

 South African Nuclear Energy Corporation SOC Limited	Valve List for Gas Supply System																Doc. No.	Extract from ENS-OWPVR-LST-24008 R3		
																	Rev. No.	3		
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SUBSYSTEM 1600 - GAS SUPPLY SYSTEM {P&ID [10]}																						
1	2	3	4		5		6				7						8	9		10	11	
# Item No.:	Valve Size	Valve Type	Design Conditions		Operating Conditions		Process Connection				Materials of Construction						Shared valve (Y/N) (Note 2)	Comment	Quantity	ID		
			Temp. [°C]	Press. [kPa(g)]	Temp. [°C]	Press. [kPa(g)]	Size	Type	Flange Spec.	Flange Rating	Body	Trim	Packing or Seal	Seat	Plug, Ball or Disc	Bonnet or Cap						
Manuel Control Valves (Ball, Globe and Gate Valves)																						
1	15	Ball valve	371	760	Ambient	600	15	RF	ASME B16.5	CLASS 150	316 SS	316 SS	SUPPLIER TO ADVISE	RTFE	BALL	SUPPLIER TO ADVISE	N	Valve to be cleaned and packaged for Oxygen service.	1	SB1- 15 - 150 - Oxy		
2	15	Ball valve	371	760	Ambient	600	15	RF	ASME B16.5	CLASS 150	316 SS	316 SS	SUPPLIER TO ADVISE	RTFE	BALL	SUPPLIER TO ADVISE	N	-	5	SB2 - 15 - 150		
3	25	Ball valve	371	760	Ambient	600	25	RF	ASME B16.5	CLASS 150	316 SS	316 SS	SUPPLIER TO ADVISE	RTFE	BALL	SUPPLIER TO ADVISE	N	Valve to be cleaned and packaged for Oxygen service.	2	SB3 - 25 - 150 - Qxy		
4	15	Globe valve	371	760	Ambient	600	15	RF	ASME B16.5	CLASS 150	SS (ASTM A182-F316/A351-CF8M)	316 SS, HARDFACE SEAT, API 602 TRIM #12	CORROSION-INHIBITED, DIE-FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	-	DISC	SS	N	Valve to be cleaned and packaged for Oxygen service.	1	SG1 - 15 - 150 - OXY		
5	15	Globe valve	371	760	Ambient	600	15	RF	ASME B16.5	CLASS 150	SS (ASTM A182-F316/A351-CF8M)	316 SS, HARDFACE SEAT, API 602 TRIM #12	CORROSION-INHIBITED, DIE-FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	-	DISC	SS	N	Valve to be cleaned and packaged for Oxygen service.	2	SG2 - 15 - 150		
6	15	Non-return valve	371	760	Ambient	500	15	RF	ASME B16.5	CLASS 150	SS (ASTM A182-F316/316L)	316 SS, HARDFACE SEAT, API 602 TRIM #12	API 602	-	PISTON	SS	N	(HORIZONTAL with COVER UP).	6	SU1 - 15 - 150		
7	15	Ball valve	38	24820	Ambient	600-20000	15	RF	ASME B16.5	CLASS 1500	316 SS	316 SS	SUPPLIER TO ADVISE	RTFE	BALL	SUPPLIER TO ADVISE	N	-	6	SB4 - 15 - 1500		
8	15	Globe valve	93	20685	Ambient	600-20000	15	RF	ASME B16.5	CLASS 1500	SS (ASTM A182-F316/A351-CF8M)	316 SS, HARDFACE SEAT, API 602 TRIM #12	CORROSION-INHIBITED, DIE-FORMED FLEXIBLE GRAPHITE with ANTI-EXTRUSION RINGS	SUPPLIER TO ADVISE	DISC	SS	N	-	4	SG3 - 15 - 1500		
9	15	Non-return valve	38	24820	Ambient	600-20000	15	RF	ASME B16.5	CLASS 1500	SS (ASTM A182-F316/316L)	316 SS, HARDFACE SEAT, API 602 TRIM #12	API 602	-	PISTON	SS	N	(HORIZONTAL with COVER UP); Valve to be cleaned and packaged for Oxygen service.	2	SU2 - 15 - 1500 - OXY		
10	15	Non-return valve	38	24820	Ambient	600-20000	15	RF	ASME B16.5	CLASS 1500	SS (ASTM A182-F316/316L)	316 SS, HARDFACE SEAT, API 602 TRIM #12	API 602	-	PISTON	SS	N	(HORIZONTAL with COVER UP)	8	SU3 - 15 - 1500		
Pressure Regulator																						
1	2	3	4		5		6				7						8	9		10	11	
# Item No.:	Valve Size	Valve Type	Design Conditions		Operating Conditions		Process Connection				Materials of Construction						Shared valve (Y/N) (Note 2)	Comment	Quantity	ID		
			Temp. [°C]	Press. [kPa(g)]	Temp. [°C]	Press. [kPa(g)]	Size	Type	Flange Spec.	Flange Rating	Body	Trim	Packing or Seal	Seat	Plug, Ball or Disc	Bonnet or Cap						
1	15	Pressure Regulator	38	24820	Ambient	20000/600	15	THRD (Female)	ASME B1.20.1 or B16.5	CLASS 3000 (THRD) OR CLASS 1500 (FLNG)	316 SS	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	N	SEE ATTACHED SPECIFICATION SHEET ENS-OWPVR-SPE-25033	1	PR1		

Total Number of Valves	38
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