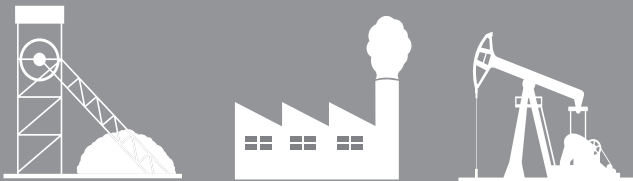


Ex-proof

APPLICATIONS

The explosion-proof valves by ARGO-HYTOS help to create a safe environment in potentially explosive atmospheres



Zone / Division clasification

Zone → EU → ATEX & IECEx directives
Division or Zone → US → NEC 500 & NEC 505 directives

Simplified:

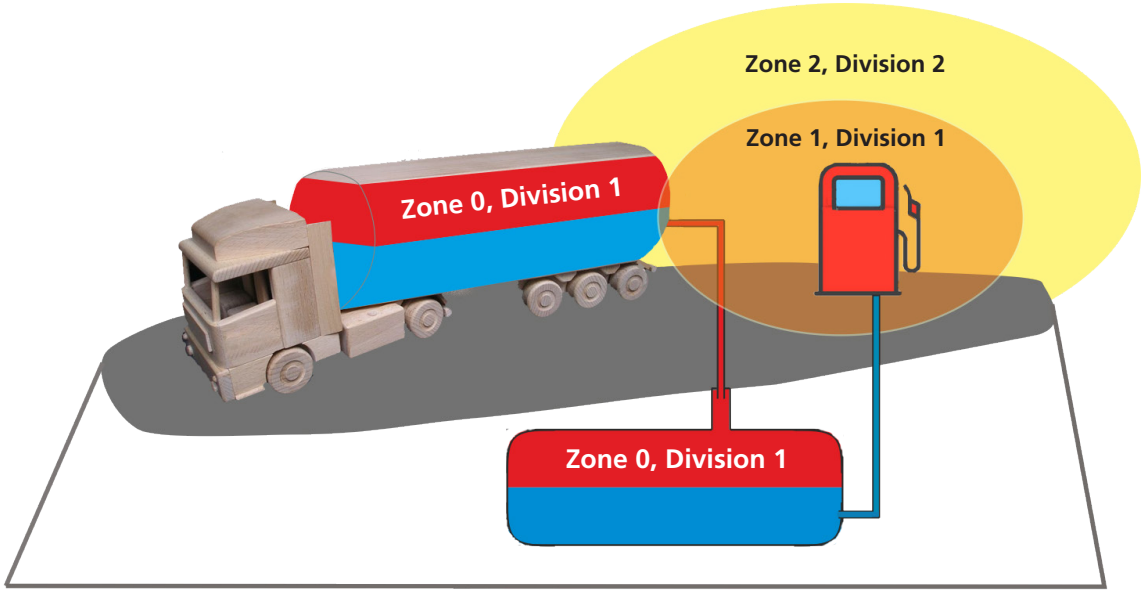
NEC 505 = IEC

NEC 500 ≠ IEC



There are both possibilities in US either NEC 500 or NEC 505

| | | Flammable Material | | |
|--------|-------------|----------------------|------------------------|--------------------|
| | | Present Continuously | Present Intermittently | Present Abnormally |
| IEC/EU | | Zone 0 | Zone 1 | Zone 2 |
| US | NEC®505 | Zone 0 | Zone 1 | Zone 2 |
| | NEC®500 | Division 1 | | Division 2 |
| CA | CEC | Zone 0 | Zone 1 | Zone 2 |
| | Section 18 | | | |
| | CEC Annex J | Division 1 | | Division 2 |



| Symbol | Type Code Data Sheet | Size | Flow/Pressure lpm (GPM) / bar (PSI) |
|---|---|---------------|---|
|  | Explosion Proof, 4/2 and 4/3, Directional Control Valve, Solenoid Operated | | |
| | RPEX3-06 HA 4054 | Size 06 (D03) | 60 (16) / 350 (5100) |
| | Explosion Proof, 4/2 and 4/3, Directional Control Valve - Spool Position Monitoring | | |
| | RPEX3-06*S6 HA 4094 | Size 06 (D03) | 60 (16) / 350 (5100) *IP 68 only |
|  | Explosion Proof, Auxiliary Lever Override for Solenoid Operated Valves | | |
| | RPERX3-06 HA 4095 | Size 06 (D03) | 60 (16) / 350 (5100) |
| | Explosion-proof, 4/2 and 4/3 Directional Control Valve, Pilot Operated | | |
| | RNEXH1-10 HA 4077 | Size 10 (D05) | 150 (40) / up to 420 (6100) |
|  | Explosion-proof, 4/2 and 4/3 Directional Control Valve, Pilot Operated | | |
| | RNEXH5-16 HA 4058 | Size 16 (D07) | 300 (80) / up to 420 (6100) |
| | Explosion-proof, 4/2 and 4/3 Directional Control Valve, Pilot Operated | | |
| | RNEXH4-25 HA 4059 | Size 25 (D08) | 600 (160) / up to 420 (6100) |
|  | Explosion Proof 2/2 Directional Valve, Solenoid Operated, Spool Type, Direct Acting | | |
| | SD2EX-B2 HA 4064 | 7/8-14 UNF | 45 (12) / 350 (5100) |
|  | Explosion Proof 3/2 Directional Valve, Solenoid Operated, Spool Type, Direct Acting | | |
| | SD2EX-B3 HA 4065 | 7/8-14 UNF | 60 (16) / 350 (5100) |
|  | Explosion Proof 4/2 Directional Valve, Solenoid Operated, Spool Type, Direct Acting | | |
| | SD2EX-B4 HA 4066 | 7/8-14 UNF | 50 (13) / 350 (5100) |
|  | Explosion Proof 2/2 Directional Valve, Solenoid Operated, Poppet Type, Piloted | | |
| | SD3EX-B2 HA 4067 | 7/8-14 UNF | 75 (20) / 420 (6100) |
| | Explosion Proof 2/2 Directional Valve, Solenoid Operated, Poppet Type, Piloted | | |
| | SD3EX-C2 HA 4089 | 1-1/16-12 UN | 150 (40) / 350 (5100) |
| | Explosion Proof 2/2 Directional Valve, Solenoid Operated, Poppet Type, Direct Acting | | |
| | SD1EX-A2 HA 4088 | 3/4-16 UNF | 30 (8) / 350 (5100) |
| | Explosion Proof 3/2 Directional Valve, Solenoid Operated, Poppet Type, Direct Acting | | |
| | SD1EX-A3 HA 4068 | 3/4-16 UNF | 40 (11) / 350 (5100) |
| Explosion Proof 4/3 Proportional Control Valve, Screw-in, Cartridge Design | | | |
| | SD2PX-B4 HA 5186 | 7/8-14 UNF | 25 (7) / 250 (3630) |
| Explosion Proof Proportional Directional Control Valve | | | |
| | PRMX2-06 HA 5183 | Size 06 (D03) | 28 (7.4) / 350 (5100) |
| Explosion Proof Proportional Directional Control Valve, Pilot Operated | | | |
| | PRMX8-06 HA 5185 | Size 06 (D03) | 140 (37) / 350 (5100) |
| Explosion Proof Proportional Pressure Control Valve, Reducing - Relieving, Direct-Acting | | | |
| | PVRMX3-103 HA 5184 | M24x1.5 | 40 (11) / 90 (1300) |

| Key Shot |
|---|
| RPEX3-06*S6 |
|  |
| RNEXH5-16 |
|  |
| SD2EX-B2 |
|  |
| SD3EX-C2 |
|  |
| SD1EX-A3 |
|  |
| PRMX2-06 |
|  |
| PVRMX3-103 |
|  |

We produce fluid power solutions



EXPLOSION-PROOF Valves







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ATEX Certificates Review:



Group IIC - covers all gas groups

| Voltage | ATEX Certificate N.: | EPS14ATEX1744 X | ATEX Certificate N.: IECEx EPS14.0064 X |
|---------|---|-----------------|---|
| AC |  I M2 Ex mb I Mb | | Ex mb I Mb |
| |  II 2G Ex mb IIC T4, T5, T6 Gb | | Ex mb IIC T4, T5, T6 Gb |
| |  II 2D Ex mb IIIC T135°C, T100°C, T85°C Db | | Ex mb IIIC T135°C, T100°C, T85°C Db |
| DC |  I M2 Ex e mb I Mb | | Ex e mb I Mb |
| |  II 2G Ex e mb IIC T4, T5, T6 Gb | | Ex e mb IIC T4, T5, T6 Gb |
| |  II 2D Ex tb IIIC T135°C, T100°C, T85°C Db | | Ex tb IIIC T135°C, T100°C, T85°C Db |

- > Range of application: temperature class T4, T5, T6
- > Wide range of applications – Gas (IIC), Dust (IIIC) and Mining (M2)
- > Worldwide use possible thanks to IECEx and ATEX certificates
- > ATEX, IECEx solenoid certifications for the zones and areas named

Explosion-Proof Solenoid:

- > Terminal box allows for a variety of connections
- > Robust valve and solenoid design (proven impact resistance (mining))
- > AC and DC types with low 10 W and high power 18 W versions
- > Up to + 70 °C ambient temperature
- > High efficiency requires low electrical power.
- > Solenoid can be interchanged between Cartridge and CETOP modular valves

Technical Features:

IP 66/68 for all Ex-proof product!*

- > Directional spool, poppet and proportional valves
- > Wide range of manual overrides including hand lever options
- > Exceptionally high hydraulic power
- > All valves and sealings are designed for 10 m. operating cycles
- > Ultra-tight poppet valves for pressure ratings of up to 420 bar
- > Pressure ranges: 350 bar for spools and 420 bar for poppet versions, flow range from 25 l/min to 600 l/min
- > Surface protection 520 h acc.to ISO 9224
- > SIC Spool valves with tumbling nose feature to compensate misalignments of the cavity; the spool never blocks
- > IP 66/68

