



V12™ and EM12™ High Flow Valve Assemblies

**Graco's newest
High Flow
Valves:
available in
non-meter or
meter
assemblies
for oil
dispense**



EM12 Metered Valve
Rigid Extension
3/4 in. swivels: 238-636, 238-638
1/2 in. swivels: 238-640, 238-642

EM12 Metered Valve
Flex Extension
3/4 in. swivels: 238-637, 238-639
1/2 in. swivels: 238-641, 238-643

V12 Non-Metered Valve
Rigid Extension
3/4 in. swivel: 238-644
1/2 in. swivel: 238-651

V12 Non-Metered Valve
Flex Extension
3/4 in. swivel: 238-645
1/2 in. swivel: 238-652

Graco's newest additions to the high flow meter/valve assemblies provide more versatility for your application needs. New features have been added to create a valve that not only dispenses accurately but is comfortable for the user. Such features are a locking trigger to allow hands-free dispensing, an automatic nozzle and an easy trigger-pull for operator comfort.

The valve assembly extensions are available in two different styles: rigid and flexible hose. The V12 and EM12 come with two swivel inlet sizes to fit your inlet hose: 1/2 npt(f) and 3/4 npt(f).

The electronic-metered valve is designed to withstand your most rugged environment. Its reliability, accuracy, and durability make this valve assembly an asset to your task at hand. The metered assemblies meet strict regulations: FM-approved and CSA-approved as intrinsically safe for Class I, Division 1, Groups A, B, C, D.

Typical Fluids Handled

- Motor oil
- Gear oil
- Automatic transmission fluid
- Hydraulic fluid
- Specialty lubricants
- Anti-freeze (not for use in metered valves)

Typical Applications

- High volume applications:
- Mining
 - Heavy construction
 - Industrial plants
 - Fleet service centers
 - Large trucks

Ordering Information

Metered Valve Assemblies – EM12

English Meter

- 238-636 3/4 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-637 3/4 npt(f) swivel inlet, 1/2 in. flexible extension
- 238-640 1/2 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-641 1/2 npt(f) swivel inlet, 1/2 in. flexible extension

Metric Meter

- 238-638 3/4 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-639 3/4 npt(f) swivel inlet, 1/2 in. flexible extension
- 238-642 1/2 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-643 1/2 npt(f) swivel inlet, 1/2 in. flexible extension

Un-metered Valve Assemblies – V12

- 238-644 3/4 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-645 3/4 npt(f) swivel inlet, 1/2 in. flexible extension
- 238-651 1/2 npt(f) swivel inlet, 1/2 in. rigid extension
- 238-652 1/2 npt(f) swivel inlet, 1/2 in. flexible extension



Bare Valves

No meter, no extension

Has Locking trigger and inline flow through

- 238-647 1/2 npt(f) swivel inlet
1/2 npt(f) outlet, no extension
- 238-646 3/4 npt(f) swivel inlet
1/2 npt(f) outlet, no extensions

Technical Specifications

Max. recommended flow rate 12 gpm (45.4 lpm)

Max. operating pressure 1500 psi (10.5 MPa, 105 bar)

Assembly weight (no meter) 0.4 lbs. (0.18 kg)

Operating temperature range

without meter -40° to 180° F (-40° to 82° C)

with meter -4° to 130° F (-20° to 55° C)

Inlet 1/2 npt and 3/4 npt

Outlet 1/2 npt

Wetted parts aluminum, SST, CS, acetal,
nitrile rubber, Geolast™

Instruction manual 308-642

Geolast™ is a registered trademark of Advanced Elastomer Systems



Safety approvals for use in hazardous locations.



Accessory

223-920 Twist Lock Nozzle

Optional nozzle for those wanting a manual twist lock-down type nozzle. This nozzle does not include an automatic feature like the standard nozzle.