

ELAFLEX Hose Reels are supplied as a complete customised package incl. our hoses, couplings and nozzles.

Hose Reels 'Compact Line HD 25' with automatic spring-loaded rewind system, used for retraction of Elaflex hoses up to 40 m in max. DN 25.

The robust construction with a reinforced spring make this reel very durable and ideal for heavy duty and intensive use, also under rough conditions.

Suitable for a wide range of media, e.g. gasoline, diesel, aviation fuels, urea solution (AdBlue®), detergents, solvents, oils, water, gases and others. For example: HD 25 with ZVA 25 or LPG 25 with DGC coupling for tank trucks.

MATERIALS

Frame: available in polyester powder coated carbon steel, UV resistant (on request: cataphoresis treatment or zinc plated) or stainless steel (AISI 304 or AISI 316 L).

Wet parts: available in carbon steel or stainless steel (AISI 304 or AISI 316 L).

Swivel joint: available in zinc plated carbon steel, brass or stainless steel (AISI 303 / AISI 316 L), in 90° or straight shape*).

Working pressure up to 200 bar*).

Temperature range -40° to +150° C*).

COLOURS



RAL 5017



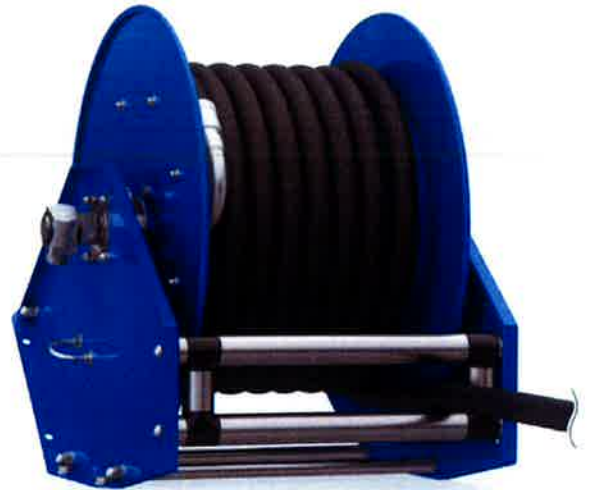
RAL 3002



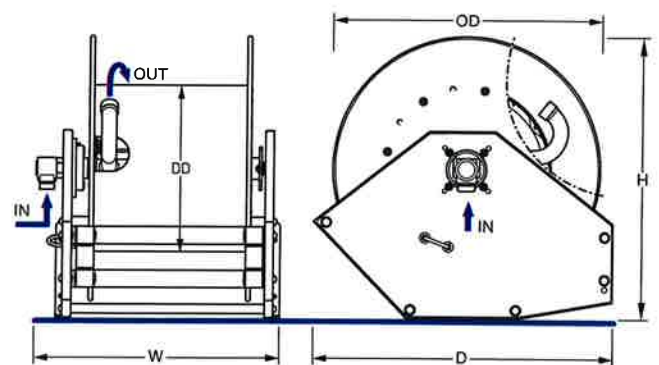
Special Colours
(on request)

MOUNTING POSITIONS

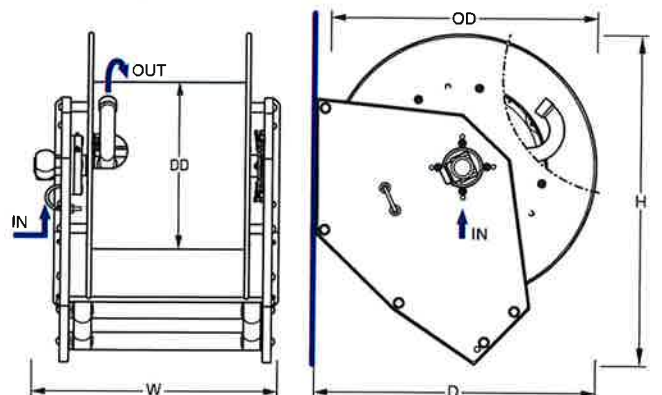
The specially designed side plates allow the installation on plain (Pos. A) or vertical surfaces (Pos. B) without further modification.











Mounting Position A: Plain Surface



Mounting Position B: Vertical Surface



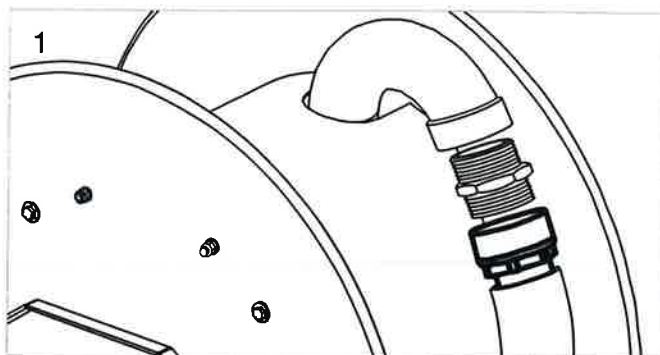
								
Recommended Hose	Connections	Drum Diameter	Disc Diameter	Dimensions Position A	Dimensions Position B	Weight	Standard Part Number	
max. Length	max. DN	IN / OUT	DD Ø (mm)	OD Ø (mm)	W x D x H (mm)	W x D x H (mm)	kg	Type
20 m	DN 25	1" bsp male / 1" bsp female	383	610	461 x 685 x 650	461 x 640 x 760	45	HR CL HD 25 L20
30 m	DN 25	1" bsp male / 1" bsp female	383	610	562 x 685 x 650	562 x 640 x 760	47	HR CL HD 25 L30
40 m	DN 25	1" bsp male / 1" bsp female	383	610	625 x 685 x 650	625 x 640 x 760	49	HR CL HD 25 L40

Please contact our sales team to check capacity when smaller hose diameters are required.

FEATURES

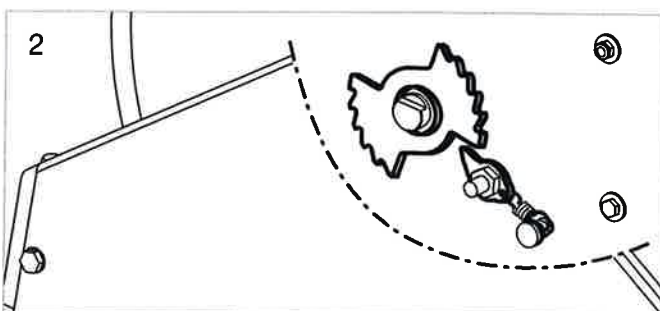
EASY INSTALLABLE HOSE ASSEMBLY (1)

The hose reel is equipped with a threaded carbon steel or stainless steel elbow. To ease the installation of the hose a female threaded union nut shall be used on the hose. A double nipple is needed to connect the hose to the elbow.



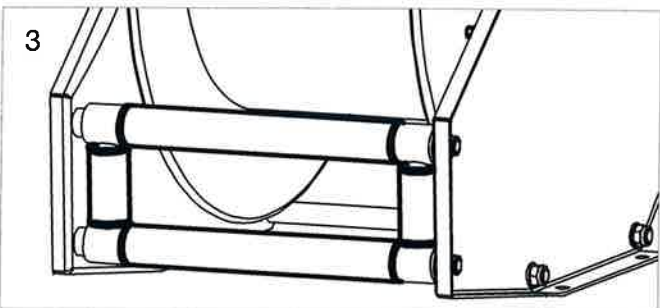
DRUM STOP MECHANISM (2)

All our spring rewind hose reels are equipped with a durable Drum Stop of stainless steel or steel FE 510 OR to avoid the accidental hose rewinding. It is also not burdening the operator by permanently pulling the hose against spring force.



REINFORCED HOSE GUIDE (3)

The static Hose Guide is integrated in the frame with durable stainless steel rollers (Ø 40 mm). The bearings are maintenance free self-lubricating. The Hose Guide for 'Compact Line HD' is provided in low position as standard.



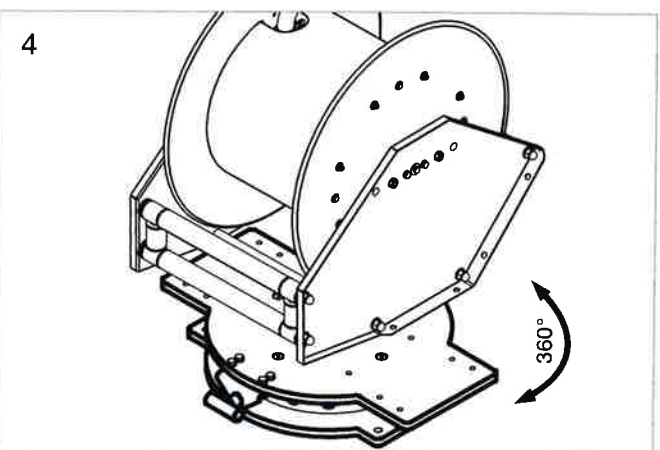
ACCESSORIES

SWIVEL SUPPORT FOR PLAIN INSTALLATION (4)

The Swivel Support is suitable for turning the hose reel in the required direction.

It is used for a plain surface (Pos. A) and allows a free rotation of the reel on its central pin enabling rotations up to 360°.

The integrated lock can fix the reel in the chosen position in 20° steps.



HOSE STOPS (5)

The hose reels can be supplied with a Hose Stop. It prevents the complete rewinding of the hose and can be placed anywhere along the hose assembly to the chosen of the hose length. Shape and dimension can vary according to the hose diameter.



GE- WICHT Weight Approx.	SCHLAUCH- GRÖSSE Hose Size			Betriebsdruck Work Pressure	Prüfdruck Test Pressure	Unterdruck max. Vacuum	Trommel - Ø Min. Reel Dia.	Rollenlänge Coil Length	BESTELL- NUMMER Part Number
~kg/m	ID in.	ID mm	OD mm	bar	bar	bar	mm	m	Type
0,3	3/8"	10	19	25	40	0,8	100	40	HD 10
0,4	1/2"	13	22			0,8	140		HD 13
0,6	3/4"	19	31			0,6	200		HD 19
0,8	1"	25	37			0,5	200		HD 25
1,0	1 1/4"	32	44			0,4	225	30 + 40 + 50 + 60 + 80	HD 32
1,1	1 3/8"	35	47			0,4	250		(HD 35)
1,2	1 1/2"	38	51			0,3	270		HD 38
1,4	–	40	54			0,3	270		HD 40
1,6	1 3/4"	45	59			0,3	300		HD 45
1,9	2"	50	66			0,3	400		HD 50
2,4	2 1/2"	63	79			0,2	600	30 40	HD 63
2,8	3"	75	91	20	30	–	600	40	HD 75
3,7	4"	100	116			–	900		HD 100

Der Innengummi ist quellfest, auslaugungsbeständig, kälteflexibel, nicht ausfärbend und nicht verhärtend. Der Außengummi ist hervorragend abriebfest und absolut witterungsbeständig. Entspricht Werkstoff NBR 1 der EN 12115, Farbkennzeichnung: gelb.
Kennzeichnung: Gelbe Markenringe alle 4 mtr. u. einvulkanisierte Prägebandstempelung.

ELAFLEX HD 40 · MINERALÖLPRODUKTE · 90°C · PETROLEUM PRODUCTS ·

EN 1761 · Ω · 25 BAR · ContiTech · MADE IN GERMANY · (Batch No.) · 3Q-18

The lining is resistant to swelling, solubility and discolouration. It is flexible at low temperatures. The cover is resistant to abrasion and weathering and furthermore provides a very good low temperature flexibility. Meets the material group NBR 1 of the EN 12115.
Marking: Yellow bands every 4 mtr. Continuous, vulcanised embossing as per example above.

2,3	–	60	76	10	16	I. Rohr / tube ~ 60 mm OD	40	HD-RV 60
2,9	3"	75	91			~ 76 mm OD		HD-RV 75
3,3	–	90	106			~ 89 mm OD		HD-RV 90
3,9	–	110	126			~ 108 mm OD	30	HD-RV 110

Zur Beachtung: In Saugleitungen dürfen die Rohrabstände nicht größer sein als der Innendurchmesser. Schlauchschellen Type SK siehe Seite 291.

Please note: When used for suction the distance between the pipe ends must not be larger than the inner diameter. Hose clamps type SK see catalogue page 291.

0,8	1"	25	37	20	30	0,5	200	40	(XHD 25)
1,0	1 1/4"	32	44			0,4	200		XHD 32
1,2	1 1/2"	38	51			0,3	270		XHD 38
1,4	–	40	54			0,3	270		XHD 40
1,6	1 3/4"	45	59			0,3	300		XHD 45
2,0	2"	50	64			0,3	400		XHD 50
2,8	3"	75	91			–	600		(XHD 75)

Vereinfachte Ausführung der Type HD. Die hohen Qualitätsanforderungen der VG-Norm für Kälteflexibilität, Auslaugungsbeständigkeit, Nichtverfärbung des Mediums, Abriebfestigkeit und Witterungsbeständigkeit werden von dieser preisgünstigen Ausführung nicht erreicht.
Kennzeichnung: Fortlaufende einvulkanisierte Prägebandstempelung ohne Farbringe.

ELAFLEX XHD 50 · EN 1761 · D · HEIZÖL-DIESEL-FUEL OIL · ECONOMY · Ω ·

PN 20 BAR · ContiTech · MADE IN GERMANY · (Batch No.) · 3Q-18

Simplified version of hose type HD. The high quality standards of the German Military Standard are not met in all respects by this Economy type, e.g. cold flexibility, non-discolouration of the medium as well as the resistance to abrasion and weathering.
Marking: Continuous, vulcanised embossing (example above) without coloured bands.

Hochdruck-Tankschlauch 'Gelbring' ohne Wendel. Ideal als Trommelschlauch für Mineralölprodukte aller Art. Temperaturbereich -30°C bis +90°C (kurzzeitig bis +110°C). Elektrische Widerstand <10⁶ Ohm. Entspricht EN 1761. Bauart zugelassen nach Bundeswehnorm VG 95 955 Typ D. Eichfähig nach europäischen Richtlinien. Entspricht EN 12115.

Innen : Nitril (NBR) schwarz, auslaugfest
Festigkeitsträger : Zwei dehnungsarme Textilgeflechte für extrem niedrige Volumenzunahme unter Druck
Außen : Chloropren (CR), schwarz, leitfähig



Type HD

'Yellow Band' high pressure fuelling hose without helix for reel operation. Ideal for all petroleum based products. Temperature range -30° up to +90°C (temporarily up to 110°C). Electrical conductivity < 10⁶ Ohm. Corresponds to EN 1761. Can be calibrated according to European regulations. Approved according to German military standard VG 95 955 Typ D. Corresponds to EN 12115.

Lining : Nitrile rubber (NBR) black, no fuel-solubility
Reinforcements : Two low tensile textile braids for extreme low volume increase under pressure.
Cover : Chloroprene (CR), black, conductive

FHD-Schläuche – flach aufrollbar, siehe Seite 129

FHD-hoses – collapsible marine hose, see page 129

Type FHD

Rohrverbindungsschlauch 'Gelbring' ohne Wendel hochflexible Ausführung, Werkstoffe und Verwendungsbereich wie Type HD



Type HD-RV

'Yellow Band' hose for flexible pipe joints, without helix, highly flexible. Design, material and application same as type HD high pressure hoses

Heizöl-Trommelschlauch 'Economy' ohne Wendel für Mineralölprodukte. Temperaturbereich -30°C bis +70°C. Elektrische Widerstand <10⁶ Ohm.

Innen : NBR schwarz, elektrisch ableitfähig
Festigkeitsträger : Zwei dehnungsarme Textilgeflechte
Außen : CR, schwarz, abriebfest, elektrisch leitfähig



Type XHD

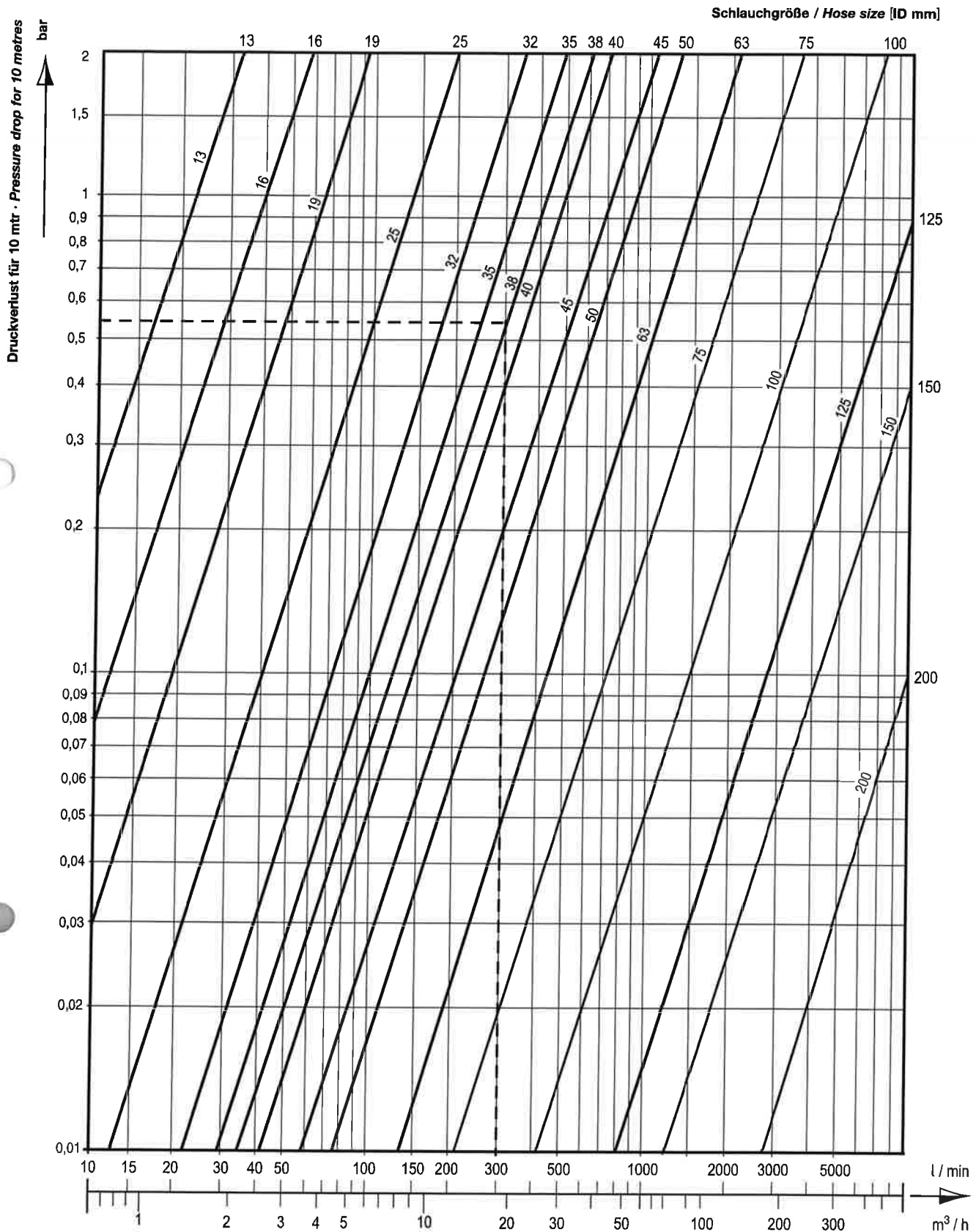
Economy fuel oil reel hose without helix for petroleum based products. Temperature range -30°C up to +70°C. Electrical conductivity < 10⁶ Ohm.

Lining : Nitrile rubber (NBR), black, electrically dissipative
Reinforcements : Two low tensile textile braids
Cover : CR, black, abrasion resistant, el. conductive

Druckverlust in ELAFLEX - 'HD' Schläuchen · Pressure Drop for ELAFLEX 'HD' Hoses

Ergebnisse von Prüfstandmessungen für ELAFLEX-Schläuche 10 m lang, mit glatter Innenwand, mit Diesel. Viskosität ~ 2 mm²/s (1,1 Englergrad)

Results of testing for ELAFLEX hoses, smooth-bore, 10 mtr. long with diesel / viscosity ~ 2 mm²/s (cST) - 1,1 degree 'Engler'



Beispiel: Gesucht wird der Druckverlust eines 50m langen Schlauches mit 38 mm innerem Durchmesser (ID) bei einer angenommenen Durchflussleistung von 300 Liter je Minute.

Lösung: Der für 10m abgelesene Druckverlust von 0,53 bar (gestrichelte Linie) muss mit 5 multipliziert werden. Es ergeben sich somit ca. 2,65 bar.

Zur Beachtung: Die obige Tabelle gilt für innen glatte Schläuche. Bei Schläuchen mit freiliegender Innenspirale (Folienwickelschläuche 'FWS') erhöhen sich die angegebenen Druckverlustwerte um ca. 25 %.

Bei aufgetrommelten Schläuchen erhöhen sich die angegebenen Druckverlustwerte je nach Schlauchdurchmesser, Trommeldurchmesser und Strömungsgeschwindigkeit um ca. 30 bis 40 %.

Example: We look for the pressure drop for a hose with a length of 50 metres and ID 38 mm with an expected flowrate of 300 litres per minute.

Solution: The pressure drop of 0,53 bar stated for 10m (dotted line) is to be multiplied with 5. You will find a result of approx. 2,65 bar for a length of 50m.

Please note: Above mentioned chart is valid for hoses with smooth inner bore. For hoses with visible inner spiral ('FWS' composite hoses), stated pressure drop values increase by approx. 25 %.

The stated pressure drop values also increase for reeled hoses depending on the hose and reel diameter and the flow speed by approx. 30 to 40 %.