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TEFLON[®] HOSE ASSEMBLIES CATALOGUE



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A Few Words About the Company

THT Ostrava CZ, has been manufacturing the Teflon[®] hose assemblies for more than 15 years. The company is an authorized manufacturer and distributor, approved by TITEFLEX EUROPE SAS company, located in Ozoir-la-Ferriere, France. The hose assemblies are designated primarily for aviation and rocket industry and aimed mainly at Central and Eastern European market and for countries of the former Soviet Union.

The company is equipped with TITEFLEX original technology and the whole production is done in accordance with TITEFLEX technical standards.

The main production program is intended to customers in the aviation and rocketry manufacturing and maintenance. Fuel, hydraulic, oil, pneumatic and oxygen systems of various aircraft, helicopters or rockets are fitted with our hose assemblies.

A list of the largest costumers includes Czech, Slovak, Polish aircraft manufacturers & maintenance centres and also operators and maintenance centres of Mil helicopters, Kamov helicopters, Beriev aircraft etc.

Our certificates & authorizations

THT Ostrava CZ, is a certified manufacturer of aircraft parts in accordance with international regulations EASA Part-21, Subpart G. The quality system according to EN ISO 9001:2009 and Czech Defence Standards–AQAP 2120 is established inside the company. We are approved by Military Aviation Authority of the General Staff of the Armed Forces to supply the Ministry of Defence of the Czech Republic.

THT Ostrava company is a holder of Permit for Trade in Military Equipment.

Where you can meet TITEFLEX Teflon® hoses:

Airbus A320, A330, A340, A380, A350, CRJ Serie, ATR 42 & 72, Dassault Falcon, T50, Eurocopter AS350, AS332, AS365, EC175, Agusta-Westland AW139, A109, Sikorsky S-92, MI-17, NH90 and others.

Where you can meet THT Ostrava CZ, a.s. Teflon® hose assemblies:

L410 (UVP, UVP-E9, UVP-E20, NG), Zlin Z242, Z143, Evektor EV-55, PZL M28 Skytruck, PZL M18 Dromader, PZL-104 Wilga, PZL-130 Orlik, W3-A Sokol, Mil helicopters Mi-8, Mi-17, 171, Mi-24, Kamov helicopters Ka-32, Ka-226, Beriev Be-200, Tupolev Tu-214, Tu-334, L-39, L-59, L-159.

Market division

TITEFLEX EUROPE SAS hose assemblies are designed especially to "Western" aircraft manufacturers, accustomed to use imperial fittings.

THT Ostrava CZ, hose assemblies are designed to "Eastern" part of the market, where metric system is historically prefered.

Need spare parts for your aircraft?

THT Ostrava CZ, will supply you with pleasure with spare parts for aircraft and helicopters, produced (especially) in Russian Federation. In particular, mainly for helicopters of Mil series (Mi-2, Mi-8, Mi-14, Mi-17, Mi-171/172, Mi-24, Mi-35) and Kamov series (Ka-226, Ka-32 etc.) Tupolev, Antonov and Beriev Aircraft. All the spare parts are supplied directly and exclusively from Russian producers with relevant certificates confirming their quality. We can offer spare parts both new and repaired, according to client's demand.



About PTFE Teflon® Hoses

The Teflon[®] hose assemblies were originally developed for NASA aerospace applications. They are made of PTFE (polytetrafluorethylene) and they are chracterized by their outstanding characteristics :

- High resistance to UV radiation
- Excellent chemical resistance
- Excellent resistance to high temperatures
- Resistance to aging of the material
- · Low absorbtion and high resistance to solvents
- High abrasion resistance
- Corrosion resistance
- Flex/fatigue resistance
- Heat and cold resistance
- Zero volumetric expansion

Teflon® and rubber hose comparison

PTFE-Teflon[®] Unlimited life time

Unlimited shelf time Teflon^{*} is immune against ozone effects

Teflon[®] is concentrated acid-proof

Noticeable higher cleanliness of carried fluids TITEFLEX hoses meet all requirements of Currently valid international aviation standards especially fire-proof requirements

Rubber

Hose life time limited by date of manufacture and operation time Limited shelf time

Faster aging in extreme environmental conditions (equatorial areas)

Rubber components gradually dissolve to carried fluids

Does not meet requirements of the newest international aviation standards.

Positive impact on the increase of safety and reliability and the reduction of operating cost proves the fact that more than 40 helicopters Mi-17, Mi-24 and Mi-8 have been fitted with Teflon[®] hoses covering all systems. These helicopters have flown more than 70.000 flight hours in over 10 years without any problem with our hose assemblies.

Industrial Teflon® hoses

It is necessary to mention also industrial usage of Teflon® hose assemblies.

They are utilized by clients in the fields of chemical and petrochemical industry, refrigeration and food industry, processing, filling and distribution of gas

- power engineering
- automotive
- production and maintenance of agricultural, forestry and construction industry

A majority of necessary input material is at THT Ostrava CZ stock. It means, we allways try to minimize our lead times so as your operation can continue as soon as possible in case of AOG.

Standardly, when you order a hose assembly, the lead time varies in 2 to 6 weeks interval.

THT Ostrava CZ – product support

We can offer (for valuable price or free of charge, depending on the type of contract) advisory and consultancy services during the period of introduction and implementation of our new Teflon[®] hose assemblies to your aircraft.

Besed on our existing experience with aerospace Teflon[®] hose assemblies manufactured by THT Ostrava CZ, we can proudly offer a lifetime warranty to our production.

THT Ostrava CZ – hose assemblies design & development

As a Production organization, according to EASA Part 21G, all our hoses are subject to approval of Design organisation, mostly an aircraft manufacturer.

Nevertheless, we often meet requirements of either manufacturers or maintenance centres for a new hose assembly or replacement of the original rubber hose by a new, Teflon[®] one.

In these cases, we require either detailed technical specification or sending of the original hose assembly, and our technicians are able to make a customized technical design of Teflon[®] hose assembly.

Subsequently, the hose can be manufactured and shipped either with EASA Form 1 or Certificate of Conformity.

THT Ostrava CZ – your partner for business in Russia

We have been working with our partners in the Russian Federation since 2003. Our Russian branch headquarters is in Czech House in Moscow. We are engaged in import and export of goods. The objective of export of THT Ostrava CZ, a.s., is mainly Teflon[®] hoses. The objectives of import are mostly spare parts and equipment for aircraft from the Russian Federation and other CIS countries.

Our staff is pleased to provide helicopters (Mil, Kamov) and their components maitenance, repairs or medernization in authorized maintenance centres in Russia and Europe.

We can provide you with interesting price quotation in case that you intend to buy a new or reconditioned helicopter (of Russian origin).

THT Ostrava CZ – aircraft spares supplier

Our company is a holder of the licence to conduct foreign trade in military equipment range. Thanks to good business ties, solid relationship with producers and knowledge of environment, we are able to provide spare parts for helicopters Mi ((Mi-2, Mi-8, Mi-14, Mi-17, Mi-171/172, Mi-24, Mi-35) and Kamov series (Ka-226, Ka-32 etc.) and other military equipment in accordance with applicable legislation.



Certificates





R160 High Pressure Hose 210 bar / 3000 PSI

Specification approvals:

AS1339 AS604 MIL-H-26633 MIL-H-38360 TSO C75 type III B – S/P

Titeflex R160 is a lightweight high pressure 3000 PSI (207 Bar) aerospace hose. The hose consists of an extruded smoothbore PTFE innercore, reinforced with CRES 304 wire braid in a single layer on sizes -04 through -10, or a double layer on size -12. The PTFE innercore is conductive and provides excellent chemical resistance through a temperature range of -54°C to +204°C with unlimited shelf life. The pre-tensioned braid gives R160 hose the tightest bend radius of any metal braided high pressure PTFE hose. The standard fitting material is CRES. Fire protection per AS1055 Class A & B is assured in form of TEBM160 hose

Fire protection per AS1055 Class A & B is assured in form of TERM160 hose. Chafe resistant hose are available as RP160 hose – see next page.

Hose construction

Innercore: It consists of extruded Teflon[®] powder charged with carbon. The addition of a carbon charge before extrusion offers good electrical conductivity. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +204°C (-65°F and +400°F), and an unlimited shelf-life. **Wirebraid:** The innercore is reinforced by a braid consisting of type 304 stainless steel wire. For the ND 6 (-4) to ND 16 (-10) the armour consists of a single braid, while for the ND 20 (-12) it consists of a double braid.

The fittings: are swaged to the hose using the progressive swaging method. The fittings are made of stainless steel (insert, nut and collar). The catalogue provides the connection definitions linked to the most widely used standards, although THT Ostrava CZ is specialized in the design of special fittings or fittings meeting other standards.

Progressive-swaged stainless steel fitting

Positive braid lock

UNIBRAID[®] reinforcement

HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (MIN) mm	HOSE OD (min) mm	HOSE OD (max) mm	HOSE OD (max) mm	BEND RADIUS (min)/2/	PROOF PRESSURE bar	ROOM BURST PRESSURE (min) bar	HIGH TEMP BURST (MIN) bar
4	207	5.4	9.1	9.9	161	38.1	414	1,103	827
6	207	7.6	11.7	12.45	268	63.5	414	965	724
8	207	9.9	14.9	15.62	357	73	414	965	724
10	207	12.6	17.8	18.5	482	82.5	414	827	621
12	207	15.6	24.1	25.15	1 036	98.5	414	827	621

NOTE: /1/ Over minimum 300 mm length /2/ Inside of bend Hose of size -16 to -24 on request



R160 High Pressure Hose 210 bar / 3000 PSI

RP160 - Chafe resistant high pressure hose

RP integral sleeve consists of polyester yarns directly braided on the hose, which provides excellent cohesion with the outer braid.

Main characteristics:

- Provides one of the best antiwear protections.
- Resists to solvents, fuels, hydraulic fluids, aeronautic anti corrosion paints and cleaning detergents.
- Provides even diameter when fastening.
- Operating temperature: 54°C +150°C.
- Resists to aging.
- Fire retardant, does not drip.
- Does not affect hose flexibility.

TERM160 - Fire proof high pressure hose

The TERM160 fire proof over-molded hose consists from the extrusion of a silicone composite on the R160 hose. Sleeve corresponds to an FAA and AS 1055 standard. These hoses are qualified according to the most stringent criteria of TSO-C53, TSO-C75 and AS1055 which require 15 minutes resistance to fire with a flow rate of 1 x I.D.² (GPM) *).

Innovative assembly technology: The silicone layer of type TERM hose is separated from the hose and peeled back. Then, when crimping and final check are completed, it is <mark>stuck</mark> back on the hose with the swaging collar previously coated with silicone.

Main characteristics:

- Provides constant and stable diameter for coupling fastening.
- Light weight.
- Acts as vibration dampener.
- Adherence to the hose provides even bending and sustained flexibility.
- Operating temperature : 54°C to +204°C.
- Good resistance to fluids.
- Non age sensitive.



THT Ostrava CZ provides R160 hose assemblies with various fittings. Some samples are on following pages. Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) are available on request.

*) G.P.M. : Gallon per minute.



THIOSTRAVA CZ, a.S. TEFLON HOSES TECHNOLOGIES

R160 37°- JIC Metric Hose Fittings

STRAIGHT



Hose	Fitting Part	Thread	А	В	с	D	E
Hose	Number	(mm)	mm	mm	mm	mm	mm
4	R17404	M12x1	8,5	35	17	15,5	N/A
	R17818	M14x1	8,5	35	19	17,4	N/A
	R18320	M14x1,5	8,5	35	19	17,4	N/A
6	R17530	M16x1	9,5	35,5	19	17,4	N/A
	R18135	M18x1,5	11	37	22	20,5	N/A
0	R17531	M18x1,5	11	40	22	24,2	N/A
ð	R18109	M20x1,5	11	40	24	24,2	N/A
	R18858	M20x1,5	12,8	44	24	24,2	N/A
10	R18111	M22x1,5	13,1	44	27	25,3	N/A
	R17819	M24x1,5	12,8	41	30	30	N/A
12	R18334	M24x1,5	12,8	48	30	33	N/A
12	R17817	M27x1,5	14,3	45	32	33	N/A
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45° ELBOW



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Hose	Fitting Part Number	Thread	A	В	с	D	E
nose		(mm)	mm	mm	mm	mm	mm
4	R17478	M12x1	9,4	43,7	17	12,7	9,5
	R17803	M14x1	8,5		19	15,9	15
6	R17481	M16x1	9,5		19	15,9	15,8
	R18146	M18x1,5	11		22	15,9	15,6
0	R17484	M18x1,5	11	56,9	22	20	14,5
ð	R18263	M20x1,5	11		24	20	16
	R18861	M20x1,5	12,8		24	25	18
10	R17487	M22x1,5	12,4	70	27	25	16,3
	R18264	M24x1,5	12,8		30	25	18,4
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90° ELBOW



Hose	Fitting Part	Thread	A	В	с	D	E		
	Number	(mm)	mm	mm	mm	mm	mm		
4	R17808	M12x1	9,5		17	12,7	22,5		
	R17807	M14x1	8,5		19	15,9	27		
	R17424	M16x1	9,5		19	15,9	26,1		
0	R18149	M18x1,5	11		22	15,9	27,6		
	R18152	M22x1,5	13,1		27	15,9	34,3		
0	R17427	M18x1,5	11	50	22	20	28,7		
0	R18110	M20x1,5	11,1		24	20	28,1		
	R18864	M20x1,5	12,8		24	25	35		
10	R17430	M22x1,5	12,4	60	27	25	32,5		
	R18265	M24x1,5	12,8		30	25	36,8		
12	R17806	M27x1,5	14,3		32		40		



R160 38°- AS1708 Imperial Hose Fittings

STRAIGHT



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Hose	Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
4	Y40004-72	7/16-20	9,4	33	14,3	13,9	N/A
6	Y40006-72	9/16-18	9,5	37,2	17,5	17,4	N/A
8	Y40008-72	3/4-16	11,1	40,8	22,2	20,5	N/A
10	Y40010-72	7/8-14	13,1	42,4	25,4	23,6	N/A
12	Y40012-72	1.1/16-12	14,3	48,4	31,7	30,3	N/A

Mates with AS33514/AS33515 AND AS4375/AS4377

45° ELBOW



Hose	Fitting Part	Thread	А	В	с	D	E
	Number	(in)	mm	mm	mm	mm	mm
4	Y40104-72	7/16-20	9,4	47,3	14,3	12,7	8.8
6	Y40106-72	9/16-18	9,5	50,8	17,5	15,9	12.0
8	Y40108-72	3/4-16	11,1	57,2	22,2	19	14.5
10	Y40110-72	7/8-14	13,1	63,2	25,4	22,2	16.3
12	Y40112-72	1.1/16-12	14,3	73,4	31,7	28,6	17.3

90° ELBOW



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Hose	Fitting Part	Thread	A	В	с	D	E
Hose	Number	(in)	mm	mm	mm	mm	mm
4	Y40204-72	7/16-20	9,4	37,1	14,3	12,7	16.3
6	Y40206-72	9/16-18	9,5	45	17,5	15,9	22.6
8	Y40208-72	3/4-16	11,1	49	22,2	19	28.1
10	Y40210-72	7/8-14	13,1	59,4	25,4	22,2	32.5
12	Y40212-72	1.1/16-12	14,3	68,3	31,7	28,6	35.7

TEFLON HOSES TECHNOLOGIES

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R160 Flareless Imperial Hose Fittings NAS1760

STRAIGHT



Hoco	Fitting Part	Thread	A	В	С	D	E
позе	Number	(in)	mm	mm	mm	mm	mm
4	Y40404-72	7/16-20	9,4	33	14,3	13,9	3.94
6	Y40406-72	9/16-18	9,5	37,2	17,5	17,4	4.17
8	Y40408-72	3/4-16	11,1	40,8	22,2	20,5	4.80
10	Y40410-72	7/8-14	13,1	42,4	25,4	23,6	5.11
12	Y40412-72	1.1/16-12	14,3	48,4	31,7	30,3	5.79

45° ELBOW



Hose	Fitting Part	Thread	А	В	С	D	E
	Number	(in)	mm	mm	mm	mm	mm
4	Y40504-72	7/16-20	6,7	42,3	16	12,7	2.79
6	Y40506-72	9/16-18	8,5	49,3	21	15,9	2.95
8	Y40508-72	3/4-16	9,2	51	22	19	3.38
10	Y40510-72	7/8-14	8,9	53,7	27	22,2	3.63
12	Y40512-72	1.1/16-12	9,1	63,2	32	28,6	4.11

90° ELBOW



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Hose	Fitting Part Number	Thread (in)	A	B	C	D	E
		(11)					
4	Y40604-72	7/16-20	8,1	31,11	14,3	12,7	3.94
6	Y40606-72	9/16-18	8,3	40,07	17,5	15,9	4.17
8	Y40608-72	3/4-16	9,3	47,27	22,2	19	4.80
10	Y40610-72	7/8-14	10	58,07	25,4	22,2	5.11
12	Y40612-72	1.1/16-12	10,7	65,92	31,7	28,6	5.79
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Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.







Specification approvals:

SAE AS620 ISO 7313 TSO C53a Type A for lubrication and fuel application TSO C75 Type IIA-S/P for Hydraulic application TSO C53a Type C, TSO C75 Type IIA-S/P-F & AS1055 Type IIa & Type IIb, Class A & B Class A & B for overmolded hose assemblies RM267, RF267

Titeflex R267 is low-pressure PTFE hose for specialized aerospace applications.

The hose consists of convoluted (tape wrap) PTFE innercore, reinforced with a single layer of CRES 304 wire braid. The convoluted innercore enables R267 hose assemblies to bend to a tighter bend radius, with less force, than smoothbore PTFE hose of similar diameter. Standard fittings are CRES.

Operating pressures range from 1000 PSI (69 Bar) for the smaller diameters to 250 PSI (17 Bar) in the larger diameters.

Fire protection per AS1055 Class A & is assured in form of RF267 hose.

Chafe resistant hoses are available as RP267 - see next page.

Hose construction

Innercore : It consists of tapes wound around a helical matrix. The first layer is a tape of carbon-charged Teflon[®]. The addition of a carbon charge offers good electrical conductivity. The second tape is thicker and consists solely of Teflon[®]. Finally, the last tape consists of a silk fabric mixed with Teflon[®]. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +204°C and an unlimited shelf-life.

Armour : the innercore is reinforced by a braid consisting of type 304 stainless steel wire. The armour consists of a single braid which, when combined with a convoluted innercore, offers a good compromise between pressure strength, light weight and flexibility.

The fittings are progressively swaged to the hose. The fittings (insert, nut and collar) are made of stainless steel. The catalogue provides the connection definitions linked to the most widely used standards, although THT Ostrava CZ is specialized in the design of special fittings or fittings meeting other standards.

	FR De
Progressive-swaged stainless steel f	itting

Teflon[®] Innercore

Positive braid lock

A CONTRACTOR			Contraction of the second s						
HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (MIN) mm	HOSE OD (MIN) mm	HOSE OD (MAX) mm	HOSE WEIGHT/1/ g/m	BEND RADIUS (MIN)/2/ mm	PROOF PRESSURE bar	NEGATIVE PRESSURE mm/Hg	ROOM BURST PRESSURE (MIN) bar
10	69	15.7	21.2	22	327	76.2	138	711	241
12	69	19.9	26.5	27.3	402	95.3	138	711	241
16	69	25.4	32	33	536	127	138	558	241
20	69	31.5	38.4	39.2	716	158.8	138	406	241
24	52	38.1	44.8	45.7	908	190.5	103	305	207
32	17	50.4	58	59.1	1 444	254	34	217	69
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/1/ Over minimum 300 mm length /2/ Inside of bend

Hose of size -16 to -24 on request





RP267 – Chafe resistant medium pressure hose

RP integral sleeve consists of polyester yarns directly braided on the hose, which provides excellent cohesion with the outer braid.

Main characteristics:

- Provides one of the best antiwear protections.
- Resists to solvents, fuels, hydraulic fluids, aeronautic anti corrosion paints and cleaning detergents.
- Provides even diameter when fastening.
- Operating temperature: 54°C +150°C.
- Resists to aging.
- Fire retardant, does not drip.
- Does not affect hose flexibility.

RF267 (RM267) - Fire resistant medium pressure hose

The RF267, RM267 fire proof over-molded hoses consists from the extrusion of a silicone composite on the R267 hose. Sleeve corresponds to an FAA and AS 1055 standard. These hoses are qualified according to the most stringent criteria of TSO-C53, TSO-C75 and AS1055 which require 15 minutes resistance to fire with a flow rate of 1 x I.D.² (GPM) *).

Innovative assembly technology: The silicone layer of type RF hose is separated from the hose and peeled back. Then, when crimping and final check are completed, it is stuck back on the hose with the swaging collar previously coated with silicone.

The silicone sleeve, type RM can be removed from the hose in the crimping area, then when crimping and final check are completed, the stripped area is covered with an over-molded silicone sleeve.

Main characteristics:

- Provides constant and stable diameter for coupling fastening.
- Light weight.
- Acts as vibration dampener.
- Adherence to the hose provides even bending and sustained flexibility.
- Operating temperature : 54°C to +204°C.
- Good resistance to fluids.
- Non age sensitive.



Hose specifications R267/RP267/RF267

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HOSE SIZE	HOSE PART NUMBER	OD Max mm	WT g/m	OD Cuff mm	Length Cuff mm		HOSE SIZE	HOSE PART NUMBER	OD Max mm	WT g/m	OD Cuff mm	Length Cuff mm
	R267	21,97	327					R267	39,17	716		
10	RP267	24,00	387				20	RP267	41,33	813		
	RF267	30,58	744	32,8	31,8			RF267	44,86	1250	49,8	44,5
	R267	27,31	402			_		R267	45,72	908		
12	RP267	29,46	469				24	RP267	48,90	1031		
	RF267	35,33	893	40,6	35,6			RF267	51,21	1458	57,4	50,8
	R267	33,02	536					R267	59,06	1444		
16	RP267	35,13	624				32	RP267	61,09	1589		
	RF267	38,96	1027	43,4	38,1		RM267	65,13	2232	66,3	73,0	

THT Ostrava CZ produces R267 hose assemblies with various fittings. Some examples are on the following pages. Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) are available on request.

*) G.P.M. : Gallon per minute.



R267 37°- JIC Metric Hose Fittings

STRAIGHT



Hose	Fitting Part	Thread	Α	В	С	D	E
nose	Number	(mm)	mm	mm	mm	mm	mm
10	R17851	M24x1,5	12,7	40	30	29,7	N/A
10	R17856	M27x1,5	14,3	42	32	32	N/A
	R17853	M27x1,5	14,3	44	32	35	N/A
12	R17854	M28x1,5	14,3	44	32	35	N/A
	R17852	M33x2	15,2	45	38	39,6	N/A
	R18262	M28x1,5	14,3	45	32	38	N/A
16	R17855	M30x1,5	15	45	36	38	N/A
10	R17857	M33x2	15,2	45	38	41,8	N/A
	R17861	M39x2	15,7	46	46	45	N/A
20	R17859	M39x2	15,7	58,3	46	45	N/A
24	R17860	M48x2	19,4	58,3	54	58	N/A

45° ELBOW



Hose	Fitting Part	Thread	A	В	С	D	E
	Number	(mm)	mm	mm			mm
10	R17836	M24x1,5	12,7	61,5	30	24,1	16,3
10	R17841	M27x1,5	14,3	61,5	32	24,1	17,2
12	R17837	M33x2	15,2	70,4	38	32,5	18,6
16	R17842	M33x2	15,2	77,5	38	37,3	22
20	R19395-20	M39x2	15,7		46	43,2	25
24	R19395-24	M48x2	19,4		54	50,8	27

90° ELBOW



Hose	Fitting Part	Thread	A	В	С	D	E
11030	Number	(mm)	mm	mm	mm	mm	mm
10	R17835	M24x1,5	12,7	50,8	30	24,1	32,5
10	R18319	M27x1,5	14,3	50,8	32	24,1	35,7
12	R17834	M27x1,5	14,3	64,3	32	32,5	35,7
12	R17838	M33x2	15,2	64,3	38	32,5	37,5
16	R17845	M33x2	15,2	72,9	38	37,3	48
20	R19397-20	M39x2	15,7		46	43,2	53,8
24	R19397-24	M48x2	19,4		54	50,8	60,5

Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.



R267 38°- AS1708 Imperial Hose Fittings

STRAIGHT



Hose	Fitting Part	Thread	Α	В	С	D	E
	Number	(in)	mm	mm	mm	mm	mm
10	Y40010-39	.8750-14	13.1	40.1	25.4	24.1	N/A
12	Y40012-39	1.0625-12	14.3	44.2	31.8	32.5	N/A
16	Y40016-39	1.3125-12	15.7	45.5	38.1	37.3	N/A
20	Y40020-25	1.6250-12	15.7	58.3	46.0	43.2	N/A
24	Y40024-25	1.8750-12	19.4	58.3	54.0	50.8	N/A
32	Y40032-25	2.5000-12	23.8	75.4	69.9	64.0	N/A

P

45° ELBOW



1	Here	Fitting Part	Thread	А	В	С	D	E
	поѕе	Number	(in)	mm	mm	mm	mm	mm
	10	Y40110-39	.8750-14	13.1	61.5	25.4	24.1	16.3
	12	Y40112-39	1.0625-12	14.3	70.4	31.8	32.5	17.3
1	16	Y40116-39	1.3125-12	15.7	77.5	38.1	37.3	20.1
1	20	Y40120-25	1.6250-12	15.7	91.6	46.0	43.2	23.6
-	24	Y40124-25	1.8750-12	19.4	100.2	54.0	50.8	26.7
1	32	Y40132-25	2.5000-12	23.8	123.1	69.9	65.0	33.4

90° ELBOW



						1000			
	Hose Fitting Part		Thread	Α	В	С	D	E	
		Number	(in)	mm	mm	mm	mm	mm	
	10	Y40210-39	.8750-14	13.1	50.8	25.4	24.1	32.5	
Ì	12	Y40212-39	1.0625-12	14.3	64.3	31.8	32.5	35.7	
1	16	Y40216-39	1.3125-12	15.7	72.9	38.1	37.3	43.4	
	20	Y40220-39	1.6250-12	15.7	86.2	46.0	43.2	51.9	
i	24	Y40224-39	1.8750-12	19.4	92.8	54.0	50.8	60.0	
	32	Y40232-39	2.5000-12	23.8	119.1	69.9	64.9	77.0	
1					1. 1.	13			

R267 Flareless Imperial Hose Fittings NAS1760

STRAIGHT

Mates with AS33514/AS33515 AND AS4375/AS4377



Hasa	Fitting Part	Thread	A	В	С	D	E
nose	Number	(in)	mm	mm	mm	mm	mm
10	Y40410-30	.8750-14	10.1	43.4	25.4	24.1	NA
12	Y40412-30	1.0625-12	10.7	48.0	31.8	32.5	NA
16	Y40416-30	1.3125-12	10.8	50.8	38.1	37.3	NA
20	Y40420-30	1.6250-12	11.5	62.9	46.0	43.2	NA
24	Y40424-30	1.8750-12	11.4	66.7	54.0	50.8	NA
32	Y40432-30	2.5000-12	7.9	82.8	69.9	*	NA
				1 14		and the second	

45° ELBOW



	Here	Fitting Part	Thread	A	В	С	D	E
P	позе	Number	(in)	mm	mm	mm	mm	mm
	10	Y40510-30	.8750-14	10.1	64.5	25.4	24.1	18.7
	12	Y40512-30	1.0625-12	10.7	72.9	31.8	32.5	18.7
Î	16	Y40516-30	1.3125-12	10.8	81.0	38.1	37.3	23.8
	20	Y40520-30	1.6250-12	11.5	94.0	46.0	43.2	26.7
	24	Y40524-30	1.8750-12	11.4	102.4	54.0	50.8	32.4
		the second se	100				and the second second	

90° ELBOW



	Hose	Fitting Part	Thread A		В	С	D	E
1		Number	(in)	mm	mm	mm	mm	mm
	10	Y40610-30	.8750-14	10.1	55.6	25.4	24.1	35.8
-	12	Y40612-30	1.0625-12	10.7	66.3	31.8	32.5	37.7
R	16	Y40616-30	1.3125-12	10.8	77.0	38.1	37.3	48.6
1	20	Y40620-30	1.6250-12	11.5	86.4	46.0	43.2	56.4
-	24	Y40624-30	1.8750-12	11.4	93.0	54.0	50.8	68.3

Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.







R101 Medium Pressure Hose 105 bar / 1500 PSI

Specification approvals:

MIL-DTL-25579 SAE AS1946 MIL-DTL-27267 MS8005 & MS8006 TSO C53a for lubrication and fuel application TSO C75 for hydraulic application AS1055 Type IIa & Type IIb, Class A & B for hose assemblies TERM101 & RF101.

A medium pressure aerospace hose assembly qualified to to AS1946 and MIL-DTL- 25579. The hose consists of an extruded smoothbore PTFE innercore, reinforced with CRES 304 wire braid in a single layer on sizes 04 - 12, and a double layer (Z) on sizes 16 - 24. Operating pressures range from 1500 PSI (104 Bar) in the small diameters to 1000 PSI (69 Bar) in the largest diameters. Titeflex also offers a special small diameter not listed in AS1946: size -03. PTFE provides excellent chemical resistance over a temperature range of -54°C to +232°C with an unlimited shelf life.

Standard fittings are CRES.

Fire protection per AS1055 Class A & B is assured in form of TERM101 hose.

Chafe resistant hose are available as RP101 hose - see next page.

Hose construction

Innercore: It consists of extruded Teflon[®] powder charged with carbon. The addition of a carbon charge before extrusion offers good electrical conductivity. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +232°C and an unlimited shelf-life.

Armour : The innercore is reinforced by a braid consisting of type 304 stainless steel wire. For the ND 4 (-2 1/2) to ND 20 (-12) the armour consists of a single braid, while for the ND 25 (-16) to ND 40 (-24) it consists of a double braid (reference followed by

the letter Z).

The fittings are swaged to the hose by a progressive swaging method. The fittings (insert, nut and collar) are made of stainless steel. The catalogue provides the connection definitions linked to the most widely used standards, although THT Ostrava CZ is specialized in the design of special fittings or fittings meeting other standards.

HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (min) mm	HOSE OD (min) mm	HOSE OD (max) mm	HOSE WEIGHT/1/ g/m	BEND RA- DIUS (min)/2/ mm	PROOF PRESSURE bar	NEGATIVE PRESSURE mm/Hg	ROOM BURST PRESSURE (min) bar	HIGH TEMP BURST (min) bar
3	103	2.79	5.9	7.2	89	51	207	711	827	483
4	103	4.8	7.7	8.7	125	51	207	711	827	483
5	103	5.97	9.3	10.3	143	51	207	711	689	448
6	103	7.87	11.2	11.91	179	102	207	711	621	448
8	103	9.93	13.9	14.86	232	117	207	711	552	414
10	103	12.32	16.3	17.45	304	140	207	711	483	379
12	69	15.62	19.5	20.62	353	165	138	508	345	241

NOTE:

/1/ Over minimum 300 mm length /2/ Inside of bend Hose size -16 to -24 on request



R101 Medium Pressure Hose 105 bar / 1500 PSI

RP101 – Chafe resistant medium pressure hose

RP integral sleeve consists of polyester yarns directly braided on the hose, which provides excellent cohesion with the outer braid.

Main characteristics:

- Provides one of the best antiwear protections.
- Resists to solvents, fuels, hydraulic fluids, aeronautic anti corrosion paints and cleaning detergents.
- Provides even diameter when fastening.
- Operating temperature: 54°C +150°C.
- Resists to aging.
- Fire retardant, does not drip.
- Does not affect hose flexibility.

TERM101 - Fire resistant medium pressure hose

The TERM101 fire proof over-molded hoses consists from the extrusion of a silicone composite on the R101 hose. Sleeve corresponds to an FAA and AS 1055 standard. These hoses are qualified according to the most stringent criteria of TSO-C53, TSO-C75 and AS1055 which require 15 minutes resistance to fire with a flow rate of 1 x I.D.² (GPM) *).

Innovative assembly technology: The silicone layer of type TERM hose is separated from the hose and peeled back. Then, when crimping and final check are completed, it is stuck back on the hose with the swaging collar previously coated with silicone.



Main characteristics:

- Provides constant and stable diameter for coupling fastening.
- Light weight.
- Acts as vibration dampener.
- Adherence to the hose provides even bending and sustained flexibility.
- Operating temperature : 54°C to +232°C.
- Good resistance to fluids.
- Non age sensitive.

Hose specifications R101/RP101/TERM101

HOSE SIZE	HOSE PART NUMBER	OD Max mm	WT g/m	OD Cuff mm	Length Cuff mm		HOSE SIZE	HOSE PART NUMBER	OD Max mm	WT g/m	OD Cuff mm	Length Cuff mm
	R101	8,7	125					R101	14,86	232		
4	RP101	10,9	144				8	RP101	16,9	253		
	TERM101	16,3	274	18,5	20,1			TERM101	22,6	475	25,9	26,4
	R101	10,3	143			_		R101	17,45	304		
5	RP101	12,7	153				10	RP101	19,6	320		
	TERM101	17,9	318	20,6	22,3			TERM101	25,8	606	29,5	27,9
	R101	11,91	179					R101	20,62	353		
6	RP101	14,2	189			1	12	RP101	22,5	406		
	TERM101	19,5	372	22,9	23,9			TERM101	29,0	729	33,3	32,3

THT Ostrava CZ produces R101 hose assemblies with various fittings. Some examples are on the following pages. Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) are available on request.

*) G.P.M. : Gallon per minute.



R101 38°- AS1708 Imperial Hose Fittings

STRAIGHT



Hose	Fitting Part	Thread	Α	В	С	D	E
	Number	<u>(in)</u>	mm	mm	mm	mm	mm
04	Y40004-50	.4375-20	9.4	28.3	14.3	14.0	N/A
05	Y40005-50	.5000-20	9.5	29.8	15.9	16.0	N/A
06	Y40006-9	.5625-18	9.5	33.3	17.5	17.8	N/A
08	Y40008-9	.7500-16	11.1	37.3	22.2	21.1	N/A
10	Y40010-9	.8750-14	13.1	39.9	25.4	24.6	N/A
12	Y40012-9	1.0625-12	14.3	43.9	31.8	29.7	N/A
	Hose 04 05 06 08 10 12	Fitting Part Number 04 Y40004-50 05 Y40005-50 06 Y40006-9 08 Y40008-9 10 Y40010-9 12 Y40012-9	Fitting Part Number Thread (in) 04 Y40004-50 .4375-20 05 Y40005-50 .5000-20 06 Y40006-9 .5625-18 08 Y40008-9 .7500-16 10 Y40010-9 .8750-14 12 Y40012-9 1.0625-12	Fitting Part Number Thread (in) A mm 04 Y40004-50 .4375-20 9.4 05 Y40005-50 .5000-20 9.5 06 Y40006-9 .5625-18 9.5 08 Y40008-9 .7500-16 11.1 10 Y40010-9 .8750-14 13.1 12 Y40012-9 1.0625-12 14.3	Fitting Part Number Thread (in) A B 04 Y40004-50 .4375-20 9.4 28.3 05 Y40005-50 .5000-20 9.5 29.8 06 Y40006-9 .5625-18 9.5 33.3 08 Y40008-9 .7500-16 11.1 37.3 10 Y40010-9 .8750-14 13.1 39.9 12 Y40012-9 1.0625-12 14.3 43.9	Fitting Part Number Thread (in) A B C 04 Y40004-50 .4375-20 9.4 28.3 14.3 05 Y40005-50 .5000-20 9.5 29.8 15.9 06 Y40006-9 .5625-18 9.5 33.3 17.5 08 Y40008-9 .7500-16 11.1 37.3 22.2 10 Y40010-9 .8750-14 13.1 39.9 25.4 12 Y40012-9 1.0625-12 14.3 43.9 31.8	Fitting Part Number Thread (in) A B C D 04 Y40004-50 .4375-20 9.4 28.3 14.3 14.0 05 Y40005-50 .5000-20 9.5 29.8 15.9 16.0 06 Y40006-9 .5625-18 9.5 33.3 17.5 17.8 08 Y40008-9 .7500-16 11.1 37.3 22.2 21.1 10 Y40010-9 .8750-14 13.1 39.9 25.4 24.6 12 Y40012-9 1.0625-12 14.3 43.9 31.8 29.7

C. State

45° ELBOW



Hasa	Fitting Part	Thread	A	В	С	D	E
позе	Number	(in)	mm	mm	mm	mm	mm
04	Y40104-50	.4375-20	9.4	35.7	14.3	14.0	8.8
05	Y40105-50	.5000-20	9.5	40.0	15.9	16.0	10.5
06	Y40106-12	.5625-18	9.5	48.0	17.5	17.8	12.0
08	Y40108-12	.7500-16	11.1	55.6	22.2	21.1	14.5
10	Y40110-12	.8750-14	13.1	61.2	25.4	24.6	16.3
12	Y40112-12	1.0625-12	14.3	69.9	31.8	29.7	17.3

90° ELBOW



						1
Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
Y40204-50	.4375-20	9.4	32.1	14.3	14.0	16.3
Y40205-50	.5000-20	9.5	33.5	15.9	16.0	19.6
Y40206-12	.5625-18	9.5	41.4	17.5	17.8	21.9
Y40208-12	.7500-16	11.1	48.0	22.2	21.1	26.3
Y40210-12	.8750-14	13.1	52.3	25.4	24.6	32.5
Y40212-12	1.0625-12	14.3	64.0	31.8	29.7	35.7
	Fitting Part Number Y40204-500 Y40205-500 Y40206-12 Y40208-12 Y40210-12 Y40212-12	Fitting Part Number Thread (in) Y40204-50 .4375-20 Y40205-50 .5000-20 Y40206-12 .5625-18 Y40208-12 .7500-16 Y40210-12 .8750-14 Y40212-12 1.0625-12	Fitting Part Number Thread (in) A mm Y40204-50 .4375-20 9.4 Y40205-50 .5000-20 9.5 Y40206-12 .5625-18 9.5 Y40208-12 .7500-16 11.1 Y40210-12 .8750-14 13.1 Y40212-12 1.0625-12 14.3	Fitting Part Number Thread (in) A mm B mm Y40204-50 .4375-20 9.4 32.1 Y40205-50 .5000-20 9.5 33.5 Y40206-12 .5625-18 9.5 41.4 Y40208-12 .7500-16 11.1 48.0 Y40210-12 .8750-14 13.1 52.3 Y40212-12 1.0625-12 14.3 64.0	Fitting Part Number Thread (in) A mm B mm C mm Y40204-50 .4375-20 9.4 32.1 14.3 Y40205-50 .5000-20 9.5 33.5 15.9 Y40206-12 .5625-18 9.5 41.4 17.5 Y40208-12 .7500-16 11.1 48.0 22.2 Y40210-12 .8750-14 13.1 52.3 25.4 Y40212-12 1.0625-12 14.3 64.0 31.8	Fitting Part Number Thread (in) A mm B mm C mm D mm Y40204-50 .4375-20 9.4 32.1 14.3 14.0 Y40205-50 .5000-20 9.5 33.5 15.9 16.0 Y40206-12 .5625-18 9.5 41.4 17.5 17.8 Y40208-12 .7500-16 11.1 48.0 22.2 21.1 Y40210-12 .8750-14 13.1 52.3 25.4 24.6 Y40212-12 1.0625-12 14.3 64.0 31.8 29.7

Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.



R101 Flareless Imperial Hose Fittings NAS1760

STRAIGHT



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Hose	Fitting Part	Thread	Α	В	С	D	E
nose	Number	(in)	mm	mm	mm	mm	mm
04	Y40404-50	.4375-20	8.1	29.6	14.3	14.0	N/A
05	Y40405-50	.5000-20	7.9	31.2	15.9	16.0	N/A
06	Y40406-15	.5625-18	8.3	34.5	17.5	17.8	N/A
08	Y40408-15	.7500-16	9.3	39.4	22.2	21.1	N/A
10	Y40410-15	.8750-14	10.1	43.2	25.4	24.6	N/A
12	Y40412-15	1.0625-12	10.7	47.8	31.8	29.7	N/A

Mates with AS33514/AS33515 AND AS4375/AS4377

45° ELBOW



Hose	Fitting Part	Thread	Α	В	С	D	E
	Number	<u>(in)</u>	mm	mm	mm	mm	mm
04	Y40504-50	.4375-20	8.1	40.3	14.3	14.0	10.6
05	Y40505-50	.5000-20	7.9	41.1	15.9	16.0	11.7
06	Y40506-15	.5625-18	8.3	51.6	17.5	17.8	13.8
08	Y40508-15	.7500-16	9.3	57.4	22.2	21.1	15.3
10	Y40510-15	.8750-14	10.1	66.0	25.4	24.6	18.7
12	Y40512-15	1.0625-12	10.7	74.7	31.8	29.7	18.7

90° ELBOW



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	Hose	Fitting Part	Thread	A	В	С	D	E
		Number	<u>(in)</u>	mm	mm	mm	mm	mm
	04	Y40604-50	.4375-20	8.1	30.6	14.3	14.0	18.9
Ì	05	Y40605-50	.5000-20	7.9	33.5	15.9	16.0	21.3
1	06	Y40606-15	.5625-18	8.3	43.2	17.5	17.8	25.3
ų	08	Y40608-15	.7500-16	9.3	49.5	22.2	21.1	29.2
i	10	Y40610-15	.8750-14	10.1	57.4	25.4	24.6	35.8
	12	Y40612-15	1.0625-12	10.7	67.3	31.8	29.7	37.7
- 10		and the second se	Contraction of the local sectors of the local secto		and the second second second	And the second se		and the second se

TEFLON HOSES TECHNOLOGIES

Specification approvals:

AS1227 class 2

Compatible with FDA requirements for use with drinkable water systems Complies with FAA requirements for cab equipment

Titeflex R270 low-pressure PTFE hose with non-metallic braid for specialized aerospace applications. The hose consists of convoluted (tape wrap) PTFE innercore, similar to the R270 hose, except the R270 is reinforced with a braid of Nomex[®] instead of CRES. This construction provides an exceptionally tight bend radius, and light weight. Standard fittings are aluminum. Operating pressures range from 300 PSI (21 Bar) in the smaller diameters to 200 PSI (14 Bar) in the larger diameters. Fire protection is available with AS1055 Class A slip-on AS1072 firesleeve. Popular applications for the R270 hoses include breathing oxygen, and electronic cooling fluids.

Hose construction

Innercore: It consists of tapes wound around a helical matrix. The first layer is a tape of carbon-charged Teflon[®]. The addition of a carbon charge offers good electrical conductivity. The second tape is thicker and consists solely of Teflon[®]. Finally, the last tape consists of a silk fabric mixed with Teflon[®]. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +135°, and an unlimited shelf-life.

Armour : The innercore is reinforced by a braid consisting of green Nomex[®] nylon fibres. The armour consists of a single braid which, when it is combined with a convoluted innercore, offers a good compromise between a very light weight and a good flexibility.

The fittings are progressively swaged to the hose. The fittings (insert, nut and collar) are made either in stainless steel or aluminium alloy. The catalogue provides the connection definitions linked to the most widely used standards, although THT Ostrava CZ is specialized in the design of special fittings or fittings meeting other standards.

Progressive-swaged stainless steel fitting



			Posit	tive braid loc	:k 🛛					
	31	1215	- 14		32	T			a	
HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (min) mm	HOSE OD (min) mm	HOSE OD (max) mm	HOSE WEIGHT/1/ g/m	BEND RA- DIUS (min)/2/ mm	PROOF PRESSURE bar	NEGATIVE PRESSURE mm/Hg	ROOM BURST PRESSURE (min) bar	HIGH TEMP BURST (min) bar
4	21	7.1	11.2	11.8	67	12.7	41	711	83	63
6	21	9.2	13.7	14.5	91	19.1	41	711	83	63
8	17	13.2	18.8	19.6	185	25.4	34	711	69	52
10	17	15.4	21	21.8	202	38.1	34	711	69	52
12	14	19.6	26.8	27.7	274	50.8	28	711	55	41
16	14	25	32.3	33.3	357	76.2	28	217	55	41

/1/ Over minimum 300 mm length

/2/ Inside of bend

Hose size -16 to -24 on request



NOTE:

STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



				the second second			and the second s
Hose	Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
04	Y40004-39	.4375-20	9.4	26.7	14.3	14.0	N/A
06	Y40006-39	.5625-18	9.5	32.5	17.5	16.5	N/A
08	Y40008-39	.7500-16	11.1	36.6	22.2	21.8	N/A
10	Y40010-39	.8750-14	13.1	40.1	25.4	24.1	N/A
12	Y40012-39	1.0625-12	14.3	44.2	31.8	32.5	N/A
16	Y40016-39	1.3125-12	15.7	45.5	38.1	37.3	N/A

45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



						 1. 		
Н	ose	Fitting Part	Thread	Α	В	С	D	E
		Number	(in)	mm	mm	mm	mm	mm
()4	Y40104-39	.4375-20	9.4	36.6	14.3	14.0	8.8
(06	Y40106-39	.5625-18	9.5	47.2	17.5	16.5	12.0
()8	Y40108-39	.7500-16	11.1	55.4	22.2	21.8	14.5
1	10	Y40110-39	.8750-14	13.1	61.5	25.4	24.1	16.3
1	12	Y40112-39	1.0625-12	14.3	70.4	31.8	32.5	17.3
1	16	Y40116-39	1.3125-12	15.7	77.5	38.1	37.3	20.1

90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



			1001					
	Hose	Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
	04	Y40204-39	.4375-20	9.4	31.5	14.3	14.0	16.3
	06	Y40206-39	.5625-18	9.5	39.6	17.5	16.5	22.6
	08	Y40208-39	.7500-16	11.1	47.0	22.2	21.8	28.1
	10	Y40210-39	.8750-14	13.1	50.8	25.4	24.1	32.5
i	12	Y40212-39	1.0625-12	14.3	64.3	31.8	32.5	35.7
1	16	Y40216-39	1.3125-12	115.7	72.9	38.1	37.3	43.4

NOTE: Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.

R154 Ultra High Pressure Hose 280 bar / 4000 PSI

Specification approvals:

SAE AS614 AS4098 **ISO 9938**

Titeflex R154 is a heavy duty 4000psi (276 bar) aerospace hose assembly qualified to AS614. The hose consists of an extruded smoothbore PTFE innercore, reinforced with multiple layers of CRES 304 wire braid. The PTFE innercore is conductive and provides excellent chemical resistance through a temperature range of -54°C to +204°C with unlimited shelf life. The rugged R154 hose is especially suited to applications with significant impulsing, and outputs from hydraulic or pneumatic pumps. Standard fittings are CRES. Fire protection per AS1055 Class A & B can be either integral, or slip-on AS1072 firesleeve. Chafe sleeves are available in a variety of integral or slip-on materials.

Hose construction

Innercore : It consists of extruded Teflon[®] powder charged with carbon. The addition of a carbon charge before extrusion offers good electrical conductivity. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +204°C, and an unlimited shelf-life.

Armour: the innercore is reinforced by several braids consisting of type 304 stainless steel controlled tension wires. For the ND 6 (-4) and ND 10 (-06) the armour consists of a first braid then of two superimposed coiled braids and of a last braid. For the ND 12 (-08) to ND 25 (-16) the armour consists of a first braid then four superimposed coiled braids and a last braid.

The fittings are swaged to the hose using a progressive swaging method. The fittings are made of stainless steel (insert, nut and collar); regarding titanium fittings (insert and titanium nut, stainless steel collar) please call our technical department. The catalogue provides the connection definitions linked to the most widely used standards, although THT Ostrava CZ is specialised in the design of special fittings or fittings meeting other standards.

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Prog	Progressive-swaged stainless steel fitting spiral wrap N 1 Teflon [®] Innercore Stainless steel Niner braid Stainless steel wire Stainless steel wire Stainless steel wire spiral wrap N 2											
HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (min) mm	HOSE OD (min) mm	HOSE OD (max) mm	HOSE WEIGHT/1/ g/m	BEND RA- DIUS (min)/1/ mm	PROOF PRESSURE bar	NEGATIVE PRESSURE mm/Hg	ROOM BURST PRESSURE (min) bar	HIGH TEMP BURST (min) bar		
4	276	5.4	11.4	12.6	393	76.2	552	1 103	827	276		
6	276	7.6	14.1	15.7	661	127	552	1 1 2 0	827	276		
8	276	9.9	18.3	20.8	804	146.1	552	1 103	827	276		
10	276	12.3	21.6	24.1	1 250	165.1	552	1 103	827	276		
12	276	15.3	26.2	27.9	1 875	196.9	552	1 103	827	276		
16	276	21.6	30.7	36.1	3 036	244.5	552	1 103	827	276		
20	276	28	41.7	42.7	3 530	305	552	1 103	827	276		
NOTE:			2	11000				Constanting of the				

/1/ Over minimum 300 mm length

/2/ Inside of bend

NOTE: Hoses R154 are manufactured in cooperation with Titeflex Europe



THIOstrava CZ,a.s.

STRAIGHT FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



Haco	Fitting Part	Thread	Α	В	С	D	E
позе	Number	(in)	mm	mm	mm	mm	mm
04	Y40004-42	.4375-20	9.4	35.2	14.3	22.2	N/A
06	Y40006-42	.5625-18	9.5	37.1	17.5	25.4	N/A
08	Y40008-42	.7500-16	11.1	46.0	22.2	30.5	N/A
10	Y40010-42	.8750-14	13.1	57.7	25.4	35.7	N/A
12	Y40012-42	1.0625-12	14.3	58.9	31.8	42.8	N/A
16	Y40016-42	1.3125-12	15.7	66.3	38.1	50.8	N/A
20	Y40020-42	1.6250-12	15.7	80.0	46.0	54.0	N/A

45° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



A Distances					A. 199		
Hose	Fitting Part	Thread	Α	В	С	D	E
Number		(in)	mm	mm	mm	mm	mm
04	Y40104-42	.4375-20	9.4	47.6	14.3	22.2	8.8
06	Y40106-42	.5625-18	9.5	52.2	17.5	25.4	12.0
08	Y40108-42	.7500-16	11.1	64.1	22.2	30.5	14.5
10	Y40110-42	.8750-14	13.1	81.3	25.4	35.7	16.3
12	Y40112-42	1.0625-12	14.3	87.6	31.8	42.8	17.3
16	Y40116-42	1.3125-12	15.7	98.3	38.1	50.8	20.1
20	Y40120-42	1.6250-12	15.7	113.3	46.0	54.0	23.5

90° ELBOW FLARED FITTINGS - MATES WITH AS33656 / AS4395 AND AS33657 / AS4396



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1	Hose	Fitting Part	Thread	Α	B	С	D	E
ì	11050	Number	(in)	mm	mm	mm	mm	mm
	04	Y40204-42	.4375-20	9.4	41.7	14.3	22.2	16.3
	06	Y40206-42	.5625-18	9.5	45.5	17.5	25.4	22.6
	08	Y40208-42	.7500-16	11.1	56.4	22.2	30.5	28.1
	10	Y40210-42	.8750-14	13.1	73.7	25.4	35.7	32.5
i	12	Y40212-42	1.0625-12	14.3	79.6	31.8	42.8	35.7
	16	Y40216-42	1.3125-12	15.7	91.3	38.1	50.8	46.6
	20	Y40220-42	1.6250-12	15.7	109.5	46.0	54.0	55.8
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NOTE: 1) Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.

2) Hoses R154 are manufactured in cooperation with Titeflex Europe



SA500 Ultra high Pressure Hose 350 bar / 5000 PSI

Specification approvals:

AS5951 AS1975 AS1339

SA500 hose: lightweight 350 Bar non-metallic aerospace hose qualified to AS5951. The hose consists of an extruded smoothbore conductive PTFE innercore, reinforced with Kevlar[®] para-aramid braid and covered by an integral Cordura[®] chafe sleeve. Standard fittings are titanium, however CRES fittings are also available. PTFE provides excellent chemical resistance and unlimited shelf life. The SA500 is ideal for weight-critical 207 Bar applications within the temperature range of -54°C to +135°C. Fire protection is available per AS1055 Class A with slip-on AS1072 firesleeve. Hybrid assemblies combining flex hose with multi-bend tube are a Titeflex specialty and provide improved vibration dampening, ease of installation, and maintenance over strictly rigid tube.

Hose construction

Innercore : It consists of extruded Teflon[®] powder charged with carbon. The addition of a carbon charge before extrusion offers good electrical conductivity. The Teflon[®] is a PTFE (polytetrafluoroethylene), whose main characteristics are excellent resistance to chemicals, the ability to be used over a temperature range between -54°C and +135°C, and an unlimited shelf-life.

Armour : The innercore is reinforced by several layers of braid comprising controlled tension Kevlar[®] fibres. In order to protect the Kevlar[®] from chemical and ultraviolet attack, a Teflon[®] tape is wrapped around it. A final braid consisting of controlled tension Cordura[®] Fibres offers the hose excellent abrasion resistance.

The fittings are swaged to the hose using a progressive radial swaging method (also called crimping). There are two fitting families. The hose equipped with titanium alloy fittings (titanium insert, nut, hexagonal ring, stainless steel crimping collar) was developed and tested to comply with the requirements of standards AS1975 and AS5951. The hose equipped with stainless steel fittings (stainless steel insert, nut, hexagonal ring and crimping collar) was developed and tested to comply with the requirements of standards AS1339, AS1975 and AS 5951 (except for impulse testing with torsion). The catalogue provides the connection definitions linked to the most widely used standards, although Titeflex is specialized in the design of special fittings or fittings meeting other standards.



Progressive-swaged stainless steel fitting

Teflon[®] Innercore



Positive braid lock

UNIBRAID® reinforcement

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HOSE SIZE	OPERATING PRESSURE bar	HOSE ID (min) mm	HOSE OD (min) mm	HOSE OD (max) mm	HOSE WEIGHT/1/ g/m	BEND RA- DIUS (min)/2/ mm	PROOF PRESSURE bar	NEGATIVE PRESSURE mm/Hg	ROOM BURST PRESSURE (min) bar	HIGH TEMP BURST (min) bar
4	350	5.38	11.18	12.19	113	38.1	701	1 401	1 051	350
6	350	7.57	13.34	14.35	161	63.5	701	1 401	1 051	350
8	350	9.93	19.05	23.5	357	73.2	701	1 401	1 051	350
10	350	12.45	21.72	22.73	363	82.6	701	1 401	1 051	350
12	350	15.29	24.89	29.97	572	101.6	701	1 401	1 051	350

NOTE:

/1/ Over minimum 300 mm length

/2/ Inside of bend

NOTE: Hoses SA500 are manufactured in cooperation with Titeflex Europe



STRAIGHT FLARELESS FITTINGS - MATES WITH AS5827



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Hose	Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
04	Y40404-35	.4375-20	8.1	48.8	14.2	0.0	N/A
06	Y40406-35	.5625-18	8.3	54.9	17.5	0.0	N/A
08	Y40408-35	.7500-16	9.3	63.8	22.4	0.0	N/A
10	Y40410-35	.8750-14	10.1	78.5	25.4	0.0	N/A
12	Y40412-35	1.0625-12	10.7	102.6	31.8	0.0	N/A

45°ELBOW FLARELESS FITTINGS - MATES WITH AS5827



Hose	Fitting Part Number	Thread (in)	A mm	B mm	C mm	D mm	E mm
04	Y40404-35	.4375-20	8.1	60.2	14.2	*	10.0
06	Y40406-35	.5625-18	8.3	64.8	17.5	*	11.0
08	Y40408-35	.7500-16	9.3	74.2	22.4	*	14.0
10	Y40410-35	.8750-14	10.1	89.7	25.4	*	14.4
12	Y40412-35	1.0625-12	10.7	116.8	31.8	*	17.4

90°ELBOW FLARELESS FITTINGS - MATES WITH AS5827



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Hose	Fitting Part	Thread	Α	В	С	D	E
Hose	Number	(in)	mm	mm	mm	mm	mm
04	Y40504-35	.4375-20	8.1	38.9	14.2	*	20.4
06	Y40506-35	.5625-18	8.3	43.7	17.5	*	22.2
08	Y40508-35	.7500-16	9.3	49.3	22.4	*	26.8
10	Y40510-35	.8750-14	10.1	62.7	25.4	*	31.5
12	Y40512-35	1.0625-12	10.7	82.8	31.8	*	34.5
	-		-	1 13			

NOTE: 1) Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) on request.

2) Hoses R154 are manufactured in cooperation with Titeflex Europe



Industrial PTFE Hoses

ADVANTAGES OF PTFE

- Chemical Resistant PTFE creates a virtually universal hose which handles the broadest range of media.
- Temperature Resistant From cryogenics to steam all in one hose.
- Low Friction Low pressure drop because deposits do not accumulate on the innercore. Easy to clean permitting use of one hose for several services.
- Flexible Withstands continuous flexing and vibration without failure from flex fatigue.
- Moisture Resistant Ideal for pneumatic systems requiring low dew point functionality.
- Chemically Inert Will not break down or deteriorate in service.
- Non-Aging Unlimited shelf life because properties do not change with age or exposure to weather.

Hoses feature PTFE which provides the following physical characteristics:

Tensile strength	
Elongation	
Dielectric strength	
Softening point	

PTFE FLUOROCARBON AS A HOSE MATERIAL

Polytetrafluoroethylene (PTFE) is an engineered fluoropolymer. Outstanding resistance to chemicals is one of it's primary attributes. A broad temperature range -73°C to 260°C make this hose material suitable for the majority of fluid and ambient temperature conditions found in industry. An extremely low coefficient of friction, (0.05 to 0.20), provides a non-stick surface. Water absorption of PTFE is negligible, less than 0.01% by ASTM test. And, it is FDA-approved for food and pharmaceutical use.

TYPICAL TITEFLEX HOSE APPLICATIONS

PTFE hoses are used throughout industry for process,

transfer and hydraulic and pneumatic uses. Applications centering on the most demanding fluid transfer requirements, whether the media be corrosive, caustic or food grade, under extreme pressure, temperature and flexing conditions, are routinely handled and serviced by PTFE hoses;

They include:

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Chemicals	Automotive	Molten Plastics	Power Generation
Chlorine	Steel/Aluminum	Engines	Pumps
Hot Melt	Pulp & Paper	Tire Presses	Paints
Turbines	R.I.M.	Dehydrators	Food Processing
Buses	Trucks	Reverse Osmosis	Medical
Machinery	Hot Presses	Autoclaves	Pharmaceuticals
Waterblast	Compressed Gas	Packaging	Textiles Steam
Automotive	Ground Support /Test	High Performance Racing	

EXAMPLES:

- 1. Steam hose. Convoluted hose assemblies (R276-20) handling steam and water alternately with a 12-15 minute thermal cycle on a hot press for lamination of thermoplastics materials.
- 2. Chlorine transfer hose. (S81816) Loading service conditions at about -70°F (-57°C) at psi's ranging from 70 to 135. These hoses replaced Monel metal hoses.
- 3. Air, fuel & oil hoses in buses. Of the many applications on a bus the majority are PTFE hose assemblies (R115 hose assemblies). Temperatures to 250°F and pressures to 450 psi.
- 4. Turbo machinery. Lube, oil, fuel, air and coolant, transfer lines.
- 5. Chlorine "repackaging". Titeflex S81808 (1/2") chlorine hose has been recommended by the Chlorine Institute as a replacement for copper tubing in filling chlorine cylinders because of it's safety and versatility.
- 6. Gasses. Medium, high and extra high pressure assemblies for transfer of compressed gasses.

R115/R105 R122/R144 Conductive

Smooth Bore Medium Pressure Industrial Hose

Applications:

- Compressed gas
- Fuel and lubricant handling
- Steam transfer
- Hydraulic systems

Temperature range:

-54°C to 204°C for continuous service -73°C to 260°C for intermittent service Consult THT Ostrava CZ for temperature adjusted pressure rating

Hose construction:

- Innercore vertically extruded to maintain highest quality of concentricity
- Manufactured from fine powder PTFE
- 304 stainless steel wire braid reinforcement

• A precisely controlled amount of carbon black added to the PTFE innercore provides a continuous conductive path to the metal end filling, to dissipate static electricity in fuel, steam, or high flow-rate applications (R122/R144 hose only) MEDIUM PRESSURE

Vacuum service:

- Sizes -4 through -10 are rated for full vacuum
- Larger sizes -12 and above can be reinforced with an internal support spring for full vacuum service

Applications centering on the transfer of fluids or gases under demanding conditions in harsh environments are opportunities for the user to realize the value of PTFE Hoses.

Innovative PTFE technology by Titeflex satisfies the demanding aerospace, automotive, and industrial applications. The driving force is Titeflex and THT Ostrava CZ commitment to safety, quality, value, and reliability. Modern quality production and customer satisfaction make Titeflex the leading PTFE hose producer.

R115.030 WALL HOSE I R122 CONDUCTIVE HOSE

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HOSE PART NUMBER	NOMI NAL SIZE, I N.	AVER 1. in.	RAG E 0. mm	AVERAGE O.D., IN.	OPERATI NG PRESSURE PSIAT ROOM TEMP.	BURST PRES- SURE PSIAT ROOM TEMP	MAXI MUM CONTINUO- US	MINIMUM LENGTH, FT. BEND	HOSE WEI- GHT LB.I FT.
R115 / R122-3	3/16	.125	3.2	.234	3,000	12,000	200	2.00	.048
R 115 / R122-4	1/4	.187	4.8	.312	3,000	12,000	200	2.00	.058
R115 / R122-5	5/16	.250	6.4	.375	3,000	12,000	250	3.00	.078
R115 / R122-6	3/8	.312	7.9	.445	2,500	10,000	150	4.00	.098
R115 / R122-6T*	3/8	.375	9.5	.503	2,250	9,000	150	4.50	.105
R115 / R122-8	1/2	.406	10.3	.549	2,000	8,000	100	5.20	.126
R115 / R122-10	5/8	.500	12.7	.648	1,500	6,000	100	6.50	.154
R115 / R122-12	3/4	.625	15.9	.778	1,200	4,800	75	7.70	.190
R115 / R122-12T*	3/4	.755	19.1	.886	1, 100	4,400	75	8.20	.211
R115 / R122-16	1	.875	22.2	1.030	1,000	4,000	60	9.00	.280
R115 / R 122-16T*	1	1.000	25.4	1.135	900	3,600	60	10.00	.322
R115 / R122-16Z+	1	.875	22.2	1.065	1,250	5,000	60	9.00	.459
R115 / R122-20	1-1/4	1.125	28.6	1.315	800	3,200	40	16.00	.369

Consult factory for temperature-adjusted ratings. * True bore. + Double braid.



R115/R105 HOSE



R122/R144 CONDUCTIVE HOSE



R115/R105 and R122/R144 Conductive

Hose Fittings

R105 .040 WALL HOS	EIR144 COND	UCTIVE HOSE		-				10	1
HOSE PART NUMBER	NOMI NAL SIZE, I N.	AVEF 1. IN.	RAG E O. MM	AVERAGE O.D., IN.	OPERATI NG PRESSURE PSI AT ROOM TEMP.	BURST PRESSURE PSI AT ROOM TEMP	MAXI MUM CONTINUOUS LENGTH, FT.	MINIMUM BEND	HOSE WEIGHT LB.I FT.
R105 / R144-4	1/4	.187	4.8	.323	3,000	12,000	200	2.00	.08
R105 / R144-5	5/16	.250	6.4	.386	3,000	12,000	150	2.50	.09
R105 / R144-6	3/8	.312	7.9	.451	2,500	10,000	150	4.00	.11
R105 / R144-8	1/2	.406	10.3	.566	2,000	8,000	100	4.60	.14
R105 / R144-10	5/8	.500	12.7	.665	1,500	6,000	100	5.50	.19
R105 / R144-12	3/4	.625	15.9	.795	1,200	4,800	75	6.50	.23
R105 / R144-16	1	.875	22.2	1.060	800	3,200	60	9.00	.30





MALE PIPE

PART NUMBER 1 PIECE FITTING	PART NUMBER 1 PIECE FITTING	SIZE IN.	THREAD	NOMINAL I.D.
Y54104T-xxx	Y54304T-xxx	1/4	1/8 - 27	.156
Y54104-xxx	Y54304-xxx	1/4	1/4 - 18	.156
Y54105-xxx	Y54305-xxx	5/16	1/4 - 18	.207
Y54106T-xxx	Y54306T-xxx	3/8	1/4 - 18	.277
Y54106-xxx	Y54306-xxx	3/8	3/8 - 18	.277
Y54108T-xxx	Y54308T-xxx	1/2	3/8 - 18	.358
Y54108-xxx	Y54308-xxx	1/2	1/2 - 14	.358
Y54110-xxx	Y54310-xxx	5/8	1/2 - 14	.469
Y54112-xxx	Y54312-xxx	3/4	3/4 - 14	.594
Y54116-xxx	Y54316-xxx	1	1 - 11-1/2	.812

JIC FEMALE SWIVEL WITH , 'BACK-UP'' HEX

PART NUMBER 1 PIECE FITTING	PART NUMBER 1 PIECE FITTING	SIZE IN.	THREAD	NOMINAL I.D.
Y54004 -xxx	Y54204-xxx	1/4	7/16 - 20	.156
Y54005 -xxx	Y54205 -xxx	5/16	1/2 - 20	.207
Y 54006-xxx	Y54206-xxx	3/8	9/16 - 18	.277
Y 54008-xxx	Y54208-xxx	1/2	3/4 - 16	.358
Y 54010-xxx	Y S4210-xxx	5/8	7/8 - 14	.469
Y 54012-xxx	Y 54212-xxx	3/4	1-1/16 - 12	.594
Y 54016-xxx	Y54216-xxx	1	1-5/16-12	.812









JIC FEMALE SWIVEL WITH "BACK-UP" HEX



NOTE: 1) Fittings of other dimensions and/or standards (GOST, OST, DIN, MON) available on request.



R165 Smooth Bore High Pressure Industrial Hose

Specification approvals:

UNI-BRAID® R165 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 perfor-

mance for superior service and cost effectiveness over the long term.

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

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. The innercore is postcured to enhance hose performance in extreme applications. 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.

Innovative PTFE technology by Titeflex satisfies the demanding aerospace, automotive, and industrial applications. The driving force is Titeflex and THT Ostrava CZ commitment to safety, quality, value, and reliability. Modern quality production and customer satisfaction make Titeflex the leading PTFE hose producer.

HOSE PART NUMBER	NON SI in.	IINAL ZE mm	NOMINAL O.D. IN. PSI AT ROM TEMP	MAXIMUM OPERATING PRESSURE PSI	BURST PRES- SURE PSIAT ROOM TEMP	ROOM TEMP. BURST	HIGH TEMP BURST	MAXI MUM CONTINUO- US	MINIMUM BEND RADIUS IN.	HOSE WEIGHT LB.I FT.
R165-4	1/4	6	.222	.390	5,000	15,000	12,000	50	1,50	0.100
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	35	5.00	1.020
R165-20	1-1/4	32	1.118	1.660	5,000	15,000	9,000	35	12.00	1.850
R165-24	1-1/2	38	1.375	1.900	4,000	12,000	9,000	35	14.00	1.910

UNI-BRAID® R165 HOSE DIMENSION AND PRESSURE RATINGS



R272/R276 - R285/287

Convoluted Medium Pressure Industrial Hose - Convoluted Full Vacuum Rated Hose

Specification approvals:

R272/R276 hose is extremely flexible and lightweight offering an improved alternative to maximize operator handling and safety in comparison to other types of industrial hose. Combined with PTFE's unmatched chemical compatibility, corrosion resistance, temperature range and "non-stick" attributes, it offers a superior value. In addition, R276 offers a black conductive innercore for high flow rate transfer applications where elimination of static charges is required to ensure performance.

Temperature range:

-54°C to 204°C Consult THT Ostrava CZ for temperature-adjusted pressure ratings

Applications:

- Chemical processing
- Pulp and paper
- Foam packaging
- Turbine engine componentry
- Air compressor discharge
- Tire press

R272 Hose construction:

A white non-conductive PTFE liner, externally reinforced with PTFE impregnated fiberglass and a single steel wire braid. 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.

R276 Hose construction:

The PTFE innercore has a precisely controlled amount of carbon black added to the PTFE innercore. This conductive PTFE core material provides a continuous conductive path to the metal end fittings to bleed off static electricity. Innovative PTFE technology by Titeflex satisfies the demanding aerospace, automotive, and industrial applications. The driving force is Titeflex and THT Ostrava CZ commitment to safety, quality, value, and reliability. Modern quality production and customer satisfaction make Titeflex the leading PTFE hose producer.

R285/287 hose

The R285/287 hose incorporates a heavy wall PTFE (nonconductive/conductive) innercore reinforced with an external stainless steel wire wrapped in the root of the convolution under the stainless steel braid. This additional wire reinforcement provides unmatched flexibility with the hoop strength necessary for use in full vacuum applications up to 28" Hg.

R272/ R270, R203/ R2	207 HUSE	SPECIFICA	IIONS						
HOSE PART NUMBER	NOM SI in.	IINAL ZE mm	NOMINAL ID, IN.	NOMINAL OD, IN.	OPERATING PRESSURE PSI	BURST PRESSURE ROOM TEMP.	MAXIMUM CONTINUOS LENGH. FT.	MAXI MUM BEND RA- DIUS IN. AT RO- OMTEMP	HOSE WEIGHT LB.I FT.
R272 / R276-8	1/2	13	.512	.785	1,000	4,000	75	1.00	.22
R272 / R276-12	3/4	19	.750	1.090	1.000	4,000	50	2 .00	.29
R272 / R276-16	1	25	1.300	.615	1,000	4,000	50	3.00	.41
R272 / R276-20	1-1/4	32	1.239	1.560	1,000	3,600	50	6.25	.50
R272 / R276-24	1-1/2	38	1.500	1.792	750	3,000	50	7.50	.62
R272 / R276-32	2	51	1.982	2.333	500	2,000	50	10.00	.97
R285 / 287-24	1-1/2	38	1.52	1.90	3,000	12,000	40	7.50	.882
R285 / 287-32	2	51	2.02	2.42	1,900	12,000	40	10.00	1.194

R272 / R276, R285 / R287 HOSE SPECIFICATIONS



S818XX PTFE Chlorine / Bromine Hose

Specification approvals:

Titeflex chlorine hose are shallow and helical, rather than annular as in metal hose, to facilitate draining and cleaning and reduce transfer time cycles.

Damage resistance is another advantage; Titeflex chlorine hose recovers its form and capacity after crushing, while metal hose may remain permanently flattened.

Titeflex chlorine transfer hose is currently available in 1/ 2" and 1" I.D.'s. It offers full flow characteristics for faster loading and unloading and are supplied in lengths from one to 50 feet. For quality assurance and traceability, each factory-made and tested assembly is serialized and recorded, along with the installation location and date. The assembly is also clearly tagged with its pressure and temperature ratings.

Applications:

• Size 1" chlorine hose for rail car loading and unloading

• Titeflex 1/2" chlorine hose for replacing copper whips at chlorine repackaging plants filling 1 ton containers and 100/150 lb. cylinders

Temperature range:

• -40°F to 120°F (-40°C to 49°C)

Hose Construction:

- Convoluted PTFE core with a double layer of braid
- 1" hoses are covered with a CPE jacket for abrasion protection
- New optional heavy duty high density polyethylene spiral wrap available
- Schedule 80 monel male pipe fittings
- Monel schedule MSS type A stub ends available for 1" size
- 1/2" size males have a press-fit liner/insert to prevent erosion

Proven Performance:

- Engineered specifically to meet the critical application conditions of chlorine transfer
- Used worldwide by major chemical producers
- Meets or exceeds the Chlorine Institute guidelines, Pamphlet 6 Appendix A, Drawing No. 135

Chlorine transfer is recognized as one of the most challenging and potentially hazardous hose applications. Aware of the clear need for safety, reliability and performance, Titeflex has engineered a unique product to meet the demands of this critical application. Titeflex S818XX chlorine hoses are internationally accepted and recognized for providing many years of unparalleled safety and performance.



MONEL MALE NPT EACH END SPECIFICATIONS

HOSE PART NUMBER	NOM SI in.	IINAL ZE mm	NOMINAL NOMIN O.D. IN. O.D. IN		NOMINAL O.D. IN. PRESSURE PSI		BURST PRESSURE PSI TYP. MAX. CONTINUOS LENGH, IN.		HOSE WEIGHT LB.I FT.	FITTING THREAD NPT
S81808-L	1/2	13	0.500	.915	500	2,000	50	1.50	0.16	1/2 - 14
S81816-L	1	25	1.000	1.875	375	1,875	50	6.00	1.00	1 - 11 - 1/2
and the second s		L-11.0	A DESCRIPTION OF A DESC							and the second se



MATERIAL COMPATIBILITY KEY:

1. Excellent 2. Acceptable with Limited Service Life 3. Not Recommended 0. No Information, Test Before Using. Consult THT Ostrava CZ for other than room temperature applications.

EFFUSION COMPATIBILITY KEY:

A. Will effuse and can displace breathable air in a confined space. B. Potential to effuse and, with atmosphere, form chemicals that can corrode braid and fitting material. Especially significant when "vapor phase" exists, I.E., when they reach their boiling point of approximately 125° F at atmospheric pressure. Hose assemblies should be used in well-vented areas only. C. Potential for effusion and can cause corrosion of the hose braid reinforcement and fitting material. These chemicals are all gases at atmospheric pressure and at temperatures of 56° F or lower. N/C. No change.

ELECTROSTATIC DISCHARGE:

In many industrial plants, there is an awareness that electrostatic discharge can be a hazard. This discharge is the result of two unlike materials coming into contact. This contact allows electrons from one material to move across its boundary and associate with the other. For example, electrons from steam can align with the wall of a PTFE hose. If both materials are good conductors of electricity, the positive and negative electrons flow back and forth between the chemical and hose wall, keeping them in balance. However, if one or both of them are insulators, the balance will be disrupted. As a result, chemicals such as gasoline or steam flowing through a white PTFE hose will deposit electrons on the wall of the innercore, building up static charge. When the charge exceeds the dielectric strength of the hose wall, dielectric breakdown occurs.

	DTEE		FITTING	MATERIAL		- FFFUSION CHEMICAL		CHENNEN	οτεε	FITTING MATERIAL				FFFUCION
CHEMICAL		CS	304SS	31655	BRASS	EFFUSION		CHEMICAL	PIFE	CS	304SS	31655	BRASS	EFFUSION
Acetaldehyde					1	В		Ammonium Sulphate		3			3	
Acetic Acid Glacial		0	2		3			Ammonium Thiocynate		3	3		0	
Acetic Acid 30%		0	2		3			Amyl Acetate		3			2	
Acetic Anhydride		3	2	2	3			Amyl Alcohol		2			1	
Acetone					1			Amyl Chloride	1	1	1		1	
Acetylene	1	0	2	2	2	C		Amyl Chloronaphthalene	1	0	1		0	
Acrylonitrile	1	0	2	2	2			Amyl Naphthalene	1	0	1		0	
Alum Ammonium or Potassium	1	3	3	2	2			Aniline	1	2	1		3	
Aluminum Acetate	1	0	1	1	3			Aniline Dyes	1	3	1		3	
Aluminum Bromide	1	3	2	2	3			Aniline Hydrachloride		3	3		3	
Aluminum Chloride		3	2	2	3			Animal Fats					0	
Aluminum Flouride		3	2	2	3			Aqua Regia		3	2		3	
Aluminum Hydroxide		0			1			Arsenic Acid		3	3		2	
Aluminum Nitrate		3			0			Askarel					1	
Aluminum Salts		0	2	2	0			Asphalt	1	1	1		1	
Aluminum Sulfate	1	3	3	2	3			Barium Carbonate	1	2	1		1	
Ammonia, Anhydrous	1	1	1	1	0			Barium Chloride	1	2	1		2	
Ammonia, Aqueous	1	0	1	1	3			Barium Hydroxide	1	3	1		3	
Ammonium Carbonate		1	1	1	0			Barium Sulfate	1	1	1		2	
Ammonium Chloride	1	0	2	2	3			Barium Sulfide		3			3	
Ammonium Hydroxide		2			3			Beer		2			1	
Ammonium Metaphosphate					0			Beet Sugar Liquors					0	
Ammonium Nitrate					3			Benzene					1	
Ammonium Nitrite	0	0			3		Benzenesulfonic Acid 0 3 2		2	2				
Ammonium Persulfate	3	0			0		Benzaldehyde 2		1					
Ammonium Phosphate		3	2		0									



СНЕМІСЛІ		FITTING MATERIAL					0755	FITTING MATERIAL				FEFLISION	
CHEMICAL	PIFE	CS	304SS	31655	BRASS	EFFUSION	CHEMICAL	PIFE	CS	304SS	31655	BRASS	EFFUSION
Benzine					1	В	Chlorine, Gaseous, Dry*	*	2	3	3	2	C
Benzyl Alcohol		2			1		Chlorine, Gaseous, Wet*	*	3	3	3	3	В
Benzyl Benzoate					0		Chlorine Trifluoride	0	3	0	0	0	C
Benzyl Chloride					0		Chloroacetic Acid	1	3	3	3	3	
Bismuth Carbonate					0		Chlorobenzene	1	1	1	1	1	
Black Sulphate Liquor		2			3		Chlorobromomethane	1	1	1	1	1	
Blast Furnace Gas					1	C	Chloroform	1	1	1	1	1	
Borax		2			1		0-Chloronaphthalene	1	1	1	1	1	
Bordeaux Mixture		0			0		Chlorotoluene					1	
Baric Acid		3			2	Chromic Acid			3	3		3	
Bunker Oil					1		Citric Acid		3	3		3	
Butadine					1		Cod Liver Oil					1	
Butane					1	C	Coke Oven Gas					0	
Butter Oil					1		Compressed Natural Gas (CNG)1		1	1	1	2	A1
Butyric Acid		3			2		Copper Chloride	1	3		1	3	
Butyl Acetate		2			2		Copper Cyanide	1	0	1	1	3	
Butyl Alcohol					1		Copper Sulfate	1	3	1	1	3	
Butyl Amine					1		Corn Oil	1	1	1	1	1	
Butyl Carbitol					1		Corn Syrup						
Butyl Stearate					1		Cottonseed Oil					1	
Butyl Mercaptan		0			0		Creosote		2				
Butraldehyde		0			1		Cresol		2				
Calcium Acetate					1		Crude Wax					1	
Calcium Bisulfate		0			3		Cutting Oil	1	1	1	1	1	
Calcium Bisulfite	1	3	1	1	3		Cyclohexane	1	1	1	1	1	
Calcium Carbonate	1	2	1	1	3		Cyclohexanome	1	0	1	1		
Calcium Chlorate	1	2	2	1	2		Cymene	1	0	0	0	1	
Calcium Chloride	1	3	2	1	2		Decaline	1	0	0	0	1	
Calcium Hydroxide	1	3	1	1	3		Denatured Alcohol					1	
Calcium Hypochlorite		3	2		3		Diacetone					1	
Calcium Nitrate		2			1		Diacetone Alcohol					1	
Calcium Silicate					1	В	Dibenzyl Ether					1	
Calcium Sulfate					1		Dibutyl Ether					1	
Calcium Sulfide					0		Dibutyl Phthalate	1	1	1	1	1	
Cane Sugar Liquors	1	1	1	1	2		Dibutyl Sebacote	1	1	1	1	1	
Carbolic Acid	1	3	1	1	3		Dichlorobenzene	1	0	1	1	1	
Carbon Dioxide	1	1	1	1	1	Α	Diesel Oil	1	1	1	1	1	
Carbon Disulfide		2	1	1	2		Diethylamine	1	3				
Carbonic Acid	1	3	1	1	3		Diethyl Ether					1	В
Carbon Monoxide					1	C	Diethylene Glycol					1	
Carbon Tetrachloride		2			2		Diethyl Phthalate		0			1	
Castor Oil					1	Diethyl Sebacate			0			1	
Caustic Soda		2			3		Di-Isobutylene	0	0			1	
Cellosolve, Acetate		0	2	2	1		Di-Isopropyl Keytone		0			1	
Cellosolve, Butyl					1	Dimethyl Aniline			0			1	
Cellulube					1		Dimethyl Formamide						



	FITTING MATERIAL				FITTING MATERIAL			FFFUCION					
CHEMICAL	PIFE	CS	304SS	31655	BRASS	EFFUSION	CHEMICAL	PIFE	CS	304SS	316SS	BRASS	EFFUSION
Dimethyl Phthalate		0			1		Glycols	1	1	1	1	1	
Dioctyl Phthlate					1		Green Sulfate Liquor	1	1	1	1	0	
Dioxane					1		nHexaldehyde	1	1	1	1	1	
Dipentene					1		Hexane	1	1	1	1	1	
Ethanolamine					1		Hexene	1	1	1	1	1	
Ethyl Acetate					1		Hexyl Alcohol					2	
Ethyl Acetoacetate					1		Hydraulic Oil, Petroleum					1	
Ethyl Atrylate							Hydrochloric Acid, 15%		3	3	3	3	В
Ethyl Alcohol					1		Hydrochloric Acid, 37%		3	3	3	3	В
Ethyl Benzene					1		Hydrochromic Acid		3	3	3	3	
Ethyl Cellulose					1		Hydroflouric Acid, Concentrated	1	3	3	3	3	
Ethyl Chloride		2			2		Hydrofluosilicic Acid	1	0	2	2	3	
Ethyl Ether		2			2		Hydrogen, Gaseous	**	1	1	1	1	C
Ethyl Mertaptan		2			2	В	Hydrogen Peroxide, 70%	1	2	3	1	3	
Ethyl Pentochlorobenzene		2			1		Hydrogen Sulfide, Gaseous	1	3	2	1	3	C
Ethyl Silicate					1		Hydroquinone					0	
Ethylene Chloride		2			2		Isobutyl Alcohol					1	
Ethylene Chlorohydrin		0		0	0		Iso Octane					1	
Ethylene Diamine		0		0	1		Isopropyl Acetate					1	
Ethylene Glycol		2			1		Isopropyl Alcohol					1	
Fatty Acids		0			0		Isopropyl Ether	1	1	1	1	1	
Ferric Chloride		3			3		JP3 Fuel	1	1	1	1	1	
Ferric Nitrate	1	3	1	1	0		JP4 Fuel	1	1	1	1	1	
Ferric Sulfate	1	3	1	1	3		JP5 Fuel	1	1	1	1	1	
Ferrous Chloride		3			2		JP6 Fuel	1	1	1	1	1	
Ferrous Nitrate	1	3	1	1	3		JP8 Fuel					1	
Ferrous Sulfate	1	3	1	1	2		Kerosene					1	
Fluoroboric Acid		0			0		Ketones					1	
Formaldehyde		2			2		Lacquers		3	3		1	
Formic Acid		3			2		Lacquer Solvents		3	3		1	В
Freon 12	2	3			0	A	Lactic Acid	1	3	2	1	2	
Freon 21	2	3			0	A	Lard	1	1	1	1	3	
Freon 22	2	3	1	1	0	A	Lead Acetate	1	3	0	1	1	
Freon 113	2	3	1	1	0	A	Lead Nitrate	0	1	1	1	0	
Freon 114	2	3	1	1	0	A	Lime Bleath	0	3	2	1	0	
Fuel Oil	1	1	1	1	1		Linoleic Acid		3	2		3	
Fumaric Acid	0	0	1	1	0		Linseed Oil					1	
Furon Furfuran					1		Lubricating Oils, Petroleum					1	
Furfural		2			1		Magnesium Chloride		3	3		2	
Gallic Acid		3			0		Magnesium Hydroxide					0	
Gasoline					1	Magnesium Sulfate		1	1	1	1	1	
Glauber's Salt	0				0		Molic Acid		2	2		0	
Glucose					1		Mercuric Chloride		3			3	
Glue		2			1		Mercury					3	
Glycerin		2			1		Mesityl Oxide					1	



CHEMICAL	DTEE	FITTING MATERIAL				FEELISION	CUENICAL		FITTING N		MATERIAL		
CHEMICAL	PIFE	CS	304SS	316SS	BRASS	EFFUSION	CHEMICAL		CS	304SS	316SS	BRASS	EFFUSION
Methyl Acetate					1		Phenol		3			3	
Methyl Atrylote					1		Phorone					1	
Methyl Alcohol					2		Piric Acid	1	3	1	1	3	
Methyl Bromide					0	В	Pinene	1	1	1	1	1	
Methyl Butyl Ketone					1		Pine Oil	1	2	1	1	0	
Methyl Chloride					1	В	Plating Solution, Chrome	1	0	3	3	0	
Methylene Chloride					3		Potassium Acetate	1	3	2	2	0	
Methyl Ethyl Ketone (MEK)					1		Potassium Chloride			2	2	2	
Methyl Formate					3	В	Potassium Cyanide		2			3	
Methyl Isobutyl Ketone					1	Potassium Dichromate			3			0	
Methyl Methacrylate					0		Potassium Hydroxide, 30%		3			3	
Methyl Salicylate					1		Potassium Nitrate		3			2	
Milk					3		Potassium Sulfate	1	1	1	1	2	
Mineral Oil					1		Propane	1	1	1	1	1	A
Monochlorobenzene					1		Propyl Acetate		1	1	1	1	
Monoethanolamine					1		Propyl Alcohol	1	1	1	1	1	
Naphtha		2			1		Pyridine, 50%	1	1	1	1	1	
Haphthalene		2	2		0		Red Oil		2			2	
Naphthenic Acid		0	2		0		Salicylic Acid		3			0	
Natural Gasf					2	A+	Salt Water		3			3	
Nickel Acetate					1		Sewage		3			1	
Nickel Chloride	1	3	2		3		Silicon Tetrafluoride (STF)	0	3	2***	2***	3	C
Nickel Sulfate	1	0	2	1	3		Silicone Greases	0	1	1	1	1	
Niter Coke		3	2	1	0		Silicone Oils	0	1	1	1	1	
Nitric Acid,							Silver Nitrate	1	3	1	1	3	
All Concentrations	1	3	2	2	3		Skydrol 500 & 7000	1	1	1	1	0	
Nitric Acid, Red Fuming	1	3	3	2	3		Soap Solutions	1	1	1	1	1	
Nitrobenzene					1		Soda Ash					2	
Nitroethane		0			1		Sodium Acetate		3			0	
Nitrogen, Gaseous					1	A	Sodium Bicarbonate		3			2	
Nitrogen Telroxide	0	0			0		Sodium Bisulfite		3			3	
n-Octane	0				1		Sodium Borate					0	
Octyl Alcohol	1	3	1	1	2		Sodium Chloride	1	2			1	
Oil, SAE	1	1	1	1	1		Sodium Cyanide	1	2	1	1	3	
Oleic Acid	1	3		1	2		Sodium Hydroxide, 40%	1	2	1	1	3	
Olive Oil	1	1	1	1	1		Sodium Hypochlorite	1	3			3	
Oxalic Acid	1	3	1	1	3		Sodium Metaphosphate	1	3	1	1	3	
Oxygen, Gaseous****					1	A	Sodium Nitrate					2	
Ozone					1		Sodium Perborate		3			3	
Paint					1		Sodium Peroxide		3			3	
Palmitic Acid		2			1	ļ	Sodium Phosphate		2			3	
Peanut Oil					1	ļ	Sodium Thiosulfate		3			3	
Perchloric Acid		0	2	2	0		Soybean Oil					0	
Perchloroethylene		2			1		Stannic Chloride		3	3	3	3	
Petroluem					1		Steam		3			1	A



CUENICAL	οτεε		FITTING N	MATERIAL		FFFUSION	
CHEMICAL	PIFE	CS	304SS	31655	BRASS	EFFUSION	
Stearic Acid		3	2		3		
Stoddard Solvent					1		
Styrene		2			2		
Sucrose Solution					1		
Sulfur, 200° F		3			3		
Sulfur Chloride		3			3		
Sulfur Dioxide	1	2	1	1	1	C	
Sulfur Trioxide		3	2	2	3	В	
Sulfurit Acid, 10%		3	2	3	3		
Sulfurit Acid, 98%		2	3	2	3		
Sulfuric Acid, Fuming		3	3	2	3		
Sulfurous Acid, 10%		3	2		3		
Sulfurous Acid, 75%		3			3		
Tanic Acid, 10%		2			3		
Tar, Bituminous			1	1	2		
Tartaric Acid		3	1	1	3		
Terpineol	1	0	0	0	0		
Titanium Tertachloride		3	2	2	3		
Toluene					1		
Toluene Diisocyanote		0	0	0	0		

CUENICAL	PTFE			FFFUSION		
CHEIWICAL	FIFE	CS	304SS	316SS	BRASS	EFFUSION
Transformer Oil					1	
Transmission Fluid, TypeA					1	
Tributoxyethyl Phosphate		0			0	
Tributyl Phosphate					0	
Trichloroethylene		2			1	
Tricresyl Phosphate					0	
Tung Oil	1	1	1	1	1	
Turpentine	1	1	1	1	2	
Urea Solution, 50%	1	1	1	1	0	
Varnish		3	1	1	2	
Vegetable Oils	1	1	1	1	1	
Versilube					1	
Vinegar		3			3	
Vinyl Chloride		2			3	C
Water		2			1	
Whiskey, Wines		3	2		3	
Xylene	1	2	2		3	
Zinc Acetate	1	1	1	1	1	
Zinc Chloride	1	3	2	1	3	
Zinc Sulfate	1	3	2	1	3	

Fitting material ratings are based on a fluid temperature of 20° C. Higher temperatures may accelerate adverse effects.

* Consult THT Ostrava CZ engineering

** Caution: explosive, consult THT Ostrava CZ engineering

*** Highly corrosive, consult THT Ostrava CZ

**** Special cleaning required. Consult THT Ostrava CZ engineering



TEMPERATURE/OPERATING PRESSURE: R115, R122, R105, R144 (PSI)

HOSE SIZE	18°C	37.8°C	65.6°C	95°C	120°C	150 C°	175°C	204°C	232°C
-345	3000	2922	2810	2698	2586	2474	2362	2250	2138
-6	2500	2435	2341	2248	2155	2062	1968	1875	1782
-8	2000	1948	1873	1799	1724	1649	1575	1500	1425
-10	1500	1461	1405	349	1293	1237	1181	1125	1069
-12	1200	1169	1124	1079	1034	990	945	900	855
-16, -20Z	1000	974	937	899	862	825	787	750	713

TEMPERATURE/OPERATING PRESSURE: R160, R165 (PSI)

HOSE SIZE	18°C	37.8°C	65.6°C	95°C	120°C	150 C°	175°C	204°C	232°C
-4, -6, -8, -10, -12, -16	5000	4869	4683	4496	4310	4123	3937	3750	3563

TEMPERATURE/OPERATING PRESSURE: R272, R276 (PSI)

HOSE SIZE	18°C	37.8°C	65.6°C	95°C	120°C	150 C°	175°C	204°C	232°C
2.4.5	1000	074	027	200	963	075	707	750	712
-3, -4, -5	1000	974	937	899	802	825	/8/	/50	/15
-6	750	730	702	674	646	618	590	563	535
-8	500	487	468	450	431	412	394	375	356



These products can be used to convey hazardous fluids, steam, and other dangerous materials which can cause personal injury or property damage if released through misuse, misapplication, or damaged. The user is responsible to analyze each application prior to specifying any product from this catalog. Due to the wide variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting all performance, safety, and warning requirements. Careful selection, proper assembly and use of hose fittings and accessories is essential for the safe and warranted operation of the hose assembly.



How To Order Hose Assembly

- 1. Determine basic requirements of hose assembly operating pressure, temperature, medium type, etc.
- 2. Select the hose inner diameter "dash size"
- 3. Choose the hose outer surface fire resistant, anti-abrasion or blank (wirebraid only)
- 4. Choose the hose end fittings configuration on both ends (straight-straight, straight elbow 45°, etc.)
- 5. Define fittings type/standard (JIC, GOST, OST) and threads size/type imperial/metric (where applicable)
- 6. In case of dual elbow fittings configuration, define correct angular offset see below
- 7. Determine the final hose length see adjacent pictures
- 8. Additional requirements (marking, packing, etc)



ORIENTATION OF FITTINGS

Proper positioning of elbow end fittings on a hose is governed by the offset angle, or the amount of angular offset between connecting parts in the installation. If this angle of orientation is not correct in the construction of a hose assembly the performance and life of the assembly will be greatly reduced.

Orientation is determined by the number of degrees between the fitting furthest from the viewer and the fitting nearest to the viewer, measured in a clockwise direction.







How to contact the right person

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