



OROFLEX® TERRAIN™ ASSEMBLIES
OFTRC Series

Polyurethane Discharge Hose Assemblies

GENERAL APPLICATIONS

- Transfer of freshwater or frackwater

CONSTRUCTION

Black polyurethane (TPU) hose using an extruded through-the-weave process with circular woven high tenacity polyester reinforcement

SERVICE TEMPERATURE RANGE

-58°F (-50°C) to +150°F (+65°C);
Intermittent service to +175°F (+79°C)



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FEATURES AND ADVANTAGES

- **Premium Polyurethane (TPU) Material** – Exhibits exceptional resistance to abrasion, allowing for use in applications where severe abrasion is a factor and providing longer service life versus rubber or PVC hoses. Also, exhibits exceptional resistance to oils and petroleum based products.
- **Couplings Included** – Durable and lightweight oilfield hose couplings (AL-LDHC Series) on hose ends.
- **Unique Woven Construction** – Specially designed weave pattern provides resistance to kinking, stretching and twisting. Superior snaking resistance!
- **Longer Lengths** – Manufactured in special 660 foot lengths to reduce possible leaking points.
- **Smooth TPU Tube** – Provides low friction loss.
- **Compact Design** – Flat hose design rolls up into tight coils for easy storage and transport, takes up less space than other hoses.
- **Factory Tested** – 100% Hydraulic tested with factory certificate.
- **Supreme UV and Ozone Resistance** – For extreme UV and ozone conditions.
- **Cost Efficient** – Savings for 16" versus using 2 x 12" lines. *See page 21 for details.*

Part Number	Size (in)	Size (mm)	Wall Thickness (in)	Working Pressure (psi) at 68°F	Burst Pressure (psi) at 68°F	Coil Length (ft)	Tensile Strength (lbs)	Weight (lbs/ft)
+OFTRC-1000X660	10	254.0	0.169	200	500	660	100,310	2.82
+OFTRC-1200X660	12	304.8	0.185	175	435	660	121,254	3.52
+OFTRCH-1200X660	12	304.8	0.185	200	500	660	154,300	3.63
+OFTRCH-1600X660	16	406.4	0.185	175	435	660	176,400	5.11

+ **NOTE:** This is a non-stock product. Minimum order requirements may apply. Contact Kuriyama customer service for details.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



Hydraulic Performance

Friction Loss*						
Diameter	bpm	psi/mile	psi/3miles	psi/5miles	psi/7miles	psi/10miles
12"	100	58	174	-	-	-
14"	100	28	83	138	193	-
16"	100	15	44	73	102	145

Friction Loss*					
Diameter	bpm	psi/mile	psi/3miles	psi/5miles	psi/6miles
12"	150	131	392	-	-
14"	150	58	174	290	-
16"	150	29	87	145	174

Friction Loss*				
Diameter	bpm	psi/mile	psi/3miles	psi/4miles
12"	175	-	-	-
14"	175	81	244	-
16"	175	41	123	164

Friction Loss*			
Diameter	bpm	psi/mile	psi/3miles
12"	200	-	-
14"	200	105	315
16"	200	54	161

	Satisfactory
	Not advisable. Velocity over 12.5 ft/s
	Not advisable. Velocity over 15 ft/s or maximum working pressure exceeded

**Friction loss calculated for straight lines of 660' assembled with grooved-end re-attachable fittings with Victaulic assembly. Fresh water at 20°C.*

CONCLUSIONS

- 1 x 16" line can replace 2 x 12" lines to cover the same distance & flow: 200bpm vs 100bpm @ 3 miles
- A 16" line can bring almost 50% more water than a 12" line for twice the distance: 150bpm @ 6miles vs 100bpm @ 3miles
- A 16" line can cover twice the distance with the same flow than a 14" line: 6 miles vs 3miles@150bpm
- A 16" line can move 30% more water than a 14" line for the same distance: 200bpm vs 150bpm @ 3miles

ADVANTAGES OF A 16" LINE VS A 12" LINE

- Less Manpower & Lower Operation Costs
- Lower Material Costs
- Less Time & Space Required for Deployment & Retrieval
- Lower Eco Footprint & Lower Accident Rate
- 100% pumping time reduction (50% compared to a 14" line)
- Less Booster Pumps Needed (if any)

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