

Automatic system for methane and coal dust explosions localization in coal mines



Innovation Excellence - step forward to mining growth



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

ASVP-LV.1M

wmc2018.org



Ministry of Investments and Development
of the Republic of Kazakhstan

ITE GROUP

Iteca

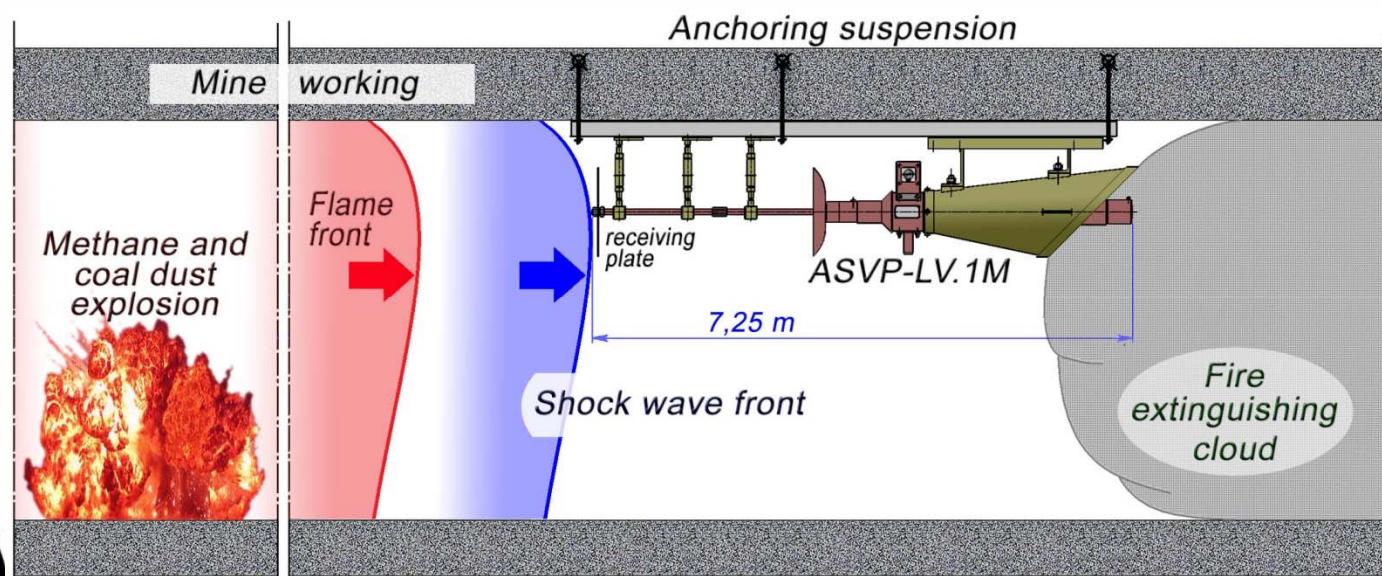
Explosion in the mine workings



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org



Innovation Excellence - step forward to mining growth

Explosion localization in mines



25th World Mining Congress

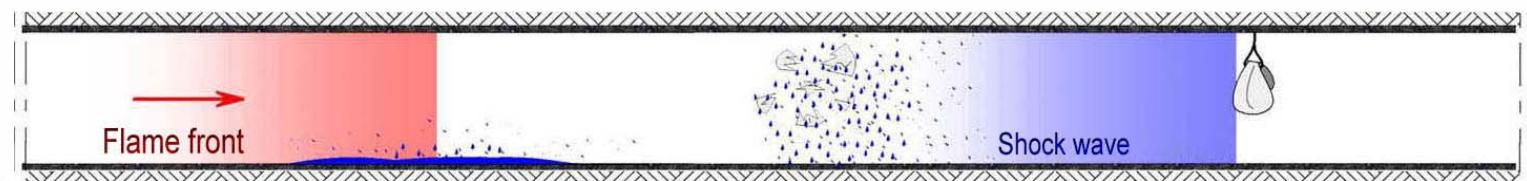
June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org

Stone-dust barrier



Water barrier



ASVP-LV.1M



Innovation Excellence - step forward to mining growth

Comparative technical parameters

of devices for explosions localization



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org

	Stone-dust barrier	Water barrier	ASVP-LV.1M
Response speed	200-400 ms	150 ms	25 ms
Effectiveness of the extinguishing agent	400 kg/m ²	440 L/m ²	0,01 kg/m ³
Average cloud life time	< 1 s	0,25 s	> 370 s
Spraying distance of fire extinguishing agent cloud	4-7 m	3-5 m	> 30 m

Innovation Excellence - step forward to mining growth

ASVP-LV.1M in action

Testing of
ASVP-LV.1M
in 2011



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org



Innovation Excellence - step forward to mining growth

Real explosion localization

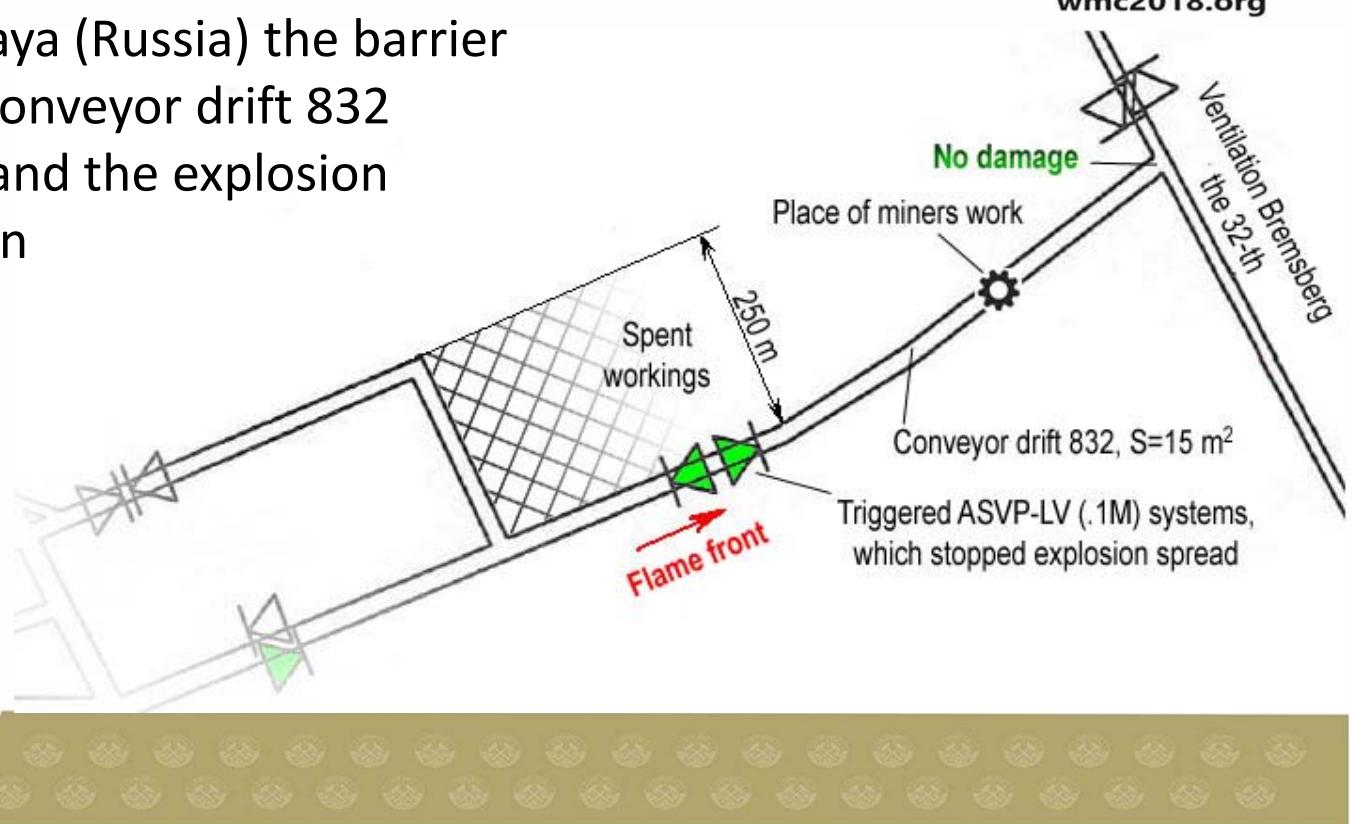
At the mine Vorkutinskaya (Russia) the barrier of two ASVP-LV in the Conveyor drift 832 has worked efficiently, and the explosion spread to the Ventilation Bremsberg the 32-th did not occur



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org



Innovation Excellence - step forward to mining growth

Participation in exhibitions



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org



ASVP-LV.1M were awarded with diplomas and medals at Russian and International exhibitions and congresses



Innovation Excellence - step forward to mining growth

Production of ASVP-LV.1M



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org



Innovation Excellence - step forward to mining growth

Permits for usage

Russia
and EACU



25th World Mining Congress

June 19-22, 2018 | Astana, Kazakhstan

wmc2018.org

China

