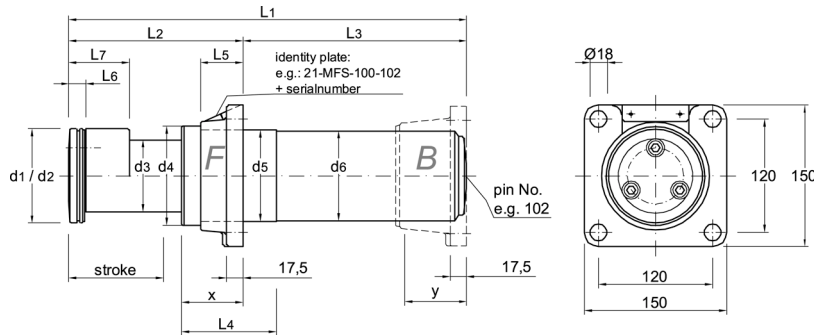


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50 mm stroke  
100 mm stroke  
150 mm stroke  
200 mm stroke

**Design:**

21M: screwable buffer head  
21H: high temperature seal

**Mounting bracket:**

F: front bracket  
B: back bracket  
CP: capsule without bracket,

**hole design:**

S: in bracket 120x120mm

| mounting brackets |    |     |
|-------------------|----|-----|
| Stroke mm         | x  | y   |
| 50                | 65 | 75  |
| 100               | 65 | 75  |
| 150               | 65 | 118 |
| 200               | 95 | 118 |

**Identification:** for instance

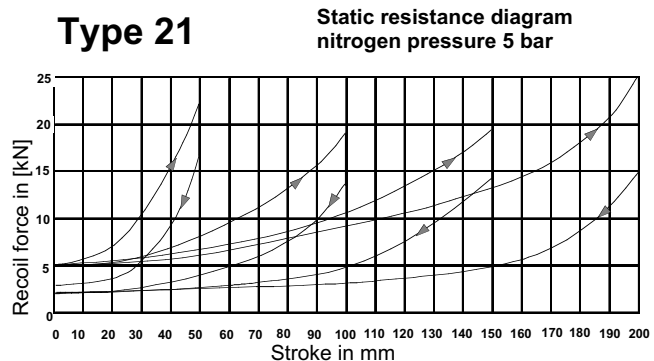
Type 21 - Design M - Mounting bracket FS - Buffer head 100 - Metering pin / tube 102

| Stroke max. | at max. energy absorption W |             | Dimensions in mm |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------|-----------------------------|-------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | $E_{kin}$ in kJ             | Endkraft kN | $L_1$            | $L_2$ | $L_3$ | $L_4$ | $L_5$ | $L_6$ | $L_7$ | $d_1$ | $d_2$ | $d_3$ | $d_4$ | $d_5$ | $d_6$ |
| 50          | 10                          | = 245       | 260              | 134   | 126   | 100   | 45    | 18    | -     | 100   | 125   | 76    | 105   | 96,5  | 95    |
| 100         | 21                          | = 245       | 420              | 184   | 236   | 100   | 45    | 18    | -     | 100   | 125   | 76    | 105   | 96,5  | 95    |
| 150         | 31                          | = 245       | 584              | 234   | 350   | 100   | 45    | 18    | -     | 100   | 125   | 76    | 105   | 96,5  | 95    |
| 200         | 42                          | = 245       | 700              | 360   | 340   | 100   | 75    | -     | 64    | 100   | 125   | 76    | 105   | 96,5  | 95    |

| Stroke mm | $W_0$ acc. Buffer application table            |             |           |            |            |            |             |             |             |             |
|-----------|--|-------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|
|           | Impact weight $W_0$ in t - metering pin number |             |           |            |            |            |             |             |             |             |
|           | up to 1,7 t                                    | up to 3,5 t | up to 7 t | up to 13 t | up to 25 t | up to 50 t | up to 100 t | up to 200 t | up to 400 t | up to 800 t |
| 50        | 051  | 052         | 053       | 054        | 055        | 056        | 057         | 058         | 059         |             |
| 100       | 101  | 102         | 103       | 104        | 105        | 106        | 107         | 108         | 109         |             |
| 150       | 151  | 152         | 153       | 154        | 155        | 156        | 157         | 158         | 159         |             |
| 200       | 201  | 202         | 203       | 204        | 205        | 206        | 207         | 208         | 209         | 210         |

= high mass met. pin, on request

| Stroke mm | Weight in kg |      |      |
|-----------|--------------|------|------|
|           | MFS          | MBS  | MCP  |
| 50        | 10,6         | 10,6 | 7,9  |
| 100       | 13,8         | 14,1 | 11   |
| 150       | 17,1         | 17,4 | 14,4 |
| 200       | 20,3         | 21,4 | 18   |



Bellows: Recommended only in case of dirty surroundings or influence of flames. Material see price list.