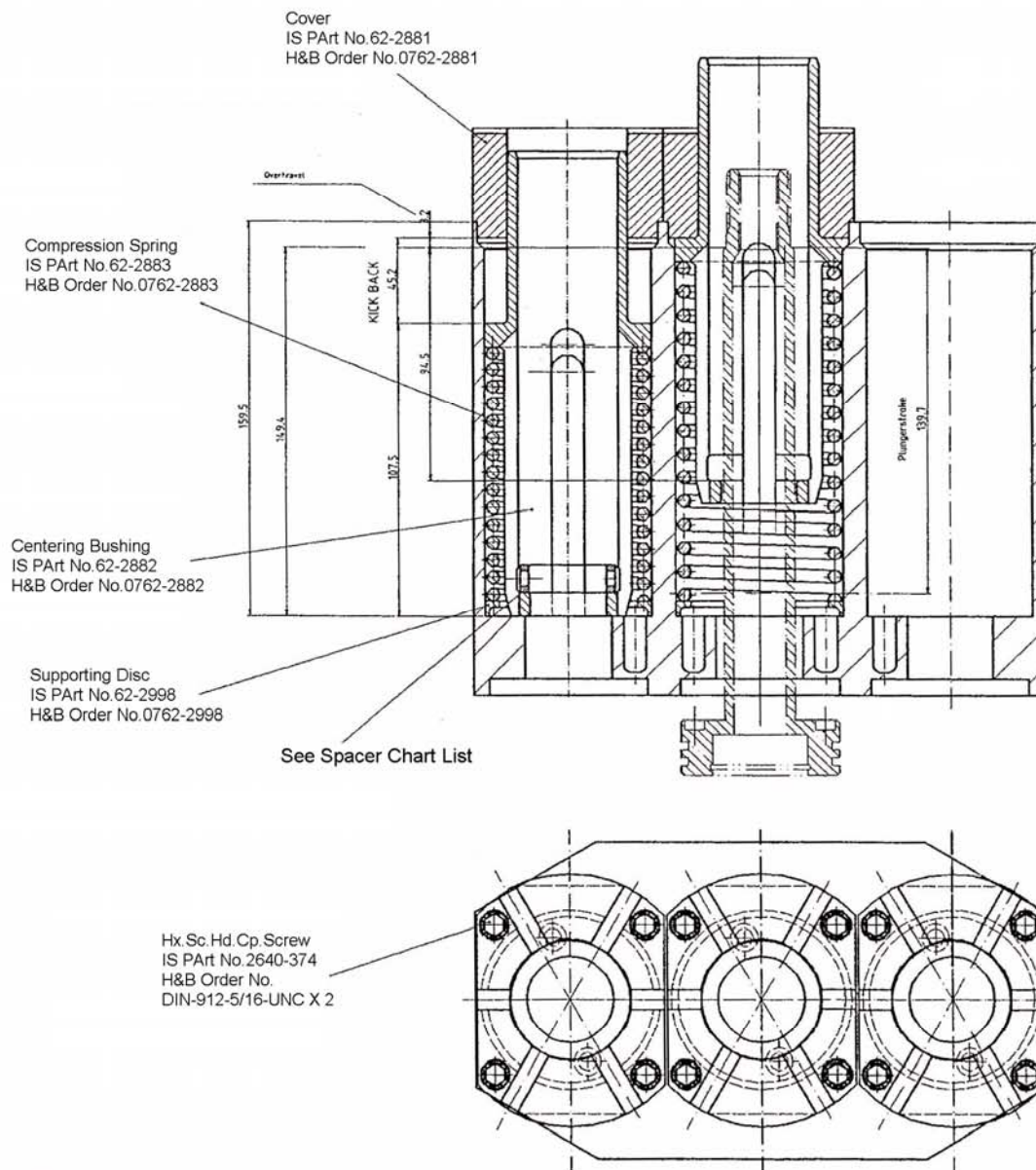


## Hartmann & Bender – Spare Parts – Selection Manual 3” TG

| Page | Description                                                                        | IS Part No.                     | H&B Ident No.               |
|------|------------------------------------------------------------------------------------|---------------------------------|-----------------------------|
| 2    | NNPB Plunger Positioners max. finish 38 mm<br>Quick Change Cartridge Blow & Blow   | 62-3014 Gr.2<br>62-3025 Gr.2    | 0762-3014-3<br>0762-3025-2  |
| 3    | Baffle Arm Standard                                                                | 191-7790 Gr.2                   | 0791-7790-2                 |
| 4    | Mounting Parts Q.C. Baffle                                                         | 200-252 Gr.8                    | 7200-252-8                  |
| 5    | Q.C.Baffle Arm                                                                     | 191-9135 Gr.11                  | 0791-9135-11                |
| 6    | Mounting Parts Q.C. Funnel                                                         | 191-9133 Gr.20                  | 0791-9133-20                |
| 7    | Q.C. Funnel Arm                                                                    | 191-9133 Gr.17                  | 0791-9133-17                |
| 8    | Funnel Arm Standard 54 mm Funnel<br>Funnel Arm Standard 71 mm Funnel               | 191-7787 Gr.2<br>191-7787 Gr.3  | 0791-7787-2<br>0791-7787-3  |
| 9    | Blank Mould Holder Assembly                                                        | 191-6797 Gr.6                   | 0791-6797-6                 |
| 10   | Blow Mould Holder Assembly                                                         | 191-6798 Gr.6                   | 0791-6798-6                 |
| 11   | Special Mould Holder Inserts 3” DIA. Standard                                      |                                 | H&B-02260<br>H&B-02261      |
| 12   | Special Mould Holder Inserts 3 7/8” DIA. Standard                                  |                                 | H&B-02205<br>H&B-02206      |
| 13   | Special Mould Holder Inserts 3 7/8” DIA. Offset                                    |                                 | H&B-02205-A<br>H&B-02206-A  |
| 14   | Neck Ring Holder                                                                   | 19-6792 Gr.1                    | 0791-6792-1                 |
| 15   | Q.C.Take Out Tong Holder Assembly<br>Q.C.Take Out Tong Holder Assembly – Anti Wink | 191-9125 Gr.18<br>210-275 Gr.19 | 0791-9125-18<br>7210-275-19 |
| 16   | Take Out Tong Holders                                                              | 191-8319 Gr.1                   | 0791-8319-1-A               |
| 17   | Technical Bulletin for Take Out Tong Holders                                       | 191-8319                        | 0791-8319                   |
| 18   | Take Out Tong Holders “ Anti Wink “                                                | 191-9535 Gr.2                   | 0791-9535-2                 |
| 19   | Blow Head Arm Lightweight                                                          | 191-7837 Gr.1                   | 0791-7837-1                 |
| 20   | Mounting Parts Q.C. Blow Head                                                      | 200-200 Gr.1                    | 7200-200-1                  |
| 21   | Q.C. Blow Head Arm                                                                 | 200-202                         | 7200-202                    |

## NNPB Plunger Positioner max.finish 38 mm

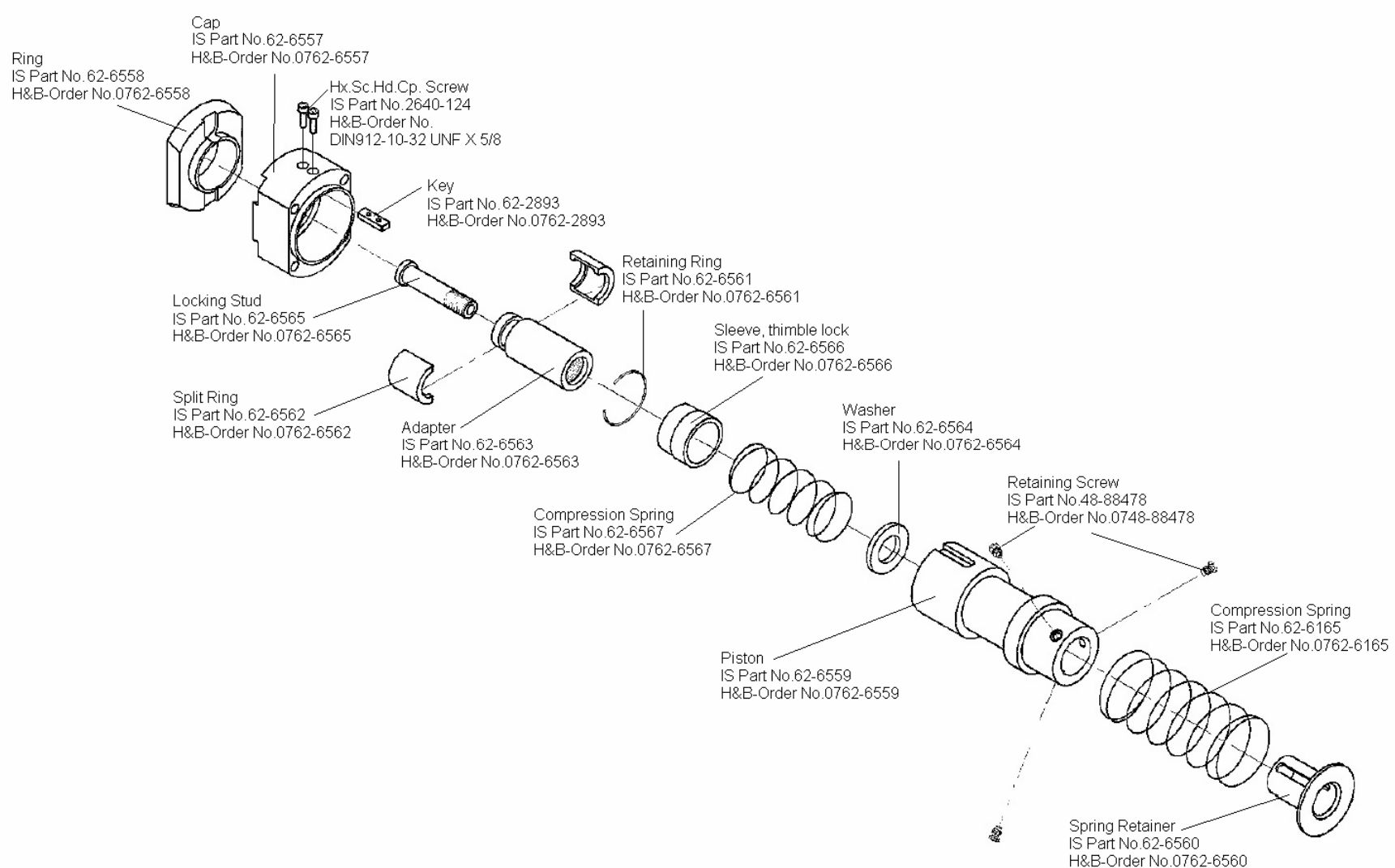
| Description                              | IS-Part No.  | H&B-Order No. |
|------------------------------------------|--------------|---------------|
| NNPB Plunger Positioner max.finish 38 mm | 62-3014 Gr.3 | 0762-3014-3   |



| Spacer Chart List |            |               |
|-------------------|------------|---------------|
| length            | IS Part No | H&B Order No. |
| 7/16"             | 62-2845    | 0762-2845     |
| 1/2"              | 62-2886    | 0762-2886     |
| 9/16"             | 62-2846    | 0762-2846     |
| 5/8"              | 62-2887    | 0762-2887     |
| 3/4"              | 62-2888    | 0762-2888     |
| 1"                | 62-2889    | 0762-2889     |
| 1 1/2"            | 62-2891    | 0762-2891     |

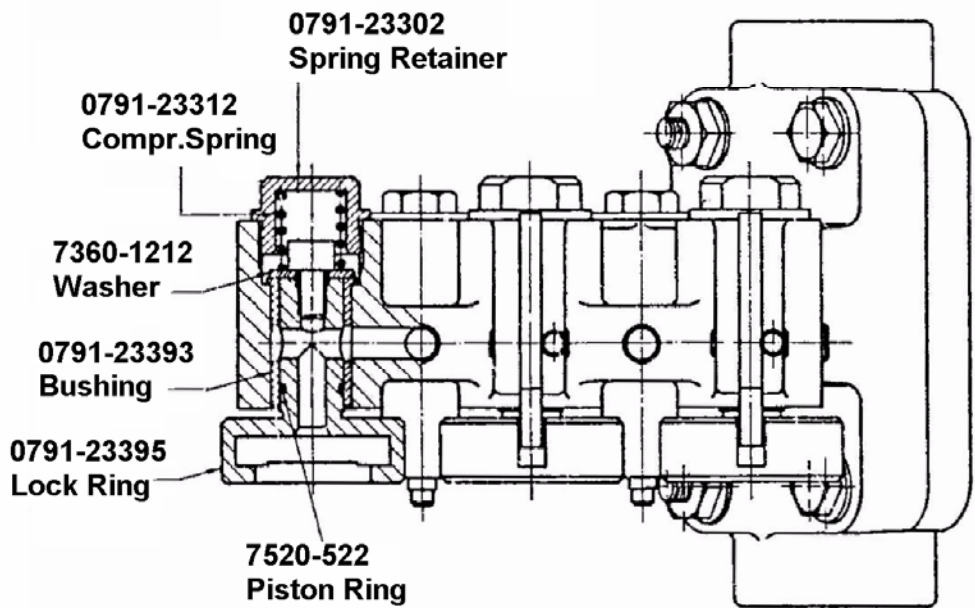
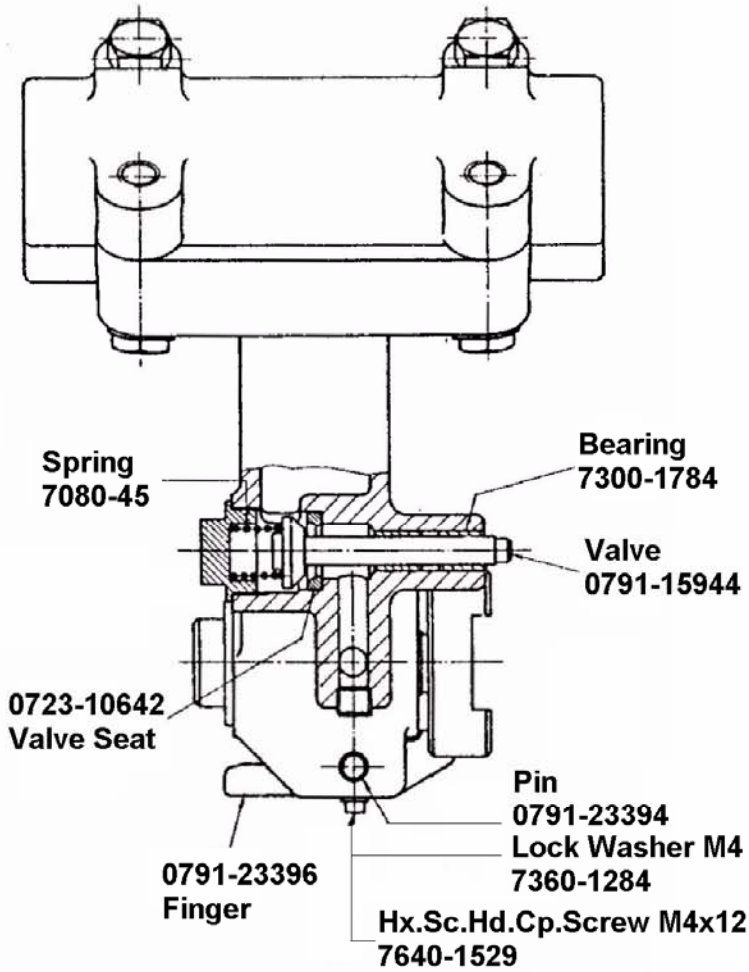
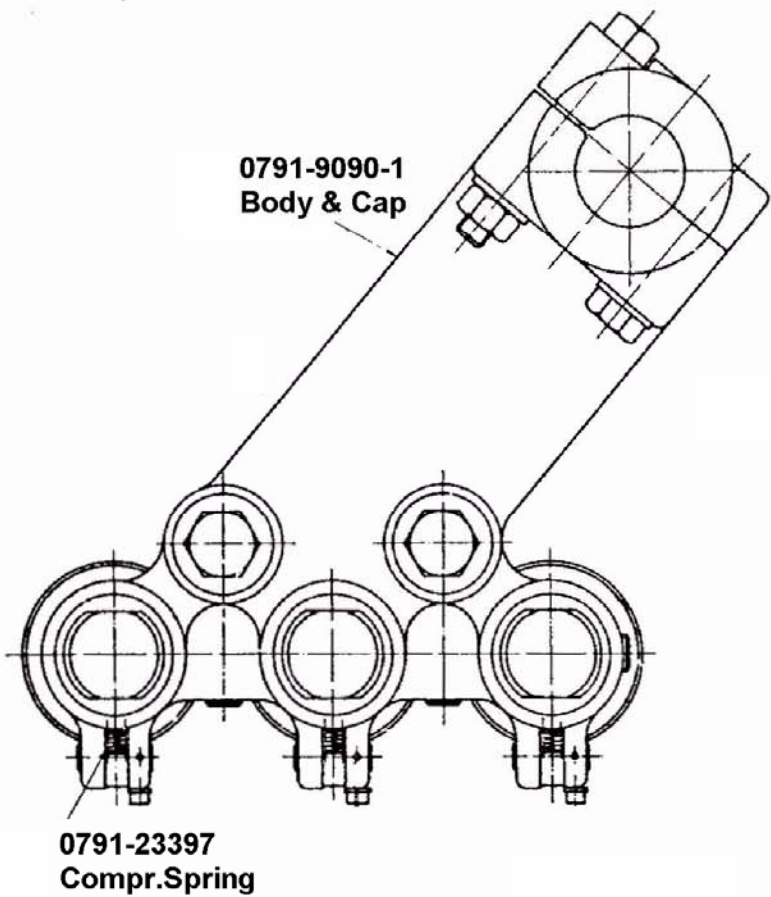
## Quick Change Cartridge Blow & Blow

| Description            | IS-Part No.  | H&B-Order No. |
|------------------------|--------------|---------------|
| Quick Change Cartridge | 62-3025 Gr.2 | 0762-3025-2   |



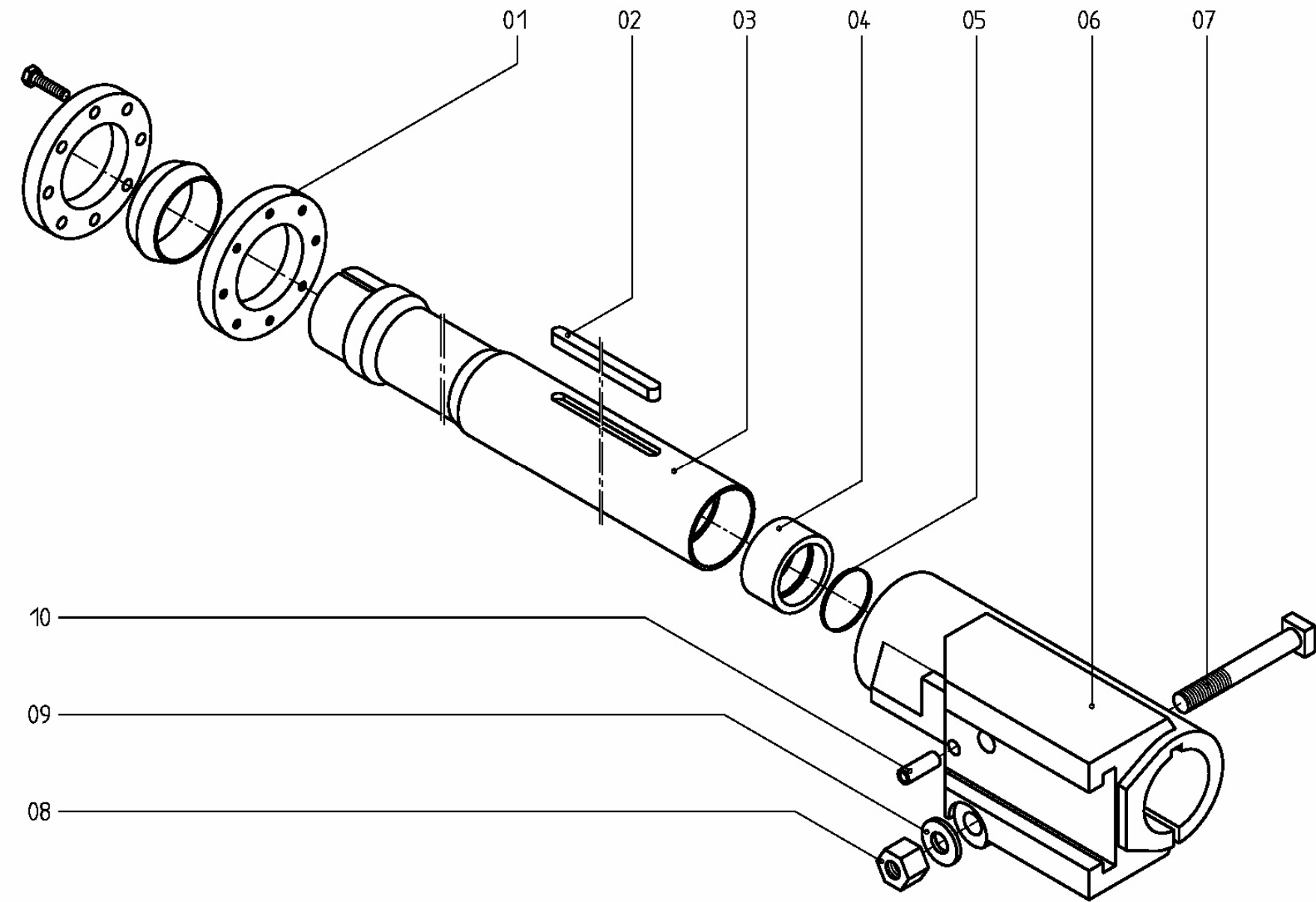
Baffle Arm Standard

| Description               | IS-Part No.   | H&B-Order No. |
|---------------------------|---------------|---------------|
| Baffle Arm Standard TG 3" | 191-7790 Gr.2 | 0791-7790-2   |



Mounting Parts Q.C. Baffle

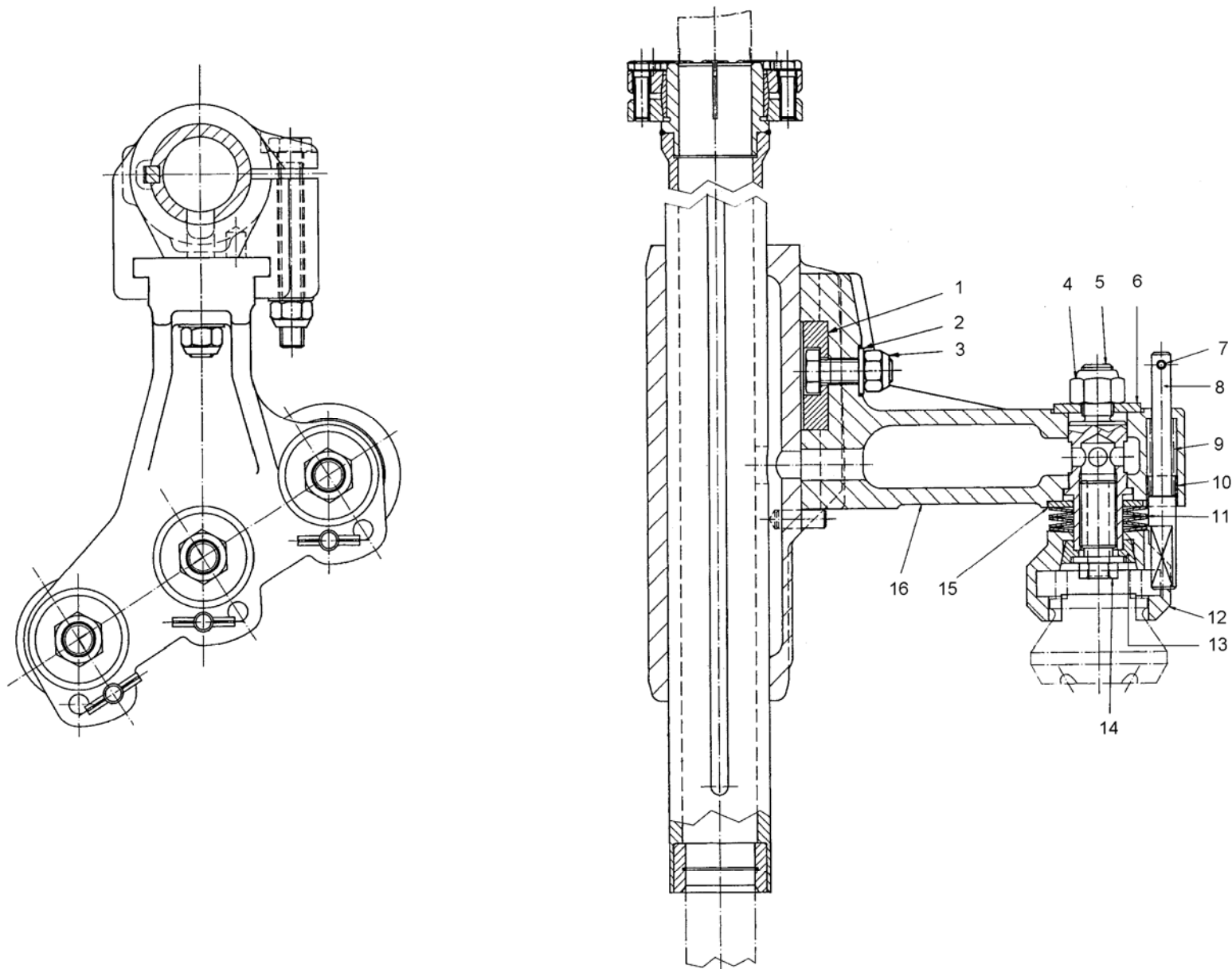
| Description                | IS-Part No.  | H&B-Order No. |
|----------------------------|--------------|---------------|
| Mounting Parts Q.C. Baffle | 200-252 Gr.8 | 7200-252-8    |



|          |                   |      |                                                                                                           |       |               |                                              |       |      |
|----------|-------------------|------|-----------------------------------------------------------------------------------------------------------|-------|---------------|----------------------------------------------|-------|------|
| 1        | Dowel             |      |                                                                                                           |       | 2080-503      | 7080-503                                     | 10    |      |
| 1        | Washer            |      |                                                                                                           |       |               | DIN-125-13                                   | 9     |      |
| 1        | Hex Nut           |      |                                                                                                           |       | 1180-1601     | 7180-1601                                    | 8     |      |
| 2        | Hex. Hd.Cp.Screw  |      |                                                                                                           |       | 1660-880      | DIN-931-1/2 UNC x 3 1/4"                     | 7     |      |
| 1        | Baffle Arm Holder |      |                                                                                                           |       | 191-24427     | 0791-24427                                   | 6     |      |
| 1        | O-Ring, Viton     |      |                                                                                                           |       | 1700-803      | 7700-803                                     | 5     |      |
| 1        | Bushing           |      |                                                                                                           |       | 200-10099     | 7200-10099                                   | 4     |      |
| 1        | Sleeve            |      |                                                                                                           |       | 0200-263 Gr.2 | 7200-263-2                                   | 3     |      |
| 1        | Key               |      |                                                                                                           |       | 7847-317      | 9847-317                                     | 2     |      |
| 1        | Clamping Ring     |      |                                                                                                           |       | 191-9139 Gr.1 | 0791-9139-1                                  | 1     |      |
| Qty.     | Description       |      |                                                                                                           |       | IS Part No.   | H&B Order No.                                | Index | Note |
|          |                   |      |                                                                                                           | Datum | Name          | Benennung :<br><br>Mounting Parts Q.C.Baffle |       |      |
|          |                   |      | Gez.                                                                                                      |       |               |                                              |       |      |
|          |                   |      | Gep.                                                                                                      |       |               |                                              |       |      |
|          |                   |      | Hartmann & Bender<br>Vertriebs – und<br>Produktions - GmbH<br><br>Hauptstraße 70<br>65396 Walluf am Rhein |       |               | Zeichnungs- Nr.:<br><br>7200-252-8           |       |      |
|          |                   |      |                                                                                                           |       |               |                                              |       |      |
|          |                   |      |                                                                                                           |       |               |                                              |       |      |
|          |                   |      |                                                                                                           |       |               |                                              |       |      |
| Änderung | Datum             | Name |                                                                                                           |       |               |                                              |       |      |

Q.C. Baffle Arm TG 3”

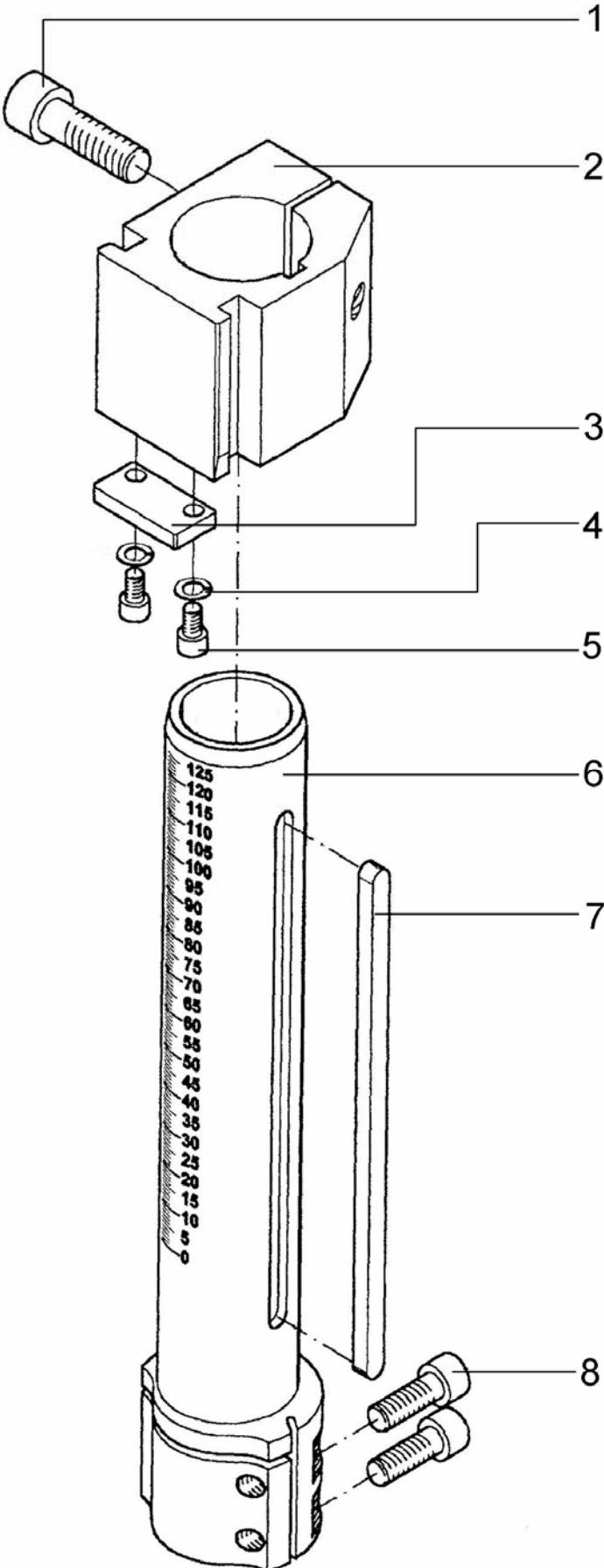
| Description                  | IS-Part No.    | H&B-Order No. |
|------------------------------|----------------|---------------|
| Q.C. Baffle Baffle Arm TG 3” | 191-9135 Gr.11 | 0791-9135-11  |



|  |  |      |                        |             |                                                                                                    |       |                                                                                     |
|--|--|------|------------------------|-------------|----------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|
|  |  | 1    | Baffle Arm Body        | 191-26446   | 0791-26446                                                                                         | 16    |                                                                                     |
|  |  | 3    | Washer                 | 191-26448   | 0791-26448                                                                                         | 15    |                                                                                     |
|  |  | 3    | Screw                  | 191-26453   | 0791-26453                                                                                         | 14    |                                                                                     |
|  |  | 3    | Washer                 | 191-26451   | 0791-26451                                                                                         | 13    |                                                                                     |
|  |  | 3    | Lock Ring 62 mm        | 191-26449   | 0791-26449                                                                                         | 12    |                                                                                     |
|  |  | 15   | Connical Spring Washer | 59-94612    | 0759-94612                                                                                         | 11    |                                                                                     |
|  |  | 6    | Bushing                | 59-20526    | 0759-20526                                                                                         | 10    |                                                                                     |
|  |  | 3    | Compression Spring     | 191-24466   | 0791-24466                                                                                         | 9     |                                                                                     |
|  |  | 3    | Position Pin           | 191-24436   | 0791-24436                                                                                         | 8     |                                                                                     |
|  |  | 3    | Straight Pin           |             | DIN-1481-5X30                                                                                      | 7     |                                                                                     |
|  |  | 3    | Thrust Washer          | 3360-273    | 7360-273                                                                                           | 6     |                                                                                     |
|  |  | 3    | Retainer Stud          | 191-26447   | 0791-26447                                                                                         | 5     |                                                                                     |
|  |  | 3    | Hex Nut 5/8- 11 UNC    | 1180-1650   | DIN-980-5/8UNC                                                                                     | 4     |                                                                                     |
|  |  | 1    | Hex Nut 1/2 - 13 UNC   | 1180-1590   | DIN-934-1/2NC                                                                                      | 3     |                                                                                     |
|  |  | 1    | Flat Washer            | 3360-1203   | 7360-1203                                                                                          | 2     |                                                                                     |
|  |  | 1    | Holding Plate          | 191-24435   | 0791-24435                                                                                         | 1     |                                                                                     |
|  |  | Qty. | Description            | IS Part No. | H&B Order No.                                                                                      | Index | Note                                                                                |
|  |  |      |                        |             | Datum                                                                                              | Name  | Benennung :<br>Baffle Arm<br>Q.C. TG 3“ CTRS                                        |
|  |  |      |                        |             | Gez.                                                                                               |       |                                                                                     |
|  |  |      |                        |             | Gep.                                                                                               |       |                                                                                     |
|  |  |      |                        |             | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein |       | Zeichnungs- Nr.:<br><br>0791-9135-11<br><br>Baffle Lock Ring Device<br>62 mm Flange |
|  |  |      |                        |             |                                                                                                    |       |                                                                                     |
|  |  |      |                        |             |                                                                                                    |       |                                                                                     |
|  |  |      |                        |             |                                                                                                    |       |                                                                                     |
|  |  |      |                        |             |                                                                                                    |       |                                                                                     |
|  |  |      | Zust.                  | Änderung    | Datum                                                                                              | Name  |                                                                                     |

## Mounting Parts Q.C. Funnel

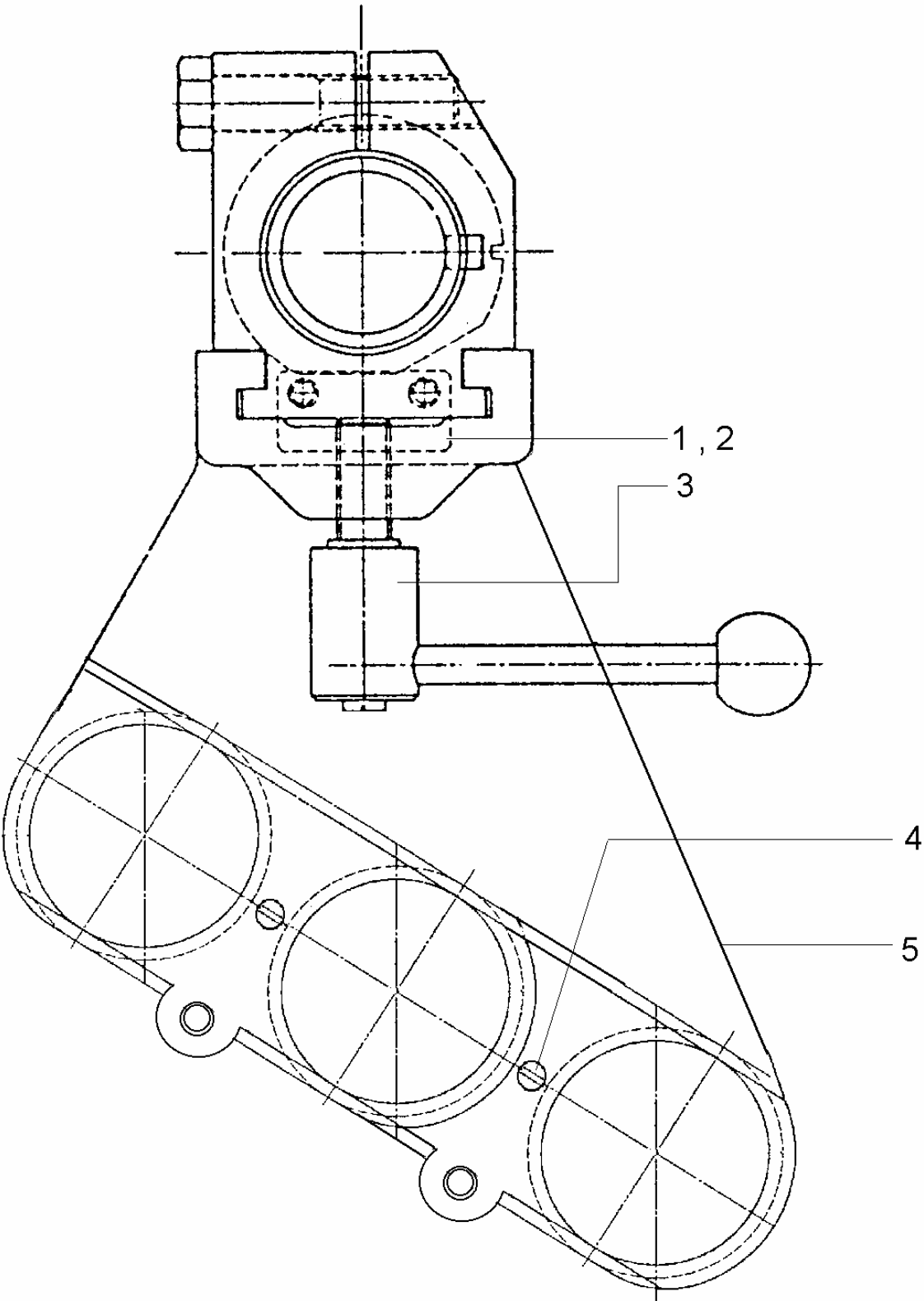
| <b>Description</b>         | <b>IS-Part No.</b> | <b>H&amp;B-Order No.</b> |
|----------------------------|--------------------|--------------------------|
| Mounting Parts Q.C. Funnel | 191-9133 Gr.20     | 0791-9133-20             |



|  |  |      |                       |             |                                                                                                    |       |                                              |
|--|--|------|-----------------------|-------------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------|
|  |  | 2    | Hex Soc. Hd.Cp. Screw | 2640-530    | DIN-912-3/8 UNC x 1”                                                                               | 8     |                                              |
|  |  | 1    | Key 8 x 7 x 210       | 7847-210    | 9747-210                                                                                           | 7     |                                              |
|  |  | 1    | Sleeve                | 191-24464   | 0791-24464                                                                                         | 6     |                                              |
|  |  | 2    | Hex Soc. Hd.Cp. Screw | 2640-130    | DIN-912-1/4 UNC x 3/4"                                                                             | 5     |                                              |
|  |  | 2    | Washer                |             | DIN-125-6,4                                                                                        | 4     |                                              |
|  |  | 1    | Plate                 | 191-24463   | 0791-24463                                                                                         | 3     |                                              |
|  |  | 1    | Clamping Device       | 191-24461   | 0791-24461                                                                                         | 2     |                                              |
|  |  | 1    | Hex Hd.Cp. Screw      | 2660-790    | DIN-931-1/2 UNC x 3 1/4"                                                                           | 1     |                                              |
|  |  | Qty. | Description           | IS Part No. | H&B Order No.                                                                                      | Index | Note                                         |
|  |  |      |                       |             | Datum                                                                                              | Name  | Benennung :<br><br>Mounting Parts Q.C.Funnel |
|  |  |      |                       | Gez.        |                                                                                                    |       |                                              |
|  |  |      |                       | Gep.        |                                                                                                    |       |                                              |
|  |  |      |                       |             | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein |       | Zeichnungs- Nr.:<br><br>0791-9133-20         |
|  |  |      |                       |             |                                                                                                    |       |                                              |
|  |  |      |                       |             |                                                                                                    |       |                                              |
|  |  |      |                       |             |                                                                                                    |       |                                              |
|  |  |      | Zust.                 | Änderung    | Datum                                                                                              | Name  |                                              |

Q.C. Funnel Arms

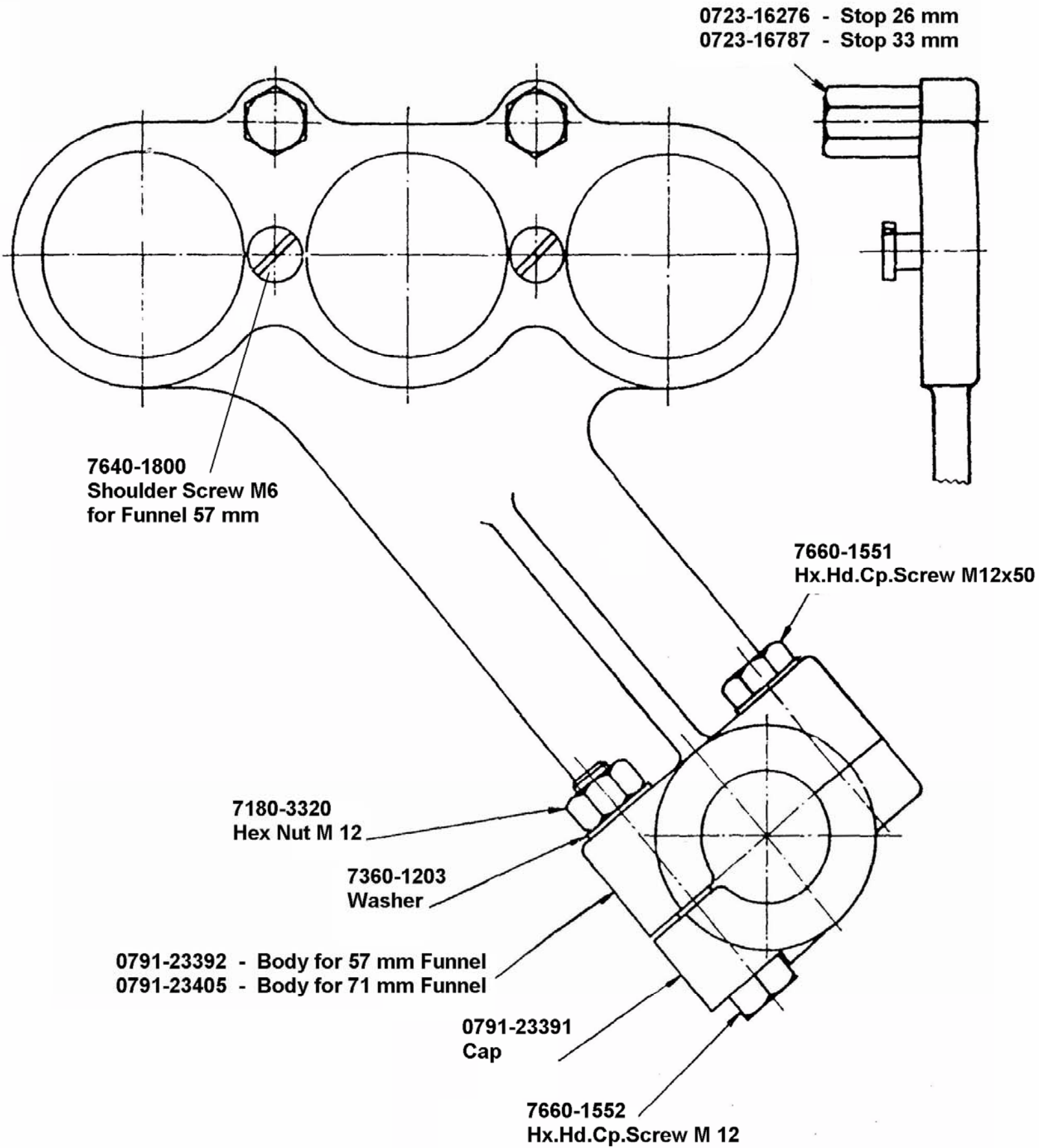
| Description           | IS-Part No.    | H&B-Order No. |
|-----------------------|----------------|---------------|
| Q.C. Funnel Arm TG 3" | 191-9133 Gr.17 | 0791-9133-17  |



|  |  |      |                           |             |                                                                                                    |                  |                            |
|--|--|------|---------------------------|-------------|----------------------------------------------------------------------------------------------------|------------------|----------------------------|
|  |  | 1    | Funnel Arm 57 mm DIA.     |             | 1284-194                                                                                           | 5                |                            |
|  |  | 2    | Shoulder Screw M 6 X 7.5  | 2640-1800   | 9640-1800                                                                                          | 4                |                            |
|  |  | 1    | Handle Adjustable         | 59-94603    | 0759-94603                                                                                         | 3                |                            |
|  |  | 1    | Hex Soc.Flat Hd.Cap Screw | 2640-107    | DIN-7991-1/4 NC x 1                                                                                | 2                |                            |
|  |  | 1    | Bushing                   | 191-26477   | 0791-26477                                                                                         | 1                |                            |
|  |  | Qty. | Description               | IS Part No. | H&B Order No.                                                                                      | Index            | Note                       |
|  |  |      |                           |             | Datum                                                                                              | Name             | Benennung :                |
|  |  |      |                           |             | Gez.                                                                                               |                  | Funnel ARm                 |
|  |  |      |                           |             | Gep.                                                                                               |                  | Triple Gob 3" CTRS / 57 mm |
|  |  |      |                           |             | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein | Zeichnungs- Nr.: |                            |
|  |  |      |                           |             |                                                                                                    | 0791-9133-17     |                            |
|  |  |      |                           |             |                                                                                                    |                  |                            |
|  |  |      |                           |             |                                                                                                    |                  |                            |
|  |  |      |                           |             |                                                                                                    |                  |                            |
|  |  |      | Zust.                     | Änderung    | Datum                                                                                              | Name             |                            |

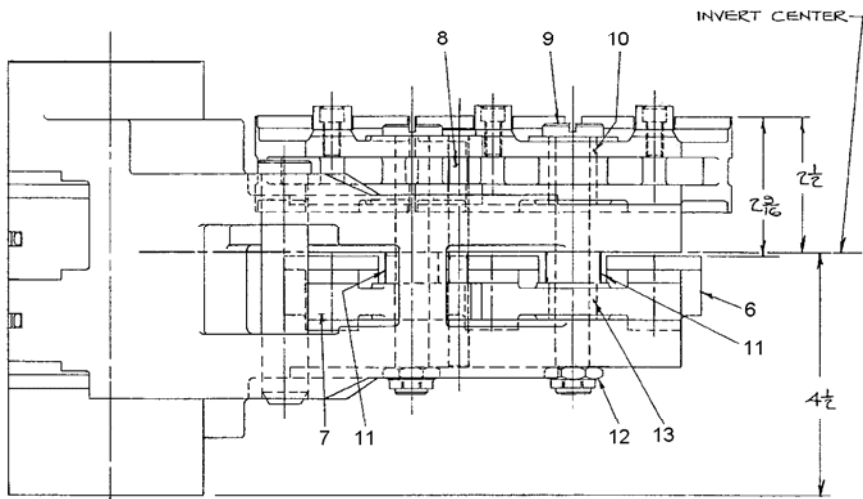
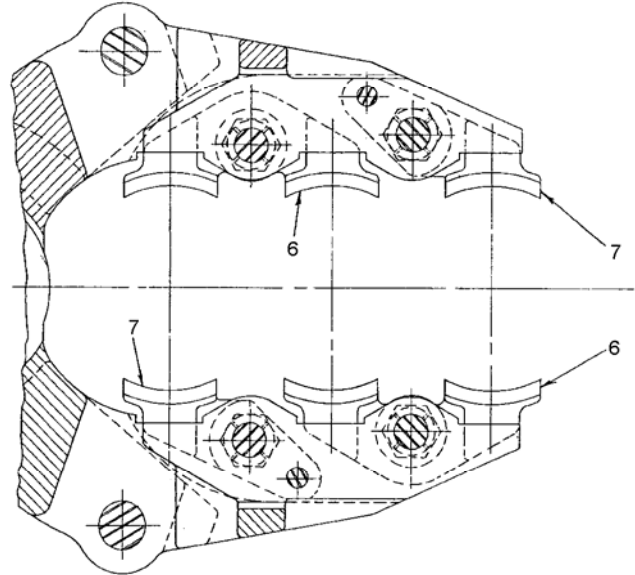
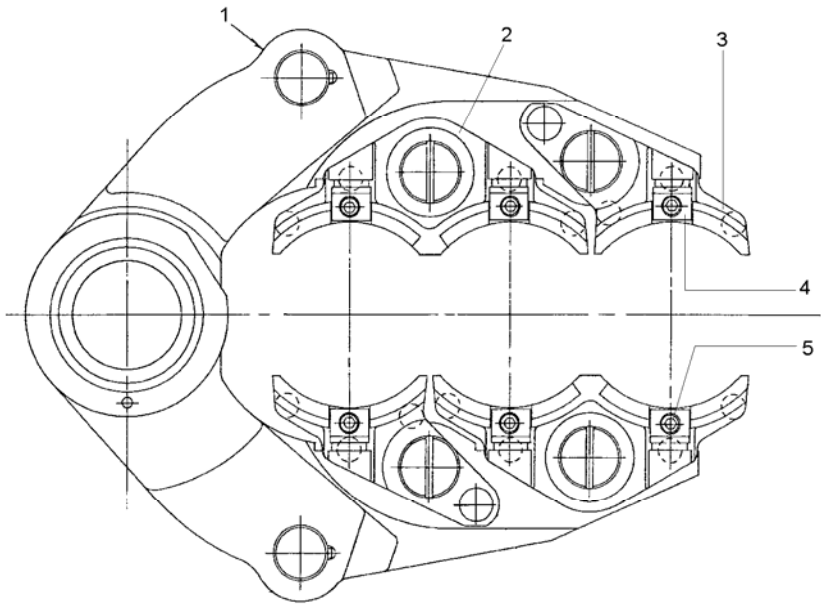
## Funnel Arms Standard

| Description                   | IS-Part No.   | H&B-Order No. |
|-------------------------------|---------------|---------------|
| Funnel Arm TG 3" 54 mm Funnel | 191-7787 Gr.2 | 0791-7787-2   |
| Funnel Arm TG 3" 71 mm Funnel | 191-7787 Gr.3 | 0791-7787-3   |



Blank Mould Holders TG 3”

| Description              | IS-Part No.   | H&B-Order No. |
|--------------------------|---------------|---------------|
| Blank Moul Holders TG 3” | 191-6797 Gr.6 | 0791-6797-6   |

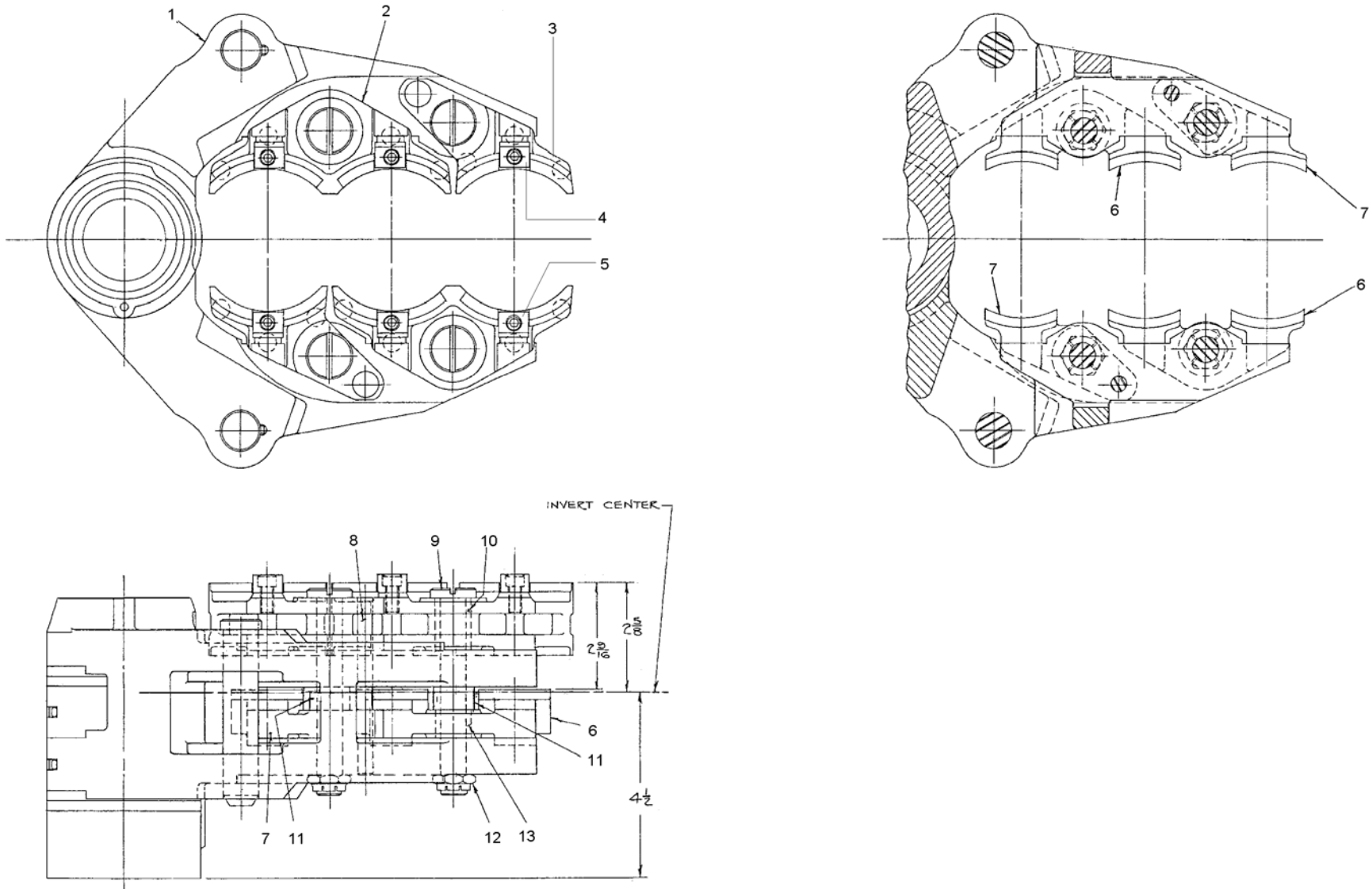


191-6797 Gr.6

|  |  |      |                          |               |                                                                                                    |       |                                                                    |
|--|--|------|--------------------------|---------------|----------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------|
|  |  | 2    | Screw                    | 23-5423       | 0723-5423                                                                                          | 19    | MH Spare Part                                                      |
|  |  | 4    | Bushing                  | 23-5420       | 0723-5420                                                                                          | 18    | MH Spare Part                                                      |
|  |  | 2    | Bushing                  | 191-11377     | 0791-11377                                                                                         | 17    | MH Spare Part                                                      |
|  |  | 1    | Mold Holder Arm RH       |               | 1284-170-RH                                                                                        | 16    | Mold Holder Casting                                                |
|  |  | 1    | Mold Holder Arm LH       |               | 1284-170-LH                                                                                        | 15    | Mold Holder Casting                                                |
|  |  | 2    | Link Pin 108 mm          | 200-10432     | 7200-10432                                                                                         | 14    | not shown                                                          |
|  |  | 2    | Bushing                  | 191-14463     | 0791-14463                                                                                         | 13    |                                                                    |
|  |  | 4    | Flex Loc Nut 5/8” UNF    | 1180-3025     | 7180-3025                                                                                          | 12    |                                                                    |
|  |  | 4    | Spacer                   | 191-16464     | 0791-16464                                                                                         | 11    |                                                                    |
|  |  | 2    | Bushing                  | 23-10644      | 0723-10644                                                                                         | 10    |                                                                    |
|  |  | 4    | Stud                     | 191-16467     | 0791-16467                                                                                         | 9     |                                                                    |
|  |  | 2    | Pin                      | 191-16468     | 0791-16468                                                                                         | 8     |                                                                    |
|  |  | 2    | Mold Holder Lower Insert | 191-23072     | 0791-23072                                                                                         | 7     |                                                                    |
|  |  | 2    | Mold Holder Lower Insert | 191-23071     | 0791-23071                                                                                         | 6     |                                                                    |
|  |  | 12   | Soc.Hd.CapScrew          |               | DIN-912-1/4” NC x 3/4”                                                                             | 5     |                                                                    |
|  |  | 12   | Locating Block           | 191-14005     | 0791-14005                                                                                         | 4     |                                                                    |
|  |  | 2    | Mold Holder Assy.        | 191-6800 Gr.3 | 0791-6800-3                                                                                        | 3     | Lip Dim 6,6 mm                                                     |
|  |  | 2    | Mold Holder Assy.        | 191-6799 Gr.3 | 0791-6799-3                                                                                        | 2     | Lip Dim 6,6 mm                                                     |
|  |  | 1    | Blank Mold Holder        | 191-6797 Gr.1 | 0791-6797-1                                                                                        | 1     |                                                                    |
|  |  | Qty. | Description              | IS Part No.   | H&B Order No.                                                                                      | Index | Note                                                               |
|  |  |      |                          |               | Datum                                                                                              | Name  | Benennung :<br>Blank Mold Holder<br>TG 3“ CTRS<br>3 3/8“ Mold DIA. |
|  |  |      |                          |               | Gez.                                                                                               |       |                                                                    |
|  |  |      |                          |               | Gep.                                                                                               |       |                                                                    |
|  |  |      |                          |               | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein |       | Zeichnungs- Nr.:<br><br>0791-6797-6                                |
|  |  |      |                          |               |                                                                                                    |       |                                                                    |
|  |  |      |                          |               |                                                                                                    |       |                                                                    |
|  |  |      |                          |               |                                                                                                    |       |                                                                    |
|  |  |      |                          |               |                                                                                                    |       |                                                                    |
|  |  |      | Zust.                    | Änderung      | Datum                                                                                              | Name  |                                                                    |

Blow Mould Holders TG 3"

| Description              | IS-Part No.   | H&B-Order No. |
|--------------------------|---------------|---------------|
| Blank Moul Holders TG 3" | 191-6798 Gr.6 | 0791-6798-6   |

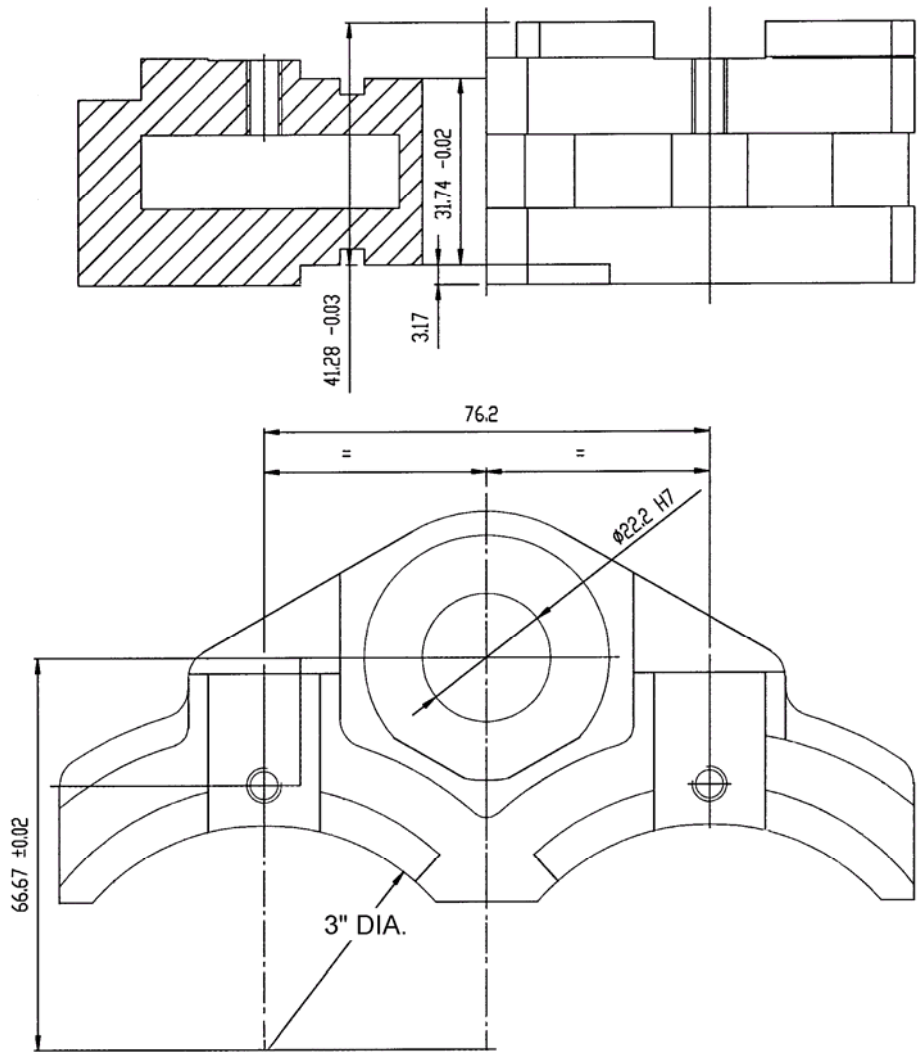


191-6798 Gr.6

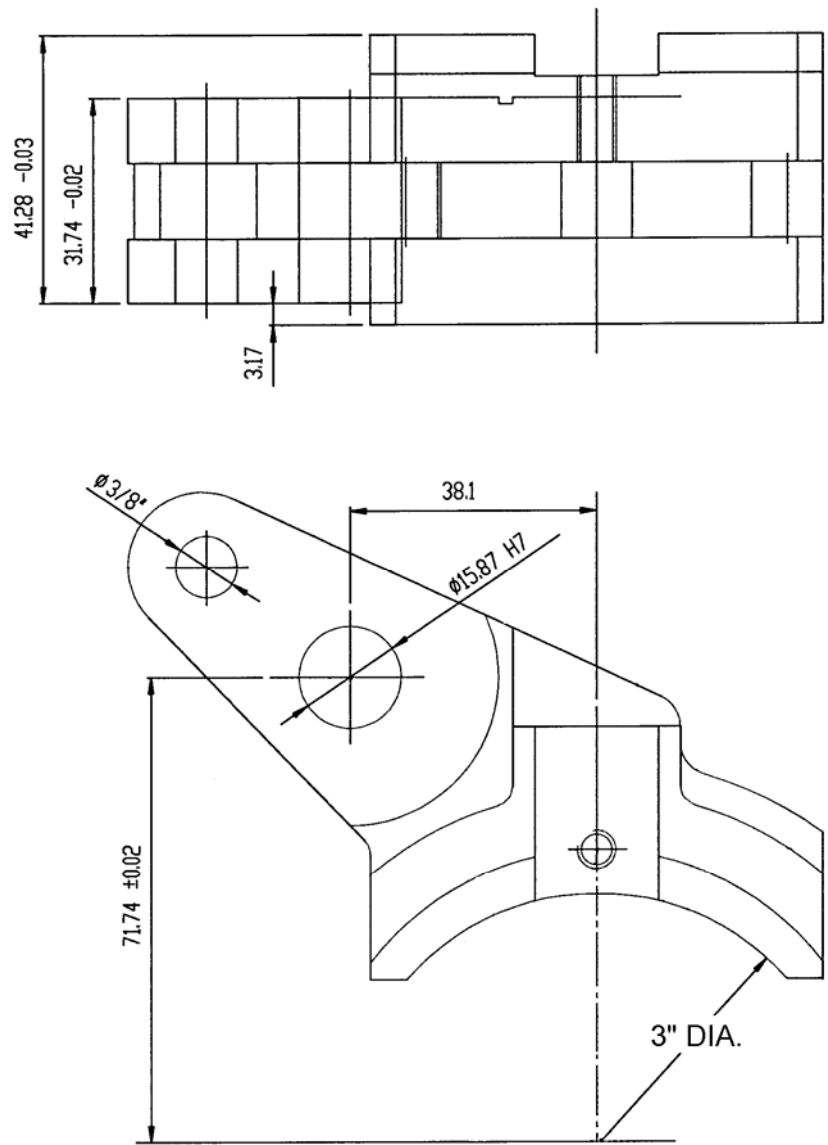
|  |  |      |                          |               |                                                                                                    |       |                                                                   |
|--|--|------|--------------------------|---------------|----------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------|
|  |  | 2    | Screw                    | 23-5423       | 0723-5423                                                                                          | 19    | MH Spare Part                                                     |
|  |  | 4    | Bushing                  | 23-5420       | 0723-5420                                                                                          | 18    | MH Spare Part                                                     |
|  |  | 2    | Bushing                  | 191-11377     | 0791-11377                                                                                         | 17    | MH Spare Part                                                     |
|  |  | 1    | Mold Holder Arrm RH      |               | 1284-168-RH                                                                                        | 16    | Mold Holder Casting                                               |
|  |  | 1    | Mold Holder Arm LH       |               | 1284-168-LH                                                                                        | 15    | Mold Holder Casting                                               |
|  |  | 2    | Link Pin 108 mm          | 200-10432     | 7200-10432                                                                                         | 14    | not shown                                                         |
|  |  | 2    | Bushing                  | 191-14463     | 0791-14463                                                                                         | 13    |                                                                   |
|  |  | 4    | Flex Loc Nut 5/8" UNF    | 1180-3025     | 7180-3025                                                                                          | 12    |                                                                   |
|  |  | 4    | Spacer                   | 191-16464     | 0791-16464                                                                                         | 11    |                                                                   |
|  |  | 2    | Bushing                  | 23-10644      | 0723-10644                                                                                         | 10    |                                                                   |
|  |  | 4    | Stud                     | 191-16467     | 0791-16467                                                                                         | 9     |                                                                   |
|  |  | 2    | Pin                      | 191-16468     | 0791-16468                                                                                         | 8     |                                                                   |
|  |  | 2    | Mold Holder Lower Insert | 191-23072     | 0791-23072                                                                                         | 7     |                                                                   |
|  |  | 2    | Mold Holder Lower Insert | 191-23071     | 0791-23071                                                                                         | 6     |                                                                   |
|  |  | 12   | Soc.Hd.CapScrew          |               | DIN-912-1/4" NC x 3/4"                                                                             | 5     |                                                                   |
|  |  | 12   | Locating Block           | 191-14005     | 0791-14005                                                                                         | 4     |                                                                   |
|  |  | 2    | Mold Holder Assy.        | 191-6800 Gr.3 | 0791-6800-3                                                                                        | 3     | Lip Dim 6,6 mm                                                    |
|  |  | 2    | Mold Holder Assy.        | 191-6799 Gr.3 | 0791-6799-3                                                                                        | 2     | Lip Dim 6,6 mm                                                    |
|  |  | 1    | Blow Mold Holder         | 191-6798 Gr.1 | 0791-6798-1                                                                                        | 1     |                                                                   |
|  |  | Qty. | Description              | IS Part No.   | H&B Order No.                                                                                      | Index | Note                                                              |
|  |  |      |                          |               | Datum                                                                                              | Name  | Benennung :<br>Blow Mold Holder<br>TG 3" CTRS<br>3 3/8" Mold DIA. |
|  |  |      |                          |               | Gez.                                                                                               |       |                                                                   |
|  |  |      |                          |               | Gep.                                                                                               |       |                                                                   |
|  |  |      |                          |               | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein |       | Zeichnungs- Nr.:<br><br>0791-6798-6                               |
|  |  |      |                          |               |                                                                                                    |       |                                                                   |
|  |  |      |                          |               |                                                                                                    |       |                                                                   |
|  |  |      |                          |               |                                                                                                    |       |                                                                   |
|  |  |      | Zust.                    | Änderung      | Datum                                                                                              | Name  |                                                                   |

Special Inserts TG 3” - 3” DIA

| Description                         | IS-Part No. | H&B-Order No. |
|-------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG – 3” DIA. |             | H&B-02260     |

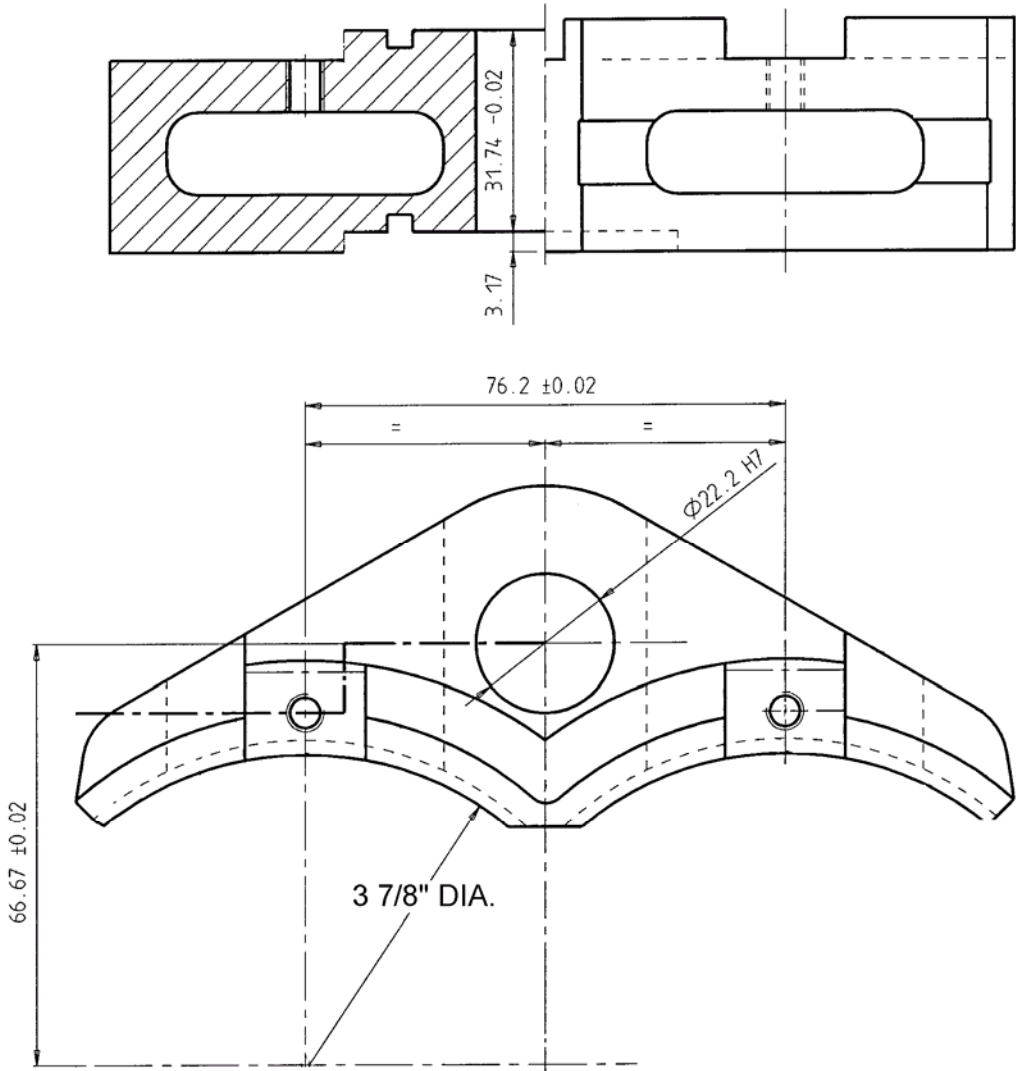


| Description                         | IS-Part No. | H&B-Order No. |
|-------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG – 3” DIA. |             | H&B-02261     |

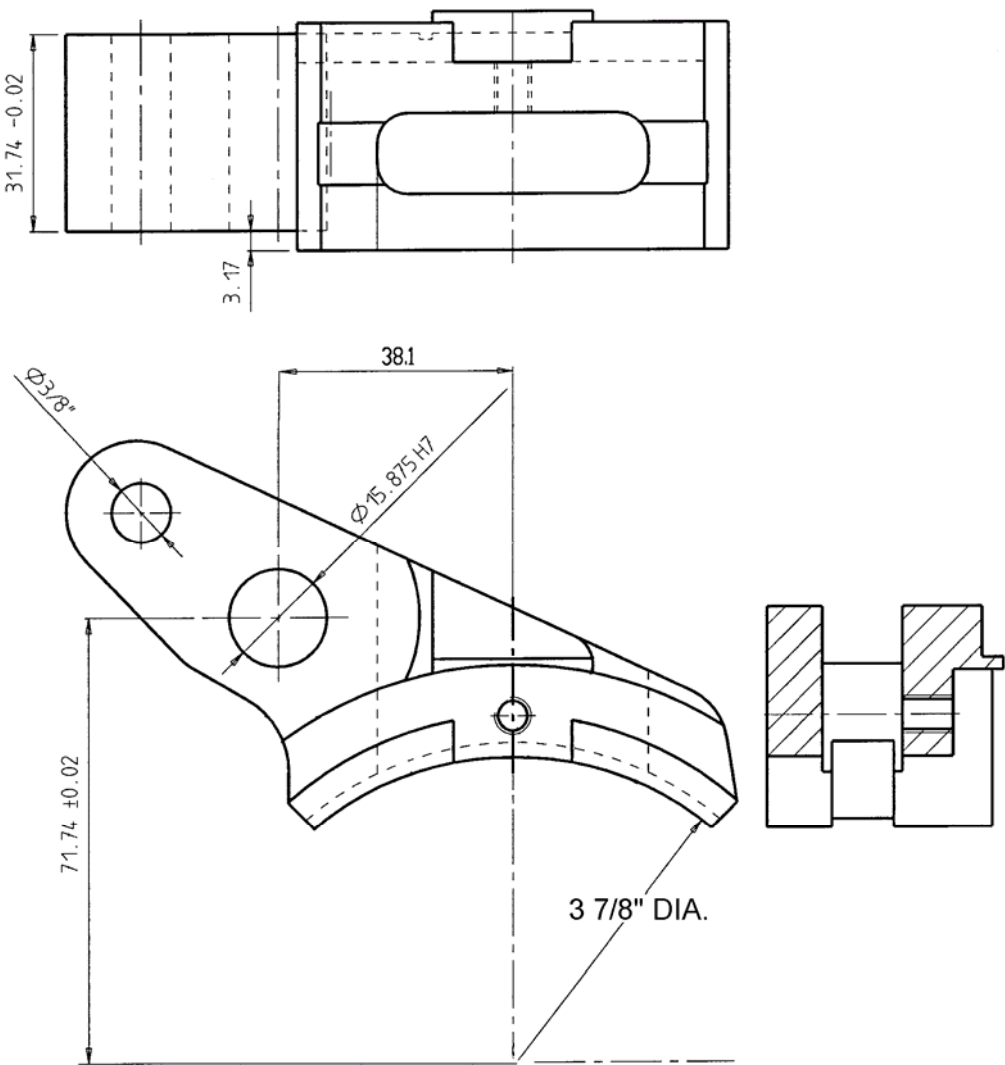


Special Inserts TG 3” – 3 7/8” DIA

| Description                             | IS-Part No. | H&B-Order No. |
|-----------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG – 3 7/8” DIA. |             | H&B-02205     |

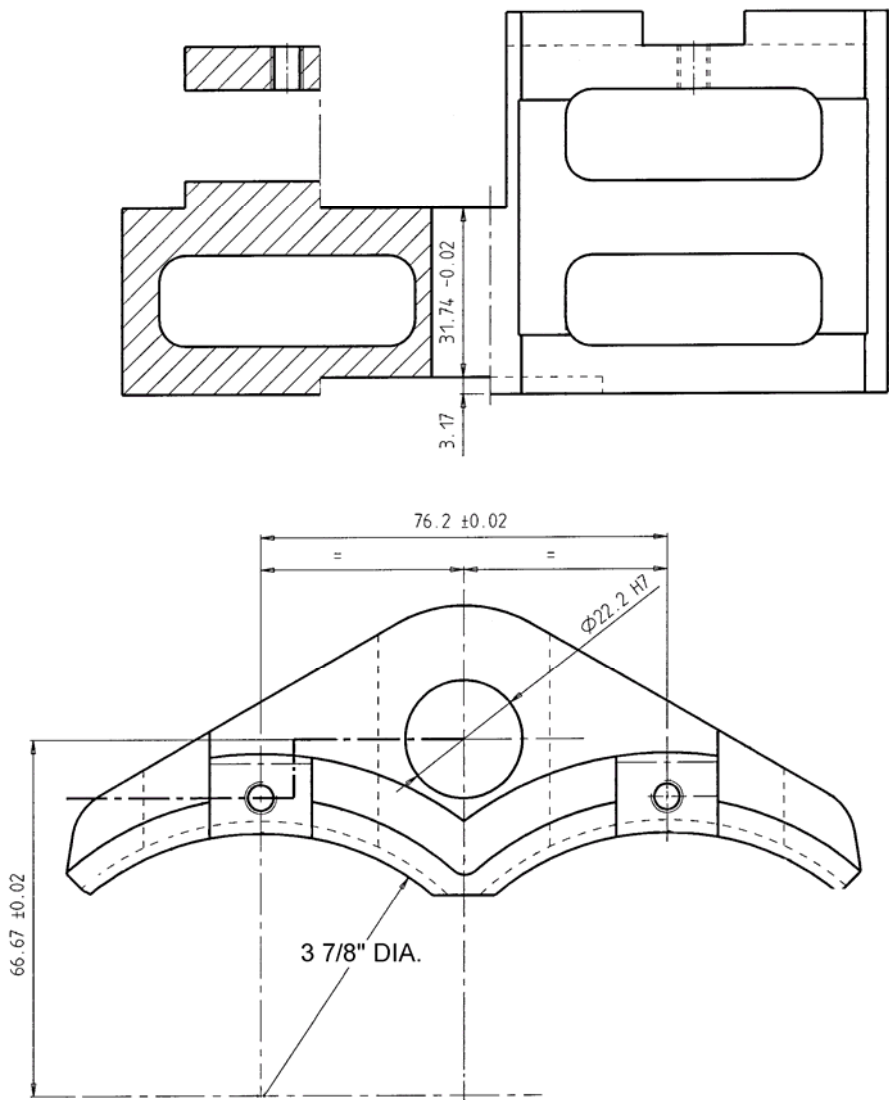


| Description                             | IS-Part No. | H&B-Order No. |
|-----------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG – 3 7/8” DIA. |             | H&B-02205     |

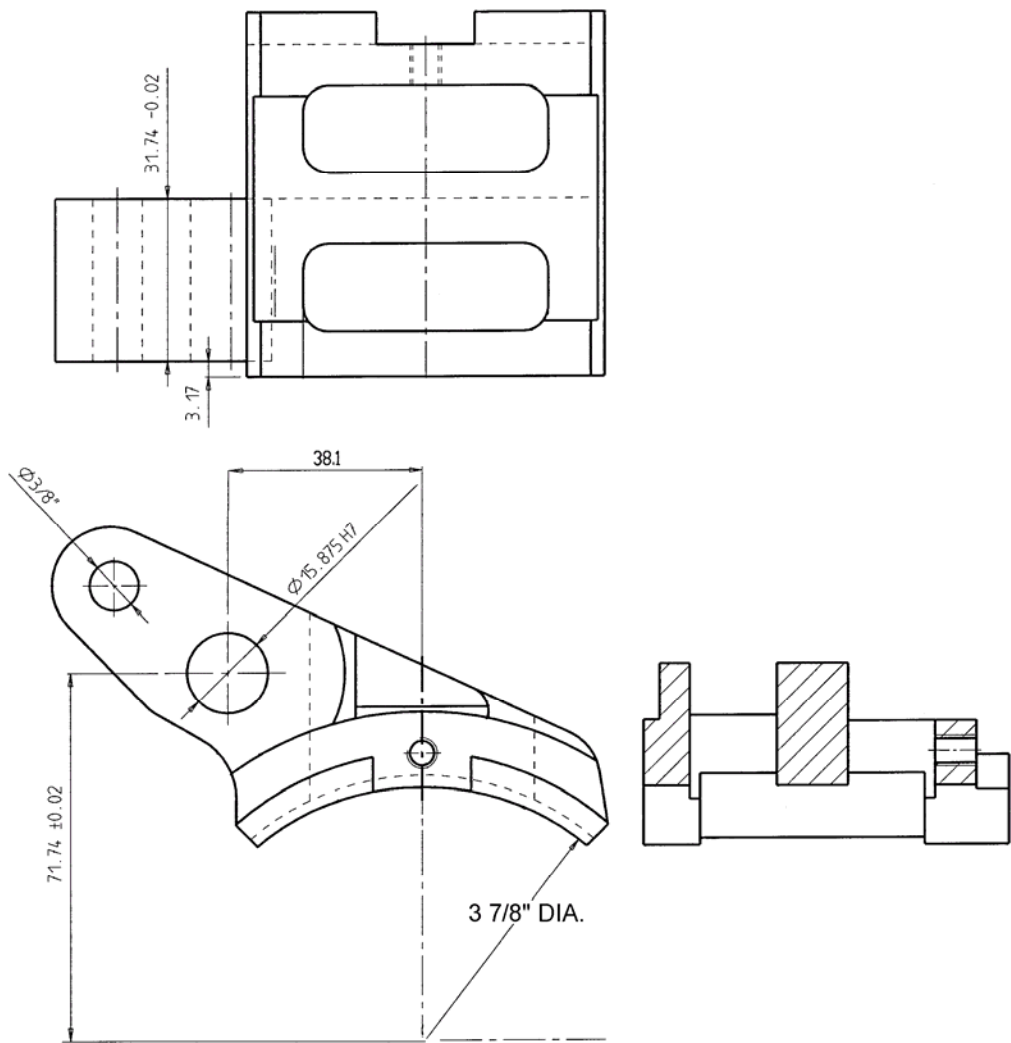


Special Inserts TG 3” Offset – 3 7/8” DIA

| Description                                    | IS-Part No. | H&B-Order No. |
|------------------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG Offset – 3 7/8” DIA. |             | H&B-02205-A   |



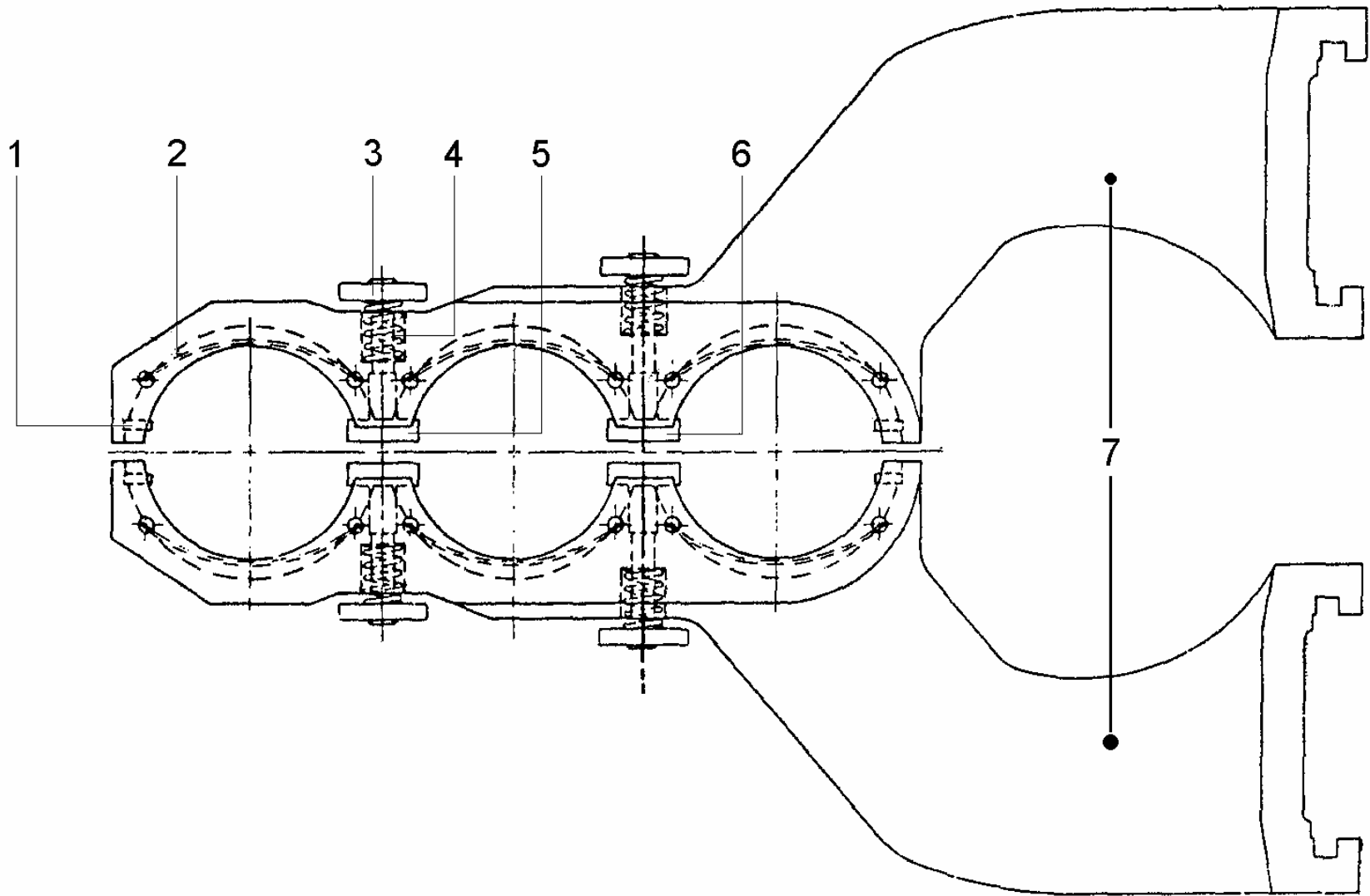
| Description                                    | IS-Part No. | H&B-Order No. |
|------------------------------------------------|-------------|---------------|
| Mould Holder Inserts 3”TG Offset – 3 7/8” DIA. |             | H&B-02206-A   |



For operating Inserts with 3 7/8 DIA., some modifications on blank – and blow mould holders are necessary, for further information, do not hesitate to contact us

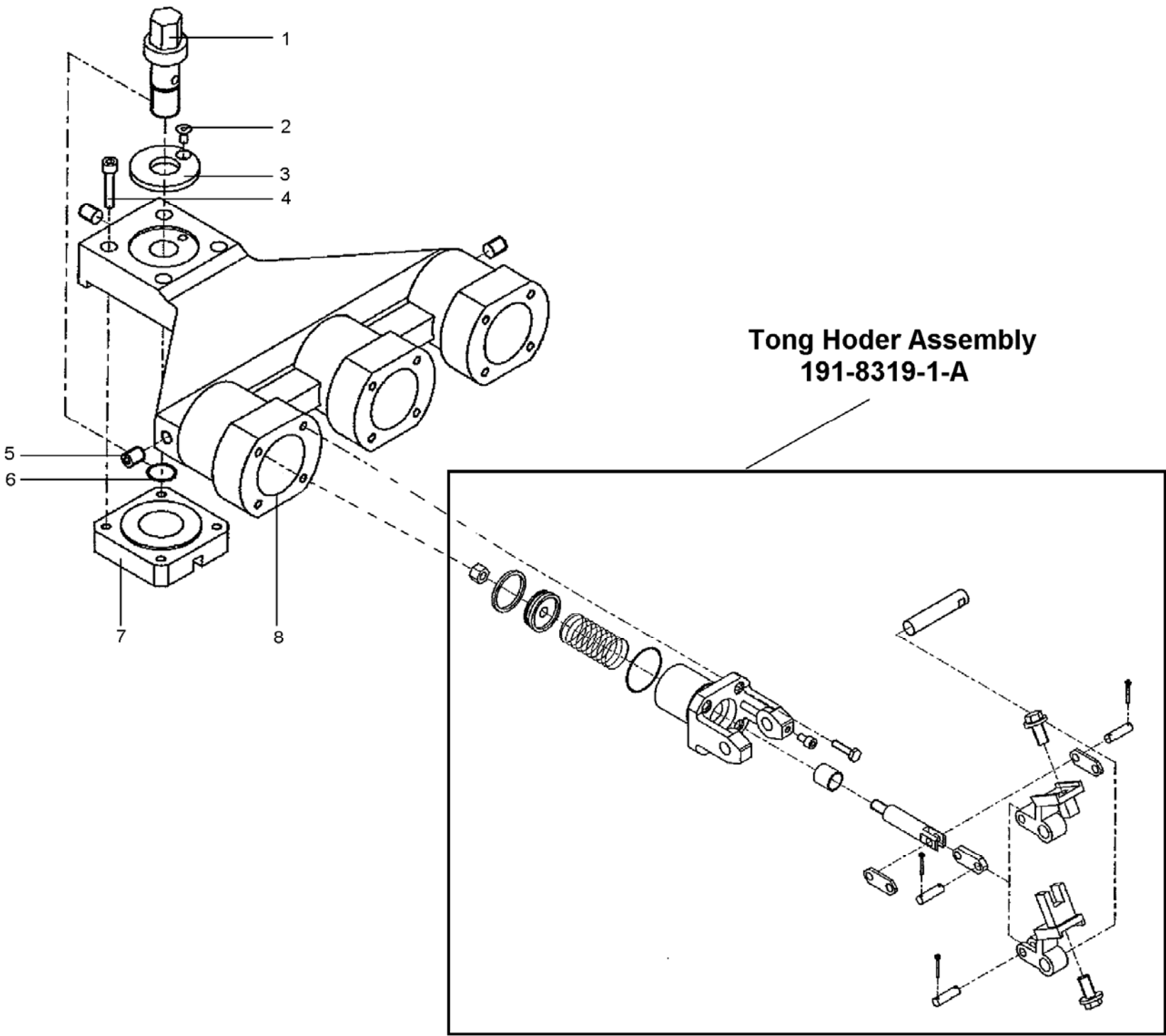
Neck Ring Holders TG 3”

| Description             | IS-Part No.   | H&B-Order No. |
|-------------------------|---------------|---------------|
| Neck Ring Holders TG 3” | 191-6792 Gr.1 | 0791-6792-1   |



Q.C. Take Out Tong Head Assembly TG 3"

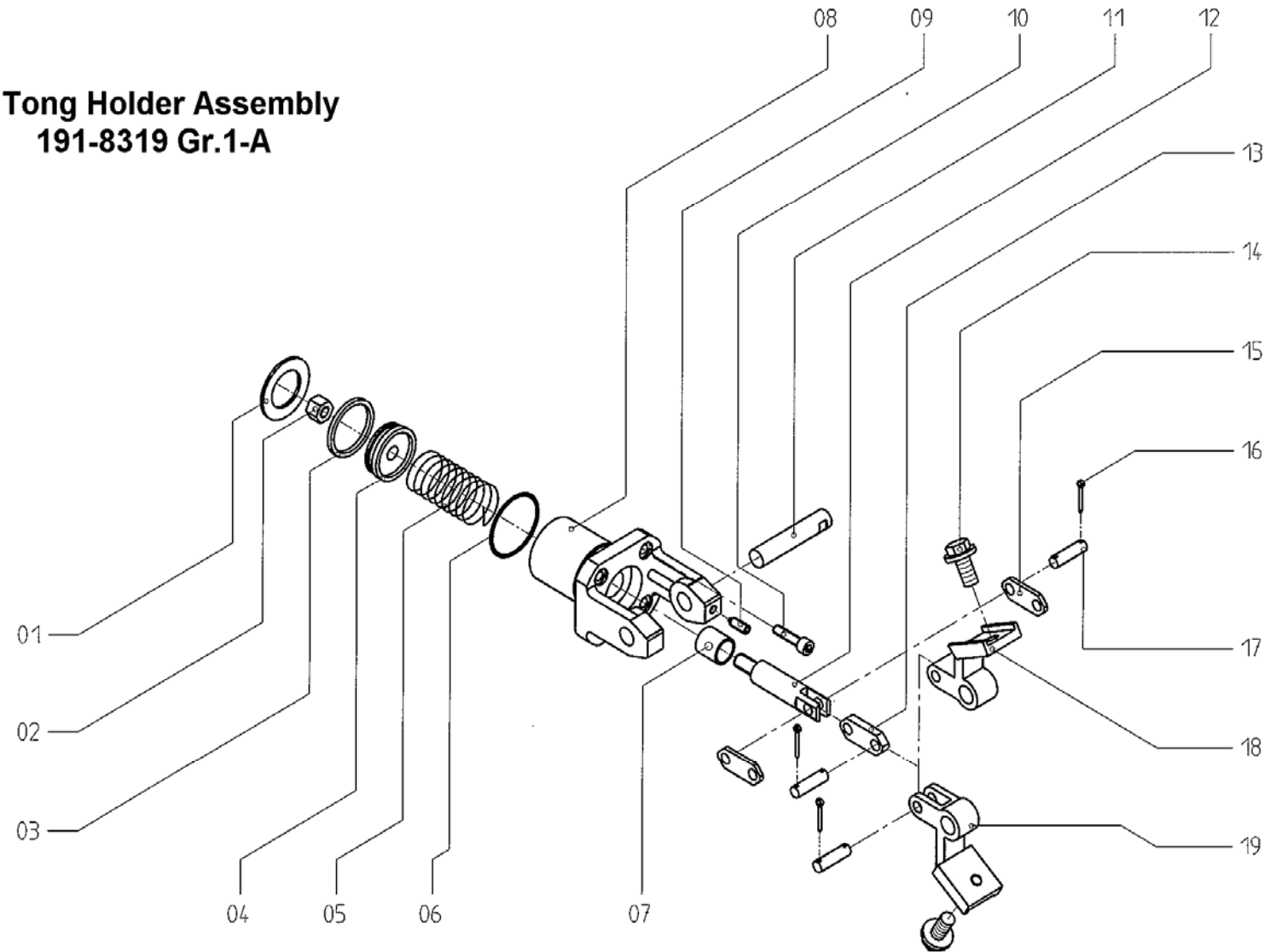
| Description                                     | IS-Part No.    | H&B-Order No. |
|-------------------------------------------------|----------------|---------------|
| Q.C.Take Out Tong Head Assembly TG 3"           | 191-9125 Gr.18 | 0791-9125-18  |
| Q.C.Take Out Tong Head Assembly TG 3" Anti Wink | 210-275 Gr.19  | 7210-275-19   |



|         |          |      |                                     |               |                                                                                                    |       |                             |
|---------|----------|------|-------------------------------------|---------------|----------------------------------------------------------------------------------------------------|-------|-----------------------------|
| 3       |          | X    | Tong Holder Assy. Anti Wink         | 191-9535 Gr.2 | 0791-9535-2                                                                                        | 9     | Use 0791-9535-2             |
|         | 3        | X    | Tong Holder Assy.                   | 191-8319 Gr.1 | 0791-8319-1-A                                                                                      | 9     | use 0791-8319-1             |
| x       | x        | 1    | Body 3" TG                          | 19124413      | 0791-24413                                                                                         | 8     |                             |
| x       | x        | 1    | Adapter Plate                       | 191-26127     | 0791-26127                                                                                         | 7     |                             |
| x       | x        | 1    | Retaining Ring                      | 2540-541      | 7540-541                                                                                           | 6     |                             |
| x       | x        | 3    | Plug                                |               | DIN-906-R1/8                                                                                       | 5     |                             |
| x       | x        | 4    | Screw for fitting the adapter plate |               | DIN-912-1/4NC x 11/4                                                                               | 4     |                             |
| x       | x        | 1    | Wear Washer                         | 191-24422     | 0791-24422                                                                                         | 3     |                             |
| x       | x        | 1    | Screw                               |               | DIN-7991-10-24NC x 3/8                                                                             | 2     |                             |
| x       | x        | 1    | Clamping Bolt                       |               | H&B-100                                                                                            | 1     |                             |
| 210-275 | 191-9125 | Qty. | Description                         | IS Part No.   | H&B Order No.                                                                                      | Index | Note                        |
|         |          |      |                                     |               | Datum                                                                                              | Name  | Benennung :                 |
|         |          |      |                                     |               | Gez.                                                                                               |       | Q.C.Tong Head Assembly      |
|         |          |      |                                     |               | Gep.                                                                                               |       | Triple Gob 3" CTRS          |
|         |          |      |                                     |               | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein |       | Zeichnungs- Nr.:            |
|         |          |      |                                     |               |                                                                                                    |       |                             |
|         |          |      |                                     |               |                                                                                                    |       |                             |
|         |          |      |                                     |               |                                                                                                    |       |                             |
|         |          |      |                                     |               |                                                                                                    |       |                             |
|         |          |      | Zust.                               | Änderung      | Datum                                                                                              | Name  | 0791-9125-18<br>7210-275-19 |

Take Out Tong Holder – Type H&B ( Emhart Compatible )

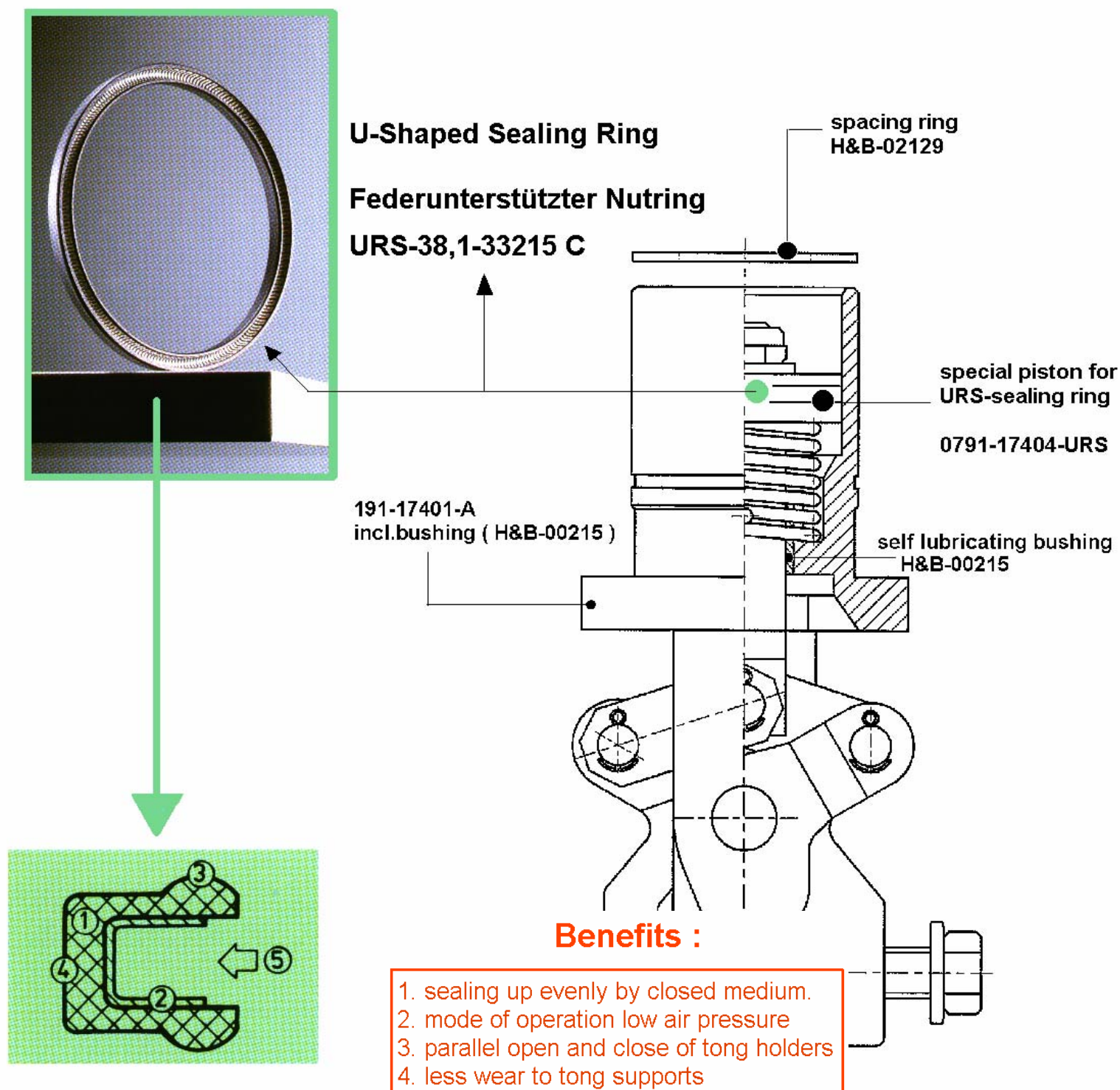
| Description                                 | IS-Part No.   | H&B-Order No. |
|---------------------------------------------|---------------|---------------|
| Take Out Tong Holder ( see below Bulletin ) | 191-8319 Gr.1 | 0791-8319-1-A |



|          |                                       |      |                                                                                                       |       |             |                                                                                               |       |      |
|----------|---------------------------------------|------|-------------------------------------------------------------------------------------------------------|-------|-------------|-----------------------------------------------------------------------------------------------|-------|------|
| 1        | Tong Holder                           |      |                                                                                                       |       | 191-17390   | 0791-17390                                                                                    | 19    |      |
| 1        | Tong Holder                           |      |                                                                                                       |       | 191-17389   | 0791-17389                                                                                    | 18    |      |
| 3        | Pin                                   |      |                                                                                                       |       | 191-10290   | 0791-10290                                                                                    | 17    |      |
| 6        | Cotter Pin                            |      |                                                                                                       |       |             | DIN-94 -2,5 x 12                                                                              | 16    |      |
| 2        | Link                                  |      |                                                                                                       |       | 191-10285   | 0791-10285                                                                                    | 15    |      |
| 2        | Collar Screw                          |      |                                                                                                       |       | 191-10630   | 0791-10630                                                                                    | 14    |      |
| 1        | Link                                  |      |                                                                                                       |       | 191-10292   | 0791-10292                                                                                    | 13    |      |
| 1        | Piston & Rod                          |      |                                                                                                       |       | 191-17402   | 0791-17402                                                                                    | 12    |      |
| 1        | Pivot Shaft                           |      |                                                                                                       |       | 191-17403   | 0791-17403                                                                                    | 11    |      |
| 4        | Screw for fitting the complete holder |      |                                                                                                       |       |             | DIN-912-1/4”UNC x 1”                                                                          | 10    |      |
| 1        | Plug                                  |      |                                                                                                       |       |             | DIN-915- 1/4“ UNC x 1/2“                                                                      | 9     |      |
| 1        | Tong Support incl.self lubric.bushing |      |                                                                                                       |       |             | 0791-17401-A                                                                                  | 8     |      |
| 1        | Bushing, self lubricatet 19,05-15,875 |      |                                                                                                       |       |             | H&B-00215                                                                                     | 7     |      |
| 1        | O-Ring, viton                         |      |                                                                                                       |       | 1700-805    | 7700-805                                                                                      | 6     |      |
| 1        | Compression Spring                    |      |                                                                                                       |       | 23-11025    | 0723-11025                                                                                    | 5     |      |
| 1        | Special Piston                        |      |                                                                                                       |       |             | 0791-17404-URS                                                                                | 4     |      |
| 1        | U-Shaped Sealing Ring                 |      |                                                                                                       |       |             | URS-38,1-33215 C                                                                              | 3     |      |
| 1        | Hex Nut                               |      |                                                                                                       |       |             | DIN-985 – 1/2“ UNC                                                                            | 2     |      |
| 1        | Spacing Ring                          |      |                                                                                                       |       |             | H&B-02129                                                                                     | 1     |      |
| Qty.     | Description                           |      |                                                                                                       |       | IS Part No. | H&B Order No.                                                                                 | Index | Note |
|          |                                       |      |                                                                                                       | Datum | Name        | Benennung :<br><br>Take Out Tong Holder                                                       |       |      |
|          |                                       |      | Gez.                                                                                                  |       |             |                                                                                               |       |      |
|          |                                       |      | Gep.                                                                                                  |       |             |                                                                                               |       |      |
|          |                                       |      | Hartmann & Bender<br>Vertriebs – und<br>Produktions - GmbH<br>Hauptstraße 70<br>65396 Walluf am Rhein |       |             | Zeichnungs- Nr.:<br><br>0791-8319 -1-A<br>H&B-Standard - System<br><br>see technical Bulletin |       |      |
|          |                                       |      |                                                                                                       |       |             |                                                                                               |       |      |
|          |                                       |      |                                                                                                       |       |             |                                                                                               |       |      |
| Änderung | Datum                                 | Name |                                                                                                       |       |             |                                                                                               |       |      |

## Take Out Tong Holder – Type H&B ( Emhart Compatible )

| Description        | IS-Part No.   | H&B-Order No. |
|--------------------|---------------|---------------|
| Technical Bulletin | 191-8319 Gr.1 | 0791-8319-1-A |

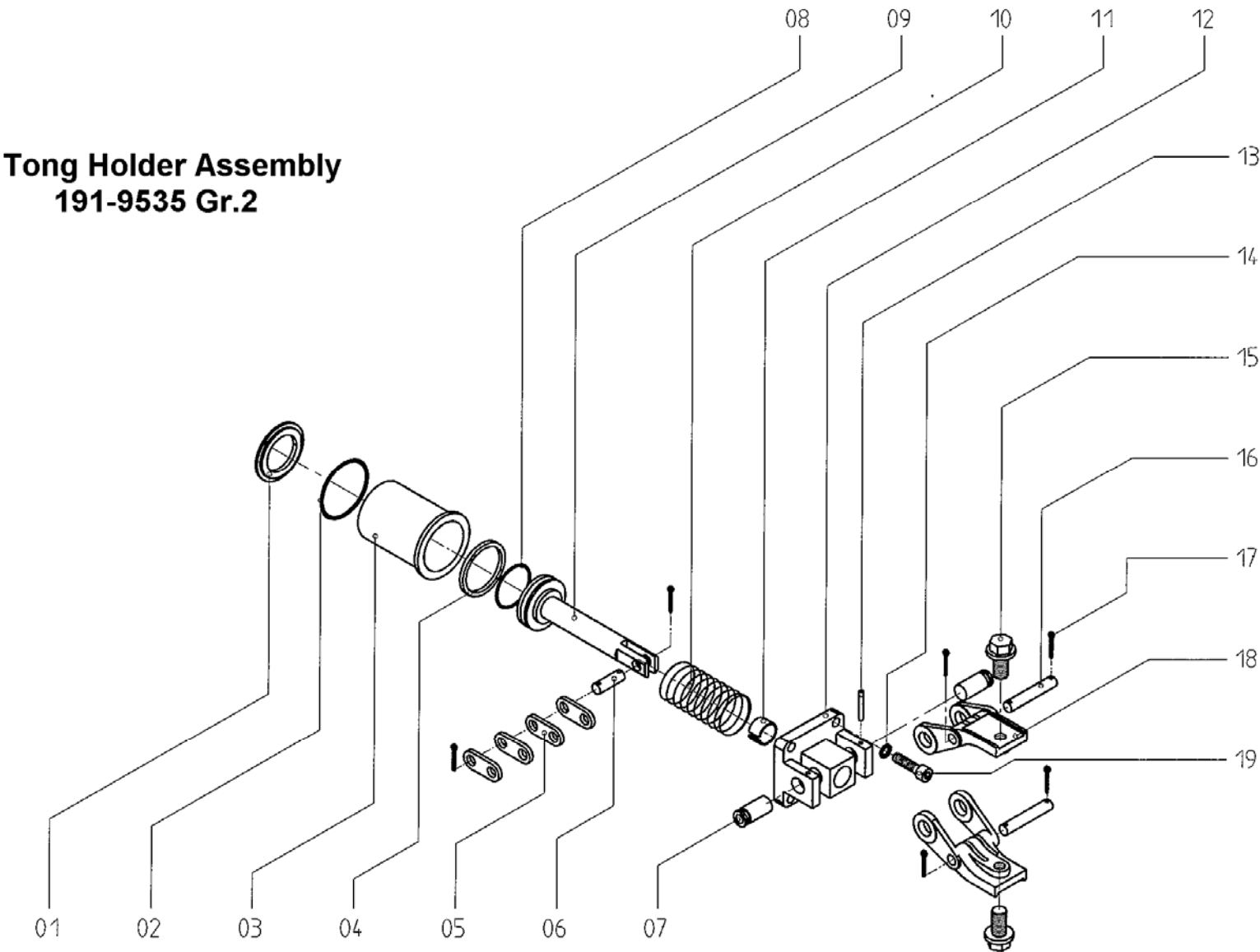


1. Kunststoffhülle mit hoher thermischer und chemischer Beständigkeit
2. Edelstahlfeder für definierte Dichtkräfte
3. Dichtlippe
4. Dichtungsrücken, maßgeblich für die stabile Lage im Einbauraum
5. Druck bzw. Medienseite

1. Synthetic materials with high thermal and chemical resistance
2. High quality steel spring for defined thick strengths
3. Sealing lip
4. Sealing back, substantial for the stable situation in the installation room
5. Pressure and medium side

Take Out Tong Holder

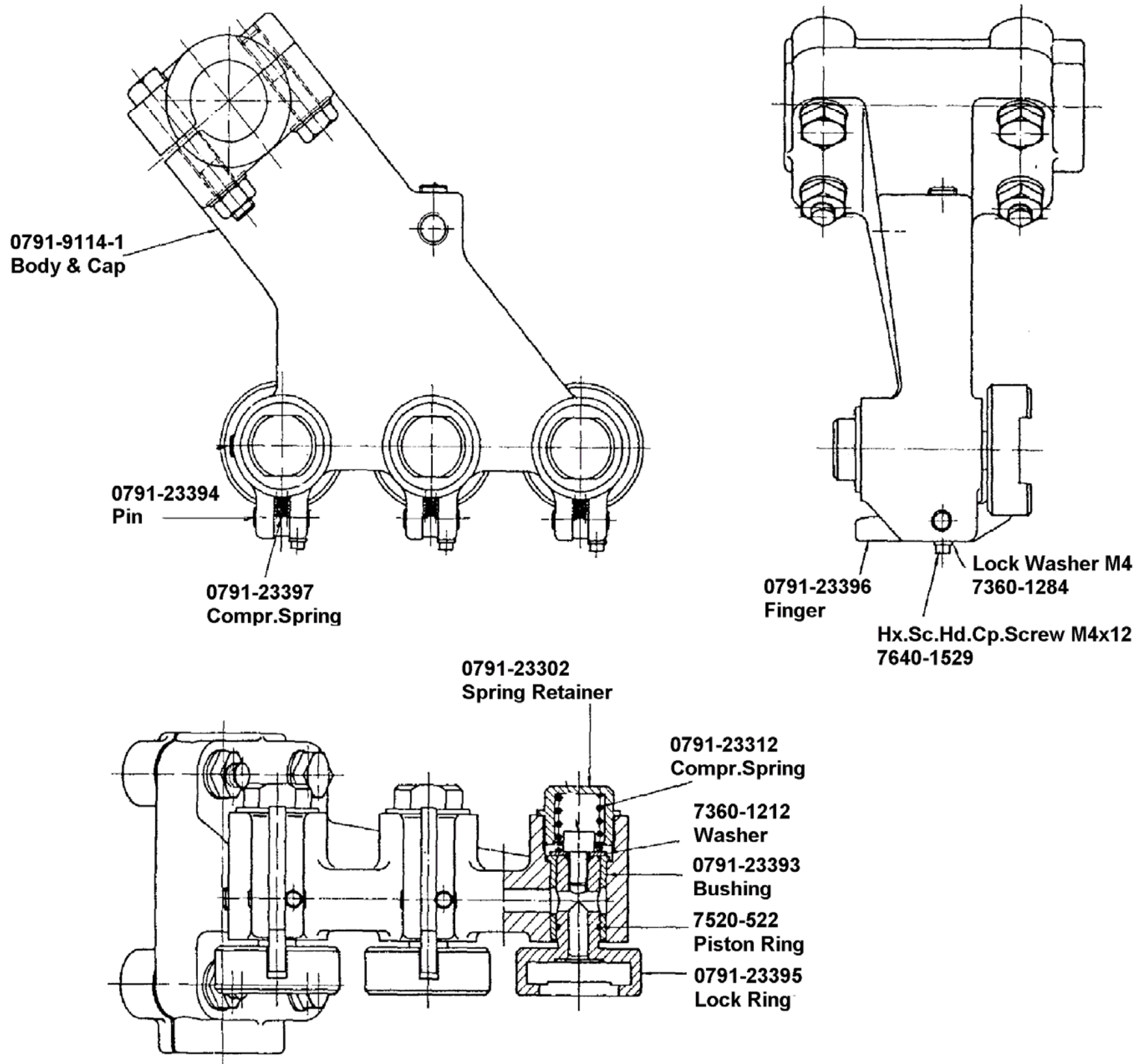
| Description          | IS-Part No.    | H&B-Order No. |
|----------------------|----------------|---------------|
| Take Out Tong Holder | 0191-9535 GR.2 | 0791-9535-2   |



|          |                                       |      |                                                                                                       |       |             |                                                           |       |      |
|----------|---------------------------------------|------|-------------------------------------------------------------------------------------------------------|-------|-------------|-----------------------------------------------------------|-------|------|
| 4        | Screw for fitting the complete holder |      |                                                                                                       |       |             | DIN-912-1/4 UNC x 1”                                      | 19    |      |
| 2        | Tong Holder                           |      |                                                                                                       |       | 191-27163   | 0791-27163                                                | 18    |      |
| 6        | Cotter Pin                            |      |                                                                                                       |       |             | DIN-94 -2,5 x 12                                          | 17    |      |
| 2        | Pin                                   |      |                                                                                                       |       | 191-27210   | 0791-27210                                                | 16    |      |
| 2        | Collar Screw                          |      |                                                                                                       |       | 191-10630   | 0791-10630                                                | 15    |      |
| 4        | Lock washer                           |      |                                                                                                       |       |             | H1235-6,4                                                 | 14    |      |
| 2        | Straight Pin                          |      |                                                                                                       |       |             | DIN-1481-3 x 24                                           | 13    |      |
| 1        | Tong Support                          |      |                                                                                                       |       | 191-27158   | 0791-27158                                                | 12    |      |
| 1        | Guide Ring                            |      |                                                                                                       |       | 59-86533    | 0759-86533                                                | 11    |      |
| 1        | Compression Spring                    |      |                                                                                                       |       | 23-11025    | 0723-11025                                                | 10    |      |
| 1        | Piston & Rod                          |      |                                                                                                       |       | 191-27156   | 0791-27156                                                | 9     |      |
| 1        | O-Ring, Viton                         |      |                                                                                                       |       | 1700-43     | 7700-43                                                   | 8     |      |
| 2        | Pivot Sleeve                          |      |                                                                                                       |       | 191-26989   | 0791-26989                                                | 7     |      |
| 1        | Pin                                   |      |                                                                                                       |       | 191-27209   | 0791-27209                                                | 6     |      |
| 4        | Link                                  |      |                                                                                                       |       | 191-26795   | 0791-26795                                                | 5     |      |
| 1        | Piston Ring                           |      |                                                                                                       |       | 2520-547    | 9520-547                                                  | 4     |      |
| 1        | Cylinder                              |      |                                                                                                       |       | 191-27157   | 0791-27157                                                | 3     |      |
| 1        | O-Ring, Viton                         |      |                                                                                                       |       | 1700-813    | 7700-813                                                  | 2     |      |
| 1        | Spacing Ring                          |      |                                                                                                       |       | 200-10495   | 7200-10495                                                | 1     |      |
| Qty.     | Description                           |      |                                                                                                       |       | IS Part No. | H&B Order No.                                             | Index | Note |
|          |                                       |      |                                                                                                       | Datum | Name        | Benennung :<br><br>Take Out Tong Holder                   |       |      |
|          |                                       |      | Gez.                                                                                                  |       |             |                                                           |       |      |
|          |                                       |      | Gep.                                                                                                  |       |             |                                                           |       |      |
|          |                                       |      | Hartmann & Bender<br>Vertriebs – und<br>Produktions - GmbH<br>Hauptstraße 70<br>65396 Walluf am Rhein |       |             | Zeichnungs- Nr.:<br><br>0791-9535-2<br>Anti Wink - System |       |      |
|          |                                       |      |                                                                                                       |       |             |                                                           |       |      |
|          |                                       |      |                                                                                                       |       |             |                                                           |       |      |
|          |                                       |      |                                                                                                       |       |             |                                                           |       |      |
| Änderung | Datum                                 | Name |                                                                                                       |       |             |                                                           |       |      |

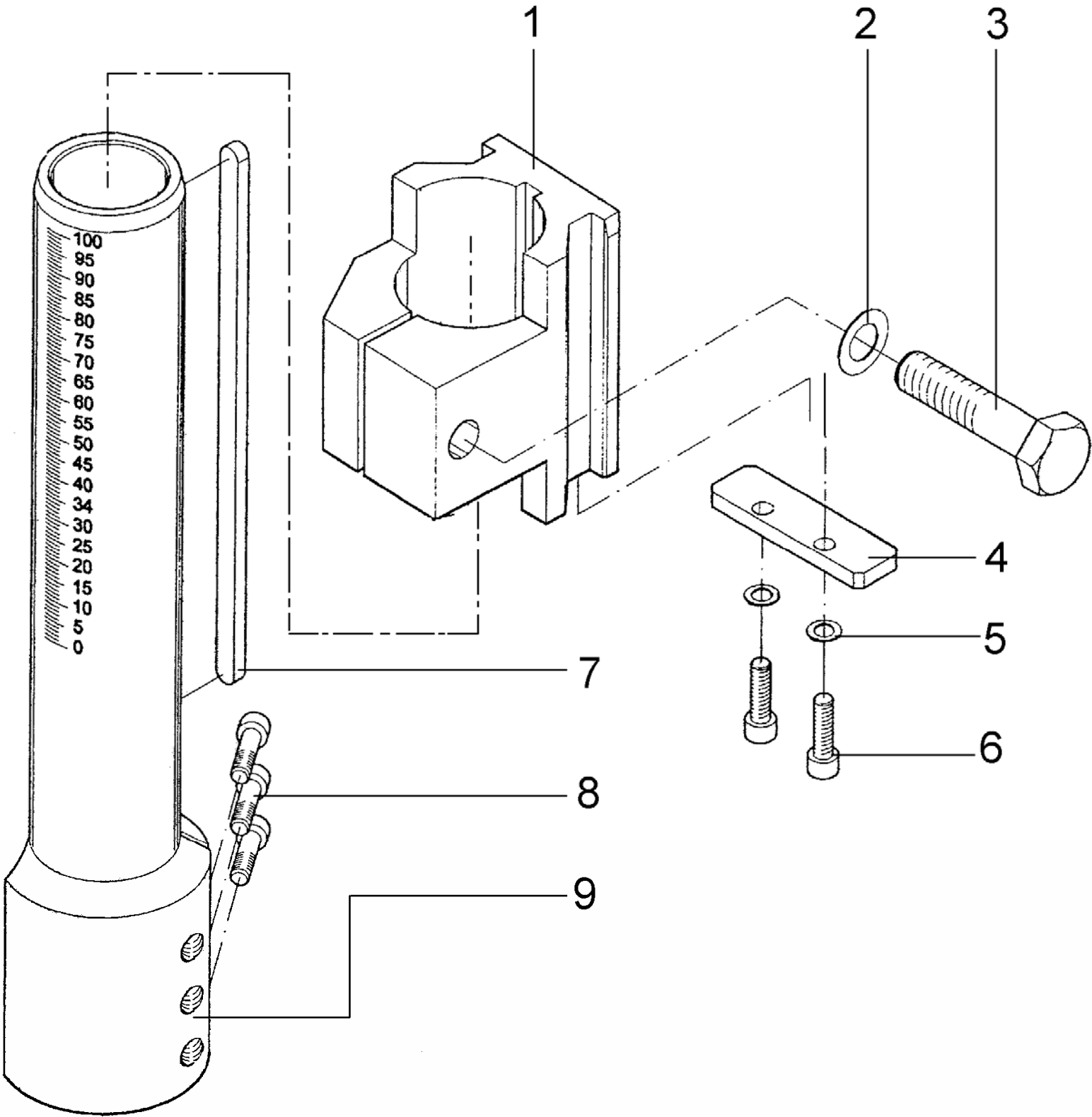
## Blow Head Arm - Standard

| Description                     | IS-Part No.   | H&B-Order No. |
|---------------------------------|---------------|---------------|
| Blow Head Arm 3" TG Lightweight | 191-7837 Gr.1 | 0791-7837-1   |



Mounting Parts Q.C. Blow Head

| Description                   | IS-Part No.  | H&B-Order No. |
|-------------------------------|--------------|---------------|
| Mounting Parts Q.C. Blow Head | 200-200 Gr.1 | 7200-200-1    |



|  |  |      |                       |             |                                                                                                    |                  |                |
|--|--|------|-----------------------|-------------|----------------------------------------------------------------------------------------------------|------------------|----------------|
|  |  | 1    | Sleeve                | 200-10252   | 7200-10252                                                                                         | 9                |                |
|  |  | 3    | Hex Soc. Hd.Cp. Screw | 2640-530    | DIN-912-3/8 UNC x 1"                                                                               | 8                |                |
|  |  | 1    | Key 8 x 5 x 210       | 191-26126   | 0791-26126                                                                                         | 7                |                |
|  |  | 2    | Hex Soc. Hd.Cp. Screw | 2640-130    | DIN-912-1/4 UNC x 3/4"                                                                             | 6                |                |
|  |  | 2    | Washer                |             | DIN-125-6,4                                                                                        | 5                |                |
|  |  | 1    | Plate                 | 191-25462   | 0791-25462                                                                                         | 4                |                |
|  |  | 1    | Hex Hd.Cp. Screw      | 2660-790    | DIN-931-1/2 UNC x 2 3/4"                                                                           | 3                |                |
|  |  | 1    | Washer                |             | DIN-125-13                                                                                         | 2                |                |
|  |  | 1    | Clamping Device       | 191-25460   | 0791-25460                                                                                         | 1                |                |
|  |  | Qty. | Description           | IS Part No. | H&B Order No.                                                                                      | Index            | Note           |
|  |  |      |                       |             | Datum                                                                                              | Name             | Benennung :    |
|  |  |      |                       |             | Gez.                                                                                               |                  | Mounting Parts |
|  |  |      |                       |             | Gep.                                                                                               |                  | Q.C. Blow Head |
|  |  |      |                       |             | Hartmann & Bender<br>Vertriebs - und<br>Produktions - GmbH<br>Hauptstraße 70 72<br>Walluf am Rhein | Zeichnungs- Nr.: |                |
|  |  |      |                       |             |                                                                                                    | 7200-200-1       |                |
|  |  |      |                       |             |                                                                                                    |                  |                |
|  |  |      |                       |             |                                                                                                    |                  |                |
|  |  |      | Zust.                 | Änderung    | Datum                                                                                              | Name             |                |

## Blow Head Arm Quick Exchange TG 3"

| Description                                      | IS-Part No.   | H&B-Order No. |
|--------------------------------------------------|---------------|---------------|
| Blow Head Arm 3" TG Bayonet Type 52 mm Blow Head | 200-203 Gr.16 | 7200-203-16   |
| Blow Head Arm 3" TG Bayonet Type 62 mm Blow Head | 200-203 Gr.17 | 7200-203-17   |

