

GPBV 80

PNEUMATICALLY OPERATED
SAFETY SHUT-OFF VALVE



LPG Tank Truck Bottom Valve

Multipurpose valve
for liquid phase
tank applications



- + Average of 50% less pressure drop
- + Improved pump and system performances
- + Supporting less noise emission
- + Optional closed condition monitoring
- + Stainless steel
- + Fully integrated actuator
- + Unchallenged flat design for easy integration
- + Loss-control monitoring support

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APPLICATION

Medium: liquid phase LPG (GPL), propane, butane

Operation types / usage: Tank filling valve, Tank emptying valve, Check valve

TECHNICAL FEATURES

Tank flange type/size:
ANSI B16.5 300 lbs 3" or EN 1092 PN25 DN80

Pressure nominal: PN25

Max. tank discharge flow rate 1,760 lpm

Max. tank filling flow rate 1,360 lpm

Typical pressure drop: 0.1 bar at 1,400 lpm

Ambient temperature range: -20°C to +50°C

Pneumatic control pressure range / connection for manual or automatic operation: 4 to 8 bar / DA 6

Body: EN 1.3955 Cast Stainless Steel

Internals: EN 1.4310 Stainless Steel

Seals: POM, PTFE, NBR P583

Tank to valve flange sealing:
O-ring or flat gasket (not included)

Optional sensor electrical standard: NAMUR (embedded design) with quick plug-in connection (M12)

APPROVALS / PROTECTIONS

ADR/RID type approved according to EN 12252 and EN 13175

TPED type approved (2010/35/EU) according EN 13175

Optional sensor (embedded)

Ex-Marking: II 1 G Ex ia IIB T4 Ga

Ingress protection: \geq IP54

Temperature range: -40°C to +60°C

SAFETY FEATURES

Shut off: by internal spring, fail close

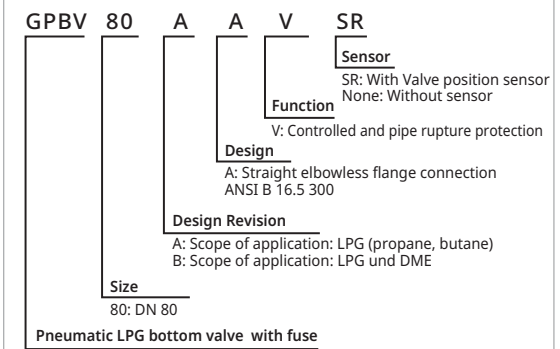
Excessive flow shut off at 2,220 lpm

Excessive temperature (fire) shut off melting fuse

Opens only against closed downstream valve (with back pressure)

Loss control monitoring support

ORDER CODE



VERSION PART NUMBER

GPBV 80 AAV 2432758

GPBV 80 AAV SR 2432751

GPBV 80 BAV SR 2657628

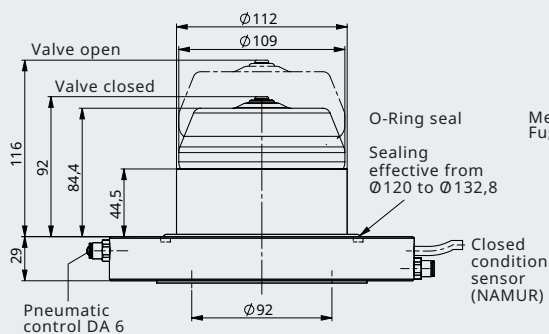
Proposed installation shear bolts mounting kit suitable as per EN14433 (ADR applications):

VERSION PART NUMBER

For DIN type GPBV 80 A G: M16, part number 2500616

For ANSI type GPBV 80 A A: M20, part number 2500623

DIMENSIONAL OUTLINE



EN 1092-PN 25 DN 80

ANSI B16.5 300 DN 3"

