

KOP™ AM20 Series Gate Valves

With a gas-tight seal at pressures from 50–10,000 psi, KOP AM20 Series Gate Valves deliver improved wellhead and tree system integrity and reliability

SPM™ Oil & Gas

A Caterpillar Company



Gas-tight seal from 50–10,000 psi

Building upon the field-proven reliability of our AM10 and AM05 Gate Valves, the KOP AM10-20 and AM05-20 Series Gate Valves maintain wellhead integrity during every operation of the wellhead and tree. Designed to be smaller and lighter than other valves, they require less frequent maintenance and do not require torque multiplier assistance to operate for valve sizes up to 5 1/8-10K. Its standardized components allow for interchangeability between valve sizes, pressure ratings and manual and actuated gate valves—minimizing costs and downtime. During testing, KOP Gate Valves successfully withstood harsh conditions for more than 600 endurance cycles without grease injection, and they are one of the industry's few actuated surface safety valves qualified to API 6A Annex F PR2F, API 6FA and API 6AV1.

Applications

- Wellhead and tree systems
- High-pressure, high temperature (HPHT) systems
- Low-pressure systems
- Manifolds systems
- Fire-safe systems
- Sandy service

Features and Benefits

- Gas-tight seal at both high and low pressures
- Rated to 25+ years of field life proven by extensive testing
- Component compatibility between different valve sizes, pressure rating and manual and actuated gate valve to reduce spare inventory and NPT
- Pressure-intensified bonnet gasket that improves gate valve pressure integrity and operating temperature range
- Increased seal and valve durability to ensure wellhead and well site safety
- Smaller and lighter than other gate valves
- Cost-competitive thanks to fewer components
- Full metal seal, gate-to-seat seal and seat-to-body seal at operating pressure
- Tungsten carbide hard facing to protect against wear and ensure corrosion resistance
- Advanced coating technology on sealing mechanism for high wear, corrosion resistance and low operating torque
- High-tolerance grease that remains on critical sealing mechanism throughout life of valve
- Maintenance-free gate valve bearings and advanced coating technology to double valve maintenance intervals

Specifications

Body type	Forged
Gate type	Floating slab
Seat/gate/body	Metal-to-metal
Trims	AA, BB, CC, DD, EE, FF, HH
Operating torque	Low operating torque (torque multiplier not required for sizes up to 6 ³ / ₈ " at 6,500 psi working pressure and 5 1/8" at 10,000 psi working pressure)
Temperature range	-20°F to 350°F
Working pressure	AM05-20: 2,000 to 6,500 psi AM10-20: 10,000 psi
Stem	Non-rising
Bonnet seal	Pressure intensified
PSL levels	1, 2, 3, 3G, 4
API qualifications	Annex F PR2F, 6AV1 and 6FA
Testing and qualifications:	
– API 6A Annex F PR2F	
– API 6AV1 Class II	
– API 6FA	
– Extended low gas pressure hold: 50 psi	
– Endurance cycle test: 600 cycles	
– Sea water corrosion test	
Rated field design life	25+ years

Size (inches)										
AM05-20		2 ¹ / ₁₆	2 ⁹ / ₁₆	3 ¹ / ₈	4 ¹ / ₁₆	5 ¹ / ₈	6 ³ / ₈	7 ¹ / ₁₆	7 ¹ / ₈	9
AM10-20:	1 ¹³ / ₁₆	2 ¹ / ₁₆	2 ⁹ / ₁₆	3 ¹ / ₁₆	4 ¹ / ₁₆	5 ¹ / ₈	6 ³ / ₈	7 ¹ / ₁₆	7 ¹ / ₈	9

SPM™ Oil & Gas

601 Weir Way
Fort Worth, TX 76108
USA

T +1 800 342 7458
F +1 817 977 2508

www.spmoilandgas.com