



Westinghouse

Feeding and ventilation armature

Project number EE-15-3002	PSP-No. 5780	DTI CT	Document identification number:		
Project Title Krško SFP Alternative Cooling Design	WEG-0122-05301631		Rev. 00	1	3
Power plant / unit KRK - KRSKO 1	Number of Modification/ Action 1028-SF-L		Tag number .SF.10100009		

General Data			
Valve model (funct.)	venting valve	Related specification	ASME Sect. III, ND
Valve type (constr.)	vent valve	Additional specification	
Manufacturer - type	*1	Component class / performance level	SC3
Supplier	*1	Load level	*6 -
Building	FHB	Seismic class	Category I
Floor/level	115,7 m	Test Group	
Room number	01	Test category	-
Related cover sheet	not applicable	Nominal width DN	*3 1"
Related P&ID	WEG- 0180-23754883	Nominal pressure PN	150
Related drawing	*1	Nominal width DN Exit	*3 1"
Related system	SFP Alternate Cooling System	Nominal pressure PN Exit	150
Safety Requirement	Yes	Actuator model	-
Safety devices	*1	Type of drive	-

Design Data			
Design Pressure	145	psi (g)	Design against External impact
Design temperature	212	°F	Design against Internal impact
Ambient temperature min.	61	°F	Design against LOCA
Ambient temperature max.	212		Design against cutoff failure
Design mass flow	66.7	kg/s	Proof: Stability
Test Pressure	181.3	psi (g)	Proof: Integrity
Test Temperature	RT	°F	Proof: Functionality

Operating Data			
Operating pressure (gauge)	101.3	psi (g)	Function at Δp / basic position
Operating temperature min.	33.1	°F	Pressure below / above cones
Operating temperature max.	176		Safety valve opening pressure
Operating mass flow	*4	kg/s	Pressure (gauge) supply of compressed air for actuator
Max. differential pressure Δp	14.5	psi (g)	

Technical Data			
Weight excluding actuator		kg	Dimensions (L/H/W)
Weight including actuator	*1	kg	in in in
Valve stiffness	-		Seat hard facing available

Material Data			
Housing		Spindle seal	-
Housing coating internal	-	Obturator	-
Housing coating external	-	Shutoff element / armor plate	-
Vessel head	*12	Seat hard facing	-
Gasket ring (body/cover)	*1	Weld-on / shoed butt weld ends	-
Spindle	-	Actuator housing	-
Spindle nut	-		



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Power plant / unit KRK - KRSKO 1		Number of Modification/ Action 1028-SF-L			Tag number .SF.10100009		
Medium Data							
Medium	*15		Dynamic viscosity	1(Water)/0.017 (Air) mPa*s			
Activity	-	Bq/m3	Density	972 kg/m³			
Solids content	-	%	Hazard class	-			
Steam content	-	%	Water hazard class	-			
Conductivity	-	S/m	Additive	Boric Acid			
Test medium	Water		Resistance value (Zeta-Value)	-			
Acceptance							
Acceptance test according to		*2 Sec. 6.0					
Accessory							
Additional accessories			Housing rupture protection	*1			
Construction Data							
Connection inlet	*16		Permitted leakage to the outside	mbar*1/s			
Connection outlet	*16		Seating tightness	*19			
Installation position	*17		Middle seat diameter / seat width	*1	in		
Suspension	-		Spindle diameter/pitch/number of gears	*1			
Spindle seal / shaft seal	-		Insulation type	-			
Spindle stroke	-	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)	-			

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Reference to calculations and applicable codes and/or standards

Annotations

- *1 - To be provided by supplier /
- *2 - WEG-0122-60669672 valve specification /
- *3 - Connected Piping: Material ASTM A312 Grade TP304, Dimensions ASME B36.19, Sch. 40S, 33.4 x 3.38 mm (1.315 x 0.133 in) /
- *4 - Dependend of mass flow to fill up SFP Alternate Cooling System /
- *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 3.4.3.4) /
- *8 - Yes (see *2 Sec. 3.4.3) /
- *9 - Yes (see *2 Sec. 3.3) /
- *10 - Yes (after earthquake) /
- *11 - 0.1 / 0 bar /
- *12 - SS, *2 Sec. 5.2 /
- *13 - SS *1 /
- *14 - *2 Sec. 5.2.1.3 /
- *15 - WF-1/WF-2/WF-3 (acc. to *2 App. D) + Air /
- *16 - Flanged (see *2 Sec. 4.2.1) /
- *17 - Horizontal or vertical /
- *18 - *2 Sec. 6.3.1.1 /
- *19 - *2 Sec. 6.3.1.2 /

Material Data: Float gauge: SS

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