



PSP-No.	DTI
5780	CT

WEG-0122-33367121	Rev. 00	1	4
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Number of Modification/ Action
1028-SF-L

Tag number

See TAG list on page 1

SF10200008
SF10200009
SF10200010
SF10200011



 Westinghouse		Check flap			
Project number EE-15-3002		PSP-No. 5780	DTI CT	Document identification number: WEG-0122-33367121 Rev. 00	
Project Title Krško SFP Alternative Cooling Design				2	4
Power plant / unit KRK - KRSKO 1		Number of Modification/ Action 1028-SF-L		Tag number See TAG list on page 1	
General Data					
Valve model (funct.)	non return valve	Related specification		ASME Sect. III, ND	
Valve type (constr.)	check flap	Additional specification		*2	
Manufacturer - type	*1	Component class / performance level			SC3
Supplier	*1	Load level		*6	
Building	*3	Seismic class			Category I
Floor/level	*3	Test Group		*7	
Room number	*3	Test category			-
Related cover sheet	not applicable	Nominal width DN		*4	6"
Related P&ID	WEG-0180-05648804	Nominal pressure PN			300
Related drawing	*1	Nominal width DN Exit		*4	6"
Related system	SFP Spray System	Nominal pressure PN Exit			300
Safety Requirement	Yes	Actuator model			-
Safety devices	*1	Type of drive			-
Design Data					
Design Pressure	232	psi (g)	Design against External impact	*8	
Design temperature	212	°F	Design against Internal impact	*9	
Ambient temperature min.	61	°F	Design against LOCA		No
Ambient temperature max.	212		Design against cutoff failure		-
Design mass flow	82.8	kg/s	Proof: Stability		Yes
Test Pressure	290	psi (g)	Proof: Integrity		Yes
Test Temperature	RT	°F	Proof: Functionality	*10	
Operating Data					
Operating pressure (gauge)	232	psi (g)	Function at Δ p / basic position		3.3-8 bar / closed
Operating temperature min.	33.1	°F	Pressure below / above cones	*11	psi (g)
Operating temperature max.	95		Safety valve opening pressure		psi (g)
Operating mass flow	38.7	kg/s	Pressure (gauge) supply of compressed air for actuator		psi (g)
Max. differential pressure Δp	232	psi (g)			
Technical Data					
Weight excluding actuator	*1	kg	Dimensions (L/H/W)		*1
Weight including actuator	*1	kg	in in in		
Valve stiffness	-		Seat hard facing available	*1	
Material Data					
Housing	*12		Spindle seal	*13	
Housing coating internal	-		Obturator	*14	
Housing coating external	-		Shutoff element / armor plate	*1	
Vessel head	*12		Seat hard facing	*15	
Gasket ring (body/cover)	*1		Weld-on / shoed butt weld ends		-
Spindle	*1		Actuator housing		-
Spindle nut	-				

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Power plant / unit KRK - KRSKO 1		Number of Modification/ Action 1028-SF-L			Tag number See TAG list on page 1		
Medium Data							
Medium	*16			Dynamic viscosity	1	mPa*s	
Activity	-	Bq/m3		Density	994	kg/m³	
Solids content	-	%		Hazard class	-		
Steam content	-	%		Water hazard class	-		
Conductivity	-	S/m		Additive	-		
Test medium	Water			Resistance value (Zeta-Value)	-		
Acceptance							
Acceptance test according to		*2 Sec. 6.0					
Accessory							
Additional accessories		*1		Housing rupture protection	*1		
Construction Data							
Connection inlet	*17			Permitted leakage to the outside	*20	mbar*U/s	
Connection outlet	*17			Seating tightness	*21		
Installation position	*18			Middle seat diameter / seat width	*1	in	
Suspension	-			Spindle diameter/pitch/number of gears	*1		
Spindle seal / shaft seal	*19			Insulation type	-		
Spindle stroke	*1	in		Insulation thickness	-	in	
Gland leak off	-			Coating inside	-	µm	
Locking	No			Coating on the outside	-	µm	
Limit switch	No			Safety devices-version	-		
Actuator							
Manufacturer	-			Voltage	-	V	
Manufacturer - type	-			Frequency	-	Hz	
Connection type	-			Nominal power	-	hp	
Installation position (motor shaft)	-			Nominal current	-	A	
Output shaft version	-			Starting current	-	A	
Adjustment range OPEN min. /max.	-	-	N*m	Start-up suppression OPEN	-	%	
Adjustment range CLOSE min. /max.	-	-	N*m	Start-up suppression CLOSE	-	%	
Set torque OPEN	-		N*m	Revolutions per stroke (stroke)	-	in	
Set torque CLOSE	-		N*m	Revolutions per stroke (rotation angle)	-	°	
Shut off OPEN	-			Torque tolerance	-	%	
Shut off CLOSE	-			Actuating time	-	s	
Shutdown failure moment OPEN	-		N*m	Speed of drive	-	1/min	
Shutdown failure moment CLOSE	-		N*m	Remote drive parts available	-		
Cut-off delay	-		ms	Slip clutch	-		
Self-locking	-						
Gearing							
Manufacturer	-			Permitted torque (input)	-	N*m	
Manufacturer - type	-			Permitted torque (output)	-	N*m	
Gear ratio (i)	-			Remote drive angle	-	°	
Transmission efficiency	-			Remote drive (construction)	-		



Check flap

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Reference to calculations and applicable codes and/or standards

Annotations
<ul style="list-style-type: none">*1 - To be provided by supplier /*2 - WEG-0122-60669672 valve specification /*3 - 00008, AB, room ??, el. 115.55 / 00009-11, FHB, room 13, el. 100.3 m /*4 - Connected Piping: Material ASTM A312 Grade TP304, Dimensions ASME B36.19, Sch. 40S, 168.3 x 7.11 mm (6.625 x 0.280 in) /*5 - Sections 5.1.1 - 5.1.10 shall be considered as applicable /*6 - acc. to *2 App. C /*7 - Active (acc. to *2 Section 3.4.3.5) /*8 - Yes (see *2 Sec. 3.4.3) /*9 - Yes (see *2 Sec. 3.3) /*10 - Yes (during/after earthquake) /*11 - 3.3-8.0 / 0 bar /*12 - SS, *2 Sec. 5.2 /*13 - *1 consider *2 Sec. 3.2.11; 5.1.4 b. /*14 - SS *1 /*15 - *2 Sec. 5.2.1.3 /*16 - WF-2/WF-3 (acc. to *2 App. D) /*17 - Flanged (see *2 Sec. 4.2.1) /*18 - Horizontal or vertical /*19 - *1 see *2 Sec. 5.1.4 b. /*20 - *2 Sec. 6.3.1.1 /*21 - *2 Sec. 6.3.1.2 /

Creator				Reviewed WEG			Release / Certification mark
Rev.	Prepared	Review QA	Reason for revision				WEG
00	EEC F. Steiner 22.09.2015	ZQ E. Mauermann 25.09.2015	Revision object for workflow-based revis ioning	EEC T. Schuler 22.09.2015			EEP M. Postleb 28.09.2015