

1" GEN2 Pressure Regulator, Failsafe Air Motor (AKR)

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For more information:

Call (800) 469-8786 info@gilmore.com

Gilmore 1231 Lumpkin Road Houston, TX 77043



1" GEN2 Pressure Regulator, Air Motor (AKR)

Gilmore announces the new 1" GEN2 Pressure Regulator with failsafe Air Motor product line for critical offshore and onshore applications. The GEN2 Air Motor Pressure Regulator has been designed with the same hydraulic porting footprint as the legacy AKR Pressure Regulators. This thoroughly redesigned product offering provides an improvement in cycle life and performance.

Features and Benefits:

- Qualification exceeds API 16D requirements –
 10,000 cycles at full flow rates and pressures
- Extended adjustable regulated pressure range available up to 5500 psi with Air Motor
- Failsafe adjustment maintains set point hydraulic pressure indifferent of pneumatic pressure loss
- Proprietary guided hydraulic dampening technology
- Improved deadband performance
- Enhanced bolted plunger guide
- Upgraded dynamic plunger T-Seal
- Threaded seal carrier alignment
- CRA Material Construction
 - Refined Tungsten Carbide seal trim
 - o Nitronic 60 Plunger and Seal Carrier
 - o T316 Spring Housing
- Patent #10,739,796



Figure 1. PN 29137: GEN2 Pressure Regulator, Air Motor
1" NPT Outlet, 1" NPT Inlet, 1500 – 3500 psi range



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Gilmore has exceeded API 16D requirements by qualifying the new 1" GEN2 Air Motor Regulator designs to 10,000 cycles, at a starting flow rate of 125 gpm per inlet, at 5000 psi, with 1% - 4% water glycol test fluid. Their qualification report is available upon request.

The new Gilmore 1" GEN2 AKR Pressure Regulators have an identical hydraulic port footprint to the legacy regulators for simply drop-in replacement.

Gilmore will continue to sell and support the legacy 1" Air Motor Regulators with valve sales, repair kits, seal kits and Aftermarket support. Please note that GEN2 Air Motor regulator kits **are not** interchangeable with legacy repair kits and seal kits and cannot be used in legacy regulators.

Gilmore's 1" GEN2 Air Motor Regulators are now available for purchase. Please contact Gilmore Customer Service to request a quotation for the 1" GEN2 Air Motor Pressure Regulators listed below, or any other configurations required that are not listed.

Table 1. 1" GEN2 Air Motor Pressure Regulators and Legacy Cross-References:

Item	New Valve Description	Legacy PN Reference	New Valve PN	New Repair Kit PN	New Seal Kit PN
1	Valve, Pressure Regulator, GEN2, Air Motor, 1500-500 psi range, NPT Ports, Single Inlet	44579-99	29096*	29096 RK	29096 SK
2	Valve, Pressure Regulator, GEN2, Air Motor, 3500-1500 psi range, NPT Ports, Single Inlet	44577-98 44577-W30	29137*	29137 RK	29137 SK
3	Valve, Pressure Regulator, GEN2, Air Motor, 1500-500 psi range SAE Ports, Single Inlet	45000-1 44579-98 45000	29138*	29138 RK	29138 SK
4	Valve, Pressure Regulator, GEN2, Air Motor, 5500-2500 psi range, SAE Ports, Single Inlet	N/A	29139	29139 RK	29139 SK
5	Valve, Pressure Regulator, GEN2, Air Motor, 1500-3500 psi range, SAE Ports, Double Inlet	N/A	29144	29144 RK	29144 SK
6	Valve, Pressure Regulator, GEN2, Air Motor, 3500-1500 psi range, Code 62 Ports, Single Inlet	44577-96	29160*	29160 RK	29160 SK
7	Valve, Pressure Regulator, GEN2, Air Motor, 2500-100 psi range, NPT Ports, Single Inlet	44577-W15	29161*	29161 RK	29161 SK
8	Valve, Pressure Regulator, GEN2, Air Motor, 1500-500 psi range, Code 62 Ports, Single Inlet	44579-97	29162*	29162 RK	29162 SK

^{*}Gage port improvement from NPT to SAE.



1" GEN2 Pressure Regulator, Air Motor (AKR)



Figure 2. PN 29096: GEN2 Pressure Regulator, Air Motor, 1" NPT Outlet, 1" NPT Inlet, 1500 - 500 psi range

Please contact Gilmore Customer Service to request any drawings, manuals and quotations for these new GEN2 Air Motor Regulators to Info@gilmore.com





