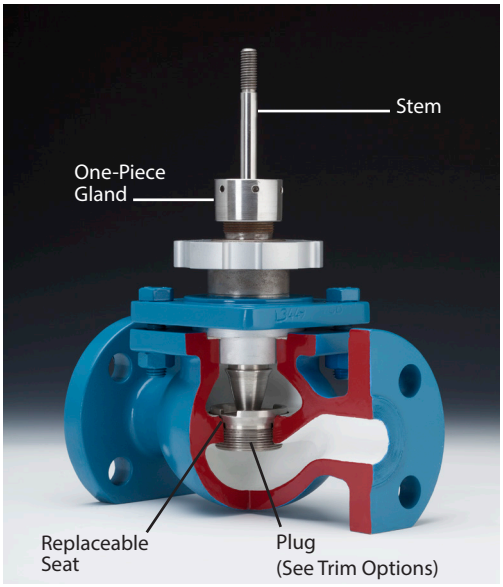
# DFT® LSV-100®

The LSV-100® Control Valve is an economical control valve designed for flanged applications. Trim is replaceable in the field through the bonnet. Construction is Carbon or Stainless Steel with stainless steel internals. Other materials of construction are available upon request. Can be used for modulating control or for on/off gas, liquid and steam applications. Class IV shutoff is standard.

## FEATURES:

- 3/4" to 4"
- ANSI 150 and 300
- Carbon Steel and Alloy Steel
- ANSI RF ends
- Top entry
- Globe design
- Characterized trim — Equal Percentage, Linear, Quick Opening
- Pneumatic Actuation




| LSV-100 Maximum Flow Coefficient | | | | | | |
|---|---|---|---|---|---|---|
| Size NPS | 3/4 | 1 | 1.5 | 2 | 3 | 4 |
| Size DN | 20 | 25 | 40 | 50 | 80 | 100 |
| Cv (Kv) | 8 (7) | 13 (11) | 30 (26) | 50 (40) | 117 (100) | 176 (150) |

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# DFT® LSV-100®

| MATERIALS OF CONSTRUCTION* | | |
|---|---|---|
| COMPONENT | CARBON STEEL | ALLOY STEEL |
| Body | A216 WCB | A351 CF8M |
| Bonnet | A216 WCB | A351 CF8M |
| Stem | 410 SS | |
| Guide | Nitronic® 60 | |
| Plug | 410 SS | |
| Gland | 410 SS | |
| Follower | 410 SS | |
| Seat | 410 SS | |
| Packing | Flexible Graphite or Teflon® | |
| Bonnet Seal | Flexible Graphite/316 | |
| Bonnet Bolting | A193 B7/A 194 2H | |

*Standard materials of construction are shown. These materials can be modified for special applications. Contact the factory for more information.

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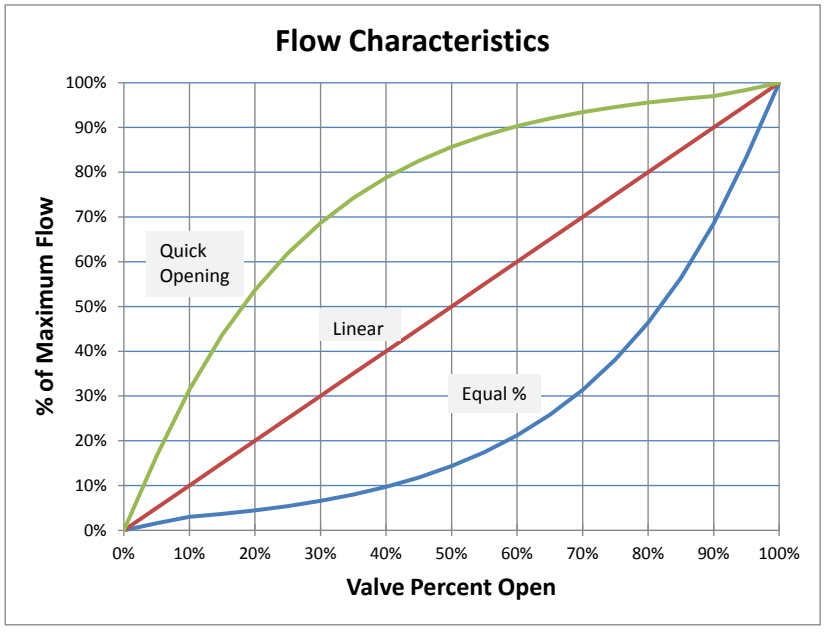
## TRIM OPTIONS

End user specifications are used to determine the appropriate valve configuration for maximum performance. Valve trim is interchangeable, offering reduced port, standard port and full port options in the same valve body.

Fast (quick-opening) for on/off service

Linear for superior mid-range control

Equal percentage for best low range control

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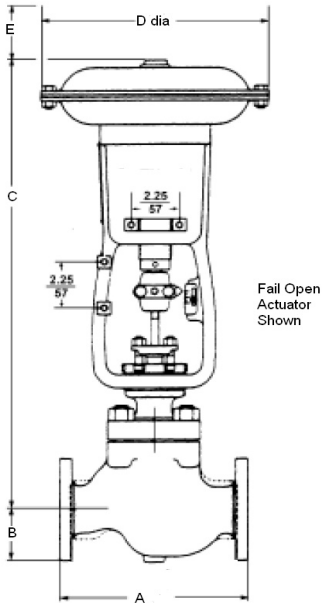
| Size | Class | A in (mm) | B in (mm) | C in (mm) | D in (mm) | E in (mm) | Weight LB (Kg) |
|---|---|---|---|---|---|---|---|
| 0.75 | 150 | 7.25 (184) | 2.38 (60) | 13.19 (335) | 10.83 (275) | 4.6 (117) | 71 (32) |
| | 300 | 7.63 (194) | 2.38 (60) | 13.19 (335) | 10.83 (275) | 4.6 (117) | 77 (35) |
| 1 | 150 | 7.25 (184) | 2.38 (60) | 13.19 (335) | 10.83 (275) | 4.6 (117) | 71 (32) |
| | 300 | 7.75 (197) | 2.38 (60) | 13.19 (335) | 10.83 (275) | 4.6 (117) | 77 (35) |
| 1.5 | 150 | 8.75 (222) | 3.19 (81) | 14.0 (356) | 10.83 (275) | 4.6 (117) | 84(38) |
| | 300 | 9.25 (235) | 3.19 (81) | 14.0 (356) | 10.83 (275) | 4.6 (117) | 93 (42) |
| 2 | 150 | 10.0 (254) | 3.38 (86) | 17.13 (435) | 13.78 (350) | 4.6 (117) | 220 (100) |
| | 300 | 10.5 (267) | 3.38 (86) | 17.13 (435) | 13.78 (350) | 4.6 (117) | 243 (110) |
| 3 | 150 | 11.75 (298) | 4.5 (118) | 18.31 (465) | 13.78 (350) | 5.6 (143) | 232 (105) |
| | 300 | 12.5 (318) | 4.5 (118) | 18.31 (465) | 13.78 (350) | 5.6 (143) | 254 (115) |
| 4 | 150 | 13.9 (354) | 5.75 (146) | | | 5.6 (143) | |
| | 300 | 14.5 (368) | 5.75 (146) | | | 5.6 (143) | |




"E" is dimension required for disassembly

| LSV-100 Pressure and Temperature Limits | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | ANSI Class 150 | | | ANSI Class 300 | | |
| Body | Packing | Min Temp | Max Temp | Max CWP | Min Temp | Max Temp | Max CWP |
| WCB | Teflon® | -20°F (-29°C) | 400°F (200°C) | 285psi (19.6bar) | -20°F (-29°C) | 400°F (200°C) | 740psi (51bar) |
| | Graphite | -20°F (-29°C) | 800°F (425°C) | 285psi (19.6bar) | -20°F (-29°C) | 800°F (425°C) | 740psi (51bar) |
| CF8M | Teflon® | -20°F (-29°C) | 400°F (200°C) | 275psi (19.0bar) | -20°F (-29°C) | 400°F (200°C) | 720psi (49.6bar) |
| | Graphite | -20°F (-29°C) | 800°F (425°C) | 275psi (19.0bar) | -20°F (-29°C) | 800°F (425°C) | 720psi (49.6bar) |

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# DFT® LSV-100®

## LSV-100 Linear Trim Sizing Coefficients

Model LSV-100 Linear Trim FL = .94 All Sizes Xt = .75 All Sizes

| Size | Port | Travel | Coefficient | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/4 | C | | Cv | 0.5 | 0.9 | 1.4 | 1.9 | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 0.4 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4 |
| 3/4 | D | | Cv | 0.8 | 1.6 | 2.5 | 3.3 | 4.1 | 4.9 | 5.7 | 6.6 | 7.4 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 0.7 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 7 |
| 1 | C | | Cv | 0.5 | 0.9 | 1.4 | 1.9 | 2.4 | 2.8 | 3.3 | 3.8 | 4.2 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 0.4 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4 |
| 1 | D | | Cv | 0.8 | 1.6 | 2.5 | 3.3 | 4.1 | 4.9 | 5.7 | 6.6 | 7.4 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 0.7 | 1.4 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 7 |
| 1 | E | | Cv | 1.3 | 2.6 | 3.9 | 5.2 | 6.5 | 7.7 | 9.0 | 10.3 | 11.6 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 1.1 | 2.2 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 11 |
| 1 1/2 | E | | Cv | 1.3 | 2.6 | 3.9 | 5.2 | 6.5 | 7.7 | 9.0 | 10.3 | 11.6 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 1.1 | 2.2 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 11 |
| 1 1/2 | F | | Cv | 2.1 | 4.2 | 6.3 | 8.4 | 10.6 | 12.7 | 14.8 | 16.9 | 19.0 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 1.8 | 3.6 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 14.4 | 16.2 | 18 |
| 1 1/2 | G | | Cv | 3.0 | 6.1 | 9.1 | 12.2 | 15.2 | 18.2 | 21.3 | 24.3 | 27.4 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 2.6 | 5.2 | 7.8 | 10.4 | 13.0 | 15.6 | 18.2 | 20.8 | 23.4 | 26 |
| 2 | F | | Cv | 2.1 | 4.2 | 6.3 | 8.4 | 10.6 | 12.7 | 14.8 | 16.9 | 19.0 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 1.8 | 3.6 | 5.4 | 7.2 | 9.0 | 10.8 | 12.6 | 14.4 | 16.2 | 18 |
| 2 | G | | Cv | 3.0 | 6.1 | 9.1 | 12.2 | 15.2 | 18.2 | 21.3 | 24.3 | 27.4 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 2.6 | 5.2 | 7.8 | 10.4 | 13.0 | 15.6 | 18.2 | 20.8 | 23.4 | 26 |
| 2 | H | | Cv | 5.0 | 10.1 | 15.1 | 20.1 | 25.2 | 30.2 | 35.2 | 40.2 | 45.3 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 4.0 | 8.0 | 12.0 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40 |
| 3 | H | | Cv | 5.0 | 10.1 | 15.1 | 20.1 | 25.2 | 30.2 | 35.2 | 40.2 | 45.3 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 4.0 | 8.0 | 12.0 | 16.0 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40 |
| 3 | J | | Cv | 8.0 | 15.9 | 23.9 | 31.8 | 39.8 | 47.8 | 55.7 | 63.7 | 71.6 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 6.8 | 13.6 | 20.4 | 27.2 | 34.0 | 40.8 | 47.6 | 54.4 | 61.2 | 68 |
| 3 | K | | Cv | 11.7 | 23.4 | 35.1 | 46.8 | 58.5 | 70.2 | 81.9 | 93.6 | 105.3 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100 |
| 4 | J | | Cv | 8.0 | 15.9 | 23.9 | 31.8 | 39.8 | 47.8 | 55.7 | 63.7 | 71.6 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 6.8 | 13.6 | 20.4 | 27.2 | 34.0 | 40.8 | 47.6 | 54.4 | 61.2 | 68 |
| 4 | K | | Cv | 11.7 | 23.4 | 35.1 | 46.8 | 58.5 | 70.2 | 81.9 | 93.6 | 105.3 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 10.0 | 20.0 | 30.0 | 40.0 | 50.0 | 60.0 | 70.0 | 80.0 | 90.0 | 100 |
| 4 | L | | Cv | 17.6 | 35.2 | 52.8 | 70.4 | 88.0 | 105.6 | 123.2 | 140.8 | 158.4 | 176 |
| | 3.54 (73) | 1.18 (30) | Kv | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 | 105.0 | 120.0 | 135.0 | 150 |



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# DFT® LSV-100®

## LSV-100 Equal % Trim Sizing Coefficients

Model LSV-100 Equal % Trim FL = .94 All Sizes Xt = .75 All Sizes

| Size | Port | Travel | Coefficient | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/4 | C | | Cv | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.0 | 1.5 | 2.2 | 3.2 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.3 | 1.9 | 2.7 | 4 |
| 3/4 | D | | Cv | 0.2 | 0.4 | 0.5 | 0.8 | 1.2 | 1.7 | 2.6 | 3.8 | 5.6 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 0.2 | 0.3 | 0.5 | 0.7 | 1.0 | 1.5 | 2.2 | 3.2 | 4.8 | 7 |
| 1 | C | | Cv | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.0 | 1.5 | 2.2 | 3.2 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.3 | 1.9 | 2.7 | 4 |
| 1 | D | | Cv | 0.2 | 0.4 | 0.5 | 0.8 | 1.2 | 1.7 | 2.6 | 3.8 | 5.6 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 0.2 | 0.3 | 0.5 | 0.7 | 1.0 | 1.5 | 2.2 | 3.2 | 4.8 | 7 |
| 1 | E | | Cv | 0.4 | 0.6 | 0.8 | 1.3 | 1.8 | 2.7 | 4.0 | 6.0 | 8.8 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 0.3 | 0.5 | 0.7 | 1.1 | 1.6 | 2.3 | 3.4 | 5.1 | 7.5 | 11 |
| 1 1/2 | E | | Cv | 0.4 | 0.6 | 0.8 | 1.3 | 1.8 | 2.7 | 4.0 | 6.0 | 8.8 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 0.3 | 0.5 | 0.7 | 1.1 | 1.6 | 2.3 | 3.4 | 5.1 | 7.5 | 11 |
| 1 1/2 | F | | Cv | 0.6 | 0.9 | 1.4 | 2.0 | 3.0 | 4.5 | 6.6 | 9.8 | 14.5 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 0.5 | 0.8 | 1.2 | 1.7 | 2.6 | 3.8 | 5.6 | 8.3 | 12.3 | 18 |
| 1 1/2 | G | | Cv | 0.9 | 1.3 | 2.0 | 2.9 | 4.4 | 6.4 | 9.5 | 14.1 | 20.8 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 0.8 | 1.2 | 1.7 | 2.5 | 3.7 | 5.5 | 8.2 | 12.1 | 17.8 | 26 |
| 2 | F | | Cv | 0.6 | 0.9 | 1.4 | 2.0 | 3.0 | 4.5 | 6.6 | 9.8 | 14.5 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 0.5 | 0.8 | 1.2 | 1.7 | 2.6 | 3.8 | 5.6 | 8.3 | 12.3 | 18 |
| 2 | G | | Cv | 0.9 | 1.3 | 2.0 | 2.9 | 4.4 | 6.4 | 9.5 | 14.1 | 20.8 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 0.8 | 1.2 | 1.7 | 2.5 | 3.7 | 5.5 | 8.2 | 12.1 | 17.8 | 26 |
| 2 | H | | Cv | 1.5 | 2.2 | 3.3 | 4.9 | 7.2 | 10.7 | 15.8 | 23.3 | 34.5 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 1.2 | 1.8 | 2.6 | 3.9 | 5.7 | 8.5 | 12.5 | 18.5 | 27.4 | 40 |
| 3 | H | | Cv | 1.5 | 2.2 | 3.3 | 4.9 | 7.2 | 10.7 | 15.8 | 23.3 | 34.5 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 1.2 | 1.8 | 2.6 | 3.9 | 5.7 | 8.5 | 12.5 | 18.5 | 27.4 | 40 |
| 3 | J | | Cv | 2.4 | 3.5 | 5.2 | 7.7 | 11.4 | 16.9 | 25.0 | 36.9 | 54.6 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 2.0 | 3.0 | 4.5 | 6.6 | 9.8 | 14.4 | 21.3 | 31.5 | 46.6 | 68 |
| 3 | K | | Cv | 3.5 | 5.2 | 7.7 | 11.3 | 16.8 | 24.8 | 36.7 | 54.3 | 80.2 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 3.0 | 4.4 | 6.6 | 9.7 | 14.3 | 21.2 | 31.4 | 46.4 | 68.6 | 100 |
| 4 | J | | Cv | 2.4 | 3.5 | 5.2 | 7.7 | 11.4 | 16.9 | 25.0 | 36.9 | 54.6 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 2.0 | 3.0 | 4.5 | 6.6 | 9.8 | 14.4 | 21.3 | 31.5 | 46.6 | 68 |
| 4 | K | | Cv | 3.5 | 5.2 | 7.7 | 11.3 | 16.8 | 24.8 | 36.7 | 54.3 | 80.2 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 3.0 | 4.4 | 6.6 | 9.7 | 14.3 | 21.2 | 31.4 | 46.4 | 68.6 | 100 |
| 4 | L | | Cv | 5.3 | 7.8 | 11.5 | 17.1 | 25.2 | 37.3 | 55.2 | 81.6 | 120.7 | 176 |
| | 3.54 (73) | 1.18 (30) | Kv | 4.5 | 6.7 | 9.8 | 14.6 | 21.5 | 31.8 | 47.0 | 69.6 | 102.8 | 150 |

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# DFT® LSV-100®

## Fast Opening Trim Sizing Coefficients

Model LSV-100 Fast Opening FL = .94 All Sizes Xt = .75 All Sizes

| Size | Port | Travel | Coefficient | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/4 | C | | Cv | 1.5 | 2.5 | 3.2 | 3.7 | 4.0 | 4.2 | 4.4 | 4.5 | 4.6 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 1.2 | 2.2 | 2.7 | 3.2 | 3.4 | 3.6 | 3.7 | 3.8 | 3.9 | 4 |
| 3/4 | D | | Cv | 2.5 | 4.4 | 5.6 | 6.5 | 7.0 | 7.4 | 7.7 | 7.8 | 8.0 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 2.2 | 3.8 | 4.8 | 5.5 | 6.0 | 6.3 | 6.5 | 6.7 | 6.8 | 7 |
| 1 | C | | Cv | 1.5 | 2.5 | 3.2 | 3.7 | 4.0 | 4.2 | 4.4 | 4.5 | 4.6 | 4.7 |
| | .59 (15) | .79 (20) | Kv | 1.2 | 2.2 | 2.7 | 3.2 | 3.4 | 3.6 | 3.7 | 3.8 | 3.9 | 4 |
| 1 | D | | Cv | 2.5 | 4.4 | 5.6 | 6.5 | 7.0 | 7.4 | 7.7 | 7.8 | 8.0 | 8.2 |
| | .75 (19) | .79 (20) | Kv | 2.2 | 3.8 | 4.8 | 5.5 | 6.0 | 6.3 | 6.5 | 6.7 | 6.8 | 7 |
| 1 | E | | Cv | 4.0 | 7.0 | 8.9 | 10.2 | 11.1 | 11.6 | 12.1 | 12.3 | 12.5 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 3.4 | 5.9 | 7.6 | 8.7 | 9.4 | 9.9 | 10.3 | 10.5 | 10.7 | 11 |
| 1 1/2 | E | | Cv | 4.0 | 7.0 | 8.9 | 10.2 | 11.1 | 11.6 | 12.1 | 12.3 | 12.5 | 12.9 |
| | .94 (24) | .79 (20) | Kv | 3.4 | 5.9 | 7.6 | 8.7 | 9.4 | 9.9 | 10.3 | 10.5 | 10.7 | 11 |
| 1 1/2 | F | | Cv | 6.5 | 11.4 | 14.5 | 16.6 | 18.1 | 19.1 | 19.7 | 20.2 | 20.5 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 5.6 | 9.7 | 12.4 | 14.2 | 15.4 | 16.3 | 16.8 | 17.2 | 17.5 | 18 |
| 1 1/2 | G | | Cv | 9.4 | 16.4 | 20.9 | 24.0 | 26.0 | 27.5 | 28.4 | 29.1 | 29.5 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 8.1 | 14.0 | 17.8 | 20.5 | 22.3 | 23.5 | 24.3 | 24.8 | 25.2 | 26 |
| 2 | F | | Cv | 6.5 | 11.4 | 14.5 | 16.6 | 18.1 | 19.1 | 19.7 | 20.2 | 20.5 | 21.1 |
| | 1.26 (32) | .79 (20) | Kv | 5.6 | 9.7 | 12.4 | 14.2 | 15.4 | 16.3 | 16.8 | 17.2 | 17.5 | 18 |
| 2 | G | | Cv | 9.4 | 16.4 | 20.9 | 24.0 | 26.0 | 27.5 | 28.4 | 29.1 | 29.5 | 30.4 |
| | 1.46 (37) | .79 (20) | Kv | 8.1 | 14.0 | 17.8 | 20.5 | 22.3 | 23.5 | 24.3 | 24.8 | 25.2 | 26 |
| 2 | H | | Cv | 15.6 | 27.2 | 34.5 | 39.6 | 43.1 | 45.4 | 47.0 | 48.1 | 48.8 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 12.4 | 21.6 | 27.5 | 31.5 | 34.3 | 36.1 | 37.4 | 38.2 | 38.8 | 40 |
| 3 | H | | Cv | 15.6 | 27.2 | 34.5 | 39.6 | 43.1 | 45.4 | 47.0 | 48.1 | 48.8 | 50.3 |
| | 1.89 (48) | 1.18 (30) | Kv | 12.4 | 21.6 | 27.5 | 31.5 | 34.3 | 36.1 | 37.4 | 38.2 | 38.8 | 40 |
| 3 | J | | Cv | 24.7 | 43.0 | 54.6 | 62.7 | 68.2 | 71.9 | 74.4 | 76.1 | 77.2 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 21.1 | 36.7 | 46.7 | 53.6 | 58.2 | 61.4 | 63.5 | 65.0 | 66.0 | 68 |
| 3 | K | | Cv | 36.3 | 63.2 | 80.3 | 92.2 | 100.2 | 105.7 | 109.3 | 111.8 | 113.5 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 31.0 | 54.0 | 68.6 | 78.8 | 85.7 | 90.3 | 93.4 | 95.6 | 97.0 | 100 |
| 4 | J | | Cv | 24.7 | 43.0 | 54.6 | 62.7 | 68.2 | 71.9 | 74.4 | 76.1 | 77.2 | 79.6 |
| | 2.44 (62) | 1.18 (30) | Kv | 21.1 | 36.7 | 46.7 | 53.6 | 58.2 | 61.4 | 63.5 | 65.0 | 66.0 | 68 |
| 4 | K | | Cv | 36.3 | 63.2 | 80.3 | 92.2 | 100.2 | 105.7 | 109.3 | 111.8 | 113.5 | 117 |
| | 2.87 (73) | 1.18 (30) | Kv | 31.0 | 54.0 | 68.6 | 78.8 | 85.7 | 90.3 | 93.4 | 95.6 | 97.0 | 100 |
| 4 | L | | Cv | 54.6 | 95.0 | 120.8 | 138.7 | 150.8 | 158.9 | 164.5 | 168.2 | 170.7 | 176 |
| | 3.54 (73) | 1.18 (30) | Kv | 46.5 | 81.0 | 103.0 | 118.2 | 128.5 | 135.5 | 140.2 | 143.3 | 145.5 | 150 |



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# DFT® LSV-100®

## ORDERING INFORMATION

Please specify the following:

| | | |
|---|---|---|
| Size | Trim Size | Actuator Failure Mode |
| Class | Characteristic | Actuator Accessories |
| End connection | Packing | |
| Body Material | Leakage Class | |

### LSV-100 (Includes Diaphragm Actuator Only)

| Size | Class | Ends | Body Mat'l | Trim Size * | Trim Mat'l | Trim Char.** | Packing/ Seals | Leakage Class | Valve Part # |
|---|---|---|---|---|---|---|---|---|---|
| 0.75 | 150 | RF | WCB | C or D | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LDDARA(B,C,D)4(E,L,F)GC1D4 |
| | 300 | | | | | | | | LDDBRA(B,C,D)4(E,L,F)GC1D4 |
| 1 | 150 | RF | WCB | C,D or E | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LEEARA(C,D,E)4(E,L,F)GC1D4 |
| | 300 | | | | | | | | LEEBRA(C,D,E)4(E,L,F)GC1D4 |
| 1.5 | 150 | RF | WCB | E, F or G | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LGGARA(E,F,G)4(E,L,F)GC1D4 |
| | 300 | | | | | | | | LGGBRA(E,F,G)4(E,L,F)GC1D4 |
| 2 | 150 | RF | WCB | F, G or H | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LHHARA(F,G,H)4(E,L,F)GC2D4 |
| | 300 | | | | | | | | LHHBRA(F,G,H)4(E,L,F)GC2D4 |
| 3 | 150 | RF | WCB | H, J or K | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LKKARA(H,J,K)4(E,L,F)GC2D4 |
| | 300 | | | | | | | | LKKBRA(H,J,K)4(E,L,F)GC2D4 |
| 4 | 150 | RF | WCB | J, K or L | 410 SS | E, L or F | Graphite/ CFG | Class IV (4) | LLLARA(J,K,L)4(E,L,F)GC2D4 |
| | 300 | | | | | | | | LLLBRA(J,K,L)4(E,L,F)GC2D4 |

* Standard (Full sized) Trim is the highest letter code. Single reduced port trim is one letter lower, double reduced port trim is two letters lower.
See pages 4, 5 and 6 for trim designation.
** E = Equal %; L = Linear; F = Fast Opening

### LSV-100 Actuator Part Number

| Size | Class | Fail Open (U) or Close (C) | Handwheel | Airset | Positioner | Solenoid & Limitswitch | Actuator Part # |
|---|---|---|---|---|---|---|---|
| All | | Choose (U,C) | N = None; Handwheel not currently available | A = Included<br>N = None | D = Digital<br>E = E-P<br>P = P-P | L= Limitswitch<br>S = Solenoid | Assigned by Factory |

| Standard Accessories | | | |
|---|---|---|---|
| Positioner | Digital | VAC D400 | Other accessories available, consult factory |
| | E-P | VAC V200E | |
| | P-P | VAC V200P | |
| Airset | | ControlAir Type 300 | |
| Solenoid | | ASCO 8320 | |
| Limitswitch | | TopWorx | |

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| Trim Type | | Description | Service | Leakage | Trim characteristic |
|---|---|---|---|---|---|
| LSV-100® Top Guided Trim | | Top guided, unbalanced, single seat trim. This style trim is suitable for pressure drops up to 600 psi in a non-cavitating environment. Your most economic choice for standard control applications. | Up to 4" Standard Class 150 Class 300 | Class IV | Fast Opening Linear Equal % |
| MSV-100® Venturi Ball Design | | Our unique venturi ball design provides superior control, long life and low maintenance costs for moderate pressure drop applications. The MSV-100 is designed for flanged applications. Seat replacement is accomplished on the bench. | Up to 4" Moderate Class 600 Class 900 Class 1500 | Class V | Linear |
| Hi-100® Venturi Ball Design | | This unique venturi ball design provides superior control, long life and low maintenance costs for severe pressure drop applications. The Hi-100 is designed for in-line repair using quick change trim. | Up to 12" Severe All Classes | Class V | Linear |

# Warranty

Each DFT®Inc. product is warranted against defects in material and workmanship for a period of one year after being placed in service, but not exceeding 18 months after shipment, when these products are properly installed, maintained and used within the service and temperature and pressure ranges for which they were designed and manufactured, and provided they have not been subject to accident, negligence, alteration, abuse, misuse or the like. This warranty extends to the first purchaser only. All defective material must be returned to the person from whom you purchased the product, transportation prepaid, free of any liens or encumbrances and if found to be defective will be repaired free of charge or replaced, at the warrantor's or DFT's option.

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