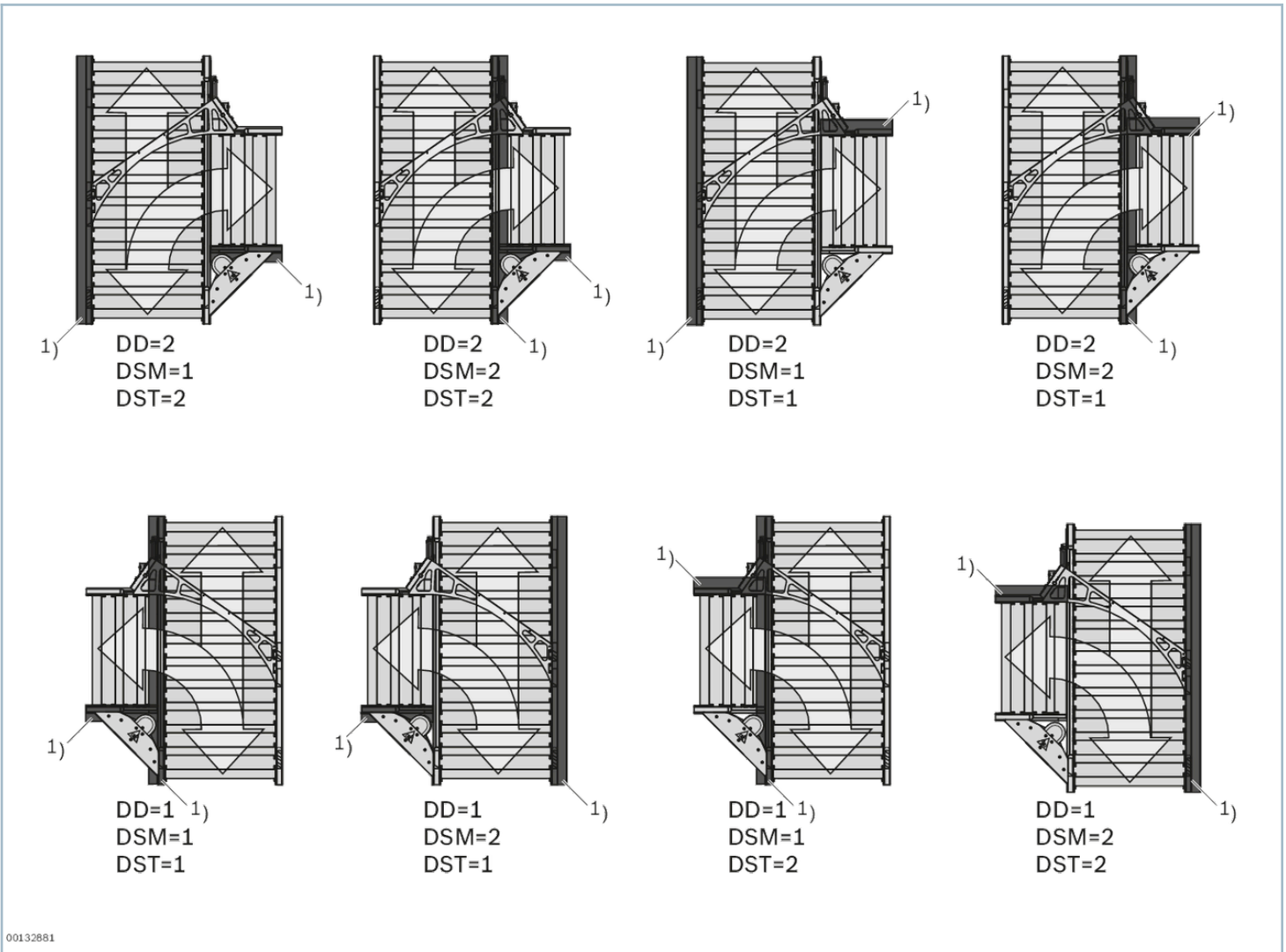
## Delivery notes

## Condition of Delivery

|                  |                  |                                                                                      |
|------------------|------------------|--------------------------------------------------------------------------------------|
| DI 5/XH diverter | Ready-to-install | Optional: Protective covers mounted (protective covers cannot be ordered separately) |
| DI 5/H diverter  |                  |                                                                                      |

# Ordering codes

## Order examples



1) Drive side

## Permissible loads

| $m_G^{1)}$ | $v_N$   |
|------------|---------|
| (kg)       | (m/min) |
| Max. 260   | 12      |
| Max. 300   | 9       |

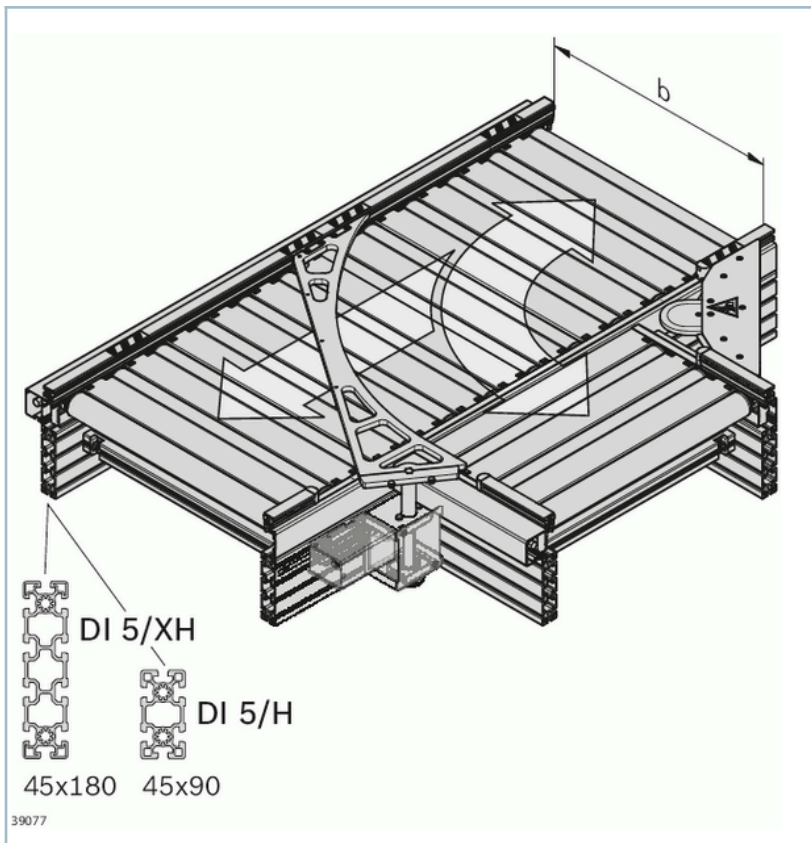
Higher weights available on request

Can be adapted to different conveyance speeds.

Diverter arm position inquiry on request

1)  $m_G$  = overall mass of workpiece pallet





## Order Parameter

| No.        |                                                                               | 3842998529                 | 3842998528 |
|------------|-------------------------------------------------------------------------------|----------------------------|------------|
| b          | Track width                                                                   | 455; 650; 845              |            |
| $l_{WT}$   | Length of workpiece pallet                                                    | 455; 650; 845; 1040        |            |
| $l_T^{1)}$ | Length of workpiece pallet                                                    | 455 mm<br>650 mm<br>845 mm |            |
| N          | Number of rollers in color 1                                                  | 13; 15; 17                 |            |
| LG         | Lateral guide material<br>1: Steel<br>2: Plastic<br>3: Aluminum               | 1; 2; 3                    |            |
| DD         | Diverter direction<br>1: Left<br>2: Right                                     | 1; 2                       |            |
| DSM        | King shaft installation on main section<br>1: Left<br>2: Right                | 1; 2                       |            |
| DST        | King shaft installation on secondary section<br>1: Left<br>2: Right           | 1; 2                       |            |
| TR         | Roller material<br>1: Steel, galvanized<br>2: Steel, nitrocarburized          | 1; 2                       |            |
| SC         | Protective cover<br>1: Without protective covers<br>2: With protective covers | 1; 2                       |            |

1) b = track width

|                  | No.        |
|------------------|------------|
| DI 5/XH diverter | 3842998529 |
| DI 5/H diverter  | 3842998528 |