

JK Pioneer

INDUSTRIAL HOSES



**SAND
BLASTING**



**FUEL
OUTLET**



**WELDING
INDUSTRY**



**CNG
FUELLING**



JK Pioneer PNEUMATIC TOOL HOSE IS:446 TYPE 2



Tube:
Reinforcement:
Cover:
Working Temperature:
MAIN APPLICATIONS

Synthetic Rubber -Modified SBR-Black
 One or, Two Braid of High tenacity yarn.
 Weather & Abrasion resistance NBR-PVC -Black.
 From -30 °C to +70 °C continuous operation.
 These Hoses are intended to be used on all types of Pneumatic Tools for compressed air in different Industries.
 Meet Exceeds performance requirement of IS:446-Type 2

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/4	6.3	13.6	200	14	800	56	75
5/16	8.0	15	200	14	800	56	95
3/8	10.0	17	200	14	800	56	100
1/2	12.5	20.5	200	14	800	56	125
5/8	16.0	23.5	200	14	800	56	140
3/4	20.0	28.5	200	14	800	56	150
1	25.0	35.5	200	14	800	56	200
1 1/4	31.5	43	200	14	800	56	250
1 1/2	38.0	50	200	14	800	56	300
2	50.0	64	200	14	800	56	425

JK Pioneer AIR WATER IS:444 TYPE 2



Tube:
Reinforcement:
Cover:
Working Temperature:
MAIN APPLICATIONS

Synthetic Rubber -Modified SBR-Black
 One or, Two Braid of High tenacity yarn.
 Weather & Abrasion resistance NBR-PVC -Black.
 From -30 °C to +70 °C continuous operation.
 An economical Air and water hose, for a wide range of industrial, workshops, construction and agricultural & Irrigation etc.
 Meet Exceeds performance requirement of IS:444 Type 2

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/2"	12.5	20.5	175	12	525	36	125
3/4"	20	28.5	175	12	525	36	150
1"	25	35.5	175	12	525	36	200
1-1/4"	31.5	42.5	175	12	525	36	250
1-1/2"	38	50	175	12	525	36	300
1-3/4"	45	57.5	175	12	525	36	300
2"	50	63.5	175	12	525	36	425

JK Pioneer ROCKDRILL HOSE IS:446 TYPE 3



- Tube:** Synthetic Rubber -Modified SBR-Black
- Reinforcement:** One or, Two Braid of High tenacity yarn.
- Cover:** Weather & Abrasion resistance NBR-PVC-Black.
- Working Temperature:** From -30 °C to +70 °C continuous operation.
- MAIN APPLICATIONS** Used for Air supply in Industrial construction & mining in Air Drills.
Meet Exceeds performance requirement of IS:444 Type 3

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/2"	12.5	22	300	21	1200	84	125
3/4"	20	28.5	300	21	1200	84	150
1"	25	38	300	21	1200	84	200
1-1/4"	31.5	44	300	21	1200	84	250
1-1/2"	38	52	300	21	1200	84	300
2"	50	66	300	21	1200	84	300

JK Pioneer HD AIRDRILL HOSE



- Tube:** Synthetic Rubber -Modified SBR-Black
- Reinforcement:** One Braid of Braid of Brass coated high tensile steel wire.
- Cover:** Weather & Abrasion resistance NBR-PVC-Black. All sizes comes with perforated cover.
- Working Temperature:** From -30 °C to +70 °C continuous operation.
- MAIN APPLICATIONS** Used for High Pressure Air supply in Industrial construction & mines.
Meet Exceeds performance requirement of IS:444 Type 3

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/2"	12.5	23.0	575	40	2300	160	70
3/4"	20	28.5	575	40	2300	160	100
1"	25	37.0	575	40	2300	160	125
1-1/4"	31.5	44.0	575	40	2300	160	175
1-1/2"	38	49.5	575	40	2300	160	200
2"	50	63.5	575	40	2300	160	300

JK Pioneer HI TEMP AIRDRILL HOSE



Tube:

Reinforcement:

Cover:

Working Temperature:

MAIN APPLICATIONS

Oil Resistance Synthetic Rubber -Modified NBR-Black
 One Braid of Braid of Brass coated high tensile steel wire.
 Weather & Abrasion resistance NBR-PVC-Black.
 All sizes comes with perforated cover.
 From -30 °C to +110 °C continuous operation.
 Used for High Pressure Air supply in Industrial construction & mines
 This Hose is designed to work at higher temperature in Waterwell Rig Segment.

HOSE ID		NOM. HOSE OD		MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	mm	PSI	BAR	PSI	BAR	mm
1-1/4"	31.5	44	44	500	35	2000	140	200
1-1/2"	38	49.5	49.5	500	35	2000	140	250
2"	50	63.5	63.5	500	35	2000	140	350

JK Pioneer CARBON FREE HOSE



Tube:

Reinforcement:

Cover:

Working Temperature:

MAIN APPLICATIONS

Specially No carbon compounded NBR-Off White
 One or, two Braid of High tenacity yarn.
 Weather & Abrasion resistance NBR-PVC-Green
 From -40 °C to +100 °C continuous operation.
 In Induction furnace cable cooling application in steel Industries
 and other non- conductive applications Specially developed
 Tube, Cover & Hose composite meets service requirement of
 Low leakage current (Less than 20 micro amps current @6000 Volt DC.

HOSE ID		NOM. HOSE OD		MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	mm	PSI	BAR	PSI	BAR	mm
3/8	10.0	17.5	17.5	250.0	17.5	1000.0	70.0	75.0
1/2	12.5	21.5	21.5	250.0	17.5	1000.0	70.0	100.0
3/4	20.0	31.0	31.0	250.0	17.5	1000.0	70.0	150.0
1	25.0	37.5	37.5	250.0	17.5	1000.0	70.0	150.0
1 1/4	31.5	45.0	45.0	250.0	17.5	1000.0	70.0	195.0
1 1/2	38.0	52.0	52.0	250.0	17.5	1000.0	70.0	200.0
2	50.0	66.0	66.0	250.0	17.5	1000.0	70.0	300.0

JK Pioneer COMPRESSOR HOSE FOR HOT AIR



- Tube:** Oil Resistance Synthetic Rubber -CPE-Black
Reinforcement: Two Braid of Braid of Brass coated high tensile steel wire.
Cover: Heat, Weather & Abrasion resistance Synthetic Rubber -Black.
 All sizes comes with perforated cover.

MAIN APPLICATIONS

Used for High Pressure & High temperature air supply in Heavy Duty compressors used in Ground Drilling for construction, Mines & General Industry. Compounds are designed to withstand High Air Temperature up to 135 °C in Heavy Duty Drill Rig compressor up to 1100 CFM capacity.

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1-1/2"	38	53.0	1250	86	5000	344	500
2"	50	66.0	1160	80	4640	320	600

JK Pioneer HI STEAM HOSE



- Tube:** Extreme Heat resistance EPDM-Black
Reinforcement: One or, Two Braid of Brass coated high tensile steel wire.
Cover: Extreme Heat & Weather resistance EPDM -Black.
Working Temperature: From -40 °C to +205 °C continuous operation.

MAIN APPLICATIONS

For Steam-Saturated & Super saturated up to 250 PSI & 205°C application. It is used in refineries, shipyards, chemical plants, steel mills, foundries and heavy industrial applications, Tire curing bagomatic Press etc.

NOTE:

Don't alternate change between Steam & Hot Water.
 Meet Exceeds performance requirement of IS:10655 Type 3 & BS 5342 Type 2.

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/2	12.5	23.5	250.0	17.0	1000.0	170.0	150.0
3/4	20.0	30.5	250.0	17.0	1000.0	170.0	200.0
1	25.0	36.8	250.0	17.0	1000.0	170.0	250.0
1 1/4	31.5	45.5	250.0	17.0	1000.0	170.0	300.0
1 1/2	38.0	53.4	250.0	17.0	1000.0	170.0	400.0
2	50.0	67.0	250.0	17.0	1000.0	170.0	625.0

JK Pioneer CAR WASH HOSE



- Tube:** Synthetic Rubber -Modified NBR-Black
Reinforcement: One or, Two Braid of High tenacity yarn.
Cover: Oil & Abrasion resistance Modified NBR-Black.
Working Temperature: From -30 °C to +70 °C continuous operation.
MAIN APPLICATIONS A light weight, economical high-pressure hose for carrying air, water for car washing & Pressure Washing applications in Garage, Service stations & Industries.
 Meet Exceeds performance requirement of IS:444 Type-3B

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/8	10	19.5	400	28	1160	80	100
1/2	12.5	22	400	28	1160	80	125

JK Pioneer AGRICULTURE SPRAY HOSE



- Tube:** Synthetic Rubber -Modified NBR-Black
Reinforcement: One or, Two Braid of High tenacity yarn.
Cover: Oil & Abrasion resistance Modified NBR-Black.
Working Temperature: From -30 °C to +70 °C continuous operation.
MAIN APPLICATIONS A lightweight, economical high-pressure hose for carrying air, water and water based pesticides spray solutions In agricultural applications:
NOTE: **Not to be used for Paint spray applications.**
 Meet Exceeds performance requirement of IS:1677 Type-C

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/8	10	20.5	798	55	3192	220	100
1/2	12.5	23.5	798	55	3192	220	125

JK Pioneer MILD CHEMICAL HOSE



- Tube:** Synthetic Rubber -Modified EPDM-Black
Reinforcement: One or, Two Braid of High tenacity yarn.
Cover: Weather & Abrasion resistance EPDM-Black.
Working Temperature: From -30 °C to +100 °C continuous operation.
MAIN APPLICATIONS For conveying dilute chemicals such as Hydraulic acid, Sulphuric acid, Alums liquor, Caustic Soda, Methyl/Ethyl/Butyl Alcohol, etc.
NOTE: **Contact JK Fenner Representative for any particular chemical use.**
 Meet Exceeds performance requirement of IS:7654 Type I&2.

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/2	12.5	22.5	145.0	10.0	580.0	40.0	125.0
3/4	20.0	30.0	145.0	10.0	580.0	40.0	150.0
1	25.0	37.5	145.0	10.0	580.0	40.0	200.0
1 1/4	31.5	44.0	145.0	10.0	580.0	40.0	250.0
1 1/2	38.0	52.0	145.0	10.0	580.0	40.0	300.0
2	50.0	64.5	145.0	10.0	580.0	40.0	300.0

JK Pioneer FIRE EXINGUISHER HOSE FOR CO2 APPLICATION-1 WIRE BRAID



- Tube:** Specially compounded Synthetic Rubber -Black
Reinforcement: One Braid of High Tensile Steel wire.
Cover: Weather & Abrasion resistance EPDM Rubber -Black.
Note: Also available in NBR Tube & NBR Cover
Working Temperature: From -40 °C to +100 °C continuous operation.
MAIN APPLICATIONS Use in CO2 Based Fire extinguisher Application . Safety factor 1:2.5
CAUTION: **Don't use this hose as in Hydraulic or, Tractor trolley application.**

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/8	10	17.5	2465	170	6160	425	125



SAND BLAST HOSE



Tube: Highly Abrasion resistant, Synthetic Rubber-Black
Reinforcement: One or, Two Braid of High tenacity synthetic Yarn. Two Copper wire in opposite direction.
Cover: Abrasion Resistant, NR-SBR -Black.
Working Temperature: From -30°C to +70°C continuous operation.
MAIN APPLICATIONS For conveying abrasive material like Sand or, Shot blasting, Mineral ores & other abrasive materials. Extra thick tube of 5.00 mm plus ensures its long life in application. Two Copper flex wires added in braiding in cross direction ensures the static charge dissipation.
 Meet Exceeds performance requirement of IS:5894

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/4	20.0	39.0	145.0	10.0	435.0	30.0	200.0
1	25.0	45.0	145.0	10.0	435.0	30.0	300.0
1 1/4	31.5	53.0	145.0	10.0	435.0	30.0	400.0
1 1/2	38.0	59.0	145.0	10.0	435.0	30.0	450.0
2	50.0	73.0	145.0	10.0	435.0	30.0	500.0

SUPREME SAND BLAST HOSE



Tube: Highly Abrasion resistant, & Conducting Synthetic Rubber-Black
Reinforcement: One or, Two Braid of High tenacity synthetic Yarn.
Cover: Abrasion Resistant, NR-SBR -Black.
Working Temperature: From -30°C to +70°C continuous operation.
MAIN APPLICATIONS These are compact Hoses for conveying abrasive material like Sand or, Shot blasting, Mineral ores & other abrasive materials where Working pressure requirement is 14 Bar.
 Tube is conducting in nature, so need for Copper wire is not required. Bend Radius is tighter than Sandblast Hose which ensures it remain more flexible compared to same size Sandblast Hose

HOSE ID		NOM. HOSE.OD	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/4	20.0	33.5	200.0	14.0	800.0	56.0	175.0
1	25.0	39.5	200.0	14.0	800.0	56.0	225.0
1 1/4	31.5	48.5	200.0	14.0	800.0	56.0	250.0
1 1/2	38.0	55.0	200.0	14.0	800.0	56.0	300.0
2	50.0	67.5	200.0	14.0	800.0	56.0	400.0

JK Pioneer CNG HOSE SAEJ30R6 & IS:15722



Tube: Specially compounded Oil resistance NBR-Black
Reinforcement: One Braid of High tenacity yarn.
Cover: Oil & Ozone resistance NBR/PVC-Black.
Working Temperature: From -40 °C to + 100 °C continuous operation.
MAIN APPLICATIONS These Hoses are intended to be used on motor vehicles, 2- wheeler, & construction equipment's (CEV) as a flexible low pressure CNG Fuel system components having service Pressure not exceeding 21.5 Bar.

CAUTION: This is not to be used in Liquefied Natural gas (LNG) fuel system components located upstream of & in Vaporizer. Fuel containers. Stationary Gas Engines. CNG Fuel systems for Marine craft Propulsion. Conforms to SAE J30 R6 & IS 15722 specifications.

HOSE ID		NOM. HOSE.O.D	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
1/4	6.3	12.8	300.0	21.0	700.0	48.0	75.0
5/16	8.0	14.0	300.0	21.0	700.0	48.0	90.0
3/8	10.0	15.8	300.0	21.0	700.0	48.0	100.0
1/2	12.5	19.8	300.0	21.0	700.0	48.0	125.0
5/8	16.0	23.8	300.0	21.0	700.0	48.0	150.0
3/4	20.0	28.5	300.0	21.0	700.0	48.0	150.0
1	25.0	34.5	300.0	21.0	700.0	48.0	200.0

WELDING HOSE (RED & BLUE COVER) IS: 447

Tube: Synthetic Rubber --Black
Reinforcement: One Braid of High tenacity yarn.
Cover: Synthetic Rubber-Blue & Red.
Working Temperature: From -30 °C to +70 °C continuous operation.
MAIN APPLICATIONS A light weight, economical hose for use in Welding equipment carrying Oxygen & Acetylene Gas. Red Cover is used for Acetylene or, other fuel gas & Blue for Oxygen or, other non combustible gas. Meet Exceeds performance requirement of IS:447

HOSE ID		NOM. HOSE.O.D	MAX. WORKING PRESSURE		MIN.BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
5/16	8	15	250	17.5	1000	70	95
3/8	10	17	250	17.5	1000	70	100



JK Pioneer HARD WALL PETROL/DIESEL DISPENSING HOSE



- Tube:** Specially compounded Fuel resistance NBR-Black
- Reinforcement:** One Braid of Brass coated high tensile steel wire.
- Cover:** Weather, Oil & Abrasion resistance NBR-PVC-Black.
- Working Temperature:** From -30 °C to +55 °C continuous operation.

MAIN APPLICATIONS

For Dispensing all Types of Petrol & Diesel Fuels at Service station Pumps. Heavy Duty wire braided construction does not collapse in reel use or, behind the Nozzle in demanding service conditions.
Meet Exceeds performance requirement of EN 1360 Grade M, Type 3.

HOSE ID		NOM. HOSE OD	MAX. WORKING PRESSURE		MIN. BURST PRESSURE		MINIMUM BEAND RADIUS
INCH	mm	mm	PSI	BAR	PSI	BAR	mm
3/4	19	28.00	250	17	750	51	100
1	25	34.50	250	17	750	51	150

CONVERSION TABLE

	UNIT	CONVERSION UNIT	FACTOR
PRESSURE	1 pound per square-inch	bar	0.06895
	1 bar	psi	14.5035
	1 pound per square-inch	MPa	0.006895
	1 mega pascal	psi	145.035
	1 kilo pascal	bar	0.01
	1 bar	kPa	100
	1 mega pascal	bar	10
	1 bar	MPa	0.1
	1 inch	mm	25.4
	1 millimetre	in	0.03934
LENGTH	1 foot	m	0.3048
	1 metre	ft	3.28084
	1 square-inch	cm ²	6.4516
AREA	1 cubic centimetre	cubic in	0.0610
	1 gallon (UK)	ltr	4.54596
VOLUME	1 litre	gal (UK)	0.219976
	1 gallon (US)	ltr	3.78533
	1 litre	gal (US)	0.264177
WEIGHT	1 pound	kg	0.453592
	1 kilogramme	lb	2.204622
	1 gallon per minute (UK)	l / min	0.54596
FLOW RATE	1 litre per minute	gal / min. (UK)	0.219976
	1 gallon per minute (US)	l / min.	3.78533
	1 litre per minute	gal / min. (US)	0.264178
VELOCITY	1 foot per second	m / s	0.3048
	1 metre per second	ft / s	3.280840
TEMPERATURE	Fahrenheit degree	°C	5/9 (°F-32)
	Celsius degree	°F	°C 9/5+32

PSI TO METRIC			
Pounds per Square Inch (psi)	Kilo Pascals (KPa)	Mega Pascals (MPa)	Bar (Bar)
10	68.9	0.07	0.7
20	137.9	0.14	1.4
30	206.8	0.21	2.1
40	275.8	0.28	2.8
50	344.7	0.34	3.4
60	413.7	0.41	4.1
70	482.6	0.48	4.8
80	551.6	0.55	5.5
90	620.5	0.62	6.2
100	689	0.7	6.9
200	1,379	1.4	13.8
300	2,068	2.1	20.7
400	2,758	2.8	27.6
500	3,447	3.4	34.5
600	4,137	4.1	41.4
700	4,826	4.8	48.3
800	5,516	5.5	55.2
900	6,205	6.2	62.1
1,000	6,895	6.9	68.9
2,000	13,790	13.8	137.9
3,000	20,684	20.7	206.8
4,000	27,579	27.6	275.8
5,000	34,474	34.5	344.7
6,000	41,369	41.4	413.7
7,000	48,263	48.3	482.6
8,000	55,158	55.2	551.6
9,000	62,053	62.1	620.5
10,000	68,948	68.9	689
20,000	137,895	137.9	1,379
30,000	206,843	206.8	2,068
40,000	275,790	275.8	2,758

METRIC TO PSI			
Kilo Pascals (KPa)	Mega Pascals (MPa)	Bar (Bar)	Pounds per Square Inch (psi)
100	0.1	1	14.5
200	0.2	2	29.0
300	0.3	3	43.5
400	0.4	4	58.0
500	0.5	5	72.5
600	0.6	6	87.0
700	0.7	7	101.5
800	0.8	8	116.0
900	0.9	9	130.5
1,000	1.0	10	145.0
2,000	2.0	20	290.1
3,000	3.0	30	435.1
4,000	4.0	40	580.2
5,000	5.0	50	725.2
6,000	6.0	60	870.2
7,000	7.0	70	1,015.3
8,000	8.0	80	1,160.3
9,000	9.0	90	1,305.3
10,000	10.0	100	1,450
20,000	20.0	200	2,901
30,000	30.0	300	4,351
40,000	40.0	400	5,802
50,000	50.0	500	7,252
60,000	60.0	600	8,702
70,000	70.0	700	10,153
80,000	80.0	800	11,603
90,000	90.0	900	13,053
100,000	100	1000	14,504
200,000	200	2000	29,008
300,000	300	3000	43,511