



INSAP ENGINEERS PVT. LTD.



SAFE & RELIABLE FLUID / GAS PASSAGE WITH COMPLETE SOLUTION



CATALOGUE



Hydraulic Power Pack



Boat Yard



Earth Moving Equipments



Steel Plant



Medical Oxygen Filling



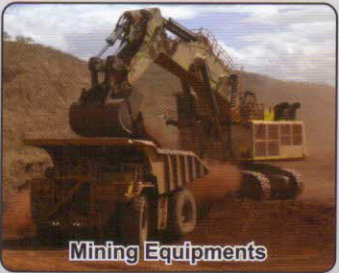
Tyre Curing



Power Plant



Tyre Plant



Mining Equipments



Cryogenic Application



Industrial Gas Filling





Oil and Gas



Experts in Hydraulics, Pneumatics, Utility Services, Gas Cylinder Filling with all International Standards, Chemical Loading & Unloading, Tyre Industries Needs, Aeronatics, Space, Nuclear, Automobile, Earthmoving & Construction, Steel, Cement, Etc.,



Gas cylinder filling hose assemblies provided with safety arrangements to customers' requirements and international standards.





LOW / MEDIUM / HIGH PRESSURE HYDRAULIC APPLICATION HOSES...

EN 853 1SN / SAE100 R1 AT. 	Part Number	Hose ID		Hose OD	Working Pressure		Minimum Bend Radius		Approximately Weight		Type of End Fittings
		Inch.	mm	mm	psi	Bar	Inch.	mm	Lbs/Ft.	Kg/m	
 Construction : Tube – NBR Synthetic Rubber. Reinforcement – One braid steel wire. Cover – NBR-PVC Synthetic Rubber. Temp. – 40 to 100° C	INS-R1-6	1/4	6.4	13.4	3250	225	2.0	50	0.15	0.23	METRIC
	INS-R1-8	5/16	7.9	16.0	3125	215	2.3	58	0.18	1.27	UNF
	INS-R1-10	3/8	9.5	17.4	2600	180	2.5	65	0.22	0.33	BSP / BSPT
	INS-R1-12	1/2	12.7	20.7	2325	160	3.5	90	0.30	0.44	NPT / NPS
	INS-R1-16	5/8	15.9	23.9	1875	130	4.0	100	0.34	0.50	JIS
	INS-R1-20	3/4	19.0	27.8	1525	105	4.8	120	0.46	0.68	ORFS
	INS-R1-25	1	25.4	35.8	1275	88	6.0	150	0.63	0.94	KES
	INS-R1-32	1.1/4	31.8	44.8	900	63	16.5	420	0.97	1.44	SAE J518
	INS-R1-38	1.1/2	38.1	51.0	725	50	20.0	500	1.07	1.59	ANSI
	INS-R1-50	2	50.8	64.5	575	40	25.0	630	1.51	2.25	BS / DIN
INS-R1-65	2.1/2	63.5	77.5	362	25	30.0	762	1.86	2.77	ACME	
INS-R1-80	3	76.2	94.4	290	20	36.0	915	2.59	3.85	CUSTOMER	
INS-R1-100	4	101.6	117.0	145	10	43.5	1005	3.09	4.60	STDs.	

EN 853 2SN / SAE100 R2 AT. 	Part Number	Hose ID		Hose OD	Working Pressure		Minimum Bend Radius		Approximately Weight		Type of End Fittings
		Inch.	mm	mm	psi	Bar	Inch.	mm	Lbs/Ft.	Kg/m	
 Construction : Tube – NBR Synthetic Rubber. Reinforcement – Two braid steel wire. Cover – NBR-PVC Synthetic Rubber. Temp. – 40 to 100° C	INS-R2-6	1/4	6.4	15.0	5800	400	2.0	50	0.26	0.39	METRIC
	INS-R2-8	5/16	7.9	16.6	5000	350	2.2	58	0.29	0.43	UNF
	INS-R2-10	3/8	9.5	19.0	4775	330	2.5	65	0.36	0.53	BSP / BSPT
	INS-R2-12	1/2	12.7	22.3	4000	275	3.5	90	0.42	0.63	NPT / NPS
	INS-R2-16	5/8	15.9	25.5	3600	250	4.0	100	0.50	0.73	JIS
	INS-R2-20	3/4	19.0	29.4	3100	215	4.8	120	0.64	0.95	ORFS
	INS-R2-25	1	25.4	38.1	2400	165	6.0	150	0.91	1.35	KES
	INS-R2-32	1.1/4	31.8	47.5	1800	125	16.5	420	1.52	2.26	SAE J518
	INS-R2-38	1.1/2	38.1	54.5	1300	90	20.0	500	1.58	2.35	ANSI
	INS-R2-50	2	50.8	67.2	1115	80	25.0	630	1.96	2.92	BS / DIN
INS-R2-65	2.1/2	63.5	82.5	1000	69	30.0	762	2.81	4.18	ACME	
INS-R2-80	3	76.2	96.0	650	45	36.0	915	3.18	4.75	CUSTOMER	
INS-R2-100	4	101.6	118.5	365	25	43.5	1005	3.56	5.30	STDs.	

EN 854 R3 / SAE 100 R3 	Part Number	Hose ID		Hose OD	Working Pressure		Minimum Bend Radius		Approximately Weight		Type of End Fittings
		Inch.	mm	mm	psi	Bar	Inch.	mm	Lbs/Ft.	Kg/m	
 Construction : Tube – NBR Synthetic Rubber. Reinforcement – Two fibre brads. Cover – NBR-PVC Synthetic Rubber. Temp. – 40 to 100° C	INS-R3-6	1/4	6.4	14.3	1250	86	3.0	75	0.11	0.17	METRIC
	INS-R3-8	5/16	7.9	17.5	1200	83	4.0	100	0.16	0.24	UNF
	INS-R3-10	3/8	9.5	19.0	1125	78	4.0	100	0.19	0.28	BSP / BSPT
	INS-R3-12	1/2	12.7	23.8	1000	69	4.9	125	0.32	0.47	NPT / NPS
	INS-R3-16	5/8	15.9	27.0	875	60	5.5	140	0.37	0.55	JIS
	INS-R3-20	3/4	19.0	31.8	750	52	5.9	150	0.42	0.63	ORFS
	INS-R3-25	1	25.4	38.1	565	39	8.0	205	0.57	0.85	KES
	INS-R3-32	1.1/4	31.8	44.5	375	26	9.8	250	0.74	1.10	SAE J518
	INS-R3-38	1.1/2	38.1	50.8	250	17	12.0	306	0.82	1.22	ANSI
	INS-R3-50	2	50.8	64.0	215	15	16.1	410	0.91	1.35	BS / DIN
										ACME	
										CUSTOMER	
										STDs.	

EN 100 R4 	Part Number	Hose ID		Hose OD	Working Pressure		Minimum Bend Radius		Approximately Weight		Type of End Fittings
		Inch.	mm	mm	psi	Bar	Inch.	mm	Lbs/Ft.	Kg/m	
 Construction : Tube – NBR Synthetic Rubber. Reinforcement – Multiple layers of fibre brads and one helical wire. Cover – NBR-PVC Synthetic Rubber. Temp. – 40 to 100° C	INS-R4-20	3/4	19.0	29.0	305	21	2.5	40	0.32	0.49	METRIC
	INS-R4-25	1	25.4	35.0	250	17	3.0	55	0.42	0.62	UNF
	INS-R4-32	1.1/4	31.8	42.0	205	14	3.0	70	0.53	0.79	BSP / BSPT
	INS-R4-38	1.1/2	38.1	50.0	145	10	3.9	80	0.75	1.12	NPT / NPS
	INS-R4-50	2	50.8	62.0	145	10	4.9	100	0.89	1.33	JIS
	INS-R4-65	2.1/2	63.5	75.0	145	10	5.9	170	1.21	1.80	ORFS
	INS-R4-80	3	76.2	88.0	145	10	9.1	225	1.45	2.15	KES
	INS-R4-100	4	101.6	118	145	10	20.1	510	2.50	3.70	SAE J518
										ANSI	
										BS / DIN	
										ACME	
										CUSTOMER	
										STDs.	

Remarks : High Temperature EN853 1SN / SAE 100R1 AT & EN853 2SN / SAE 100R2 AT hoses are also available (Temperature Range - 40 to 135° C)

