

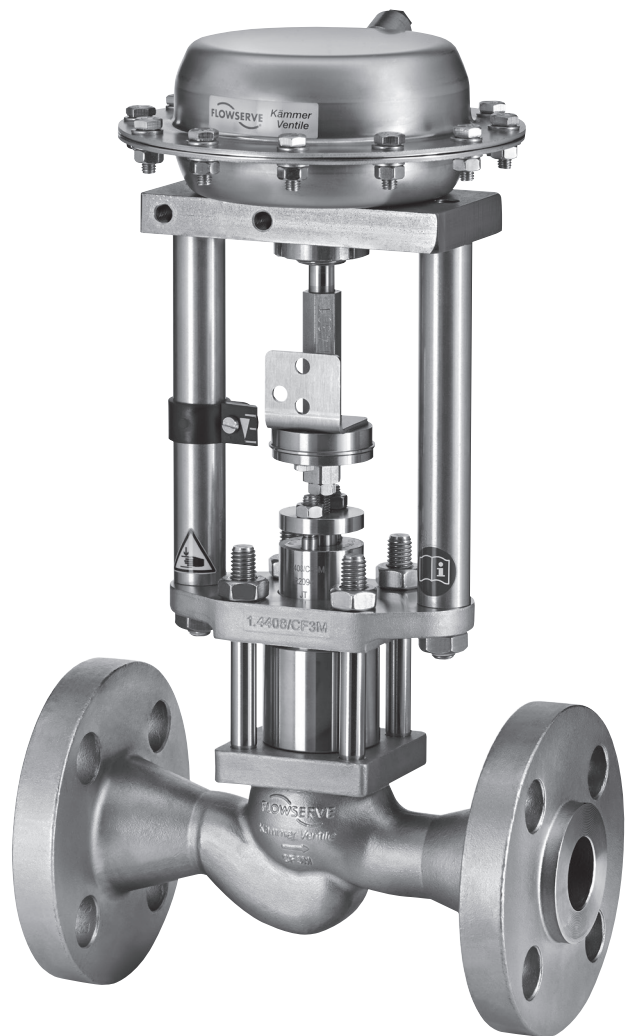


## *TECHNICAL BULLETIN*

### ***Kämmer® SmallFlow™ - 385000 / 385000 SP***

#### **Severe Service Trim Options**

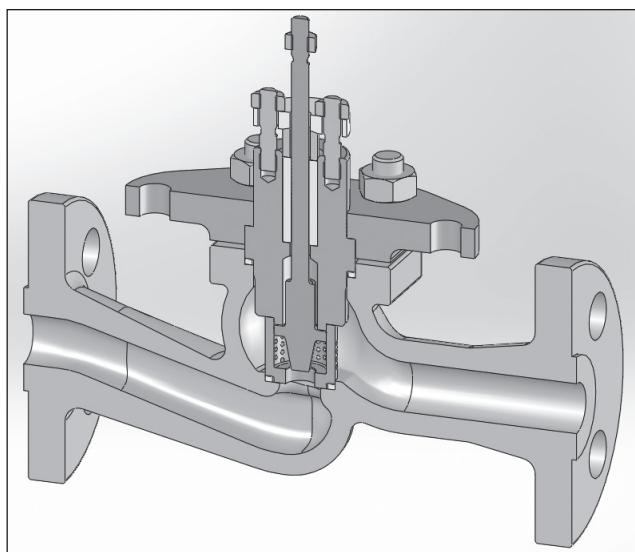
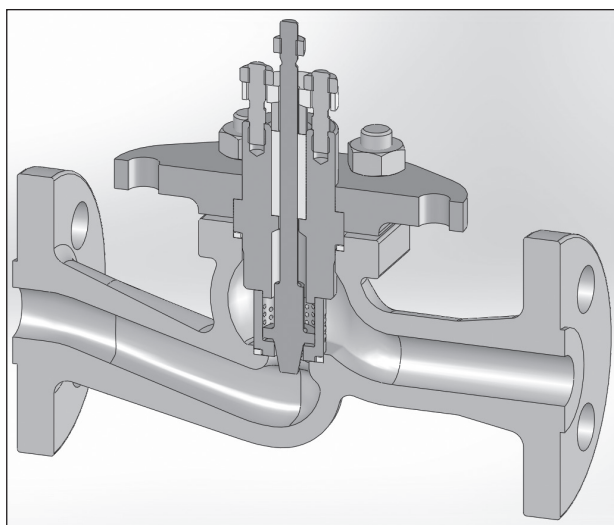
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## SmallFlow Severe Service

The SmallFlow Series 385000 offers two versions of Severe Service trim options for high pressure drops for liquid services. Type III as a radial solution with a multihole cage and a cage guided parabolic plug. This trim is suitable for clean liquid cavitation services in a standard valve configuration with standard bonnet. The Z-Trim option is based on Multi-Z technology and offers an axial flow three stage design. This trim can be used in a regular 385000SP or in a standard 385000 with an additional extension to accommodate the three stage trim. This Z-Trim option is the same option than what is used for the ½" version of the Multi-Z

### Type III Trim



| Seat diameter<br>[mm / in] |       | Plug<br>[Kvs / Cv] |     | Retainer diameter (i)<br>[mm / in] |       | Retainer<br>[Kvs / Cv] |     | Xf / Sigma |      | Total Trim<br>[Kvs / Cv] |      | Materials        |                  |
|----------------------------|-------|--------------------|-----|------------------------------------|-------|------------------------|-----|------------|------|--------------------------|------|------------------|------------------|
|                            |       |                    |     |                                    |       |                        |     |            |      |                          |      | Plug             | Seat Retainer    |
| 10                         | 0,394 | 2,5                | 2,9 | 18                                 | 0,709 | 4,0                    | 4,6 | 0,89       | 1,12 | 2,12                     | 2,5  | 1.4122 (default) | 1.4122 (default) |
|                            |       | 1,6                | 1,8 |                                    |       | 2,5                    | 2,9 | 0,89       | 1,12 | 1,35                     | 1,6  | Alloy 6          |                  |
|                            |       | 1,0                | 1,2 |                                    |       | 1,6                    | 1,8 | 0,89       | 1,12 | 0,85                     | 1,0  | 1.4548.4         | 1.4548.4         |
|                            |       | 0,63               | 0,7 |                                    |       | 1,0                    | 1,2 | 0,89       | 1,12 | 0,53                     | 0,62 |                  |                  |

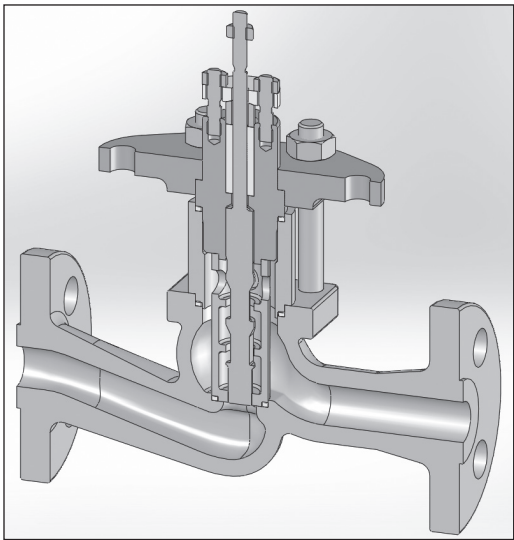
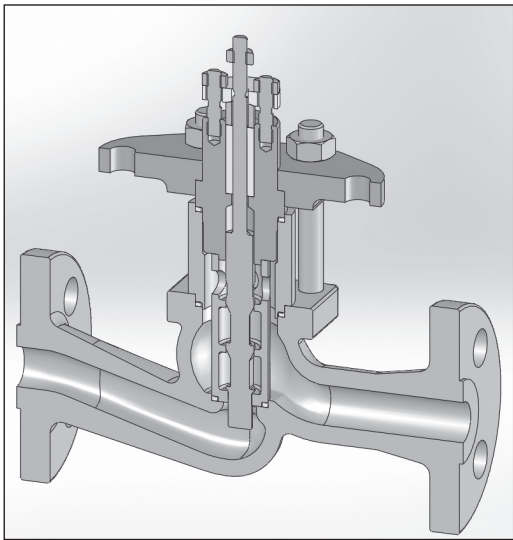


Multi-Hole retainer



Plug

**Z-Trim**



| Seat diameter<br>[mm / in] |       | Plug<br>[Kv / Cv] |      | Min. controllable<br>[Kv / Cv] |       | Characteristic   | Stages | Xf / Sigma |        | Materials         |                                |
|----------------------------|-------|-------------------|------|--------------------------------|-------|------------------|--------|------------|--------|-------------------|--------------------------------|
|                            |       |                   |      |                                |       |                  |        |            |        | Plug              | Seat Liner                     |
| 10                         | 0,394 | 1,2               | 1,4  | 0,030                          | 0,035 | linear           | 3      | 0,95       | 1,0537 | Alloy 6 (default) | 1.4404 (default)<br><br>1.4571 |
|                            |       | 0,7               | 0,81 | 0,030                          | 0,035 | linear           |        | 0,95       | 1,0537 |                   |                                |
|                            |       | 1,0               | 1,2  | 0,030                          | 0,035 | equal percentage |        | 0,95       | 1,0537 |                   |                                |



Liner



3-Stage Plug



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