

VG1000 Series Ball Valves with Compact Actuators

Brass Trim Spring Return

VG1000



- Characterized Flow Control Disc
- Chrome Plated Ball and Nickel Plated Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics
- Rated for Water or 50% Glycol solutions
- 23 to 203°F (-5 to 95°C) fluid temperature rating
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

				24 VAC			120 VAC
				Floating	Proportional 0 to 10 VDC	On/Off	On/Off
Valve	Size in.	Cv	Closeoff psig	VA2202-AGA-2	VA2202-GGA-2	VA2202-BGA-2	VA2202-BAA-2
Two-Way – Spring Return Valve Open – Normally Open without End Switch							
VG1241AD	1/2	1.2*	200	VG1241AD+22TAGA	VG1241AD+22TGGA	VG1241AD+22TBGA	VG1241AD+22TBAA
VG1241AE	1/2	1.9*	200	VG1241AE+22TAGA	VG1241AE+22TGGA	VG1241AE+22TBGA	VG1241AE+22TBAA
VG1241AF	1/2	2.9*	200	VG1241AF+22TAGA	VG1241AF+22TGGA	VG1241AF+22TBGA	VG1241AF+22TBAA
VG1241AG	1/2	4.7*	200	VG1241AG+22TAGA	VG1241AG+22TGGA	VG1241AG+22TBGA	VG1241AG+22TBAA
VG1241AL	1/2	7.4*	200	VG1241AL+22TAGA	VG1241AL+22TGGA	VG1241AL+22TBGA	VG1241AL+22TBAA
VG1241AN	1/2	11.7	200	VG1241AN+22TAGA	VG1241AN+22TGGA	VG1241AN+22TBGA	VG1241AN+22TBAA
VG1241BG	3/4	4.7*	200	VG1241BG+22TAGA	VG1241BG+22TGGA	VG1241BG+22TBGA	VG1241BG+22TBAA
VG1241BL	3/4	7.4*	200	VG1241BL+22TAGA	VG1241BL+22TGGA	VG1241BL+22TBGA	VG1241BL+22TBAA
VG1241BN	3/4	11.7	200	VG1241BN+22TAGA	VG1241BN+22TGGA	VG1241BN+22TBGA	VG1241BN+22TBAA
Two-Way – Spring Return Valve Closed – Normally Closed without End Switch							
VG1241AD	1/2	1.2*	200	VG1241AD+24TAGA	VG1241AD+24TGGA	VG1241AD+24TBGA	VG1241AD+24TBAA
VG1241AE	1/2	1.9*	200	VG1241AE+24TAGA	VG1241AE+24TGGA	VG1241AE+24TBGA	VG1241AE+24TBAA
VG1241AF	1/2	2.9*	200	VG1241AF+24TAGA	VG1241AF+24TGGA	VG1241AF+24TBGA	VG1241AF+24TBAA
VG1241AG	1/2	4.7*	200	VG1241AG+24TAGA	VG1241AG+24TGGA	VG1241AG+24TBGA	VG1241AG+24TBAA
VG1241AL	1/2	7.4*	200	VG1241AL+24TAGA	VG1241AL+24TGGA	VG1241AL+24TBGA	VG1241AL+24TBAA
VG1241AN	1/2	11.7	200	VG1241AN+24TAGA	VG1241AN+24TGGA	VG1241AN+24TBGA	VG1241AN+24TBAA
VG1241BG	3/4	4.7*	200	VG1241BG+24TAGA	VG1241BG+24TGGA	VG1241BG+24TBGA	VG1241BG+24TBAA
VG1241BL	3/4	7.4*	200	VG1241BL+24TAGA	VG1241BL+24TGGA	VG1241BL+24TBGA	VG1241BL+24TBAA
VG1241BN	3/4	11.7	200	VG1241BN+24TAGA	VG1241BN+24TGGA	VG1241BN+24TBGA	VG1241BN+24TBAA
				VA2202-AGB-2	VA2202-GGB-2	VA2202-BGB-2	VA2202-BAB-2
Two-Way – Spring Return Valve Open – Normally Open with End Switch							
VG1241AD	1/2	1.2*	200	VG1241AD+22TAGB	VG1241AD+22TGGB	VG1241AD+22TBGB	VG1241AD+22TBAB
VG1241AE	1/2	1.9*	200	VG1241AE+22TAGB	VG1241AE+22TGGB	VG1241AE+22TBGB	VG1241AE+22TBAB
VG1241AF	1/2	2.9*	200	VG1241AF+22TAGB	VG1241AF+22TGGB	VG1241AF+22TBGB	VG1241AF+22TBAB
VG1241AG	1/2	4.7*	200	VG1241AG+22TAGB	VG1241AG+22TGGB	VG1241AG+22TBGB	VG1241AG+22TBAB
VG1241AL	1/2	7.4*	200	VG1241AL+22TAGB	VG1241AL+22TGGB	VG1241AL+22TBGB	VG1241AL+22TBAB
VG1241AN	1/2	11.7	200	VG1241AN+22TAGB	VG1241AN+22TGGB	VG1241AN+22TBGB	VG1241AN+22TBAB
VG1241BG	3/4	4.7*	200	VG1241BG+22TAGB	VG1241BG+22TGGB	VG1241BG+22TBGB	VG1241BG+22TBAB
VG1241BL	3/4	7.4*	200	VG1241BL+22TAGB	VG1241BL+22TGGB	VG1241BL+22TBGB	VG1241BL+22TBAB
VG1241BN	3/4	11.7	200	VG1241BN+22TAGB	VG1241BN+22TGGB	VG1241BN+22TBGB	VG1241BN+22TBAB
Two-Way – Spring Return Valve Closed – Normally Closed with End Switch							
VG1241AD	1/2	1.2*	200	VG1241AD+24TAGB	VG1241AD+24TGGB	VG1241AD+24TBGB	VG1241AD+24TBAB
VG1241AE	1/2	1.9*	200	VG1241AE+24TAGB	VG1241AE+24TGGB	VG1241AE+24TBGB	VG1241AE+24TBAB
VG1241AF	1/2	2.9*	200	VG1241AF+24TAGB	VG1241AF+24TGGB	VG1241AF+24TBGB	VG1241AF+24TBAB
VG1241AG	1/2	4.7*	200	VG1241AG+24TAGB	VG1241AG+24TGGB	VG1241AG+24TBGB	VG1241AG+24TBAB
VG1241AL	1/2	7.4*	200	VG1241AL+24TAGB	VG1241AL+24TGGB	VG1241AL+24TBGB	VG1241AL+24TBAB
VG1241AN	1/2	11.7	200	VG1241AN+24TAGB	VG1241AN+24TGGB	VG1241AN+24TBGB	VG1241AN+24TBAB
VG1241BG	3/4	4.7*	200	VG1241BG+24TAGB	VG1241BG+24TGGB	VG1241BG+24TBGB	VG1241BG+24TBAB
VG1241BL	3/4	7.4*	200	VG1241BL+24TAGB	VG1241BL+24TGGB	VG1241BL+24TBGB	VG1241BL+24TBAB
VG1241BN	3/4	11.7	200	VG1241BN+24TAGB	VG1241BN+24TGGB	VG1241BN+24TBGB	VG1241BN+24TBAB

* Has Flow Characterizing Disc.

Actuators and valve bodies can be ordered separately using the valve and actuator code numbers shown. See PUBL-3736 for valid valve, actuator and linkage combinations.

Stainless Steel Spring Return



- Characterized Flow Control Disc
- Stainless Steel Ball and Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics
- Rated for Chilled Water, hot Water and 50% Glycol solutions
- -22 to 212 °F (-30 to 100 °C) fluid temperature rating
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

				24 VAC			120 VAC
				Floating	Proportional 0 to 10 VDC	On/Off	On/Off
Valve	Size in.	Cv	Closeoff psig	VA2202-AGA-2	VA2202-GGA-2	VA2202-BGA-2	VA2202-BAA-2
Two-Way – Spring Return Valve Open – Normally Open without end switch							
VG1245AD	1/2	1.2*	200	VG1245AD+22TAGA	VG1245AD+22TGGA	VG1245AD+22TBGA	VG1245AD+22TBAA
VG1245AE	1/2	1.9*	200	VG1245AE+22TAGA	VG1245AE+22TGGA	VG1245AE+22TBGA	VG1245AE+22TBAA
VG1245AF	1/2	2.9*	200	VG1245AF+22TAGA	VG1245AF+22TGGA	VG1245AF+22TBGA	VG1245AF+22TBAA
VG1245AG	1/2	4.7*	200	VG1245AG+22TAGA	VG1245AG+22TGGA	VG1245AG+22TBGA	VG1245AG+22TBAA
VG1245AL	1/2	7.4*	200	VG1245AL+22TAGA	VG1245AL+22TGGA	VG1245AL+22TBGA	VG1245AL+22TBAA
VG1245AN	1/2	11.7	200	VG1245AN+22TAGA	VG1245AN+22TGGA	VG1245AN+22TBGA	VG1245AN+22TBAA
VG1245BG	3/4	4.7*	200	VG1245BG+22TAGA	VG1245BG+22TGGA	VG1245BG+22TBGA	VG1245BG+22TBAA
VG1245BL	3/4	7.4*	200	VG1245BL+22TAGA	VG1245BL+22TGGA	VG1245BL+22TBGA	VG1245BL+22TBAA
VG1245BN	3/4	11.7	200	VG1245BN+22TAGA	VG1245BN+22TGGA	VG1245BN+22TBGA	VG1245BN+22TBAA
Two-Way – Spring Return Valve Closed – Normally Closed without end switch							
VG1245AD	1/2	1.2*	200	VG1245AD+24TAGA	VG1245AD+24TGGA	VG1245AD+24TBGA	VG1245AD+24TBAA
VG1245AE	1/2	1.9*	200	VG1245AE+24TAGA	VG1245AE+24TGGA	VG1245AE+24TBGA	VG1245AE+24TBAA
VG1245AF	1/2	2.9*	200	VG1245AF+24TAGA	VG1245AF+24TGGA	VG1245AF+24TBGA	VG1245AF+24TBAA
VG1245AG	1/2	4.7*	200	VG1245AG+24TAGA	VG1245AG+24TGGA	VG1245AG+24TBGA	VG1245AG+24TBAA
VG1245AL	1/2	7.4*	200	VG1245AL+24TAGA	VG1245AL+24TGGA	VG1245AL+24TBGA	VG1245AL+24TBAA
VG1245AN	1/2	11.7	200	VG1245AN+24TAGA	VG1245AN+24TGGA	VG1245AN+24TBGA	VG1245AN+24TBAA
VG1245BG	3/4	4.7*	200	VG1245BG+24TAGA	VG1245BG+24TGGA	VG1245BG+24TBGA	VG1245BG+24TBAA
VG1245BL	3/4	7.4*	200	VG1245BL+24TAGA	VG1245BL+24TGGA	VG1245BL+24TBGA	VG1245BL+24TBAA
VG1245BN	3/4	11.7	200	VG1245BN+24TAGA	VG1245BN+24TGGA	VG1245BN+24TBGA	VG1245BN+24TBAA
				VA2202-AGB-2	VA2202-GGB-2	VA2202-BGB-2	VA2202-BAB-2
Two-Way – Spring Return Valve Open – Normally Open with End Switch							
VG1245AD	1/2	1.2*	200	VG1245AD+22TAGB	VG1245AD+22TGGB	VG1245AD+22TBGB	VG1245AD+22TBAB
VG1245AE	1/2	1.9*	200	VG1245AE+22TAGB	VG1245AE+22TGGB	VG1245AE+22TBGB	VG1245AE+22TBAB
VG1245AF	1/2	2.9*	200	VG1245AF+22TAGB	VG1245AF+22TGGB	VG1245AF+22TBGB	VG1245AF+22TBAB
VG1245AG	1/2	4.7*	200	VG1245AG+22TAGB	VG1245AG+22TGGB	VG1245AG+22TBGB	VG1245AG+22TBAB
VG1245AL	1/2	7.4*	200	VG1245AL+22TAGB	VG1245AL+22TGGB	VG1245AL+22TBGB	VG1245AL+22TBAB
VG1245AN	1/2	11.7	200	VG1245AN+22TAGB	VG1245AN+22TGGB	VG1245AN+22TBGB	VG1245AN+22TBAB
VG1245BG	3/4	4.7*	200	VG1245BG+22TAGB	VG1245BG+22TGGB	VG1245BG+22TBGB	VG1245BG+22TBAB
VG1245BL	3/4	7.4*	200	VG1245BL+22TAGB	VG1245BL+22TGGB	VG1245BL+22TBGB	VG1245BL+22TBAB
VG1245BN	3/4	11.7	200	VG1245BN+22TAGB	VG1245BN+22TGGB	VG1245BN+22TBGB	VG1245BN+22TBAB
Two-Way – Spring Return Valve Closed – Normally Closed with End Switch							
VG1245AD	1/2	1.2*	200	VG1245AD+24TAGB	VG1245AD+24TGGB	VG1245AD+24TBGB	VG1245AD+24TBAB
VG1245AE	1/2	1.9*	200	VG1245AE+24TAGB	VG1245AE+24TGGB	VG1245AE+24TBGB	VG1245AE+24TBAB
VG1245AF	1/2	2.9*	200	VG1245AF+24TAGB	VG1245AF+24TGGB	VG1245AF+24TBGB	VG1245AF+24TBAB
VG1245AG	1/2	4.7*	200	VG1245AG+24TAGB	VG1245AG+24TGGB	VG1245AG+24TBGB	VG1245AG+24TBAB
VG1245AL	1/2	7.4*	200	VG1245AL+24TAGB	VG1245AL+24TGGB	VG1245AL+24TBGB	VG1245AL+24TBAB
VG1245AN	1/2	11.7	200	VG1245AN+24TAGB	VG1245AN+24TGGB	VG1245AN+24TBGB	VG1245AN+24TBAB
VG1245BG	3/4	4.7*	200	VG1245BG+24TAGB	VG1245BG+24TGGB	VG1245BG+24TBGB	VG1245BG+24TBAB
VG1245BL	3/4	7.4*	200	VG1245BL+24TAGB	VG1245BL+24TGGB	VG1245BL+24TBGB	VG1245BL+24TBAB
VG1245BN	3/4	11.7	200	VG1245BN+24TAGB	VG1245BN+24TGGB	VG1245BN+24TBGB	VG1245BN+24TBAB

* Has Flow Characterizing Disc.

Actuators and valve bodies can be ordered separately using the valve and actuator code numbers shown. See PUBL-3736 for valid valve, actuator and linkage combinations.

Non-Spring Return



- Characterized Flow Control Disc
- Chrome Plated Ball and Nickel Plated Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics
- Rated for Water or 50% Glycol solutions
- 23 to 203 °F (-5 to 95 °C) fluid temperature rating – Brass Trim
- -22 to 212 °F (-30 to 100 °C) fluid temperature rating – Stainless Steel Trim
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

Valve	Size in.	Cv	Closeoff psig	24 VAC		
				On/Off - Floating VA9104-AGA-xS	On/Off - Floating with Timeout VA9104-IGA-xS	Proportional 0 to 10 VDC VA9104-GGA-xS
Brass Trim – Two-Way – Non-Spring Return without End Switches						
VG1241AD	1/2	1.2*	200	VG1241AD+9T4AGA**	VG1241AD+9T4IGA**	VG1241AD+9T4GGA**
VG1241AE	1/2	1.9*	200	VG1241AE+9T4AGA**	VG1241AE+9T4IGA**	VG1241AE+9T4GGA**
VG1241AF	1/2	2.9*	200	VG1241AF+9T4AGA**	VG1241AF+9T4IGA**	VG1241AF+9T4GGA**
VG1241AG	1/2	4.7*	200	VG1241AG+9T4AGA**	VG1241AG+9T4IGA**	VG1241AG+9T4GGA**
VG1241AL	1/2	7.4*	200	VG1241AL+9T4AGA**	VG1241AL+9T4IGA**	VG1241AL+9T4GGA**
VG1241AN	1/2	11.7	200	VG1241AN+9T4AGA**	VG1241AN+9T4IGA**	VG1241AN+9T4GGA**
VG1241BG	3/4	4.7*	200	VG1241BG+9T4AGA**	VG1241BG+9T4IGA**	VG1241BG+9T4GGA**
VG1241BL	3/4	7.4*	200	VG1241BL+9T4AGA**	VG1241BL+9T4IGA**	VG1241BL+9T4GGA**
VG1241BN	3/4	11.7	200	VG1241BN+9T4AGA**	VG1241BN+9T4IGA**	VG1241BN+9T4GGA**
VG1241CL	1	7.4*	200	VG1241CL+9T4AGA**	VG1241CL+9T4IGA**	VG1241CL+9T4GGA**
VG1241CN	1	11.7*	200	VG1241CN+9T4AGA**	VG1241CN+9T4IGA**	VG1241CN+9T4GGA**
VG1241CP	1	18.7	200	VG1241CP+9T4AGA**	VG1241CP+9T4IGA**	VG1241CP+9T4GGA**
Stainless Steel – Two-Way – Non-Spring Return without End Switches						
VG1245AD	1/2	1.2*	200	VG1245AD+9T4AGA**	VG1245AD+9T4IGA**	VG1245AD+9T4GGA**
VG1245AE	1/2	1.9*	200	VG1245AE+9T4AGA**	VG1245AE+9T4IGA**	VG1245AE+9T4GGA**
VG1245AF	1/2	2.9*	200	VG1245AF+9T4AGA**	VG1245AF+9T4IGA**	VG1245AF+9T4GGA**
VG1245AG	1/2	4.7*	200	VG1245AG+9T4AGA**	VG1245AG+9T4IGA**	VG1245AG+9T4GGA**
VG1245AL	1/2	7.4*	200	VG1245AL+9T4AGA**	VG1245AL+9T4IGA**	VG1245AL+9T4GGA**
VG1245AN	1/2	11.7	200	VG1245AN+9T4AGA**	VG1245AN+9T4IGA**	VG1245AN+9T4GGA**
VG1245BG	3/4	4.7*	200	VG1245BG+9T4AGA**	VG1245BG+9T4IGA**	VG1245BG+9T4GGA**
VG1245BL	3/4	7.4*	200	VG1245BL+9T4AGA**	VG1245BL+9T4IGA**	VG1245BL+9T4GGA**
VG1245BN	3/4	11.7	200	VG1245BN+9T4AGA**	VG1245BN+9T4IGA**	VG1245BN+9T4GGA**
VG1245CL	1	7.4*	200	VG1245CL+9T4AGA**	VG1245CL+9T4IGA**	VG1245CL+9T4GGA**
VG1245CN	1	11.7*	200	VG1245CN+9T4AGA**	VG1245CN+9T4IGA**	VG1245CN+9T4GGA**
VG1245CP	1	18.7	200	VG1245CP+9T4AGA**	VG1245CP+9T4IGA**	VG1245CP+9T4GGA**

* Has Flow Characterizing Disc.

** Code numbers shown are for a VA9104-AGA-3S actuator with M3 screw terminals.

If you need a 48 inch plenum rated cable, change the 9T4 to 9A4 in the code number for a VA9104-AGA-2S actuator.

To make a conduit connection, change 9T4 to 906 in the code number for a M9106-AGA-2 actuator.

VG1000 Series Ball Valves with Compact Actuators

VG1000



Brass Trim Spring Return

- Characterized Flow Control Disc
- Chrome Plated Ball and Nickel Plated Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics In-Line Port
- Linear Flow Characteristics Bypass Port
- Rated for Water or 50% Glycol solutions
- 23 to 203 °F (-5 to 95 °C) fluid temperature rating
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

				24 VAC			120 VAC
				Floating	Proportional 0 to 10 VDC	On/Off	On/Off
Valve	Size in.	Cv	Closeoff psig	VA2202-AGA-2	VA2202-GGA-2	VA2202-BGA-2	VA2202-BAA-2
Three-Way – Spring Return Valve Open – Normally Open without End Switch							
VG1841AD	1/2	1.2 / 0.7*	200	VG1841AD+22TAGA	VG1841AD+22TGGA	VG1841AD+22TBGA	VG1841AD+22TBAA
VG1841AE	1/2	1.9 / 1.2*	200	VG1841AE+22TAGA	VG1841AE+22TGGA	VG1841AE+22TBGA	VG1841AE+22TBAA
VG1841AF	1/2	2.9 / 1.9*	200	VG1841AF+22TAGA	VG1841AF+22TGGA	VG1841AF+22TBGA	VG1841AF+22TBAA
VG1841AG	1/2	4.7 / 2.9*	200	VG1841AG+22TAGA	VG1841AG+22TGGA	VG1841AG+22TBGA	VG1841AG+22TBAA
VG1841AL	1/2	7.4 / 4.7*	200	VG1841AL+22TAGA	VG1841AL+22TGGA	VG1841AL+22TBGA	VG1841AL+22TBAA
VG1841AN	1/2	11.7 / 5.8	200	VG1841AN+22TAGA	VG1841AN+22TGGA	VG1841AN+22TBGA	VG1841AN+22TBAA
VG1841BG	3/4	4.7 / 2.9*	200	VG1841BG+22TAGA	VG1841BG+22TGGA	VG1841BG+22TBGA	VG1841BG+22TBAA
VG1841BL	3/4	7.4 / 4.7*	200	VG1841BL+22TAGA	VG1841BL+22TGGA	VG1841BL+22TBGA	VG1841BL+22TBAA
VG1841BN	3/4	11.7 / 5.8	200	VG1841BN+22TAGA	VG1841BN+22TGGA	VG1841BN+22TBGA	VG1841BN+22TBAA
Three-Way – Spring Return Valve Closed – Normally Closed without End Switch							
VG1841AD	1/2	1.2 / 0.7*	200	VG1841AD+24TAGA	VG1841AD+24TGGA	VG1841AD+24TBGA	VG1841AD+24TBAA
VG1841AE	1/2	1.9 / 1.2*	200	VG1841AE+24TAGA	VG1841AE+24TGGA	VG1841AE+24TBGA	VG1841AE+24TBAA
VG1841AF	1/2	2.9 / 1.9*	200	VG1841AF+24TAGA	VG1841AF+24TGGA	VG1841AF+24TBGA	VG1841AF+24TBAA
VG1841AG	1/2	4.7 / 2.9*	200	VG1841AG+24TAGA	VG1841AG+24TGGA	VG1841AG+24TBGA	VG1841AG+24TBAA
VG1841AL	1/2	7.4 / 4.7*	200	VG1841AL+24TAGA	VG1841AL+24TGGA	VG1841AL+24TBGA	VG1841AL+24TBAA
VG1841AN	1/2	11.7 / 5.8	200	VG1841AN+24TAGA	VG1841AN+24TGGA	VG1841AN+24TBGA	VG1841AN+24TBAA
VG1841BG	3/4	4.7 / 2.9*	200	VG1841BG+24TAGA	VG1841BG+24TGGA	VG1841BG+24TBGA	VG1841BG+24TBAA
VG1841BL	3/4	7.4 / 4.7*	200	VG1841BL+24TAGA	VG1841BL+24TGGA	VG1841BL+24TBGA	VG1841BL+24TBAA
VG1841BN	3/4	11.7 / 5.8	200	VG1841BN+24TAGA	VG1841BN+24TGGA	VG1841BN+24TBGA	VG1841BN+24TBAA
				VA2202-AGB-2	VA2202-GGB-2	VA2202-BGB-2	VA2202-BAB-2
Three-Way – Spring Return Valve Open – Normally Open with End Switch							
VG1841AD	1/2	1.2 / 0.7*	200	VG1841AD+22TAGB	VG1841AD+22TGGB	VG1841AD+22TBGB	VG1841AD+22TBAB
VG1841AE	1/2	1.9 / 1.2*	200	VG1841AE+22TAGB	VG1841AE+22TGGB	VG1841AE+22TBGB	VG1841AE+22TBAB
VG1841AF	1/2	2.9 / 1.9*	200	VG1841AF+22TAGB	VG1841AF+22TGGB	VG1841AF+22TBGB	VG1841AF+22TBAB
VG1841AG	1/2	4.7 / 2.9*	200	VG1841AG+22TAGB	VG1841AG+22TGGB	VG1841AG+22TBGB	VG1841AG+22TBAB
VG1841AL	1/2	7.4 / 4.7*	200	VG1841AL+22TAGB	VG1841AL+22TGGB	VG1841AL+22TBGB	VG1841AL+22TBAB
VG1841AN	1/2	11.7 / 5.8	200	VG1841AN+22TAGB	VG1841AN+22TGGB	VG1841AN+22TBGB	VG1841AN+22TBAB
VG1841BG	3/4	4.7 / 2.9*	200	VG1841BG+22TAGB	VG1841BG+22TGGB	VG1841BG+22TBGB	VG1841BG+22TBAB
VG1841BL	3/4	7.4 / 4.7*	200	VG1841BL+22TAGB	VG1841BL+22TGGB	VG1841BL+22TBGB	VG1841BL+22TBAB
VG1841BN	3/4	11.7 / 5.8	200	VG1841BN+22TAGB	VG1841BN+22TGGB	VG1841BN+22TBGB	VG1841BN+22TBAB
Three-Way – Spring Return Valve Closed – Normally Closed with End Switch							
VG1841AD	1/2	1.2 / 0.7*	200	VG1841AD+24TAGB	VG1841AD+24TGGB	VG1841AD+24TBGB	VG1841AD+24TBAB
VG1841AE	1/2	1.9 / 1.2*	200	VG1841AE+24TAGB	VG1841AE+24TGGB	VG1841AE+24TBGB	VG1841AE+24TBAB
VG1841AF	1/2	2.9 / 1.9*	200	VG1841AF+24TAGB	VG1841AF+24TGGB	VG1841AF+24TBGB	VG1841AF+24TBAB
VG1841AG	1/2	4.7 / 2.9*	200	VG1841AG+24TAGB	VG1841AG+24TGGB	VG1841AG+24TBGB	VG1841AG+24TBAB
VG1841AL	1/2	7.4 / 4.7*	200	VG1841AL+24TAGB	VG1841AL+24TGGB	VG1841AL+24TBGB	VG1841AL+24TBAB
VG1841AN	1/2	11.7 / 5.8	200	VG1841AN+24TAGB	VG1841AN+24TGGB	VG1841AN+24TBGB	VG1841AN+24TBAB
VG1841BG	3/4	4.7 / 2.9*	200	VG1841BG+24TAGB	VG1841BG+24TGGB	VG1841BG+24TBGB	VG1841BG+24TBAB
VG1841BL	3/4	7.4 / 4.7*	200	VG1841BL+24TAGB	VG1841BL+24TGGB	VG1841BL+24TBGB	VG1841BL+24TBAB
VG1841BN	3/4	11.7 / 5.8	200	VG1841BN+24TAGB	VG1841BN+24TGGB	VG1841BN+24TBGB	VG1841BN+24TBAB

* Has Flow Characterizing Disc.

Actuators and valve bodies can be ordered separately using the valve and actuator code numbers shown. See PUBL-3736 for valid valve, actuator and linkage combinations.



- Characterized Flow Control Disc
- Chrome Plated Ball and Nickel Plated Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics In-Line Port
- Linear Flow Characteristics Bypass Port
- Rated for Chilled Water, Hot Water and 50% Glycol solutions
- -22 to 212 °F (-30 to 100 °C) fluid temperature rating
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

Stainless Steel Spring Return

				24 VAC			120 VAC
				Floating	Proportional 0 to 10 VDC	On/Off	On/Off
Valve	Size in.	Cv	Closeoff psig	VA2202-AGA-2	VA2202-GGA-2	VA2202-BGA-2	VA2202-BAA-2
Three-Way – Spring Return Valve Open – Normally Open without End Switch							
VG1845AD	1/2	1.2 / 0.7*	200	VG1845AD+22TAGA	VG1845AD+22TGGA	VG1845AD+22TBGA	VG1845AD+22TBAA
VG1845AE	1/2	1.9 / 1.2*	200	VG1845AE+22TAGA	VG1845AE+22TGGA	VG1845AE+22TBGA	VG1845AE+22TBAA
VG1845AF	1/2	2.9 / 1.9*	200	VG1845AF+22TAGA	VG1845AF+22TGGA	VG1845AF+22TBGA	VG1845AF+22TBAA
VG1845AG	1/2	4.7 / 2.9*	200	VG1845AG+22TAGA	VG1845AG+22TGGA	VG1845AG+22TBGA	VG1845AG+22TBAA
VG1845AL	1/2	7.4 / 4.7*	200	VG1845AL+22TAGA	VG1845AL+22TGGA	VG1845AL+22TBGA	VG1845AL+22TBAA
VG1845AN	1/2	11.7 / 5.8	200	VG1845AN+22TAGA	VG1845AN+22TGGA	VG1845AN+22TBGA	VG1845AN+22TBAA
VG1845BG	3/4	4.7 / 2.9*	200	VG1845BG+22TAGA	VG1845BG+22TGGA	VG1845BG+22TBGA	VG1845BG+22TBAA
VG1845BL	3/4	7.4 / 4.7*	200	VG1845BL+22TAGA	VG1845BL+22TGGA	VG1845BL+22TBGA	VG1845BL+22TBAA
VG1845BN	3/4	11.7 / 5.8	200	VG1845BN+22TAGA	VG1845BN+22TGGA	VG1845BN+22TBGA	VG1845BN+22TBAA
Three-Way – Spring Return Valve Closed – Normally Closed without End Switch							
VG1845AD	1/2	1.2 / 0.7*	200	VG1845AD+24TAGA	VG1845AD+24TGGA	VG1845AD+24TBGA	VG1845AD+24TBAA
VG1845AE	1/2	1.9 / 1.2*	200	VG1845AE+24TAGA	VG1845AE+24TGGA	VG1845AE+24TBGA	VG1845AE+24TBAA
VG1845AF	1/2	2.9 / 1.9*	200	VG1845AF+24TAGA	VG1845AF+24TGGA	VG1845AF+24TBGA	VG1845AF+24TBAA
VG1845AG	1/2	4.7 / 2.9*	200	VG1845AG+24TAGA	VG1845AG+24TGGA	VG1845AG+24TBGA	VG1845AG+24TBAA
VG1845AL	1/2	7.4 / 4.7*	200	VG1845AL+24TAGA	VG1845AL+24TGGA	VG1845AL+24TBGA	VG1845AL+24TBAA
VG1845AN	1/2	11.7 / 5.8	200	VG1845AN+24TAGA	VG1845AN+24TGGA	VG1845AN+24TBGA	VG1845AN+24TBAA
VG1845BG	3/4	4.7 / 2.9*	200	VG1845BG+24TAGA	VG1845BG+24TGGA	VG1845BG+24TBGA	VG1845BG+24TBAA
VG1845BL	3/4	7.4 / 4.7*	200	VG1845BL+24TAGA	VG1845BL+24TGGA	VG1845BL+24TBGA	VG1845BL+24TBAA
VG1845BN	3/4	11.7 / 5.8	200	VG1845BN+24TAGA	VG1845BN+24TGGA	VG1845BN+24TBGA	VG1845BN+24TBAA
				VA2202-AGB-2	VA2202-GGB-2	VA2202-BGB-2	VA2202-BAB-2
Three-Way – Spring Return Valve Open – Normally Open with End Switch							
VG1845AD	1/2	1.2 / 0.7*	200	VG1845AD+22TAGB	VG1845AD+22TGGB	VG1845AD+22TBGB	VG1845AD+22TBAB
VG1845AE	1/2	1.9 / 1.2*	200	VG1845AE+22TAGB	VG1845AE+22TGGB	VG1845AE+22TBGB	VG1845AE+22TBAB
VG1845AF	1/2	2.9 / 1.9*	200	VG1845AF+22TAGB	VG1845AF+22TGGB	VG1845AF+22TBGB	VG1845AF+22TBAB
VG1845AG	1/2	4.7 / 2.9*	200	VG1845AG+22TAGB	VG1845AG+22TGGB	VG1845AG+22TBGB	VG1845AG+22TBAB
VG1845AL	1/2	7.4 / 4.7*	200	VG1845AL+22TAGB	VG1845AL+22TGGB	VG1845AL+22TBGB	VG1845AL+22TBAB
VG1845AN	1/2	11.7 / 5.8	200	VG1845AN+22TAGB	VG1845AN+22TGGB	VG1845AN+22TBGB	VG1845AN+22TBAB
VG1845BG	3/4	4.7 / 2.9*	200	VG1845BG+22TAGB	VG1845BG+22TGGB	VG1845BG+22TBGB	VG1845BG+22TBAB
VG1845BL	3/4	7.4 / 4.7*	200	VG1845BL+22TAGB	VG1845BL+22TGGB	VG1845BL+22TBGB	VG1845BL+22TBAB
VG1845BN	3/4	11.7 / 5.8	200	VG1845BN+22TAGB	VG1845BN+22TGGB	VG1845BN+22TBGB	VG1845BN+22TBAB
Three-Way – Spring Return Valve Closed – Normally Closed with End Switch							
VG1845AD	1/2	1.2 / 0.7*	200	VG1845AD+24TAGB	VG1845AD+24TGGB	VG1845AD+24TBGB	VG1845AD+24TBAB
VG1845AE	1/2	1.9 / 1.2*	200	VG1845AE+24TAGB	VG1845AE+24TGGB	VG1845AE+24TBGB	VG1845AE+24TBAB
VG1845AF	1/2	2.9 / 1.9*	200	VG1845AF+24TAGB	VG1845AF+24TGGB	VG1845AF+24TBGB	VG1845AF+24TBAB
VG1845AG	1/2	4.7 / 2.9*	200	VG1845AG+24TAGB	VG1845AG+24TGGB	VG1845AG+24TBGB	VG1845AG+24TBAB
VG1845AL	1/2	7.4 / 4.7*	200	VG1845AL+24TAGB	VG1845AL+24TGGB	VG1845AL+24TBGB	VG1845AL+24TBAB
VG1845AN	1/2	11.7 / 5.8	200	VG1845AN+24TAGB	VG1845AN+24TGGB	VG1845AN+24TBGB	VG1845AN+24TBAB
VG1845BG	3/4	4.7 / 2.9*	200	VG1845BG+24TAGB	VG1845BG+24TGGB	VG1845BG+24TBGB	VG1845BG+24TBAB
VG1845BL	3/4	7.4 / 4.7*	200	VG1845BL+24TAGB	VG1845BL+24TGGB	VG1845BL+24TBGB	VG1845BL+24TBAB
VG1845BN	3/4	11.7 / 5.8	200	VG1845BN+24TAGB	VG1845BN+24TGGB	VG1845BN+24TBGB	VG1845BN+24TBAB

* Has Flow Characterizing Disc.

Actuators and valve bodies can be ordered separately using the valve and actuator code numbers shown. See PUBL-3736 for valid valve, actuator and linkage combinations.

Three-Way

Non-Spring Return



- Characterized Flow Control Disc
- Chrome Plated Ball and Nickel Plated Stem
- Graphite-Reinforced PTFE Seats
- Equal Percentage Flow Characteristics In-Line Port
- Linear Flow Characteristics Bypass Port
- Rated for Water or 50% Glycol solutions
- 23 to 203 °F (-5 to 95 °C) fluid temperature rating – Brass Trim
- -22 to 212 °F (-30 to 100 °C) fluid temperature rating – Stainless Steel Trim
- 200 psi closeoff pressure rating
- 580 psi Static Pressure Rating
- 50 psi maximum Differential Pressure
- 500:1 Rangeability
- Tested > 200,000 cycles in iron-oxide contaminated water

				24 VAC		
				On/Off - Floating	On/Off - Floating with Timeout	Proportional 0 to 10 VDC
Valve	Size in.	Cv	Closeoff psig	VA9104-AGA-xS	VA9104-IGA-xS	VA9104-GGA-xS
Brass Trim – Two-Way – Non-Spring Return without End Switches						
VG1841AD	1/2	1.2 / 0.7*	200	VG1841AD+9T4AGA**	VG1841AD+9T4IGA**	VG1841AD+9T4GGA**
VG1841AE	1/2	1.9 / 1.2*	200	VG1841AE+9T4AGA**	VG1841AE+9T4IGA**	VG1841AE+9T4GGA**
VG1841AF	1/2	2.9 / 1.9*	200	VG1841AF+9T4AGA**	VG1841AF+9T4IGA**	VG1841AF+9T4GGA**
VG1841AG	1/2	4.7 / 2.9*	200	VG1841AG+9T4AGA**	VG1841AG+9T4IGA**	VG1841AG+9T4GGA**
VG1841AL	1/2	7.4 / 4.7*	200	VG1841AL+9T4AGA**	VG1841AL+9T4IGA**	VG1841AL+9T4GGA**
VG1841AN	1/2	11.7 / 5.8	200	VG1841AN+9T4AGA**	VG1841AN+9T4IGA**	VG1841AN+9T4GGA**
VG1841BG	3/4	4.7 / 2.9*	200	VG1841BG+9T4AGA**	VG1841BG+9T4IGA**	VG1841BG+9T4GGA**
VG1841BL	3/4	7.4 / 4.7*	200	VG1841BL+9T4AGA**	VG1841BL+9T4IGA**	VG1841BL+9T4GGA**
VG1841BN	3/4	11.7 / 5.8	200	VG1841BN+9T4AGA**	VG1841BN+9T4IGA**	VG1841BN+9T4GGA**
VG1841CL	1	7.4 / 4.7*	200	VG1841CL+9T4AGA**	VG1841CL+9T4IGA**	VG1841CL+9T4GGA**
VG1841CN	1	11.7 / 7.4*	200	VG1841CN+9T4AGA**	VG1841CN+9T4IGA**	VG1841CN+9T4GGA**
VG1841CP	1	18.7 / 9.4	200	VG1841CP+9T4AGA**	VG1841CP+9T4IGA**	VG1841CP+9T4GGA**
Stainless Steel – Two-Way – Non-Spring Return without End Switches						
VG1845AD	1/2	1.2 / 0.7*	200	VG1845AD+9T4AGA**	VG1845AD+9T4IGA**	VG1845AD+9T4GGA**
VG1845AE	1/2	1.9 / 1.2*	200	VG1845AE+9T4AGA**	VG1845AE+9T4IGA**	VG1845AE+9T4GGA**
VG1845AF	1/2	2.9 / 1.9*	200	VG1845AF+9T4AGA**	VG1845AF+9T4IGA**	VG1845AF+9T4GGA**
VG1845AG	1/2	4.7 / 2.9*	200	VG1845AG+9T4AGA**	VG1845AG+9T4IGA**	VG1845AG+9T4GGA**
VG1845AL	1/2	7.4 / 4.7*	200	VG1845AL+9T4AGA**	VG1845AL+9T4IGA**	VG1845AL+9T4GGA**
VG1845AN	1/2	11.7 / 5.8	200	VG1845AN+9T4AGA**	VG1845AN+9T4IGA**	VG1845AN+9T4GGA**
VG1845BG	3/4	4.7 / 2.9*	200	VG1845BG+9T4AGA**	VG1845BG+9T4IGA**	VG1845BG+9T4GGA**
VG1845BL	3/4	7.4 / 4.7*	200	VG1845BL+9T4AGA**	VG1845BL+9T4IGA**	VG1845BL+9T4GGA**
VG1845BN	3/4	11.7 / 5.8	200	VG1845BN+9T4AGA**	VG1845BN+9T4IGA**	VG1845BN+9T4GGA**
VG1845CL	1	7.4 / 4.7*	200	VG1845CL+9T4AGA**	VG1845CL+9T4IGA**	VG1845CL+9T4GGA**
VG1845CN	1	11.7 / 7.4*	200	VG1845CN+9T4AGA**	VG1845CN+9T4IGA**	VG1845CN+9T4GGA**
VG1845CP	1	18.7 / 9.4	200	VG1845CP+9T4AGA**	VG1845CP+9T4IGA**	VG1845CP+9T4GGA**

* Has Flow Characterizing Disc.

** Code numbers shown are for a VA9104-AGA-3S actuator with M3 screw terminals.

If you need a 48 inch plenum rated cable, change the 9T4 to 9A4 in the code number for a VA9104-AGA-2S actuator.

To make a conduit connection, change 9T4 to 906 in the code number for a M9106-AGA-2 actuator.

Actuators and valve bodies can be ordered separately using the valve and actuator code numbers shown.

See PUBL-3736 for valid valve, actuator and linkage combinations.