

Design Temperature.....	-0°C to 85°C
Hydraulically Actuated HIPPS Valves Installation.....	In series
Valve	Fire safe certificate
Stroke Speed	Adjustable by needle valve
restrictor	
Life Expectancy	25 years
Protective Coating	Yes

Standards :

- IEC 61511: Functional safety - Safety instrumented systems for the process industry sector
- IEC 61508: functional safety standards and is applicable to all industries.
- GS_EP_SAF_260_EN (TOTAL Standard- Design of High Integrity Protection Systems (HIPS))
- GS_EP_TEC_260_EN (TOTAL Standard- HIPS Design, Implementation and Life Cycle)
- ISO 5211: Specifies requirements for the attachment of part-turn actuators.
- ISO 12490: Mechanical integrity and sizing of actuators and mounting kits for pipeline valves
- API 6A fail-safe gate valves
- API 6A linear hydraulic spring-return actuators
- API 6D quarter-turn ball valves_ API 6D quarter-turn or spring-return actuators
- API 6FA - Fire Safe



DATA SHEET FOR HIPPS VALVES

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REV.		NO	DESCRIPTION				DATA					
		1	GENERAL				2 No. Valve					
		2					Tag Number					
		3					P&ID Number					
		4					Service					
		5					Line Number					
		6					Line Size in.		Line Schedule			
		7					Piping Class		Pipe Insulation			
		8	Specification Doc. Number		Hazardous Area Classification		ZONE 1, GAS GROUP IIB, T3					
		9	Fluid		Fluid State		Hydrocarbon		GAS / VAPOUR / LIQUID(MIXED)			
		10					Units		Normal			
		11	Operating Pressure				barg		30.6			
		12	Operating Temperature				°C		30.6			
		13	Design Pressure				barg		124.1			
		14	Design Temperature		Min / Max		°C		85			
		15	Max. Shut-off DP (Process)				barg		152			
		16	Max. Shut-off DP (Actuator Sizing)				barg		152			
		17	Valve Type		Type Of Body		BALL VALVE,TRUNNION		TOP ENTRY CONSTRUCTION(VTC)			
		18	Valve Code		Valve Specification							
		19	Body Size in.		Fire Safe		8 "		CERTIFIED TO API 6FA			
		20	End Valve Connection Type & Rating				RTJ & 900#					
D06		21	Port Type		Port Size in.		FULL BORE					
		22	Body Material				ASTM A216 WCB(VTC)					
		23	Ball Material				ASTM A182 F51 + Tungsten Carbide on contact surface(VTC)					
		24	Trim Material				ASTM A182 F51 (VTC)					
D06		25	Stem Material				ASTM A182 F51 (VTC)					
		26	Seat Material		Tightness		PIEEK(VTC)		TSO (ISO 5208 RATE A)			
		27	Seat Type				SOFT SEAT					
		28	Bolt Material				ASTM A 193 GR. B7M/2HIM					
		29	Bonnet / Adapter Fixing				BOLTED					
		30	Manufacturer		Model Number		-		-			
		31	Type				HYDRAULIC SINGLE ACTING SPRING RETURN					
		32	Stem Position		Mounting Orientation		VERTICAL		TOP MOUNTED			
		33	Power Medium Fail Position				FAIL CLOSE					
		34	SDV Closing Time		sec.		< =3 SECS					
		35	Max. Torque / Thrust		Schematic Diagram		VTA		REFER TO HIPPS SPECIFICATION			
		36	Speed Control		Handwheel		YES		NO			
D06		37	Control Fluid Type		Control Fluid Pressure		HYDRAULIC OIL		Min. : 100 barg Max. : 200 barg			
D06		38	Fire Blanket		Explosion Proof Certificate.		YES		Yes, Required (ATEX/IEC + QAN/QAR)			
		39	Manufacturer		Model Number		-		-			
		40	Local Panel		Box Material		IP Rating		SS 316 L			
		41			Components Material		Tubes / Fitting Material		SS 316(VTC)			
		42			Mounting Type		Local Stroke Command		Free Stand Mounted(VTC)			
		43			LIMIT SWITCHES		Specification		Required, PROXIMITY, DPDT(VTC),1.0 A @ 24 VDC			
		44			Partial Stroking Test Facility		Box Dimensions		Yes, Required			
		45	Regulator		Regulator		Set Pressure		VTA			
		46			Filter		Gauge		Yes, Required			
		47			Manufacturer		Man. Model No.		-			
		48	Pressure Sensore				Yes, Required					
		49	Electrical Connections		Nameplate Material		ISO M20 x 1.5		316L SS			
		50	SIL Level		Hydro. Test		Min. SIL 3 (Note 4)		as per API-6D / API-598			
		51	Special Service				H ₂ S COMPLY WITH NACE MR0175 FOR WETTED PARTS					
		52	Fire Safe		ANSI / Leakage Class		Certified to API 6FA		TSO (ANSI CLASS)			