



Aarti Hydraulics



Mfg. & Supplier of All Types Of Hydraulic Hose & End Fittings

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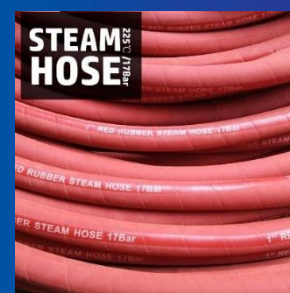
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ABOUT US

Established as a **Sole Proprietorship** firm in the year **2002**, we “**Aarti Hydraulics**” are a leading **Manufacturer** and **Trader** of a wide range of **Hose Pipe, Brass Elbow, Needle Valve, Hose Collar, Ferrule Connector And Hydraulic Bend**, etc. Situated in **Ahmedabad (Gujarat, India)**, we have constructed a wide and well functional infrastructural unit that plays an important role in the growth of our company. We offer these products at reasonable rates and deliver these within the promised time-frame. Under the headship of “**Mr. Rajesh Koshti**” (**Owner**), we have gained a huge clientele across the nation.

OUR PRODUCTS

1) HYDRAULIC HOSES

- ❖ SAE 100 R1
- ❖ SAE 100 R2 (AT)
- ❖ SAE 100 R3
- ❖ SAE 100 R5 C
- ❖ SAE 100 R5 R
- ❖ SAE 100 R6

2) SPIRAL HOSES

- ❖ EN 856 4SP
- ❖ EN 856 4SH

3) ROCK DRILL HOSE

4) SAND BLAST HOSE

5) JACK HOSE

6) LPG HOSE

7) AIR/WATER HOSE

8) PNEUMATIC HOSE

9) TRACTOR TROLLEY HOSE

10) AIR BRAKE HOSE

11) S.S. CORRUGATED HOSE

1) HYDRAULIC HOSES

SAE 100 R1

Hydraulic Hose – SAE 100 R1 / EN 853 1SN

Tube: Made of black, oil-resistant synthetic rubber.

Reinforcement: Braided with a single layer of high-tensile steel wire for added strength.

Cover: Constructed from black synthetic rubber, offering resistance to oil, corrosion, and abrasion.

Standards Compliance: Conforms to SAE 100 R1 and EN 853 1SN specifications.

Temperature Range: Suitable for use between -40°C and +100°C.

Hose Sizes:

- **Inner Diameter (ID):** Ranges from 4.8 mm to 50.8 mm
- **Outer Diameter (OD):** Ranges from 12.5 mm to 65.9 mm

Applications:

This steel wire-reinforced hydraulic hose is ideal for medium-pressure applications and provides higher working pressure capability than conventional rubber hoses. It is especially effective for oil transmission and is commonly used in forklifts, hydraulic engines, oilfield operations, mining, roadwork, and construction equipment.

DASH SIZE	 ID		 OD	 Working Pressure		 Bursting Pressure		 MIN. Bending Radius		 Max Length
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
03	3/16	4.8	12.5	250	3630	1000	14520	90	3.54	100+
04	1/4	6.4	14.1	225	3270	900	13080	100	3.93	100+
05	5/16	7.9	15.7	215	3120	860	12480	115	4.52	100+
06	3/8	9.5	18.1	180	2615	720	10460	125	4.52	100+
08	1/2	12.7	21.5	160	2320	640	9280	180	7.1	100+
10	5/8	15.9	24.7	130	1890	520	7560	205	8	100+
12	3/4	19	28.6	105	1530	420	6120	240	9.44	100+
16	1	25.4	36.6	88	1280	352	5120	300	11.8	100+
20	1-1/4	31.8	44.8	63	920	252	3680	420	16.53	100+
24	1-1/2	38.1	52.0	50	730	200	2920	500	19.68	100+
32	2	50.8	65.9	40	580	160	2320	630	24.8	100+

SAE 100 R2

SAE 100 R2 (AT) – High-Pressure Hydraulic Hose

Tube: Black synthetic rubber designed to resist oil for reliable fluid transfer.

Reinforcement: Constructed with two layers of high-tensile steel wire braiding, providing superior strength and pressure resistance.

Cover: Durable black synthetic rubber offering excellent protection against oil, corrosion, and abrasion.

Standards Compliance: Meets SAE 100 R2 and EN 853 2SN specifications.

Operating Temperature: Suitable for temperatures ranging from -40°C to +100°C, with intermittent tolerance up to +120°C.

Hose Dimensions:

- **Inner Diameter (ID):** 5 mm to 51 mm
- **Outer Diameter (OD):** 14.01 mm to 68 mm

Applications:

This heavy-duty hydraulic hose is ideal for conveying petroleum-based hydraulic fluids, lubricants, and synthetic or water-based fluids. Its robust construction ensures leak-free operation and thermal stability under high-pressure conditions. Commonly used in:

- Hydraulic systems
- Agricultural equipment
- Earthmoving and construction machinery
- Military and marine applications
- General industrial environments

The SAE 100 R2 (AT) hose offers outstanding performance in demanding conditions where durability and pressure resistance are essential.

DASH SIZE	 ID		 OD	 Working Pressure		 Bursting Pressure		 MIN. Bending Radius		 Max Length
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
03	3/16	5.0	14.1	415	6020	1660	24070	90	3.54	100+
04	1/4	6.3	15.7	400	5800	1600	23200	100	3.93	100+
05	5/16	8.0	16.9	350	5075	1400	20300	115	4.52	100+
06	3/8	10.0	19.7	330	4785	1320	19140	125	4.92	100+
08	1/2	12.5	23.1	275	3990	1100	15950	180	7.08	100+
10	5/8	16.0	25.8	250	3625	1000	14500	205	8.07	100+
12	3/4	19.0	30.0	215	3120	860	12470	240	9.44	100+
16	1	25.0	38.00	165	2395	660	9570	300	11.81	100+
20	1.1/4	31.0	48.60	125	1815	500	7250	420	16.53	100+
24	1.1/2	38.0	55.70	90	1305	360	5220	500	19.68	100+
32	2	51.0	68.00	80	1160	320	4640	630	24.80	100+

SAE 100 R3

SAE 100 R3 – Low-Pressure Textile Reinforced Hydraulic Hose

Tube: Made from oil-resistant synthetic rubber to ensure fluid compatibility and durability.

Reinforcement: Features two layers of high-strength textile braids for added flexibility and moderate pressure resistance.

Cover: Synthetic rubber exterior designed to withstand oil exposure, weather conditions, and surface abrasion.

Standards Compliance: Conforms to SAE 100 R3 and EN 854 R3 specifications.

Temperature Range: Operates efficiently from -40°C to +100°C.

Hose Dimensions:

- **Inner Diameter (ID):** 6.4 mm to 25.4 mm
- **Outer Diameter (OD):** 14.8 mm to 28 mm

Applications:

The SAE 100 R3 hose is ideal for low-pressure hydraulic applications involving petroleum-based or water-based fluids. It is also suitable for pneumatic systems. Its textile reinforcement provides the flexibility needed in installations where space is limited or movement is frequent, making it a reliable choice for mobile equipment, agricultural machinery, and general industrial uses.

DASH SIZE										
	ID	OD	Working Pressure	Bursting Pressure						
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
04	1/4	6.4	14.8	87	1262	348	5048	75	2.95	100+
05	5/16	7.9	17.3	84	1218	336	4872	100	3.93	100+
06	3/8	9.5	19.0	78	1131	312	4524	100	3.93	100+
08	1/2	12.7	23.8	70	1015	280	4060	125	4.92	100+
10	5/8	15.9	26.9	61	885	244	3540	140	5.51	100+
12	3/4	19	31.5	52	754	208	3016	150	5.90	100+
16	1	25.4	28.0	39	566	156	2264	205	8.07	100+

SAE 100 R5 C

Standard:

Manufactured according to the SAE 100 R5 C standard, which defines specifications for medium-pressure hose systems.

Design & Build:

- **Inner Tube:**
Constructed using black NBR (Nitrile Butadiene Rubber), which resists oil and is suitable for carrying lubricating fluids.
- **Reinforcement Layer:**
Reinforced with a single layer of high-strength braided steel wire over a yarn braid. This provides strength and pressure resistance.
- **Outer Cover:**
Protected by a braided cotton yarn cover, which offers basic abrasion resistance and flexibility.

Temperature Range:

Works efficiently in environments ranging from **-40°C to +100°C**, suitable for both cold and hot operating conditions.

Typical Application:

Ideal for **medium-pressure oil lubrication systems**, particularly used in **diesel engines in railway applications**.

SAE 100 R5 R

Specifications:

This hose complies with the SAE 100 R5 R standard, indicating it is designed for hydraulic systems under moderate pressure conditions.

Structure and Materials:

- **Tube (Inner Layer):**
Made from black NBR (Nitrile Butadiene Rubber), which is resistant to oil. This inner layer helps carry the hydraulic fluid while withstanding the effects of oil and other fluids.
 - **Reinforcement Layer:**
Contains a single braid of high-strength steel wire over a layer of yarn. This braided steel provides durability and allows the hose to endure internal pressure and external forces without collapsing or bursting.
 - **Cover (Outer Layer):**
Composed of oil-resistant rubber, which protects the hose from external wear, oil exposure, and environmental factors.
-

Temperature Operating Range:

The hose can function effectively in a wide temperature range from **-40°C to +100°C**, making it suitable for both cold and hot working environments.

Typical Applications:

This type of hose is commonly used for **medium-pressure hydraulic lines**, especially in machinery or equipment that operates with hydraulic systems. Its construction ensures both flexibility and durability under typical industrial conditions.

SAE 100 R6

SAE 100 R6 – Low-Pressure Hydraulic Return Hose

Tube: Constructed with oil-resistant synthetic rubber for compatibility with petroleum and water-based fluids.

Reinforcement: Reinforced with a single braid of high-strength textile for flexibility and low-pressure handling.

Cover: Made from ozone-resistant synthetic rubber, offering durability in harsh environmental conditions.

Standards Compliance: Meets SAE 100 R6 and EN 854 R6 specifications.

Temperature Range: Designed to perform in a wide temperature range from -40°C to +121°C.

Hose Dimensions:

- **Inner Diameter (ID):** 5 mm to 25 mm
- **Outer Diameter (OD):** 11 mm to 34 mm

Applications:

This hose is ideal for low-pressure hydraulic applications, particularly for the return and delivery lines of hydraulic systems. It is especially suitable for use in high-temperature environments, making it a preferred choice for return lines in mobile and industrial hydraulic equipment.

DASH SIZE										
	ID	OD	Working Pressure		Bursting Pressure		MIN. Bending Radius		Max Length	
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
03	3/16	5	11	35	500	140	2030	35	1.38	100+
04	1/4	6	12.6	30	430	120	1740	45	1.77	100+
05	5/16	8	14.1	30	430	120	1740	65	2.56	100+
06	3/8	10	15.8	30	430	120	1740	75	2.95	100+
08	1/2	12	19.4	30	430	120	1740	90	3.54	100+
10	5/8	16	23	30	430	120	1740	115	4.53	100+
12	3/4	19	26	21	300	84	1200	150	5.90	100+
16	1	25	33	14	200	56	800	150	5.90	100+

2) SPIRAL HOSES

EN 856 4SP

4SP/4SH – Four Spiral Wire Hydraulic Hose

Inner Tube: Made from black synthetic rubber that resists oil, ensuring reliable performance in hydraulic systems.

Reinforcement: Constructed with four layers of high-tensile steel wire spirals, providing exceptional strength and high-pressure capability.

Cover: Outer layer is made of synthetic rubber designed to resist oil, corrosion, abrasion, and harsh weather conditions, ensuring long-lasting durability.

Temperature Range: Suitable for continuous operation between -40°C and +100°C.

Hose Dimensions:

- **Inner Diameter (ID):** 19 mm to 50.8 mm
- **Outer Diameter (OD):** 32 mm to 68.1 mm

Summary:

This heavy-duty hydraulic hose is built for extremely high-pressure applications. Its multi-spiral wire reinforcement and robust synthetic rubber layers make it ideal for demanding environments such as construction, mining, and industrial machinery.

EN 856 4SH

Heavy-Duty Spiral Wire Hydraulic Hose (4SP/4SH Type)

Inner Tube:

Crafted from black synthetic rubber with excellent resistance to oil, ensuring safe and efficient fluid transfer in hydraulic systems.

Reinforcement:

Reinforced with four layers of high-tensile steel wire spirals, providing superior strength and the ability to handle extremely high pressures.

Outer Cover:

Durable synthetic rubber that offers strong protection against oil, corrosion, abrasion, and varying weather conditions—ideal for outdoor and rugged environments.

Temperature Range:

Engineered to perform reliably between -40°C and +100°C.

Size Range:

- **Internal Diameter (ID):** 19 mm to 50.8 mm
- **External Diameter (OD):** 32 mm to 68.1 mm

Use Case Summary:

This hose is ideal for high-pressure hydraulic applications in industries such as construction, mining, heavy machinery, and equipment where durability, strength, and reliability are critical.

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bursting Radius	 Max Length
Inch	mm	mm	BAR	PSI	BAR	PSI	mm	MTR
3/4"	19.1	32	420	6000	1680	24000	280	100+
1"	25.4	38.6	380	5500	1520	22000	340	100+
1-1/4"	31.8	45.8	325	4700	1300	18800	460	40+
1-1/2"	38.1	53.3	290	4200	1160	16800	560	40+
1-1/2"	38.1	53.3	290	4200	1160	16800	560	40+

3) ROCK DRILL HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Made from specially formulated black nitrile rubber, known for its excellent resistance to oil and fuel, ensuring long service life in demanding environments.

Reinforcement Options:

- **Option 1:** Single layer of high-strength synthetic yarn braiding.
 - **Option 2:** Single layer of high-tensile steel wire braiding.
 - **Option 3:** Double layer of high-tensile steel wire braiding.
- These reinforcement types provide different levels of pressure resistance and durability based on application needs.

Outer Cover (COVER):

Constructed with highly abrasion-resistant natural rubber, which protects the hose from rough handling, wear, and external damage.

Applicable Standards:

- Complies with **IS 446 Type-3**, an Indian standard for rubber hoses.
- Also meets **Technav RD Standard**, ensuring additional reliability and performance.

Temperature Range:

Capable of operating in extreme conditions from **-35°C to +80°C**, making it suitable for both hot and cold climates.

Hose Size Range:

- **Internal Diameter (ID):** 12.5 mm to 25 mm
- **Outer Diameter (OD):** 19 mm to 30 mm

Primary Applications:

Engineered for **high-pressure and heavy-duty** use, these hoses are ideal for:

- **Construction sites**
- **Mining operations**
- **Industrial setups**
- **Pneumatic tools and machinery**

4) SAND BLAST HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Constructed from natural rubber specially designed to resist extreme abrasion, making it ideal for handling harsh blasting media.

Reinforcement:

Reinforced with **two layers of high-strength synthetic textile yarn**, providing durability and flexibility under pressure.

Outer Cover (COVER):

Made from abrasion-resistant natural rubber, offering strong protection against wear, external damage, and rough surface contact.

Applicable Standard:

Complies with **IS 5894/90**, which specifies performance and safety standards for sandblast hoses.

Temperature Range:

Designed to function reliably in a wide temperature range from **-35°C to +80°C**, suitable for varied working conditions.

Hose Size Range:

- **Internal Diameter (ID):** 19 mm to 51 mm
- **Outer Diameter (OD):** 37 mm to 74 mm

Key Applications:

Ideal for **sand and shot blasting operations**, where abrasive materials such as sand or grit are transported at **high speed and pressure (up to 10 Bar)**.

- Its conductive rubber tube helps **dissipate static electricity**, enhancing safety during use.
- Commonly used for **cleaning and surface preparation** of materials like **metal, stone, and concrete**.

DASH SIZE	 ID		 OD	 Working Pressure		 Bursting Pressure		 MIN. Bending Radius		 Max Length
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
12	3/4	19	37	10	150	30	450	178	7	60
16	1	25	41	10	150	30	450	229	9	60
20	1-1/4	32	49	10	150	30	450	254	10	60
24	1-1/2	38	62	10	150	30	450	304	12	60
32	2	51	74	10	150	30	450	350	14	60

5) JACK HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Manufactured from **synthetic rubber**, ensuring reliable performance under high-pressure hydraulic applications.

Reinforcement:

Reinforced with **two layers of high-tensile steel wire braiding**, giving the hose exceptional strength to withstand **very high static pressure**.

Outer Cover (COVER):

Encased in **synthetic rubber** that offers excellent resistance to **oil, weather exposure, and surface abrasion**, making it highly durable in challenging work environments.

Applicable Standard:

Built according to **Standard 13100**, ensuring it meets industry benchmarks for performance and safety in high-pressure systems.

Temperature Range:

Engineered to perform within a wide temperature window of **-35°C to +80°C**, suitable for extreme working conditions.

Hose Dimensions:

- **Internal Diameter (ID):** 6.3 mm to 9.5 mm
- **Outer Diameter (OD):** 14.5 mm to 17.5 mm

Typical Applications:

This hose is specially designed for operations requiring **extremely high static pressure, up to 10,000 PSI**.

- Ideal for **hydraulic lifting equipment** (e.g., jacks, cylinders)
- Used in **hydrostatic testing** systems
- Frequently deployed in **rescue tools, emergency response gear, and safety-related hydraulic systems** where performance and reliability are critical.

DASH SIZE										
	ID	OD	Working Pressure		Bursting Pressure		Bursting Radius		Max Length	
	Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
04	1/4"	6.3mm	14.5	689	10,000	1379	20,000	100	3.94	100
06	3/8"	9.5mm	17.5	689	10,000	1379	20,000	130	5.12	100

6) LPG HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Constructed from **synthetic rubber** that is specially designed to resist **liquefied petroleum gas (LPG)**, ensuring safe and leak-free operation.

Reinforcement:

Strengthened with **high-tensile steel wire braiding**, which provides durability and helps the hose maintain its shape and strength under pressure.

Outer Cover (COVER):

Made from **synthetic rubber** in **orange or black color**, offering high resistance to:

- **Ozone** (for outdoor durability)
- **Weather** (heat, rain, etc.)
- **Oil** (for industrial safety)
- **Fire** (for added protection in flammable environments)

Applicable Standards:

Complies with **IS 9573: Part 2 – 2017**, the Indian standard for LPG hose construction and safety, ensuring it meets all quality and performance requirements for LPG use.

Hose Dimensions:

- **Internal Diameter (ID):** 8 mm
- **Outer Diameter (OD):** 15 mm

Working Pressure:

Rated for a **maximum working pressure of 1.0 MPa (10 bar)**, suitable for most LPG supply applications.

Temperature Range:

Designed to perform effectively between **-40°C to +70°C**, making it suitable for both cold storage and heated environments.

Packaging Options:

- **1.5-meter boxed lengths** for retail or domestic use
- **30-meter rolls** and **50+ meter rolls** for industrial or bulk applications

7) AIR/WATER HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Made from **black, modified nitrile rubber**, which provides excellent resistance to oils, heat, and aging, making it suitable for both air and water transfer.

Reinforcement:

Reinforced with a **single braid of high-strength synthetic yarn**, offering flexibility while maintaining good pressure handling capacity.

Outer Cover (COVER):

The hose is protected by a **specially formulated nitrile rubber cover** that is **highly resistant to abrasion**, ensuring long service life even in rugged and high-wear environments.

Applicable Standards:

Complies with **SAE 100 R3** and **EN 854 R3**, which are international standards for two-layer textile braided hydraulic hoses—ensuring quality, safety, and performance.

Temperature Range:

Engineered to perform efficiently in extreme conditions ranging from **-40°C to +100°C**, making it ideal for both cold and hot environments.

Hose Dimensions:

- **Internal Diameter (ID):** 6.4 mm to 25.4 mm
- **Outer Diameter (OD):** 14.8 mm to 28 mm

Key Applications:

This hose is **highly flexible and versatile**, recommended for a wide range of **air and water handling tasks** in:

- **Engineering and industrial operations**
- **Workshops and garages**
- **Shipyards and dockyards**
- **Irrigation systems and agriculture**

DASH SIZE	 ID		 OD	 Working Pressure		 Bursting Pressure		 Max Length
	Inch	mm	mm	BAR	PSI	BAR	PSI	MTR
8	1/2	12.5	20	12	170	36	510	100+
12	3/4	20	28.5	12	170	36	510	100+
16	1	25	35.5	12	170	36	510	100+
20	1 1/4	31.5	43.5	12	170	36	510	100+
24	1 1/2	38	50	12	170	36	510	100+
32	2	50	65	12	170	36	510	100+

8) PNEUMATIC HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Made from **black modified nitrile rubber**, designed to withstand oil, heat, and air pressure—ideal for pneumatic use.

Reinforcement:

Constructed with a **single braid of high-tensile synthetic yarn**, providing flexibility and durability under medium to high-pressure conditions.

Outer Cover (COVER):

- For hose sizes **6.3 mm to 20 mm**: Uses **specially compounded, abrasion-resistant nitrile rubber** in black.
- For hose sizes **25.0 mm and above**: Uses **abrasion-resistant modified natural rubber**, also in black.

Both materials offer excellent protection against wear, impact, and environmental exposure.

Applicable Standard:

Conforms to **IS 15446 Type 2**, which sets the specifications for pneumatic hose performance and safety in industrial applications.

Temperature Range:

Suitable for operating conditions between **-40°C and +70°C**, covering a wide range of climates and working environments.

Hose Size Range:

- **Internal Diameter (ID)**: 6.3 mm to 38 mm
- **Outer Diameter (OD)**: 12.7 mm to 47.5 mm

Primary Applications:

Recommended for use with **pneumatic tools** and **compressed air systems** across various industries, especially in:

- **Manufacturing and assembly plants**
- **Construction and civil works**
- **Heavy equipment operations**

This hose is ideal for delivering air at pressure to power tools and machinery efficiently and safely.

DASH SIZE	 ID		 OD	 Working Pressure		 Bursting Pressure		 Max Length
	Inch	mm	mm	BAR	PSI	BAR	PSI	MTR
04	1/4	6.3	12.7	14	200	56	800	100+
05	5/16	8	14.3	14	200	56	800	100+
06	3/8	10	16.7	14	200	56	800	100+
08	1/2	12.5	20	14	200	56	800	100+
12	3/4	20	28.5	14	200	56	800	100+
16	1	25	33.5	14	200	56	800	100+

9) TRACTOR TROLLEY HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Made from **synthetic rubber** that is specifically designed to resist hydraulic fluids, ensuring reliable performance in agricultural machinery.

Reinforcement:

Available with **single or double high-tensile steel wire braiding**, providing the necessary strength to withstand hydraulic pressure in rugged conditions.

Outer Cover (COVER):

Encased in **synthetic rubber** that is resistant to **oil, weather exposure, and abrasion**, enhancing the hose's durability and lifespan in outdoor and harsh environments.

Applicable Standards:

Manufactured in accordance with **Standard IJ100**, ensuring performance and safety in hydraulic operations.

Temperature Range:

Capable of operating within a broad temperature range from **-40°C to +100°C**, suitable for year-round use in varying climates.

Hose Dimensions:

- **Internal Diameter (ID):** 9.5 mm to 12.7 mm
- **Outer Diameter (OD):** 17.4 mm to 20.2 mm

Primary Applications:

This hose is **specifically designed for hydraulic functions in tractors and agricultural trolleys**.

- It delivers reliable hydraulic fluid transmission to lifting, steering, and braking systems.
- Ideal for use in **farming, agricultural machinery**, and **rural transport operations** requiring durable and flexible hydraulic lines.

DASH SIZE	REINFORCEMENT	 ID		 OD	 Working Pressure		 Bursting Pressure		 MIN. Bending Radius		 Max Length
		Inch	mm	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
06	SINGLE	3/8"	9.5	17.5	180	2610	720	10,440	130	5.12	100+
08	SINGLE	1/2"	12.7	20.4	138	2000	414	6,000	130	5.12	100+
06	DOUBLE	3/8"	9.5	18.5	330	4785	990	14,350	130	5.12	100+
08	DOUBLE	1/2"	12.7	22.0	172	2500	552	8,000	152	6.0	100+

10) AIR BRAKE HOSE

TECHNICAL SPECIFICATIONS

Inner Tube (TUBE):

Made from **black synthetic rubber** that is specially formulated to resist oil, making it ideal for use with compressed air in vehicle brake systems.

Reinforcement:

Built with **high-quality EPDM (Ethylene Propylene Diene Monomer) rubber**, which provides internal strength and flexibility while maintaining resistance to heat and pressure.

Outer Cover (COVER):

Also made of **premium EPDM rubber**, known for its excellent resistance to weathering, ozone, heat, and abrasion—ensuring the hose remains durable even in demanding automotive environments.

Applicable Standards:

Compliant with **SAE J1402 Type-A**, the international standard for air brake hoses used in automotive and commercial vehicle applications.

Temperature Range:

Designed to function efficiently in temperatures ranging from **-40°C to +100°C**, suitable for both cold and hot weather conditions.

Hose Dimensions:

- **Internal Diameter (ID):** 6 mm to 16 mm
- **Outer Diameter (OD):** 15.5 mm to 27 mm

Primary Applications:

Specifically designed for **automotive air brake systems**, including:

- **Commercial vehicles**, trucks, and trailers
- **Air brake lines and interconnections**
- **Other pneumatic brake and control systems**

This hose ensures **safe and reliable transmission of compressed air** required for braking performance.

DASH SIZE										
	ID	OD	Working Pressure		Bursting Pressure		MIN. Bending Radius		Max Length	
	Inch	mm	mm	BAR	PSI	BAR	PSI	Inch	mm	MTR
6	1/4	6.4	15.9	10	145	60	870	2.6	65	100+
8	5/16	7.9	17.5	10	145	60	870	3.0	75	100+
10	3/8	9.5	19.06	10	145	60	870	3.5	90	100+
11	7/16	11.1	20.6	10	145	60	870	3.9	100	100+
12	1/2	12.8	22.2	10	145	60	870	3.9	100	100+
16	5/8	15.9	27.01	10	145	60	870	4.5	115	100+

11) S.S. CORRUGATED HOSE

Construction and Applications

Materials & Standards Compliance:

These flexible hoses are manufactured from **high-grade austenitic stainless steels** such as **SS 316, SS 316L, and SS 304**. The manufacturing process strictly adheres to **BS 6501 (Part 1: 2004)** and **ISO 10380:2012** standards. These materials and construction practices ensure that the hoses are **durable, pressure-resistant, and flexible**, making them suitable for a wide range of demanding industrial applications.

Available Sizes:

The hoses are produced in a wide range of sizes — starting from **1/4 inch up to 12 inches** — to meet various operational needs.

Braiding for Pressure Strength:

When internal pressure is applied, unbraided hoses tend to **stretch in length**. To counter this, a **braided layer of stainless steel wire** is added to the outer surface.

- This **braid enhances pressure resistance** and helps maintain the hose's shape.
- **One to three layers** of braiding can be used depending on the working pressure requirement.
- The braid is usually made from **SS 304 wire**, but **SS 316** can also be used when higher corrosion resistance is needed.
- **Custom braiding options** are available based on client specifications.

Performance and Flexibility:

The braided layer is **flexible** and moves seamlessly with the hose, allowing for **ease of use in systems with frequent movement or vibration**. It prevents overstretching while maintaining flexibility.

Common Applications:

Stainless steel flexible hoses are used across a variety of sectors, including:

- **Oil Refineries**
- **Power Generation Plants**
- **Steel and Nuclear Facilities**
- **Fertilizer, Chemical, and Pharmaceutical Industries**
- **Cryogenic Services**
- **Boilers and Paper Manufacturing Units**
- **Lubrication Systems and Automotive Equipment**
- **Ports, Shipyards, and Marine Applications**
- **Steam and Hot Water Transfer**
- **Vibration Isolation Systems**