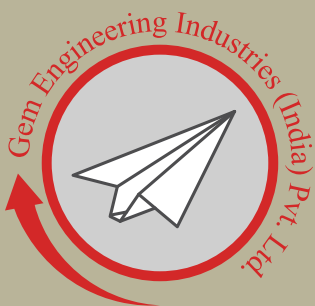




P.T.F.E. HOSE ASSEMBLY

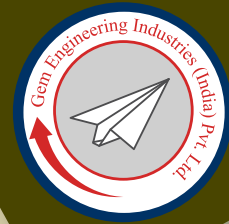


Gem Engineering Industries (India) Pvt. Ltd.

Manufacturer of Hydraulic Tube Fittings, Hose Fittings & Hose Assemblies
ISO 9001:2008 and ISO 14000:2004 Certified



INTRODUCTION



Gem Engineering Industries India Pvt. Ltd., manufacturer of World-Class Hydraulic Fittings (6mm to 42mm) as per global standard DIN 2353, Hose Fitting up-to 3 inches and Hose Assemblies. New designs of products added into production continuously. Founded in 2008; over the years has acquired a reputation for in-depth industry and product knowledge, quality of its products and efficiency of its manufacturing facilities. Quality (Lean Six Sigma, Kan-Ban System), Research, Qualified, Energetic, Cost Effective and Dedicated team to always provide products with aligned Service and Support with client specific and centered action.

INFRASTRUCTURE:

Own Premises (Quality Machineries with regular required up gradation) 20 CNC Turning Centres (To be 40 by December 2014) 130+ Employees PAN India footprint with ever increasing Dealer / Distributor network. Working with Original Equipment Manufacturers (OEM) and premium public limited / Navratna Companies like Indian Defense, R&D and BHEL etc., to name of few. Overseas in United Arab Emirates (UAE), Oman, Qatar and Europe.

OFFICE, PLANT, MACHINERY AND EQUIPMENT DETAILS

Office:

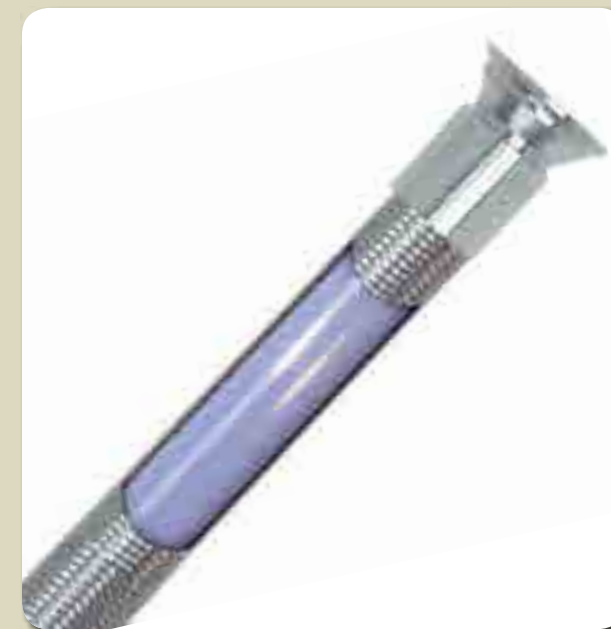
The administrative function / departments are operated within the corporate facility in the factory premises of 10,000 square feet located on the 2nd Floor, the work area is divided into world-class ergonomically designed cubicles with quality desk and seating facilities; following are the department / functions which are operational:

Reception, Visitor Lounge, Conference Room, Meeting Room, Design, Quality, Finance and Accounts, Purchase, Administration, Human Resource and Management, Server, Console and EPBAX Room, System and IT Support.



INDUSTRIAL FACILITY

POWER INSTALLED CAPACITY	250 KVA + GENERATOR CAPACITY 250 KVA
FACTORY AREA – SIZE OF ESTABLISHMENT	2000 Sq.Yard
FACTORY LOCATION	Plot No: 154/B & 165/C, IDA, Cherlapally, Phase III, Hyderabad – 500051, Andhra Pradesh, India
ADMINISTRATION OFFICE	4-2-254, Old Bhoiguda, Secunderabad – 500003, Andhra Pradesh, India





R14

Nominal Bore Dia		Maximum Dia Over Cover		Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Wall THK
(In)	(mm)	(In)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(mm)	(In)	
1/8	3.0	0.24	6.2	3,260	225	13,040	900	40	1.60	1.00
3/16	4.8	0.30	7.6	2,750	190	11,000	760	50	2.00	0.70
1/4	6.4	0.35	8.8	2,610	180	10,440	720	75	3.00	0.70
5/16	8.0	0.43	11.0	2,540	175	10,160	700	100	4.00	0.70
3/8	9.5	0.48	12.1	2,390	165	9,560	660	125	5.00	0.70
13/32	10.5	0.54	13.7	2,030	140	8,120	560	135	5.40	0.70
1/2	12.7	0.64	16.2	1,740	120	6,960	480	165	6.60	0.75
5/8	16.0	0.74	18.8	1,270	88	5,080	352	200	8.00	0.90
3/4	19.0	0.91	23.1	1,010	70	4,040	280	230	9.20	0.90
7/8	22.2	1.03	26.2	870	60	3,480	240	230	9.20	1.00
1	25.4	1.15	29.2	870	60	3,480	240	3001	2.00	1.20
1.1/8	29.0	1.30	33.1	630	44	2,520	176	4101	6.40	1.25

Applicable Standard:
Standard: SAE J517 - 100R14

Construction:
Core: Sintered tube of polytetrafluoroethylene (P.T.F.E).

Reinforcement:
Single braid of 304 series of stainless steel wire.

Temperature Range:
Continuous: -54°C to +260°C



Convoluted / Convoluted Conductive

Nominal Bore Dia		Maximum Dia Over Cover		Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Wall THK
(In)	(mm)	(In)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(mm)	(In)	
3/8	9.5	0.65	16.4	2,175	150	8,700	600	20	0.8	0.75
1/2	12.7	0.78	19.8	1,960	135	7,840	540	25	1.0	0.75
5/8	16.0	0.89	22.6	1,450	100	5,800	400	50	2.0	0.90
3/4	19.0	1.05	26.6	1,160	80	4,640	320	65	2.6	1.00
1	25.4	1.33	33.7	800	55	3,200	220	90	3.6	1.00
1.1/4	31.8	1.59	40.3	665	45	2,660	180	110	4.4	1.00
1.1/2	38.1	2.01	51.0	510	35	2,040	140	150	6.0	1.00
2	50.8	2.44	62.0	365	25	1,460	100	200	8.0	1.00

Construction:
Core: Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement:
Single Braid of 304/316 series of stainless steel wire.

Temperature Range:
Continuous: -54°C to +260°C

Available in electrical conductive version also in P18 - R14 Type B.
"Double braided available for higher performance".

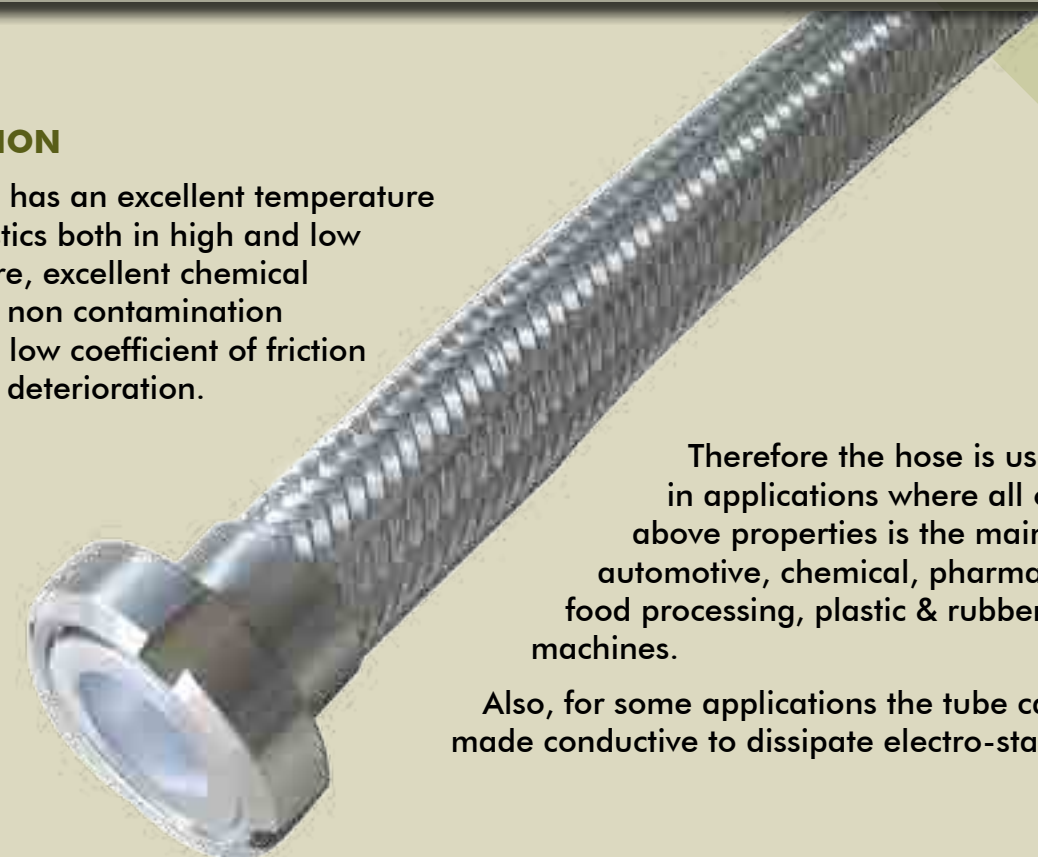
APPLICATION

P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria.



APPLICATION

P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration.



Therefore the hose is used generally in applications where all or one of the above properties is the main criteria in automotive, chemical, pharmaceutical & food processing, plastic & rubber molding machines.

Also, for some applications the tube can also be made conductive to dissipate electro-static charges.





R14 2 W/B

Nominal Bore Dia		Maximum Dia Over Cover		Working Pressure		Minimum Burst Pressure		Minimum Bend Radius		Wall THK
(In)	(mm)	(In)	(mm)	(psi)	(Bar)	(psi)	(Bar)	(mm)	(In)	
1.00	1/8	3.0	0.30	7.7	4,490	310	17,960	1,240	50	2.00
0.70	3/16	4.8	0.36	9.1	3,770	260	15,080	1,040	65	2.60
0.70	1/4	6.4	0.41	10.3	3,620	250	14,480	1,000	95	3.80
0.70	5/16	8.0	0.49	12.5	3,550	245	14,200	980	125	5.00
0.70	3/8	9.5	0.54	13.6	3,330	230	13,320	920	160	6.40
0.70	13/32	10.5	0.58	14.7	2,750	190	11,000	760	175	7.00
0.75	1/2	12.7	0.68	17.2	2,320	160	9,280	640	210	8.40
0.90	5/8	16.0	0.83	21.1	1,600	110	6,400	440	270	10.80
0.90	3/4	19.0	0.94	23.9	1,380	95	5,520	380	300	12.00
1.00	7/8	22.2	1.07	27.1	1,160	80	4,640	320	310	12.40
1.20	1	25.4	1.20	30.5	1,080	75	4,320	300	420	16.80
1.25	1.1/8	29.0	1.37	34.8	870	60	3,480	240	550	22.00

Applicable Standard:
Standard: Exceeds SAE J 517 - 100R14

Construction:
Core: Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement: Double braids of 303/304 series of stainless steel wire

TEMPERATURE RANGE
Continuous: -54°C to +260°C

APPLICATION

P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration.

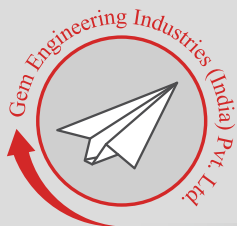
Therefore the hose is used generally in applications where all or one of the above properties is the main criteria.







DEALER / STOCKIST / DISTRIBUTOR



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ISO 9001:2008 and ISO 14000:2004 Certified



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