



# KINGSTON

Manufacturing reliable industrial valves for industry since 1908.

## KSV Soft Seat SAFETY VALVES

## KSV Soft Seat Safety Valves

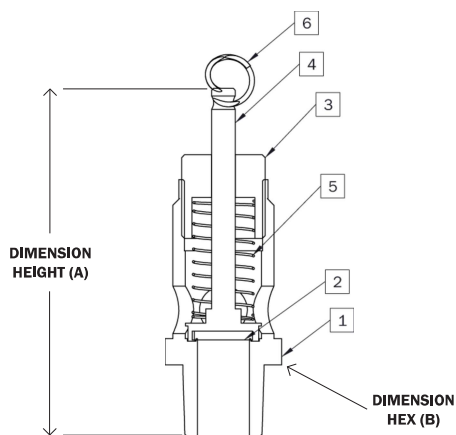
ASME Section VIII, Division I / National Board Certified  
High Capacity Flow Rates

- Designed to API 527 Seat Tightness Standard
- 1/8" NPT up to 1 1/4" NPT (BSPP and BSPT on request)
- Brass available, Stainless Steel coming soon
- Silicone disc standard (others consult factory)



| Model  | Inlet Size | Orifice Area          | NB Rated Slope  | Dimensions (inches) |         | Shipping Weight |
|--------|------------|-----------------------|-----------------|---------------------|---------|-----------------|
|        |            |                       |                 | Height (A)          | Hex (B) |                 |
| KSV10H | 1/8" NPT   | 0.031 in <sup>2</sup> | 0.467 SCFM/PSIA | 1.56"               | 0.562"  | 1.0 oz.         |
|        | 1/4" NPT   |                       |                 | 1.56"               | 0.562"  | 1.1 oz.         |
| KSV25  | 1/8" NPT   | 0.049 in <sup>2</sup> | 0.726 SCFM/PSIA | 1.89"               | 0.687"  | 1.4 oz.         |
|        | 1/4" NPT   |                       |                 | 2.01"               | 0.687"  | 1.8 oz.         |
|        | 3/8" NPT   |                       |                 | 2.01"               | 0.687"  | 1.8 oz.         |
| KSV30  | 1/2" NPT   | 0.145 in <sup>2</sup> | 1.90 SCFM/PSIA  | 2.71"               | 0.875"  | 0.27 lbs        |
| KSV35  | 1/2" NPT   | 0.233 in <sup>2</sup> | 3.40 SCFM/PSIA  | 3.66"               | 1.060"  | 0.61 lbs        |
|        | 3/4" NPT   |                       |                 | 3.66"               | 1.060"  | 0.61 lbs        |
| KSV40  | 1" NPT     | 0.478 in <sup>2</sup> | 7.07 SCFM/PSIA  | 4.66"               | 1.625"  | 1.5 lbs         |
|        | 1 1/4" NPT |                       |                 | 4.66"               | 1.625"  | 1.5 lbs         |

# Kingston KSV Soft Seat Safety Valves

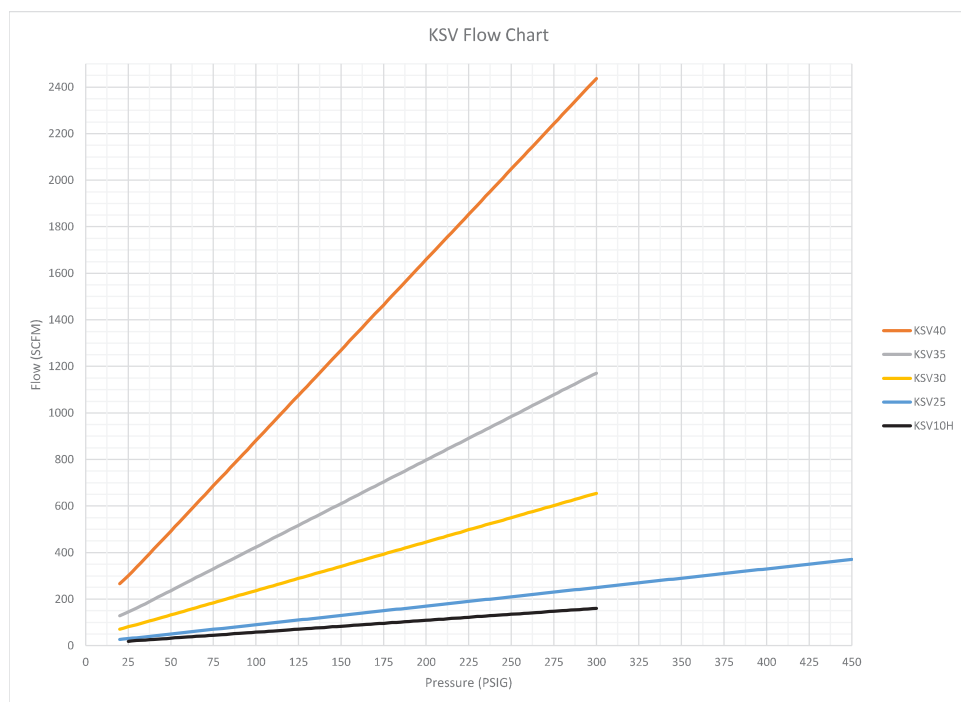


| No. | Part Name          | Materials       |
|-----|--------------------|-----------------|
| 1   | Body               | Brass           |
| 2   | Disc               | Silicone        |
| 3   | Adjusting Screw    | Brass           |
| 4   | Stem               | Brass           |
| 5   | Compression Spring | SST or M.W.     |
| 6   | Pull Ring          | Stainless Steel |

## SET PRESSURE & FLOW (SCFM)

| Set P | KSV10H | KSV25 | KSV30 | KSV35 | KSV40 |
|-------|--------|-------|-------|-------|-------|
| 20    |        | 27    | 71    | 128   | 266   |
| 25    | 19     | 31    | 81    | 145   | 301   |
| 30    | 22     | 34    | 90    | 162   | 337   |
| 35    | 24     | 38    | 101   | 180   | 376   |
| 40    | 27     | 42    | 111   | 199   | 415   |
| 45    | 29     | 46    | 121   | 218   | 453   |
| 50    | 32     | 50    | 132   | 236   | 492   |
| 55    | 35     | 54    | 142   | 255   | 531   |
| 60    | 37     | 58    | 153   | 274   | 570   |
| 65    | 40     | 62    | 163   | 293   | 609   |
| 70    | 42     | 66    | 174   | 311   | 648   |
| 75    | 45     | 70    | 184   | 330   | 687   |
| 80    | 47     | 74    | 195   | 349   | 726   |
| 85    | 50     | 78    | 205   | 367   | 764   |
| 90    | 53     | 82    | 216   | 386   | 803   |
| 95    | 55     | 86    | 226   | 405   | 842   |
| 100   | 58     | 90    | 236   | 423   | 881   |
| 105   | 60     | 94    | 247   | 442   | 920   |
| 110   | 63     | 98    | 257   | 461   | 959   |
| 115   | 65     | 102   | 268   | 480   | 998   |
| 120   | 68     | 106   | 278   | 498   | 1037  |
| 125   | 71     | 110   | 289   | 517   | 1076  |
| 130   | 73     | 114   | 299   | 536   | 1114  |
| 135   | 76     | 118   | 310   | 554   | 1153  |
| 140   | 78     | 122   | 320   | 573   | 1192  |
| 145   | 81     | 126   | 330   | 592   | 1231  |
| 150   | 83     | 130   | 341   | 610   | 1270  |
| 155   | 86     | 134   | 351   | 629   | 1309  |
| 160   | 89     | 138   | 362   | 648   | 1348  |
| 165   | 91     | 142   | 372   | 667   | 1387  |
| 170   | 94     | 146   | 383   | 685   | 1426  |
| 175   | 96     | 150   | 393   | 704   | 1464  |
| 180   | 99     | 154   | 404   | 723   | 1503  |
| 185   | 101    | 158   | 414   | 741   | 1542  |
| 190   | 104    | 162   | 425   | 760   | 1581  |
| 195   | 107    | 166   | 435   | 779   | 1620  |
| 200   | 109    | 170   | 445   | 797   | 1659  |
| 205   | 112    | 174   | 456   | 816   | 1698  |
| 210   | 114    | 178   | 466   | 835   | 1737  |
| 215   | 117    | 182   | 477   | 854   | 1775  |
| 220   | 119    | 186   | 487   | 872   | 1814  |
| 225   | 122    | 190   | 498   | 891   | 1853  |
| 230   | 125    | 194   | 508   | 910   | 1892  |
| 235   | 127    | 198   | 519   | 928   | 1931  |
| 240   | 130    | 202   | 529   | 947   | 1970  |
| 245   | 132    | 206   | 539   | 966   | 2009  |
| 250   | 135    | 210   | 550   | 984   | 2048  |
| 255   | 137    | 214   | 560   | 1003  | 2087  |
| 260   | 140    | 218   | 571   | 1022  | 2125  |
| 265   | 142    | 222   | 581   | 1041  | 2164  |
| 270   | 145    | 226   | 592   | 1059  | 2203  |
| 275   | 148    | 230   | 602   | 1078  | 2242  |
| 280   | 150    | 234   | 613   | 1097  | 2281  |
| 285   | 153    | 238   | 623   | 1115  | 2320  |
| 290   | 155    | 242   | 634   | 1134  | 2359  |
| 295   | 158    | 246   | 644   | 1153  | 2398  |
| 300   | 160    | 250   | 654   | 1171  | 2437  |

## Flow Capacity Information



## Ordering Information

**KSV**  -  -  -

**MODEL NUMBER**

- 10H
- 25
- 30
- 35
- 40

**OPTIONS**

CR = Stainless Steel  
 F = FKM, Fluoroelastomer Disc  
 P = Steam\* (Consult Factory)  
 X = O<sub>2</sub> Cleaning  
 Z = Thread Sealant  
 E = EPDM Disc (Consult Factory)

**SIZE**

1 = 1/8"  
 2 = 1/4"  
 3 = 3/8"  
 4 = 1/2"  
 5 = 3/4"  
 6 = 1"  
 7 = 1 1/4"

**SET PSI**

NPT Standard  
 B = BSPT (on request)  
 G = BSPP (on request)

(Multiples Allowed, Lead Time Subject to Availability)

\*For Higher KSV25 Pressure Settings, Contact Kingston.