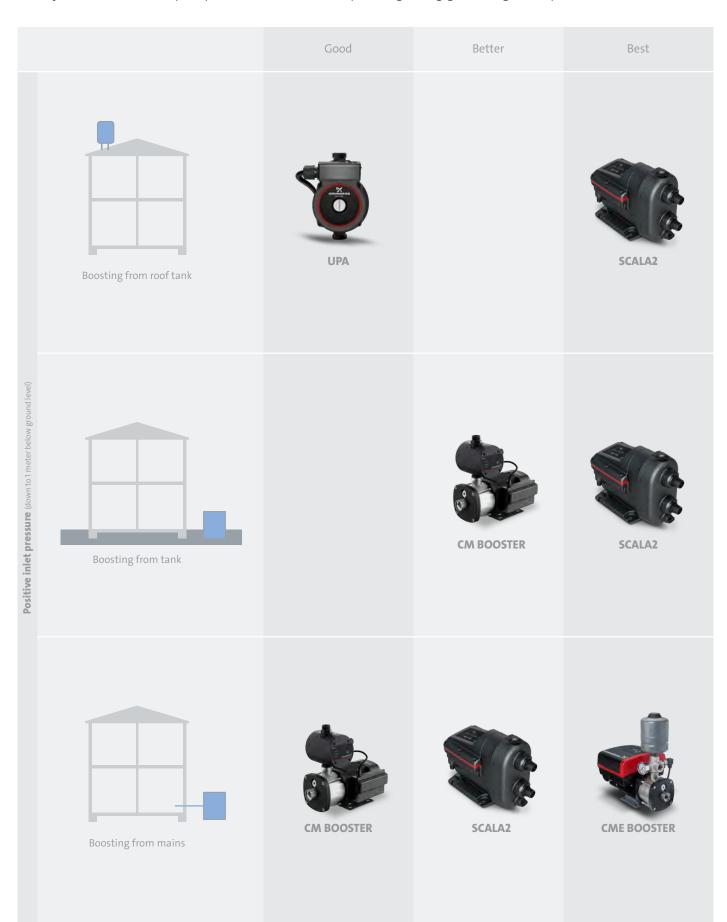
PERFECT WATERTHROUGHOUT THE HOME

QUICK SELECTION GUIDE

PRESSURE BOOSTING - PUMP SELECTION

Use the table below to select the best Grundfos pump for any type of water supply task. Once you've settled on a pump model, use the corresponding sizing guide to get the perfect fit.

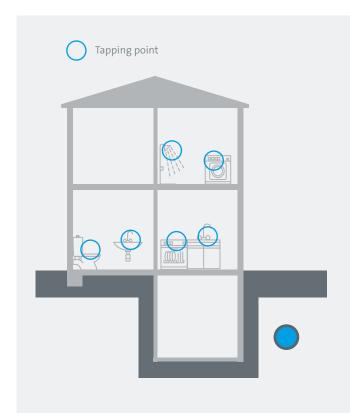


PRESSURE BOOSTING - PUMP SELECTION

Use the table below to select the best Grundfos pump for any type of water supply task. Once you've settled on a pump model, use the corresponding sizing guide to get the perfect fit.



PRESSURE BOOSTING - QUICK SIZING



Ex. sizing and selection

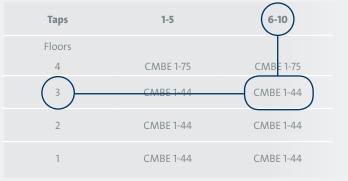
1. Required comfort level:

- Adjustable contant pressure

2. Find the right booster:

- How many taps: 6 taps
- How many floors: 3 floors

3. Result: CMBE 1-44



ADJUSTABLE CONSTANT PRESSURE LEVEL



- · All-in-one design
- · Dry-run protection

Floors\ ^{Taps}	₽ 1-5	6-10	11-20			
4	SCALA2 3-45*					
₿ 3	SCALA2 3-45	SCALA2 3-45				
€ 2	SCALA2 3-45	SCALA2 3-45				
₡ 1	SCALA2 3-45	SCALA2 3-45	SCALA2 3-45			
* Max 15 meter to higest tap point						



CMBE TWIN BOOSTER

- Adjustable constant pressure level
- · Dry-run protection
- · Low noise <55dB (A)

Floors\Taps	1-5	6-10	11-20	21-50	51-70	71-90	91-120
4	1-75	1-75	3-62*	3-93*	3-93**	3-93**	N/A
3	1-44	1-44	3-62*	3-62*	5-62*	3-62**	5-62**
2	1-44	1-44	3-62*	3-62*	5-62*	3-62**	5-62**
₡ 1	1-44	1-44	3-30*	3-62*	5-31*	3-62**	5-31**

- * CMBE or CMBE TWIN (duty/standby setup done via Grundfos GO Remote app)
- ** CMBE TWIN only

PRESSURE BOOSTING - QUICK SIZING

CONVENTIONAL PUMP CONTROL



Taps 1-2	Taps 2-4	Taps 4-8
UPA15-90	UPA15-120	UPA-15-160



-	DO	OCTED	
<i>r</i> nn	211	OSTER	

- · Compact design
- · Dry-run Protection · Easy installation

Floors\ ^{Taps}	1-5	6-10	11-20	21-50
4	CMB 1-54	CMB 3-47	CMB 3-47	CMB 5-47
₫ 3	CMB 1-45	CMB 3-37	CMB 3-47	CMB 5-47
€ 2	CMB 1-45	CMB 3-37	CMB 3-47	CMB 5-4
₡ 1	CMB 1-36	CMB 3-28	CMB 3-37	CMB 5-4

- · Adjustable start pressure
 - · Pressure read-out
 - · Cycling protection
 - · Max run time stop
 - · Auto-reset

Fixed pressure

CMB PM2

Max height 45 m

CMB PM1 22

Max height 18 m

CMB PM1 15

Max height 11 m

PRESSURE BOOSTING - QUICK SIZING

CONVENTIONAL PUMP CONTROL



AD.	General recommendation	Application	Recommended pump
	If the distance from tank wall to the pump is above 1.5 metres (4.9 feet), the model with side inlet should be selected.	One-storey house For toilet flushing, washing machine, car washing and garden watering	SB 3-35
If th is les	If the distance from tank wall to the pump is less 1.5 metres (4.9 feet), the model with suction strainer should be selected.	Two-storey house For toilet flushing, washing machine, car washing and garden watering	SB 3-45

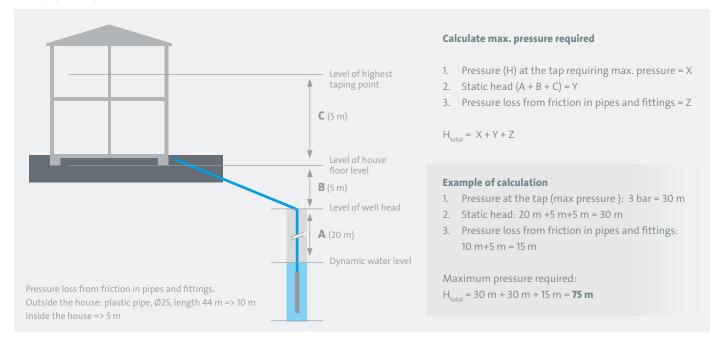
PRECONDITIONS

GROUNDWATER - QUICK SIZING - PUMP

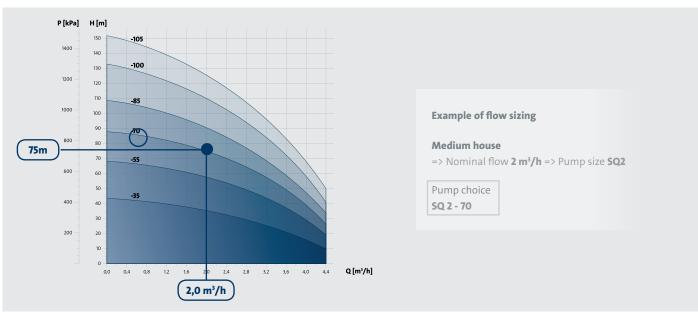
FLOW SIZING

		Kitchen sink	Dish washer, washing machine	Toilet w. wash basin and WC	Bathroom w. wash basin, WC and shower	Bathroom w. wash basin, WC and bathtub	Garden and lawn irrigation	Nominal flow [m³/h]	Recommended pump size
	Small house	1		1				1	SQ1
	Medium house	1	2	1	1			2	SQ2
SQ	Large house	2	2		1	1	2	3	SQ3
· Compact design · Built-in motor				2 x large house				5	SQ5
protection · Easy installation				3 x large house				7	SQ7

HEAD SIZING



PUMP SELECTION

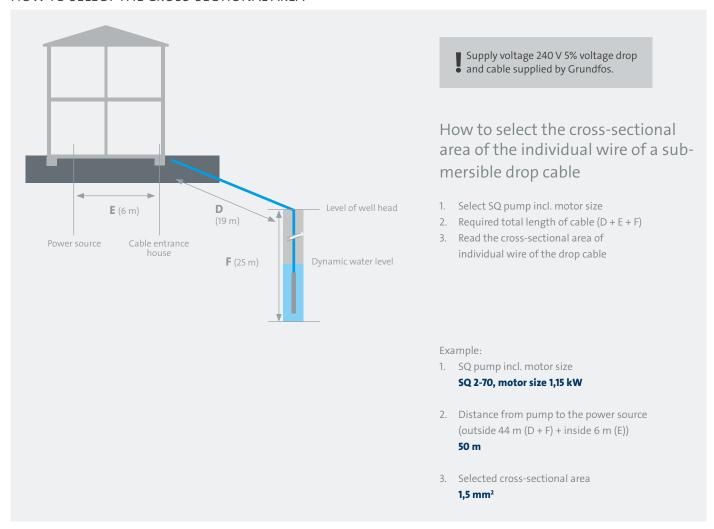


GROUNDWATER - QUICK SIZING - CABLE

MAXIMUM CABLE LENGTH

	P2	P2 I _{MAX}	Wire cross sectional area [mm²]			
	[kW] [A]	1.5	2.5	4.0	6.0	
				Maximum ca	ble length [m]	
	0.70	5.2	86	144	230	346
SQ CABLE · Supply voltage 240 V · 5% voltage drop	1.15	8.4	(53)	89	142	214
	1.68	11.2	40	66	107	160
	1.85	12.0	37	62	100	150

HOW TO SELECT THE CROSS-SECTIONAL AREA



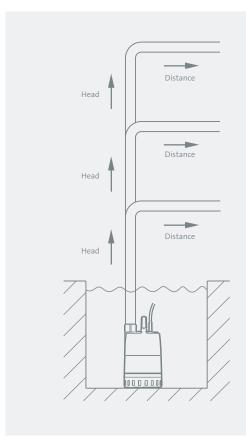
WASTE WATER - PUMP SELECTION

Use the tables below to select the best Grundfos pump for any type of wastewater task. Once you've settled on a pump model, use the corresponding sizing guide to get the perfect fit.

DRAINAGE

			Max. solid size [mm]	
	Drainage	Light duty	10 mm	UNILIFT CC
	Drainage For portable use or permanent	Light duty	10 mm	UNILIFT KP
	installation, clean or greywater and salt water*	Heavy duty	12 mm	UNILIFT AP12
	Effluent			UNILIFT AP35
	Surface- and rainwater as well as greywater from sanitary appliances		35 mm	UNILIFT AP35B
			50 mm	UNILIFT AP50
	Sewage/Domestic wastewater Domestic wastewater with toilet discharge		50 mm	UNILIFT AP50B

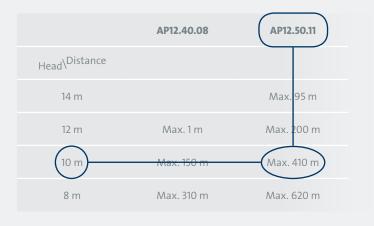
 $^{^{\}ast}$ Only special version of UNILIFT CC 7 and 9



Ex. sizing and selection

- 1. Select the best Grundfos pump for the type of wastewater task you need to solve:
 - Use the table on previous page
- 2. Find the right pump:
 - How head: 9 m
 - How long distance: 400 m
- 3. Result: AP12.50.11

The selection and sizing illustration is based on an inner diameter of a DN 32





discharge pipe and secure a self cleaning velocity inside the pipe.						
	CC 5	CC 7	CC 9			
Head\ ^{Distance}						
7 m			Max. 45 m			
6 m			Max. 80 m			
5 m		Max. 15 m	Max. 115 m			
4,5 m		Max. 35 m	Max. 130 m			
4 m		Max. 50 m	Max. 150 m			
3 m		Max. 80 m	Max. 180 m			
2,5 m	Max. 10 m	Max. 100 m	Max. 200 m			
2 m	Max. 25 m	Max. 110 m	Max. 215 m			

The selection and sizing illustration is based on an inner diameter of a DN 32 discharge pipe and secure a self cleaning velocity inside the pipe.



	KP 150	KP 250	KP 350
Head\ ^{Distance}			
7 m			Max. 25 m
6 m		Max. 20 m	Max. 60 m
5 m		Max. 50 m	Max. 95 m
4 m		Max. 85 m	Max. 130 m
3,5 m	Max. 15 m	Max. 105 m	Max. 145 m
3 m	Max. 30 m	Max. 120 m	Max. 160 m
2 m	Max. 65 m	Max. 160 m	Max. 195 m

The selection and sizing illustration is based on an inner diameter of a 11/2" pipe for UNILIFT AP12.40 and 2" pipe for UNILIFT AP12.50 and secure a self cleaning velocity inside the pipe.



	AP12.40.04	AP12.40.06	AP12.40.08	AP12.50.11
Head\Distance				
14 m				Max. 8 m
12 m			Max. 40 m	Max. 115 m
10 m		Max. 60 m	Max. 130 m	Max. 250 m
8 m	Max. 45 m	Max. 150 m	Max. 220 m	Max. 370 m
6 m	Max. 135 m	Max. 240 m	Max. 310 m	Max. 490 m
4 m	Max. 225 m	Max. 330 m	Max. 400 m	Max. 610 m
2 m	Max. 320 m	Max. 420 m	Max. 495 m	Max. 735 m

The selection and sizing illustration is based on an inner diameter of a 1%" pipe and secure a self cleaning velocity inside the pipe.



	AP35.40.06	AP35.40.08
Head\ ^{Dist} ance		
9 m		Max. 30 m
8 m		Max. 75 m
7 m	Max. 35 m	Max. 120 m
6 m	Max. 80 m	Max. 165 m
5 m	Max. 130 m	Max. 215 m
4 m	Max. 170 m	Max. 255 m
3 m	Max. 220 m	Max. 305 m
2 m	Max. 265 m	Max. 350 m



The selection and sizing illustration is based on an inner diameter of a 2" pipe and secure a self cleaning velocity inside the pipe.

	AP35B.50.06	AP35B.50.08
Head\ ^{Dist} ance		
9 m		Max. 15 m
8 m		Max. 75 m
7 m	Max. 20 m	Max. 135 m
6 m	Max. 80 m	Max. 195 m
5 m	Max. 140 m	Max. 260 m
4 m	Max. 200 m	Max. 320 m
3 m	Max. 260 m	Max. 385 m
2 m	Max. 325 m	Max. 440 m

The selection and sizing illustration is based on an inner diameter of a 2" pipe and secure a self cleaning velocity inside the pipe.



	AP50.50.08	AP50.50.11
Head\ ^{Dist} ance		
9 m		Max. 55 m
8 m		Max. 115 m
7 m	Max. 45 m	Max. 175 m
6 m	Max. 105 m	Max. 235 m
5 m	Max. 165 m	Max. 295 m
4 m	Max. 225 m	Max. 360 m
3 m	Max. 285 m	Max. 405 m
2 m	Max. 350 m	Max. 480 m





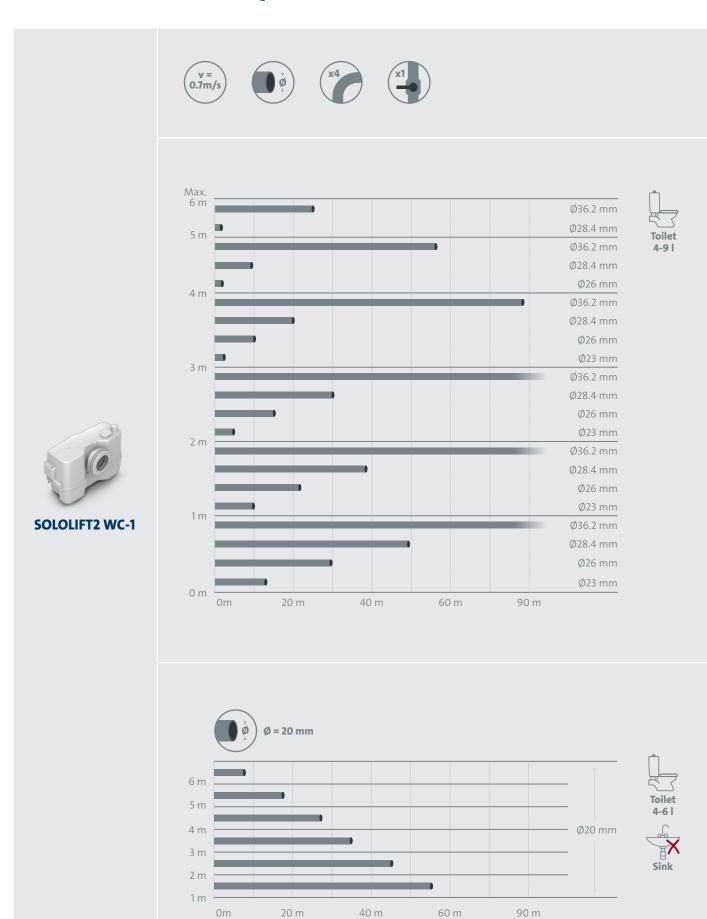
UNILIFT AP50B

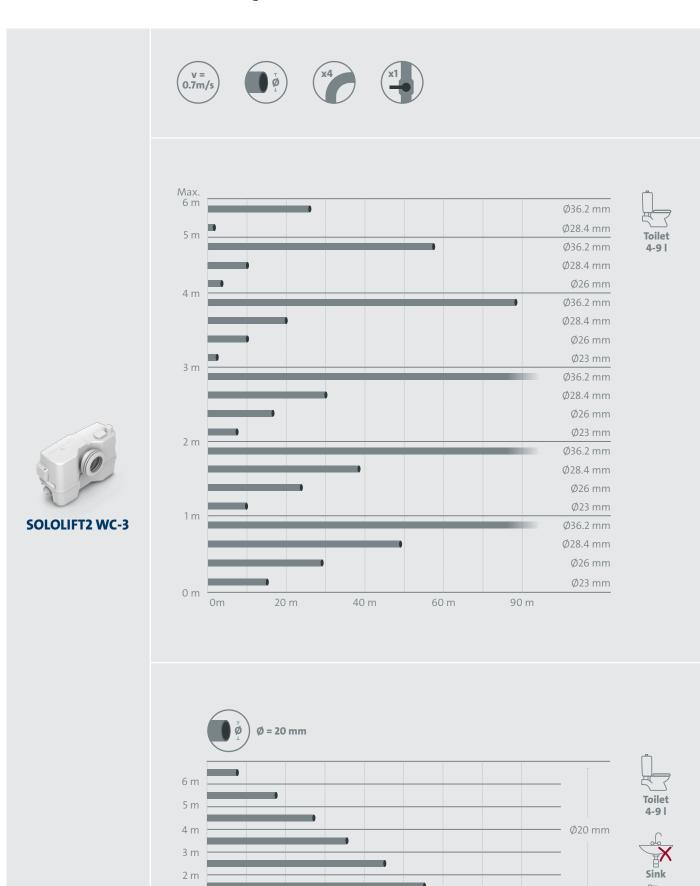
	AP50B.50.08	AP50B.50.11	AP50B.50.15
Head\Distance			
14 m			Max. 65 m
12 m			Max. 190 m
11 m		Max. 25 m	Max. 250 m
10 m		Max. 85 m	Max. 310 m
9 m		Max. 145 m	Max. 370 m
8 m	Max. 45 m	Max. 205 m	Max. 430 m
6 m	Max. 165 m	Max. 330 m	*
5 m	Max. 225 m	Max. 390 m	*
4 m	Max. 285 m	Max. 450 m	*
3 m	Max. 345 m	*	*
2 m	Max. 490 m*	Max. 740 m*	Max. 1060 m*

^{*}The pumps shall not operate for longer time with this Head

LIFTING STATIONS Fixed inlet Additional optional inlet

	SOLOLIFT2 WC-1	SOLOLIFT2 WC-3	SOLOLIFT2 D-2	SOLOLIFT2 C-3	SOLOLIFT2 CWC-3
Toilet					
Wall- mounted toilet					
Urinal	\bigcirc	\bigcirc			\bigcirc
Sink	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Bidet		\bigcirc	\bigcirc		\bigcirc
Shower		\bigcirc			\bigcirc
Bathtub				\bigcirc	
Washing machine					
Kitchen sink				\bigcirc	
Dish- washer				\bigcirc	
Water softener					





20 m

40 m

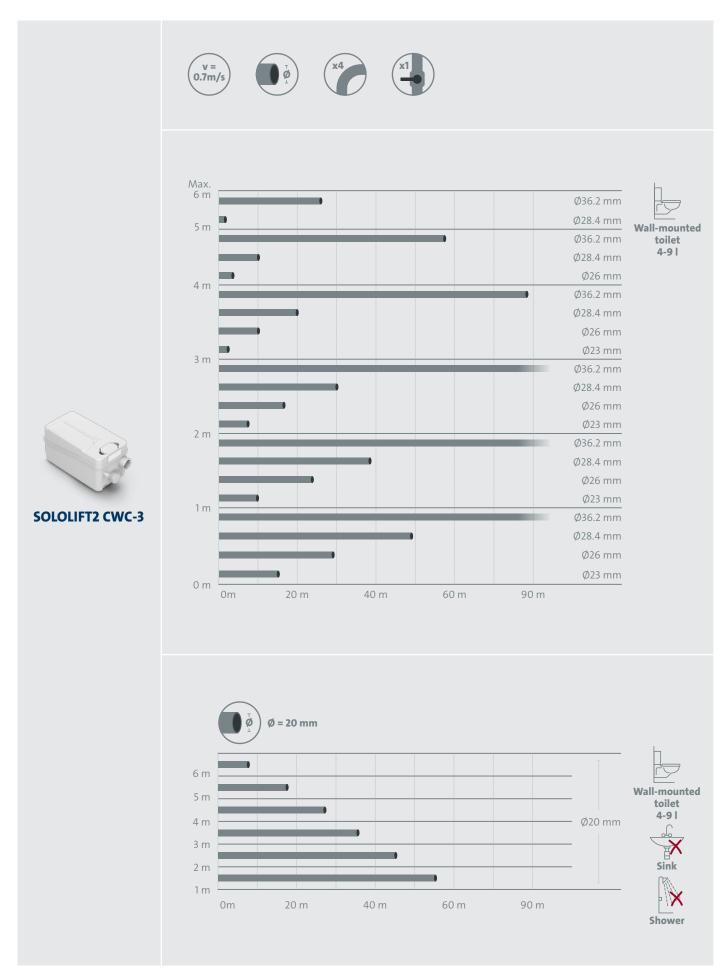
60 m

90 m

Shower

1 m

0m





m			9	13									Ø36.2 mm
	30	30											Ø28.4 mm
	14	14											Ø26 mm
	4												Ø23 mm
5 m													Ø20 mm
111			31	35		3							Ø36.2 mm
	54	54	2.5	4									Ø28.4 mm
	30	30											Ø26 mm
	13												Ø23 mm
	2	2.5											Ø20 mm
m			53	58	8	14		0.5					Ø36.2 mm
	78	78	9	11									Ø28.4 mm
	45	45	2.5	4.5									Ø26 mm
	21	21											Ø23 mm
	6.5	7											Ø20 mm
m			76	80	19	24		7					Ø36.2 mm
	102	102	16	18	1.5	3							Ø28.4 mm
	61	61	7	9.5									Ø26 mm
	30	30	2	2.5									Ø23 mm
100	12	12											Ø20 mm
m			98	102	29	35		13		3			Ø36.2 mm
	126	128	23	25	5	6.5		1					Ø28.4 mm
	77	76	12	14	1	2.5							Ø26 mm
	39	39	5	5.5									Ø23 mm
1	16	16	0.5	0.5									Ø20 mm
m			120	124	38	46		20		7		1	Ø36.2 mm
	150	150	30	32	9	10		3.5		0.5			Ø28.4 mm
	92	92	17	19	3.5	5		1.5					Ø26 mm
	47	47	8	8.5	1	1.5							Ø23 mm
10.0	20	21	2.5	2.5									Ø20 mm
m	0.5	l/s	11,	/s	1.5	l/s	2 1/	's	2.5	I/s	3 l/	's	



SOLOLIFT2 C-3



m		, , , , , , , , , , , , , , , , , , , ,	X		
					Ø28.4 mm
m	6				Ø20 mm
		24			Ø28.4 mm
2 m	22	0,1			Ø20 mm
		47	3		Ø28.4 mm
1 m	37	4.5			Ø20 mm
		71	10		Ø28.4 mm
0 m	52	9,5			Ø20 mm
	0.25 l/s	0.5 l/s	1 l/s	1.5 l/s	