

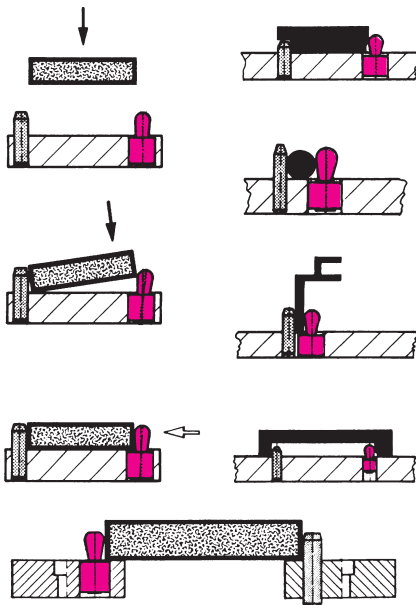
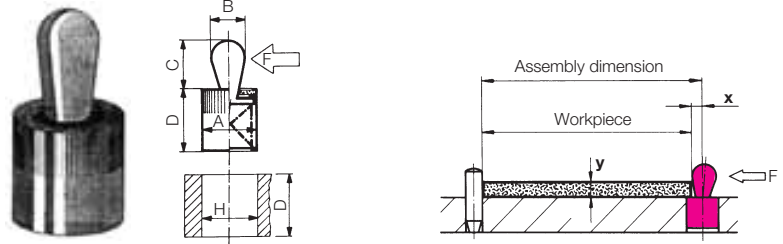
## Spring Clamping Element 10-300 N, WPR-System



These spring clamping elements are designed for quicker, safer and more economic work-piece positioning and clamping within clamping range of 10-300 N.

### With sealing

Elements of range 3112-1XX are equipped with additional sealing against swarf and coolants and are particularly suitable for its application in the metal cutting machining.



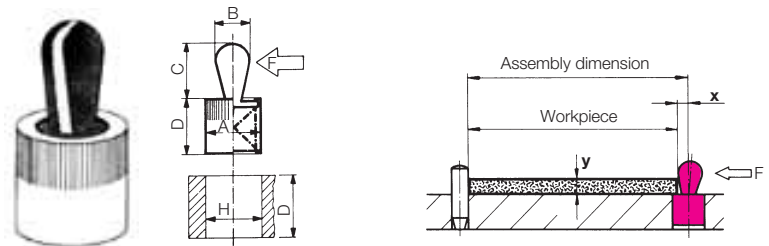
### Function

The clamping force is generated by displacement of a spring-loaded pin. Clamping force and clamping path are indicated in the chart.

| A  | B  | C  | D  | H     | F   | y=1.0 | y=2.0 | y=3.0 | y=4.5 | y=6.0 | y=8.0 | y≥10.0 | Weight | Part-no. |
|----|----|----|----|-------|-----|-------|-------|-------|-------|-------|-------|--------|--------|----------|
|    |    | -1 |    |       | [N] | x     | x     | x     | x     | x     | x     | x      | [g]    |          |
| 6  | 3  | 4  | 7  | 6H11  | 10  |       |       |       |       |       |       |        | 1      | 3112-120 |
|    |    |    |    |       | 20  | 0.8   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1      | 3112-121 |
|    |    |    |    |       | 40  |       |       |       |       |       |       |        | 1      | 3112-122 |
| 10 | 5  | 6  | 12 | 10H11 | 20  |       |       |       |       |       |       |        | 2      | 3112-123 |
|    |    |    |    |       | 50  |       | 1.5   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7    | 2      | 3112-124 |
|    |    |    |    |       | 100 |       |       |       |       |       |       |        | 2      | 3112-125 |
| 10 | 6  | 10 | 12 | 10H11 | 40  |       |       |       | 1.7   | 1.9   | 1.9   | 1.9    | 2      | 3112-126 |
|    |    |    |    |       | 75  |       |       |       |       |       |       |        | 2      | 3112-127 |
|    |    |    |    |       | 150 |       |       |       |       |       |       |        | 2      | 3112-128 |
| 12 | 8  | 13 | 14 | 12H11 | 50  |       |       |       |       | 2.4   | 2.6   | 2.6    | 8      | 3112-129 |
|    |    |    |    |       | 100 |       |       |       |       |       |       |        | 8      | 3112-130 |
|    |    |    |    |       | 200 |       |       |       |       |       |       |        | 8      | 3112-131 |
| 16 | 10 | 16 | 18 | 16H11 | 100 |       |       |       |       |       | 3.1   | 3.4    | 16     | 3112-132 |
|    |    |    |    |       | 200 |       |       |       |       |       |       |        | 16     | 3112-133 |
|    |    |    |    |       | 300 |       |       |       |       |       |       |        | 16     | 3112-134 |

### Without sealing

Elements of range 3122-2XX without the extra sealing are suitable for assembly and welding.

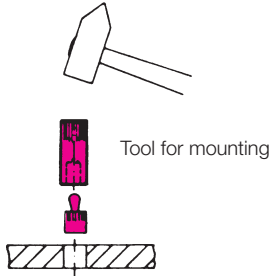


| A  | B  | C    | D  | H     | F   | y=1.0 | y=2.0 | y=3.0 | y=4.5 | y=6.0 | y=8.0 | y≥10.0 | Weight | Part-no. |
|----|----|------|----|-------|-----|-------|-------|-------|-------|-------|-------|--------|--------|----------|
|    |    | -1   |    |       | [N] | x     | x     | x     | x     | x     | x     | x      | [g]    |          |
| 6  | 3  | 5.0  | 7  | 6H11  | 10  |       |       |       |       |       |       |        | 1      | 3112-000 |
|    |    |      |    |       | 20  | 0.8   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0    | 1      | 3112-001 |
|    |    |      |    |       | 40  |       |       |       |       |       |       |        | 1      | 3112-002 |
| 10 | 5  | 7.7  | 11 | 10H11 | 20  |       |       |       |       |       |       |        | 2      | 3112-003 |
|    |    |      |    |       | 50  |       | 1.5   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7    | 2      | 3112-004 |
|    |    |      |    |       | 100 |       |       |       |       |       |       |        | 2      | 3112-005 |
| 10 | 6  | 11.6 | 11 | 10H11 | 40  |       |       |       | 1.7   | 1.9   | 1.9   | 1.9    | 2      | 3112-006 |
|    |    |      |    |       | 75  |       |       |       |       |       |       |        | 2      | 3112-007 |
|    |    |      |    |       | 150 |       |       |       |       |       |       |        | 2      | 3112-008 |
| 12 | 8  | 15.1 | 13 | 12H11 | 50  |       |       |       |       | 2.4   | 2.6   | 2.6    | 8      | 3112-009 |
|    |    |      |    |       | 100 |       |       |       |       |       |       |        | 8      | 3112-010 |
|    |    |      |    |       | 200 |       |       |       |       |       |       |        | 8      | 3112-011 |
| 16 | 10 | 18.2 | 17 | 16H11 | 100 |       |       |       |       |       | 3.1   | 3.4    | 16     | 3112-012 |
|    |    |      |    |       | 200 |       |       |       |       |       |       |        | 16     | 3112-013 |
|    |    |      |    |       | 300 |       |       |       |       |       |       |        | 16     | 3112-014 |



### Mounting

Tools as per chart opposite are available for mounting. Insertion into bore hole can be effected by hammer or press (see fig.).



### Tools for mounting

5 sizes as per dimension B as per chart page 1.

|    | Part-no. |
|----|----------|
| 3  | 3112-140 |
| 5  | 3112-141 |
| 6  | 3112-142 |
| 8  | 3112-143 |
| 10 | 3112-144 |

### Application examples

