

CLEANING AND SANITIZATION

No. 223-LS



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

*the human side
of Quality*



founded in 1975



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RAASM designs a wide range of items for cleaning and sanitization. They are fully customizable according to different types of fluids, pressures and flow rates. Reliable, durable and versatile. Characterized by the quality that distinguishes all RAASM products, they are suitable to every specific need of the customer.

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**ADVANCED FLUID
MANAGEMENT SOLUTIONS**



Cleaning and sanitization line







**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

VISION

DESIGN

TECHNOLOGY

QUALITY

EFFICIENCY

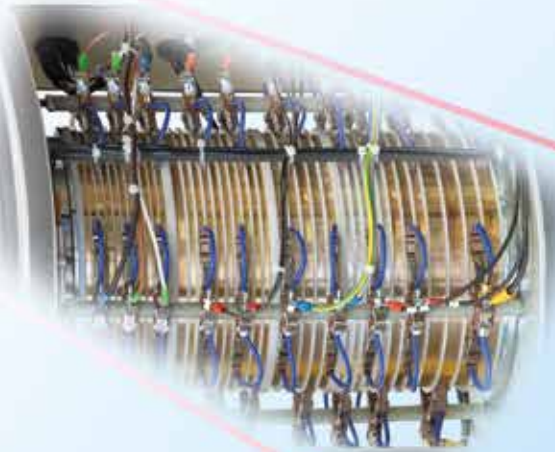
ASSISTANCE

ENVIRONMENT

PACKAGING

SHARING







SWIVELLING ENCLOSED HOSE REELS

made of **AISI 304** stainless steel

series 250

series 300



In accordance with directive

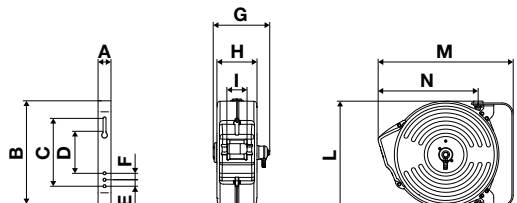


AISI 304 air-water 20 bar					
	P/N	Hose supplied	Connection		Weight
			inlet	outlet	
series 250	92708.101	12 m - 8 x 12 mm (981.112)	G 3/8" (m)	G 1/4" (m)	7,0 kg
	92708.102	10 m - 10 x 14,5 mm (982.110)	G 3/8" (m)	G 3/8" (m)	7,3 kg
series 300	93208.102	12 m - 8 x 12 mm (981.112)	G 3/8" (m)	G 1/4" (m)	8,6 kg
	93208.103	15 m - 8 x 12 mm (981.116)	G 3/8" (m)	G 1/4" (m)	8,8 kg
	93208.104	20 m - 8 x 12 mm (981.121)	G 3/8" (m)	G 1/4" (m)	9,0 kg
	93208.105	12 m - 10 x 14,5 mm (982.112)	G 3/8" (m)	G 3/8" (m)	8,9 kg
	93208.106	15 m - 10 x 14,5 mm (982.116)	G 3/8" (m)	G 3/8" (m)	9,3 kg

Technical data	
Type of fluid	air-water
Pressure	20 bar
Working temperature	≤ 100 °C

Hoses	Connections	Seals	Swivel joint	Central pin
atoxic polyurethane	AISI 304 stainless steel	Viton®	AISI 304 stainless steel - Delrin®	Delrin®
				



Overall dimensions (mm)														Series	A	B	C	D	E	F	G	H	I	L	M	N	Packaging (mm) W x D x H
														250	40	319	210	130	20	20	173	124	62	281	338	230	370 x 200 x 370
														300	40	319	210	130	20	20	173	124	62	333	416	308	385 x 200 x 415

(W: width - D: depth - H: height)

⚠ See kits prepared with this hose reel on page 62.

Technical characteristics

PAWL

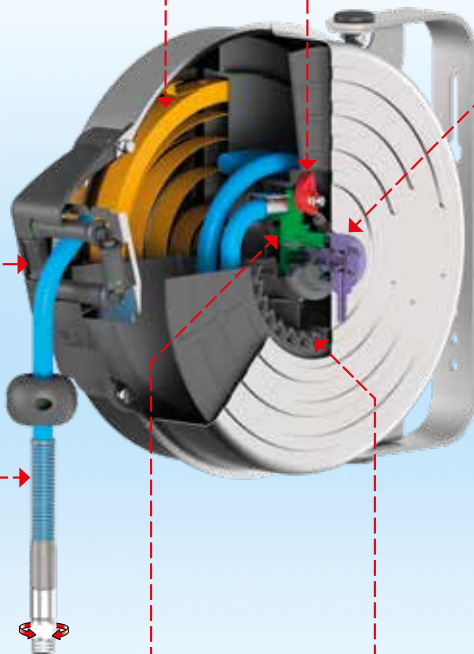
SPRING

Tested to withstand over 20000 work cycles.

INLET SWIVEL JOINT

Can be oriented in 8 different positions, evenly spaced by 45°, to facilitate connection to the fixed system.

HOSE GUIDE



HOSE

Fit with hose stop and metal spiral tips to reinforce the hose structure.

CENTRAL PIN

Designed to minimise load losses.

STOP RACK

Makes it possible to lock the hose around every 0,5 m.

FIXING BRACKET

Can be rotated up to 90° per side and has 2 slotted holes for safe, easy installation.



FIXED AND SWIVELLING OPEN HOSE REELS made of **AISI 304** stainless steel

series 560

series 540

series 530

series 430

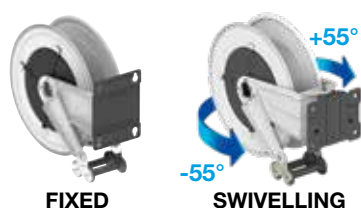
series 390

series 330

series 290



- 0,6 m inlet hose as standard.
- Multi-position arms.
- Some models are customizable with “Speed Control” rewinding brake or “M-Arte” automatic hose-guide.
- Hose stop available for all standard models, even those supplied without hose.



Can be rendered swivelling by using the special bracket, see page 25.

Technical data		
Type of fluid	air-water	hot water
Pressure	10 bar - 20 bar	50 bar - 100 bar - 200 bar - 400 bar - 700 bar
Working temperature	≤ 100 °C	≤ 130 °C

Hoses		Connections	Seals	Swivel joint	Central pin
black rubber	hygienic hose	galvanized steel	Viton® - Teflon®	AISI 304 s. steel - brass	AISI 304 s. steel

FIXED Overall dimensions (mm)											Packaging (mm) W x D x H	
Series	A	B	C	D	E	F	G	H	I			
290	186	140	196	226	98	330	300	339	135		470 x 260 x 490	
330	186	140	196	226	98	390	350	365	155		510 x 260 x 520	
390	186	140	196	226	98	410	390	410	155		580 x 280 x 590	
430	186	140	197	226	97	450	415	456	264		580 x 280 x 590	
530	203	153	221	258	104	535	510	558	315		650 x 290 x 700	
540	300	218	227	268	165	535	510	572	315		660 x 390 x 690	
560	488	399	238	272	348	535	510	578	315		670 x 610 x 760	
											(W: width - D: depth - H: height)	

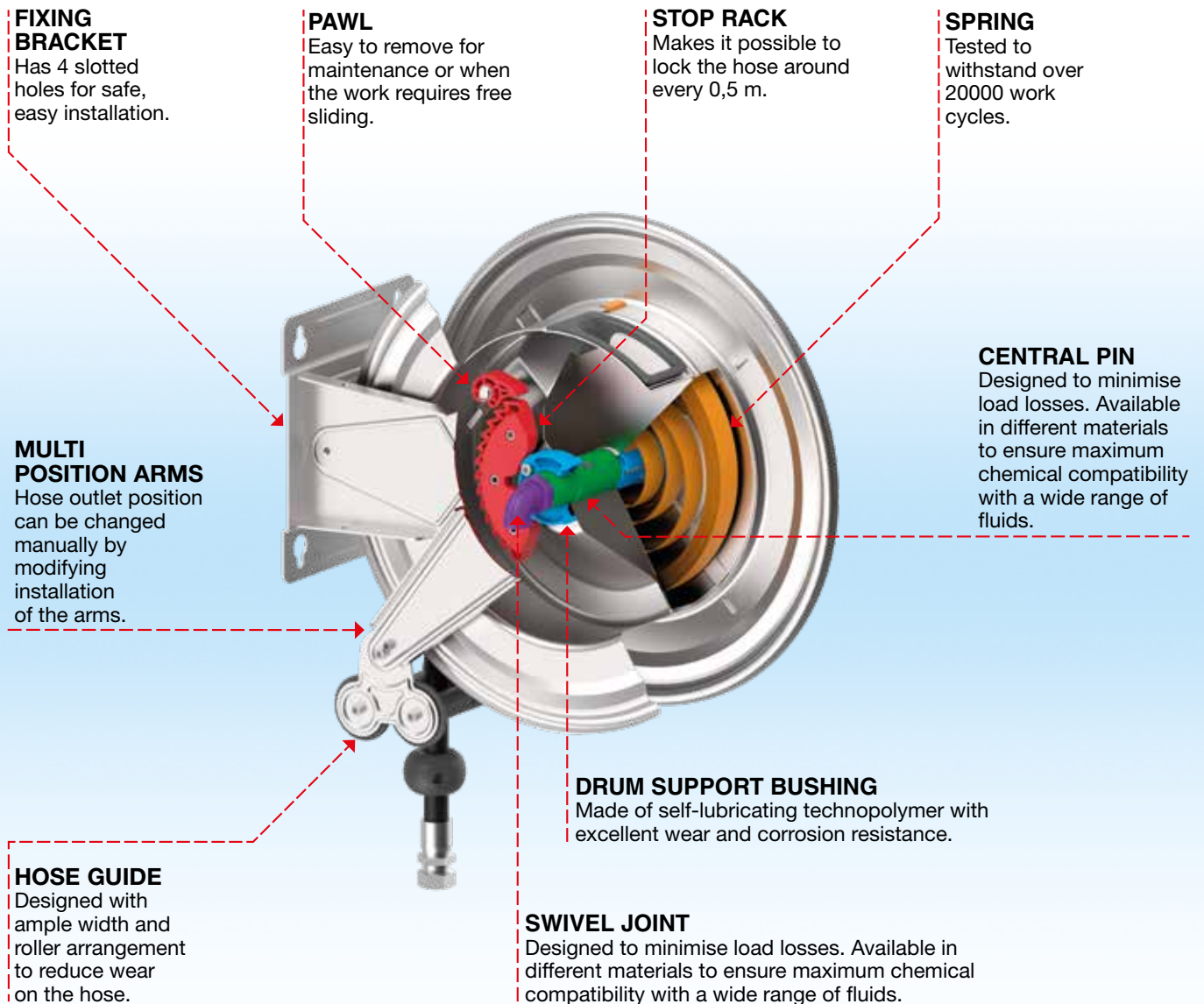
(W: width - D: depth - H: height)

SWIVELLING Overall dimensions (mm)											Series		Packaging (mm) W x D x H										
											A	B	C	D	E	F	G	H	I				
											390	184	146	106	144	98	410	390	482	155		580 x 280 x 590	
											430	208	162	118	164	97	450	415	540	264		580 x 280 x 590	
											530	228	182	154	200	104	535	510	642	315		650 x 290 x 700	
											540	300	218	227	268	165	535	510	700	315		660 x 390 x 690	

(W: width - D: depth - H: height)

⚠ See kits prepared with this hose reel on page 62.

Technical characteristics



AISI 304 Air-Water 10 - 20 bar

P/N		Hose supplied	Connection		Weight	
fixed	swivelling		inlet	outlet	fixed	swivelling

series 290 20 bar	8292.100	-	without hose *	G 3/8" (f)	G 3/8" (f)	10,0 kg	-
	8292.101	-	10 m - 3/8" (995.210)	G 3/8" (f)	G 3/8" (m)	12,0 kg	-
	8292.104	-	15 m - 1/4" (993.215)	G 3/8" (f)	G 1/4" (m)	12,0 kg	-

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"
	max. length	16 m	14 m	10 m

s. 330 20 bar	8332.100	-	without hose *	G 3/8" (f)	G 3/8" (f)	11,2 kg	-
	8332.101	-	12 m - 3/8" (995.211)	G 3/8" (f)	G 3/8" (m)	13,5 kg	-
	8333.101	-	12 m - 3/8" (995.112)	G 3/8" (f)	G 3/8" (m)	13,4 kg	-

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	18 m	16 m	14 m	12 m

s. 390 20 bar	8392.100	8382.100	without hose *	G 3/8" (f)	G 3/8" (f)	13,0 kg	13,5 kg
	8392.102	8382.102	18 m - 3/8" (995.217)	G 3/8" (f)	G 3/8" (m)	16,0 kg	16,5 kg

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	20 m	20 m	18 m	15 m

series 430 20 bar	8432.100	8422.100	without hose *	G 1/2" (f)	G 1/2" (f)	16,0 kg	16,5 kg
	8432.101	8422.101	12 m - 3/8" (995.212)	G 1/2" (f)	G 3/8" (m)	18,7 kg	19,2 kg
	8432.102	8422.102	18 m - 3/8" (995.218)	G 1/2" (f)	G 3/8" (m)	19,5 kg	20,0 kg
	8432.103	8422.103	10 m - 1/2" (996.210)	G 1/2" (f)	G 1/2" (m)	19,2 kg	19,7 kg
	8432.104	8422.104	15 m - 1/2" (996.215)	G 1/2" (f)	G 1/2" (m)	20,2 kg	20,7 kg
	8432.150	-	without hose **	G 1" (f)	G 3/4" (f)	17,0 kg	-
10 bar	8434.102	-	15 m - 1/2" (986.115)	G 1/2" (f)	G 1/2" (m)	19,2 kg	-

Hose reel capacity	inner hose Ø	*	5/16"	3/8"	1/2"	**	5/8"	3/4"
	max. length		20 m	20 m	16 m		14 m	8 m

series 530 20 bar	8532.100	8522.100	without hose *	G 1/2" (f)	G 1/2" (f)	21,0 kg	22,0 kg
	8532.101	8522.101	20 m - 1/2" (996.220)	G 1/2" (f)	G 1/2" (m)	26,5 kg	27,5 kg
	8532.102	8522.102	25 m - 1/2" (996.225)	G 1/2" (f)	G 1/2" (m)	27,3 kg	28,3 kg
	8532.150	-	without hose **	G 1" (f)	G 1" (f)	22,0 kg	-
10 bar	8534.102	-	25 m - 1/2" (986.125)	G 1/2" (f)	G 1/2" (m)	27,1 kg	-

Hose reel capacity	inner hose Ø	*	3/8"	1/2"	5/8"	**	3/4"	1"
	max. length		25 m	25 m	22 m		12 m	8 m

series 540 20 bar	8542.100	8552.100	without hose *	G 1" (f)	G 1" (f)	28,0 kg	33,5 kg
	8542.101	8552.101	15 m - 3/4" (997.215)	G 1" (f)	G 3/4" (m)	35,0 kg	40,5 kg
	8542.102	8552.102	20 m - 3/4" (997.220)	G 1" (f)	G 3/4" (m)	36,5 kg	42,0 kg
	8542.103	8552.103	15 m - 1" (998.215)	G 1" (f)	G 1" (m)	38,6 kg	44,1 kg
	8542.105	8552.105	without hose **	G 1/2" (f)	G 1/2" (f)	28,5 kg	34,0 kg
	8542.106	8552.106	30 m - 1/2" (996.230)	G 1/2" (f)	G 1/2" (m)	36,4 kg	41,9 kg
series 540 10 bar	8543.102	-	20 m - 3/4" (997.120)	G 3/4" (f)	G 3/4" (m)	36,5 kg	-
	8543.103	-	15 m - 1" (998.115)	G 1" (f)	G 1" (m)	38,0 kg	-
	8543.106	-	30 m - 1/2" (996.130)	G 1/2" (f)	G 1/2" (m)	36,5 kg	-

Hose reel capacity	inner hose Ø	*	5/8"	3/4"	1"	**	3/8"	1/2"	5/8"
	max. length		20 m	22 m	15 m		30 m	30 m	30 m

series 560 20 bar	8562.100	-	without hose *	G 1" (f)	G 1" (f)	48,0 kg	-
	8562.101	-	30 m - 3/4" (997.230)	G 1" (f)	G 3/4" (m)	60,0 kg	-
	8562.103	-	40 m - 3/4" (997.240)	G 1" (f)	G 3/4" (m)	63,0 kg	-
	8562.104	-	20 m - 1" (998.220)	G 1" (f)	G 1" (m)	60,6 kg	-
	8562.105	-	30 m - 1" (998.230)	G 1" (f)	G 1" (m)	64,0 kg	-
	8562.106	-	without hose **	G 1/2" (f)	G 1/2" (f)	47,5 kg	-
	8563.103	-	40 m - 3/4" (997.140)	G 1" (f)	G 3/4" (m)	63,5 kg	-
10 bar	8563.105	-	30 m - 1" (998.130)	G 1" (f)	G 1" (m)	64,5 kg	-

Hose reel capacity	inner hose Ø	*	5/8"	3/4"	1"	**	3/8"	1/2"	5/8"
	max. length		50 m	40 m	30 m		60 m	60 m	60 m

 Atoxic hygienic hose

 Black rubber hose

AISI 304 Hot water 50 - 100 bar

P/N		Hose supplied	Connection		Weight	
fixed	swivelling		inlet	outlet	fixed	swivelling

series 330 100 bar	8332.400	-	without hose *	G 1/2" (f)	G 3/8"(f) G 1/2"(f)	11,2 kg	-
	8332.201	-	12 m - 3/8" (995.313)	G 1/2" (f)	G 3/8" (m)	15,7 kg	-
	8333.202	-	12 m - 3/8" (995.412)	G 1/2" (f)	G 3/8" (m)	15,7 kg	-

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	12 m	12 m	12 m	11 m

series 390 100 bar	8392.200	8382.200	without hose *	G 1/2" (f)	G 3/8"(f) G 1/2"(f)	13,0 kg	13,5 kg
	8392.202	8382.202	17 m - 3/8" (995.318)	G 1/2" (f)	G 3/8" (m)	19,0 kg	19,5 kg
	8393.201	8383.201	12 m - 3/8" (995.412)	G 1/2" (f)	G 3/8" (m)	17,5 kg	18,0 kg

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	15 m	16 m	17 m	12 m

series 430 100 bar	8434.200	8424.200	without hose *	G 1/2" (f)	G 1/2" (f)	16,0 kg	16,5 kg
	8434.250	-	without hose **	G 1" (f)	G 3/4" (f)	17,0 kg	-
	8432.201	8422.201	10 m - 1/2" (996.311)	G 1/2" (f)	G 1/2" (m)	20,7 kg	21,2 kg
	8432.202	8422.202	15 m - 1/2" (996.316)	G 1/2" (f)	G 1/2" (m)	22,1 kg	22,6 kg
	8433.202	8423.202	15 m - 1/2" (996.415)	G 1/2" (f)	G 1/2" (m)	22,1 kg	22,6 kg

Hose reel capacity	inner hose Ø	*	5/16"	3/8"	1/2"	**	5/8"	3/4"
	max. length		20 m	20 m	16 m		14 m	8 m

series 530 100 bar	8534.200	8524.200	without hose *	G 1/2" (f)	G 1/2" (f)	21,0 kg	22,0 kg
	8532.201	8522.201	20 m - 1/2" (996.321)	G 1/2" (f)	G 1/2" (m)	30,0 kg	31,0 kg
	8534.250	-	senza tubo **	G 1" (f)	G 1" (f)	22,5 kg	-
	8533.202	8523.202	25 m - 1/2" (996.425)	G 1/2" (f)	G 1/2" (m)	32,0 kg	33,0 kg

Hose reel capacity	inner hose Ø	*	3/8"	1/2"	5/8"	**	3/4"	1"
	max. length		25 m	25 m	22 m		12 m	8 m

series 540 100 bar	8544.200	8554.200	without hose *	G 1" (f)	G 1" (f)	28,0 kg	33,5 kg
	8542.202	8552.202	20 m - 3/4" (997.320)	G 1" (f)	G 3/4" (m)	40,7 kg	46,2 kg
	8544.205	8554.205	without hose **	G 1/2" (f)	G 1/2" (f)	28,5 kg	34,0 kg
	8543.202	8553.202	20 m - 3/4" (997.420)	G 1" (f)	G 3/4" (m)	40,7 kg	46,2 kg

s. 540 50 bar	8542.203	8552.203	15 m - 1" (998.315)	G 1" (f)	G 1" (m)	42,0 kg	47,5 kg
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Hose reel capacity	inner hose Ø	*	5/8"	3/4"	1"	**	3/8"	1/2"	5/8"
	max. length		20 m	22 m	15 m		30 m	30 m	30 m

s. 560 100 bar	8564.200	-	without hose *	G 1" (f)	G 1" (f)	48,0 kg	-
	8564.206	-	without hose **	G 1/2" (f)	G 1/2" (f)	47,5 kg	-
s. 560 50 bar	8562.205	-	30 m - 1" (998.330)	G 1" (f)	G 1" (m)	78,2 kg	-

Hose reel capacity	inner hose Ø	*	5/8"	3/4"	1"	**	3/8"	1/2"	5/8"
	max. length		50 m	40 m	30 m		60 m	60 m	60 m

 Hygienic hose

 Black rubber hose

AISI 304 Hot water 200 bar

P/N		Hose supplied	Connection		Weight	
fixed	swivelling		inlet	outlet	fixed	swivelling

series 330 200 bar	8332.300	-	without hose *	G 3/8" (f)	G 3/8" (f)	11,2 kg	-
	8332.301	-	12 m - 5/16" (994.512)	G 3/8" (f)	G 3/8" (f)	14,8 kg	-
	8333.301	-	12 m - 5/16" (994.612)	G 3/8" (f)	G 3/8" (f)	14,8 kg	-

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	12 m	12 m	12 m	8 m

series 390 200 bar	8392.300	8382.300	without hose *	G 3/8" (f)	G 3/8" (f)	13,0 kg	13,5 kg
	8392.302	8382.302	17 m - 5/16" (994.517)	G 3/8" (f)	G 3/8" (f)	17,0 kg	17,5 kg
	8393.301	8383.301	12 m - 5/16" (994.612)	G 3/8" (f)	G 3/8" (f)	16,6 kg	17,1 kg

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	15 m	16 m	17 m	12 m

series 430 200 bar	8434.300	8424.300	without hose *	G 3/8" (f)	G 1/2" (f)	16,0 kg	16,5 kg
	8432.301	8422.301	12 m - 3/8" (995.512)	G 3/8" (f)	G 3/8" (f)	20,3 kg	20,8 kg
	8432.302	8422.302	18 m - 3/8" (995.518)	G 3/8" (f)	G 3/8" (f)	22,4 kg	22,9 kg
	8433.302	8423.302	18 m - 3/8" (995.618)	G 3/8" (f)	G 3/8" (f)	22,4 kg	22,9 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"	1/2"
	max. length	20 m	20 m	16 m

series 530 200 bar	8534.300	8524.300	without hose *	G 3/8" (f)	G 1/2" (f)	21,0 kg	22,0 kg
	8532.301	8522.301	20 m - 3/8" (995.520)	G 3/8" (f)	G 3/8" (f)	27,0 kg	28,0 kg
	8532.302	8522.302	25 m - 3/8" (995.525)	G 3/8" (f)	G 3/8" (f)	28,5 kg	29,5 kg
	8533.302	8523.302	25 m - 3/8" (995.625)	G 3/8" (f)	G 3/8" (f)	28,5 kg	29,5 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	25 m	25 m	22 m

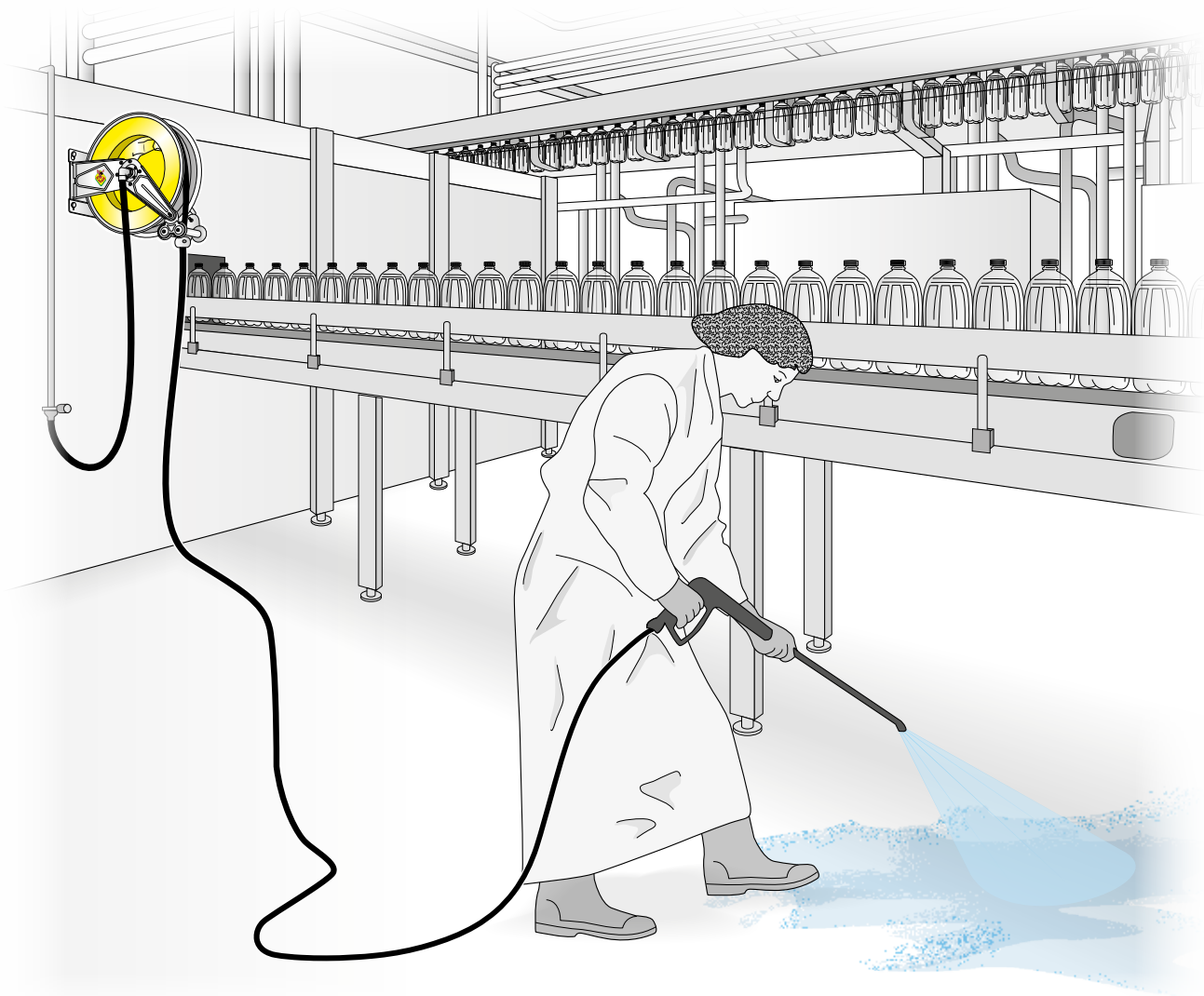
series 540 200 bar	8544.300	8554.300	without hose *	G 3/8" (f)	G 1/2" (f)	28,5 kg	34,0 kg
	8542.301	8552.301	30 m - 3/8" (995.530)	G 3/8" (f)	G 3/8" (f)	36,8 kg	42,3 kg
	8543.301	8553.301	30 m - 3/8" (995.630)	G 3/8" (f)	G 3/8" (f)	36,8 kg	42,3 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	30 m	30 m	30 m

series 560 200 bar	8564.300	-	without hose *	G 3/8" (f)	G 1/2" (f)	47,5 kg	-
	8562.301	-	40 m - 3/8" (995.540)	G 3/8" (f)	G 3/8" (f)	59,0 kg	-
	8562.302	-	50 m - 3/8" (995.550)	G 3/8" (f)	G 3/8" (f)	64,8 kg	-

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	60 m	60 m	60 m

Hygienic hose
 Black rubber hose



AISI 304 Hot water 400 - 700 bar

P/N		Hose supplied	Connection		Weight	
fixed	swivelling		inlet	outlet	fixed	swivelling

s. 330 400 bar	8332.350	-	without hose *	G 3/8" (f)	G 3/8" (f)	11,2 kg	-
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* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	12 m	12 m	12 m	8 m

s. 390 400 bar	8392.350	8382.350	without hose *	G 3/8" (f)	G 3/8" (f)	13,0 kg	13,5 kg
	8392.352	8382.352	17 m - 5/16" (994.717)	G 3/8" (f)	G 3/8" (f)	20,7 kg	21,2 kg

* Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	15 m	16 m	17 m	12 m

series 430 400 bar	8434.350	8424.350	without hose *	G 3/8" (f)	G 1/2" (f)	16,0 kg	16,5 kg
	8432.354	8422.354	15 m - 3/8" (995.815)	G 3/8" (f)	G 3/8" (f)	23,1 kg	23,6 kg
	8433.354	8423.354	15 m - 3/8" (995.915)	G 3/8" (f)	G 3/8" (f)	23,1 kg	23,6 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"
	max. length	12 m	15 m

s. 530 400 bar	8534.350	8524.350	without hose *	G 3/8" (f)	G 1/2" (f)	21,0 kg	22,0 kg
	8532.352	8522.352	25 m - 3/8" (995.825)	G 3/8" (f)	G 3/8" (f)	31,8 kg	32,8 kg
	8533.352	8523.352	25 m - 3/8" (995.925)	G 3/8" (f)	G 3/8" (f)	31,8 kg	32,8 kg
s. 530 700 bar	8534.550	-	without hose *	G 3/8" (f)	G 3/8" (f)	21,0 kg	-

* Hose reel capacity	inner hose Ø	3/8"	1/2"
	max. length.	25 m	25 m

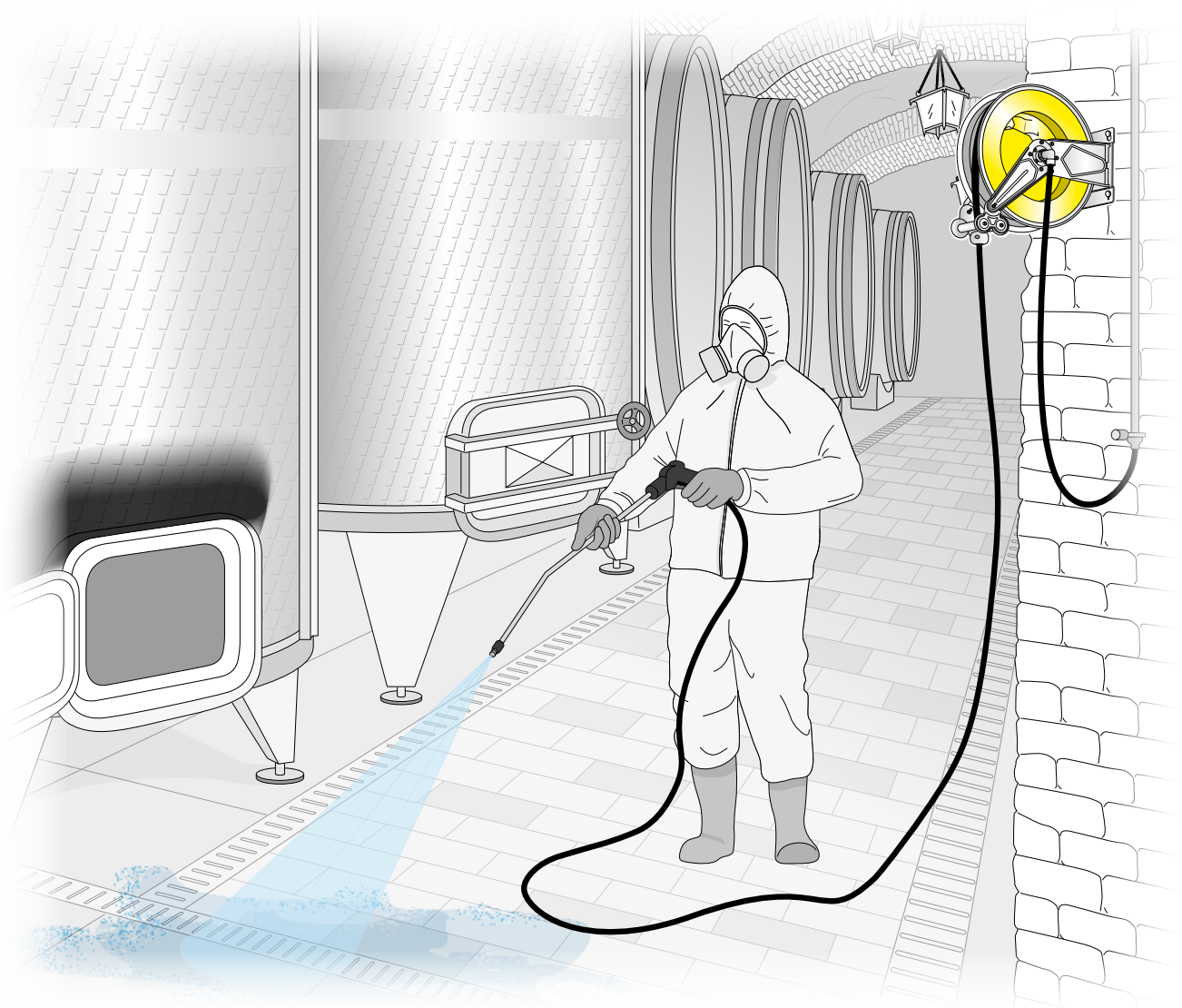
s. 540 400 bar	8544.350	8554.350	without hose *	G 3/8" (f)	G 1/2" (f)	28,0 kg	33,5 kg
s. 540 700 bar	8544.550	-	without hose *	G 3/8" (f)	G 3/8" (f)	28,5 kg	-

* Hose reel capacity	inner hose Ø	3/8"	1/2"
	max. length	30 m	30 m

s. 560 400 bar	8564.350	-	without hose *	G 3/8" (f)	G 1/2" (f)	48,0 kg	-
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* Hose reel capacity	inner hose Ø	3/8"	1/2"
	max. length	60 m	60 m

Hygienic hose
 Black rubber hose





FIXED AND SWIVELLING OPEN HOSE REELS made of **AISI 316** stainless steel

series 430

series 530

series 540

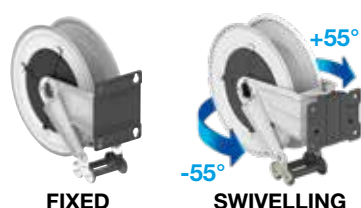
series 560



In accordance with directive



- 0,6 m inlet hose in the versions with the hose.
- Multi-position arms.
- Customizable with **"Speed Control"** rewinding brake or **"M-Arte"** automatic hose guide.
- Hose stop available for all standard models, even those supplied without hose.



Can be rendered swivelling by using the special bracket, see page 25.

Technical data	
Type of fluid	hot water
Pressure	100 bar - 200 bar - 400 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton® -Teflon®	AISI 316 s. steel	AISI 316 s. steel
		

FIXED Overall dimensions (mm)											Packaging (mm) W x D x H	
Series	A	B	C	D	E	F	G	H	I			
430	186	140	197	226	97	450	415	456	264			580 x 280 x 590
530	203	153	221	258	104	535	510	558	315			650 x 290 x 700
540	300	218	227	268	165	535	510	572	315			660 x 390 x 690
560	488	399	238	272	348	535	510	578	315			670 x 610 x 760

(W: width - D: depth - H: height)

SWIVELLING Overall dimensions (mm)											Packaging (mm) W x D x H	
Series	A	B	C	D	E	F	G	H	I			
430	208	162	118	164	97	450	415	540	264			580 x 280 x 590
530	228	182	154	200	104	535	510	642	315			650 x 290 x 700
540	300	218	227	268	165	535	510	700	315			660 x 390 x 690

(W: width - D: depth - H: height)

 See kits prepared with this hose reel on page 62.

AISI 316 Hot water 100 - 200 - 400 bar



P/N	Hose supplied	Connection		Weight
		inlet	outlet	
s. 430 100 bar	8435.200	without hose *	G 1/2" (f)	16,0 kg
s. 430 200 bar	8435.300	without hose **	G 3/8" (f)	16,0 kg
s. 430 400 bar	8435.350	without hose **	G 3/8" (f)	16,0 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"	1/2"
	max. length	20 m	20 m	16 m
** Hose reel capacity	inner hose Ø	5/16"	3/8"	
	max. length	12 m	15 m	



s. 530 100 bar	8535.200	without hose *	G 1/2" (f)	G 1/2" (f)	21,0 kg
s. 530 200 bar	8535.300	without hose **	G 3/8" (f)	G 1/2" (f)	21,0 kg
s. 530 400 bar	8535.350	without hose **	G 3/8" (f)	G 1/2" (f)	21,0 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	25 m	25 m	22 m
** Hose reel capacity	inner hose Ø	3/8"	1/2"	
	max. length	25 m	25 m	



s. 540 100 bar	8545.200	without hose *			G 1" (f)	G 1" (f)	28,0 kg
	8545.205	without hose **			G 1/2" (f)	G 1/2" (f)	28,5 kg
* Hose reel capacity	inner hose Ø	5/8"	3/4"	1"			
	max. length	20 m	22 m	15 m			
** Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"			
	max. length	32 m	33 m	36 m			



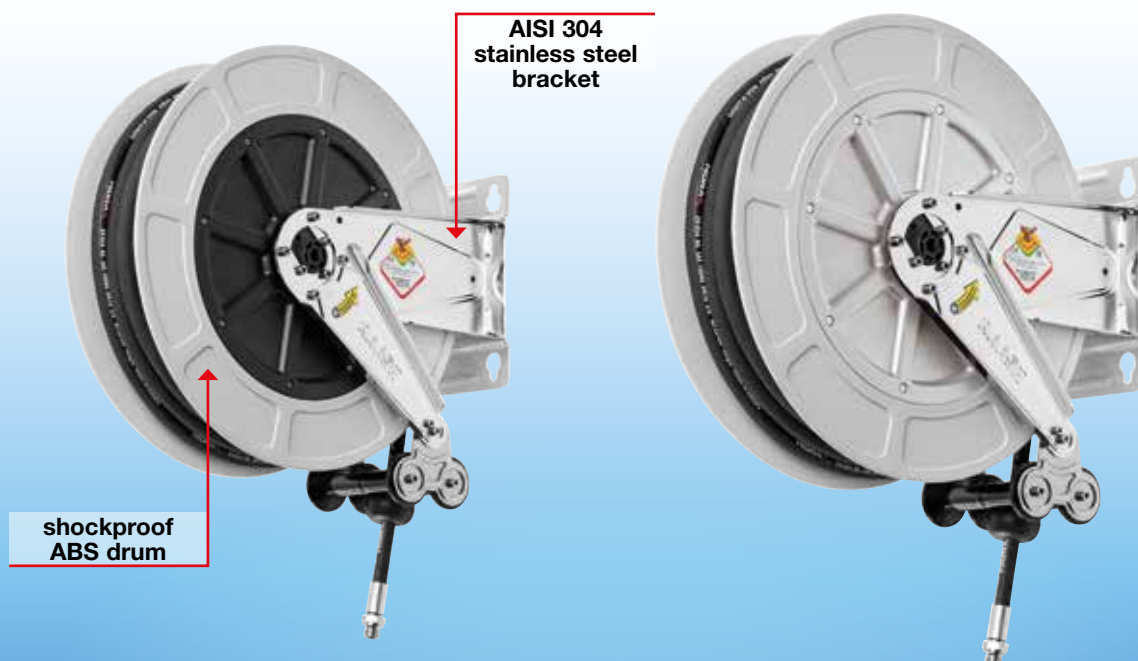
s. 560 100 bar	8565.200	without hose *			G 1" (f)	G 1" (f)	48,5 kg
	8565.206	without hose **			G 1/2" (f)	G 1/2" (m)	47,5 kg
* Hose reel capacity	inner hose Ø	5/8"	3/4"	1"			
	max. length	50 m	40 m	30 m			
** Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"			
	max. length	60 m	60 m	60 m			



FIXED AND SWIVELLING OPEN HOSE REELS WITH ABS* with AISI 304 stainless steel brackets

series 430 ABS

series 530 ABS



In accordance with directive



- 0,6 m inlet hose in the versions with the hose.
- Multi-position arm.
- Customizable with “Speed Control” rewinding brake or “M-Arte” automatic hose guide.
- Hose stop available for all standard models, even those supplied without hose.
- Rewinding spring totally sealed from the working environment designed for series 530 ABS.

Technical data		
Type of fluid	air-water	hot water
Pressure	10 bar - 20 bar	100 bar - 200 bar - 400 bar
Working temperature	≤ 100 °C	≤ 130 °C

Hoses		Connections	Seals	Swivel joint	Central pin
black rubber	hygienic hose	galvanized steel - AISI 316 s. steel	Viton® - Teflon®	brass - AISI 304 s. steel	AISI 304 s. steel



Can be rendered swivelling by using the special bracket, see page 25.

FIXED Overall dimensions (mm)											Packaging (mm) W x D x H	
Series	A	B	C	D	E	F	G	H	I			
430 ABS	186	140	197	226	110	450	425	461	259			580 x 280 x 590
530 ABS	203	153	221	258	121	535	510	558	327			650 x 290 x 700

(W: width - D: depth - H: height)

* “Acrylonitrile Butadiene Styrene”, a technoplastic polymer.

⚠ See kits prepared with this hose reel on page 62.

ABS Air-Water 10 - 20 bar

P/N	Hose supplied	Connection		Weight
		inlet	outlet	

series 430 ABS 20 bar	9432.100	without hose *	G 1/2" (f)	G 1/2" (f)	12,5 kg
	9432.101	12 m - 3/8" (995.212)	G 1/2" (f)	G 3/8" (m)	15,2 kg
	9432.102	18 m - 3/8" (995.218)	G 1/2" (f)	G 3/8" (m)	16,0 kg
	9432.103	10 m - 1/2" (996.210)	G 1/2" (f)	G 1/2" (m)	15,7 kg
	9432.104	15 m - 1/2" (996.215)	G 1/2" (f)	G 1/2" (m)	16,7 kg
10 bar	9434.102	15 m - 1/2" (986.115)	G 1/2" (f)	G 1/2" (m)	15,5 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"	1/2"
	max. length	20 m	20 m	16 m

series 530 ABS 20 bar	9532.100	without hose *	G 1/2" (f)	G 1/2" (f)	16,3 kg
	9532.101	20 m - 1/2" (996.220)	G 1/2" (f)	G 1/2" (m)	21,6 kg
	9532.102	25 m - 1/2" (996.225)	G 1/2" (f)	G 1/2" (m)	22,5 kg
	9534.102	25 m - 1/2" (986.125)	G 1/2" (f)	G 1/2" (m)	24,8 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	22 m	25 m	22 m

 Food approved hygienic hose

ABS Hot water 100 - 200 - 400 bar

P/N	Hose supplied	Connection		Weight
		inlet	outlet	

series 430 ABS 100 bar	9434.200	without hose *	G 1/2" (f)	G 1/2" (f)	12,5 kg
	9432.201	10 m - 1/2" (996.311)	G 1/2" (f)	G 1/2" (m)	17,3 kg
	9432.202	15 m - 1/2" (996.316)	G 1/2" (f)	G 1/2" (m)	18,7 kg
	9433.202	15 m - 1/2" (996.415)	G 1/2" (f)	G 1/2" (m)	20,0 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"	1/2"
	max. length	20 m	20 m	16 m

series 530 ABS 100 bar	9534.200	without hose *	G 1/2" (f)	G 1/2" (f)	16,3 kg
	9532.201	20 m - 1/2" (996.321)	G 1/2" (f)	G 1/2" (m)	25,0 kg
	9532.202	25 m - 1/2" (996.326)	G 1/2" (f)	G 1/2" (m)	26,3 kg
	9533.202	25 m - 1/2" (996.425)	G 1/2" (f)	G 1/2" (m)	26,9 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	25 m	25 m	22 m

series 430 ABS 200 bar	9434.300	without hose *	G 3/8" (f)	G 1/2" (f)	12,5 kg
	9432.301	12 m - 3/8" (995.512)	G 3/8" (f)	G 3/8" (f)	16,8 kg
	9432.302	18 m - 3/8" (995.518)	G 3/8" (f)	G 3/8" (f)	18,8 kg
	9433.302	18 m - 3/8" (995.618)	G 3/8" (f)	G 3/8" (f)	19,0 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"	1/2"
	max. length	20 m	20 m	16 m

series 530 ABS 200 bar	9534.300	without hose *	G 3/8" (f)	G 1/2" (f)	16,3 kg
	9532.301	20 m - 3/8" (995.520)	G 3/8" (f)	G 3/8" (f)	22,4 kg
	9532.302	25 m - 3/8" (995.525)	G 3/8" (f)	G 3/8" (f)	23,6 kg
	9533.302	25 m - 3/8" (995.625)	G 3/8" (f)	G 3/8" (f)	24,0 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"	5/8"
	max. length	25 m	25 m	22 m

s. 430 ABS 400 bar	9434.350	without hose *	G 3/8" (f)	G 1/2" (f)	12,5 kg
	9432.353	10 m - 3/8" (995.810)	G 3/8" (f)	G 3/8" (f)	18,4 kg
	9432.354	15 m - 3/8" (995.815)	G 3/8" (f)	G 3/8" (f)	20,8 kg

* Hose reel capacity	inner hose Ø	5/16"	3/8"
	max. length	12 m	15 m

s. 530 ABS 400 bar	9534.350	without hose *	G 3/8" (f)	G 1/2" (f)	16,3 kg
	9532.352	25 m - 3/8" (995.825)	G 3/8" (f)	G 3/8" (f)	27,0 kg
	9533.352	25 m - 3/8" (995.925)	G 3/8" (f)	G 3/8" (f)	30,3 kg

* Hose reel capacity	inner hose Ø	3/8"	1/2"
	max. length	25 m	25 m

 Hygienic hose  Black rubber hose



AUTOMATIC HOSE GUIDE IN AISI 316 STAINLESS STEEL



P/N 79/44312

Automatic hose guide in AISI 316 stainless steel for hose reel s. 430, hoses up to 1/2".

P/N 79/45301

Automatic hose guide in AISI 316 stainless steel for hose reel s. 530, hoses up to 1".

P/N 79/45312

Automatic hose guide in AISI 316 stainless steel for hose reel s. 530, hoses up to 1/2".

P/N 79/45401

Automatic hose guide in AISI 316 stainless steel for hose reel s. 540, hoses up to 3/4".

P/N 79/45402

Automatic hose guide in AISI 316 stainless steel for hose reel s. 540, 1" hoses.

P/N 79/45412

Automatic hose guide in AISI 316 stainless steel for hose reel s. 540, hoses up to 1/2".

P/N 79/45601

Automatic hose guide in AISI 316 stainless steel for hose reel s. 560, hoses up to 3/4".

P/N 79/45602

Automatic hose guide in AISI 316 stainless steel for hose reel s. 560, 1" hoses.

P/N 79/45612

Automatic hose guide in AISI 316 stainless steel for hose reel s. 560, hoses up to 1/2".

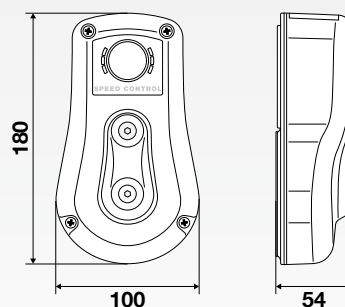
"SPEED CONTROL" REWINDING BRAKE

P/N 843020

"Speed Control" rewinding brake.

It guarantees the hose's rewinding at a limited speed and safely, in case of accidental release.

Available for series 430, 530, 540 and 560.



WALL BRACKET AND PROTECTIVE RACK

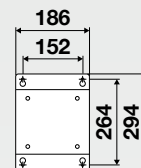


P/N 843002

P/N 843002

Fixed support in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 430.

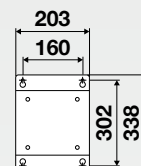


P/N 853002

P/N 853002

Fixed support in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 530.

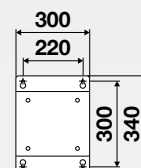


P/N 854002

P/N 854002

Fixed support in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 540.

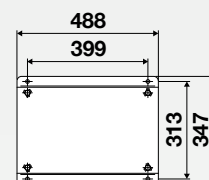


P/N 856002

P/N 856002

Fixed support in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 560.

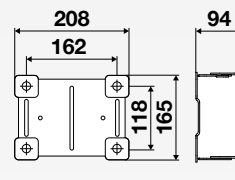


P/N 843006

P/N 843006

Swivelling bracket in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 430.

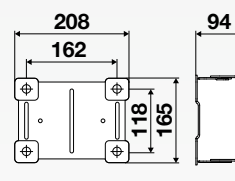


P/N 853006

P/N 843007

Swivelling bracket in AISI 316 stainless steel

for fixed hose reels in AISI 316 stainless steel series 430.



P/N 853007

P/N 853006

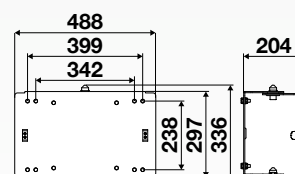
Swivelling bracket in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 530.

P/N 853007

Swivelling bracket in AISI 316 stainless steel

for fixed hose reels in AISI 316 stainless steel series 530.



P/N 854006

Swivelling bracket in AISI 304 stainless steel

for fixed hose reels in AISI 304 stainless steel series 540.

P/N 854007

Swivelling bracket in AISI 316 stainless steel for fixed hose reels in AISI 316 stainless steel series 540.

P/N 856007

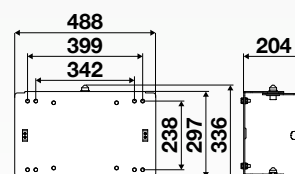
Swivelling bracket in AISI 316 stainless steel for fixed hose reels in AISI 316 stainless steel series 560.



P/N 854006

P/N 854007

P/N 856007



P/N 88650

Protective rack side cover in ABS

for hose reel series 430.

P/N 88651

Protective rack side cover in ABS

for hose reel series 530 - 540 - 560.



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

MANUAL HOSE REELS

Made of **AISI 304** or **AISI 316**
stainless steel



unreel with
SAFETY

The handle rotation lock system,
designed by RAASM,
allows you to work
without any concerns.





MANUAL HOSE REELS

made of **AISI 304** or **AISI 316** stainless steel

series 430

series 530

series 540

series 560



In accordance with directive



- Swivel joint: designed to minimise load losses. Available in different materials to ensure maximum chemical compatibility with a wide range of fluids.
- Fixing bracket: has 4 slotted holes for safe, easy installation.
- Standard safety system which prevents the handle from being turned during unwinding.
- Available for standard models: adjustable clutch that regulate the speed of drum rotation when unwinding the hose.

Technical data		
Type of fluid	air-water	hot water
Pressure	20 bar	100 bar - 200 bar - 400 bar
Working temperature	≤ 100 °C	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)			Series	A	B	C	D	E	F	G	H	I	Packaging (mm) W x D x H		
				430	186	140	197	226	410	97	456	415	264		540 x 390 x 580
				530	203	153	220	258	425	104	558	510	315		660 x 390 x 690
				540	300	218	228	268	532	165	572	510	315		640 x 470 x 695
				560	488	399	238	272	712	348	578	510	315		670 x 610 x 760

(W: width - D: depth - H: height)

 See kits prepared with this hose reel on page 62.

Technical characteristics

SWIVEL JOINT

Designed to minimise load losses.
Available in different materials
to ensure maximum chemical
compatibility with a wide range
of fluids.

DRUM SUPPORT BUSHING

Made of self-lubricating technopolymer with
excellent wear and corrosion resistance.

ADJUSTABLE CLUTCH

CENTRAL PIN

Designed to minimise load losses.
Available in different materials
to ensure maximum chemical
compatibility with a wide
range of fluids.

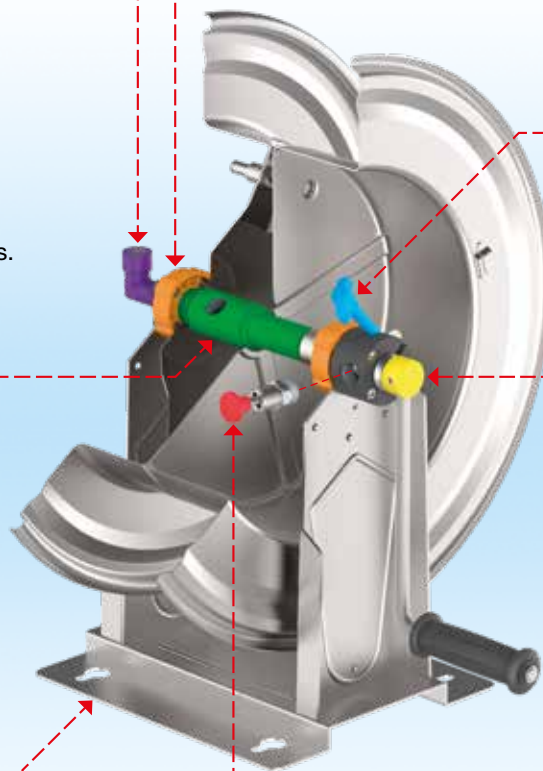
SAFETY SYSTEM

FIXING BRACKET

Has 4 slotted holes for safe, easy
installation.

ROTATION LOCK

The optional rotation lock is
recommended for use in
vibration environments
(trucks, industrial machines, etc.).



AISI 304 Air-Water 20 bar

P/N	Drum external width (mm)	Connection		Weight
		inlet	outlet	

s. 430 20 bar	74320.100	115	G 1/2" (f)	G 1/2" (f)	14,5 kg
	74320.150	115	G 1" (f)	G 3/4" (f)	15,5 kg

Hose reel capacity	inner hose ø	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
	max. length	52 m	35 m	25 m	17 m	15 m	8 m

s. 530 20 bar	75320.100	125	G 1/2" (f)	G 1/2" (f)	16,0 kg
	75320.150	125	G 1" (f)	G 1" (f)	17,0 kg

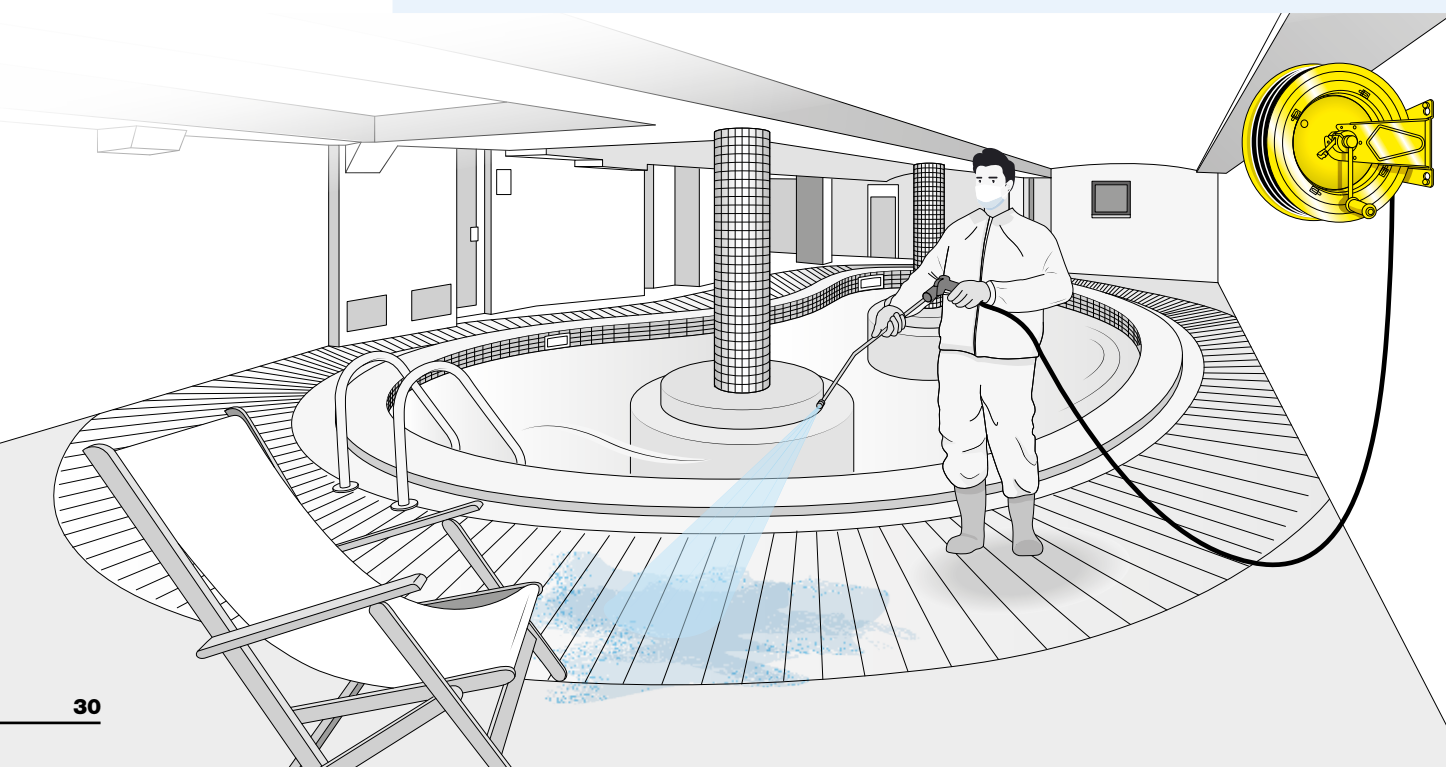
Hose reel capacity	inner hose ø	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	max. length	92 m	65 m	35 m	25 m	20 m	15 m	7 m

s. 540 20 bar	75420.100	190	G 1" (f)	G 1" (f)	18,5 kg
	75420.105	190	G 1/2" (f)	G 1/2" (f)	17,3 kg

Hose reel capacity	inner hose ø	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	max. length	150 m	110 m	65 m	45 m	35 m	25 m	15 m

s. 560 20 bar	75620.100	368	G 1" (f)	G 1" (f)	36,0 kg
	75620.106	368	G 1/2" (f)	G 1/2" (f)	35,0 kg

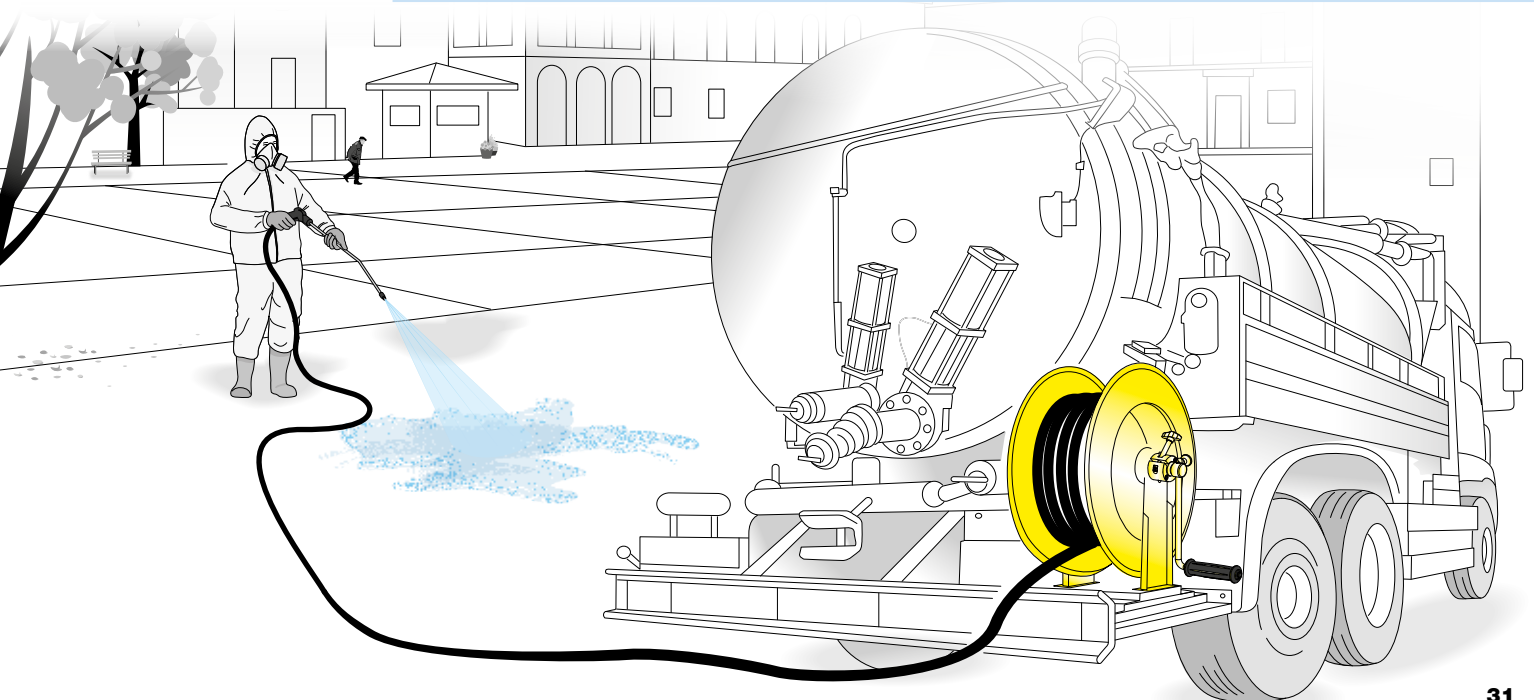
Hose reel capacity	inner hose ø	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	max. length	320 m	200 m	140 m	100 m	90 m	60 m	30 m



AISI 304 - 316 Hot water 100 - 200 - 400 bar



	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight			
				inlet	outlet				
s. 430 100 bar	74340.200	74350.200	115	G 1/2" (f)	G 1/2" (f)	14,5 kg			
	74340.250	-	115	G 1" (f)	G 3/4" (f)	15,5 kg			
s. 430 200 bar	74340.300	74350.300	115	G 3/8" (f)	G 1/2" (f)	14,5 kg			
s. 430 400 bar	74340.350	74350.350	115	G 3/8" (f)	G 1/2" (f)	14,5 kg			
Hose reel capacity		inner hose Ø max. length	1/4" 52 m	5/16" 35 m	3/8" 25 m	1/2" 17 m	5/8" 15 m	3/4" 8 m	
s. 530 100 bar	75340.200	75350.200	115	G 1/2" (f)	G 1/2" (f)	16,0 kg			
s. 530 200 bar	75340.300	75350.300	115	G 3/8" (f)	G 1/2" (f)	16,0 kg			
s. 530 400 bar	75340.350	75350.350	115	G 3/8" (f)	G 1/2" (f)	16,0 kg			
Hose reel capacity		inner hose Ø max. length	1/4" 92 m	5/16" 65 m	3/8" 35 m	1/2" 25 m	5/8" 20 m		
s. 540 100 bar	75440.200	75450.200	190	G 1" (f)	G 1" (f)	18,3 kg			
	75440.205	75450.205	190	G 1/2" (f)	G 1/2" (f)	17,3 kg			
s. 540 200 bar	75440.300	-	190	G 3/8" (f)	G 1/2" (f)	17,3 kg			
s. 540 400 bar	75440.350	-	190	G 3/8" (f)	G 1/2" (f)	17,3 kg			
Hose reel capacity		inner hose Ø max. length	1/4" 150 m	5/16" 110 m	3/8" 65 m	1/2" 17 m	5/8" 35 m	3/4" 25 m	1" 55 m
s. 560 100 bar	75640.200	75650.200	368	G 1" (f)	G 1" (f)	35,0 kg			
	75640.206	75650.206	368	G 1/2" (f)	G 1/2" (f)	35,0 kg			
s. 560 200 bar	75640.300	-	368	G 3/8" (f)	G 1/2" (f)	35,0 kg			
s. 560 400 bar	75640.350	-	368	G 3/8" (f)	G 1/2" (f)	35,0 kg			
Hose reel capacity		inner hose Ø max. length	1/4" 320 m	5/16" 200 m	3/8" 140 m	1/2" 100 m	5/8" 90 m	3/4" 60 m	1" 30 m

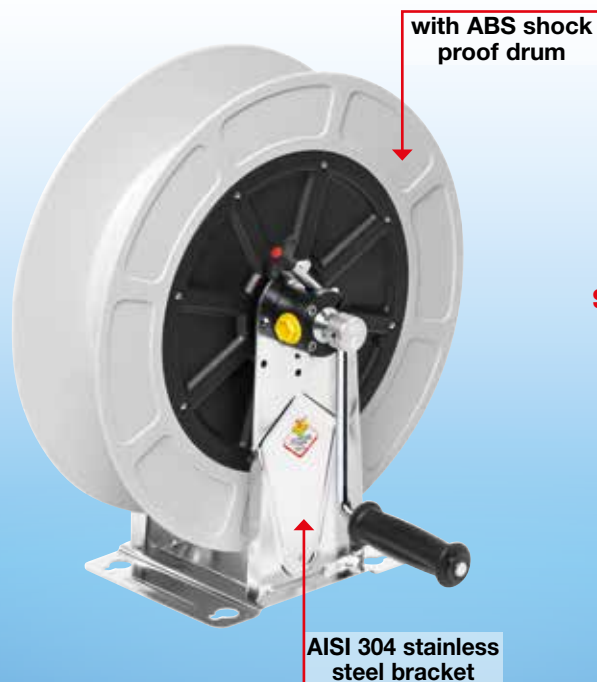




MANUAL HOSE REELS

WITH ABS*

with AISI 304 stainless steel bracket



series 430 ABS

In accordance with directive



AISI 304 air-water 20 bar

	P/N	Drum external width (mm)	Connection		Weight
			inlet	outlet	
series 430 20 bar	74325.100	120	G 1/2" (f)	G 1/2" (f)	12,0 kg

Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"	5/8"
	max. length	52 m	35 m	25 m	17 m	15 m

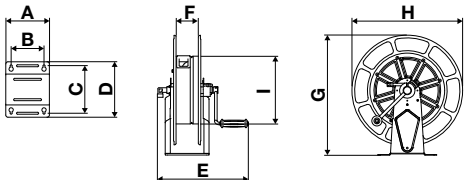
AISI 304 hot water 100 - 200 - 400 bar

series 430 100 bar	74345.200	120	G 1/2" (f)	G 1/2" (f)	12,0 kg
series 430 200 bar	74345.300	120	G 3/8" (f)	G 1/2" (f)	12,0 kg
series 430 400 bar	74345.350	120	G 3/8" (f)	G 1/2" (f)	12,0 kg

Hose reel capacity	inner hose Ø	1/4"	5/16"	3/8"	1/2"
	max. length	52 m	35 m	25 m	17 m

Technical data		
Type of fluid	air-water	hot water
Capacity	20 bar	100 bar - 200 bar - 400 bar
Working pressure	≤ 100 °C	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel - brass	AISI 304 - 316 s. steel
		

Overall dimensions (mm)		Series	A	B	C	D	E	F	G	H	I	Packaging (mm) W x D x H	
		430 ABS	186	140	197	226	410	97	456	415	264		540 x 390 x 580

(W: width - D: depth - H: height)

* "Acrylonitrile Butadiene Styrene", a technoplastic polymer.

⚠ See kits prepared with this hose reel on page 62.





TROLLEY-MOUNTED MANUAL HOSE REELS

made of **AISI 304** or **AISI 316** stainless steel



series 530



series 540



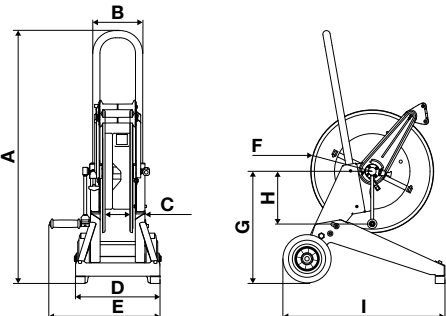
series 560

- Rotation lock as standard.
- Standard safety system that prevents the handle from being turned during unwinding.
- Adjustable clutch as standard.
- Fold-in handle as standard.
- Wheels and rubber stoppers made of hygienic **rubber available** on request.
- “**Super Block**”, is the automatic trolley brake created by RAASM for the stationary position.

**super
BLOCK**

Technical data		
Type of fluid	air-water	hot water
Pressure	20 bar	100 bar - 200 bar - 400 bar
Working temperature	≤ 100 °C	≤ 130 °C

Trolley and drum	Seals	Swivel joint	Central pin
AISI 304 - 316 s. steel	Viton® - Teflon®	brass - AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
			

Overall dimensions (mm)		Series	A	B	C	D	E	F	G	H	I	Packaging (mm) W x D x H	
		530	1050	210	104	350	464	510	463	205	675		650 x 290 x 700
		540	1050	270	165	413	530	510	463	205	675		660 x 390 x 690
		560	1050	450	348	595	705	510	463	205	675		670 x 610 x 760

(W: width - D: depth - H: height)

 See kits prepared with this hose reel on page 62.

Technical characteristics

ROTATION LOCK

HOSE GUIDE

SWIVEL JOINT

Designed to minimise load losses.
Available in different materials to ensure maximum chemical compatibility with a wide range of fluids.

SAFETY SYSTEM

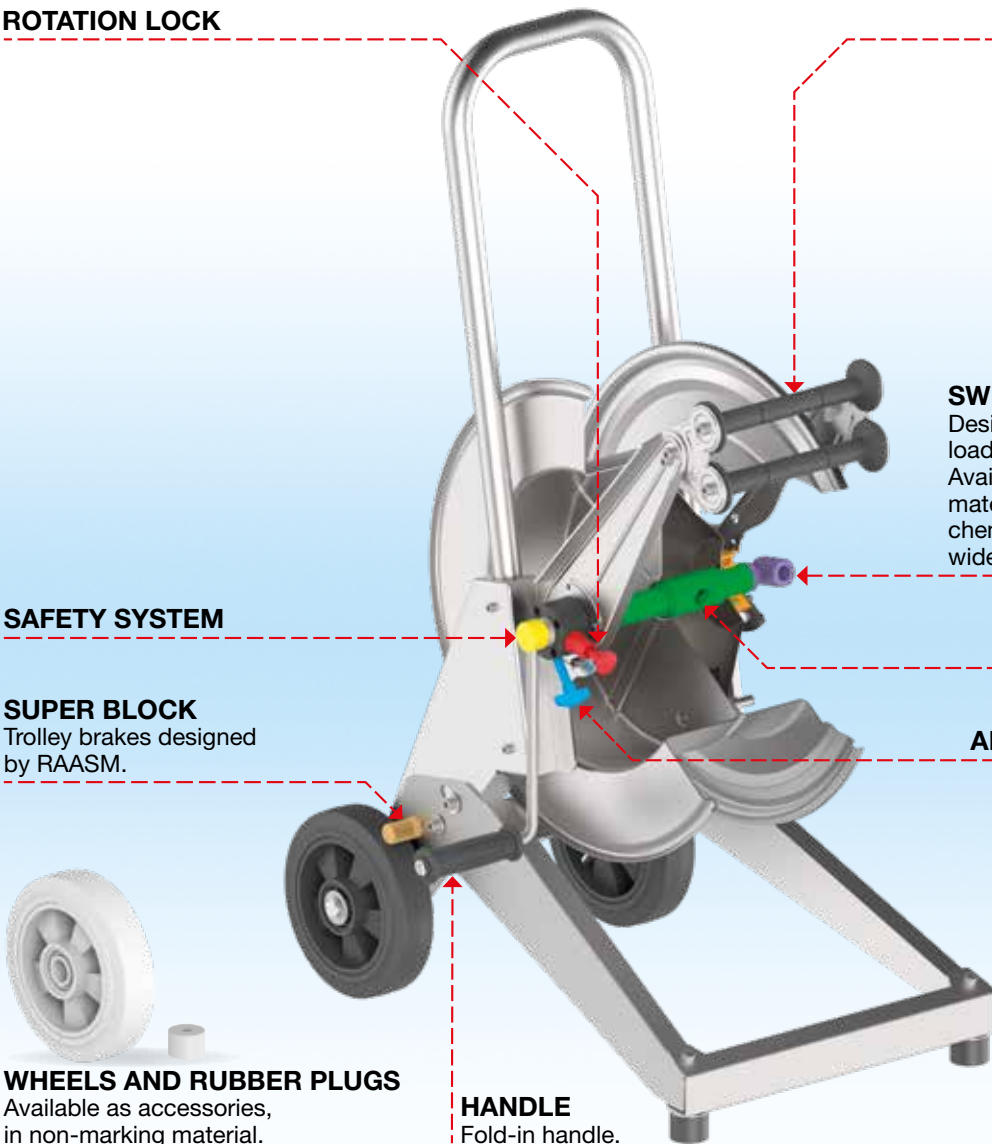
CENTRAL PIN

SUPER BLOCK
Trolley brakes designed by RAASM.

ADJUSTABLE CLUTCH

WHEELS AND RUBBER PLUGS
Available as accessories, in non-marking material.

HANDLE
Fold-in handle.





series 530



series 540



series 560

P/N AISI 304 s. steel	P/N AISI 316 s. steel	Hose supplied	Connection		Weight
			inlet	outlet	

AIR-WATER 20 bar

series 530	246532.100	-	without hose *	G 1/2" (f)	G 1/2" (f)	29,0 kg			
* Hose reel capacity		inner hose Ø max. length	1/4" 90 m	5/16" 65 m	3/8" 35 m	1/2" 25 m	5/8" 20 m	3/4" 15 m	1" 7 m
series 540	246542.100	-	without hose *	G 1" (f)	G 1" (f)	34,0 kg			
	246542.105	-	without hose *	G 1/2" (f)	G 1/2" (f)	33,0 kg			
* Hose reel capacity		inner hose Ø max. length	1/4" 150 m	5/16" 110 m	3/8" 65 m	1/2" 45 m	5/8" 35 m	3/4" 25 m	1" 15 m
series 560	246562.100	-	without hose *	G 1" (f)	G 1" (f)	40,0 kg			
	246562.105	-	without hose *	G 1/2" (f)	G 1/2" (f)	39,0 kg			
* Hose reel capacity		inner hose Ø max. length	1/4" 320 m	5/16" 240 m	3/8" 140 m	1/2" 100 m	5/8" 90 m	3/4" 60 m	1" 30 m

HOT WATER 100 bar

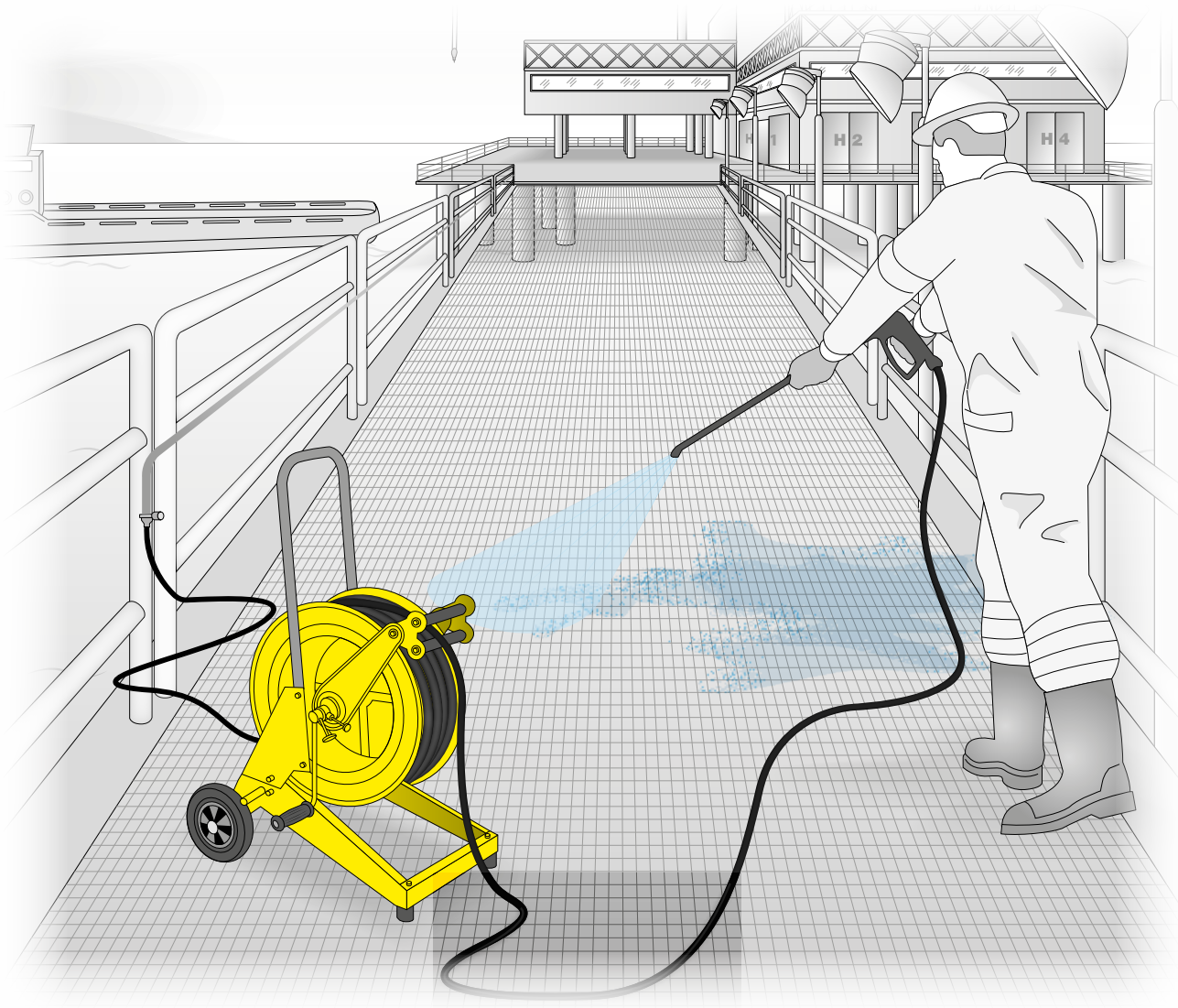
series 530	246534.200	256535.200	without hose *	G 1/2" (f)	G 1/2" (f)	29,0 kg				
* Hose reel capacity			inner hose Ø max. length	1/4" 90 m	5/16" 65 m	3/8" 35 m	1/2" 25 m	5/8" 20 m	3/4" 15 m	1" 7 m
series 540	246544.200	256545.200	without hose *	G 1" (f)	G 1" (f)	34,0 kg				
	246544.205	256545.205	without hose *	G 1/2" (f)	G 1/2" (f)	33,0 kg				
* Hose reel capacity			inner hose Ø max. length	1/4" 150 m	5/16" 110 m	3/8" 65 m	1/2" 45 m	5/8" 35 m	3/4" 25 m	1" 15 m
series 560	246564.200	256565.200	without hose *	G 1" (f)	G 1" (f)	40,0 kg				
	246564.205	256565.205	without hose *	G 1/2" (f)	G 1/2" (f)	35,0 kg				
* Hose reel capacity			inner hose Ø max. length	1/4" 320 m	5/16" 240 m	3/8" 140 m	1/2" 100 m	5/8" 90 m	3/4" 60 m	1" 30 m

HOT WATER 200 bar

series 530	246534.300	256535.300	without hose *	G 3/8" (f)	G 1/2" (f)	29,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 90 m	5/16" 65 m	3/8" 35 m	1/2" 25 m
series 540	246544.300	256545.300	without hose *	G 3/8" (f)	G 1/2" (f)	33,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 150 m	5/16" 110 m	3/8" 65 m	1/2" 45 m
series 560	246564.300	256565.300	without hose *	G 3/8" (f)	G 1/2" (f)	40,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 320 m	5/16" 240 m	3/8" 140 m	1/2" 100 m

HOT WATER 400 bar

series 530	246534.350	256535.350	without hose *	G 3/8" (f)	G 1/2" (f)	29,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 90 m	5/16" 65 m	3/8" 35 m	
series 540	246544.350	256545.350	without hose *	G 3/8" (f)	G 1/2" (f)	33,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 150 m	5/16" 110 m	3/8" 65 m	
series 560	246564.350	256565.350	without hose *	G 3/8" (f)	G 1/2" (f)	40,0 kg
* Hose reel capacity		inner hose Ø max. length	1/4" 320 m	5/16" 240 m	3/8" 140 m	

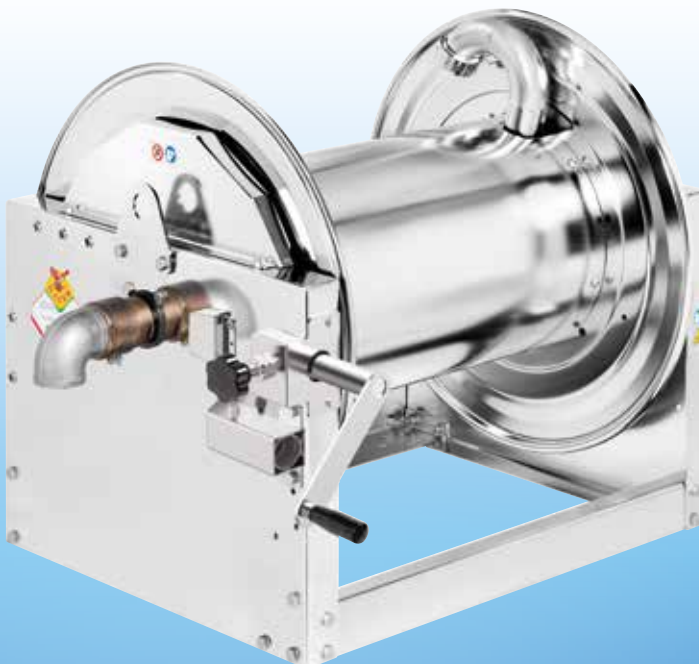




MANUAL HOSE REELS SERIES 700

made of **AISI 304** or **AISI 316** stainless steel

The manual hose reels are a handy and easy answer to the problem of hose management. Given their simple operation, they are practically maintenance free.

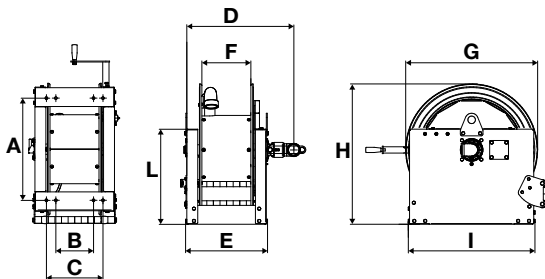


	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight
				inlet	outlet	
series 700 70 bar	7724001.200	7725001.200	270	G 2" (f)	G 2" (f)	88,1 kg
	7744001.200	7745001.200	410	G 2" (f)	G 2" (f)	94,6 kg
	7754001.200	7755001.200	550	G 2" (f)	G 2" (f)	103,0 kg
	7774001.200	7775001.200	690	G 2" (f)	G 2" (f)	119,0 kg

Hose reel capacity s. 700	inner hose ø	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	max. length 270	160 m	110 m	65 m	30 m	20 m	15 m	10 m
	max. length 410	290 m	180 m	120 m	60 m	35 m	30 m	20 m
	max. length 550	420 m	280 m	180 m	100 m	60 m	50 m	30 m
	max. length 690	550 m	350 m	244 m	134 m	84 m	75 m	43 m

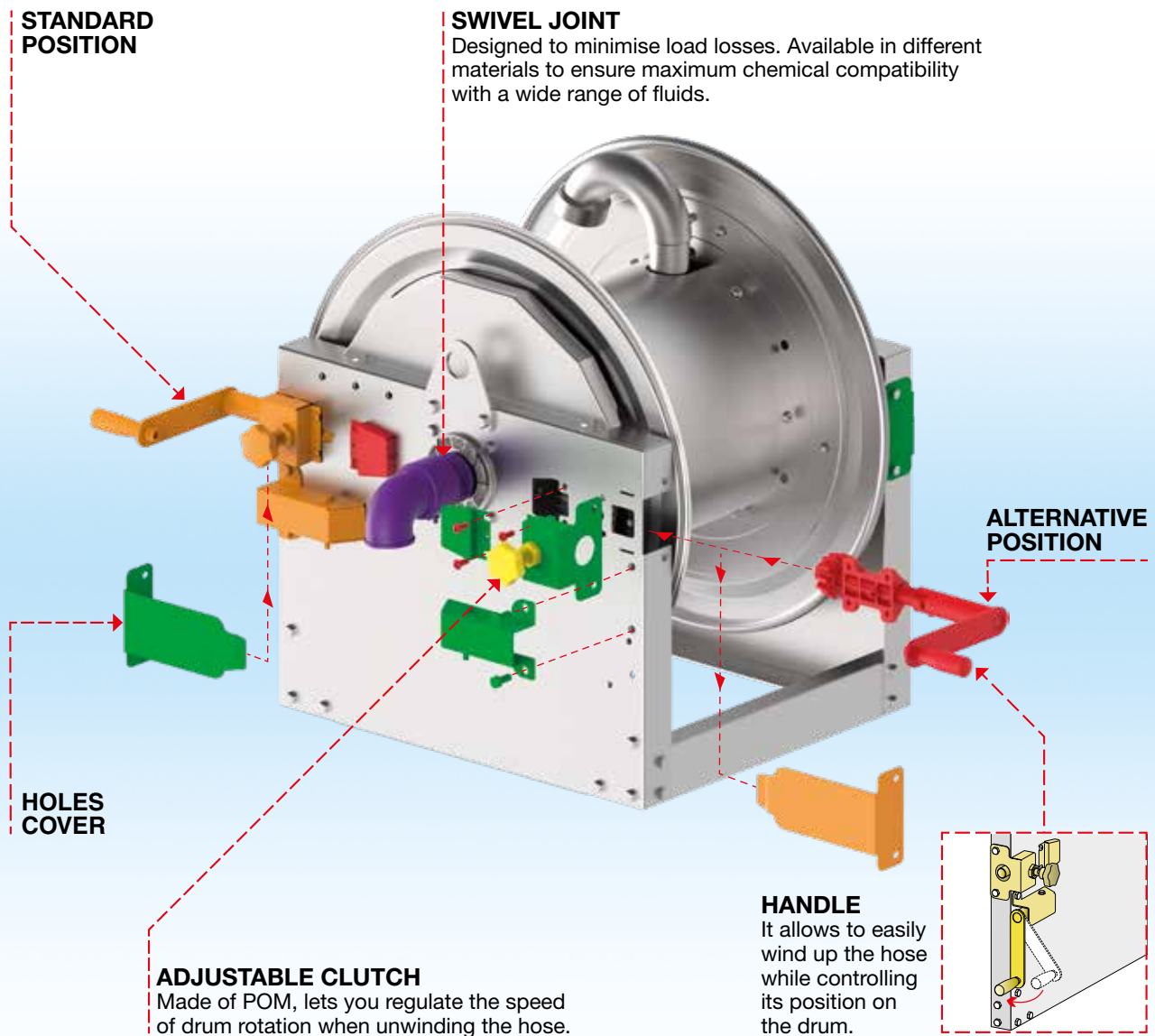
Technical data	
Type of fluid	hot water
Pressure	70 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)		Drum W	A	B	C	D	E	F	G	H	I	L	Packaging (mm) W x D x H	
		270	300	200	542	365	570	260	435	700	760	670		820 x 770 x 845
		410	440	340	542	365	712	398	575	700	760	670		875 x 845 x 820
		550	580	480	542	365	850	538	717	700	760	670		1030 x 830 x 830
		690	720	620	542	365	990	680	855	700	760	670		1170 x 830 x 845

(W: width - D: depth - H: height)

Technical characteristics



HANDLE MOVEMENT WITH CLUTCH

If required by use of the hose reel, the handle and clutch can be moved from the **standard position** to an **alternative position** with a simple operation indicated in the instruction manual.

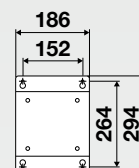


ACCESSORIES FOR **MANUAL** HOSE REELS



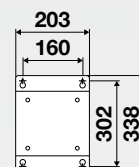
P/N 843002

P/N 843002
Fixed support in AISI 304 stainless steel
 for fixed hose reels in AISI 304 stainless steel s. 430.



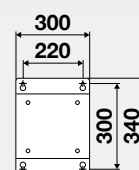
P/N 853002

P/N 853002
Fixed support in AISI 304 stainless steel
 for fixed hose reels in AISI 304 stainless steel s. 530.



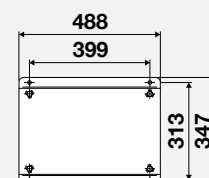
P/N 854002

P/N 854002
Fixed support in AISI 304 stainless steel
 for fixed hose reels in AISI 304 stainless steel s. 540.



P/N 856002

P/N 856002
Fixed support in AISI 304 stainless steel
 for fixed hose reels in AISI 304 stainless steel s. 560.



ARMS AND HOSE GUIDE FOR MANUAL HOSE REEL		
	AISI 304 stainless steel	AISI 316 stainless steel
s. 430	P/N 743401	P/N 743501
s. 530	P/N 753401	P/N 753501
s. 540	P/N 754401	P/N 754501
s. 560	P/N 756401	P/N 756501



FOLD-IN HANDLE FOR MANUAL HOSE REEL		
	AISI 304 stainless steel	AISI 316 stainless steel
s. 430	P/N 743404	P/N 743504
s. 530 s. 540 s. 560	P/N 753404	P/N 753504



P/N 74301
Rotation lock in AISI 304 stainless steel - for hose reels in painted steel and AISI 304 stainless steel series 430 - 430 ABS - 530 - 540 - 560.

P/N 74302
Rotation lock in AISI 316 stainless steel - for hose reels in painted steel and AISI 316 stainless steel series 430 - 430 ABS - 530 - 540 - 560.



P/N 88650
Protective rack side cover in ABS
 for hose reel series 430.

P/N 88651
Protective rack side cover in ABS
 for hose reel series 530 - 540 - 560.



ACCESSORIES FOR **MANUAL** HOSE REELS SERIES 700



High manual operation hose guide

P/N 79/22775B for width 270 mm

P/N 79/24175B for width 410 mm

P/N 79/25575B for width 550 mm

P/N 79/26975B for width 690 mm

By operating the special handle, the operator moves the hose to the right or left, ensuring correct rewinding.

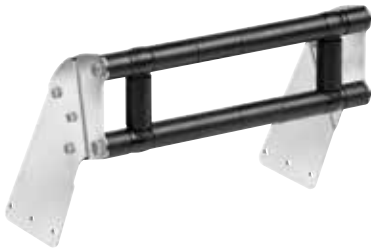
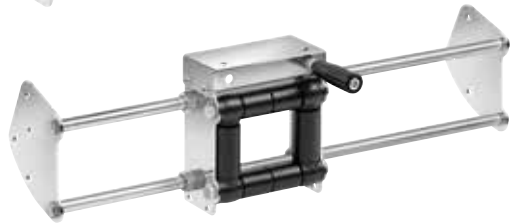
Low manual operation hose guide

P/N 79/22775 for width 270 mm

P/N 79/24175 for width 410 mm

P/N 79/25575 for width 550 mm

P/N 79/26975 for width 690 mm



Standard closed hose guide, high

P/N 79/12775B for width 270 mm

P/N 79/14175B for width 410 mm

P/N 79/15575B for width 550 mm

P/N 79/16975B for width 690 mm

Hose guide with rollers that allow the hose to slide easily during unwinding and rewinding operations.



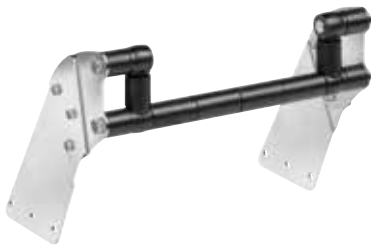
Standard closed hose guide, low

P/N 79/12775 for width 270 mm

P/N 79/14175 for width 410 mm

P/N 79/15575 for width 550 mm

P/N 79/16975 for width 690 mm



Standard open hose guide, high

P/N 79/32775B for width 270 mm

P/N 79/34175B for width 410 mm

P/N 79/35575B for width 550 mm

P/N 79/36975B for width 690 mm

This type of hose guide allows for installation of both versions (high and low) on the same hose reel, thus allowing hose unwinding in two opposing directions.



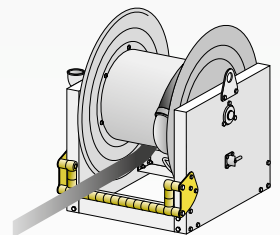
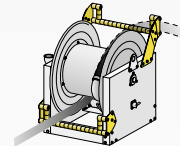
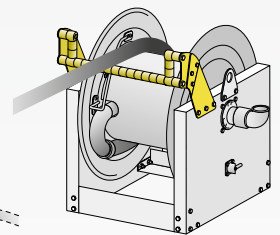
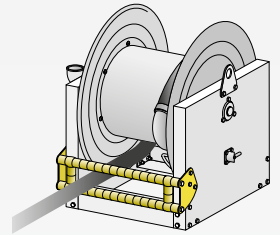
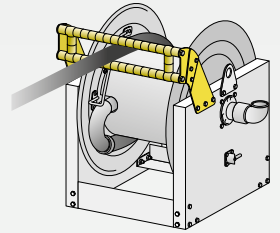
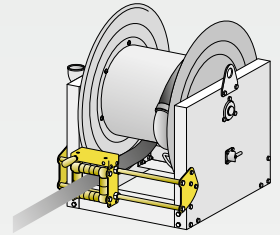
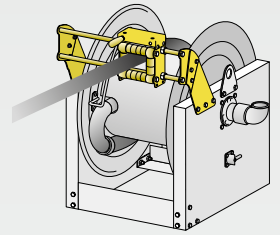
Standard open hose guide, low

P/N 79/32775 for width 270 mm

P/N 79/34175 for width 410 mm

P/N 79/35575 for width 550 mm

P/N 79/36975 for width 690 mm



P/N 77/3F

Free fall clutch in AISI 316 stainless steel permits controlled unwinding of the hose and switches to neutral during rewinding phase.

P/N 77/4F

Free fall clutch in AISI 304 stainless steel permits controlled unwinding of the hose and switches to neutral during rewinding phase.



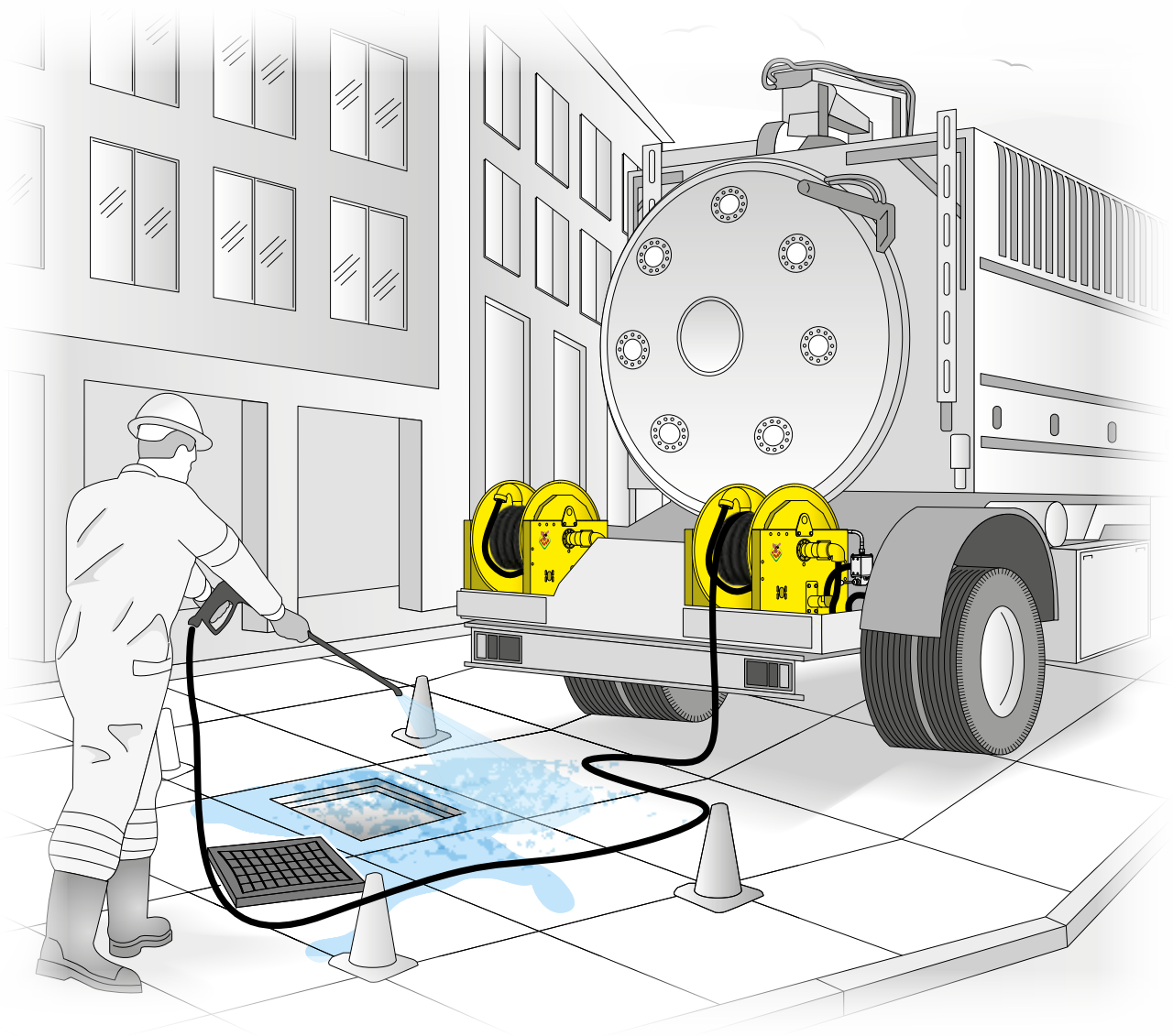
**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

MOTORIZED HOSE REELS SERIES 700

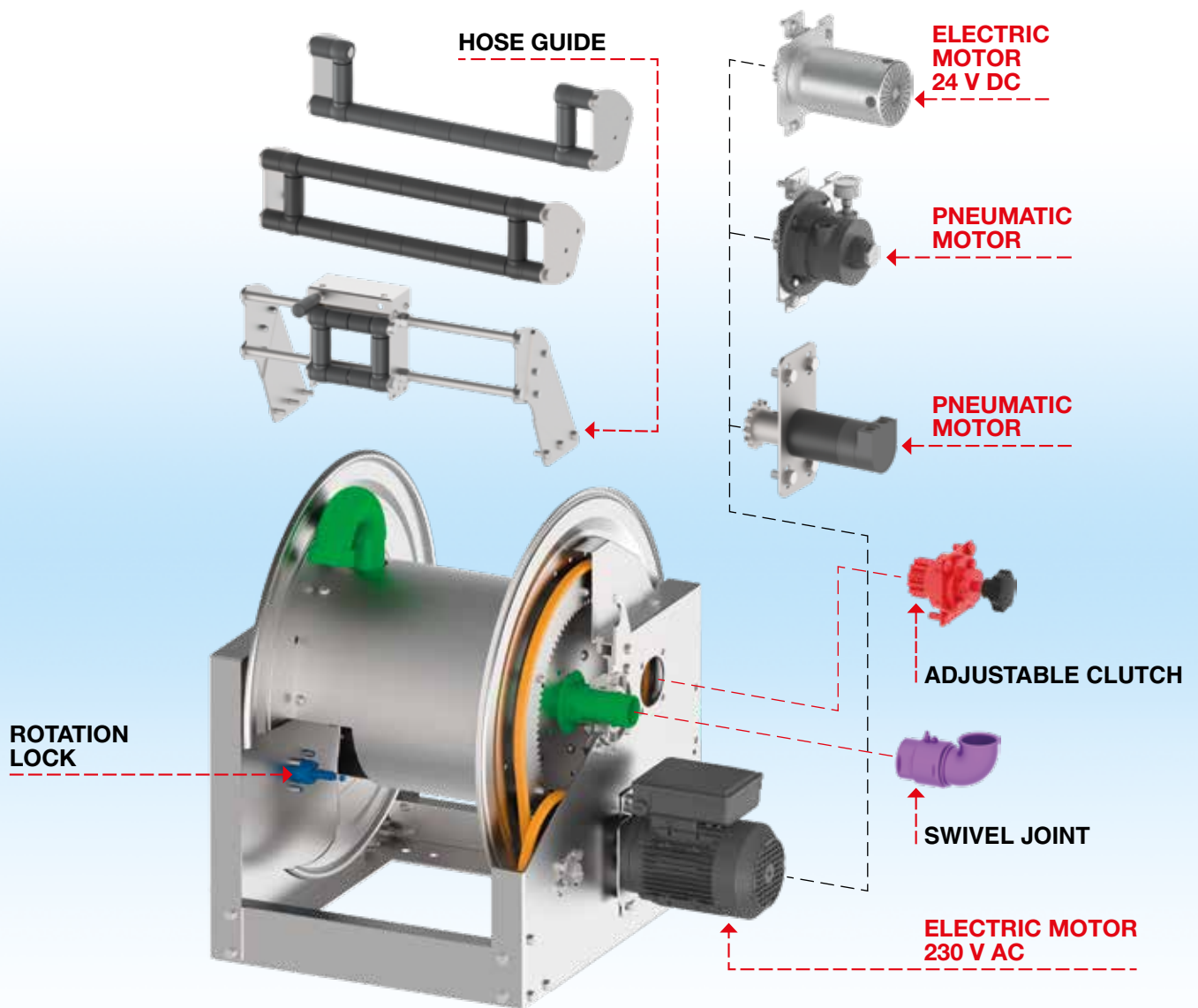
Made of **AISI 304** or
AISI 316 stainless steel







Technical characteristics



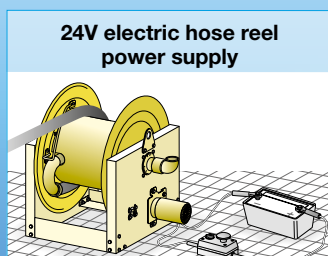
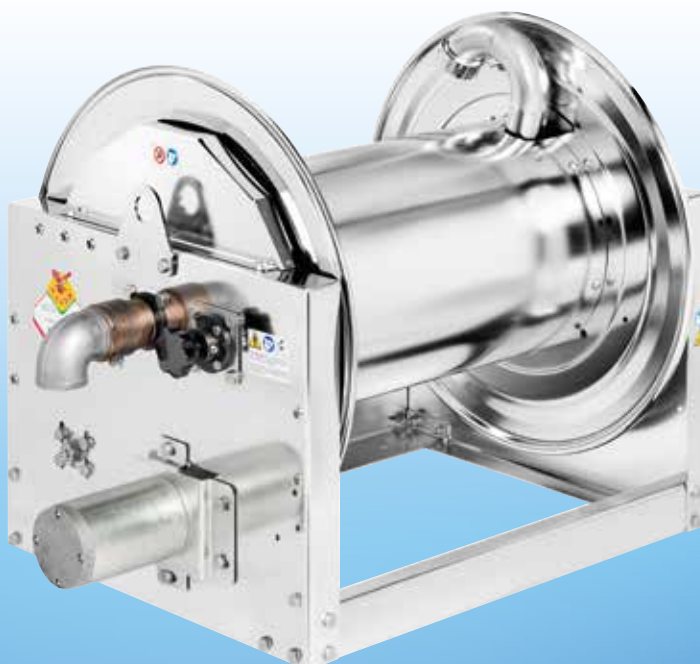
The motors are bidirectional: this allows to rewind and to wind the hose in both directions.



24 V DC MOTORIZED HOSE REELS SERIES 700

made of **AISI 304** or **AISI 316** stainless steel

The hose reels with 24V electric motor are a handy and easy answer to the problem of hose management. Hose unwinding occurs manually whereas rewinding is done with the electric motor connected to a battery or an electrical transformer.

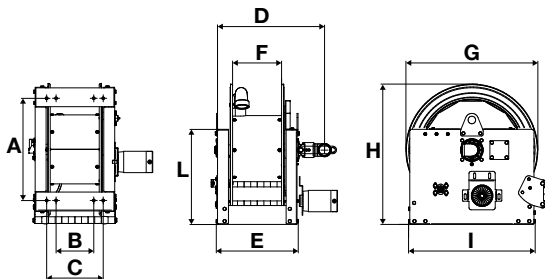


	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight
				inlet	outlet	
series 700 70 bar	7724301.200	7725301.200	270	G 2" (f)	G 2" (f)	105,0 kg
	7744301.200	7745301.200	410	G 2" (f)	G 2" (f)	111,0 kg
	7754301.200	7755301.200	550	G 2" (f)	G 2" (f)	116,0 kg
	7774301.200	7775301.200	690	G 2" (f)	G 2" (f)	121,7 kg

Hose reel capacity s. 700	inner hose ø	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	max. length 270	160 m	110 m	65 m	30 m	20 m	15 m	10 m
	max. length 410	290 m	180 m	120 m	60 m	35 m	30 m	20 m
	max. length 550	420 m	280 m	180 m	100 m	60 m	50 m	30 m
	max. length 690	550 m	350 m	244 m	134 m	84 m	75 m	43 m

Technical data	
Type of fluid	hot water
Pressure	70 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)		Drum W	A	B	C	D	E	F	G	H	I	L	Packaging (mm) W x D x H	
		270	300	200	542	365	570	260	435	700	760	670		820 x 770 x 845
		410	440	340	542	365	712	398	575	700	760	670		875 x 845 x 820
		550	580	480	542	365	850	538	717	700	760	670		1030 x 830 x 830
		690	720	620	542	365	990	680	855	700	760	670		1170 x 830 x 845

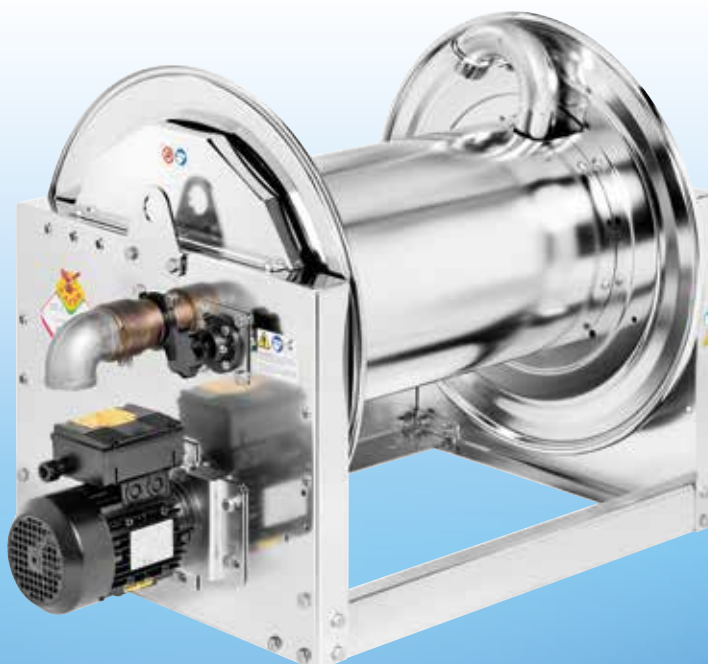
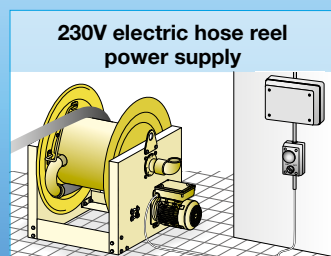
(W: width - D: depth - H: height)



230 V AC - 50 Hz MOTORIZED HOSE REELS SERIES 700

made of **AISI 304** or **AISI 316** stainless steel

The hose reels with 230V electric motor are a handy and easy answer to the problem of hose management. Hose unwinding occurs manually whereas rewinding is done with the electric motor appropriately connected to the 230 V power supply.

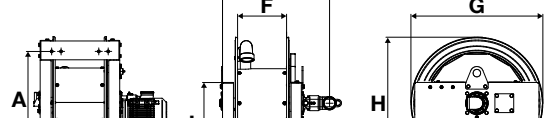


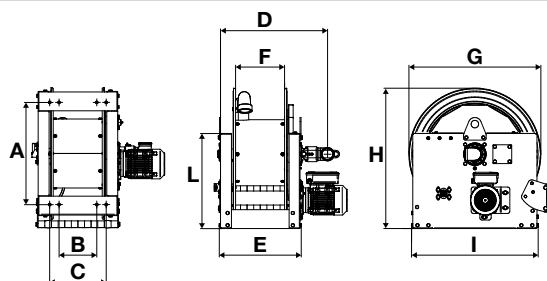
ELECTRIC 230 V AC - 50 Hz						
	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight
				inlet	outlet	
series 700 70 bar	7724601.200	7725601.200	270	G 2" (f)	G 2" (f)	110,0 kg
	7744601.200	7745601.200	410	G 2" (f)	G 2" (f)	116,0 kg
	7754601.200	7755601.200	550	G 2" (f)	G 2" (f)	120,8 kg
	7774601.200	7775601.200	690	G 2" (f)	G 2" (f)	126,5 kg
ELECTRIC 230 V AC - 50 Hz with standard clutch						
series 700 70 bar ATEX	7724702.200	7725702.200	270	G 2" (f)	G 2" (f)	112,8 kg
	7744702.200	7745702.200	410	G 2" (f)	G 2" (f)	118,8 kg
	7754702.200	7755702.200	550	G 2" (f)	G 2" (f)	123,6 kg
	7774702.200	7775702.200	690	G 2" (f)	G 2" (f)	129,3 kg

Hose reel capacity s. 700	inner hose Ø	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	max. length 270	160 m	110 m	65 m	30 m	20 m	15 m	10 m
	max. length 410	290 m	180 m	120 m	60 m	35 m	30 m	20 m
	max. length 550	420 m	280 m	180 m	100 m	60 m	50 m	30 m
	max. length 690	550 m	350 m	244 m	134 m	84 m	75 m	43 m

Technical data	
Type of fluid	hot water
Pressure	70 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)											Drum W		Packaging (mm) W x D x H										
											A	B	C	D	E	F	G	H	I	L			
											270	300	200	542	365	570	260	435	700	760	670		820 x 770 x 845
											410	440	340	542	365	712	398	575	700	760	670		875 x 845 x 820
											550	580	480	542	365	850	538	717	700	760	670		1030 x 830 x 830
											690	720	620	542	365	990	680	855	700	760	670		1170 x 830 x 845



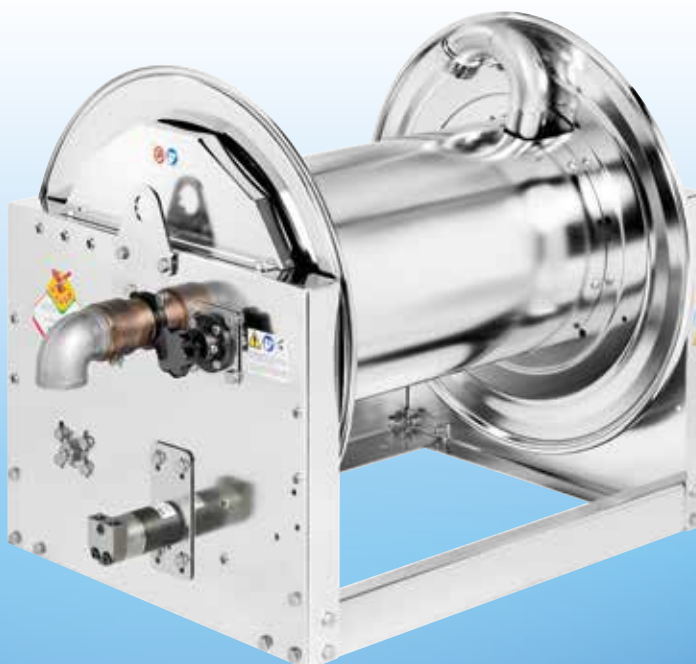
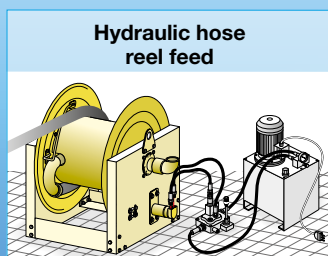
(W: width - D: depth - H: height)



HYDRAULIC MOTORIZED HOSE REELS SERIES 700

made of **AISI 304** or **AISI 316** stainless steel

The hose reels with hydraulic motor are a handy and easy answer to the problem of hose management. Hose unwinding occurs manually whereas rewinding is done with the hydraulic motor connected to a special control unit, as indicated in the figure below.

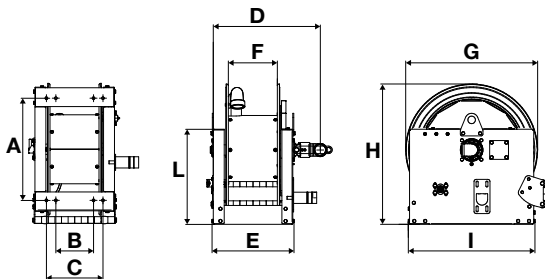


	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight
				inlet	outlet	
series 700 70 bar	7724801.200	7725801.200	270	G 2" (f)	G 2" (f)	104,2 kg
	7744801.200	7745801.200	410	G 2" (f)	G 2" (f)	110,0 kg
	7754801.200	7755801.200	550	G 2" (f)	G 2" (f)	115,0 kg
	7774801.200	7775801.200	690	G 2" (f)	G 2" (f)	120,7 kg

Hose reel capacity s. 700	inner hose ø	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
	max. length 270	160 m	110 m	65 m	30 m	20 m	15 m	10 m
	max. length 410	290 m	180 m	120 m	60 m	35 m	30 m	20 m
	max. length 550	420 m	280 m	180 m	100 m	60 m	50 m	30 m
	max. length 690	550 m	350 m	244 m	134 m	84 m	75 m	43 m

Technical data	
Type of fluid	hot water
Pressure	70 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)		Drum W	A	B	C	D	E	F	G	H	I	L	Packaging (mm) W x D x H	
		270	300	200	542	365	570	260	435	700	760	670		820 x 770 x 845
		410	440	340	542	365	712	398	575	700	760	670		875 x 845 x 820
		550	580	480	542	365	850	538	717	700	760	670		1030 x 830 x 830
		690	720	620	542	365	990	680	855	700	760	670		1170 x 830 x 845

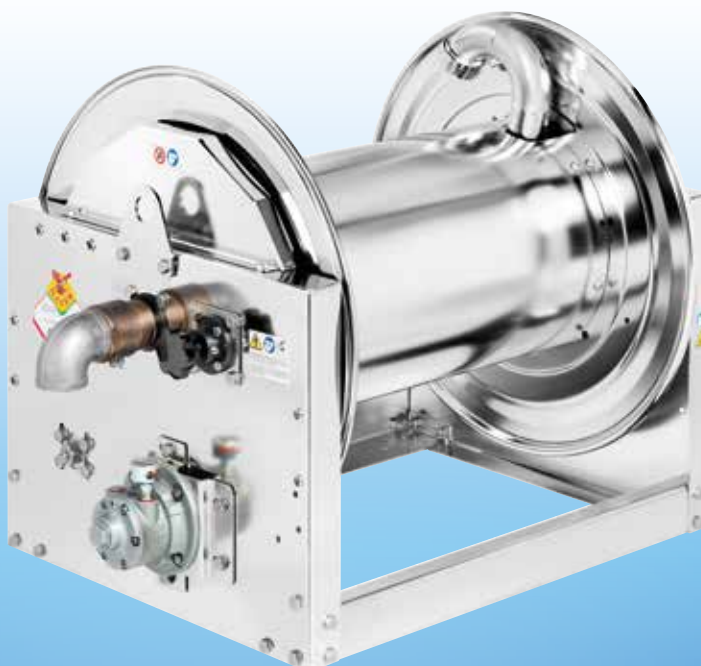
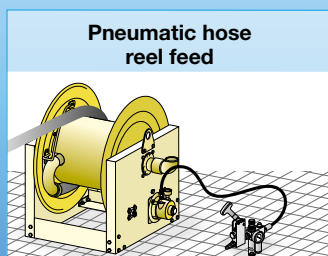
(W: width - D: depth - H: height)



PNEUMATIC MOTORIZED HOSE REELS SERIES 700

made of **AISI 304** or **AISI 316** stainless steel

The hose reels with **pneumatic motor** are a handy and easy answer to the problem of hose management. Hose unwinding occurs manually whereas rewinding is done with the pneumatic motor connected to the compressed air supply, as indicated in the figure below.



	P/N AISI 304 s. steel	P/N AISI 316 s. steel	Drum external width (mm)	Connection		Weight
				inlet	outlet	
series 700 70 bar ATEX	7724901.200	7725901.200	270	G 2" (f)	G 2" (f)	104,2 kg
	7744901.200	7745901.200	410	G 2" (f)	G 2" (f)	110,0 kg
	7754901.200	7755901.200	550	G 2" (f)	G 2" (f)	115,0 kg
	7774901.200	7775901.200	690	G 2" (f)	G 2" (f)	120,7 kg

In accordance with directive

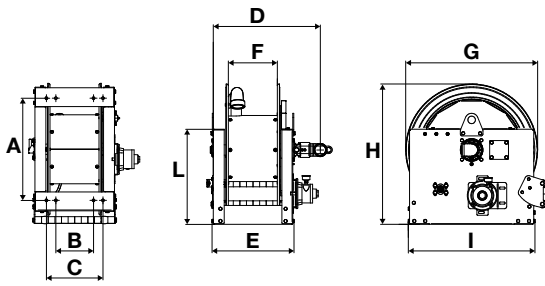


Hose reel capacity
s. 700

inner hose ø	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
max. length 270	160 m	110 m	65 m	30 m	20 m	15 m	10 m
max. length 410	290 m	180 m	120 m	60 m	35 m	30 m	20 m
max. length 550	420 m	280 m	180 m	100 m	60 m	50 m	30 m
max. length 690	550 m	350 m	244 m	134 m	84 m	75 m	43 m

Technical data	
Type of fluid	hot water
Pressure	70 bar
Working temperature	≤ 130 °C

Seals	Swivel joint	Central pin
Viton®	AISI 304 - 316 s. steel	AISI 304 - 316 s. steel
		

Overall dimensions (mm)		Drum W	A	B	C	D	E	F	G	H	I	L	Packaging (mm) W x D x H	
		270	300	200	542	365	570	260	435	700	760	670		820 x 770 x 845
		410	440	340	542	365	712	398	575	700	760	670		875 x 845 x 820
		550	580	480	542	365	850	538	717	700	760	670		1030 x 830 x 830
		690	720	620	542	365	990	680	855	700	760	670		1170 x 830 x 845

(W: width - D: depth - H: height)



ACCESSORIES FOR **MOTORIZED** HOSE REELS SERIES 700



High manual operation hose guide

P/N 79/22775B for width 270 mm

P/N 79/24175B for width 410 mm

P/N 79/25575B for width 550 mm

P/N 79/26975B for width 690 mm

By operating the special handle, the operator moves the hose to the right or left, ensuring correct rewinding.

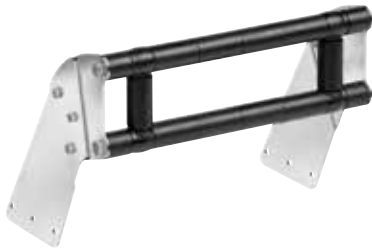
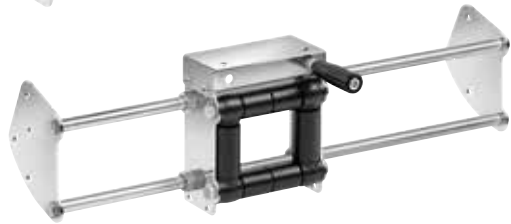
Low manual operation hose guide

P/N 79/22775 for width 270 mm

P/N 79/24175 for width 410 mm

P/N 79/25575 for width 550 mm

P/N 79/26975 for width 690 mm



Standard closed hose guide, high

P/N 79/12775B for width 270 mm

P/N 79/14175B for width 410 mm

P/N 79/15575B for width 550 mm

P/N 79/16975B for width 690 mm

Hose guide with rollers that allow the hose to slide easily during unwinding and rewinding operations.



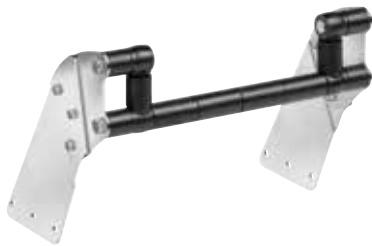
Standard closed hose guide, low

P/N 79/12775 for width 270 mm

P/N 79/14175 for width 410 mm

P/N 79/15575 for width 550 mm

P/N 79/16975 for width 690 mm



Standard open hose guide, high

P/N 79/32775B for width 270 mm

P/N 79/34175B for width 410 mm

P/N 79/35575B for width 550 mm

P/N 79/36975B for width 690 mm

This type of hose guide allows for installation of both versions (high and low) on the same hose reel, thus allowing hose unwinding in two opposing directions.



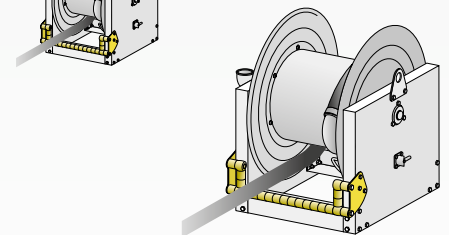
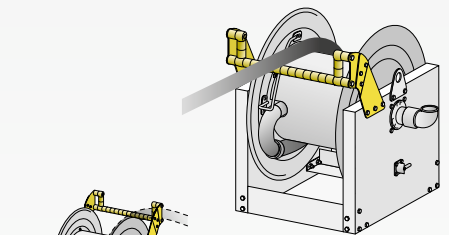
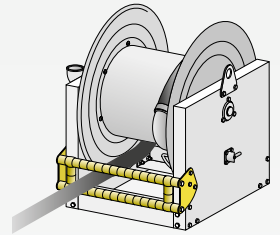
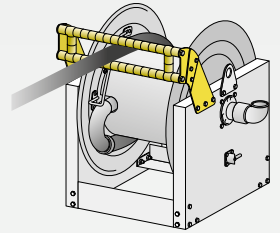
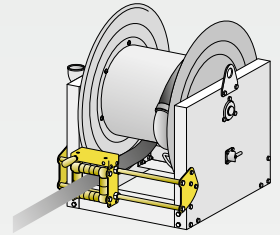
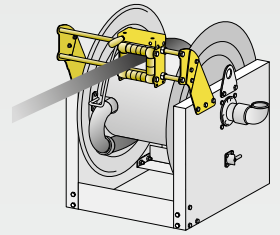
Standard open hose guide, low

P/N 79/32775 for width 270 mm

P/N 79/34175 for width 410 mm

P/N 79/35575 for width 550 mm

P/N 79/36975 for width 690 mm



P/N 77/3F

Free fall clutch in AISI 316 stainless steel permits controlled unwinding of the hose and switches to neutral during rewinding phase.

P/N 77/4F

Free fall clutch in AISI 304 stainless steel permits controlled unwinding of the hose and switches to neutral during rewinding phase.

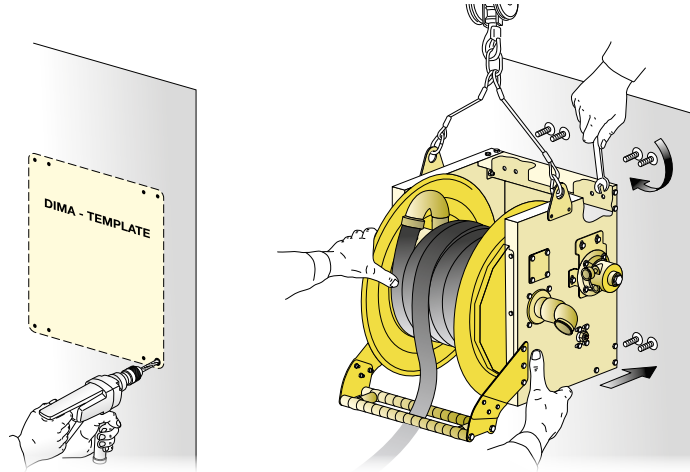
ADVICES ON HOW TO INSTALL Wall installation and hose mounting

Wall mounting

Drill the necessary holes after choosing the ideal position, checking the solidity and thickness of the wall, marking the holes for the plugs (see template supplied with the hose reel) and ensuring that they will not damage any plumbing pipes or electrical cables.

Fix the plugs in the wall and insert the hose reel in the special seats.

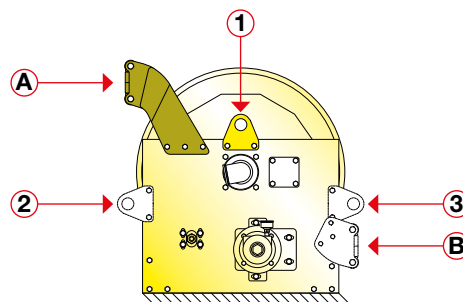
Tighten the 4/8 fixing nuts.



1 Standard position of lifting hooks.

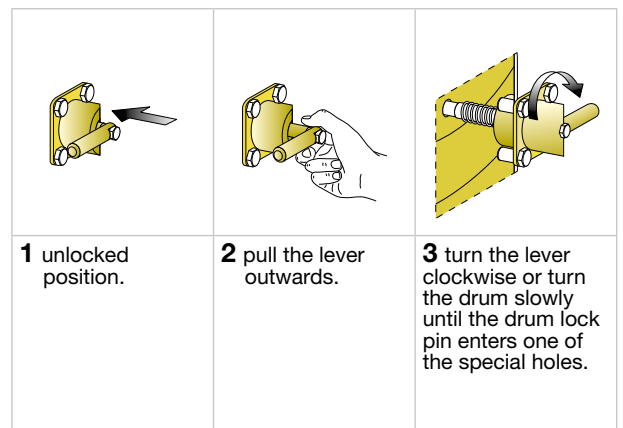
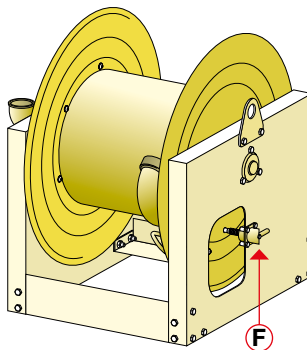
2 - 3 Alternative positions of lifting hooks.

A - B Positions of hose guides.



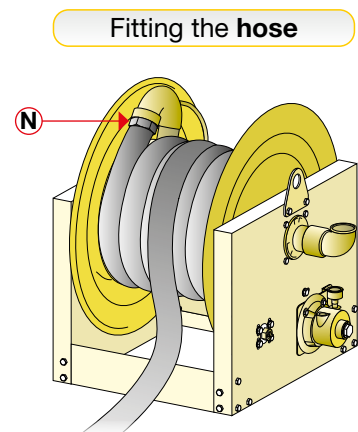
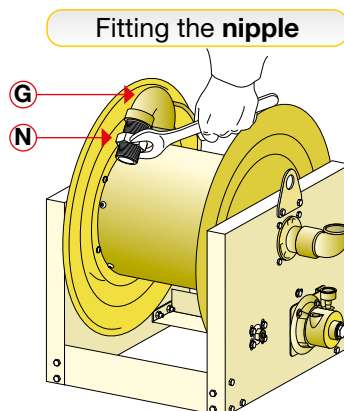
Fitting the hose

Before fitting, make sure the hose reel drum is locked by the special brake **F** (see procedures 1 - 2 - 3).



Screw a nipple **N** on the outlet elbow **G**, with sealant.

Fit the **hose** on the nipple **N**.





DIAPHRAGM PUMPS IN POLYPROPYLENE

with **ALUMINUM** motor

1/2" Flow rate 60 l/min

Diaphragm pumps R. 1:1 for transferring fluids, made of molding injected polypropylene with motor made in aluminum; they ensure lasting and reliable operation even in extreme conditions and with aggressive fluids.

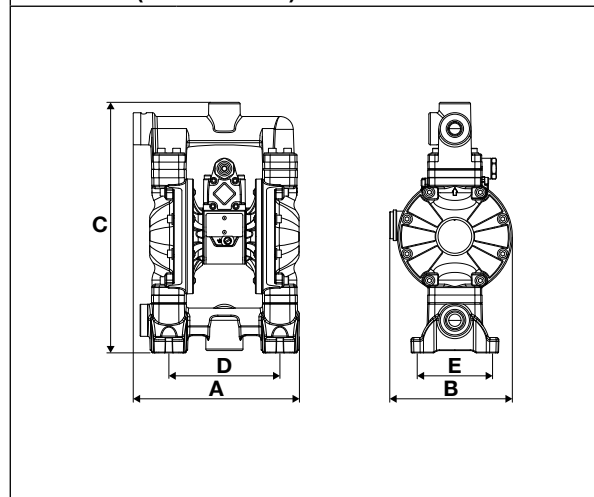
In accordance with directive



Note: The max flow rate shown in the below graphics has been obtained by laboratory test.

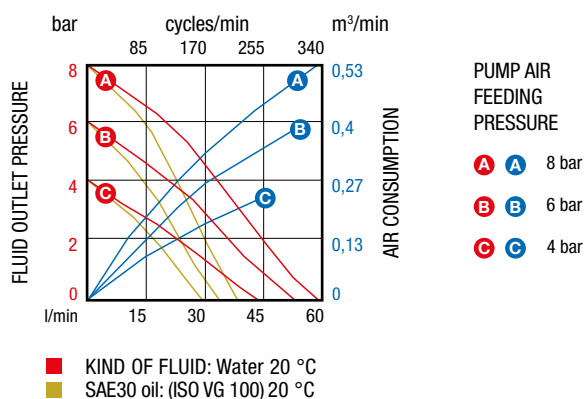


Model			APPB-12 with multi-ported inlet/outlet	APPB-12 dual inlet/multi-ported outlet
Membranes	Balls	Seats	P/N	P/N
EPDM	Acetal	Polypropylene and AISI 316	2B3/16117EA5	2B8/16117EA5
Hytrel®	Hytrel®	Polypropylene and AISI 316	2B3/16117HH5	2B8/16117HH5
NBR	Hytrel®	Polypropylene and AISI 316	2B3/16117NH5	2B8/16117NH5
Santoprene™	Santoprene™	Polypropylene and AISI 316	2B3/16117SS5	2B8/16117SS5
PTFE+Hytrel®*	PTFE	Polypropylene and AISI 316	2B3/16117TT5	2B8/16117TT5
Max pressure			8 bar	8 bar
Max suction lift			dry column 4,5 m - wet column 7,5 m	dry column 4,5 m - wet column 7,5 m
Max working temperature**			65 °C	65 °C
Noise level			75 dB	75 dB
Max air consumption			0,50 m³/min	0,50 m³/min
Air working pressure			2 - 6 bar	2 - 6 bar
Air inlet connection			G 3/8" (f)	G 3/8" (f)
Fluid inlet connection			G 3/4" (f) x G 1" (f) for drum	dual inlet G 3/4" (f)
Fluid outlet connection			G 1/2" (f)	G 1/2" (f)
Packing 			No. 1 - 0,02 m³	No. 1 - 0,02 m³
Weight 			5,8 kg	5,7 kg
Dimensions (A - B - C - D - E)			22 x 16 x 32,7 x 14,5 x 10 cm	22 x 16 x 32,7 x 14,5 x 10 cm



* With PTFE membrane flow rate is 10% lower.

** The materials in contact with the fluid, and the fluid as well, can restrict the pump working temperature.



DIAPHRAGM PUMPS IN POLYPROPYLENE

with **ALUMINUM** motor

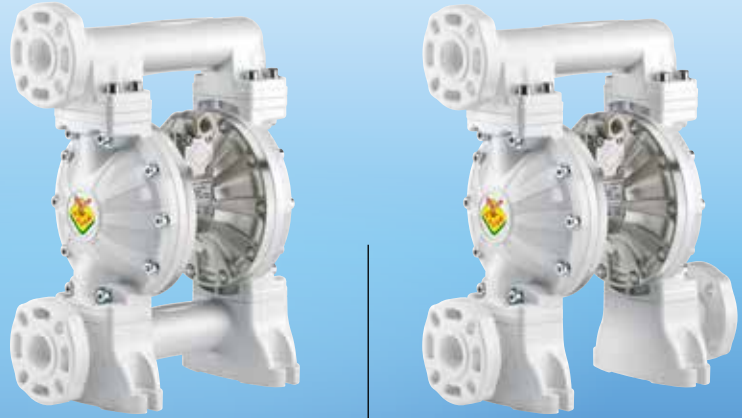
1" Flow rate 170 l/min

Diaphragm pumps R. 1:1 for transferring fluids, made of molding injected polypropylene with motor made in aluminum. These versions have got 1" flange to connect the pump to the plant. Use the new AISI 304 stainless steel flange available in the "accessories" section of the Catalogue No. 224-PM for the piping connection.

In accordance with directive



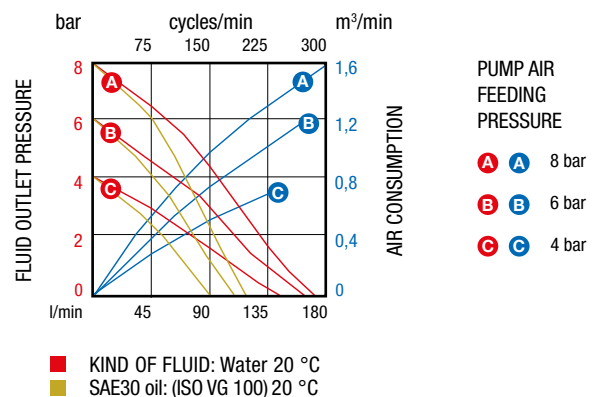
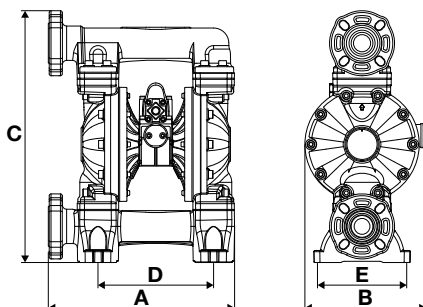
Note: The max flow rate shown in the below graphics has been obtained by laboratory test.



Model			APPB-1	APPB-1 dual inlet
Membranes	Balls	Seats	P/N	P/N
EPDM	Acetal	AISI 316 stainless steel	2B4/26117EAI	2B7/26117EAI
Hytrel®	Hytrel®	AISI 316 stainless steel	2B4/26117HHI	2B7/26117HHI
NBR	Hytrel®	AISI 316 stainless steel	2B4/26117NHI	2B7/26117NHI
Santoprene™	Santoprene™	AISI 316 stainless steel	2B4/26117SSI	2B7/26117SSI
PTFE+Hytrel®*	PTFE	AISI 316 stainless steel	2B4/26117TTI	2B7/26117TTI
Max pressure			8 bar	8 bar
Max suction lift			dry column 5 m - wet column 7,5 m	dry column 5 m - wet column 7,5 m
Max working temperature**			65 °C	65 °C
Noise level			75 dB	75 dB
Max air consumption			1,60 m³/min	1,60 m³/min
Air working pressure			2 - 6 bar	2 - 6 bar
Air inlet connection			G 3/8" (f)	G 3/8" (f)
Fluid inlet connection			ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread	dual inlet ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread
Fluid outlet connection			ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread	ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread
Packing 			No. 1 - 0,03 m³	No. 1 - 0,03 m³
Weight 			7 kg	12,1 kg
Dimensions (A - B - C - D - E)			30,5 x 20 x 42 x 19,1 x 13 cm	35,7 x 20 x 42 x 19,1 x 13 cm

* With PTFE membrane flow rate is 10% lower.

** The materials in contact with the fluid, and the fluid as well, can restrict the pump working temperature.





DIAPHRAGM PUMPS IN POLYPROPYLENE

with **POLYPROPYLENE** motor

1/2" Flow rate 65 l/min

Diaphragm pumps
R. 1:1 for fluids transfer,
produced entirely in
polypropylene, are
recommended for
applications with
industrial fluids, also
corrosive and in working
environments with
aggressive atmospheres.

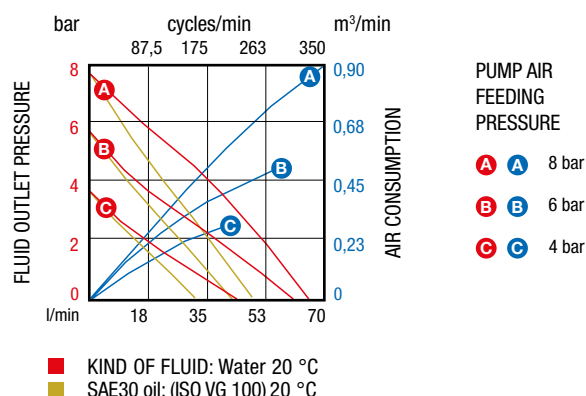
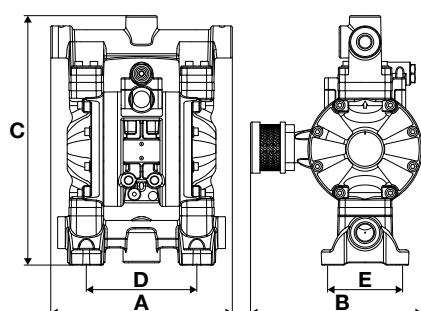
Note: The max flow rate shown
in the below graphics has been
obtained by laboratory test.



Model			PPB-12 with multi-ported inlet/outlet	PPB-12 dual inlet/multi-ported outlet
Membranes	Balls	Seats	P/N	P/N
EPDM	Acetal	Polypropylene and AISI 316	2A3/1677EA5	2A8/1677EA5
Hytrel®	Hytrel®	Polypropylene and AISI 316	2A3/1677HH5	2A8/1677HH5
NBR	Hytrel®	Polypropylene and AISI 316	2A3/1677NH5	2A8/1677NH5
Santoprene™	Santoprene™	Polypropylene and AISI 316	2A3/1677SS5	2A8/1677SS5
PTFE+Hytrel®*	PTFE	Polypropylene and AISI 316	2A3/1677TT5	2A8/1677TT5
Max pressure			8 bar	8 bar
Max suction lift			dry column 4,5 m - wet column 7,5 m	dry column 4,5 m - wet column 7,5 m
Max working temperature**			65 °C	65 °C
Noise level			75 dB	75 dB
Max air consumption			0,50 m³/min	0,50 m³/min
Air working pressure			2 - 6 bar	2 - 6 bar
Air inlet connection			G 3/8" (f)	G 3/8" (f)
Fluid inlet connection			G 3/4" (f) x G 1" (f) for drum	dual inlet G 3/4" (f)
Fluid outlet connection			G 1/2" (f)	G 1/2" (f)
Packing 			No. 1 - 0,02 m³	No. 1 - 0,02 m³
Weight 			5,8 kg	5,7 kg
Dimensions (A - B - C - D - E)			20,8 x 22 x 32,6 x 14,5 x 10 cm	22 x 22 x 32,6 x 14,5 x 10 cm

* With PTFE membrane flow rate is 10% lower.

** The materials in contact with the fluid, and the fluid as well, can restrict the pump working temperature.



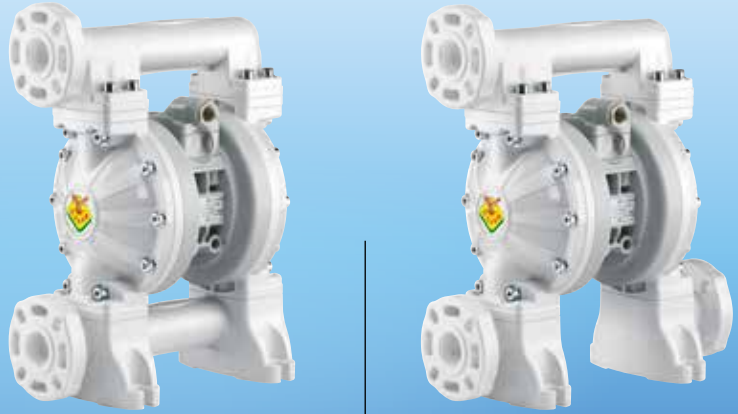
DIAPHRAGM PUMPS IN POLYPROPYLENE

with **POLYPROPYLENE** motor

1" Flow rate 145 l/min

The diaphragm pumps, R. 1:1 for fluid transfer, produced entirely in polypropylene, maintain their performance on applications with industrial fluids, also aggressive and in working environments with corrosive atmospheres, offering a very high flow rate.

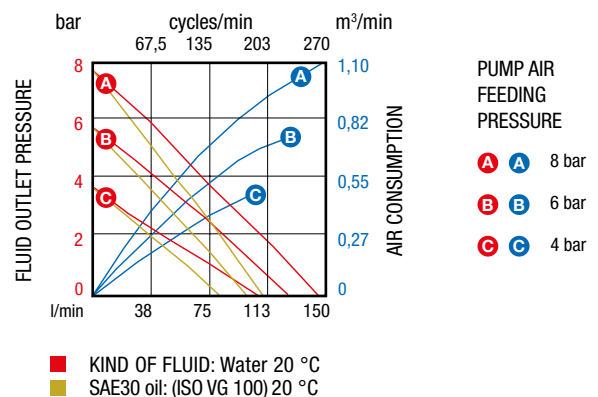
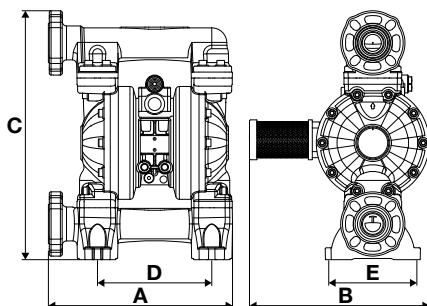
Note: The max flow rate shown in the below graphics has been obtained by laboratory test.



Model			PPB-1	PPB-1 dual inlet
Membranes	Balls	Seats	P/N	P/N
EPDM	Acetalica	AISI 316 stainless steel	2A4/2677EAI	2A7/2677EAI
Hytrel®	Hytrel®	AISI 316 stainless steel	2A4/2677HHI	2A7/2677HHI
NBR	Hytrel®	AISI 316 stainless steel	2A4/2677NHI	2A7/2677NHI
Santoprene™	Santoprene™	AISI 316 stainless steel	2A4/2677SSI	2A7/2677SSI
PTFE+Hytrel®*	PTFE	AISI 316 stainless steel	2A4/2677TTI	2A7/2677TTI
Max pressure			8 bar	8 bar
Max suction lift			dry column 5 m - wet column 7,5 m	dry column 5 m - wet column 7,5 m
Max working temperature**			65 °C	65 °C
Noise level			78 dB	78 dB
Max air consumption			1,1 m³/min	1,1 m³/min
Air working pressure			2 - 6 bar	2 - 6 bar
Air inlet connection			G 3/8" (f)	G 3/8" (f)
Fluid inlet connection			ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread	dual inlet ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread
Fluid outlet connection			ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread	ANSI 150 - DIN PN 10 - JIS 10K 1" (25 mm) proneness to G 1.1/4" (f) thread
Packing 			No. 1 - 0,03 m³	No. 1 - 0,03 m³
Weight 			9,6 kg	9,6 kg
Dimensions (A - B - C - D - E)			30,5 x 30 x 42 x 19,1 x 13 cm	35,7 x 30 x 42 x 19,1 x 13 cm

* With PTFE membrane flow rate is 10% lower.

** The materials in contact with the fluid, and the fluid as well, can restrict the pump working temperature.





AISI 316 STAINLESS STEEL DIAPHRAGM PUMPS

with **ALUMINUM** or **POLYPROPYLENE** motor

The **R 1:1** diaphragm pumps made of **AISI 316 stainless steel** with aluminum or polypropylene motor ensure reliability and efficiency.

1" Flow rate 150 l/min

In accordance with directive



1" Flow rate 130 l/min

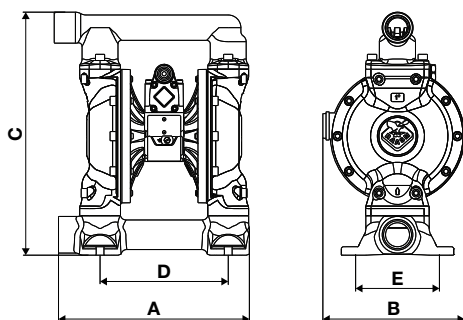


Note: The max flow rate shown in the below graphics has been obtained by laboratory test.

Model			AIB-1	PIB-1
Membranes	Balls	Seats	P/N	P/N
PTFE+Hytre [®]	PTFE	AISI 316 stainless steel	4C1/26415TTI	2A1/26775TTI
Max pressure			8 bar	8 bar
Max suction lift			dry column 5 m - wet column 7,5 m	dry column 5 m - wet column 7,5 m
Max working temperature**			100 °C	65 °C
Noise level			75 dB	78 dB
Max air consumption			1,4 m ³ /min	1,1 m ³ /min
Air working pressure			3 - 8 bar	3 - 8 bar
Air inlet connection			G 3/8" (f)	G 3/8" (f)
Fluid inlet connection			G 1.1/4" (f)	G 1.1/4" (f)
Fluid outlet connection			G 1" (f)	G 1" (f)
Packing 			N° 1 - 0,03 m ³	N° 1 - 0,03 m ³
Weight 			25 kg	24 kg
Dimensions (A - B - C - D - E)			27,1 x 20,1 x 34,5 x 18,2 x 13 cm	27,1 x 20,1 x 34,5 x 18,2 x 13 cm

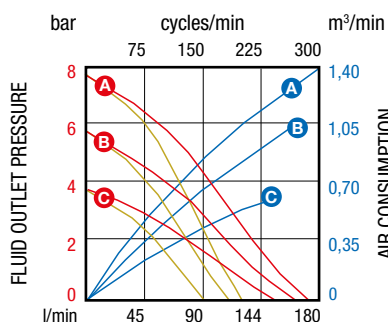
* With PTFE membrane flow rate is 10% lower.

** The materials in contact with the fluid, and the fluid as well, can restrict the pump working temperature.

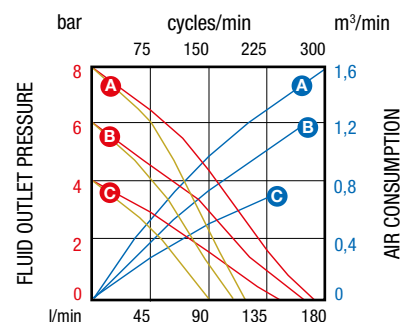


PUMP AIR FEEDING PRESSURE

A A 8 bar **B B** 6 bar **C C** 4 bar



■ KIND OF FLUID: Water 20 °C
■ SAE30 oil: (ISO VG 100) 20 °C



■ KIND OF FLUID: Water 20 °C
■ SAE30 oil: (ISO VG 100) 20 °C

ACCESSORIES FOR DIAPHRAGM PUMPS

Request the Catalogue DIAPHRAGM PUMP No. 224-PM.



P/N 32/89

Increased muffler G 1/2" (m) suitable for 1/2" and 1" pumps with aluminum motor.



P/N 32/90

Muffler G 3/4" (m) in polypropylene for 1/2" and 1" pumps with polypropylene motor.



P/N 32/95

1" AISI 304 stainless steel flange suitable to connect the pump with the plant. Thread G 1" (f). Accessory only for flanged diaphragm pumps.



P/N 32/96

1" polypropylene flange suitable to connect the pump with the plant. Thread G 1" (f). Accessory only for flanged diaphragm pumps.



P/N 33434

Bung adaptor for pump with $\varnothing$ 34 mm suction tube.



P/N 33569

Stainless steel suction tube $\varnothing$ 34 mm
- length 1240 mm
- straight connection without joint.

P/N 33579

Stainless steel suction tube $\varnothing$ 34 mm
- length 940 mm.

P/N 33580

Stainless steel suction tube $\varnothing$ 34 mm
- length 1240 mm.

P/N 33596

Stainless steel suction tube $\varnothing$ 34 mm
- length 1460 mm.



P/N 33577

AISI 304 stainless steel rigid suction tube kit $\varnothing$ 34 mm
- length 940 mm.

P/N 33578

AISI 304 stainless steel rigid suction tube kit $\varnothing$ 34 mm
- length 1260 mm.

P/N 33597

AISI 304 stainless steel rigid suction tube kit $\varnothing$ 34 mm
- length 1240 mm.



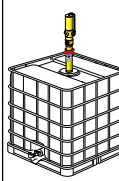
PNEUMATIC PISTON PUMPS

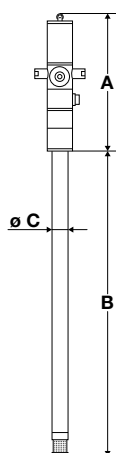
Series 600

Ratio **1:1** Flow rate **30 l/min**

Stainless steel AISI 304 air-operated pumps for short-medium distance transfer. Ideal for transferring low-medium viscosity fluids such as antifreeze liquid, windshield washing liquid and chemical products. Wall models available, as well as for drums from 50 to 220 kg and for tanks.



P/N	33300	33301	33302	33303*	33360	33363	33396
Seals	Viton®				Viton®	Viton®	
Length suction tube	960 mm	1260 mm	1460 mm	-	-	1260 mm	940 mm
Air inlet connection	G 1/4" (f)	G 1/4" (f)	G 1/4" (f)	G 1/4" (f)	G 1/4" (f)	G 1/4" (f)	G 1/4" (f)
Fluid outlet connection	G 1/2" (f)	G 1/2" (f)	G 1/2" (f)	G 1/2" (f)	G 1/2" (f)	G 1/2" (f)	G 1/2" (f)
Air working pressure	6 - 8 bar	6 - 8 bar	6 - 8 bar	6 - 8 bar	6 - 8 bar	6 - 8 bar	6 - 8 bar
Bung adaptor	standard	standard	standard	-	-	standard	standard
Suitable for drums or tanks							
	wall mounted - modular			wall mounted - modular	wall mounted - modular	for tanks	suitable for drums 180-220 kg
Packing 	N° 1-0,03 m³	N° 1-0,04 m³	N° 1-0,05 m³	N° 1-0,03 m³	N° 1 - 0,01 m³	N° 1 - 0,02 m³	
Weight 	11,4 kg			9,0 kg	5,3 kg	7,3 kg	
Dimensions (A - B - ø C)	41 - 94 - ø 3,4 cm			41 (A) cm	41 (A) cm	41 - 94 - ø 3,4 cm	

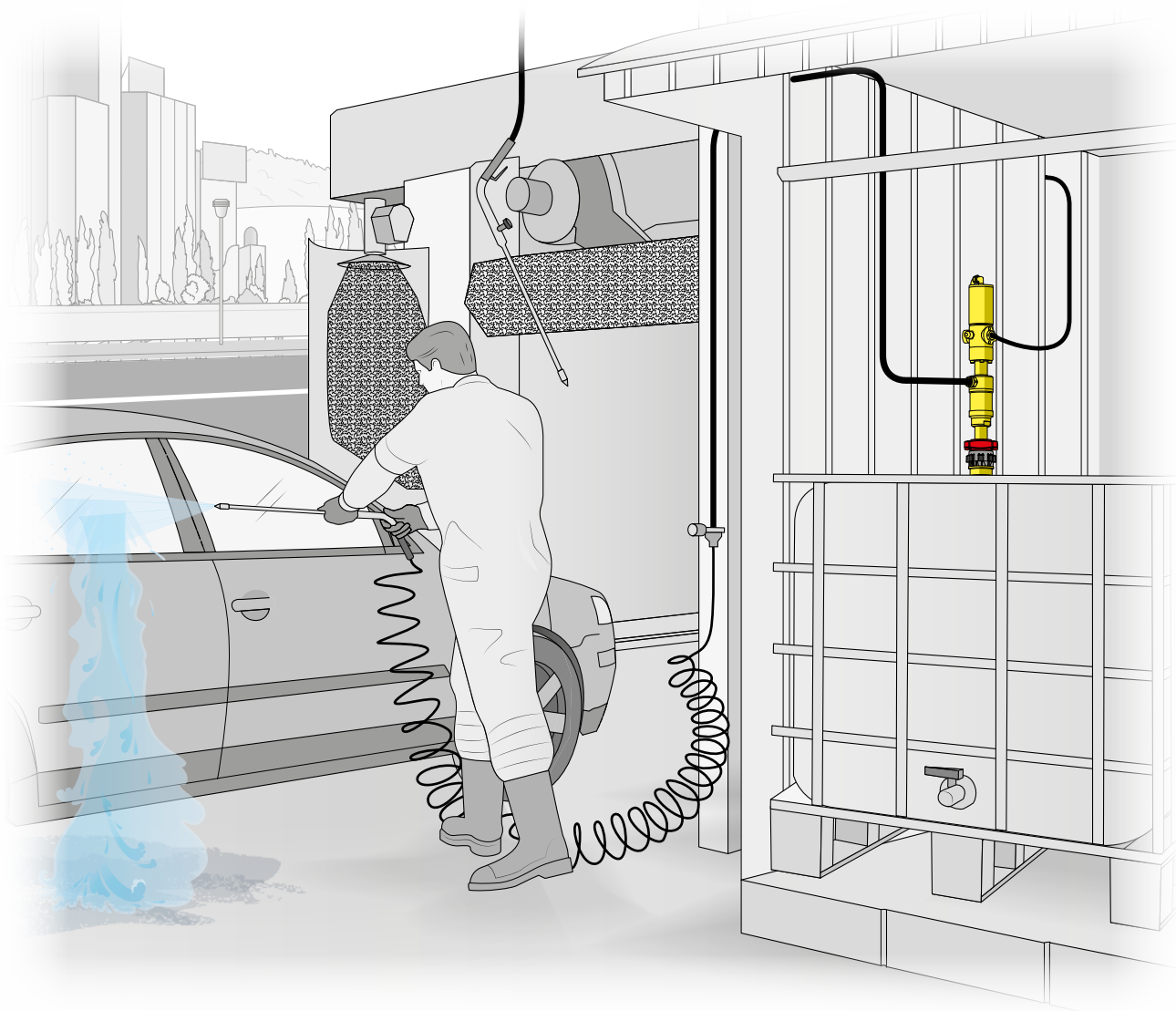


* Equipped with flexible suction hose connected to the foot valve. Pressure regulator included.

ACCESSORIES

P/N 33446
Antifreeze and windshield liquid gun.
 Equipped with:
 - inlet joint G 1/2" (f);
 - digital meter P/N 37785;
 - stainless steel rigid terminal with free outlet.







PRESSURE SPRAYERS

made of **AISI 304** stainless steel

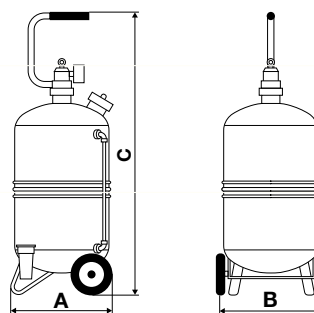
Devices for **spraying** low viscosity liquids as, disinfectants and similar. Filled to 3/4 their capacity with the required liquid and pressurised with air at 6 - 8 bar, they work independently without requiring continuous connection to the compressed air line.



P/N	23024	23025	23026	23030
Surface treatment	Painted	Polished	Polished	Polished
Tank capacity	24 l	24 l	24 l	24 l
Max working pressure	8 bar	8 bar	8 bar	8 bar
Spray gun	P/N 24806	P/N 24806	P/N 24810	P/N 24810
Delivery hose	5 m	5 m	5 m	10 m
Dispenser length	0,65 m	0,65 m	0,6 m	0,6 m
Antisplash funnel	P/N 24891	P/N 24891	P/N 24891	P/N 24891
Packing 	No. 1 - 0,090 m ³	No. 1 - 0,090 m ³	No. 1 - 0,090 m ³	No. 1 - 0,090 m ³
Weight 	12,8 kg	12,8 kg	12,8 kg	12,8 kg
Dimensions (A - B - C)	28 - 33 - 92 cm	28 - 33 - 92 cm	28 - 33 - 92 cm	28 - 33 - 92 cm

 Aggressive liquids can be used as long as they are compatible with the materials that are part of the item and after approval by the RAASM technical office.

 Fluids of Group I cannot be used (Directive 2014/68/EU).



ACCESSORIES

Art. 24810

Dispensing spray gun

in AISI 304 stainless steel with Viton® seals, 25 bar - 30 l/min - 1/2" (f). AISI 304 stainless steel spray nozzle included. Spray angle 110° - ø 1,1 mm.

KR2215

Set of 13 nozzles made of "POM" for dispensing spray gun P/N 24810 having the following features:

Spray angle	80°	110°
flow path	-	ø 0,6 mm
	ø 0,9 mm	ø 0,9 mm
	ø 1,1 mm	ø 1,1 mm
	ø 1,3 mm	ø 1,3 mm
	ø 1,4 mm	ø 1,4 mm
	ø 1,6 mm	ø 1,6 mm
	ø 1,8 mm	ø 1,8 mm

P/N 24806

Dispensing spray gun.

Grip made of nickel plated brass and dispensing tube made of AISI 304 s. steel with EPDM seals. Brass spray nozzle supplied as standard. Spray angle 70° - ø 1,0 mm.

P/N 24807 Dispensing spray gun.

Grip made of nickel plated brass and dispensing tube made of AISI 304 s. steel with NBR seals. Brass spray nozzle supplied as standard. Spray angle 70° - ø 1,0 mm.

P/N 24802

Nozzle in AISI 316 stainless steel with filter.





FRONTAL SERVICE COLUMNS

made of **AISI 304** or **AISI 316** s. steel



Service columns are the ideal tool to use in working environments with no or little free spaces on the wall or no-supporting vertical surfaces. Installable on walls or like a delivery point, they are connected to the centralized distribution system to work as independent operational stations.

Ceiling installation



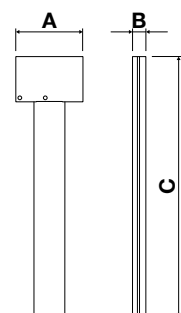
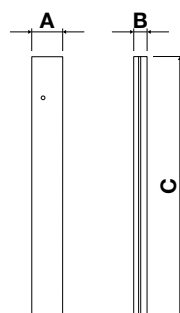
Floor installation



The connection to the system can be made both on the ceiling and on the floor.



P/N	39432	39421	39422
Applicable hose reels	1 hose reel	1 hose reel	2 hose reels
Material	AISI 316 stainless steel	AISI 304 stainless steel	AISI 304 stainless steel
Packing 	No. 1 - 0,10 m ³	No. 1 - 0,14 m ³	No. 1 - 0,265 m ³
Weight 	27,2 kg	37 kg	48,5 kg
Dimensions (A - B - C)	29 - 12,5 - 150 cm	29 - 12,5 - 245 cm	62 - 13 - 245 cm



ACCESSORIES

P/N 37900
Water gun entirely in technopolymer
12 bar - 50 l/min - G 1/2" (f).



P/N 37901
Water gun entirely in technopolymer with
AISI 316 s. steel flow path
24 bar - 60 l/min - G 1/2" (f).



P/N 843006 for SERIES 430
Swivelling support in
AISI 304 stainless steel.
It allows to rotate left and right for 55°.

P/N 853006 for SERIES 530
Swivelling support in
AISI 304 stainless steel.
It allows to rotate left and right for 55°.





Series 300



Kits with **SPRING OPERATED HOSE REELS**

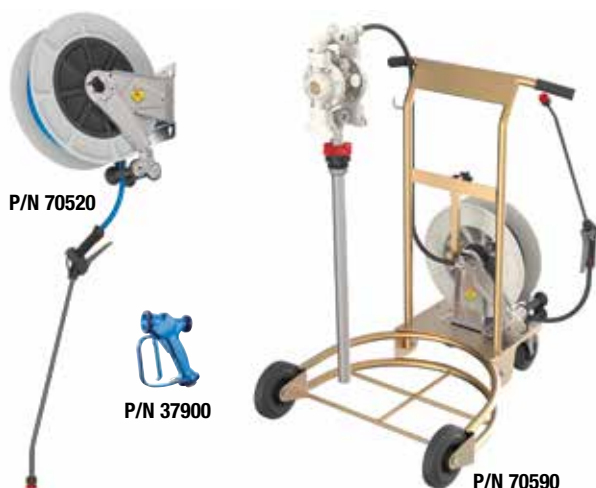
P/N	70535
Hose reel	P/N 93208.104
Hose	polyurethane - atoxic hygienic
Hose dimensions	20 m - ø 8x12 mm
Drum	AISI 304 s. steel
Bracket and arms	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N 24810
Nipple	G 3/8" (f) x G 1/2" (f)

Series 430



P/N	70500	70505
Hose reel	P/N 8434.102	P/N 8434.102
Hose	atoxic hygienic	atoxic hygienic
Hose dimensions	15 m - ø 1/2"	15 m - ø 1/2"
Drum	AISI 304 s. steel	AISI 304 s. steel
Bracket and arms	AISI 304 s. steel	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N. 24810	spray gun entirely made of technopolymer P/N 37900

Series 430 ABS



P/N	70520	70525	70590
Hose reel	P/N 9434.102	P/N 9434.102	P/N 9434.102
Hose	atoxic hygienic	atoxic hygienic	atoxic hygienic
Hose dimensions	15 m - ø 1/2"	15 m - ø 1/2"	15 m - ø 1/2"
Drum	ABS	ABS	ABS
Bracket and arms	AISI 304 s. steel	AISI 304 s. steel	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N 24810	spray gun entirely made of technopolymer P/N 37900	spray gun made of AISI 304 s. steel P/N 24810
Diaphragm pump	-	-	P/N 33514
Trolley	-	-	P/N 80210

⚠ Wheels made of hygienic rubber available on request.

Series 530



P/N	70510	70530
Hose reel	P/N 8534.102	P/N 9534.102
Hose	atoxic hygienic	atoxic hygienic
Hose dimensions	25 m - ø 1/2"	25 m - ø 1/2"
Drum	AISI 304 s. steel	ABS
Bracket and arms	AISI 304 s. steel	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N 24810	spray gun made of AISI 304 s. steel P/N 24810

Kit with **MANUAL HOSE REELS**

Series 430



P/N	70540
Hose reel	P/N 74325.100
Hose	atoxic hygienic
Hose dimensions	15 m - ø 1/2"
Drum	ABS
Bracket and arms	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N 24810
Nipple	G 1/2" (m) x G 1/2" (m)

Series 530



P/N	70550
Hose reel	P/N 246532.100
Hose	atoxic hygienic hose
Hose dimensions	25 m - ø 1/2"
Drum	AISI 304 s. steel
Bracket and arms	AISI 304 s. steel
Dispenser	spray gun made of AISI 304 s. steel P/N 24810
Nipple	G 1/2" (m) x G 1/2" (m)



ORIGINAL *spare parts*

Always choose RAASM
original spare parts.



Art. 2B3
Art. 2B3



POMPA A MEMBRANA
SERIE 1/2" 120-F
DIAPHRAGM PUMP
SERIES 1/2" 120-F

KIT RICAMBI
DOW KIT BOX
STANDARD GEAR
FOR PUMP

SPARE
EACH KIT
INCLUDES
TOOLING

SPARE EACH KIT INCLUDES TOOLING	CODE	DESCRIPTION
	KR2201	DIAPHRAGM PUMP
	KR2202	DIAPHRAGM PUMP
	KR2203	DIAPHRAGM PUMP
	KR2207	DIAPHRAGM PUMP
	KR2210	DIAPHRAGM PUMP
	KR2211	DIAPHRAGM PUMP
	KR2212	DIAPHRAGM PUMP
	KR2213	DIAPHRAGM PUMP
	KR2217	DIAPHRAGM PUMP
	KR2218	DIAPHRAGM PUMP

Art. 183/1611715 Mod. PPAB-12
VIST/ 25A - EXPLODED VIEW



NEBULIZZATORE CARRELLATO IN
CON SERBATOIO DA 24 l
STAINLESS STEEL WHEEL-AXLE
PRESSURE SPRAYER WITH 24 l TANK

VISTA

Art. 23026 Mod. NEB.I 24L

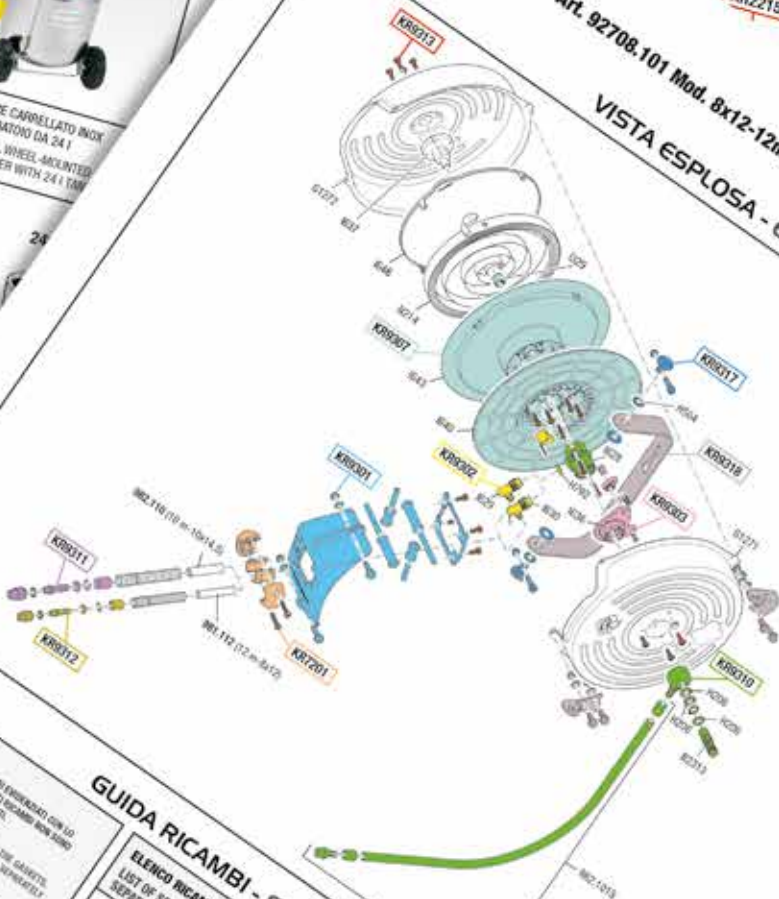


EXPLODED VIEW



KR2215 Disponibile su richiesta
 available on request
 10583

Art. 92708.101 Mod. 8x12-12m - Art. 92708.102 Mod. 10x14,5-10m



ANVOLTUBO CARTERATO S.250 INOX
PER ARIA/ACQUA-20bar 70°C
HOSE REEL S.250 INOX
FOR AIR/WATER-20bar 70°C

GUIDA RICAMBI - SPARE PARTS GUIDE

ELENCO RICAMBI FORNITI SINGOLARMENTE
LIST OF SPARE PARTS WHICH CAN BE SUPPLIED SEPARATELY

CODICE CODE	DESCRIZIONE DESCRIPTION
98T.112	TUBO ARIANZACCA Ø6x17,5 M
1015	TUBO PER AIR WATER Ø6x17,5 M
10	TUBO ARIANZACCA Ø10x17,5 M
	TUBO PER AIR WATER Ø10x17,5 M
	TUBO ARIANZACCA Ø12x17,5 M
	TUBO PER AIR WATER Ø12x17,5 M

[illegible][illegible]

ELENCO GUARNICIONI SNODI		
JOINTS GASKETS LIST		
CODICE CODE	DESCRIZIONE DESCRIPTION	Q.TA QTY
06	O-RING 20x2 "VITON"	1
	O-RING 18x1.5 "VITON"	1
	O-RING 18x1.5 "NBR"	1
	O-RING 18x1.5 "NBR"	1
	O-RING 18x1.5 "VITON"	1
	O-RING 18x1.5 "VITON"	1

GENERAL SALES CONDITIONS

FOR FOREIGN MARKETS



The following general sales conditions regulate the sale of goods and services by the company RAASM S.p.A. for customers residing outside the territory of the Italian State.

Art. 1 GOODS DELIVERY TERMS

The goods are delivered ex works RAASM S.p.A. The subsequent transport/shipment must occur by, in the name and at the expense of the purchasing customer, even by means of a carrier appointed and designated by the same. All risks arising from loading, subsequent custody and transport are borne entirely by the purchasing customer.

Art. 2 MINIMUM ORDERS

Each order cannot be for less than € 1,500.00, net of fees, taxes, customs duties, discounts and rebates and any other charges not included in the price of the goods. If, at the option of RAASM S.p.A., orders for lower amounts are accepted, an extra charge of € 155,00 shall be applied for order management administrative expenses.

Art. 3 ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, protection caps, clutches, swivelling supports, etc.) are supplied exclusively for fitting to or combining with the items RAASM S.p.A. produces

Art. 4 COMPLAINTS

Any defects immediately noticed after a brief inspection of the goods (damage, shortages or different product from that ordered) must be notified in writing to our company within 8 (eight) days of receipt the goods. Any defects in the product noticeable only during its use must be notified in writing to RAASM S.p.A. within 8 (eight) days of being detected.

Any returns of goods must be authorized in advance by RAASM S.p.A. and freight charges are at the customer's expenses.

Art. 5 DELIVERY TIMES/TERMS

Delivery times and dates are only approximate and are subject to change. Any delays in delivery do not entitle the customer to cancel the order or claim compensation for damages caused by delay of delivery. Delivery times for urgent orders must be agreed directly with RAASM S.p.A. RAASM S.p.A. has the right not to carry out the order and/or totally or partially carry it out, without this giving rise to reimbursement or claims for compensation for damage.

Art. 6 PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

Art. 7 PRICES

The current Price list cancels and replaces the previous price list. In the event of changes to our price list and/or individual items, the goods shall be forwarded at the price in force on the day of the order confirmation. The price list and/or the prices of individual items can be changed even without notice, according to the changes in market conditions or technical innovations/modifications made to the product. The prices are understood to be ex works RAASM S.p.A.

Art. 8 PAYMENTS

Payments must be made exclusively to RAASM S.p.A. at the agreed conditions. Under no circumstances will deductions or roundings be accepted. In case of late payment with respect to the agreed conditions, RAASM S.p.A. reserves the right to charge interest at the current rate, effective from the day after that agreed for payment, plus any additional expenses. Discounts conditional on the payment term and already credited shall be recharged.

Art. 9 WARRANTY

RAASM S.p.A. provides each product with the communication of particular instructions for the installation, use and maintenance requirements and the need to carry out possible checks on the product. All the technical information and data mentioned in the catalogue and in the price-list in force are not binding and can be changed without prior notice for the purpose of improving the quality of the products. All products manufactured by RAASM S.p.A. are guaranteed for a period of 5 (five) years from the date of delivery to the first user. The user must keep and show the sales invoice - or an equivalent document - together with the item's serial number in order to make a claim under the RAASM S.p.A. guarantee. The 5 (five) year guarantee does not apply to components which are subject to normal wear and tear (such as gaskets, diaphragms, O-rings, hoses, etc.), electronic components and items that are sold but not manufactured by RAASM S.p.A. (marked with a red asterisk in the current product catalogue) which are guaranteed for 1 (one) year from the date of delivery to the first user.

1 (one) year warranty is valid also for the following products:

- digital litre counters and FCS system;
- cable reels;
- electric, pneumatic or hydraulic motor supplied with our industrial hose reels S. 600 and 700.

Incorrect installation, use or maintenance of the product shall void the warranty. Upon written notice, the articles must be returned free to our Factory for checking and acceptance. In any case, the guarantee expires in the 10th year from the date of manufacture (indicated by the serial number), if the stated expiry takes place before the expiration terms indicated above (1 or 5 years from delivery to the first user).

The manufacturer declines any responsibility for possible inaccuracies contained in this catalogue, due to printing or transcription errors. The manufacturer reserves the right to make any changes or improvements of a functional, technical or aesthetic nature without prior notice.

RAASM

Art. 10 RESPONSIBILITY

RAASM S.p.A. is exempt from any responsibility and liability for accidents that may occur to persons and property, as a result of or during the use of the equipment, due to or depending on the same whenever the products have been damaged during transport, tampered with or modified, or improperly used, or stored, installed, protected and preserved without complying with the instructions of RAASM S.p.A. as given in the installation, use and maintenance instruction manuals for each product. RAASM S.p.A. is liable for the value for the supplied product and cannot be held responsible in any way for other possible costs or additional costs that the customer may bear.

Art. 11 CONFIDENTIALITY

Information not in the public domain that is exchanged in the execution of the contract is subject to the obligation of confidentiality, secrecy and security; said information is covered as an industrial secret and is of a confidential and reserved nature and may not be disseminated to third parties; its use is permitted exclusively and strictly to execute the supply contract.

Art. 12 INTELLECTUAL PROPERTY RIGHTS

The RAASM trademark, and likewise the name RAASM, RAASM S.p.A., the logo and the other distinctive signs are internationally registered trademarks, and RAASM S.p.A. does not authorise their use and application under any circumstances. Without prior written consent from RAASM S.p.A., the content of catalogues, price lists, instruction manuals and similar, including content on the website may not be reproduced, either entirely or partially, nor may it be transferred by electronic or traditional means, nor may it be modified or utilised by any means and for any purpose. All rights are held by RAASM S.p.A. The customer acknowledges that RAASM S.p.A. holds exclusive ownership of all the parts, images, photographs and signs not in common usage, the content in the catalogues, price lists, instruction manuals and similar and/or present on the website www.raasm.com and/or other channels and/or social networks used by RAASM S.p.A. for their informational and marketing campaigns pursuant to Copyright Law and the Industrial Property Code.

Art. 13 INFORMATION ON THE PROCESSING OF DATA PURSUANT TO ITALIAN LEGISLATIVE DECREE 196/2003

In accordance with article 13 of Italian Legislative Decree 196/2003 - Personal Data Protection Code - you are hereby advised that the processing of the personal data, provided with the purchase of goods or services and/or the supply of goods or services is solely for the purposes of carrying out the contract-based obligations and to comply with the specific requests from customers/ suppliers, as well as adhering to legislative obligations, in particular accounting and tax obligations or to respect orders issued by public authorities or to exercise a right in court. The data shall also be used for commercial statistics for corporate use and to obtain commercial information on our products and services if expressly authorised by the applicant. The processing of data shall be done using hard-copy and computerised procedures, in the manner and within the limits necessary to achieve the aforementioned purposes. Data may be communicated and processed by other companies in the Group for the same specified purposes, and may be made known to employees of our company, consultants and other suppliers, always and exclusively within the limits of the aforementioned purposes. The provision of data is mandatory for the correct execution of the contract and pre-contract based obligations, and failure to do so could result in it being impossible to fully comply with contractual obligations, and make it impossible to provide updates on the new products and services offered by our company. Data shall be processed for the duration of the contract relationship in place and subsequently to fulfil any legal formalities.

Art. 14 RIGHTS OF DATA SUBJECTS

The information is aimed at defining the limits and methods for the processing of data, based on which individual customers and/or suppliers may freely authorise the collection and subsequent use of data. Data subjects are entitled to the rights pursuant to article 7 of the aforementioned Code and in particular, the right to access their personal data, ask for the amendment, update and cancellation thereof, if incomplete, incorrect or collected in violation of the law, and may object to the processing for legitimate reasons, addressing requests in this regard to RAASM S.p.A. Pursuant to the same article the data subject also has the right to request the complete and updated list of the Data Supervisors, and to ask for the cancellation, transformation into anonymous form or blocking of data processed in violation of the law, and to oppose in any case, for legitimate reasons, the processing thereof.

To exercise these rights, and in the case of problems or any requests for clarification regarding what has been explained herein, kindly address these to RAASM S.p.A. - Via Marangoni, 33, Cassola (VI) - Italy or to the following email address: info@raasm.com.

Art. 15 DATA CONTROLLER

The Data Controller is RAASM S.p.A. with registered office at Via Marangoni 33, Cassola (VI) – Italy, and this is where the data processing shall take place.

Art. 16 COMPETENT LAW COURT

Any disputes shall be settled by the Law Court of Vicenza, Italy.

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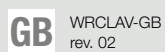


Company with quality,
environment and safety system
according to ISO 9001:2015,
ISO 14001:2015 and
ISO 45001:2018 standards

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