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Hose Visual Index

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Markets



Hose Overview Chart

Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-14	-16	-18	-20	-24	-32	-38	-40	-48	-56	-64	Standard Temp. Range °C	SAE	EN	ISO	Page
Braided Hydraulic - Industry Standard																							
421SN EN 853 1SN / SAE 100R1 AT		3250	3125	2600	2325	1875	1525		1275		900	725	575	362	362	290	220	145	-40/+100	100R1AT	853 1SN		A-1
421SN - HIGH TEMP EXCEEDS EN 853 1SN / SAE 100R1AT		3250	3125	2600	2325	1875	1525		1275		900	725	575						-40/+135	100R1AT	853 1SN		A-1
SLIMLINE 1SC EN 857 1SC		3265	3120	2610	2325	1885	1525		1275										-40/+100		857 1SC		A-2
301SN EN 853 2SN / SAE 100R2AT		5800	5000	4775	4000	3600	3100		2400		1800	1300	1150	1015	1000	650	400	365	-40/+100	100R2AT	853 2SN		A-2
301SN - High Temp. EXCEEDS EN 853 2SN / SAE 100R2AT		5800	5000	4775	4000	3600	3100		2400		1800	1300	1150						-40/+135	100R2AT	853 2SN		A-3
462PM / SLIMLINE 2SC EN 857 2SC		5800	5000	4785	4000	3625	3120		2395										-40/+100		857 2SC		A-3
471/ 471TC Hydraulic-Tough Cover EN 857 2SC		5800		5000	4250	3625	3125		2500										-40/+100		857 2SC		A-4
436 Hydraulic - Compact High Temperature SAE 100R16		5000		4000	3500	2750	2250		2000		1625	1250	1125						-48/+150	100R16			A-4
451PM / TRI-K-FLEX Hydraulic SAE 100R17		3000	3000	3000	3000	3000	3000		3000										-40/+100	100R17			A-5
MH-174™ BCS 174-1992 Underground Mining		6525		5510	5250	4060	4000		3120		2495	2120	1625						-40/+100				A-5
SAE 100R5R Hydraulic		3000	3000	2250	2000	1750	1500		800		625	500	350	350					-40/+100	100R5R			A-6
SAE 100R5C Hydraulic			3000	2250	2000	1750	1500		800		625	500	350		350				-40/+100	100R5			A-6
SAE 100 R5C Hi-temp Hydraulic			3000	2250	2000	1750	1500		800		625	500							-40/+150				A-7
601PM / EN 854 R3 Hydraulic		1250	1200	1125	1000	875	750		565		375	250	215						-40/+100	100R3	854		A-7
881PM / SAE 100R4 Hydraulic Suction and Return line							305		250		205	145	145		145	145			-40/+100	100R4			A-8
EN 854 R6/ SAE 100R6 Hydraulic		400	400	400	400	350	300		190										-40/+100	100R6	854		A-8

Hose Overview Chart

Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-14	-16	-18	-20	-24	-32	-38	-40	-48	-56	-64	Standard Temp. Range °C	SAE	EN	ISO	Page
Braided Hydraulic - Proprietary																							
POWERFLEX™ Hydraulic High Flexibility Hose		5800	5100	4800	4000	4000	4000		3600										-40/+100				A-9
PERPETUITY High Impulse Hose		6520	5800	5290	5070	4350	4350		3260										-40/+120				A-9
HITECH HOSE Hot Oil / Air Return Line					1000		1000		1000				500		500				-40/+150				A-10
401 / PILOT HOSE Return Line Hose		2170		1450	1450														-40/+120				A-10
SUPERJACK Hydraulic Jack Hose		10000		10000															-40/+100				A-11
Spiral Hydraulic - Industry Standard																							
701 Hydraulic EN 856 4SP				6500	6000	5000	5000		4000										-40/+100		856 4SP		A-11
731 Hydraulic EN 856 4SH							6000		5500		4700	4200	3600						-40/+100		856 4SH		A-12
721 Hydraulic EN 856 R12				4000	4000	4000	4000		4000		3000	2500	2500						-40/+125		856 R12		A-12
781 Hydraulic EN 856 R13							5000		5000		5000	5000	5000						-40/+125		856 R13		A-13
792PM / SPIRAFLEX Hydraulic SAE 100 R15							6000		6000		6000	6000							-40/+100	100R15			A-13

Hose Overview Chart

Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-14	-16	-18	-20	-24	-32	-38	-40	-48	-56	-64	Standard Temp. Range °C	SAE	EN	ISO	Page
Imported																							
Push - Lok® 801 – Push-Lok Plus®		350		350	300	300	300		200										-40/+100				B-1
201 Transportation SAE 100R5 SAE J140 All / D.O.T. FMVSS 106 All-Brake		3000	3000	2250	2000	1750	1500		800		625	500	350		350	200			-40/+150	100R5 / J1402 All			B-2
213 Transportation SAE J140 Al / D.O.T. FMVSS 106 Al - Air Brake		2000	1500	1500	1250	1000	750		400		300	300	200		175				-45/+150	J1402 Al			B-2
387 Hydraulic - Constant Working Pressure ISO 18752 - AC/BC/CC		3000		3000	3000	3000	3000		3000		3000	3000	3000						Standard Cover -40/+100 TC & ST -40/+125			18752	B-3
487 Hydraulic - Constant Working Pressure ISO 18752 - AC/BC/CC		4000		4000	4000	4000	4000		4000		4000	4000	4000						Standard Cover -40/+100 TC & ST -40/+125			18752	B-3
451TC/ST SAE 100R17, J1942 / ISO 11237 - 1 TYPE R17 - Constant Working Pressure / USCG HF / ABS		3000		3000	3000	3000	3000		3000		3000								-45/+100	100R17			B-4
351TC/ST SAE 100R19, J517 - Constant Working Pressure		4000		4000	4000	4000	4000												-45/+100	100R19			B-4
787 ISO 18752 - BC/DC Hydraulic - Constant Working Pressure					5000	5000	5000		5000		5000	5000	5000						Standard Cover -40/+100 TC & ST -40/+125			18752	B-5
797 ISO 18752 - BC/CC/DC Hydraulic - Constant Working Pressure					6000	6000	6000		6000		6000	6000	6000						Standard Cover -40/+100 TC & ST -40/+125			18752	B-5



- Braided Hydraulic - Industry Standard
- Braided Hydraulic - Proprietary
- Spiral Hydraulic - Industry Standard

Hydraulic Hose

A



ENGINEERING YOUR SUCCESS.

Certifications



CERTIFICATE NUMBER: 16-BY2212291

PORT OFFICE: BOMBAY, INDIA

Certificate of MANUFACTURING ASSESSMENT

This is to certify that: The undersigned did evaluate the relevant manufacturing quality procedures for the type of products of the manufacturer:

Parker Hannifin India Pvt. Ltd.

Plant at:

**KHASARA NO. 145, 146, 153/1, 153/3, 157
AMRAVATI ROAD, BAZARGAON
NAGPUR, MAHARASHTRA, INDIA**

The methods of assessing and controlling quality during production as required by the ABS Rules or Guides for the product and the associated specifications or standards were verified to reflect the specific surveys, required by the Rules and Standards for the manufacture of:

Hose, Non-metallic Flexible Hydraulic

711, 721TC, 731, 761/P35, 881

722TC & 722ST

221FR, 451TC, 471TC, 471ST, 772TC, 782TC, 792TC

The manufacturer presented a sample or specimen of the product, representative of the "type" approved, to the undersigned, for the purpose of verifying that the "type" has been manufactured in conformance with the Manufacturer's Product Design Assessments.

This Certificate of Manufacturing Assessment is an evaluation of the manufacturer alone and is neither an approval nor a rejection of the product described above. Unless cancelled, expired or revoked, this certificate remains valid subject to annual audits.

Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of the particular products being manufactured.

ISSUE DATE	28 September 2016	EXPIRATION DATE	27 September 2021
SURVEYOR	 Phaneendra Kumar Menon		
FIRST ANNUAL ENDORSEMENT			
SECOND ANNUAL ENDORSEMENT			
THIRD ANNUAL ENDORSEMENT			
FOURTH ANNUAL ENDORSEMENT			

Note: This Certificate remains valid only as long as the holder, either directly or through others, complies with the Rules and Standards of the ABS. The holder is responsible for the maintenance of the product and for the continued validity of the certificate. The holder is also responsible for the maintenance of the product and for the continued validity of the certificate. The holder is also responsible for the maintenance of the product and for the continued validity of the certificate.

48227 (06-14) Box 9 Page 1 of 2



Certificate Number: 17-BG158296-PCA

28/APR/2017

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 12-JAN-2022. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And, a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitles the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that, whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Flexible Hose
Model Name(s): 421SN

Presented to:
PARKER HANNIFIN INDIA PVT LTD
KHASARA NO. 145, 146, 153/1, 153/3, 157
AMRAVATI ROAD, BAZARGAON
MAHARASHTRA 440025
India

Intended Service: Hydraulic Oil, Water, Compressed Air

Description: Flexible hose

Tier: 3

Rating: Hose internal diameter 1/4 inch to 2 inches, pressure range 40-225 bar. Design temperature -40 deg C to 125 deg C For detailed ratings see attached table.

Service Restrictions: Unit Certification is not required for this product.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of, asbestos in this product.
- 2) Hoses are to be completed with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.
- 3) End connections are to comply with applicable requirements and limitations of the Steel Vessel Rules for the intended service (e.g. 4-B-733.5.1) 4)
- Hose assemblies are to be installed only where flexibility is required and are not to be subject to torsional deflection under normal conditions. Hose length is to be limited to that required by flexibility only.
- 5) Not to be installed in applications where large amount of repeated flexing is expected in combination with pressure pulses.
- 6) Marking for flexible hoses are to be permanently marked by the manufacturer with the following details as per 4-B-215.7.6 of the Steel Vessel Rules: Hose manufacturer's name or trademark, Date of manufacture (month/year), Designation



Certificate Number: 17-BG158304-PCA

28/APR/2017

Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 12-JAN-2022. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And, a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitles the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that, whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Flexible Hose
Model Name(s): 301SN

Presented to:
PARKER HANNIFIN INDIA PVT LTD
KHASARA NO. 145, 146, 153/1, 153/3, 157
AMRAVATI ROAD, BAZARGAON
MAHARASHTRA 440025
India

Intended Service: Hydraulic Oil, Water, Compressed Air

Description: Flexible hose

Tier: 3

Rating: Hose internal diameter 1/4 inch to 2 inches, pressure range 40 - 400 bar. Design temperature -40 C to 100 C For detailed ratings see attached table.

Service Restrictions: Unit Certification is not required for this product.

Comments:

- 1) The Manufacturer has provided a declaration about the control of, or the lack of, asbestos in this product.
- 2) Hoses are to be completed with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.
- 3) End connections are to comply with applicable requirements and limitations of the Steel Vessel Rules for the intended service (e.g. 4-B-733.5.1) 4)
- Hose assemblies are to be installed only where flexibility is required and are not to be subject to torsional deflection under normal conditions. Hose length is to be limited to that required by flexibility only.
- 5) Not to be installed in applications where large amount of repeated flexing is expected in combination with pressure pulses.
- 6) Marking for flexible hoses are to be permanently marked by the manufacturer with the following details as per 4-B-215.7.6 of the Steel Vessel Rules: Hose manufacturer's name or trademark, Date of manufacture (month/year), Designation

Certifications



Lloyd's Register

Type Approval Certificate Extension

This is to certify that Certificate Nos. 11/100000037, 11/100000038, 11/100000039, 11/100000040 & 11/100000041 for the undermentioned products is extended and renewed as shown:

This certificate is issued to:

PRODUCER	Parker Hannifin India Private Limited
PLACE OF PRODUCTION	Khasra 9185, 54A, 135/1, 135/3, 137, Anandnagar Road, Nagpur, Nagpur - 440003, Maharashtra, India
DESCRIPTION	High pressure, fire resistant flexible hoses of non-metallic material with or without permanently attached end fittings
TYPE	PD series PD-PERFORMER-15N & -25N PD-PROXOM-15C & -25C PD-THERMAL-15N & -25N PD-PROXOM-40P & -40H PD-DAFCTUS-300, -300 & -420
APPLICATION	PD-PERFORMER-15N & -25N PD-PROXOM-15C & -25C Medium to high pressure hydraulic lines suitable for marine, mining, offshore and general industrial applications PD-THERMAL-15N & -25N Medium to high pressure hydraulic lines suitable for marine, mining, offshore and general industrial applications up to operating temperature of 150°C PD-PROXOM-40P & -40H PD-DAFCTUS-300, -300 & -420 Heavy duty impactive high pressure hydraulic systems for marine, mining, offshore and general industrial applications like excavators, loaders, crushers, cranes, compactors, rock breakers and hydraulic drill rigs and other construction equipment

Certificate No.	11/100000042
Issue Date	27 June 2018
Expiry Date	26 June 2021
Sheet	1 of 3




R. Rajaguru
Technical Support Office
Lloyd's Register Group Limited

Voluntary Technical Support Office
Lloyd's Register Group Limited

Lloyd's Register Group Limited
71 Fenchurch Street, London EC3M 6BS

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DNV GL

Certificate No: **TAP00000012**

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings

with type designations: PD
Parker: No Skive 3015N & 4215N and Parker 471 / PIX: PERFORMER, THERMAL, PROXOM, ARMOUR

Issued to:
Parker Hannifin India Pvt. Ltd.
Nagpur maharashtra, India

is found to comply with:
DNV GL rules for classification - Ships PL 4 CH 6 Piping systems
DNVGL-GS-2101 - Marine and machinery systems and equipment, Edition July 2015
DNV GL class programme DNVGL-CP-0103 - Type approval - Flexible hoses

Application:
Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature range: THERMAL: -40°C to +135°C, Others: -40°C to +100°C
Max. working press.: Dependent on size and type, see certificate
Size: See certificate

This Certificate is valid until **2020-12-31**.
Issued at **Havik** on **2018-09-28**

DNV GL local station: **Mumbai**
Approval Engineer: **Abul Samad**

To: **DNV GL**

Global Specialty, Marine, Marine Systems
London City UK, India Group
Piping Desk, 66-00240

Marianna Sporen Harving
Head of Section

This Certificate is subject to terms and conditions outlined, any significant change in scope of application may void the Certificate issued. The validity date refers to the Type Approval Certificate and not to the approval of equipment/systems installed.

Approved by: PL 0115 - Mumbai, 2018-09-28

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www.dnvgl.com

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421SN

Hydraulic

EN 853 1SN / SAE 100 R1 AT



# Part Number	Hose I.D.		Hose R.O.D.	Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
421SNMSHA-4	1/4	6.4	11.1	13.4	3250	225	2.0	50	0.15	0.23
421SNMSHA-5	5/16	7.9	12.7	15.0	3125	215	2.3	58	0.18	0.27
421SNMSHA-6	3/8	9.5	15.1	17.4	2600	180	2.5	65	0.22	0.33
421SNMSHA-8	1/2	12.7	18.2	20.7	2325	160	3.5	90	0.30	0.44
421SNMSHA-10	5/8	15.9	21.4	23.9	1875	130	4.0	100	0.34	0.50
421SNMSHA-12	3/4	19.0	25.4	27.8	1525	105	4.8	120	0.46	0.68
421SNMSHA-16	1	25.4	33.3	35.8	1275	88	6.0	150	0.63	0.94
421SNMSHA-20	1-1/4	31.8	41.8	44.8	900	63	16.5	420	0.97	1.44
421SNMSHA-24	1-1/2	38.1	46.4	51.0	725	50	20.0	500	1.07	1.59
421SNMSHA-32	2	50.8	59.5	64.5	575	40	25.0	630	1.51	2.25
*421SNPM-38PM	2-3/8	60.3	69.0	75.0	362	25	30.0	762	1.73	2.58
*421SNPM-40PM	2-1/2	63.5	73.0	77.5	362	25	30.0	762	1.86	2.77
*421SNPM-48PM	3	76.2	86.4	94.4	290	20	36.0	915	2.59	3.85
*421SNPM-56PM	3-1/2	88.9	98.5	105.5	220	15	42.0	1067	2.89	4.30
*421SNPM-64PM	4	101.6	110.0	117.0	145	10	43.5	1105	3.09	4.60

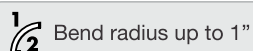
Impulse test conducted with Parker Fittings. *All hoses upto -16 have passed 1,50,000 cycles impulse test at half the Min. bend radius". *Not covered under HS/SAE/EN

Application:

Recommended for medium pressure hydraulic oil lines.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : NBR-PVC synthetic rubber



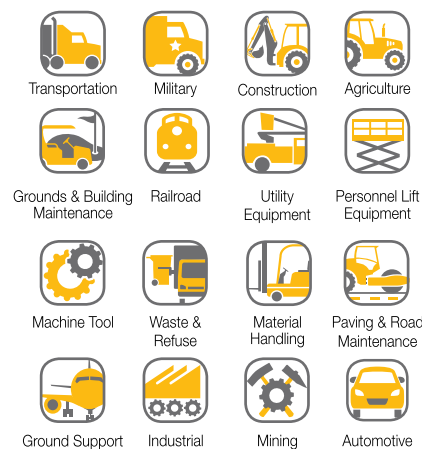
Temp. Range

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 1,50,000 cycles.
Tested upto - 3,00,000 cycles.

Markets



Type Approvals:

BV, DNV-GL, LR, MED, ABS

421SN High Temperature

Hydraulic

EXCEEDS EN 853 1SN / SAE 100R1AT



# Part Number	Hose I.D.		Hose R.O.D.	Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
421SNPMHITEMP-4PM	1/4	6.4	11.1	13.4	3250	225	4.0	100	0.15	0.23
421SNPMHITEMP-5PM	5/16	7.9	12.7	15.0	3125	215	4.5	115	0.18	0.27
421SNPMHITEMP-6PM	3/8	9.5	15.1	17.4	2600	180	5.0	130	0.22	0.33
421SNPMHITEMP-8PM	1/2	12.7	18.2	20.7	2325	160	7.0	180	0.30	0.44
421SNPMHITEMP-10PM	5/8	15.9	21.4	23.9	1875	130	8.0	200	0.34	0.50
421SNPMHITEMP-12PM	3/4	19.0	25.4	27.8	1525	105	9.5	240	0.46	0.68
421SNPMHITEMP-16PM	1	25.4	33.3	35.5	1275	88	12.0	300	0.63	0.94
421SNPMHITEMP-20PM	1-1/4	31.8	40.5	43.5	900	63	16.5	420	0.97	1.44
421SNPMHITEMP-24PM	1-1/2	38.1	46.4	50.4	725	50	20.0	500	1.07	1.59
421SNPMHITEMP-32PM	2	50.8	59.5	63.5	575	40	25.0	630	1.51	2.25

Application:

Recommended for medium pressure hydraulic oil lines & up to 135°C

Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : One braid steel wire
Outer Cover : CPE / CR Synthetic rubber

Temp. Range

- 40°C to 135°C
(-40°F to 275°F)

Markets



SLIMLINE

Hydraulic
EN 857 1SC

# Part Number	Hose I.D.		Hose R.O.D.	Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
EN857PM-4PM	1/4	6.4	10.2	13.0	3265	225	2.9	75	0.13	0.19
EN857PM-5PM	5/16	7.9	11.5	14.0	3120	215	3.3	85	0.14	0.21
EN857PM-6PM	3/8	9.5	13.6	16.4	2610	180	3.5	90	0.17	0.26
EN857PM-8PM	1/2	12.7	17.0	19.5	2325	160	5.1	130	0.24	0.35
EN857PM-10PM	5/8	15.9	20.4	22.5	1885	130	5.9	150	0.30	0.45
EN857PM-12PM	3/4	19.0	23.8	26.2	1525	105	7.0	180	0.36	0.54
EN857PM-16PM	1	25.4	31.3	34.0	1275	88	9.0	230	0.54	0.80

*Extremely Compact hose dimensions, extra high flexibility, extra small minimum bend radius, very low weight

Application:

Recommended for medium pressure hydraulic oil lines, compact design supports at constraint installation routing.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One high tensile steel wire braid
Outer Cover : SBR - Synthetic rubber

Temp. Range

- 40°C to +100°C (-40°F to +212°F)

Markets



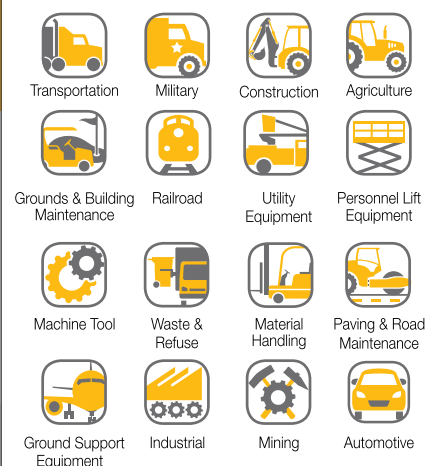
301SN

Hydraulic
EN 853 2SN / SAE 100 R2AT

# Part Number	Hose I.D.		Hose R.O.D.	Hose O.D.	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
301SNMSHA-4	1/4	6.4	12.9	15.0	5800	400	2.0	50	0.26	0.39
301SNMSHA-5	5/16	7.9	14.3	16.6	5000	350	2.2	58	0.29	0.43
301SNMSHA-6	3/8	9.5	16.9	19.0	4775	330	2.5	65	0.36	0.53
301SNMSHA-8	1/2	12.7	19.8	22.3	4000	275	3.5	90	0.42	0.63
301SNMSHA-10	5/8	15.9	23.0	25.5	3600	250	4.0	100	0.50	0.74
301SNMSHA-12	3/4	19.0	27.0	29.4	3100	215	4.8	120	0.64	0.95
301SNMSHA-16	1	25.4	34.9	38.1	2400	165	6.0	150	0.91	1.35
301SNMSHA-20	1-1/4	31.8	44.0	47.5	1800	125	16.5	420	1.52	2.26
301SNMSHA-24	1-1/2	38.1	50.8	54.5	1300	90	20.0	500	1.58	2.35
301SNMSHA-32	2	50.8	63.5	67.2	1150	80	25.0	630	1.96	2.92
*301SNPM-38PM	2-3/8	60.3	71.5	75.8	1015	70	30.0	762	2.29	3.41
*301SNPM-40PM	2-1/2	63.5	76.2	82.5	1000	69	30.0	762	2.81	4.18
*301SNPM-48PM	3	76.2	89.4	96.0	650	45	36.0	915	3.19	4.75
*301SNPM-56PM	3-1/2	88.9	101.2	107.5	400	28	42.0	1067	3.49	5.20
*301SNPM-64PM	4	101.6	113.2	118.5	365	25	43.5	1105	3.56	5.30

Impulse test conducted with Parker Fittings. *All hoses upto -16 have passed 2,00,000 cycles impulse test at half the Min. bend radius*. *Not covered under HS/SAE/EN

Markets



Type Approvals:

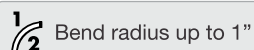
BV, DNV-GL, LR, MED, ABS

Application:

Recommended for high pressure hydraulic oil lines.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braids steel wire
Outer Cover : NBR- PVC Synthetic rubber



Temp. Range

- 40°C to 100°C (-40°F to 212°F)

Impulse Cycles:

Specified - 2,00,000 cycles.
Tested upto - 4,00,000 cycles.



301SN High Temperature

Hydraulic

Exceeds EN 853 2SN / SAE 100 R2AT



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
301SNPMHITEMP-4PM	1/4	6.4	12.9	15.0	5800	400	4.0	100	0.26	0.39
301SNPMHITEMP-5PM	5/16	7.9	14.3	16.6	5000	350	4.5	115	0.29	0.43
301SNPMHITEMP-6PM	3/8	9.5	16.9	19.0	4775	330	5.0	130	0.36	0.53
301SNPMHITEMP-8PM	1/2	12.7	19.8	22.3	4000	275	7.0	180	0.42	0.63
301SNPMHITEMP-10PM	5/8	15.9	23.0	25.5	3600	250	8.0	200	0.50	0.74
301SNPMHITEMP-12PM	3/4	19.0	27.0	29.4	3100	215	9.5	240	0.64	0.95
301SNPMHITEMP-16PM	1	25.4	34.9	38.1	2400	165	12.0	300	0.91	1.35
301SNPMHITEMP-20PM	1-1/4	31.8	40.5	43.5	1800	125	16.5	210	1.09	1.62
301SNPMHITEMP-24PM	1-1/2	38.1	46.5	50.0	1300	90	20.0	250	1.33	1.98
301SNPMHITEMP-32PM	2	50.8	60.3	64.0	1150	80	25.0	300	1.84	2.74

Application:

Recommended for high pressure hydraulic oil lines & up to 135°C.

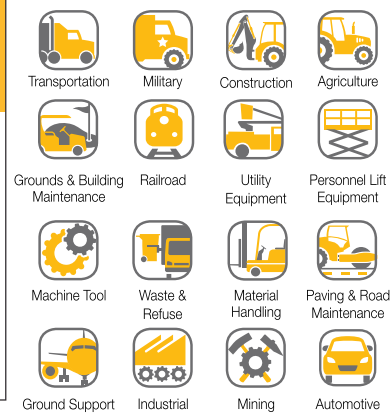
Construction:

Inner tube : CPE - Synthetic rubber
Reinforcement : Two braids steel wire
Outer Cover : CPE / CR Synthetic rubber

Temp. Range

- 40°C to 135°C
(-40°F to 275°F)

Markets



462PM / SLIMLINE

Hydraulic

EN 857 2SC



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
462PM-4PM	1/4	6.4	11.2	13.6	5800	400	3.0	75	0.20	0.30
462PM-5PM	5/16	7.9	12.7	15.2	5000	350	3.3	85	0.24	0.35
462PM-6PM	3/8	9.5	15.0	17.4	4785	330	3.5	90	0.28	0.41
462PM-8PM	1/2	12.7	18.3	20.9	4000	275	5.1	130	0.34	0.50
462PM-10PM	5/8	15.9	21.4	24.0	3625	250	6.7	170	0.48	0.71
462PM-12PM	3/4	19.0	25.5	27.7	3120	215	7.4	200	0.54	0.81
462PM-16PM	1	25.4	33.4	35.6	2395	165	9.8	250	0.82	1.22

Application:

Recommended for high pressure hydraulic oil lines, compact design supports at constraint installation routing.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two braids steel wire
Outer Cover : SBR - Synthetic rubber

Temp. Range

- 40°C to +100°C
(-40°F to +212°F)

Markets



471 / 471TC

Hydraulic – Tough Cover
EN857 TYPE 2SC

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
471 / 471TC-4	1/4	6.3	0.51	13	5800	400	2	50	0.20	0.30
471 / 471TC-6	3/8	10.0	0.68	17	5000	350	2-1/2	65	0.28	0.42
471 / 471TC-8	1/2	12.5	0.80	20	4250	300	3-1/2	90	0.35	0.52
471 / 471TC-10	5/8	16.0	0.94	24	3625	250	4	100	0.44	0.66
471 / 471TC-12	3/4	19.0	1.09	28	3125	215	4-3/4	120	0.58	0.86
*471 / 471TC-16	1	25.0	1.40	35	2500	175	6	150	0.79	1.17

* Under Validation

Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube : NBR - Synthetic rubber
 Reinforcement : Two braids steel wire
 Outer Cover : NBR-PVC Synthetic rubber
 Smooth Cover for TC and Wrap Finish for regular Hose

Temp. Range

-40°C to +100°C
 (-40°F to +212°F)

Markets

Type Approvals: ABS

436

Hydraulic - Compact High Temperature (150°C)
SAE 100R16

# Part Number	Hose I.D.		Hose O.D. mm	Working Pressure		Minimum Bend Radius	
	inch	mm		psi	bar	inch	mm
436PM-4PM	1/4	6.4	13.4	5000	350	2.0	50
436PM-6PM	3/8	9.5	17.4	4000	280	2.5	65
436PM-8PM	1/2	12.7	20.7	3500	245	3.5	90
436PM-10PM	5/8	15.9	23.9	2750	192	4.0	100
436PM-12PM	3/4	19.0	27.8	2250	157	4.8	120
436PM-16PM	1	25.4	36.8	2000	140	6.0	150
436PM-20PM	1-1/4	31.8	45.4	1625	113	8.3	210
*436-24	1-1/2	38.1	51.0	1250	87	10.0	250
*436-32	2	50.8	64.6	1125	78	12.5	315

*Validated to Parker GHS

Application:

Recommended for high pressure hydraulic oil lines & up to 150°C.

Construction:

Inner tube : CPE - Synthetic rubber
 Reinforcement : Two braids steel wire
 Outer Cover : CPE- Synthetic rubber, blue colour cover

Temp. Range

- 48°C to +150°C
 (-55°F to +302°F)

Markets

451PM / TRI-K-FLEX

Hydraulic
SAE 100R17



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
451PM-4PM	1/4	6.4	10.2	12.2	3000	210	2.0	50	0.12	0.18
451PM-5PM	5/16	7.9	11.7	13.9	3000	210	2.1	55	0.13	0.20
451PM-6PM	3/8	9.5	13.8	15.8	3000	210	2.5	65	0.20	0.30
451PM-8PM	1/2	12.7	18.0	20.1	3000	210	3.5	90	0.31	0.46
451PM-10PM	5/8	15.9	22.1	23.9	3000	210	3.9	100	0.47	0.70
451PM-12PM	3/4	19.0	25.6	27.7	3000	210	4.7	120	0.60	0.90
451PM-16PM	1	25.4	34.6	37.6	3000	210	5.9	150	0.81	1.20

Markets



Application:

Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One or two braids steel wire
Outer Cover : SBR - Synthetic rubber

Temp. Range

- 40°C to +100°C
(-40°F to +212°F)

MH-174™

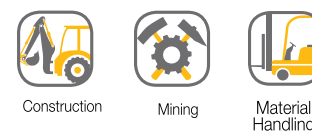
BCS 174-1992 Underground Mining



# Part Number	Hose I.D.		Hose R.O.D	Hose O.D	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	mm	mm	psi	bar	inch	mm	lbs/ft	kg/m
MH174PM-4PM	1/4	6.4	12.7	17.0	6525	450	4.0	100	0.31	0.46
MH174PM-6PM	3/8	9.5	17.0	21.1	5510	380	5.1	130	0.46	0.68
MH174PM-8PM	1/2	12.7	21.1	26.4	5250	362	5.9	150	0.64	0.95
MH174PM-10PM	5/8	15.9	24.5	29.8	4060	280	7.5	190	0.73	1.08
MH174PM-12PM	3/4	19.0	28.3	33.7	4000	276	9.0	230	0.97	1.45
MH174PM-16PM	1	25.4	35.3	40.7	3120	215	11.8	300	1.15	1.71
MH174PM-20PM	1-1/4	31.8	41.4	47.5	2495	172	15.0	380	1.61	2.40
MH174PM-24PM	1-1/2	38.1	48.0	54.1	2120	146	17.7	450	1.81	2.70
MH174PM-32PM	2	50.8	60.7	66.8	1625	112	23.6	600	2.35	3.50

* Conforms to British Coal 174-1992 specifications.

Markets



Application:

Recommended for medium-high pressure hydraulic oil lines & for underground mines applications.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : Two high tensile steel wire braids
Outer Cover : CR - Synthetic rubber, flame resistant

Temp. Range

- 40°C to +100°C (-40°F to +212°F)

Impulse Cycles:

Tested upto - 1,00,000 cycles @ 35 CPM.

SAE 100R5R

Hydraulic



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm	inch	mm	psi	bar	inch	mm	lbs/ft	kg/m
R5RPM-4PM	3/16	5.0	0.51	13.0	3045	210	2.95	75	0.15	0.23
R5RPM-5PM	1/4	6.4	0.57	14.4	3045	210	3.35	85	0.17	0.26
R5RPM-6PM	5/16	7.9	0.68	17.2	2277	157	3.93	100	0.24	0.35
R5RPM-8PM	13/32	10.3	0.77	19.5	2030	140	4.52	115	0.27	0.40
R5RPM-10PM	1/2	12.7	0.92	23.4	1769	122	5.51	140	0.38	0.56
R5RPM-12PM	5/8	15.9	1.0	27.4	1523	105	6.49	165	0.44	0.66
R5RPM-16PM	7/8	22.2	1.23	31.4	812	56	7.28	185	0.45	0.67
R5RPM-20PM	1-1/8	28.7	1.5	38.1	624	43	9.0	230	0.54	0.80
R5RPM-24PM	1-3/8	34.9	1.5	44.5	508	35	10.43	265	0.72	1.07
R5RPM-32PM	1-13/16	46.0	1.75	56.5	348	24	13.2	335	0.99	1.48
R5RPM-40PM	2-3/8	60.0	2.87	73.0	348	24	21.0	610	1.41	2.10

Markets



Application:

Recommended for medium pressure hydraulic oil lines & meets SAE 100R5 specifications.

Construction:

Inner tube : NBR - Synthetic rubber
Reinforcement : One fibre braid and one steel wire braid
Outer Cover : SBR - Synthetic rubber

Temp. Range

- 40°C to +100°C
(-40°F to +212°F)

Impulse Cycles:

Tested upto - 1,50,000 cycles

SAE 100R5C

Hydraulic



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius	
	inch	mm	inch	mm	psi	bar	inch	mm
R5CPM-4PM	3/16	5.0	0.51	13.0	3045	210	2.95	75
R5CPM-5PM	1/4	6.4	0.58	14.8	3045	210	3.4	85
R5CPM-6PM	5/16	8.0	0.68	17.2	2277	157	4.0	100
R5CPM-8PM	13/32	10.3	0.77	19.5	2030	140	4.6	115
R5CPM-10PM	1/2	12.7	0.92	23.4	1769	122	5.5	140
R5CPM-12PM	5/8	16.0	1.08	27.4	1523	105	6.5	165
R5CPM-16PM	7/8	22.2	1.23	31.4	812	56	7.3	185
R5CPM-20PM	1-1/8	29.0	1.50	38.1	624	43	9.0	230
R5CPM-24PM	1-3/8	35.0	1.75	44.5	508	35	10.5	265
R5CPM-32PM	1-13/16	46.0	2.22	56.4	348	24	13.2	335
R5CPM-40PM	2-3/8	60.0	2.87	73.0	348	24	21.0	610

Markets



Application:

- Oil lubrication system in Railway diesel Engine.
- Purging operation in steel melting shop in Steel industries
- Petroleum base hydraulic fluids and lubricating oils.

Construction:

Inner Tube : NBR - Synthetic rubber
Reinforcement : High tension steel wire braid
Outer Cover : Fibre braid

Temp. Range

-40°C to +100°C
(-40°F to +212°F)