

# Expanding Through Conduit Pneumatic Gate Valve

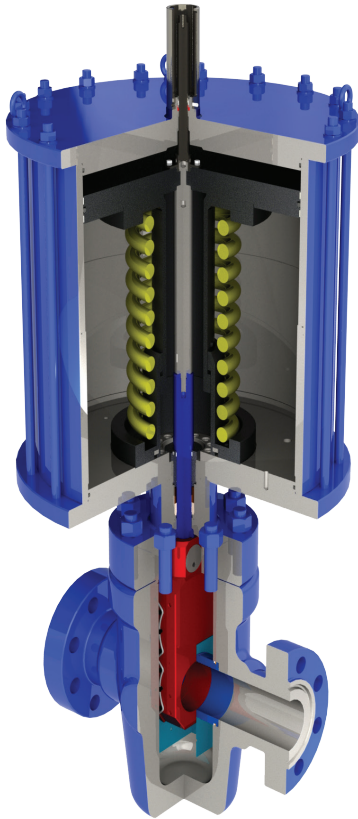
GAP-RSO Series



## DESCRIPTION

QUAM **GAP-RSO** is a Full bore through conduit **Expanding Gate** valve complete with **Rising Stem Pneumatic Actuator**

## THE VALVE



## GENERAL APPLICATION

**GAP-RSO** is the typical Pneumatic Gate Valve suitable for installation on Christmas Trees or Production Manifolds

## KEY FEATURES

### Description

Expanding Gate is a two pieces segmented gate with improved sealing performances and it is available as Direct Acting

### Full Bore Through Conduit

With Full Size valve bore it is Minimized the Pressure Drop across the Valve

### Metal To Metal Sealing

Without soft parts it is improved sealing performance with any process fluid

### Spring Loaded Seats

Floating Seats guarantee Tight Shut-off even at low operating pressures

### Bi-Directional Sealing

The possibility to reverse the fluid inlet orientation, Increase the service life

### Erosion Resistant Trim

Valve Trim Sealing Surfaces are Hardened to improve wearing resistance

### Corrosion Resistant Trim

Trim Components are made in Stainless Steel or properly Plated to improve corrosion resistance

### Proprietary Stem Packing Design

QUAM experience have been put in a special Stem Packing design for Smooth Operation, long life service and low emissions

### Actuator Characteristics

Air (or Gas) pressure is applied only to one side of the piston. In case of emergency the actuator goes in fail close position

### Exceed PR-2 Requirements

GAP-RSO valves performance exceed API-6A PR-2 requirements

## TECHNICAL SPECIFICATIONS

**Valve Action** Pneumatic open or close spring return

**Operated** QUAM Pneumatic Actuator

**Valve Size Range** API-6A From 1 13/16" through 7 1/16"  
API-6D From 2" through 6"

**Valve Pressure Ratings** API-6A From 2.000 through 20.000 PSI  
API-6D From 150 through 2500 lbs

**Valve Connections** Flanged, Studded, Buttweld, Hub or Customized Connections

**Actuator Operating Media** Compressed instrument air, sweet instrument gas or nitrogen, sour gas on special execution (special media compatibility, available on request)

**Material Class** API-6A: A-A, B-B, C-C, D-D, E-E, F-F & H-H  
API-6D in compliance with ASME B16.34

**Temperature Class** API-6A: L, P, R, S, T, U, V & X  
API-6D in compliance with ASME B16.34

**Shut-off Class** Tight Shut-off

## BENEFITS

### Tight Shut-off

Valve Trim is designed to guarantee perfect sealing in any conditions

### Compact Design

Minimizing Overall Dimensions GAP-RSO is perfect for offshore applications

### Heavy Duty Construction

Valve is specially designed to improve reliability, Italian origin of Forging materials is the guarantee of Valve quality

### Easy & Safe Maintenance

Special considerations in design are made to permit a safe disassembly of the pressure containing components

### No Special Tools

GAP-RSO valves disassembly can be executed without any Special Tool, only Standard Wrenches are requested

### 100% ITALIAN MANUFACTURING

QUAM Valves are Engineered and Manufactured entirely in Italy

## CERTIFICATIONS

**API-6A (up to PSL-4)**

**API-6D (up to QSL-4)**

**API-6FA (Fire Safe)**

**PED 2014-68-EU**

**ATEX 2014-34-EU**

**MACHINERY DIRECTIVE 2006/42/EC**