Hydraulic Hoses Overview

Low Pressure

	Hose	Fitting serie	Working Pressure (MPa) at size / DN -3 (5)	-4 (6)	-5 (8)	-6 (10)	-8 (12)	-10 (16)	-12 (19)	-16 (25)	-20 (31)	-24 (38)	-32 (51)	-40 (63)	-48 (76)	-56 (90)	-64 (100)	-80 (125)	-96 (150)	Temp.	Construction	Standard
Push-Lok	Multipurpose	801Plus	*82*		2.4		2.4	2.1	2.1	2.1	1.4									-40/+100	1 braid, fibre	
		830M	*82*		1.6		1.6	1.6	1.6	1.6										-40/+80	1 braid, fibre	
		837BM	*82*		1.6		1.6	1.6	1.6	1.6	1.6									-40/+100	1 braid, fibre	
		837PU	*82*		1.6		1.6	1.6	1.6	1.6	1.6									-40/+100	1 braid, fibre	
	Phosphate Ester	804	*82*		1.0		1.0	1.0	1.0	1.0										-40/+100	1 braid, fibre	
	Fire retardant	821FR	*82*		2.4		2.1	2.1		1.7										-40/+80	1 braid, fibre	
	High temperature	836	*82*		2.8		2.8	2.8	2.4	2.1										-40/+100	1 braid, fibre	
		846	*82*		1.6		1.6	1.6	1.6	1.6										-48/+150	1 braid, fibre	
	Non-conductive	838M	*82*		1.6		1.6	1.6	1.6	1.6										-40/+80	1 braid, fibre	

Low Pressure

	Hose	Fitting serie	Working Pressure (MPa) at size / DN -3 (5)	-4 (6)	-5 (8)	-6 (10)	-8 (12)	-10 (16)	-12 (19)	-16 (25)	-20 (31)	-24 (38)	-32 (51)	-40 (63)	-48 (76)	-56 (90)	-64 (100)	-80 (125)	-96 (150)	Temp.	Construction	Standard
Transport + Hydraulic	Standard	601	*(43, 48)*		8.6		7.8	6.9		5.2	3.9									-40/+125	2 braids, fibre	EN 854-R3 - SAE 100R3
		611	*47*		2.8	2.8	2.8	2.8	2.4	2.1	2.0									-40/+150	1 braid, fibre	
		681	*47*		7.5	6.8	6.3	5.8	5.0	4.5	4.0									-40/+100	1 braid, fibre	EN 854-2TE
	High temperature Railway	611HT	*47*		2.8	2.8	2.8	2.8	2.4	2.1	2.0									-40/+150	1 braid, fibre	EN 854-R6
		681DB	*47*		7.5	6.8	6.3	5.8	5.0	4.5	4.0									-40/+100	1 braid, fibre	EN 854-2TE
	Transportation	201	*26*		20.7	20.7	15.5	13.8	12.0	10.3	5.5	4.3	3.5	2.4						-40/+150	1 braid, wire	SAE 100R5 - SAE J1402 AII
		206	*26*		20.7	20.7	15.5	13.8	12.0	10.3	5.5	4.3	3.5	2.4						-48/+150	1 braid, wire	SAE 100R5 - SAE J1402 AII
		213	*26*		13.8	10.3	10.3	8.6	6.9	5.2	2.8	2.1	1.7	1.4						-45/+150	1 braid, wire	SAE J1402 AI
		293	*26*		3.5		3.5	3.5	3.1	3.1	3.1									-50/+150	1 braid, wire	SAE J1402 AI
	Fire retardant	221FR	*26*			3.5	3.5	3.5	3.5	3.5	3.5									-20/+100	1 braid, wire	SAE J1527 R3
	Refrigeration	285	*26*		3.4		3.4	3.4	3.4	3.4										-31/+125	1 braid, wire	SAE J2064 C

Medium Pressure

	Hose	Fitting serie	Working Pressure (MPa) at size / DN -3 (5)	-4 (6)	-5 (8)	-6 (10)	-8 (12)	-10 (16)	-12 (19)	-16 (25)	-20 (31)	-24 (38)	-32 (51)	-40 (63)	-48 (76)	-56 (90)	-64 (100)	-80 (125)	-96 (150)	Temp.	Construction	Standard
	GlobalCore	387	*(43/48, 77)*		21.0		21.0	21.0	21.0	21.0	21.0	21.0	21.0							-40/+100	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-BC [2]
		387TC	*(43/48, 77)*		21.0		21.0	21.0	21.0	21.0	21.0	21.0	21.0							-40/+125	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-CC [2]
		387ST	*(43/48, 77)*		21.0		21.0	21.0	21.0	21.0	21.0	21.0	21.0							-40/+125	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-CC [2]
		487	*(43/48, 77)*		28.0		28.0	28.0	28.0	28.0	28.0	28.0	28.0							-40/+100	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-BC [2]
		487TC	*(43/48, 77)*		28.0		28.0	28.0	28.0	28.0	28.0	28.0	28.0							-40/+125	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-CC [2]
		487ST	*(43/48, 77)*		28.0		28.0	28.0	28.0	28.0	28.0	28.0	28.0							-40/+125	1/2 braids, wire [1]	Exceeds ISO 18752-AC - ISO 18752-CC [2]
	Standard	BCH1	*16, 46*		22.5	21.5	18.0	16.0	13.0	10.5	8.8									-40/+100	1 braid, wire	EN 857 1SC - ISO 11237
		BCH2	*16, 48*		40.0	35.0	33.0	27.5	25.0	21.5	16.5									-40/+100	2 braids, wire	EN 857 2SC - ISO 11237
		421SN	*48*		22.5	21.5	18.0	16.0	13.0	10.5	8.8	6.3	5.0	4.0						-40/+100	1 braid, wire	EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT
		301SN	*48*		40.0	35.0	33.0	27.5	25.0	21.5	16.5	12.5	9.0	8.0						-40/+100	2 braids, wire	EN 853-2SN - ISO 1436-2SN/R2AT - SAE 100R2AT
		441	*46/48*		35.0	29.7	28.0	24.5	19.2	15.7	14.0									-40/+125	1/2 braids, wire [1]	ISO 11237-R16 - SAE 100R16
		492	*46*		28.0	25.0	22.5	19.0	15.0	15.0	11.0	7.5								-40/+100	1 braid, wire	Exceeds EN 857-1SC - ISO 11237-1SC
		462	*(46, 48)*		42.5	40.0	35.0	31.0	28.0	28.0	21.0	17.2								-40/+100	2 braids, wire	Exceeds EN 857-2SC - ISO 11237-2SC
	High abrasion resistance MSHA approved	301TC	*48*		40.0	35.0	33.0	27.5	25.0	21.5	16.5	12.5	9.0	8.0						-40/+100	2 braids, wire	Exceeds EN 853-2SN - ISO 1436-2SN/R2AT
		462TC	*(48, 48 2p)*		42.5	40.0	35.0	31.0	28.0	28.0	21.0	17.2	14.6	11.2	7.0	7.0				-40/+100	2 braids, wire	Exceeds EN 857-2SC - ISO 11237-2SC
		471TC	*48*		40.0	36.0	35.0	29.7	25.0	21.5	17.5									-40/+100	2 braids, wire	EN 857-2SC - ISO 11237-2SC
		492TC	*46*		28.0	25.0	22.5	19.0	15.0	15.0	11.0	7.5								-40/+100	1 braid, wire	EN 857-1SC - ISO 11237-1SC
	Extreme abrasion resistance	492ST	*46*		28.0	25.0	22.5	19.0	15.0	15.0	11.0	7.5								-40/+100	1 braid, wire	EN 857-1SC - ISO 11237-1SC
		462ST	*(46, 48)*		42.5	40.0	35.0	31.0	28.0	28.0	21.0	17.2								-40/+100	2 braids, wire	EN 857-2SC - ISO 11237-2SC
	Low / High temperature	426	*(43, 48)*		19.2		15.7	14.0	10.5	8.7	7.0	4.3	3.5	2.6						-46/+150	1 braid, wire	SAE 100R1AT
		436	*48*				27.5	24.0	19.0	15.5	13.8									-48/+150	2 braids, wire	SAE 100R16
		461LT	*46/48*		42.5	40.0	35.0	31.0	28.0	28.0	21.0									-50/+100	2 braids, wire	Exceeds EN 857-2SC - ISO 11237-2SC
		HT2	*48*		40.0	36.0	35.0	29.7	25.0	21.5	17.5									-40/+125	2 braids, wire	Parker specification
	Phosphate Ester	304	*(43, 48)*		34.5		27.5	24.0		15.5	13.8	11.2	8.6	7.8						-40/+80	2 braids, wire	SAE 100R2AT
	Railway	441RH	*46/48*		35.0	29.7	28.0	24.5	19.2	15.7	14.0									-40/+125	1/2 braids, wire [1]	ISO 11237-R16 - SAE 100R16
		421RH	*48*									6.3	5.0	4.0						-40/+100	1 braid, wire	EN 853-1SN - ISO 1436-1SN/R1AT - SAE 100R1AT
		477RH	*48*		45.0	42.5	40.0	38.0	35.0	35.0	28.0									-40/+100	2 braids, wire	
	Water cleaning	493	*48*		20.0	20.0	20.0	17.5												max. +120	1 braid, wire	
		463	*46*			40.0	40.0	35.0												max. +120	2 braids, wire	
	Pilot	412	*47*	12.0	12.0	12.0	12.0													-40/+100	1 braid, wire	
		412ST	*47*	12.0	12.0	12.0	12.0													-40/+100	1 braid, wire	
	Wire cover	421WC	*43*		19.0		15.5	13.8		8.6	6.9									-40/+120	1 braid, wire	ISO S1436-1SN/R1AT - SAE 100R1AT
	Powerlift	477	*48*		45.0	42.5	40.0	38.0	35.0	35.0	25.0									-40/+100	2 braids, wire	
		477TC	*48*		45.0	42.5	40.0	38.0	35.0	35.0	25.0									-40/+100	2 braids, wire	
		477ST	*48*		45.0	42.5	40.0	38.0	35.0	35.0	25.0									-40/+100	2 braids, wire	
	Extremely flexible	692	*46*		21.0	21.0	21.0	21.0	21.0											-40/+100	1/2 braids, wire [1]	Exceeds SAE 100R17
		692TWIN	*46*		21.0	21.0	21.0	21.0	21.0											-40/+100	1/2 braids, wire [1]	Exceeds SAE 100R17
		692TC	*46*		21.0	21.0	21.0	21.0	21.0											-40/+100	1/2 braids, wire [1]	Exceeds SAE 100R17
	Suction	811	*(48, IF, ⊕)*							2.1	1.7	1.4	1.0	0.7	0.4	0.4				-40/+100	1 braid, 1 steelspiral	SAE 100R4
		811S	*(IF, ⊕)*												1.0	1.0	1.0	1.0	1.0	-40/+100	1 braid, 1 steelspiral	Exceeds SAE 100R4
		881	*(43, 48, ⊕)*							2.1	1.7	1.4	1.0	0.7	0.4					-40/+121	1 braid, 1 steelspiral	SAE 100R4
	Polyurethane Cover	462PU	*48*		42.5	40.0	35.0	31.0	28.0											-50/+100	2 braids, wire	Exceeds EN 857 2SC - ISO 11237 type 2SC
		462PU Twin	*48*		42.5	40.0	35.0	31.0	28.0											-50/+100	2 braids, wire	Exceeds EN 857 2SC - ISO 11237 type 2SC
		692PU	*(46, 48)*		21.0	21.0	21.0	21.0	21.0											-40/+100	1/2 braids, wire [1]	
		692PU Twin	*(46, 48)*		21.0	21.0	21.0	21.0	21.0											-40/+100	1/2 braids, wire [1]	

High Pressure

	Hose	Fitting serie	Working Pressure (MPa) at size / DN -3 (5)	-4 (6)	-5 (8)	-6 (10)	-8 (12)	-10 (16)	-12 (19)	-16 (25)	-20 (31)	-24 (38)	-32 (51)	-40 (63)	-48 (76)	-56 (90)	-64 (100)	-80 (125)	-96 (150)	Temp.	Construction	Standard
3 braids	GlobalCore	722	*43*				28.0	28.0	28.0	28.0	28.0									-40/+100	4 spiral, wire	Exceeds ISO 18752-BC
		722TC	*43*				28.0	28.0	28.0	28.0	28.0									-40/+125	4 spiral, wire	Exceeds ISO 18752-CC
		722ST	*43*				28.0	28.0	28.0	28.0	28.0									-40/+125	4 spiral, wire	Exceeds ISO 18752-CC
	GlobalCore Compact Spiral	787	*(43, 48, 77)*		35.0		35.0	35.0	35.0	35.0	35.0	35.0	35.0							-40/+100	4/6 spiral, wire [1]	Exceeds ISO 18752-BC
		787TC	*(43, 48, 77)*		35.0		35.0	35.0	35.0	35.0	35.0	35.0	35.0							-40/+125	4/6 spiral, wire [1]	Exceeds ISO 18752-DC
		787ST	*(43, 48, 77)*		35.0		35.0	35.0	35.0	35.0	35.0	35.0	35.0							-40/+125	4/6 spiral, wire [1]	Exceeds ISO 18752-DC
		797	*(43, 48, 77)*		42.0		42.0	42.0	42.0	42.0	42.0	42.0	42.0							-40/+100	4/6 spiral, wire [1]	Exceeds ISO 18752-BC
		797TC	*(43, 48, 77)*		42.0		42.0	42.0	42.0	42.0	42.0	42.0	42.0							-40/+125	4/6 spiral, wire [1]	Exceeds ISO 18752-DC - ISO 18752-CC [2]
		797ST	*(43, 48, 77)*		42.0		42.0	42.0	42.0	42.0	42.0	42.0	42.0							-40/+125	4/6 spiral, wire [1]	Exceeds ISO 18752-DC - ISO 18752-CC [2]
	Standard	372	*70*				44.5	41.5	35.0	35.0	28.0									-40/+100	3 braids, wire	
	Low temperature	371LT	*70*				44.5	41.5	35.0	35.0	28.0									-50/+100	3 braids, wire	
	High abr. resist MSHA	372TC	*70*				44.5	41.5	35.0	35.0	28.0									-40/+100	3 braids, wire	
	Railway	372RH	*70*				44.5	41.5	35.0	35.0	28.0									-40/+100	3 braids, wire	
Parkrimp No-Skive	Standard	SX35	*73*							35.0	35.0	35.0								-40/+125	4 spiral, wire	ISO 3862 Type R13
		SX42	*(73, 77)*							42.0	42.0	42.0								-40/+125	4/6 spiral, wire [1]	ISO 3862 Type R15
		701	*70*				45.0	41.5	35.0	35.0	28.0									-40/+100	4 spiral, wire	Exceeds EN 856-4SP - ISO 3862-4SP
		731	*73*							42.0	38.0	32.0	29.0	25.0						-40/+100	4 spiral, wire	Exceeds EN 856-4SH - ISO 3862-4SH
	Phosphate Ester	774	⊕							28.0	28.0	21.0	17.5	17.5						-40/+80	4 spiral, wire	
		F42	*(70, ⊕)*				42.0			42.0	42.0	42.0								-40/+80	4/6 spiral, wire [1]	ISO 3862-R15 - SAE 100R15
	High abrasion resistance MSHA approved	SX35TC	*73*							35.0	35.0	35.0								-40/+125	4 spiral, wire	ISO 3862 Type R13
		SX42TC	*(73, 77)*							42.0	42.0	42.0								-40/+125	4/6 spiral, wire [1]	ISO 3862 Type R15
		701TC	70				45.0	41.5	35.0	35.0	28.0									-40/+100	4 spiral, wire	EN 856-4SP - ISO 3862-4SP
		722TC	*43*								21.0	17.5	17.5							-40/+125	4 spiral, wire	Exceeds ISO 18752-CC
		731TC	*73*							42.0	38.0	32.0	29.0	25.0						-40/+125	4 spiral, wire	ISO 3862-4SH - EN 856-4SH
	Extreme abr. resist.	722ST	⊕									21.0	17.5	17.5						-40/+125	4 spiral, wire	Exceeds ISO 18752-CC
	Low temperature	722LT	*43*									21.0	17.5							-57/+100	4 spiral, wire	SAE 100R12 – ISO 3862-1 Type R12– EN 856 Type R12
	Railway	797RH	*77*																	-40/+125	4/6 spiral, wire [1]	Exceeds SAE 100R15 - ISO 3862 R15 -ISO 18752-DC/CC
ParLock	Standard	H31	*(V5, V4)*		50.0		44.5	41.5	39.0	35.0	31.0									-40/+100	4 spiral, wire	Exceeds EN 856-4SP - ISO 3862-4SP
		H29	*V4*							43.0	40.0	35.0	31.0	28.0						-40/+100	4 spiral, wire	Exceeds EN 856-4SH - ISO 3862-4SH
		R35	*(V4, V6)*							35.0	35.0	35.0	35.0	35.0						-40/+125	4/6 spiral, wire [1]	EN 856-R13 - ISO 3862-R13 - SAE 100R13
		R42	*(V4, V6)*						42.0	42.0	42.0	42.0	42.0	42.0						-40/+125	4/6 spiral, wire [1]	ISO 3862-R15 - SAE 100R15
	High abrasion resistance MSHA approved	H31TC	*(V4, V6)*		50.0		44.5	41.5	39.0	35.0	31.0									-40/+100	4 spiral, wire	Exceeds EN 856-4SP - ISO 3862-4SP
		H29TC	*V4*							43.0	40.0	35.0	31.0	28.0						-40/+100	4 spiral, wire	Exceeds EN 856-4SH - ISO 3862-4SH
		R35TC	*(V4, V6)*							35.0	35.0	35.0	35.0	35.0	35.0					-40/+125	4/6 spiral, wire [1]	EN 856-R13 - ISO 3862-R13 - SAE 100R13
		RD35TC	*V6*											35.0	35.0	35.0				-20/+100	6 spiral, wire	Exceeds ISO 3862 Type R13
		RS35TC	*V6*													21.0*				-40/+125	6 spiral, wire	ISO 6907-D
		R42TC	*(V4, V6)*						42.0	42.0	42.0	42.0	42.0	42.0						-40/+125	4/6 spiral, wire [1]	ISO 3862-R15 - SAE 100R15
		R50TC	*(V4, V6)*						50.0	50.0	50.0	50.0								-40/+100	4/6 spiral, wire [1]	Exceeds ISO 3862-R15
		R56TC	*V5*			56.0	56.0													-40/+100	4 spiral, wire	Exceeds ISO 3862-R15
	Extreme abrasion resistance	H31ST	*(V5, V4)*		50.0		44.5	41.5	39.0	35.0	31.0									-40/+100	4 spiral, wire	Exceeds EN 856-4SP - ISO 3862-4SP
		H29ST	*V4*							43.0	40.0	35.0	31.0	28.0						-40/+100	4 spiral, wire	Exceeds EN 856-4SH - ISO 3862-4SH
		R42ST	*(V4, V6)*						42.0	42.0	42.0	42.0	42.0	42.0						-40/+125	4/6 spiral, wire [1]	ISO 3862-R15 - SAE 100R15
	Water-Blasting	BPK	*WB*		110.0		110.0	110.0		110.0	80.0									@	4/6 spiral, wire [1]	DIN EN 1829-2
	Firearmor BOP	FA35	*(V4, V6)*						35.0	35.0	35.0	35.0	35.0	35.0						-40/+100	4/6 spiral, wire [1]	

⊕: on request

* 35 MPa: Static applications according to ISO 6807-D
* 21 MPa: Dynamic hydraulic application design factor > 4:1

@ Continuous Service Temperature Range -10 °C up to +70 °C
Max. Service Temperature Range -40 °C up to +93 °C

in parentheses "( )": The fitting series depends on the hose ID (size);
1: The hose construction depends on the hose ID (size).
2: The standard depends on the hose ID (size).

More product information please find in catalogue CAT/4400.

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