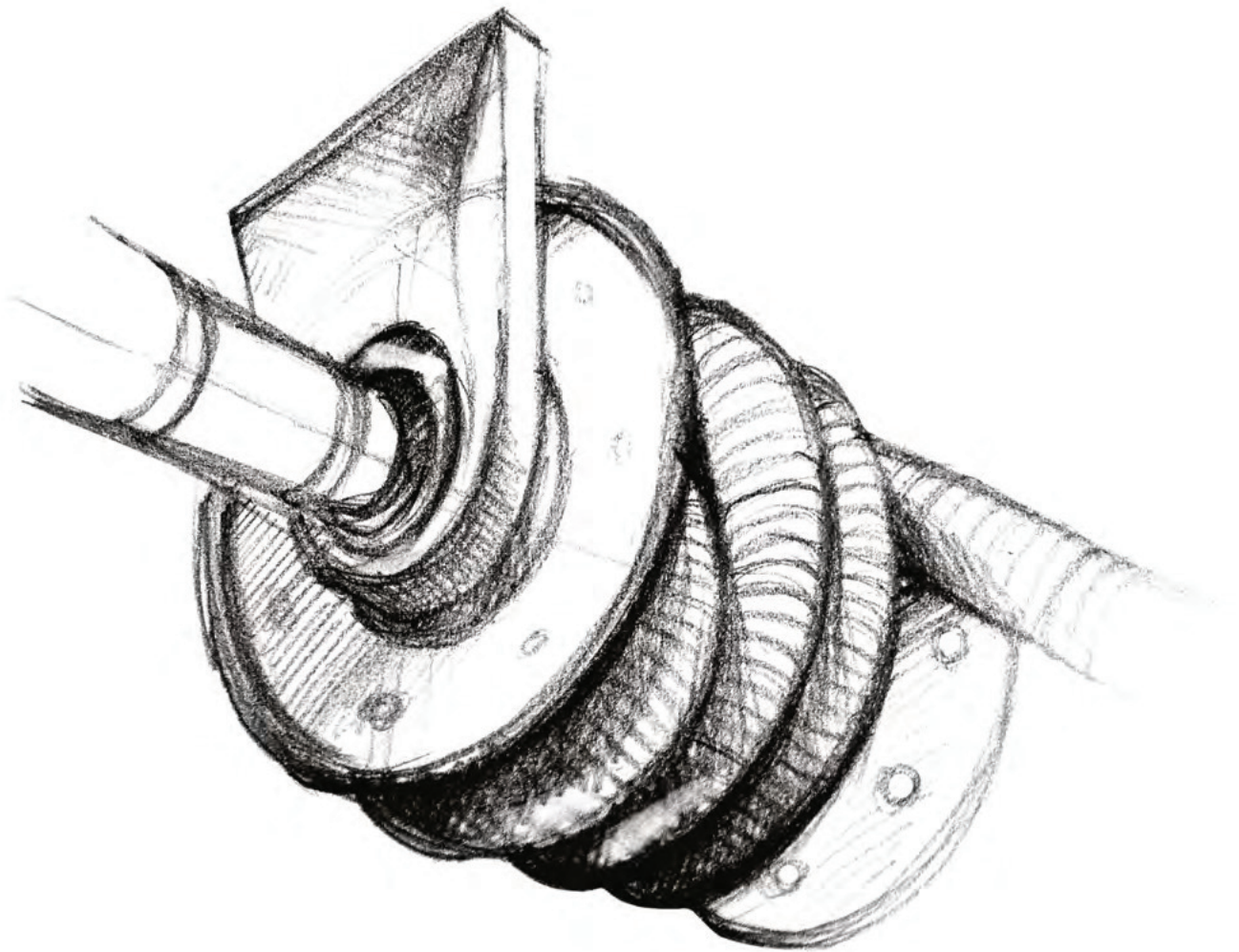


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# Vehicle Exhaust









# PRODUCT GUIDE



## ARS

Spring driven, retractable exhaust reel for exhaust extraction in garages and service workshops. Robust and reliable design, virtually maintenance free. Pulled up/down manually.



## ARM

Motorized exhaust reel for truck depots and service stations. Hose is pulled up/down at a click of a button. Ideal for high ceilings.



## ARSL

Rail extraction system for emergency service and transports. Special design gives automatic disconnection on vehicle departure. Designed according to special safety and quick handling requirements of emergency services.



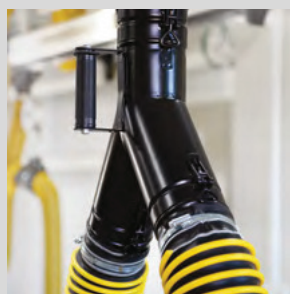
## ARST

Straight rail exhaust extraction system for service stations, garages, repair and production workshops. Flexible-easy to change layout. Can be equipped with different nozzles. Suitable for vehicles with two exhausts.



## ARL LOOP

Loop rail exhaust extraction system for inspection stations, automotive production and service facilities. Carriages, hoses and nozzles follows the vehicle through the system. When ready it automatically returns to the start.



## Vehicle exhaust accessories

Get familiar with our large selection of accessories like; turning consoles, different hoses, splitters and a range of extraction nozzles for different kinds of vehicles and applications.

# ARS Retractable Exhaust Reel

• • • • • Spring driven



## Description

An easy and efficient solution for removing the exhaust fumes from garages or any stationary workplace. When the reel isn't in use, the hose and nozzle are safely stored away, offering a free and clean work area. The reliable spring mechanism of the ARS, ensures a long and trouble free use with a low cost of ownership. The reel is easily installed direct on the wall, ceiling or on a swing arm to increase the working area. The ARS hose reel either operates as a stand-alone unit with its own pre-selected fan or is connected to a centralized ventilation system.

## Industries and applications

SovPlym ARS exhaust reels are used in various transport and industrial facilities that require extraction of exhaust fumes and gases:

- Car repairing shops
- Service stations
- Inspection posts
- Transport depots
- Garages
- Military vehicle depots

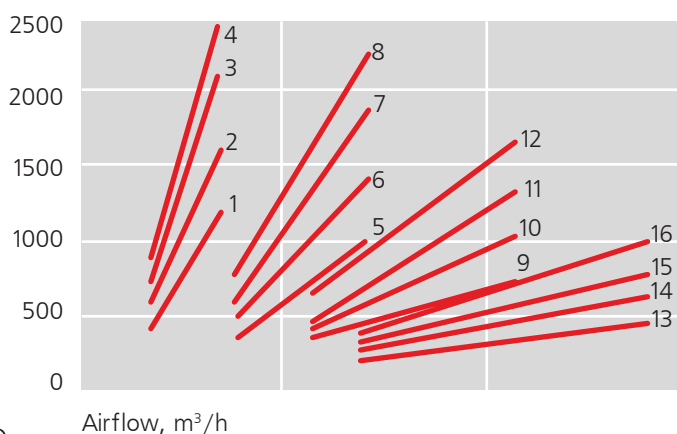
## Features

- Big reach area
- Long service life
- No additional space required
- Easy installation
- Robust and reliable design
- Wide selection of hoses and nozzles

## Delivery package

Hose and extraction nozzle are not included into standard delivery package and should be ordered separately.

## Pressure drop diagram



- |                 |                  |
|-----------------|------------------|
| 1. ARS-75-5     | 10. ARS-125-7,5  |
| 2. ARS-75-7,5   | 11. ARS-125-10   |
| 3. ARS-75-10    | 12. ARS-125-12,5 |
| 4. ARS-75-12,5  | 13. ARS-150-5    |
| 5. ARS-100-5    | 14. ARS-150-7,5  |
| 6. ARS-100-7,5  | 15. ARS-150-10   |
| 7. ARS-100-10   | 16. ARS-150-12,5 |
| 8. ARS-100-12,5 |                  |
| 9. ARS-125-5    |                  |



## Article numbers / Specifications

Article №	Model	Exhaust hose		L, mm	l, mm	B, mm	Recommended airflow, m <sup>3</sup> /h	Weight, (w/o hose) kg
		Diametr, mm	Length, m					
5650	ARS-75-5	75	5	764	602	600	270	60,8
5650	ARS-75-7,5	75	7,5				270	60,8
5651	ARS-75-10	75	10	914	752	750	270	62,4
5651	ARS-72-12,5	75	12,5				270	62,4
5652	ARS-100-5	100	5	764	602	600	540	60,8
5652	ARS-100-7,5	100	7,5				540	60,8
5653	ARS-100-10	100	10	914	752	750	540	60,8
5654	ARS-100-12,5	100	12,5	1064	902	900	540	67,2
5655	ARS-125-5	125	5	764	602	600	810	60,8
5656	ARS-125-7,5	125	7,5				810	60,8
5657	ARS-125-10	125	10	1064	902	900	810	67,2
5658	ARS-125-12,5	125	12,5	1264	1102	1100	810	70,4
5659	ARS-150-5	150	5	914	752	750	1080	60,8
5659	ARS-150-7,5	150	7,5				1080	60,8
5660	ARS-150-10	150	10	1064	902	900	1080	67,2
5661	ARS-150-12,5	150	12,5	1264	1102	1100	1080	70,4



# ARM Retractable Exhaust Reel

● ● ● ● ● ● ● ● Motor driven



## Description

ARM reel is the most efficient solution for truck, bus and vehicle repair boxes, or any other garage or industrial facility with high ceilings. With a click of a button an electric motor reels the hose and nozzle, to the exact position where the operator needs it. This is one of our best sellers! It brings a tidy and well organized workshop, with the hose and nozzle safely stored, when not in use. ARM exhaust reel is installed on the wall, ceiling or on a swing arm to get the maximum reach area. The ARM either operates as a stand-alone unit equipped with its own pre-selected fan or connected to a centralized ventilation system.

## Industries and applications

SovPlym ARM exhaust reels are used in various transport and industrial facilities that require extraction of exhaust fumes and gases:

- Engines production
- Engines testing facilities
- Car repairing shops
- Service stations
- Inspection posts
- Transport depots
- Garages
- Military vehicle depots

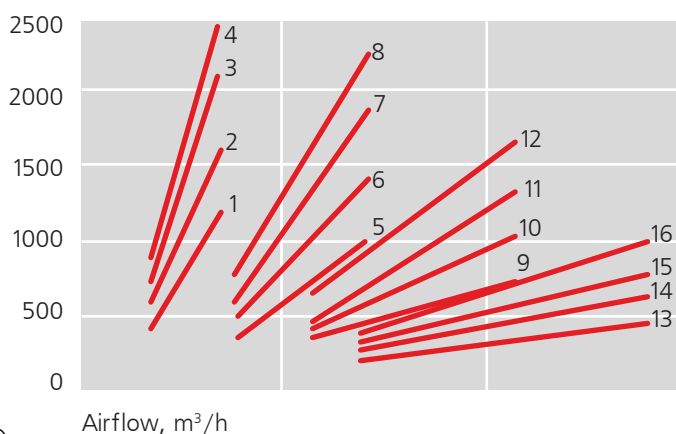
## Delivery package

Hose and extraction nozzle are not included into standard delivery package and should be ordered separately.

## Features

- Big reach area
- Automatic reel
- No additional space required
- Easy installation
- Robust and reliable design
- Wide selection of hoses and nozzles

## Pressure drop diagram



- |                    |                     |
|--------------------|---------------------|
| 1. ARM(F)-75-5     | 10. ARM(F)-125-7,5  |
| 2. ARM(F)-75-7,5   | 11. ARM(F)-125-10   |
| 3. ARM(F)-75-10    | 12. ARM(F)-125-12,5 |
| 4. ARM(F)-75-12,5  | 13. ARM(F)-150-5    |
| 5. ARM(F)-100-5    | 14. ARM(F)-150-7,5  |
| 6. ARM(F)-100-7,5  | 15. ARM(F)-150-10   |
| 7. ARM(F)-100-10   | 16. ARM(F)-150-12,5 |
| 8. ARM(F)-100-12,5 |                     |
| 9. ARM(F)-125-5    |                     |



## Article numbers / Specifications

Article № ARM/ARMF	Model	Exhaust hose		L, mm	l, mm	B, mm	Recommended airflow, m³/h	Weight, (w/o hose) kg	
		Diametr, mm	Length, m					ARM	ARMF
6675/5674	ARM/ARMF-75-5	75	5,0	970	796	880	270	53,5	67,5
6675/5676	ARM/ARMF-75-12,5	75	12,5	970	796	880	270	61	75
6676/5676	ARM/ARMF-100-5	100	5	970	796	880	370	55	69
6676/5676	ARM/ARMF-100-10	100	10	970	796	880	370	62,5	76,5
6677/5678	ARM/ARMF-100-12,5	100	12,5	1120	946	1030	370	68	82
6678/5679	ARM/ARMF-125-5	125	5	970	796	880	600	57,5	71,5
6678/5679	ARM/ARMF-150-7,5	125	7,5	970	796	880	600	63	77
6679/5681	ARM/ARMF-125-10	125	10	1120	946	130	600	69	83
6680/5682	ARM/ARMF-125-12,5	125	12,5	1220	1146	1230	600	69	83
6681/5683	ARM/ARMF-150-5	150	5	970	796	880	800	72	86
6681/5683	ARM/ARMF-150-7,5	150	7,5	970	796	880	800	59	73
6682/5684	ARM/ARMF-150-10	150	10	1120	946	1030	800	65	79
6683/5685	ARM/ARMF-150-12,5	150	12,5	1220	1146	1230	800	78	92
6105/5155	ARM/ARMF-200-10	200	10	1380	1202	1200	1200		
6105/5155	ARM/ARMF-200-12,5	200	12,5	1380	1202	1200	1200		





# ARSL Exhaust removal system

• • • • • For Fire and Rescue stations



## Description

ARSL is a reliable, fully automatic exhaust extraction system, designed for functionality and efficiency. It is safe, user-friendly and will improve the daily work for your fire fighters and emergency personnel. It is especially designed for fire- and rescue stations, with stand-by vehicles, ready to leave at any moment. The system consists of an aluminum track, equipped with a sliding balancer, and a self-detachable pneumatic ESQ nozzle that automatically releases from the exhaust pipe at the end of the track when the vehicle departs. ESQ nozzles are best suited for vehicles with the exhaust pipe located at the rear or the bottom sides. Delivery package of the ESRL system, includes all components normally needed for the mounting and installation. Fans, controls and automatic on/off systems are not included and should be ordered separately.

## Industries and applications

- Fire stations
- Emergency stations

## Features

- Free car movement
- Automatic nozzle disconnection
- No additional space required
- Easy installation
- Automatic start/stop by pressure sensor (option)
- 100% vehicle exhaust extraction





## Technical characteristics

<b>Rail lenght</b>	6; 9 m
<b>Exhaust hose diametr</b>	100; 125; 150 mm
<b>Exhaust hose lenght</b>	6; 10 m
<b>Max T of exhaust</b>	150 °C
<b>Diameter of pneumatic exhaust nozzle</b>	180 mm
<b>Exhaust pipe diametr</b>	60-170 mm
<b>Rail mounting height</b>	
• Min	3,5 m
• Max	5,0 m
<b>Diameter of the adapter for connection to ventilation system</b>	100; 125; 150 mm
<b>Compressed air pipe diameter</b>	8 mm
<b>Compressed air pressure</b>	
• Min	1 atm
• Max	6 atm
<b>Weight</b>	
• ARSL-6	42 kg
• ARSL-9	49 kg

## Installation options



Wall (horizontal)  
mounting



Ceiling (vertical)  
mounting





# ARST Exhaust removal system

..... For garages and service depots



## Description

ARST straight-rail exhaust extraction system is a most popular and effective solution for garages, transport depots and other facilities where vehicles have to move along straight path of a certain length in closed premises. ARST system is also an ideal solution for service stations where extraction from multiple stationary service posts arranged in a row is required. Exhaust extraction system must be connected to an appropriate fan or suitable central extraction system.

Delivery package includes extraction rail with all mountings and fittings required for installation.

## Industries and applications

- Garages
- Control lines
- Car maintenance stations
- Engine testing sites
- Car production lines
- Trucks inspection areas

## Features

- Modular design
- Suitable for cars with two exhaust pipes
- No additional space required
- Easy installation
- Flexible solution, layout can be changed easily
- 100% vehicle exhaust extraction





## Installation options

Wall or column (horizontal) mounting



Ceiling (vertical) mounting



## Delivery package

### Included into the package:

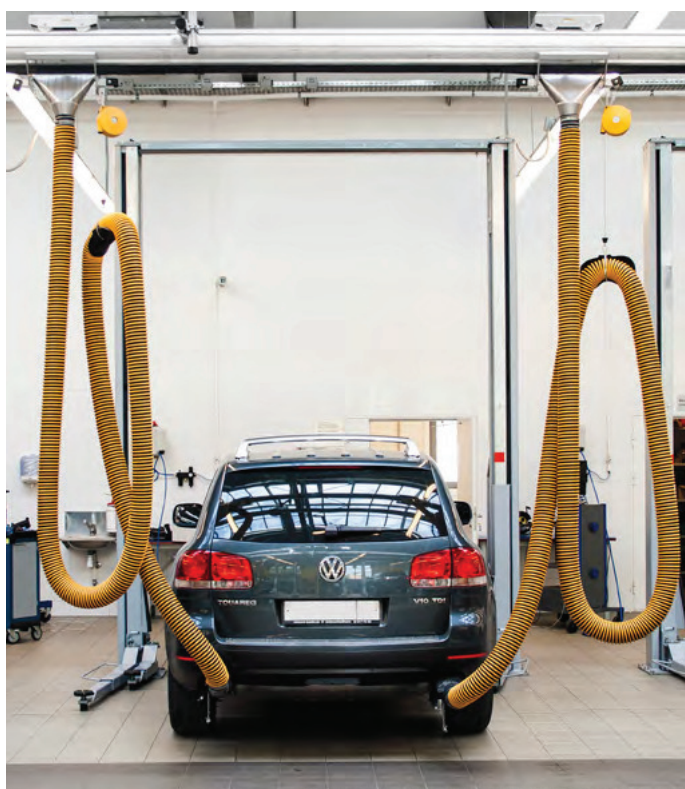
- Rail track with rubber lips

### To be specified and ordered:

- Carriage
- Exhaust hose
- Exhaust nozzle
- Balancer

ARST rail extraction system consists of 5 main elements of which only rail track is included into the package. It is a flexible engineering solution therefore such its components as carriages, balancers, exhaust hoses and nozzles must be selected according to the certain application and be ordered separately. Standard delivery package includes only the extraction rail of respective length with all mountings and fittings that are required for proper installation. Mounting kit is universal and suitable for both vertical (ceiling mounting) and horizontal (wall or column mounting) installation.

Article №	5390	5391	5392	5393	5394	5395	5396	5397	5398
Length, m	5.8	8.7	11.6	14.5	17.4	20.3	23.2	26.1	29.0





# ARL LOOP Exhaust removal system

For repair shops, inspection areas  
and production facilities



## Description

ARL LOOP exhaust extraction system is the most flexible and universal solution for removal of exhaust gases directly from the source of emission that allows free movement of the vehicle inside the repair shop, garage or production workshop. ARL LOOP system allows you to work with multiple vehicles simultaneously, while carriages follow their straight path from entry point of the area to its exit. When vehicle is ready to leave – just disconnect the nozzle and the carriage will automatically return by the loop and return rail to the beginning of the system ready to work with next arrived vehicle. ARL LOOP extraction system must be connected to an appropriate fan or suitable central extraction system.

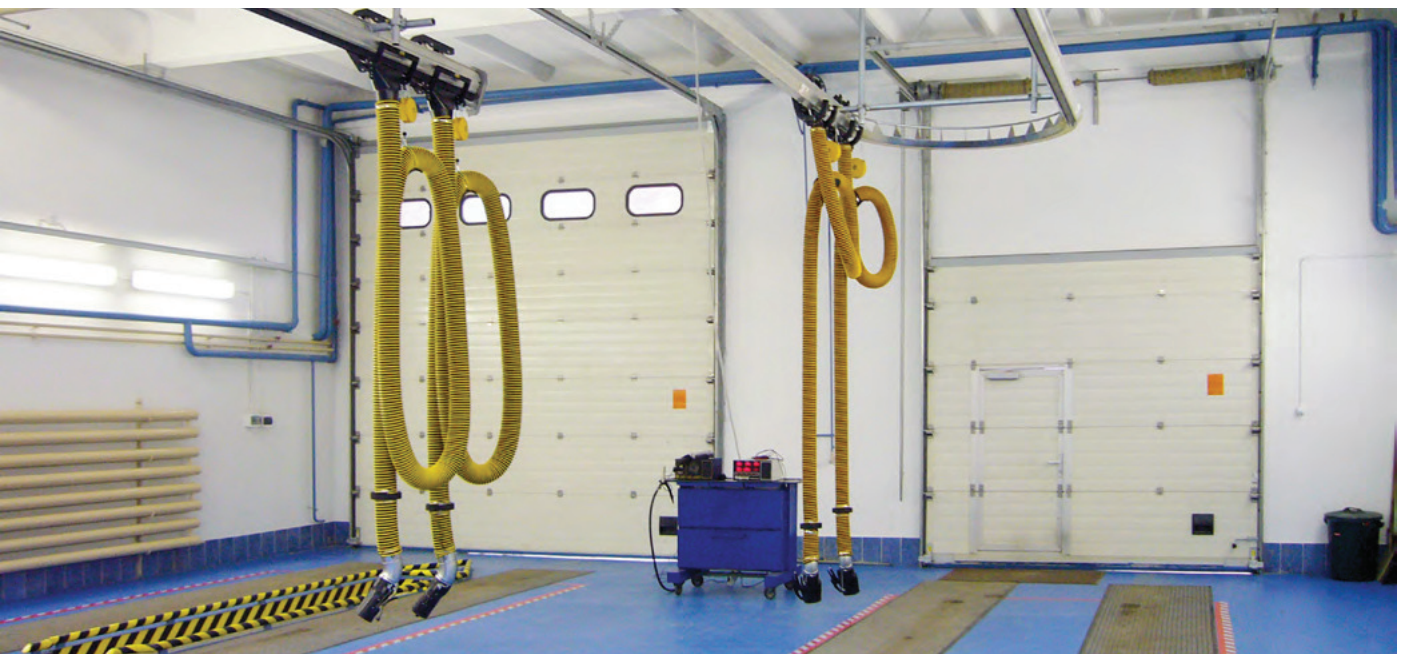
Delivery package includes extraction rail with all mountings and fittings required for installation.

## Industries and applications

- Garages
- Inspection areas
- Car maintenance stations
- Engine testing sites
- Car production lines
- Service depots

## Features

- Modular design
- Automatic return of the carriage
- No additional space required
- Easy installation
- Allows to serve multiple moving vehicles
- 100% vehicle exhaust extraction







## Delivery package

### Included into the package:

- Rail track with rubber lips

### To be specified and ordered:

- Loop track
- Return track
- Exhaust hose
- Exhaust nozzle
- Balancer
- Carriage

### Special order:

- Carriage carousel
- Refilling station
- Carriage tank

ARL LOOP rail extraction system consists of 7 main elements of which only rail track is included into the package. It is a flexible engineering solution therefore such components of it as carriages, balancers, exhaust hoses and nozzles must be selected according to the certain application and be ordered separately. Standard delivery package includes only the set of extraction rails of respective length with all mountings and fittings that are required for proper installation. Standard distance between the rail track and return rail is 2100 mm, if other distance or non-standard length of rails is required then additional items should be ordered.

Article №	5430	5431	5432	5433	5434	5435	5436	5437	5438	5439	5440	5441	5441
Length, m	23,2	21,6	29	31,9	34,8	37,7	40,6	43,5	46,4	49,3	52,2	55,1	58



# Accessories for exhaust extraction systems

## SSa Swing console



### Description

Use the robust SSa turning console to greatly increase reach area of your exhaust extraction reel. Solution to the industrial areas and workshops where standard reel mountings are impossible.

Consisting of turning bar and mounting plate the SSa console can rotate 180° and provide unmatched support and stable positioning for the exhaust extraction reel.

Range of available SSa consoles include models of lengths from 1,5 m to 4,5 m and of weight allowances from 20 kg to 60 kg.

SSa turning console can be attached to the wall or mounted onto support column.

## iDrop Hanging extraction unit



### Description

The compact iDrop unit is a good solution for small workshops and repair boxes with stationary working places. Consisting of the nozzle and extraction hose supported by balancer it allows to pull out and lock the needed length of the hose. When the work is finished and nozzle is disconnected from the vehicle, a quick pull of the hose will unlock the balancer and return the hose to it's start position.

Installation options include the wall, ceiling, column, or console mountings. iDrop must be connected to an appropriate ventilation system or directly to a suitable industrial fan.

iDrop unit supports hoses with diameters from 75 to 125 mm and lengths up to 7,5 m.



# Vega Swing extraction unit



## Description

To reach the most distant places of your workshop use the Vega console that will allow to increase the reach area of your exhaust extraction system by up to 7 m.

Vega unit consists of swing mechanism, mounting plate with stoppers, extraction hose with balancer support and exhaust nozzle. Robust and easy to handle turning mechanism ensures easy and secure positioning.

Similar to IDrop, the balance block allows to pull out the required length of hose and lock it, then retract it back when it is not in use, preventing the nozzle lying on the floor where it could be damaged by passing vehicles.

Usually Vega extraction units are connected directly to a separate industrial fan but also a connection to a centralized ventilation system is possible.

Supported diameters of hoses for Vega unit are 75 mm and 100 mm.

# Hose splitters and connections



## Description

Use the hose splitters to service vehicles with two exhaust pipes. SovPlym offers several types of connectors including quick connection splitters and nipples.

Product range of hose splitters include parts for all standard hose diameters (75, 100, 125, 150 mm) that fit all standard types of extraction hoses. Be aware that all nipples and connection pieces should be ordered separately from hose splitters to ensure the convenient use and safety of the whole system.

## SP-HOSE-150 Exhaust gas hose



### Description

Exhaust gas hose for exhaust fumes/gases up to +150 °C.

### Material

Spiral: plastic-profile helix.

Wall: EPDM/PP-coated polyester fabric.

### Features

- Good flow characteristics
- Super lightweight
- Withstands high mechanical loads
- Excellent recovery properties

## SP-HOSE-200 Exhaust gas hose



### Description

Exhaust gas hose for exhaust fumes/gases up to +200 °C.

### Material

Clamp profile spiral: hot-dip galvanised steel with additional plastic profile.

Wall: neoprene-coated polyester fabric.

### Features

- Highly flexible
- Vibration-proof
- Extremely compressible to approx. 1:5
- Extremely lightweight

## SP-HOSE-300 Exhaust gas hose



### Description

Exhaust gas hose for exhaust fumes/gases up to +300 °C.

### Material

Clamp profile spiral: hot-dip galvanised steel with additional plastic profile.

Wall: special-coated inflammable textile.

### Features

- Hardly inflammable robust
- Highly flexible
- Vibration-proof
- Abrasion-resistant to diesel exhaust fumes



# Exhaust nozzles

## IGripST



### Description

Steel extraction nozzle suitable for exhaust gazes of high temperatures, up to 650 °C. Made of 2 mm steel, the nozzle has a spring-loaded rubber flap to prevent the suction when nozzle is not attached to the vehicle exhaust pipe. IGripST has a special 20 mm inspection hole for testing and inspection purposes. Available for hoses Ø75-150 mm. Fits exhaust pipes up to Ø185 mm.

## IGrip



### Description

Conical rubber extraction nozzle for hoses 100 and 125 mm. Suitable for vehicles and light trucks with exhaust pipes from 50 to 140 mm. Rubber material prevents any possible damage to wheels and paintwork vehicles during operation. Oval shape of the nozzle allows easy connection to any oval types of exhaust pipes. Can be equipped with lockable clamp.

## IGripR (G)



### Description

Rubber extraction nozzle for rail systems for moving vehicles. Equipped with robust lockable mechanized clamp that fix the nozzle on the exhaust pipe. The clamp is adjustable and strength of connection can vary. Available for hoses 100 and 125 mm. Fits exhaust pipes 50-140 mm.

## IGripSK



### Description

Steel extraction nozzle for vertical exhaust pipes, primarily for truck vehicles. The IGripSK equipped with adapter with telescopic tube to facilitate the positioning of the nozzle on the exhaust pipe. Length of the telescopic tube varies from 2 m to 3 m. Available for hoses 125 and 150 mm. Fits exhaust pipes up to 235 mm.

Consult your local distributor for more information on other nozzles.