



UNI-BRAID® R165 HOSE

**Titeflex R165 series...The original UNI-BRAID® design that outperforms all the others.**

#### APPLICATIONS:

The ultimate transfer hose for a variety of high pressure applications.

- R.I.M. Reaction injection molding machines
- Industrial gasses
- Hydraulic service with phosphate ester fluids
- Compressed natural gas
- Transfer of automotive sealants

#### TEMPERATURE RANGE:

- -65°F to 400°F (-54°C to 204°C)

#### AVAILABILITY:

- UNI-BRAID® can be fitted and tested to your exact specification. Kord Industrial is certified to fabricate and distribute all Titeflex high pressure R165 series hose assemblies.

#### END FITTING ATTACHMENTS:

- R165 hose fitting selection include 304/316 SS Tube Stub, FJIC Swivel, and Male/Female Face Seal end fitting configurations for most hose I.D. sizes.

The hose ends are permanently attached by either swaging or crimping, depending on end style selected. Please see Hose End Catalog for complete fitting selection and specifications.

**UNI-BRAID® high-pressure hose is the most economical high pressure PTFE hose product ever offered to the market. It combines long life expectancy, high durability, and proven performance for superior service and cost effectiveness over the long term.**

#### APPLICATION ADVANTAGES:

- Design optimized for your specific application
- Manufactured in long lengths to reduce hose costs associated with coupling hose sections
- Economical and cost effective
- Greater Flexibility: In industrial hose applications where high performance under harsh conditions is required, Titeflex UNI-BRAID® PTFE hose offers effective solutions and high value. The patented UNI-BRAID® construction features a single outer layer braid that reduces bulk while maximizing pressure capability and provides an exceptionally tight bend radius.
- Hose Construction: R165 hose is made of conductive PTFE using Titeflex "ZS" (Zero Static) construction, to bleed off static build-up in high flow applications and eliminate the risk of "static" burning of the core. NOT for gaseous applications. Please consult factory for gaseous or high effusion media. Reinforcement of combined single plaits of small diameter, tiered, tension controlled type 304 stainless steel wire make up the braid jacket. This specially designed outer layer of braid eliminates conventional spiral wraps, reducing bulk without sacrifice of pressure capability. In larger sizes (-12 thru -24) there is an additional braid layer between the PTFE innercore and the pressure carrying outer braid.

## R165 HOSE

HOSE PART NUMBER	NOMINAL SIZE		NOMINAL ID in	NOMINAL OD in	MAX OPERATING PRESSURE† ROOM TEMP psi	ROOM TEMP BURST psi	HIGH TEMP BURST psi	MAXIMUM CONTINUOUS LENGTH ft	MINIMUM BEND RADIUS in	HOSE WEIGHT lb/ft
	in	mm								
R165-4	1/4	6	.222	.390	5,000	15,000	12,000	50	1.50	.100
R165-6	3/8	10	.308	.490	5,000	15,000	12,000	50	2.50	.163
R165-8	1/2	13	.401	.615	5,000	15,000	12,000	50	2.87	.232
R165-10	5/8	16	.495	.730	5,000	15,000	12,000	50	3.25	.325
R165-12	3/4	19	.617	.990	5,000	15,000	12,000	50	3.87	.660
R165-16	1	25	.867	1.270	5,000	15,000	9,000	50	5.00	1.020
R165-20	1-1/4	32	1.118	1.660	5,000	15,000	9,000	33	12.00	1.850
R160-24	1-1/2	38	1.375	1.900	4,000	12,000	9,000	33	14.00	1.910

† Operating pressures shown are for non-impulse service. Consult factory for temperature-adjusted ratings and impulse cycle applications.