



Pexmart is proud to introduce the PEX-FLEX range of flexible PVC hoses – now available in our growing product basket.

From the brand that is synonymous with durability, quality and unmatched reliability, PEX-FLEX offers a vast selection of flexible hoses specially developed for a wide range of applications, including Mining, Irrigation, Industrial and Domestic.

**1 Piet Pretorius St, Rosslyn,
Pretoria, South Africa**

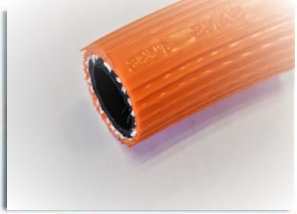
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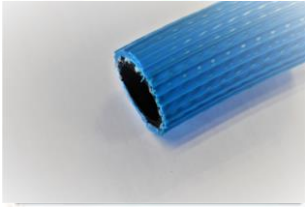
Fax2email: 0866 720 721

**PEX-FLEX
Technical
Manual**

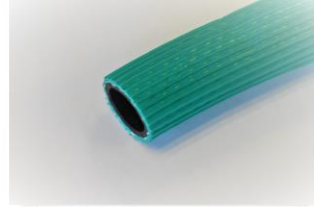
MINING HOSES



MD500



M4508



M5008



MAS58

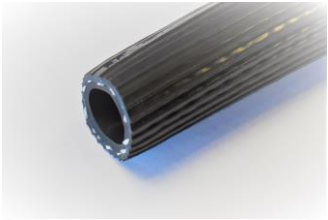


M7011

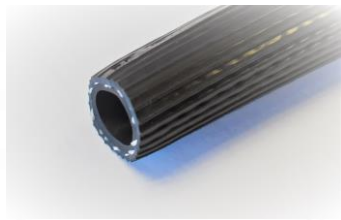


M8003/M8013

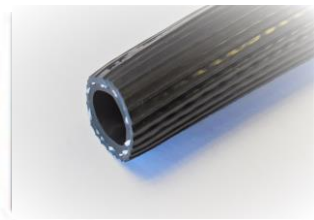
DRAGLINE IRRIGATION HOSES



1772

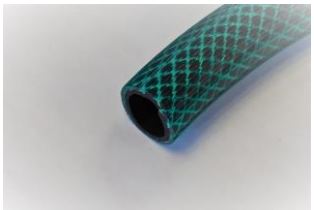


1775

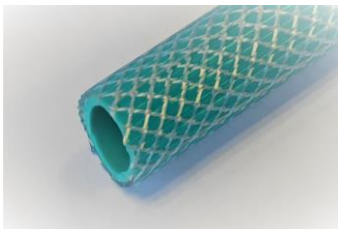


1779

GARDEN HOSES



DLD20



DHD60

INDUSTRIAL HOSES



I6001



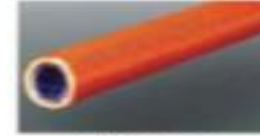
I6002



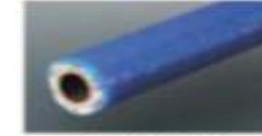
I7009



I7019



I7029



I7004

FIRE HOSES



F694



F776

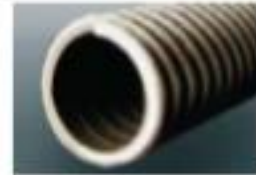
SUCTION & DELIVERY HOSES



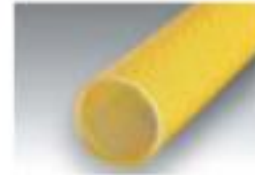
IS755Y



IS755B



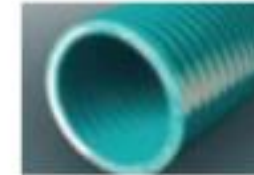
IS754



IS655



IS756



IS866



IS867



IS868



IS863

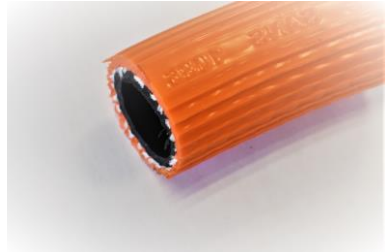


IS865

PEX-FLEX 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.

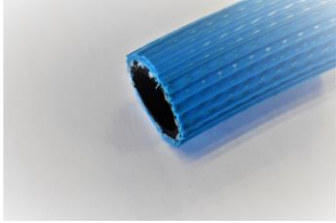
PEX-FLEX mining hoses are manufactured with: PVC inner liner, Polyester Reinforcing, PVC outer cover. PEX-FLEX mining hoses are: long lasting, lightweight, flexible, cut and abrasion resistant, oil resistant and non-absorbent, tested for high burst pressures and able to withstand temperatures ranging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

WARNING: As temperatures increase, pressure ratings decrease.



MD500 ORANGE MINING HOSE
SANS 1086
Standard Duty

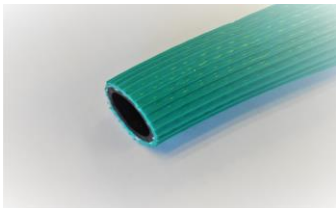
Nominal Dimensions						
Internal Diameter (mm)	10	12	20	25	32	50
Pressure (kPa)						
Working	1 700	1 700	1 500	1 400	1 000	875
Burst	6 800	6 800	6 000	5 600	4 000	3 500
Mass per metre (g) (nominal)	185	256	415	586	852	1 936



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

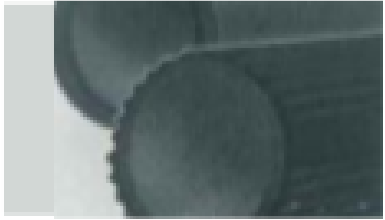


M7011 RED ROCK DRILL HOSE

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

PEX-FLEX Dragline irrigation hoses are:

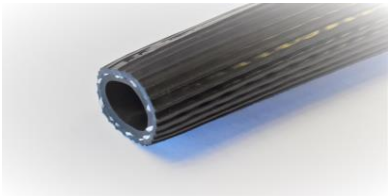
- Longitudinally reinforced to prevent stretching when dragged
- Long lasting
- Cut and abrasion resistant
- UV stabilised

PEX-FLEX Dragline irrigation hoses have a PVC inner liner and outer cover, reinforced with polyester yarn.

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.](#)

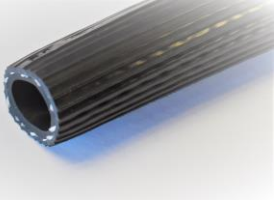


PEX-FLEX 1772

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

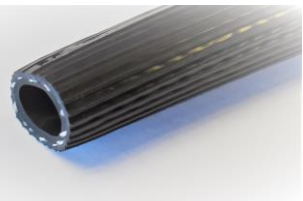
DRAGLINE IRRIGATION HOSES (CONTINUED)



PEX-FLEX I775

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



PEX-FLEX I779

SANS 645 TYPE II

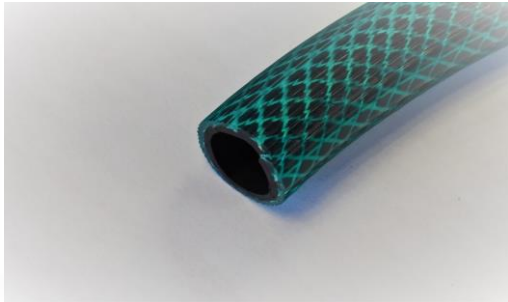
Heavy Duty

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

PEX-FLEX garden hoses are:

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

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



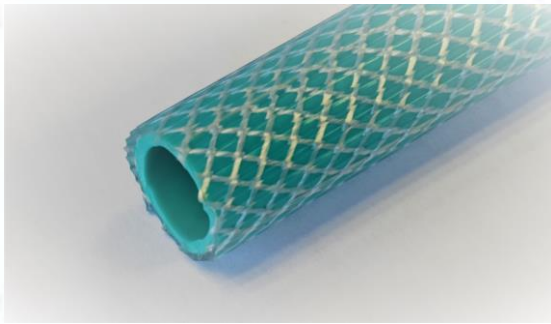
PEX-FLEX DLD20

Standard

Working Pressure of 700 kPa

Burst pressure of 2800 kPa

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



PEX-FLEX DHD60

Heavy Duty

Working Pressure of 1000 kPa

Burst pressure of 4000 kPa

Internal Diameter (mm)	12	20	25
Mass per metre (g)	194	365	509

PEX-FLEX Industrial Hoses:

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

PEX-FLEX I6001 & I6002



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



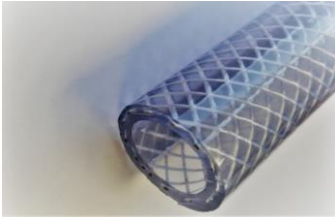
PEX-FLEX I7009

Clear Reinforced Hose

High-pressure applications such as air, diluted acids and oils

*Good chemical and abrasion resistant**

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



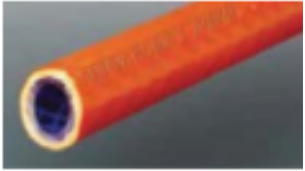
PEX-FLEX I7019

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



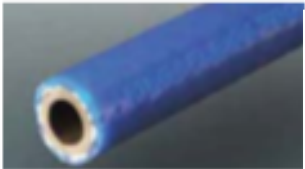
PEX-FLEX I7029

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



PEX-FLEX I7004

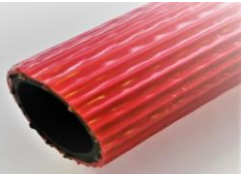
Air and Water Hose

Good oil and chemical resistance – Cut and abrasion resistant

Applications: Air lines, Air tools, Coolant Lines and Spray-paint Lines

*Refer to PVC chemical resistance chart.

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



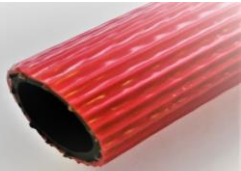
PEX-FLEX F694

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



PEX-FLEX 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

PEX-FLEX 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.

PEX-FLEX suction and delivery hose features:

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

PEX-FLEX 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.



PEX-FLEX IS655

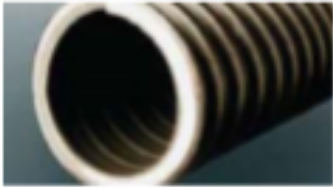
Standard Duty

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

SUCTION & DELIVERY HOSES (CONTINUED)

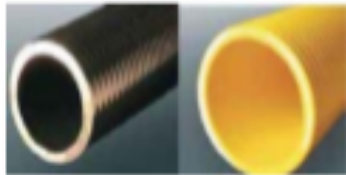


PEX-FLEX IS754

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



PEX-FLEX IS755

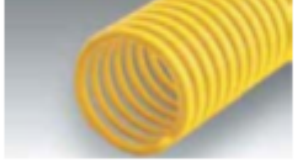
Medium Duty

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

SUCTION & DELIVERY HOSES (CONTINUED)



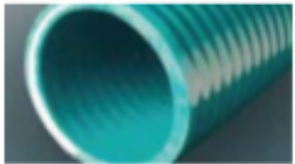
PEX-FLEX IS756

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



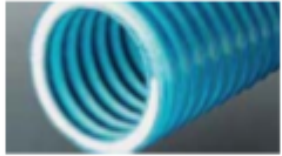
PEX-FLEX IS866

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

SUCTION & DELIVERY HOSES (CONTINUED)



PEX-FLEX 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



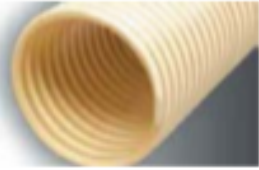
PEX-FLEX IS868

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

SUCTION & DELIVERY HOSES (CONTINUED)



PEX-FLEX 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



PEX-FLEX 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