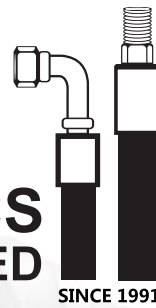




**PATEL HYDRAULICS  
PRIVATE LIMITED**



SINCE 1991

lifeline  
of your  
machines

Hydraulic Fittings &  
Hose Assemblies  
Manufacturer

Hose Dealer



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# About Us

Established in the year 1991, "**Patel Hydraulics Private Limited**" is a renowned manufacturer of hydraulic fittings and hose assemblies. We are one of the largest and most trusted manufacturer of Gujarat state, proudly celebrating 25 years of success.

We have been engaged in the manufacturing of hydraulic fittings like **nut, outer, interlock, flanges, elbow, tee, crimp type fittings** and manufacturing hose assemblies with customized size and fittings. We are dealer of **Parker hose** and **Superseal hose**. We offer hoses like **single wired braided, double wired braided, spiral hoses**. We also offer **S.S. corrugated hoses and low pressure hoses**. We boast of versatile client base from various fields including construction, mining, agriculture, oil field services, automotive, material handling and transportation industries.

We are specialized in the processing and manufacturing of high quality hoses. We insistently believe in producing only superior quality hoses and for that we use the world class machineries and modern technology such as **CNC Machines, Crimping Machines and Assembly Machines**.

Today our hydraulic fittings and hose assemblies are preferred by most of the customers in domestic market due to Good Quality, Economical Performance, Less Maintenance Cost, higher performance on price ratio and it's prompt effective after sales service provided by us.

We offer Qualitative products at competitive prices with Fair and transparent deals. We are committed to deliver our clients custom made business solutions suited to their specific needs and satisfaction.

## **MANAGING DIRECTOR**

**Mr. Ashok Patel**, managing director of the company incorporated Patel hydraulics private limited in 1991. Started as a small entity but with his exertion and sharp business acumen he transformed a small unit into such a huge enterprise. With his entire farsightedness, Mr. Ashok Patel always focused on maintaining customer relation by providing quality material at reasonable rates besides he relentlessly tried to become helpful to customers and that was the corner stone of his success. In the business keeping this in view he achieved brilliant success in every stage of his life.

In the vision of company's growth, he unequivocally emphasize to expand customer base by providing novel technology and quality products at the same time putting up continuous endeavor to assess and understand the need of customers along with fulfilling their expectations.

## CRIMPED TYPE INTERLOCK

- Crimped nut permanently attached to tubing with a powered crimper. The fitting, manufactured with a pre-installed nut slide over the inner to be connected.
- Nut compresses the inner well, creating a leakproof seal.
- The advantages of this method are durability, speed and safety.
- Long lasting rigid connection
- Better accuracy against leakages
- Extraordinary design with precise work
- Dimensional accuracy extra high strength compared to other types of interlock fitting



## Hex Nut

- Accurate and smooth finish threads
- Easy installation and high tensile strength
- Endurance to abrasion and resistance to atmospheric conditions



## Hose Ferrule Cap

- Heavy duty against high impulse
- Perfectly crimped to grip the hose
- Strong compactness
- Code punching on outer cap for identification
- Ferrule cap from 1/4 to 2 inch diameter for spiral hose high pressure hose, low pressure hose



## Interlock Male Type

- Machined hose ends with smooth end detail to reduce potential failure due to abrasion - grips, seals, and protects hose.
- Interlock groove locks ferrule into place for superior holding power



## Hose Nipple with Nut

- Easy availability in domestic market
- Low cost compare to crimp type fitting
- Separate nut without crimp to nipple more advantage at time of reuse
- Reusable fittings



## Bend Interlock

- Bend fitting withstand high impulse flow without drop of pressure
- Perfect radius 45 and 90 degree bend type interlock fitting
- Regular and long bend inner



## Flange Straight Type

- SAE flange code 61  
30.25 mm to 71.42 mm
- SAE flange code 62  
31.75 mm to 79.38 mm
- Flanges for ½" to 2" hose  
internal diameter



## Flange Bend Type

- Working pressure flange code 61 3000 PSI  
& Flange Code 62 6000 PSI
- 45 degree bend and 90 degree bend



## Benjo Bolt

- A banjo fitting comprises a perforated hollow bolt and spherical union for fluid transfer.
- Avoids risk of damage by twisting the hose when screwing the fitting into place.
- It also allows the pipe exit direction to be adjusted relative to the fitting, then the bolt tightened independently.



## Adapter



- For connecting extremely high, medium and low pressure
- Optimum work adaptability adaptor
- Perfect threads and dimensions work as per international standards

## Reducer



- Reducer for different flow on both side
- High durable and flawless threads

## Half Plug



- Hexagonal head plug for closing and terminating the end of a pipe
- Male threads for use with female threaded fittings

## Elbow



- With pressure balanced design of two types of elbow 45 and 90 degree angle
- To end problems of Breakage And Leakages of hose from bend radius issue
- Both End Side Elbow Types
  - Male X Male
  - Female X Female
  - Female (Swivel) X Female (Swivel)
  - Male X Female
  - Male X Female (Swivel)
  - Female X Female (Swivel)

## Tee



- As per threads requirement for three different side of tee shape fitting with male, female and female swivel type
- Applicable For Hose End Adaptors – Hose To Port, Hose To Hose.

## O Ring Seal



- All hydraulic fittings with o-rings and dowty seals for superior accuracy against leakages

- *We make hydraulic fittings with all different international thread standards of BSP, JIC, METRIC, BSPT, NPTF, ORFS and others as per requirements.*
- *We also make Customized hydraulic fittings as per your technical specification & design.*
- *We make all our hydraulics fittings on CNC machines.*

# Hoses Working Pressure Chart

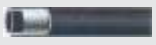
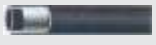


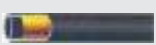





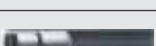



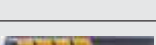
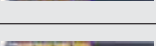
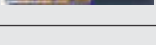
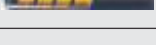







## select hoses as per requirements-A

Hose Size	Hose Reinforcement	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2	2.1/4	2.3/8	2.1/2	3	3.1/2	4	Standard Temp. Range °F	SAE	EN
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-36	-38	-40	-48	-56	-64			
421SNMSHA		3265	3120	2610	2320	1890	1525	1275	915	725	580							-40/+212	100R1AT	853 1SN
421SNPM													362	362	290	220	145	-40/+212		
421SNPM HITEMP		3265	3120	2610	2320	1890	1525	1275	915	725	580							-40/+212		853 1SN
301SNMSHA		5800	5100	4800	4000	3600	3100	2400	1800	1300	1160							-40/+212	100R2AT	853 2SN
301SNPM													1015	1000	650	400	365	-40/+212		
301SNPM HITEMP		5800	5100	4800	4000	3600	3100	2400	1800	1300	1160							-40/+275		853 2SN
MBR 421SNPM									425									-40/+212	100R1AT	
MBR 301SNPM											1160							-40/+212	100R2AT	
436PM		5000		4000	3500	2750	2250	2000	1625	1250	1125							-55/+302	100 R16	
PERPETUITY (465PPT)		6520	5800	5290	5070	4350	4350	3260										-40/+120		
POWERFLEX (PFFM)		5800	5100	4800	4000	4000	4000	3600										-40/+212		
SLIMLINE (EN857PM)		3265	3120	2610	2320	1885	1525	1275										-40/+212		857 1SC
PILOT HOSE (401)		2170	1740	1450	1450													-40/+248		
KISAN TROLEY (KTPM)				1740	1740													-40/+212		
SLIM HOLE (3WIREPM)														1500				-40/+250		
SLIM HOLE (4WIREPM)														2600	1375			-40/+250		
SLIMLINE (462PM)		5800	5075	4785	3990	3625	3120	2395										-40/+212		857 2SC
MH 174PM (BCS 174-1999)		6525		5510	5250	4060	4000	3120	2495	2120	1625							-40/+212		
SLIMPAC (431PM)		5000	4250	4000	3500	2750	2250	2000	1625									-40/+212	100R16	
TRI-K-FLEX (451PM)		3045	3045	3045	3045	3045	3045	3045										-40/+212	100R17	
540N		2750	2500	2250	2000	1250												-40/+212	100R7	
520N		5000	4500	4000	3500	2750												-40/+212	100R8	
SUPERJACK (JKPM)		10000	10000															-40/+212		
R5RPM		3000	3000	2250	2000	1750	1500	800	625	500	350		350					-40/+212	100R5R	
601PM		1250	1200	1125	1000	875	750	565	375	250	215							-40/+212	100R3	854
881PM						300	250	200	150	100			62	55				-40/+212	100R4	



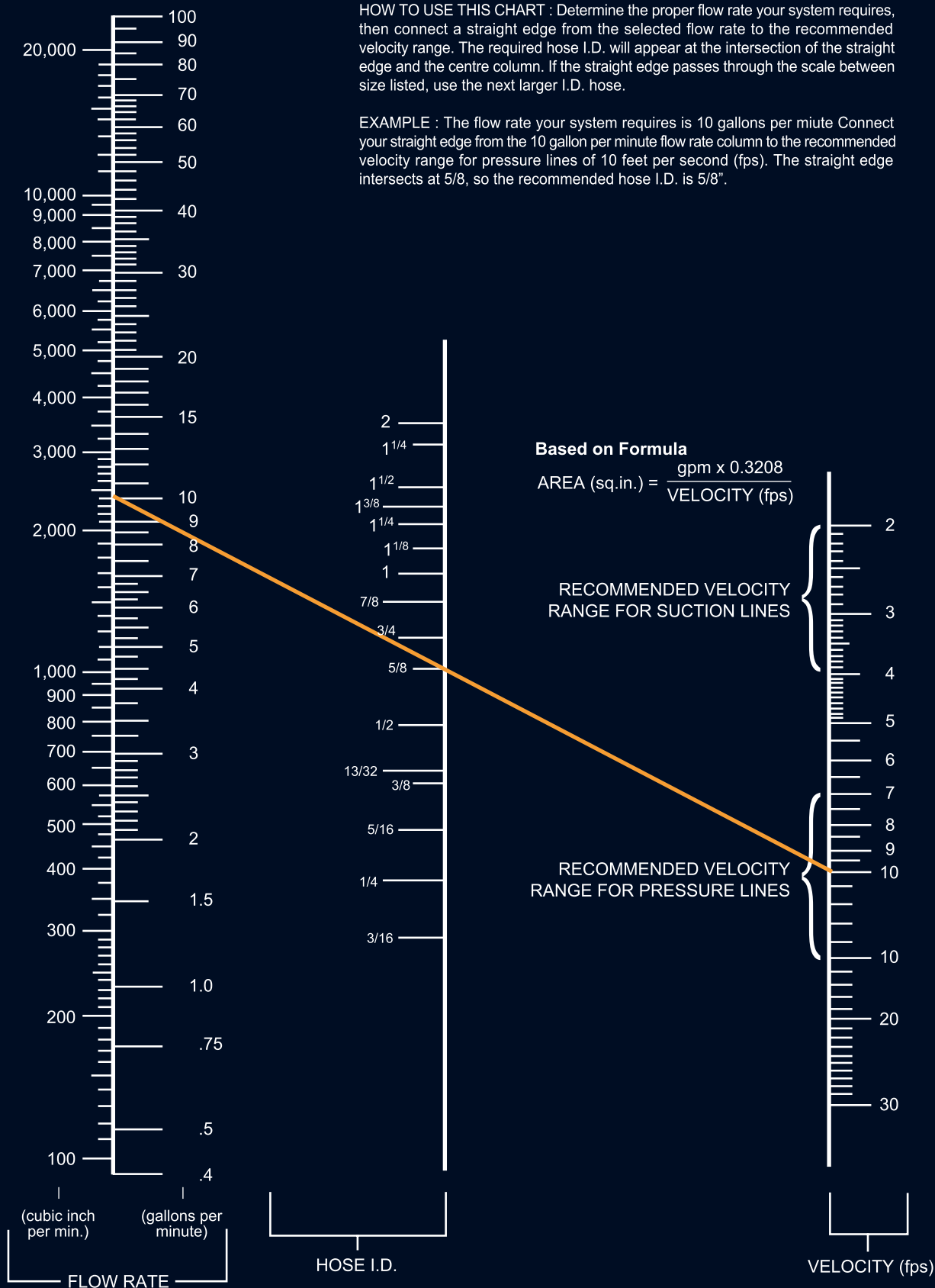
# Hoses Working Pressure Chart

## select hoses as per requirements-B

Hose Size	Hose Reinforcement	1/4	5/16	3/8	1/2	5/8	3/4	1	1.1/4	1.1/2	2	2.1/4	2.3/8	2.1/2	3	3.1/2	4	Standard Temp. Range F°	SAE	EN	
		-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-36	-38	-40	-48	-56	-64				
SAE100R6PM		400	400	400	400	350	300	190											-40/+212	100R6	854
1TEPM		360	290	290	230	230	175	175											-40/+212		854
2TEPM		1090	985	915	840	725	655	580											-40/+275		854
3TEPM		2105	1885	1595	1350	1160	1015	800	650	580	480								-40/+212		854
AIRMASTER (AMHPM)								500	500	500	500								-31/+212		
AIR / WATER HOSE (WHPM)				170			170	170											-30/+82		
PNEUMATIC TOOL HOSE (AHPM)		200	200	200	200		200	200											-30/+82		
LPGPM (BS4089:1989 TYPE 1)				362	362	362	362	362	362	362	362								-20/+113		
BSPHPM (BSEN1360 TYPE 3)						232	232	232											-40/+131		
BSPHPM (BSEN 3395 TYPE 3C)							112	112											-40/+131		
ISPHPM (EXCEEDS IS2396:1988)							116	116											-40/+131		
SH1PM (IS10655 1999 TYPE 2 / BS5342)					150	150	150	150	150	150	150								Upto 363		
SH2PM (IS10655 TYPE 3 / BS5342)					232	232	232	232	232	232	232								Upto 401		
7363R4PM																	50	149			
701MSHA				6500	6000	5000	5000	4000											-40/+212		856 4SP
731MSHA						6000	5500	4700	4200	3600									-40/+212		856 4SH
721MSHA				4000	4000	4000	4000	4000	3000	2500	2500								-40/+257		856 R12
781MSHA							5000	5000	5000	5000	5000								-40/+257		856 R13
792MSHA							6000	6000	6000	6000									-40/+212	100R15	
SB20KPM				8000	8000		8000	8000											-32/+176		
SB25KPM				10000	10000		10000	10000											-32/+176		
SB30KPM				12000	12000		12000	12000											-32/+176		
SB36KPM				14500	14500														-32/+176		
SB50KPM				20000	20000														-32/+176		
3000 OG														3000	3000				-40/+250		

# NOMOGRAM

## Selecting Hose Style by Flow Capacity



# THREAD IDENTIFICATION CHART

	1/4" 4 ID TPI	5/16" 5 ID TPI	3/8" 6 ID TPI	1/2" 8 ID TPI	5/8" 10 ID TPI	3/4" 12 ID TPI	1".16 ID TPI	1 1/4" 20 ID TPI	1 1/2" 20 ID TPI	2" 32 ID TPI	
BSP FEMALE SWIVEL	1/4" 19	3/8" 19	3/8" 19 1/2" 14	1/2" 14 5/8" 14	5/8" 14 3/4" 14	3/4" 14 1" 11	1" 11 1.1/4" 11	1.1/4".11 1/2".11	1.1/2" 11 2" 11	2" 11	
BSP MALE FIXED	1/4" 19 3/8" 19	3/8" 19	3/8" 19 1/2" 14	1/2" 14 5/8" 14	5/8" 14 3/4" 14	3/4" 14 1" 11	1" 11 1.1/4" 11	1.1/4" 11	1.1/2" 11	2" 11	
BSPT MALE FIXED	1/4" 19	3/8" 19	3/8" 19	1/2" 14	5/8" 14	3/4" 14	1" 11	1.1/4" 11	1.1/2" 11	2" 11	
METRIC FEMALE "O"RING SEALINGS	OD SIZE 8 M 12X1.5 8 M 14X1.5 10 M 18X1.5	OD SIZE 10 M14X1.5 10 M16X1.5 12 M20X1.5	OD SIZE 12 M16X1.5 12 M18X1.5 14 M22X1.5	OD SIZE 15 M 22X1.5 16 M 24X1.5	OD SIZE 18 M 26X1.5 20 M 30X2.0	OD SIZE 22 M 30X2 25 M 36X2	OD SIZE 28 M 36X2 30 M 42X2	OD SIZE 35 M 35X2 38 M 52X2	OD SIZE 42 M 52X2		
METRIC MALE FIXED	M 14 X 1.5 M 18 X 1.5	M 16 X 1.5	M 18 X 1.5 M 22 X 1.5	M 22 X 1.5 M 24 X 1.5	M 26X1.5 M 30X2	M 30X2 M 36X2	M 36X2 M 42X2	M 45X2 M 52X2	M 52X2		
JIC MALE/FEMALE FIXED/SWIVEL	1/2" 20 UNF 7/16" 20 UNF 9/16" 18 UNF	9/16" 18 UNF 5/8" 18 UNF	3/4" 16 UNF 9/16" 18 UNF	7/8" 14 UNF 3/4" 16 UNF	1 1/16" 12 UNF 7/8" 14 UNF	1 5/16" 12 UNF 1 1/16" 2 UNF	1 5/16".12 UNF	1 5/8" 12 UNF	1 7/8" 12 UNF	2.1/2" 12 UNF	
JIC MALE SWIVEL	1/2" 20 UNF 7/18" 20 UNF 9/16" 18 UNF	9/16" 18 UNF 5/8" 18 UNF	3/4" 16 UNF 9/16" 18 UNF	7/8" 14 UNF 3/4" 16 UNF	1 1/16" 12 UNF 7/8" 14 UNF	1 5/16" 12 1 1/16" 12	1 5/16" 12 UNF	1 5/8" 12 UNF	1 7/8" 12 UNF	2 1/2" 12 UNF	
NPTF MALE FIXED	1/4" 18 3/8" 18	3/8" 19 1/4" 18	3/8" 19 1/2" 14	1/2" 14 3/4" 14	3/4" 14	3/4" 14 1"-11 1/2	1"-11 1/2 1 1/4"-11 1/2	1 1/4"-11 1 1/2"-11	1 1/2"-11 2"-11	2 1/2"-11	
FACE SEAL ORS SEATING	9/16" 18		11/16" 16	13/16" 16	1" 14	1 3/16".12	1 7/16" 12	1 11/16" 12	2" 12		
SALE SPLIT FLANGE				DIA 30.25 MM DIA 38.1 MM		DIA 38.1 MM DIA 44.45 MM	DIA 44.45 MM DIA 50.8 MM	DIA 50.8 MM DIA 60.33 MM	DIA 60.33 MM DIA 71.42 MM	DIA 71.42 MM	
SALE SPLIT FLANGE				DIA 31.75 MM DIA 41.28 MM		DIA 41.28 MM DIA 47.63 MM	DIA 47.63 MM DIA 53.98 MM	DIA 53.98 MM DIA 63.5 MM	DIA 63.5 MM DIA 79.38 MM	DIA 79.38 MM	



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