



THE INTERTRACO HOSE RANGE

Hose international specification	Intertraco hose type	SIZE RANGE													
		Page	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN 856 4SP	Multimax/P4	5	X		X	X	X	X	X						
EN 856 4SH	Multimax/H4	5						X	X	X	X	X			
SAE 100R12	Multimax/12	6			X	X		X	X	X					
Exc. SAE 100R12	Multimax/3000	6								X	X	X			
SAE 100R13	Multimax/13	7								X	X	X			
SAE 100R15	Multimax/15	7							X	X	X				
EN 853 1SN	FlexIT/1T	8	X	X	X	X	X	X	X	X	X	X			
SAE 100R1AT	FlexIT/1T	8	X	X	X	X	X	X	X	X	X	X			
EN 857 1SC	FlexIT/1SC	8	X	X	X	X	X	X	X						
EN 853 2SN	FlexIT/2T	9	X	X	X	X	X	X	X	X	X	X			
SAE 100R2AT	FlexIT/2T	9	X	X	X	X	X	X	X	X	X	X			
EN 857 2SC	FlexIT/216	9	X	X	X	X	X	X	X						
SAE 100R16	FlexIT/216	9	X	X	X	X	X	X	X						
SAE 100R17	FlexIT/317	10	X	X	X	X	X	X	X						
Special forestry	Silvester	10				X	X	X	X						
SAE 100R4	FlexIT/R4	11						X	X	X	X	X	X	X	X

General information on Hydraulic hoses

Our hoses have been designed and tested for hydraulic fluids, both mineral and "biological". They can be used also with oil-water emulsions, water - glycol fluids, for vegetable and mineral oil based lubricants, cooling water, compressed air.

They are not suitable for phosphate ester based hydraulic fluids.

Should you have doubts, please contact us.

For recommended practices for hydraulic hose assemblies, please refer to SAEJ1273 specification.

Please be aware that bad storage can affect hose life. Service life of hose assemblies can be reduced by improper installation and by simultaneous operation conditions of maximum working pressure at maximum temperature and minimum bend radius.



HOSE SELECTION TABLE FOR OUR TYPES BY SIZE AND MAXIMUM WORKING PRESSURE

PRESSURE EXPRESSED IN BAR

Hose size			EN 853 1SN	EN 857 1SC	SAE 100 R17	EN 853 2SN	EN-SAE 857 2SC /R16		EN 856 4SP	EN 856 4SH	SAE 100 R12	EXCEED SAE 100 R12	SAE 100 R13	SAE 100 R15
DN	inch	dash	FlexIT 1T	FlexIT 1SC	FlexIT SC317	FlexIT 2T	FlexIT SC216	Silvester	Multimax P4	Multimax H4	Multimax 12	Multimax 3000	Multimax 13	Multimax 15
6	1/4	4	225	225	225	400	400		450					
8	5/16	5	215	215	215	350	350							
10	3/8	6	180	180	210	330	330		445		280			
12	1/2	8	160	160	275	280	280	380	415		280			
16	5/8	10	130	130	250	250	250	350	350					
19	3/4	12	105	105	215	215	215	375	350	420	280			
25	1	16	88	88	210	165	165	310	280	380	280			420
31	1.1/4	20	63			125				325		207	345	420
38	1.1/2	24	50			90				290		207	345	420
51	2	32	40			80				250		207	345	

PRESSURE EXPRESSED IN PSI

Hose size			EN 853 1SN	EN 857 1SC	SAE 100 R17	EN 853 2SN	EN-SAE 857 2SC /R16		EN 856 4SP	EN 856 4SH	SAE 100 R12	EXCEED SAE 100 R12	SAE 100 R13	SAE 100 R15
DN	inch	dash	FlexIT 1T	FlexIT 1SC	FlexIT SC317	FlexIT 2T	FlexIT SC216	Silvester	Multimax P4	Multimax H4	Multimax 12	Multimax 3000	Multimax 13	Multimax 15
6	1/4	4	3265	3265	3265	5800	5800		6522					
8	5/16	5	3120	3120	3120	5075	5075							
10	3/8	6	2610	2610	3000	4785	4785		6450		4000			
12	1/2	8	2320	2320	3990	4000	4000	5500	6015		4000			
16	5/8	10	1885	1885	3625	3625	3625	5000	5075					
19	3/4	12	1525	1525	3120	3120	3120	5440	5075	6090	4000			
25	1	16	1275	1275	3000	2395	2395	4500	4060	5510	4000			6000
31	1.1/4	20	915			1810				4710		3000	5000	6000
38	1.1/2	24	725			1305				4205		3000	5000	6000
51	2	32	580			1160				3625		3000	5000	

You can select hoses which meet or exceed a certain Isobaric line by following the colour coding:

3000 psi / 210 bar	
4000 psi / 280 bar	
5000 psi / 345 bar	
6000 psi / 420 bar	

NOTE: all our multispiral hoses has been successfully impulse tested over 1 million cycles (assembled with Intertraco fittings)

IT Multimax/P4 4 wire spirals



Specifications:
DIN 20023 4SP, EN 856/4SP, SAE 100R9R

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 4 high tensile wire spirals
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 100° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6,4	14.7/.578	17.9/.703	450/6522	1800/26085	150/6.0	620
3/8	6	10	9,5	17.5/.689	21.4/.843	445/6450	1780/25810	180/7.0	820
1/2	8	12	12,7	20.2/.795	24.6/.969	415/6015	1660/24070	230/9.0	950
5/8	10	16	15,9	23.8/.937	28.2/1.110	350/5075	1400/20300	250/10.0	1200
3/4	12	19	19,0	28.2/1.110	32.2/1.265	350/5075	1400/20300	300/12.0	1600
1	16	25	25,4	35.3/1.390	39.7/1.561	280/4060	1120/16240	340/13.0	2300

IT Multimax/H4 4 wire spirals



Specifications:
DIN 20023 4SH, EN 856/4SH

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 4 high tensile wire spirals
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 100° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
3/4	12	19	19,0	28.4/1.118	32.2/1.268	420/6090	1680/24360	280/11.0	1600
1	16	25	25,4	35.2/1.386	38.7/1.386	380/5510	1520/22040	340/14.0	2250
1.1/4	20	31	31,8	41.9/1.650	45.5/1.791	325/4710	1300/18840	460/18.0	2600
1.1/2	24	38	38,1	48.8/1.922	53.5/2.106	290/4205	1160/16820	560/22.0	3200
2	32	51	50,8	63.2/2.488	68.1/2.681	250/3625	1000/14500	700/28.0	4800

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS



IT Multimax/12

4 wire spirals



Specifications: EN 856/R12, SAE 100R12

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 4 high tensile wire spirals
cover: weather, abrasion, ozone res. synth. rubber
MSHA flame retardant approved

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Temperature range, continuous service: -40° C + 121° C
Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
3/8	6	10	9,5	17.2/.677	20.2/.795	280/4000	1104/16000	127/5.0	750
1/2	8	12	12,7	20.7/.815	23.8/.937	280/4000	1104/16000	178/7.0	800
3/4	12	19	19,0	27.7/1.090	30.7/1.210	280/4000	1104/16000	241/9.5	1250
1	16	25	25,4	34.9/1.375	38.0/1.495	280/4000	1104/16000	305/12.0	1950
1.1/4	20	31	31,8	43.9/1.730	47.0/1.850	210/3000	828/12000	419/16.5	2800

IT Multimax/3000

4 wire spirals Exceeds R12 3000 psi ultra flexible!



Specifications: exceeds EN 856/R12, SAE 100R12

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 4 high tensile wire spirals
cover: weather, abrasion, ozone res. synth. rubber
MSHA flame retardant approved

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Temperature range, continuous service: -40° C + 121° C
Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1.1/4	20	31	31,8	45.2/1.780	46.5/1.830	210/3000	840/12000	260/10.2	2360
1.1/2	24	38	38,1	49.5/1.949	52.7/2.075	210/3000	840/12000	310/12.2	3060
2	32	51	50,8	62.5/2.461	66.0/2.598	210/3000	840/12000	430/16.9	4150

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS



IT Multimax/13

6 wire spirals



Specifications: EN 856/R13, SAE 100R13

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 6 high tensile wire spirals
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 121° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1.1/4	20	31	31,8	46.8/1.842	49.8/1.962	345/5000	1380/20000	419/16.5	4000
1.1/2	24	38	38,1	54.3/2.138	57.3/2.256	345/5000	1380/20000	508/20.0	4800
2	32	51	50,8	68.1/2.680	71.1/2.800	345/5000	1380/20000	635/25.0	7200

IT Multimax/15

4-6 wire spirals 6000 psi



Specifications: SAE 100R15

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 6 high tensile wire spirals
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 121° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1	16	25	25,4	36.0/1.417	39.3/1.547	420/6085	1680/24000	330/13.0	2240
1.1/4	20	31	31,8	46.5/1.831	49.5/1.949	420/6085	1680/24000	450/18.0	3870
1.1/2	24	38	38,1	54.0/2.126	57.1/2.248	420/6085	1680/24000	530/22.0	4860

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS



Flex IT/IT

1 wire braid



Specifications:
DIN 20022 ISN, EN 853/1SN, exceeds SAE 100R1AT

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 1 high tensile wire braid
cover: black weather, abrasion, ozone res. synth. rubber
MSHA flame retardant approved

Temperature range, continuous service: -40° C + 100° C
Max operating temperature: + 125° C

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6,4	11.1/.437	13.4/.528	225/3265	900/13050	100/4.0	210
5/16	5	8	7,9	12.7/.500	15.0/.591	215/3120	850/12325	115/4.5	240
3/8	6	10	9,5	15.1/.594	17.4/.685	180/2610	720/10440	130/5.0	330
1/2	8	12	12,7	18.3/.719	20.6/.811	160/2320	640/9280	180/7.0	410
5/8	10	16	15,9	21.4/844	23.7/.933	130/1885	520/7540	200/8.0	450
3/4	12	19	19,0	25.4/1.000	27.7/1.091	105/1525	420/6090	240/9.5	580
1	16	25	25,4	33.3/1.313	35.6/1.402	88/1275	350/5075	300/12.0	880
1.1/4	20	31	31,8	40.5/1.594	43.5/1.713	63/915	250/3625	420/16.5	1230
1.1/2	24	38	38,1	46.8/1.844	50.6/1.992	50/725	200/2900	500/20.0	1510
2	32	51	50,8	60.2/2.370	64.0/2.520	40/580	160/2320	630/25.0	1970

Flex IT/1SC

1 wire braid "compact" high flexibility



Specifications:
EN 857/1SC

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 1 high tensile wire braid
cover: black weather, abrasion, ozone res. synth. rubber

Temperature range, continuous service: -40° C + 100° C
Max operating temperature: + 125° C

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Lengths/ random

BORE DIAMETER				mean over wire diam	max over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6.4	10.2/.402	13.5/.531	225/3260	900/13050	75/3.0	180
5/16	5	8	7.9	11.5/.453	14.5/.571	215/3120	860/12480	85/3.5	210
3/8	6	10	9.5	13.6/.535	16.9/.665	180/2610	720/10440	90/3.5	280
1/2	8	12	12.7	17.0/.669	20.4/.803	160/2320	640/9280	130/5.3	330
5/8	10	16	15.9	20.4/.803	23.0/.906	130/1880	520/7540	150/5.9	410
3/4	12	19	19.0	23.8/.937	26.7/1.051	105/1520	420/6090	180/7.0	520
1	16	25	25.4	31.3/1.232	34.9/1.374	88/1270	352/5105	230/9.0	780

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS

FlexIT/2T

2 wire braids



Specifications:
DIN 20022 2SN, EN 853/2SN, exceeds SAE 100R2AT

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 2 high tensile wire braids
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 100° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6,4	12.7/.500	15.0/.591	400/5800	1600/23200	100/4.0	330
5/16	5	8	7,9	14.3/.562	16.6/.654	350/5075	1400/20300	115/4.5	390
3/8	6	10	9,5	16.7/.657	19.0/.748	330/4785	1320/19140	130/5.0	500
1/2	8	12	12,7	19.8/.781	22.2/.874	280/4000	1100/15950	180/7.0	590
5/8	10	16	15,9	23.0/.906	25.4/1.000	250/3625	1000/14500	200/8.0	710
3/4	12	19	19,0	27.0/1.063	29.3/1.154	215/3120	850/12325	240/9.5	860
1	16	25	25,4	34.9/1.375	38.1/1.500	165/2395	650/9425	300/12.0	1280
1.1/4	20	31	31,8	44.5/1.752	48.3/1.902	125/1810	500/7250	420/16.5	2020
1.1/2	24	38	38,1	50.8/2.000	54.6/2.150	90/1305	360/5220	500/20.0	2230
2	32	51	50,8	63.5/2.500	67.3/2.650	80/1160	320/4640	630/25.0	2850

FlexIT/SC 216

2 wire braids hose "compact"



Specifications:
EN 857/2SC, exceeds SAE 100R16

Construction:
 tube: black seamless oil resistant synthetic rubber
 reinforcement: 2 high tensile wire braids
 cover: black weather, abrasion, ozone res. synth. rubber
 MSHA flame retardant approved

Fluid resistance:
 hydraulic oils, both mineral and "biological"
 polyglycol base oils
 oil/water emulsions
 water

Temperature range, continuous service: -40° C + 100° C
 Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	max over cover diam	max. work pressure	min. burst pressure	min. bend radius (*)	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6,4	11.2/.438	14.2/.559	400/5800	1600/23200	51/2.0	280
5/16	5	8	7,9	12.7/.500	16.0/.630	350/5075	1400/20300	57/2.2	330
3/8	6	10	9,5	15.1/.594	18.3/.720	330/4785	1320/19140	63/2.5	420
1/2	8	12	12,7	18.3/.719	21.5/.846	280/4000	1100/15950	88/3.5	520
5/8	10	16	15,9	21.4/.844	24.7/.972	250/3625	1000/14500	100/4.0	610
3/4	12	19	19,0	25.4/1.000	28.6/1.126	215/3120	860/12470	120/4.7	790
1	16	25	25,4	33.4/1.315	36.6/1.441	165/2390	660/9570	150/6.0	1100

(*) [bend radius according to SAE 100R16]

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS



Flex IT/SC 317 1&2 wire braids Exceeds Isobaric 3000psi R17 Compact, high flexibility



Specifications:
exceeds SAE 100R17

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 1 or 2 high tensile wire braids
cover: black weather, abrasion, ozone res. synth. rubber
MSHA flame retardant approved

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Temperature range, continuous service: -40° C + 100° C
Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	max over cover diam	max. work. pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/4	4	6	6,4	10.2/.402	13.5/.531	225/3265	900/13050	50/2.0	180
5/16	5	8	7,9	11.5/.453	14.5/.571	215/3120	860/12480	55/2.2	210
3/8	6	10	9,5	13.9/.547	16.5/.650	210/3000	840/12000	65/2.5	270
1/2	8	12	12,7	18.3/.719	21.5/.846	275/3990	1100/15950	90/3.5	520
5/8	10	16	15,9	21.4/844	24.7/.972	250/3625	1000/14500	105/4.0	610
3/4	12	19	19,0	25.4/1.000	28.6/1.126	215/3120	860/12470	125/4.7	790
1	16	25	25,4	33.8/1.314	36.2/1.425	210/3000	840/12000	150/5.9	1400

SILVESTER

2&3 wire braids Special for forestry



Specifications:
Proprietary

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: 2 or 3 proprietary high tensile wire braids
cover: black weather, abrasion, ozone res. synth. rubber

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Temperature range, continuous service: -40° C + 100° C
Max operating temperature: + 125° C

Lengths/ random

BORE DIAMETER				mean over wire diam	mean over cover diam	max. work. pressure	min. burst pressure	max. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	mm/inch	bar/psi	bar/psi	mm/inch	g/m
1/2	8	12	12,7	19.2/.756	22.0/.866	380/5500	1520/22000	130/5.1	630
5/8	10	16	15,9	21.6/.844	24.7/.972	350/5000	1360/20000	200/8.0	780
3/4	12	19	19,0	27.8/1.094	31.8/1.1250	375/5440	1500/21760	260/10.2	1320
1	16	25	25,4	34.9/1.374	39.0/1.535	310/4500	1100/18000	310/12.0	1820

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS

FlexIT/R4

Delivery & Suction hose



Specifications:
SAE 100R4

Construction:
tube: black seamless oil resistant synthetic rubber
reinforcement: textile reinforced with wire helix
cover: black weather, abrasion, ozone res. synth. rubber

Temperature range, continuous service: -40° C + 100° C

Fluid resistance:
hydraulic oils, both mineral and "biological"
polyglycol base oils
oil/water emulsions
water

Length: 61 m (200') max

BORE DIAMETER				max over cover diam	Vacuum	max. work pressure	min. burst pressure	min. bend radius	approx. weight
inches	dash	DN	mm	mm/inch	inch/Hg	bar/psi	bar/psi	mm/inch	g/m
3/4	12	19	19,0	32.0/1.260	28	21/300	83/1200	127	800
1	16	25	25,4	38.0/1.496	28	17/250	70/1000	152	950
1.1/4	20	31	31,8	45.0/1.772	28	14/200	55/800	203	1150
1.1/2	24	38	38,1	52.0/2.047	28	10/150	41/600	254	1500
2	32	51	50,8	64.0/2.519	28	7/100	28/400	305	1800
2.1/2	40	63	63,5	77.0/3.030	28	4/62	17/250	356	2500
3	48	76	76,2	90.0/3.543	28	4/56	15/225	457	2900
4	64	102	101,6	120/4.724	28	2/35	10/140	600	4500

WARNING:

Improper fitting design or manufacturing may result in fittings blow off, and may cause serious personal injuries and/or system damages:

OUR HOSE HAS BEEN DEVELOPED AND TESTED FOR FULL COMPATIBILITY WITH OUR FITTINGS