

PROUDLY MANUFACTURING SINCE 1999 · AHMEDABAD, INDIA



FLEXSYS

GUMMI HOSES PVT. LTD.

PRODUCT CATALOGUE

Quality • Performance • Assurance

High pressure hydraulic, steam and industrial rubber hoses — engineered for automobile, agriculture, earthmoving, drilling, construction, mining and petrochemical industries.

25+

YEARS EXPERIENCE

10

PRODUCT LINES

PAN

INDIA NETWORK

— WHO WE ARE

The Philosophy

Quality – Performance – Assurance. Three self-explanatory terms that together translate as “supplying superior quality products that enhance the overall performance, providing assurance in reference to this choice of dealing with the pros in the industry.”

Set up in the year 1999, Flexsys Gummi Hoses Pvt. Ltd. is a wonderful synergy between knowledge management of highly qualified technical personnel and radical innovative thinking of today's youth — thus striking an optimal balance amongst invaluable experience and quest for reaching new horizons through rapid global expansion.

Flexsys Gummi Pvt. Ltd. is an ace manufacturer of High Pressure Hydraulic Hoses primarily utilised in automobile, agriculture, earthmoving, drilling, construction, mining & petrochemical industries. Modern testing equipment form the quality pillars of the firm.

The Philosophy

Quality, Performance & Assurance — supplying superior quality products that enhance overall performance and provide assurance to our customers.

The Organisation

Founded in 1999, Flexsys Gummi Hoses Pvt. Ltd. operates from Ahmedabad as a dedicated manufacturer of high-pressure hydraulic hoses. Experienced engineers drive continuous improvement from raw material selection to final testing.

The Product

Once an ace in hydraulic hose manufacturing, today Flexsys has evolved to specialise in steam hoses — constantly upgrading and diversifying to ensure uncompromising quality.

The Network

Wide-spread dealer network mapping the entire country — North, South, East & West. Pan-India reach backed by strong distributor relationships.

25+

YEARS OF MANUFACTURING

10

PRODUCT LINES

4

ZONES · PAN-INDIA

1999

ESTABLISHED, AHMEDABAD

— WHY CHOOSE US

The Flexsys Advantage

Quality Assurance

Modern testing equipment forms the quality backbone of Flexsys. Every hose is tested before dispatch to ensure consistent performance.

Pan-India Network

Wide dealer coverage across North, South, East & West India. Flexsys has you covered nationwide.

Expert Manufacturing

Over 25 years of precision rubber hose manufacturing — a synergy of experienced professionals and innovative thinking driving continuous improvement.

Constant Innovation

Always on the run for improvement, upgradation & diversification — meeting the ever-growing demand for varied high pressure hoses across all industries.

— SECTORS WE SERVE

Industries We Power

- Automobile
- Agriculture
- Earthmoving
- Mining
- Construction
- Petrochemical
- Drilling
- Power & Utilities
- Petrol Pumps

— HOW WE WORK

From Enquiry to Delivery

01

Enquiry

Contact us by phone, email or visit.

02

Analysis

Technical team reviews your application.

03

Quotation

Competitive pricing & full specifications.

04

Production

Manufactured under strict quality checks.

05

Delivery

Dispatched via our dealer network, Pan-India.

OUR RANGE

Product Catalogue

All Flexsys hoses are manufactured to stringent quality standards with full technical specifications. Working temperature range -40°C to +120°C unless otherwise specified. All pressure ratings in PSI; dimensions in inches and mm.

01	FLEX SAE 100R1	SAE Standard
02	FLEX SAE 100R2	SAE Standard
03	FLEX SAE 100R3	SAE Standard – Medium Pressure
04	FLEX SAE 100R4 (Suction)	SAE Standard – Suction
05	FLEX SAE 100R5 C/R5R	SAE Standard
06	FLEX SAE 100R6	SAE Standard – Low Pressure
07	FLEX 3 Wire	Heavy Duty – Made to Flexsys Own Standards
08	FLEX Steam Line HT-1	IS 10655-1999 TYPE-2 – Steam
09	FLEX Steam Line HT-2	IS 10655-1999 TYPE-3 – Steam
10	FLEX Petroking	Petroleum / Fuel – Special Application

QUICK REFERENCE

How to Read This Catalogue

I.D.	Inside Diameter – the hose bore, in inch and mm.
O.D.	Outer Cover Diameter – overall hose diameter, in inch and mm.
Max. Working Pressure	Highest sustained pressure (psi) in normal use.
Min. Burst Pressure	Pressure (psi) at which the hose is guaranteed not to fail – always well above working pressure.
Min. Bend Radius	Tightest radius (mm) the hose can be bent to without kinking or reducing service life.

SAE STANDARD

FLEX SAE 100R1

APPLICATION	High pressure hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber
REINFORCEMENT	1 high tensile steel wire braid
COVER	Synthetic rubber, resistant to abrasion, ozone and weather
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.594	15.1	5000	20000	4.0
5/16	7.9	0.657	16.7	4250	17000	4.8
3/8	9.5	0.752	19.1	4000	16000	5.0
1/2	12.7	0.874	22.2	3500	14000	7.0
5/8	15.9	1.000	25.4	2750	11000	8.0
3/4	19.0	1.157	29.4	2250	9000	9.5
1	25.4	1.500	38.1	2000*	8000	16.8
1 1/4	31.8	2.000*	50.8	1625	6500	16.8
1 1/2	38.1	2.248*	57.1	1250	5000	20.0
2	50.8	2.756*	69.9	1125	4500	25.0
2 3/8	60.3	2.984	75.8	1015	4060	30.0
2 1/2	63.5	3.248	82.5	1000	4000	30.0
3	76.2	3.780*	96.0	650	2600	36.0
3 1/2	90.0	4.232*	108.5	365	1460	42.0
4	101.6	4.665*	118.5	365	1460	43.5

* SAE 100 R1 'A' dimensions "Made to Flexsys own standards"

SAE STANDARD

FLEX SAE 100R2

APPLICATION	High pressure hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber
REINFORCEMENT	2 high tensile steel wire braids
COVER	Synthetic rubber, resistant to abrasion, ozone and weather
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.583	14.8	2750	11000	—
5/16	7.9	0.591	15.0	2500	10000	102
3/8	9.5	0.685	17.4	2250	9000	114
1/2	12.7	0.807	20.5	2000	8000	—
5/8	15.9	0.933	23.7	1500	6000	—
3/4	19.0	1.091	27.7	1250	5000	203
1	25.4	1.402	35.6	1000	4000	—
1 1/4	31.8	1.811*	46.0	625	2500	—
1 1/2	38.1	2.063*	52.4	500	2000	—
2	50.8	2.626*	66.7	375	1500	—
2 3/8	60.3	2.953	75.0	362	1450	—
2 1/2	63.5	3.130	79.5	362	1450	—
3	76.2	3.720*	94.5	290	1160	—
3 1/2	90.0	4.154*	105.5	220	880	—
4	101.6	4.606*	117.0	145	580	—

* SAE 100 R1 'A' dimensions "Made to Flexsys own standards"

SAE STANDARD — MEDIUM PRESSURE

FLEX SAE 100R3

APPLICATION	Medium pressure hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber
REINFORCEMENT	1 high tensile steel wire braid
COVER	Synthetic rubber abrasion, ozone and weather resistant
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.563	14.3	1250	5000	76
5/16	7.9	0.689	17.5	1200	4800	102
3/8	9.5	0.748	9.0	1125	4500	102
1/2	12.7	0.937	23.8	1000	4000	127
5/8	15.9	1.063	27.0	875	3500	—
3/4	19.0	3.130	31.8	750	3000	152
1	25.4	1.500	38.1	565	2250	203
1 1/4	31.8	1.752	44.5	375	1500	254
1 1/2	50.8	2.520	50.8	215	860	410

SAE STANDARD — SUCTION

FLEX SAE 100R4 (Suction)

APPLICATION	Low pressure hydraulic, fuel oils, gasoline and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber with supporting wire helix
REINFORCEMENT	2 rayon braid
COVER	Synthetic rubber abrasion, ozone and weather resistant
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
3/4	19.0	1.374	34.9	300	1200	127
1	25.4	1.626	41.3	250	1000	152
1 1/4	31.8	2.000	50.8	200	800	203
1 1/2	38.1	2.252	57.2	150	600	254
2	50.8	2.756*	57.2	100	400	—
2 1/2	63.5	3.228	82.0	62	250	396
3	76.2	3.740	95.0	56	225	457

SAE STANDARD

FLEX SAE 100R5 C/R5R

APPLICATION	High pressure hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber and one cotton braid
REINFORCEMENT	1 high tensile steel wire braid
COVER	Oil and mildew resistant rubber impregnated cotton cover / In case of R5R cover is of Synthetic rubber
WORKING TEMP.	-40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.528	13.4	2750	11000	—
5/16	7.9	0.591	15.0	2500	10000	86
3/8	9.5	0.685	15.0	2250	9000	102
13/38	10.3	0.768	19.5	2000	8000	114
1/2	12.7	0.921	23.4	1750	7000	140
5/8	15.9	1.079	27.4	1500	6000	165
7/8	22.2	1.336	31.4	800	3200	187
1 1/8	26.7	1.500	38.1	625	2500	229
1 3/8	34.9	1.752	44.5	500	2000	267
1 13/16	46.0	2.248	57.1	350	1400	337
2 3/8	60.3	2.874	73.0	350	1400	530

SAE STANDARD — LOW PRESSURE

FLEX SAE 100R6

APPLICATION	Low pressure hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber
REINFORCEMENT	1 rayon braid
COVER	Synthetic abrasion, ozone and weather resistant
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.500	12.7	400	1600	64
5/16	7.9	0.563	14.3	400	1600	76
3/8	9.5	0.626	15.9	400	1600	76
1/2	12.7	0.780	19.8	400	1600	102
5/8	15.9	0.945	24.0	250	1400	127
3/4	19.0	1.024	26.0	250	1000	177
1	25.4	1.270	32.5	190	760	230

HEAVY DUTY — MADE TO FLEXSYS OWN STANDARDS

FLEX 3 Wire



APPLICATION	High pressure heavy duty hydraulic oils, air and water
CONSTRUCTION TUBE	Synthetic oil resistant rubber
REINFORCEMENT	3 high tensile steel wire braid
COVER	Synthetic rubber abrasion, ozone and weather resistant
WORKING TEMP.	−40°C to +120°C

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.590	15.0	150	2320	102
5/16	7.9	0.673	17.1	150	2320	114
3/8	9.5	0.787	20.0	150	2320	127
1/2	12.7	0.972	24.7	150	2320	178
5/8	15.9	1.098	27.9	150	2320	203
3/4	19.0	1.236	31.4	150	2320	241
1	25.4	1.496	38.0	150	2320	305
1 1/4	31.8	1.858	47.2	150	2320	419
1 1/2	38.1	2.106	53.5	150	1450	508
2	50.8	2.630	66.8	150	1450	635

IS 10655-1999 TYPE-2 — STEAM

FLEX Steam Line HT-1

APPLICATION	Steam at high temperature
CONSTRUCTION TUBE	Steam & Heat resistant EPDM rubber, seamless
REINFORCEMENT	1 high tensile steel wire braid
COVER	Synthetic rubber abrasion, ozone and weather resistant
WORKING TEMP.	Up to 220°C at 145 psi

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.669	17.0	232	2320	102
3/8	9.5	0.752	19.1	232	3320	114
1/2	12.7	0.866	22.0	232	3320	127
5/8	15.9	1.051	26.7	232	3320	178
3/4	19.0	1.177	29.9	232	3320	203
1	25.4	1.315	33.4	232	3320	305
1 1/4	31.8	1.575	40.0	232	3320	419
1 1/2	38.1	1.968	50.0	232	3320	508
2	50.8	2.332	56.7	232	3320	635

IS 10655-1999 TYPE-3 — STEAM

FLEX Steam Line HT-2

APPLICATION	Steam at very high temperature
CONSTRUCTION TUBE	Steam & Heat resistant EPDM rubber seamless
REINFORCEMENT	2 high tensile steel wire braids
COVER	Synthetic rubber abrasion, ozone and weather resistant
WORKING TEMP.	Up to 230°C at 232 psi

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
1/4	6.4	0.590	15.0	150	2320	102
5/16	7.9	0.673	17.1	150	2320	114
3/8	9.5	0.787	20.0	150	2320	127
1/2	12.7	0.972	24.7	150	2320	178
5/8	15.9	1.098	27.9	150	2320	203
3/4	19.0	1.236	31.4	150	2320	241
1	25.4	1.496	38.0	150	2320	305
1 1/4	31.8	1.858	47.2	150	2320	419
1 1/2	38.1	2.106	53.5	150	1450	508
2	50.8	2.630	66.8	150	1450	635

PETROLEUM / FUEL — SPECIAL APPLICATION

FLEX Petroking

APPLICATION	Diesel & fuel at petrol pumps
CONSTRUCTION TUBE	Synthetic petrol & diesel fuel resistant rubber
REINFORCEMENT	2 braids of suitable textile yarn
COVER	Synthetic rubber oil, weather, ozone, petrol & diesel resistant
ELECTRICAL CONTINUITY	Braided copper wire provided along the whole hose & rubber cover is also treated for electrical continuity

Inside Diameter		Outer Cover Diameter		Max. Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (mm)
inch	mm	inch	mm			
3/4	20.0	—	32.0	200	400	800
1	25.0	—	38.0	200	400	800
1 1/4	31.5	—	45.0	200	400	800

GET IN TOUCH

Contact Us

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