# Globe Valves

63-1276 V5011 Specification Data
63-1277 V5013 Specification Data
63-2519 V335X Specification Data
63-2520 V336X Specification Data

| Actuator Features | Actuator Number | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ML6425A3022 | ML6425B3013 | ML7425A3013 | ML7425B3012 | ML6420A3049 | ML6420A3056 | ML7420A3055 | ML7420A3063 | ML6421A1017 | ML7421A1032 | ML6421B1040 | ML7421B1023 |
| Stem force (lbf) | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 135 | 405 | 405 | 405 | 405 |
| Spring return in 12 sec. (Valve stem direction on power failure) | Down | Up | Down | Up | | | | | | | | |
| Stroke (in.) | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 1 1/2 | 1 1/2 |
| 0 - 10, 2 - 10 Vdc Control | | | ● | ● | | | ● | ● | | ● | | ● |
| Floating Control | ● | ● | | | ● | ● | | | ● | | ● | |
| Timing (sec.) | 90 | 90 | 90 | 90 | 60 | 30 | 60 | 30 | 95 | 95 | 175 | 175 |

**THREADED VALVES - ANSI Body Class 150, 3/4" Stroke, Semi-Red Brass Body, PTFE Packing Material**

| Valve Size | Cv | Flow[a] | Action[c] | Trim Material | 2-way Valve Number | 3-way Valve Number | Valve/Actuator Close-off Ratings (PSI)[b] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/2" | 0.73 | Equal % | Direct | Brass Plug Stainless Steel Seat | V5011N1008 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1/2" | 1.16 | Equal % | Direct | | V5011N1016 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1/2" | 1.85 | Equal % | Direct | | V5011N1024 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1/2" | 2.9 | Equal % | Direct | | V5011N1032 | V5013N1030 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1/2" | 4.7 | Equal % | Direct | | V5011N1040 | V5013N1048 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 3/4" | 7.3 | Equal % | Direct | Brass Plug (2-way)Stainless Steel (3-way) Brass Seat | V5011N1057 | V5013N1055 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1" | 11.7 | Equal % | Direct | | V5011N1065 | V5013N1063 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 230 | 230 | | |
| 1 1/4" | 18.7 | Equal % | Direct | | V5011N1073 | V5013N1071 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 230 | 230 | | |
| 1 1/2" | 29.3 | Equal % | Direct | | V5011N1081 | V5013N1089 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 230 | 230 | | |
| 2" | 46.8 | Equal % | Direct | | V5011N1099 | V5013N1097 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 126 | 126 | | |
| 2 1/2" | 63 | Equal % | Direct | Brass Plug and Seat | V5011F1105 | | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 100 | 100 | | |
| 3" | 100 | Equal % | Direct | | V5011F1113 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 61 | 61 | | |
| 1/2" | 0.73 | Linear | Direct | Stainless Steel Plug and Seat | V5011N2006 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1/2" | 1.16 | Linear | Direct | | V5011N2014 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1/2" | 1.85 | Linear | Direct | | V5011N2022 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1/2" | 2.9 | Linear | Direct | | V5011N2030 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1/2" | 4.7 | Linear | Direct | | V5011N2048 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 3/4" | 7.3 | Linear | Direct | | V5011N2055 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1" | 11.7 | Linear | Direct | | V5011N2063 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 1/4" | 18.7 | Linear | Direct | | V5011N2071 | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 1/2" | 29.3 | Linear | Direct | | V5011N2089 | | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 100 | 100 | | |
| 2" | 46.8 | Linear | Direct | | V5011N2097 | | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 100 | 100 | | |
| 2 1/2" | 63 | Linear | Direct | Brass Plug and Seat | V5011G1111 | | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 100 | 100 | | |
| 3" | 100 | Linear | Direct | | V5011G1129 | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 61 | 61 | | |
| 1/2" | 2.9 | Equal % | Reverse | Brass Plug Stainless Steel Seat | V5011N3004 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1/2" | 4.7 | Equal % | Reverse | | V5011N3012 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 3/4" | 7.3 | Equal % | Reverse | Brass Plug Intragal Brass Seat | V5011N3020 | | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | | | | |
| 1" | 11.7 | Equal % | Reverse | | V5011N3038 | | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 230 | 230 | | |
| 1 1/4" | 18.7 | Equal % | Reverse | | V5011N3046 | | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 230 | 230 | | |

**FLANGED VALVES - 3/4" Stroke for 2 1/2" and 3", 1 1/2" Stroke for 4" - 6", Cast Iron Body**

| Valve Size | Cv | Flow[a] | Action[c] | Trim/ Packing Material | ANSI 125, 2-way | ANSI 250, 2-way | ANSI 125, 3-way | ANSI 250, 3-way | Valve/Actuator Close-off Ratings (PSI) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 1/2" | 63 | Linear | Direct | Stainless Steel / EPDM | V3350A2017 | V3450A2016 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Linear | Direct | Stainless Steel / Teflon | V3350B2007 | V3450B2006 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Linear | Reverse | Stainless Steel / EPDM | V3350C2013 | V3450C2012 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Linear | Reverse | Stainless Steel / Teflon | V3350D2003 | V3450D2002 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Equal % | Direct | Stainless Steel / EPDM | V3350A2009 | V3450A2008 | V3360E2008 | V3460E2007 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Equal % | Direct | Bronze / EPDM | V3351A2008 | V3451A2007 | V3361E2007 | V3461E2006 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Equal % | Reverse | Stainless Steel / EPDM | V3350C2005 | V3450C2004 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| | 63 | Equal % | Reverse | Bronze / EPDM | V3351C2004 | V3451C2003 | | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 63 | 63 | | |
| 3" | 100 | Linear | Direct | Stainless Steel / EPDM | V3350A3015 | V3450A3006 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Linear | Direct | Stainless Steel / Teflon | V3350B3005 | V3450B3004 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Linear | Reverse | Stainless Steel / EPDM | V3350C3011 | V3450C3010 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Linear | Reverse | Stainless Steel / Teflon | V3350D3001 | V3450D3000 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Equal % | Direct | Stainless Steel / EPDM | V3350A3007 | V3450A3014 | V3360E3006 | V3460E3005 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Equal % | Direct | Bronze / EPDM | V3351A3006 | V3451A3005 | V3361E3005 | V3461E3004 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Equal % | Reverse | Stainless Steel / EPDM | V3350C3003 | V3450C3002 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| | 100 | Equal % | Reverse | Bronze / EPDM | V3351C3002 | V3451C3001 | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 45 | 45 | | |
| 4" | 160 | Linear | Direct | Stainless Steel / EPDM | V3350A4013 | V3450A4012 | | | | | | | | | | | | | 25 | 25 |
| | 160 | Linear | Direct | Stainless Steel / Teflon | V3350B4003 | V3450B4002 | | | | | | | | | | | | | 25 | 25 |
| | 160 | Linear | Reverse | Stainless Steel / EPDM | V3350C4019 | V3450C4018 | | | | | | | | | | | | | 25 | 25 |
| | 160 | Linear | Reverse | Stainless Steel / Teflon | V3350D4009 | V3450D4008 | | | | | | | | | | | | | 25 | 25 |
| | 160 | Equal % | Direct | Stainless Steel / EPDM | V3350A4005 | V3450A4004 | V3360E4004 | V3460E4003 | | | | | | | | | | | 25 | 25 |
| | 160 | Equal % | Direct | Bronze / EPDM | V3351A4004 | V3451A4003 | V3361E4003 | V3461E4002 | | | | | | | | | | | 25 | 25 |
| | 160 | Equal % | Reverse | Stainless Steel / EPDM | V3350C4001 | V3450C4000 | | | | | | | | | | | | | 25 | 25 |
| | 160 | Equal % | Reverse | Bronze / EPDM | V3351C4000 | V3451C4009 | | | | | | | | | | | | | 25 | 25 |
| 5" | 250 | Linear | Direct | Stainless Steel / EPDM | V3350A5010 | V3450A5019 | | | | | | | | | | | | | 16 | 16 |
| | 250 | Linear | Direct | Stainless Steel / Teflon | V3350B5000 | V3450B5009 | | | | | | | | | | | | | 16 | 16 |
| | 250 | Linear | Reverse | Stainless Steel / EPDM | V3350C5016 | V3450C5015 | | | | | | | | | | | | | 16 | 16 |
| | 250 | Linear | Reverse | Stainless Steel / Teflon | V3350D5006 | V3450D5005 | | | | | | | | | | | | | 16 | 16 |
| | 250 | Equal % | Direct | Stainless Steel / EPDM | V3350A5002 | V3450A5001 | V3360E5001 | V3460E5000 | | | | | | | | | | | 16 | 16 |
| | 250 | Equal % | Direct | Bronze / EPDM | V3351A5001 | V3451A5000 | V3361E5000 | V3461E5009 | | | | | | | | | | | 16 | 16 |
| | 250 | Equal % | Reverse | Stainless Steel / EPDM | V3350C5008 | V3450C5007 | | | | | | | | | | | | | 16 | 16 |
| | 250 | Equal % | Reverse | Bronze / EPDM | V3351C5007 | V3451C5006 | | | | | | | | | | | | | 16 | 16 |
| 6" | 400 | Linear | Direct | Stainless Steel / EPDM | V3350A6018 | V3450A6017 | | | | | | | | | | | | | 11 | 11 |
| | 400 | Linear | Direct | Stainless Steel / Teflon | V3350B6008 | V3450B6007 | | | | | | | | | | | | | 11 | 11 |
| | 400 | Linear | Reverse | Stainless Steel / EPDM | V3350C6014 | V3450C6013 | | | | | | | | | | | | | 11 | 11 |
| | 400 | Linear | Reverse | Stainless Steel / Teflon | V3350D6004 | V3450D6003 | | | | | | | | | | | | | 11 | 11 |
| | 400 | Equal % | Direct | Stainless Steel / EPDM | V3350A6000 | V3450A6009 | V3360E6009 | V3460E6008 | | | | | | | | | | | 11 | 11 |
| | 400 | Equal % | Direct | Bronze / EPDM | V3351A6009 | V3451A6008 | V3361E6008 | V3461E6007 | | | | | | | | | | | 11 | 11 |
| | 400 | Equal % | Reverse | Stainless Steel / EPDM | V3350C6006 | V3450C6005 | | | | | | | | | | | | | 11 | 11 |
| | 400 | Equal % | Reverse | Bronze / EPDM | V3351C6005 | V3451C6004 | | | | | | | | | | | | | 11 | 11 |

[a] Use linear flow characteristic for steam service applications.
[b] Blank spaces indicate combinations not recommended, because lower force actuators meet maximum close-off ratings specified by the valve body.
[c] The action corresponds with 2-way valves only. 3-way valves are mixing valves.