



**FIRESAFE RAIL HOSE
KEEPING ROLLING STOCK MOVING...**



WWW.FLOTECINDUSTRIAL.CO.UK/RAIL

Railtec™ Branded Rail Hoses

Flotec's vision for rail is to reduce critical downtime and associated costs by providing fit-for-purpose and robust products that make rolling stock safer whilst increasing efficiency.

The Flotec hose range is EN 45545-2 fire safe compliant and has been designed to meet the strictest requirements of its intended application.

EN 45545-2 is an EU standard regulation for hose assembly resilience to high temperatures and hazardous fire risk.

The regulation addresses toxicity, smoke density and oxygen depletion.

The Flotec rail hose range can withstand temperatures of up to 150°C, and offers abrasion cover options, by utilising a market leading combination of compounds and materials.

By introducing the Railtec™ branded hose products to industry, rail clients can rest assured that they are installing rail hoses that will meet the most demanding of conditions in the safest, most cost effective and efficient manner available.

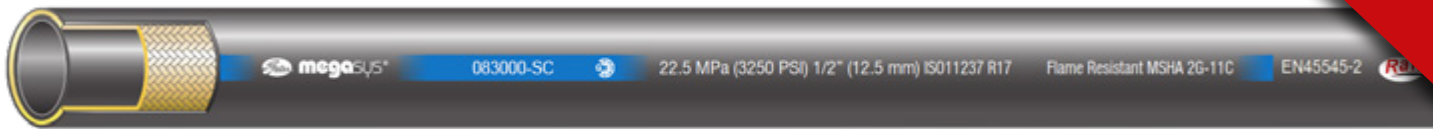
Railtec™ hoses are ideal for TOCs, FOCs, ROSCOs, OEMs as well as yellow plant hire and track maintenance companies.





EN 45545-2 FIRE SAFE RAIL HOSE

3000-SC ISOBARIC STANDARD COVER HOSE



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

-4 to -8: one braid of high tensile steel wire; -10 to -16: two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 11237 R17. SAE 100R17. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 1SC/2SC and 50% of EN 853 1SN/2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Exceeds working pressure requirements of R17.
- Meets or exceeds EN 857 1SC/2SC performance requirements.
- Lightweight.
- 3000-SC hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.48	12.2	3250	22.5	13000	90.0	40	17	043000-SC
-5	8	5/16	0.59	15.1	3250	22.5	13000	90.0	45	26	053000-SC
-6	10	3/8	0.63	16.0	3250	22.5	13000	90.0	50	28	063000-SC
-8	12	1/2	0.80	20.2	3250	22.5	13000	90.0	70	41	083000-SC
-10	16	5/8	0.99	25.2	3250	22.5	13000	90.0	75	73	103000-SC
-12	19	3/4	1.14	29.0	3250	22.5	13000	90.0	95	91	123000-SC
-16	25	10.48	1.48	37.7	3250	22.5	13000	90.0	115	155	163000-SC



EN 45545-2 FIRE SAFE RAIL HOSE

3000-HTC ISOBARIC STANDARD COVER HOSE

3000-HTC: the complete range of 3000-SC is also available with the special HTC cover which offers 300 times the abrasion resistance of the standard 3000-SC cover as per ISO 6945 with superior ozone and weathering resistance.



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

-4 to -8: one braid of high tensile steel wire; -10 to -16: two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 11237 R17. SAE 100R17. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 1SC/2SC and 50% of EN 853 1SN/2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Exceeds working pressure requirements of R17.
- Meets or exceeds EN 857 1SC/2SC performance requirements.
- Lightweight.
- 3000-SC hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.48	12.2	3250	22.5	13000	90.0	40	17	043000-HTC
-5	8	5/16	0.59	15.1	3250	22.5	13000	90.0	45	26	053000-HTC
-6	10	3/8	0.63	16.0	3250	22.5	13000	90.0	50	28	063000-HTC
-8	12	1/2	0.80	20.2	3250	22.5	13000	90.0	70	41	083000-HTC
-10	16	5/8	0.99	25.2	3250	22.5	13000	90.0	75	73	103000-HTC
-12	19	3/4	1.14	29.0	3250	22.5	13000	90.0	95	91	123000-HTC
-16	25	10.48	1.48	37.7	3250	22.5	13000	90.0	115	155	163000-HTC



EN 45545-2 FIRE SAFE RAIL HOSE

3000-MTC ISOBARIC STANDARD COVER HOSE

3000-MTC: the complete range of 3000-SC is also available with the special MTC cover which offers 25 times the abrasion resistance of the standard 3000-SC cover as per ISO 6945.



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

-4 to -8: one braid of high tensile steel wire; -10 to -16: two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 11237 R17. SAE 100R17. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 1SC/2SC and 50% of EN 853 1SN/2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Exceeds working pressure requirements of R17.
- Meets or exceeds EN 857 1SC/2SC performance requirements.
- Lightweight.
- 3000-SC hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

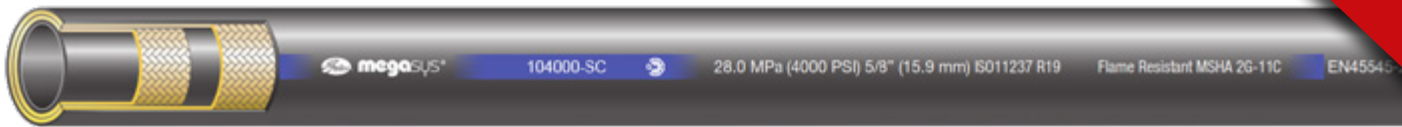
SPECIFICATION TABLE

↔		○		○		🔥		👂		📊	📏
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.48	12.2	3250	22.5	13000	90.0	40	17	043000-MTC
-5	8	5/16	0.59	15.1	3250	22.5	13000	90.0	45	26	053000-MTC
-6	10	3/8	0.63	16.0	3250	22.5	13000	90.0	50	28	063000-MTC
-8	12	1/2	0.80	20.2	3250	22.5	13000	90.0	70	41	083000-MTC
-10	16	5/8	0.99	25.2	3250	22.5	13000	90.0	75	73	103000-MTC
-12	19	3/4	1.14	29.0	3250	22.5	13000	90.0	95	91	123000-MTC
-16	25	10.48	1.48	37.7	3250	22.5	13000	90.0	115	155	163000-MTC



EN 45545-2 FIRE SAFE RAIL HOSE

4000-SC ISOBARIC STANDARD COVER HOSE



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 11237 R19. SAE 100R19. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 750% of EN 857 2SC and 40% of EN 853 2SN bend radius at rated working pressure.
- Alternative to spiral hoses in high pressure lines where flexibility is required.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Meets or exceeds EN 857 2SC performance requirements.
- Lightweight.
- 4000-SC hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

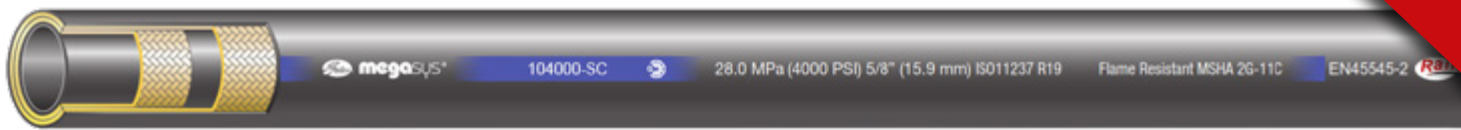
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	4000	28.0	16000	112.0	40	33	044000-SC
-5	8	5/16	0.61	15.4	4000	28.0	16000	112.0	45	34	054000-SC
-6	10	3/8	0.69	17.5	4000	28.0	16000	112.0	50	45	064000-SC
-8	12	1/2	0.82	20.8	4000	28.0	16000	112.0	70	51	084000-SC
-10	16	5/8	0.98	25.0	4000	28.0	16000	112.0	75	74	104000-SC
-12	19	3/4	1.15	29.1	4000	28.0	16000	112.0	95	93	124000-SC



EN 45545-2 FIRE SAFE RAIL HOSE

4000-HTC ISOBARIC STANDARD COVER HOSE

4000-HTC: the complete range of 4000-SC is also available with the special HTC cover which offers 300 times the abrasion resistance of the standard 4000-SC cover as per ISO 6945 with superior ozone and weathering resistance.



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 11237 R19. SAE 100R19. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

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MegaCrimp®.

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DNV, GL, LR, BV and ABS.

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- 750% of EN 857 2SC and 40% of EN 853 2SN bend radius at rated working pressure.
- Alternative to spiral hoses in high pressure lines where flexibility is required.
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SPECIFICATION TABLE

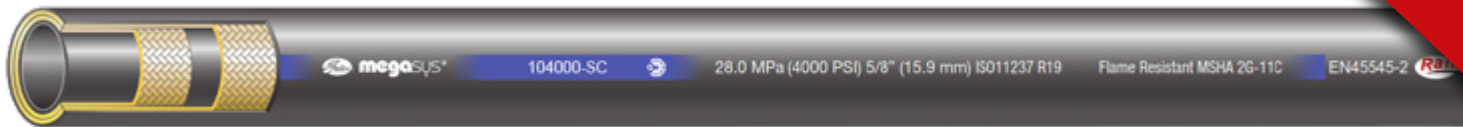
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	4000	28.0	16000	112.0	40	33	044000-HTC
-5	8	5/16	0.61	15.4	4000	28.0	16000	112.0	45	34	054000-HTC
-6	10	3/8	0.69	17.5	4000	28.0	16000	112.0	50	45	064000-HTC
-8	12	1/2	0.82	20.8	4000	28.0	16000	112.0	70	51	084000-HTC
-10	16	5/8	0.98	25.0	4000	28.0	16000	112.0	75	74	104000-HTC
-12	19	3/4	1.15	29.1	4000	28.0	16000	112.0	95	93	124000-HTC



EN 45545-2 FIRE SAFE RAIL HOSE

4000-MTC ISOBARIC STANDARD COVER HOSE

4000-MTC: the complete range of 4000-SC is also available with the special MTC cover which offers 25 times the abrasion resistance of the standard 4000-SC cover as per ISO 6945.



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NBR (Nitrile) based.

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Two braids of high tensile steel wire.

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NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent. For water emulsions, etc. see Temperature Limits Table.

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- 750% of EN 857 2SC and 40% of EN 853 2SN bend radius at rated working pressure.
- Alternative to spiral hoses in high pressure lines where flexibility is required.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Meets or exceeds EN 857 2SC performance requirements.
- Lightweight.
- 4000-SC hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

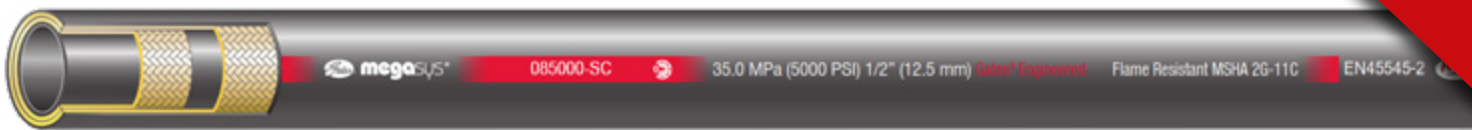
SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	4000	28.0	16000	112.0	40	33	044000-MTC
-5	8	5/16	0.61	15.4	4000	28.0	16000	112.0	45	34	054000-MTC
-6	10	3/8	0.69	17.5	4000	28.0	16000	112.0	50	45	064000-MTC
-8	12	1/2	0.82	20.8	4000	28.0	16000	112.0	70	51	084000-MTC
-10	16	5/8	0.98	25.0	4000	28.0	16000	112.0	75	74	104000-MTC
-12	19	3/4	1.15	29.1	4000	28.0	16000	112.0	95	93	124000-MTC



EN 45545-2 FIRE SAFE RAIL HOSE

5000-SC ISOBARIC STANDARD COVER HOSE



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent.

STANDARDS

Gates proprietary. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR and BV.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Meets or exceeds EN 857 2SC performance requirements.
- Lightweight.
- Meets or exceeds EN 857 2SC performance requirements.

SPECIFICATION TABLE

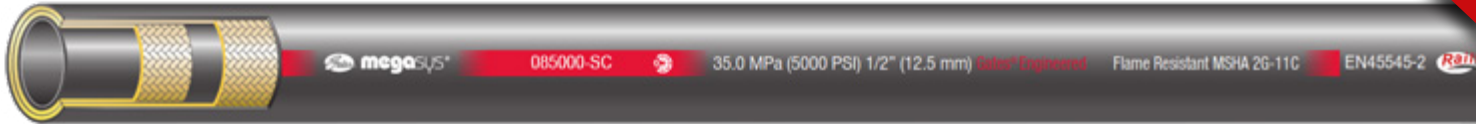
-size	DN	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	
-4	6	1/4	0.54	13.7	5000	35.0	20000	140.0	50	30	045000-SC
-5	8	5/16	0.61	15.4	5000	35.0	20000	140.0	55	34	065000-SC
-8	12	1/2	0.86	21.9	5000	35.0	20000	140.0	90	66	085000-SC



EN 45545-2 FIRE SAFE RAIL HOSE

5000-HTC ISOBARIC STANDARD COVER HOSE

5000-HTC: the complete range of 5000-SC is also available with the special HTC cover which offers 300 times the abrasion resistance of the standard 5000-SC cover as per ISO 6945 with superior ozone and weathering resistance.



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent.

STANDARDS

Gates proprietary. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR and BV.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Meets or exceeds EN 857 2SC performance requirements.
- Lightweight.
- Meets or exceeds EN 857 2SC performance requirements.

SPECIFICATION TABLE

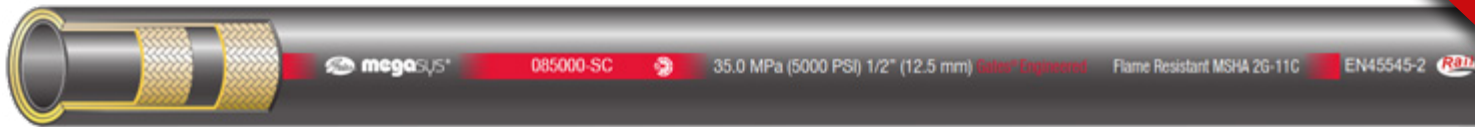
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	5000	35.0	20000	140.0	50	30	045000-HTC
-5	8	5/16	0.61	15.4	5000	35.0	20000	140.0	55	34	065000-HTC
-8	12	1/2	0.86	21.9	5000	35.0	20000	140.0	90	66	085000-HTC



EN 45545-2 FIRE SAFE RAIL HOSE

5000-MTC ISOBARIC STANDARD COVER HOSE

5000-MTC: the complete range of 5000-SC is also available with the special MTC cover which offers 25 times the abrasion resistance of the standard 5000-SC cover as per ISO 6945.



RECOMMENDED FOR

For external use (R23). High pressure hydraulic applications. Easy to route and to install in extremely tight areas.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent.

STANDARDS

Gates proprietary. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

MegaCrimp®.

TYPE APPROVALS

DNV, GL, LR and BV.

CHARACTERISTICS/BENEFITS

- 70% of EN 857 2SC and 50% of EN 853 2SN bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- Meets or exceeds EN 857 2SC performance requirements.
- Lightweight.
- Meets or exceeds EN 857 2SC performance requirements.

SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.54	13.7	5000	35.0	20000	140.0	50	30	045000-MTC
-5	8	5/16	0.61	15.4	5000	35.0	20000	140.0	55	34	065000-MTC
-8	12	1/2	0.86	21.9	5000	35.0	20000	140.0	90	66	085000-MTC



EN 45545-2 FIRE SAFE RAIL HOSE

EXHI HIGH PRESSURE HOSE



RECOMMENDED FOR

For external use (R23). Extremely high pressure and high impulse hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

Four (six for -20 to -32) alternating layers of spiralled, high tensile steel wire.

COVER

CR (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE

-40°C to +121°C. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 3862 R15. SAE 100R15. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

COUPLINGS

-6 to -20: GlobalSpiral; -24, -32: GlobalSpiral Maximum.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 7Up to 40% of EN 856 4SP/4SH bend radius at rated working pressure.
- Extremely Flexible.
- Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of SAE 100R15 bend radii (except -32).
- Meets or exceeds performance requirements of EN 856 4SP (-8 to -32) and EN 856 4SH (-12 to -32).
- EXHI hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

↔		○		⊙		🔥		⊙		📊		📏	
-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.		
-6	10	3/8	0.80	20.2	6000	42.0	24000	168.0	65	71	06EXHI		
-8	12	1/2	0.95	24.0	6000	42.0	24000	168.0	90	89	08EXHI		
-10	16	5/8	1.09	27.6	6000	42.0	24000	168.0	100	115	10EXHI		
-12	19	3/4	1.24	31.4	6000	42.0	24000	168.0	120	144	12EXHI		
-16	25	1	1.53	38.7	6000	42.0	24000	168.0	150	223	16EXHI		
-20	31	1.1/4	1.97	50.0	6000	42.0	24000	168.0	210	399	20EXHI		
-24	38	1.1/2	2.26	57.4	6000	42.0	24000	168.0	250	482	24EXHI		
-32	51	2	2.80	71.1	6000	42.0	24000	168.0	635	719	32EXHI		



EN 45545-2 FIRE SAFE RAIL HOSE

MED2-HT MEDIUM PRESSURE HOSE



RECOMMENDED FOR

For both external (R23) and internal (R22) use. High-temperature, high pressure hydraulic applications such as engine compartments. HL1-HL2 (R23 external use). HL1 (R22 internal use)

TUBE

CPE (Chlorinated polyethylene) based.

REINFORCEMENT

Two braids of high tensile steel wire.

COVER

CSM (Chlorosulfinated polyethylene) based. Blue. MSHA approved.

TEMPERATURE RANGE

-40°C to +150°C. For water emulsions, etc. see Temperature Limits Table.

STANDARDS

Exceeds ISO 1436 2SN R2ATS. EN 853 2SN. SAE 100R2AT. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130. HL1-HL2 (R23 external use). HL1 (R22 internal use).

COUPLINGS

Superior flex impulse performance: tested to 600,000 impulse cycles.

CHARACTERISTICS/BENEFITS

-4 to -20: MegaCrimp®; -24 to -32: GlobalSpiral Plus.

MED-HT hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.59	14.9	6000	42.0	24000	168.0	100	42	04MED2-HT
-6	10	3/8	0.74	18.8	5000	35.0	20000	132.0	130	54	06MED2-HT
-8	12	1/2	0.86	21.8	4250	29.0	17000	116.0	180	65	08MED2-HT
-10	16	5/8	0.99	25.1	3625	25.0	14500	100.0	200	77	10MED2-HT
-12	19	3/4	1.15	29.1	3100	21.5	12400	86.0	240	94	12MED2-HT
-16	20	1	1.48	37.6	2500	17.5	10000	70.0	300	141	16MED2-HT
-20	31	1 1/4	1.86	47.2	2250	15.5	9000	62.0	420	212	20MED2-HT
-24	38	1 1/2	2.15	54.6	1800	12.4	6000	42.0	500	209	24MED2-HT
-32	51	2	2.65	67.3	1500	10.3	5200	35.9	630	293	30MED2-HT



EN 45545-2 FIRE SAFE RAIL HOSE

SAEHP STANDARD COVER HOSE



RECOMMENDED FOR	For external use (R23). High pressure hydraulic applications.
TUBE	NBR (Nitrile) based.
REINFORCEMENT	Two braids of high tensile steel wire.
COVER	NBR/PVC based. MSHA approved.
TEMPERATURE RANGE	-40°C to +100°C constant and +121°C intermittent.
STANDARDS	Exceeds ISO 1436 2SN R2ATS. EN 853 2SN. SAE 100R2AT. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.
COUPLINGS	-4 to -20: MegaCrimp®; -24, -32: GlobalSpiral Plus.
TYPE APPROVALS	DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 50% of SAE 100R2 bend radius at rated working pressure based fluids.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- SAEHP hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

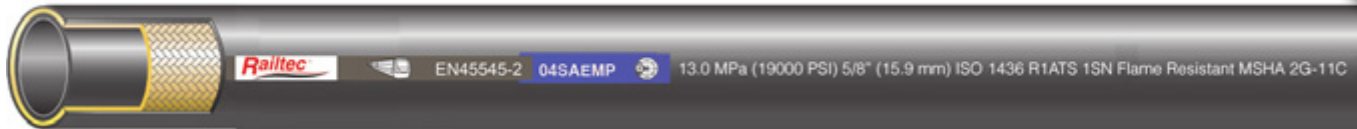
SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.58	15.0	5800	40.0	23200	160.0	50	35	04SAEHP
-5	8	5/16	0.64	16.3	5000	35.0	20000	140.0	55	39	05SAEHP
-6	10	3/8	0.73	18.8	4800	33.0	19200	132.0	65	51	06SAEHP
-8	12	1/2	0.86	21.8	4000	27.5	16000	112.0	90	61	08SAEHP
-10	16	5/8	0.98	25.1	3625	25.0	14500	100.0	100	73	10SAEHP
-12	19	3/4	1.14	29.0	3100	21.5	12400	86.0	120	91	12SAEHP
-16	25	1	1.48	37.6	2400	16.5	9600	66.0	150	129	16SAEHP
-20	31	1.1/4	1.87	47.5	1825	12.5	7300	50.0	210	225	20SAEHP
-24	38	1.1/2	2.15	54.6	1300	9.0	5200	36.0	250	263	24SAEHP
-32	51	2	2.65	67.3	1175	8.0	4700	32.0	315	335	32SAEHP



EN 45545-2 FIRE SAFE RAIL HOSE

SAEMP STANDARD COVER HOSE



RECOMMENDED FOR

For external use for rail (R23). Medium pressure hydraulic applications.

TUBE

NBR (Nitrile) based.

REINFORCEMENT

One braid of high tensile steel wire.

COVER

NBR/PVC based. MSHA approved.

TEMPERATURE RANGE

-40°C to +100°C constant and +121°C intermittent.

STANDARDS

Exceeds ISO 1436 1SN R1ATS. EN 853 1SN. SAE 100R1AT. EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130

COUPLINGS

-4 to -20: MegaCrimp®; -24, -32: GlobalSpiral Plus.

TYPE APPROVALS

DNV, GL, LR, BV and ABS.

CHARACTERISTICS/BENEFITS

- 50% of SAE 100R1 bend radius at rated working pressure.
- Superior flex impulse performance: tested to 600,000 impulse cycles.
- SAEMP hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

SPECIFICATION TABLE

-size	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.
-4	6	1/4	0.58	15.0	5800	40.0	23200	160.0	50	35	04SAEHP
-5	8	5/16	0.64	16.3	5000	35.0	20000	140.0	55	39	05SAEHP
-6	10	3/8	0.73	18.8	4800	33.0	19200	132.0	65	51	06SAEHP
-8	12	1/2	0.86	21.8	4000	27.5	16000	112.0	90	61	08SAEHP
-10	16	5/8	0.98	25.1	3625	25.0	14500	100.0	100	73	10SAEHP
-12	19	3/4	1.14	29.0	3100	21.5	12400	86.0	120	91	12SAEHP
-16	25	1	1.48	37.6	2400	16.5	9600	66.0	150	129	16SAEHP
-20	31	1.1/4	1.87	47.5	1825	12.5	7300	50.0	210	225	20SAEHP
-24	38	1.1/2	2.15	54.6	1300	9.0	5200	36.0	250	263	24SAEHP
-32	51	2	2.65	67.3	1175	8.0	4700	32.0	315	335	32SAEHP



EN 45545-2 FIRE SAFE RAIL HOSE

BLUE STRIPE™



RECOMMENDED FOR

For external use (R23). High-temperature coolant, water and air applications. Suitable for OAT (organic additive technology) engine fluids.

TUBE

EPDM.

REINFORCEMENT

-4 to -12 and -16: 4230SB - aramid spiral; -14 and -18 to -36: 4175SC - nylon cord.

COVER

EPDM Based.

TEMPERATURE RANGE

-40°C to +150°C.

STANDARDS

4230SB - normal duty heater hose to SAE 20R3 EC Class D-1.
4175SC - heavy duty radiator hose to SAE 20R1 EC Class D-1, standard wall.
EN45545-2:2013+A1:2015 R23 HL2 BS6853:1999 Amd1 Categories II & Ib GM/RT2130.

CHARACTERISTICS/BENEFITS

- Premium engine hose
- Compounded to resist electro-chemical degradation, the leading cause of hose failure
- Wrapped cover on size 7/8" and as of size 1.1/8"

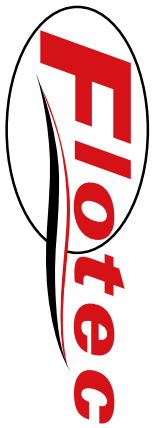


Do not use for fuel or oil transfer applications.

NOTE:

Also available as customer-made curved hose to SAE 20R4 EC D-1 to fit specific applications and meeting customer specifications. Curved hose recommended for upper, lower, by-pass, heater and other coolant applications. Can be installed without buckling, bending out of shape or straining at the connections.

Can be used with PowerGrip® Shrink Band Clamps, made from a heat-sensitive thermoplastic with a memory to prevent over- or under-tightening. Retains dynamic tension and never needs retightening. Eliminates the risk for antifreeze leaks and ground water contamination. Can be installed with an ordinary heat gun.



THE FLOTEC MISSION

To be a trusted and leading supplier of hydraulic, pneumatic and pipeline products and services to industries which have a need for the Flotec offering.

To be a trusted and leading supplier of reliable hose and engineering solutions to the rail market.

CORE VALUES

Innovation:

To continuously investigate and find new ways of doing things for the better.
To develop, create and invent unique solutions relevant to the task in hand.
Where appropriate, to apply existing ways of doing things to a new market.
Where appropriate, to modify existing assets to perform better.
Where appropriate, to radically transform and disrupt markets for the better.

Belonging, Empowerment, Ownership and Accountability:

To be a culture of diversity, inclusivity, creativity, innovation, teamwork, and family.
For each person to feel valued, appreciated and belonging to the Flotec culture, its shared mission, and values.
Each person to feel empowered and take ownership and accountability of their work.
To acknowledge, celebrate and reward successes and achievements.

Ethics and Trust:

To be trusted by all stakeholders for operating and behaving in an ethical, honest, and trustworthy manner.
To ensure that all stakeholders conduct themselves in compliance and accordance with Flotec's core values.
To encourage excellence with all stakeholders and throughout the multiple supply chains within which Flotec operates.

Customer Service:

To offer a solutions-based approach for all customers.
To provide a polite, courteous, professional, and knowledgeable experience.
To focus on service, solutions, and delivery.
To give such an exceptional service that customers keep coming back.



About Flotec

Established in 1995, Flotec specialises in a wide variety of hydraulic fluid power solutions.

From its purpose built facility in Loughborough, Leicestershire, Flotec offers hydraulic fluid power solutions, hydraulic hose production, extensive stock holding, an online store and trade counter service.

Flotec holds the prestigious title of Gates Hydraulics OEM Partner.

Keeping Rolling Stock Moving...

Flotec Industrial Limited provides a range of hydraulic rail hose and connection solutions for the maintenance and overhaul of traction fleets and rolling stock.





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