



MEGA FLEX

The leader of the pack is back



Your Value Partner
Supplied by Multispray



MEGAFLEX
Technical
Manual

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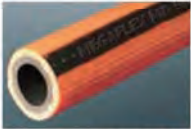
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INTRODUCTION TO MARLEY MEGAFLEX

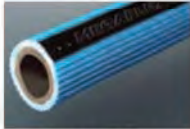
Marley is proud to introduce the **MEGAFLEX** range of flexible PVC hoses – now available in our growing product basket. From the brand that is synonymous with durability, quality and unmatched reliability, **MEGAFLEX** offers a vast selection of flexible hoses specially developed for a wide range of applications, including Mining, Irrigation, Industrial and Domestic.

The long-standing reputation of the **MEGAFLEX** brand combined with Marley's solid infrastructure, value-added back up support and over 50 years' experience in manufacturing hose, is evident in the quality of the hoses which are distinctly marked with the tell-tale **MEGAFLEX** stripe. Our Stripe, Your Guarantee.

MINING HOSES



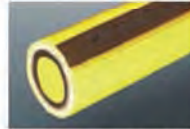
MD500



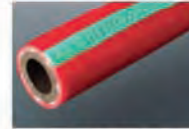
M4508



M5008



MAS58



M7011

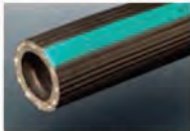


M8003/M8013

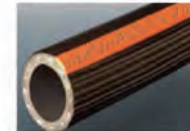
DRAGLINE IRRIGATION HOSES



I772

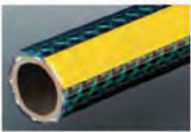


I775

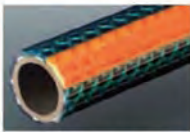


I779

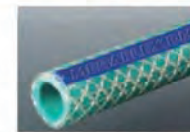
GARDEN HOSES



DLD20



DLD25



DHD60

INDUSTRIAL HOSES



I6001



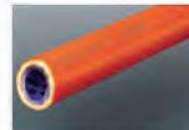
I6002



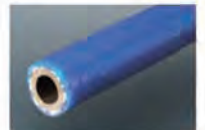
I7009



I7019



I7029



I7004

FIRE HOSES



F694



F776

SUCTION & DELIVERY HOSES



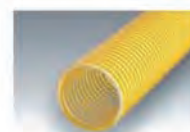
IS755Y



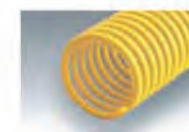
IS755B



IS754



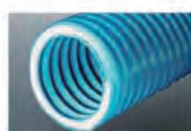
IS655



IS756



IS866



IS867



IS868



IS863



IS865

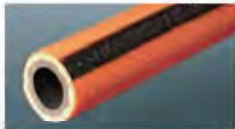
MINING HOSES

MEGAFLEX mining hoses were specially developed for South African mining conditions and are used for a range of applications including: Compressors, Jack Hammers, Pneumatic Tools, High-pressure Air and water conveyance and Explosives Loading.

MEGAFLEX mining hoses are manufactured with: PVC inner liner, Polyester Reinforcing, PVC outer cover. **MEGAFLEX** mining hoses are: long lasting, lightweight, flexible, cut and abrasion resistant, oil resistant and non-absorbent, tested for high burst pressures and able to withstand temperatures ranging from 0°C to 60°C.



WARNING: As temperatures increase, pressure ratings decrease.



MD500 ORANGE MINING HOSE

SANS 1086
Standard Duty

Nominal Dimensions						
Internal Diameter (mm)	10	12	20	25	32	50
Pressure (kPa)						
Working	1 700	1 700	1 500	1 400	1 000	875
Burst	6 800	6 800	6 000	5 600	4 000	3 500
Mass per metre (g) (nominal)	185	256	415	586	852	1 936



M4508 BLUE MINING HOSE

SANS 1086
Medium Duty

Nominal Dimensions						
Internal Diameter (mm)	10	12	20	25	32	50
Pressure (kPa)						
Working	1 700	1 700	1 500	1 400	1 000	875
Burst	6 800	6 800	6 000	5 600	4 000	3 500
Mass per metre (g) (nominal)	185	259	415	586	852	1 936



M5008 GREEN MINING HOSE

SANS 1086
Heavy Duty

Nominal Dimensions							
Internal Diameter (mm)	10	12	20	25	32	40	50
Pressure (kPa)							
Working	1 700	1 700	1 500	1 400	1 000	880	880
Burst	6 800	6 800	6 000	5 600	4 000	3 500	3 500
Mass per metre (g) (nominal)	199	277	578	646	947	1 313	2 053



MAS58 YELLOW ANTI-STATIC HOSE

Anti-static inner liner. Compliance with BS 2050/1978
Resistance requirements of 3×10^3 to 1×10^6 n/m

Nominal Dimensions			
Internal Diameter (mm)	12	25	50
Pressure (kPa)			
Working	1 700	1 400	880
Burst	6 800	5 600	3 500
Mass per metre (g) (nominal)	264	603	1 918



M7011 RED ROCK DRILL HOSE

High burst and working pressures. Extra polyester reinforcing
For use with air compressors in construction works, quarries and heavy duty mining applications

Nominal Dimensions							
Internal Diameter (mm)	10	12	20	25	32	40	50
Pressure (kPa)							
Working	3 000	3 000	2 250	2 000	1 750	1 600	1 600
Burst	16 800	12 000	9 000	8 000	7 000	6 400	6 400
Mass per metre (g) (nominal)	300	367	699	943	1 421	1 892	2 575



ANTI-STATIC LOADING HOSE

Anti-static and semi-conductive.
Compliance with BS 2050/1978 resistance requirements of 3×10^3 to 1×10^6 n/m

Description	Nominal Internal Diameter (mm)	Nominal Outside Diameter (mm)
M8003: Smooth	16	23
M8003: Smooth	20	26
M8013: Ribbed Heavy Duty	16	25
M8013: Ribbed Heavy Duty	20	30
M7012: Red Reinforced Flexible	20	28
M7022: Black Reinforced	16	22
M7022: Black Reinforced	20	26
M7022: Black Reinforced	25	31

DRAGLINE IRRIGATION HOSES

MEGAFLEX Dragline irrigation hoses are:

- Longitudinally reinforced to prevent stretching when dragged
- Long lasting
- Cut and abrasion resistant
- UV stabilised
- Striped for easy identification

MEGAFLEX Dragline irrigation hoses have a PVC inner liner and outer cover, reinforced with polyester yarn. **INSIST ON THE HOSE WITH THE STRIPE!!**

The registered stripe, exclusive to **MEGAFLEX**, has been designed in a manner which does not allow the printing to weaken the hose construction. Hoses can be specially embossed to suit customers' requirements, based on minimum order quantities. All dimensions are nominal.

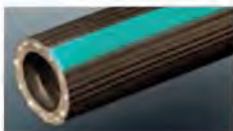
ASSEMBLY:

The fittings must not have sharp edges or barbs. The hose should be fitted using at least one hose clamp. See section on [Hose Assembly](#).



MEGAFLEX 1772
Standard Duty

Nominal Internal Diameter (mm)	12	20
Pressure (kPa)		
Working	875	800
Burst	3 500	3 200
Mass per metre (g) (nominal)	155	302



MEGAFLEX 1775
Medium Duty

Nominal Internal Diameter (mm)	14	20
Pressure (kPa)		
Working	1 000	1 000
Burst	4 000	4 000
Mass per metre (g) (nominal)	280	358



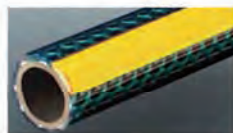
MEGAFLEX 1779
SANS 271
Heavy Duty

Nominal Internal Diameter (mm)	20
Pressure (kPa)	
Working	1 000
Burst	4 000
Mass per metre (g) (nominal)	396

MEGAFLEX garden hoses are:

- Highly flexible
- Easy to coil all year round
- UV stabilised
- Suitable for: domestic gardens, certain agricultural and industrial applications

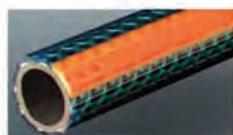
MEGAFLEX garden hoses have a PVC inner liner and outer cover, reinforced with polyester yarn.



MEGAFLEX DLD20

*Premium Economy | Yellow stripe
Working pressure of 700 kPa
Burst pressure of 2 800 kPa*

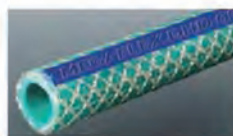
Internal Diameter (mm)	12	20
Mass per metre (g)	114	224



MEGAFLEX DLD25

*Standard Duty | Orange stripe
Working pressure of 700 kPa
Burst pressure of 2 800 kPa*

Internal Diameter (mm)	12	20
Mass per metre (g)	141	267



MEGAFLEX DHD60

*Heavy Duty | Blue stripe
Working pressure of 1 000 kPa
Burst pressure of 4 000 kPa*

Internal Diameter (mm)	12	20	25
Mass per metre (g)	194	365	530



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MEGAFLEX Industrial Hoses:

- Are flexible
- Have high burst and working pressures
- Have good resistance to fuels, gases and chemicals



MEGAFLEX 16001 & 16002

Clear Wall Hose

*Low-pressure applications such as laboratory tubing, aquariums
Chemical and abrasion resistant*. Good clarity*

Internal Diameter (mm)	3	4	5	6,3	8	10	12,5	16	20	25
Wall Thickness										
16001	0,8	0,8	0,8	1,10	1,1	1,2	1,6	1,6	-	-
16002	1,4	-	1,4	2,2	2,2	2,7	2,7	2,8	2,8	3,3



MEGAFLEX 17009

Clear Reinforced Hose

*High-pressure applications such as air, diluted acids and oils
Good chemical and abrasion resistance**

Internal Diameter (mm)	6,3	8	10	12,5	16	20	25	32	40	50
Outside Diameter (mm)	9,3	11	13,4	16,4	19,6	24,4	30,8	39,4	49,1	59,6
Pressure (kPa)										
Working	1 475	1 475	1 125	1 050	1 050	1 050	1 050	950	800	750
Burst	5 900	5 200	4 500	4 200	4 000	4 000	4 000	3 800	3 600	3 000
Mass per metre (g)	95	113	134	175	232	335	525	812	1 311	1 826



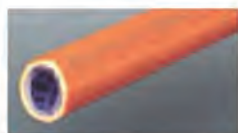
MEGAFLEX 17019

Fuel Hose

Good resistance to fuel, diesel and gas
Cut and abrasion resistant*

Internal Diameter (mm)	6	8	10	12
Outside Diameter (mm)	9,4	11,4	13,6	15,7
Pressure (kPa)				
Working	1 475	1 300	1 125	1 050
Burst	5 900	5 200	4 500	4 200
Mass per metre (g)	93	116	140	185

**Refer to PVC chemical resistance chart.*



MEGAFLEX I7029

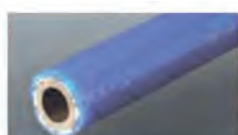
SANS 1156

Orange LP Gas Hose

Good resistance to fuel, diesel and gas* | Cut and abrasion resistant

Internal Diameter (mm)	6	8	10
Outside Diameter (mm)	9	11	13
Pressure (kPa)			
Working	1 475	1 300	1 125
Burst	5 900	5 200	4 500
Mass per metre (g)	110	135	167

*Refer to PVC chemical resistance chart.



MEGAFLEX I7004

Air and Water Hose

Good oil and chemical resistance | Cut and abrasion resistant

Applications: Air lines, Air tools, Coolant Lines and Spraypaint Lines

Nominal Internal Diameter (mm)	6	8	10	12
Pressure (kPa)				
Working	2 000	1 800	1 700	1 700
Burst	8 000	7 200	6 800	6 800
Mass per metre (g)	109	166	207	262



MEGAFLEX F694

Fire Reel Hose

10-year design life | Specially designed for the fire fighting industry

Features a heavy duty nylon reinforcing to withstand the high pressure encountered in municipal mains

Nominal Internal Diameter (mm)	20
Pressure (kPa)	
Working	1 050
Burst	4 200
Mass per metre (g)	331



MEGAFLEX F776

SANS 1086 | 10-year design life | Specially designed for the fire fighting industry

Features a heavy duty nylon reinforcing to withstand the high pressure encountered in municipal mains

Nominal Internal Diameter (mm)	12	20
Pressure (kPa)		
Working	1 700	1 500
Burst	6 800	6 000
Mass per metre (g)	265	414

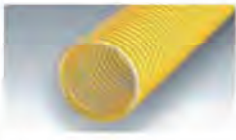
SUCTION & DELIVERY HOSES

MEGAFLEX suction and delivery hoses are specifically designed for the suction of liquids and mixtures for various applications in the Agricultural, Building, Mining and Fishing industries.

MEGAFLEX suction and delivery hoses feature:

- Ability to withstand up to 99% vacuum
- Full flow, smooth bore
- Ultra-violet stabilisation
- Temperature range of 0°C to 60°C

MEGAFLEX suction and delivery hoses have a rigid PVC core, co-extruded with a flexible PVC outer cover, which is spirally wound to form a reinforced hose.



MEGAFLEX IS655

*Standard Duty
Yellow clear
Good flexibility | Lightweight*

Nominal Dimensions (mm)							
Internal Diameter	25	32	40	50	64	75	100
Outside Diameter	30	38	47	57	73	85	114
Mass per metre (g)	312	540	635	747	1 281	1 573	2 731
Bending Radius (mm)	40	60	80	105	135	180	295
% Vacuum	99	99	99	99	99	99	99



MEGAFLEX IS754

*Ducting Hose - Grey
Light Duty | Extremely flexible hose. Suitable for ducting of chemical fumes, ventilation, air conditioning or light duty dust extraction applications*

Nominal Dimensions (mm)									
Internal Diameter	25	32	40	50	64	75	100	125	150
Outside Diameter	32	38	48	58	74	84	112	137	164
Mass per metre (g)	225	394	409	589	770	875	1 000	1 670	1 900



MEGAFLEX IS755

*Medium Duty
Black: Additional UV stabilisation
Flexible and abrasion resistant*

Nominal Dimensions (mm)							
Inside Diameter	25	32	40	50	64	75	100
Outside Diameter	33	40	48	59	75	86	112
Working Pressure (kPa)	550	550	480	480	410	380	310
Mass per metre (g)	393	657	818	1 004	1 418	1 882	3 000
Bending Radius (mm)	45	70	90	110	150	210	350
% Vacuum	99	99	99	99	99	99	99



MEGAFLEX IS756

*Medium Duty
Flexible and abrasion resistant
Yellow clear*

Nominal Dimensions (mm)								
Internal Diameter	25	32	40	50	64	75	100	150
Outside Diameter	31	38	46	57	72	83	111	167
Mass per metre (g)	452	553	779	999	1 280	1 716	2 887	6 100
Bending Radius (mm)	45	65	90	110	150	200	305	700
% Vacuum	99	99	99	99	99	99	99	99



MEGAFLEX IS866

*Heavy Duty
Abrasion and crush resistant*

Nominal Dimensions (mm)											
Inside Diameter	25	32	40	50	64	75	100	125	150	200	250
Outside Diameter	32	41	49	60	76	87	116	141	170	229	281
Working Pressure (kPa)	970	720	720	620	620	480	380	380	240	240	240
Mass per metre (g/m)	436	723	941	1 177	1 761	2 053	3 331	5 219	6 866	12 556	15 687
Bending Radius (mm)	80	120	170	250	350	400	500	1 000	1 500	2 000	2 500
% Vacuum	99	99	99	99	99	99	99	95	95	90	85



MEGAFLEX IS867

*Fuel Resistant
Good resistance to fuels and gases - refer to PVC chemical resistance chart*

Nominal Dimensions (mm)							
Internal Diameter	25	32	40	50	64	75	100
Outside Diameter	32	41	49	60	76	87	113
Working Pressure (kPa)	970	720	720	620	620	480	380
Mass per metre (g/m)	418	702	864	1 178	1 779	2 077	3 246
Bending Radius (mm)	80	120	170	250	350	400	500
% Vacuum	99	99	99	99	99	99	99

SUCTION & DELIVERY HOSES (CONTINUED)



MEGAFLEX IS868

Non-toxic

Specially formulated for the conveyance of food products

Nominal Dimensions (mm)										
Inside Diameter	25	32	40	50	64	75	100	125	150	200
Outside Diameter	32	41	49	60	76	87	115	140	170	221
Working Pressure (kPa)	970	720	720	620	620	480	380	380	240	240
Mass per metre (g/m)	410	695	849	1 136	1 748	2 046	3 192	5 176	7 308	8 626
Bending Radius (mm)	80	120	170	250	350	400	500	1 000	1 500	2 000
% Vacuum	99	99	99	99	99	99	99	95	95	90



MEGAFLEX IS863

Medium Duty White Super Flexi

Highly flexible

Lightweight

Nominal Dimensions (mm)					
Internal Diameter	100	125	150	200	250
Outside Diameter	111	136	159	210	266
Mass per metre (g)	2 875	4 580	4 726	7 960	11 275
Bending Radius (mm)	800	800	900	1 000	1 500
% Vacuum	98	96	95	90	90



MEGAFLEX IS865

Extra-heavy Duty

Abrasion resistant

Nominal Dimensions (mm)					
Internal Diameter	100	125	150	200	250
Outside Diameter	116	141	171	230	282
Mass per metre (g)	3 367	5 131	6 824	12 553	15 583
Bending Radius (mm)	500	1 500	1 500	2 000	2 500
% Vacuum	99	97	95	90	85



Imperial = Inches | Metric = Millimetres (mm)

Imperial	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	7/8"	15/16"	1"
Metric	1,5	3,1	4,7	6,3	7,9	9,5	11,1	12,7	14,2	15,8	17,4	19,0	22,2	23,8	25,4

Imperial	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"
Metric	32,6	38,1	50,8	53,5	76,2	101,6	127,0	152,4	203,2	254,0	304,8	355,6

PRESSURE CONVERSIONS

KPA to PSI

(1 kPa = ,145 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
8 000	8,0	80	1 160
9 000	9,0	90	1 305
10 000	10	100	1 450
20 000	20	200	2 901
30 000	30	300	4 351
40 000	40	400	5 802
50 000	50	500	7 252
60 000	60	600	8 702
70 000	70	700	10 153
80 000	80	800	11 603
90 000	90	900	13 053
100 000	100	1 000	14 504
200 000	200	2 000	29 008
300 000	300	3 000	43 511

PSI to KPA

(1 psi = 6,89 kPa)

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	44,2	551,6
9 000	62 053	62,1	620,5
10 000	68 948	68,9	689
20 000	137 895	147,9	1 379
30 000	206 843	206,8	2 068
40 000	275 790	275,8	2 758

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