

BUREAU
VERITAS

INDUSTRY & FACILITIES

FACTORY APPROVAL CERTIFICATE n° 28/X52/1/12225185/1001-02
Certificat d'approbation d'usine

Client's name and address**CST FLUIDOS S.L.**

C/ Resina, 14 Bloque A Nave 1 - 28021 Madrid (SPAIN)

Name and address of the factory**CST FLUIDOS S.L.**

C/ Resina, 14 Bloque A Nave 1 - 28021 Madrid (SPAIN)

Type(s) of product and component manufactured

Hydraulic hose assemblies according to following standards:

- Standard EN 853 (see ISO1463) for hose assembly type 1SN, 2SN, R1AT and R2AT
- Standard EN 854 (see ISO4079) for hose assembly type 2TE
- Standard EN 855 (see ISO394) for hose assembly type R7 and R8
- Standard EN 856 (see ISO3862) for hose assembly type 4SP, 4SH and R13
- Standard EN 857 (see ISO11237) for hose assembly type 1SC and 2SC

	Product code	Standard	Hose type	Temp. range	DN range (mm)	Working Pressure (bar)	Burst Pressure (bar)	Coupling type
Rubber covered hose assemblies reinforced with a single compact stranded wire	1SC 1/4	EN 857	1SC	-40°C to 100°C	6	225	900	According to Table 1 (shown below)
	1SC 5/16				8	215	860	
	1SC 3/8				10	180	720	
	1SC 1/2				12	160	640	
	1SC 5/8				16	130	520	
	1SC 3/4				20	105	420	
Rubber covered hose assemblies reinforced with two compact stranded wire	1SC 1				25	88	352	
	2SC 1/4	EN 857	2SC	-40°C to 100°C	6	450	1600	
	2SC 5/16				8	400	1400	
	2SC 3/8				10	350	1320	
	2SC 1/2				12	310	1100	
	2SC 5/8				16	280	1000	
2SC 3/4	20				280	860		
Rubber covered hose assemblies reinforced with a single wire braid	2SC 1				25	210	660	
	1SN 1/4	EN 853	1SN	-40°C to 100°C	6	225	900	
	1SN 5/16				8	215	860	
	1SN 3/8				10	180	720	
	1SN 1/2				12	160	640	
	1SN 5/8				16	130	520	
	1SN 3/4				20	105	420	
	1SN 1				25	88	352	
	1SN 1 1/4				32	63	252	
	1SN 1 1/2				40	50	200	
1SN 2	50				40	160		



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	Product code	Standard	Hose type	Temp. range	DN range (mm)	Working Pressure (bar)	Burst Pressure (bar)	Coupling type
Rubber covered hose assemblies reinforced with two wire braid	2SN 1/4	EN 853	2SN	-40°C to 100°C	6	400	1600	According to Table 1 (shown below)
	2SN 5/16				8	350	1400	
	2SN 3/8				10	330	1320	
	2SN 1/2				12	275	1100	
	2SN 5/8				16	250	1000	
	2SN 3/4				20	215	860	
	2SN 1				25	165	660	
	2SN 1 1/4				32	125	500	
	2SN 1 1/2				40	90	360	
	2SN 2				50	80	320	
Rubber covered hose assemblies for medium pressure reinforced with 4 spiral wire	4SP 1/4	EN 856	4SP	-40°C to 100°C	6	450	1800	According to Table 1 (shown below)
	4SP 3/8				10	445	1780	
	4SP 1/2				12	415	1660	
	4SP 5/8				16	350	1400	
	4SP 3/4				20	350	1400	
	4SP 1				25	280	1120	
	4SP 1 1/4				31	210	840	
	4SP 1 1/2				38	185	740	
	4SP 2				50	165	660	
Rubber covered hose assemblies for high pressure reinforced with 4 spiral wire	4SH 3/4	EN 856	4SH	-40°C to 100°C	20	420	1680	According to Table 2 (shown below)
	4SH 1				25	380	1520	
	4SH 1 1/4				32	350	1400	
	4SH 1 1/2				40	290	1160	
	4SH 2				50	250	1000	
Rubber covered hose assemblies for medium pressure-high temperature reinforced with 4 spiral wire	R12 3/4	EN 856	R12	-40°C to 121°C	12	276	1104	According to Table 3 (shown below)
	R12 1				25	276	1104	
	R12 1 1/4				32	207	828	
	R12 1 1/2				40	172	688	
	R12 2				50	172	688	



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Table 1

Cylindrical BSP male cone 60°AGR	JIC elbow 90° cone 74° DKJ-90	Metric elbow 45° cone 24° heavyseries DKOS-45	45° flange SAE 3000
Cylindrical BSPT male conic AGR-K	JIC elbow 45° cone 74° DKJ-45	Metric female inverted cone KOMATSU	Half-flange 3000 P.S.I.
BSP female cone 60° DRK	JIC elbow 90° cone 74° DKJ-90	Pipe socket BEL-BES	Full flange 3000 P.S.I.
BSP female cone 60° with O-ring DK-OR	JIC swivel male 90° compact	Pipe socket 90°	Straight flange SAE 6000
BSP female inverted cone (JIS)	JIC swivel male	Metric female cone 24° & 60° light series DKL-DKLL	90° or 45° flange SAE 6000
BSP female flat seat DKR-F	NPTF male cone 60° AGN	Metric elbow 90° cone 24° & 60° light series DKL-90	Half-flange 6000 P.S.I.
BSP elbow 90° cone 60° DKR-90	NPTF swivel male	Metric elbow 90° cone 24° & 60° light series DKL-45	Full flange 6000 P.S.I.
BSP elbow 90° cone 60° with O-ring DK-OR 90	NPTF female	Metric bolt	Female washer
BSP elbow 90° compact cone 60° DKR-90-K	Metric male cone 24° light series CEL	Male ORFS	Metric male (GAZ) - hose inches
BSP elbow 45° cone 60° DKR-45	Metric female cone 24° light series DKOL	Female ORFS	Metric female (GAZ) - hose inches
BSP elbow 45° cone 60° with O-ring DK-OR-45	Metric elbow 90° cone 24° lightseries DKOL-90	Elbow ORFS 90°	Stecko STN male
Spherical BSP RNR	Metric elbow 45° cone 24° light series DKOL-45	Elbow ORFS 45°	Hose joint
BSP bolt	Metric male cone 24° heavy series CES	Straight flange SAE 3000	90° flange SAE 3000
JIC male cone 74° AGJ	JIC female cone 74° DKJ	Metric female cone 24° heavy series DKOS	Metric elbow 90° cone 24° heavyseries DKOS-90

Table 2

BSP cylindrical male cone 60°AGR	JIC elbow 45° cone 74° DKJ-45	ORFS elbow 45°	45° flange SAE 6000 (code 62)
BSP female cone 60° DKR	Metric male cone 24° heavy series CES/CEL	NPTF male cone 60° AGN	Straight flange 9000 P.S.I. CATERPILLAR
BSP elbow 90° cone 60° DKR-90	Metric female cone 24° heavy series DKOS / light series DKOL	Straight flange SAE 3000	90° flange 9000 P.S.I. CATERPILLAR
BSP elbow 45° cone 60° DKR-45	Metric elbow 90° cone 24° heavy series DKOS-90	90° flange SAE 3000	45° flange 9000 P.S.I. CATERPILLAR
JIC male cone 74° AGJ	Metric elbow 45° cone 24° heavyseries DKOS-45	45° flange SAE 3000	HANSA-FLEX male with flange
JIC female cone 74° DKJ	ORFS female	Straight flange SAE 6000	HANSA-FLEX female with flange
JIC elbow 90° cone 74° DKJ-90	ORFS elbow 90°	90° flange SAE 6000	HANSA-FLEX male 90° with flange





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Table 3

BSP cylindrical male cone 60° AGR	JIC female cone 74° DKJ	Metric elbow 90° cone 24° DKO-90	EATON/HANSA-FLEX 45° flange SAE 3000 & SAE 6000
BSP female cone 60° DKR	JIC elbow 90° cone 74° DKJ-90	Metric elbow 45° cone 24° DKO-45	EATON/HANSA-FLEX male
BSP elbow 90° cone 60° DKR-90	JIC elbow 90° cone 74° DKJ-45	NPTF male AGN	EATON/HANSA-FLEX male elbow 90°
BSP elbow 45° cone 60° DKR-45	Metric male cone 24° CES/CEL	Straight flange SAE 3000 (code 61) & SAE 6000 (code 62)	EATON/HANSA-FLEX female
JIC male cone 74° AGJ	Metric female cone 24° DKO	90° flange SAE 3000 (code 61) & SAE 6000 (code 62)	EATON/HANSA-FLEX 45° flange SAE 3000 & SAE 6000



Monthly production

Approximately 1250 hose assemblies per month (only hose assemblies)



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After examination of the following documents:

- *Certificate ISO 9001 2015 LRQA, cert nr. 10413933*
- *Factory Audit Report n° 28/X52/1/6182627/1001-01 dated 17th Jan 2021*
- *Expiry dates control table (Cuadro de control caducidad): IT-06-06 Rev.1 (Annex A)*
- *Inspection and Test Plan (ITP) / Control range checklist (Gama de control): IT-06-04 Rev.9 (Annex F)*

Document example: 97800005/05642364/12/03/2021

- *Certificate type 3.1 acc. EN 10204 (including pressure test): IT-06-04 Rev.9 (Annex C)*

Document example: GCO 05743446 / 97800057

Scope: Certification based on compliance with the family of standards ISO17165 Hydraulic fluid power - Hose assemblies, specifically, the manufacturer of hose assemblies CST FLUIDOS complies with the sections 9, 10, 12 and 13 of ISO17165-1: 2007 Dimensions and requirements, and Sections 6 and 9 of ISO17165-2: 2018 Practices for hydraulic hose assemblies according to the audit of the examined documentation.




The undersigned, Inspector to Bureau Veritas, certifies that the above factory meets the applicable requirements for the production of the product and associated components referenced above.

This approval remains valid as long as no significant changes are made to the audited facility, its production rate and its quality system. These conditions are assessed during each inspection of series.

This approval is an integral and indissociable part of the certification process managed by Bureau Veritas as defined in BV procedure GM SI 210.

This certificate is valid for 3 years, until January 16^h, 2025

(Subject to satisfactory yearly audits performed by Bureau Veritas)

Inspected by:		Checked by:	
Name: Sergio BORRÁS		Name: Javier IRIGOYEN	
Signature: 		Signature: 	
Date of issue: 17th January 2022			
Inspection centre: BVIT Alcobendas - Madrid (SPAIN)			
Distribution: <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> <input type="checkbox"/>			