



GOLLMER & HUMMEL
— Die Schlauchfabrik —

HILCOFLEX PU / DRAG

TPU hoses for umbilical manure systems



Application

- Supply hose for manure and slurry between manure reservoir and field
- Drag hose to tow behind the tractor
- Note – some bore sizes in HILCOFLEX PU can be used for both applications, consult factory for details

Features

- superior abrasion resistance
- extremely hardwearing and durable for long service life
- 50% higher puncture resistance compared to nitrile rubber hoses superior adhesion level between TPU and textile reinforcement
- no biodegradation, excellent resistance to manure and sludge (see resistance table in technical appendix)
- resistance to weathering and ozone
- excellent cold flexibility

Construction

Textile reinforcement:

- high tenacity polyester yarn, circular woven
- for supply hose: special weaving design for continuous high pressure performance and low elongation under pressure
- for drag hose: special weaving design for low bending radius, anti-kink and superior breaking strength
- totally embedded in the PU compound, excellent protected against mechanical damage

Lining and cover:

- thermoplastic polyether polyurethane extruded "through the weave" in a unique one step production process
- superior abrasion resistance 5-6 times better than nitrile rubber hoses
- inside: very smooth for minimum friction loss
- outside: very smooth for good flexibility





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Bore size (mm) (inch)		Working pressure (Bar) (PSI)		Working pressure max. (Bar) (PSI)		Bursting pressure (Bar) (PSI)		Breaking strength (kg) (lbs)		Article code
HILCOFLEX PU, black/green color										
076	3"	16	250	20	300	50	750	6.900	15.200	20200-076000
090	3 ½"	16	250	20	300	50	750	8.600	19.000	20200-090000
102	4"	16	250	20	300	50	750	13.800	30.400	20200-102000
114	4 ½"	16	250	20	300	50	750	13.800	30.400	20200-114000
127	5"	14	200	17	240	42	600	20.400	45.000	20200-127000
152	6"	14	200	17	240	42	600	27.200	60.000	20200-152000
HILCOFLEX PU DRAG, orange color										
076	3"	16	250	20	300	50	750	6.900	15.200	20221-076000
090	3 ½"	16	250	20	300	50	750	8.600	19.000	20221-090000
102	4"	16	250	20	300	50	750	13.800	30.400	20221-102000
114	4 ½"	16	250	20	300	50	750	13.800	30.400	20221-114000
127	5"	14	200	17	240	42	600	20.400	45.000	20221-127000
152	6"	14	200	17	240	42	600	27.200	60.000	20221-152000
HILCOFLEX PU DRAG EXTRA, blue color										
102	4"	16	250	20	300	50	750	13.800	30.400	20231-102000
114	4 ½"	16	250	20	300	50	750	13.800	30.400	20231-114000
127	5"	14	200	17	240	42	600	20.400	45.000	20231-127000

Working pressure:

Pressure data are valid for the hose only (medium water, 20°C/68°F). On coupled hose units the working pressure can be lower because of the nominal pressure of the coupling system or the method of coupling binding.

Working pressure max:

The producer reserves the right to approve the hose for the maximum working pressure only after detailed evaluation of the application. Consult factory for details!

Breaking strength:

To obtain maximum lifetime the end pull under working conditions should not exceed 1/3 of the breaking strength.

Standard length:

100/200 m (330/660 ft),
other lengths on request

Service temperature: -50°C up to +75°C (-58°F up to 167°F),
for water

Change in technical specification without prior notice.

