

# How to choose the right emergency escape devices

Life-threatening emergencies can occur at any moment in all kinds of industries. Proper risk analysis and safety planning should consider every possible emergency scenario. Criteria including the possible concentration of toxic gases, oxygen deficiency and the distance needed to reach a safe place determine which escape device is the best fit for a given purpose. Use this emergency escape chart to help you plan.

#### WHAT IS THE POTENTIAL ESCAPE SCENARIO?

Direct escape to a safe haven in max. 15 minutes

Possible concentration of hazards is known

Sufficient oxygen in ambient air

Direct escape to a safe haven

Possible concentration of hazards is high or unknown

Oxygen deficiency is possible

Escape to breathable atmosphere not possible

Length of escape route requires several escape stages

#### POSSIBLE HEALTH HAZARDS

Confusion, Reduced Ability to Move, Respiratory Arrest, Sudden Unconsciousness, Injuries, Suffocation

# POSSIBLE EMERGENCY ESCAPE SITUATIONS

#### Short Escape Path

Smoke inhalation danger

Toxic gases inhalation danger

Sufficient oxygen

15-minute max. escape path

#### Short Escape Path

High or unknown concentration of toxic gases

Insufficient oxygen

15-minute max. escape path

Self-contained Breathing Device: Compressed Air Escape Equipment & Oxygen Self-rescuer

#### Long Escape Path

High or unknown concentration of toxic gases

Insufficient oxygen

30-to-60-minute escape path

# Act as a Responder

High or unknown concentration of toxic gases

Insufficient oxygen

Need to act as first responder

## Long Escape Time or Rescue Needed

Escape to breathable atmosphere not possible immediately

Rescue operations required or several escape stages required

Escape time to rescue chamber or exchange/refill station max. 15 minutes or 60 minutes

# WHAT TYPE OF PROTECTION IS NEEDED?

Filter Escape Device: Filters Toxic Gases in the Air

# Dräger Protection Solution 1



Filter Escape Device

e.g. Dräger PARAT 4700 and 7500 Filtering Hoods

#### Positive Pressure Escape Shelter or Other Customized Solutions:

Rescue Chambers and Self-sustainig Atmospheres

### Dräger Protection Solution 2



Reusable compressed air escape device

e.g. Dräger Saver

### Dräger Protection Solution 3



Single-use, self-contained self-rescue device (SCSR)

e.g. Oxy 6000

#### Dräger Protection Solution 4



Self-contained breathing apparatus (SCBA) approved as working and escape device

e.g. Dräger PAS Colt

# Dräger Protection Solution 5



Refuge and Rescue Chambers

### Reusable compressed air escape device

e.g. Dräger Saver or PAS Colt, refillable with a plug-in connection to a charge-air system or connection in a rescue chamber

#### Single-use SCSR

e.g. Oxy 6000 Self-rescuer for max. 60 minutes, exchange at a cache station

#### Reusable compressed air escape device

e.g. Dräger Saver or
PAS Colt, refillable with a plug-in
connection to a charge-air
system or connection in a
rescue chamber