

For fast flow loading and unloading of trailers with compressed H2 hydrogen, Elaflex has expanded its product range to include Ball Valves up to DN 25 (1"), Cylinder Valves up to DN 13 (½"), Manifolds for mobile pressure storage units (swap bodies or trailers) and Quick Couplers (½") to be used instead of thread connections. This H2 equipment allows very high flow rates, suitable for a settlement pressure of 350 bar (35.0 MPa) or Ball Valves up to 380 bar (38,0 MPa).



Specifications for 900 Series TPED Valve System

- Easy to service, kits readily available
- Anti blow-out stem
- With PI marking to TPED/Type approved to EN ISO 23826
- NWP 385 bar
- Temperature range -40°C up to +65°C
- NPT threads to ASME B1.20.1 or BSPP threads to ISO228
- SAE threads (Straight Thread O-Ring "BOSS") to SAE J1926 or ORFS threads to SAE J1453
- Lockout system to prevent valve from accidental opening
- Customised connection on request

BV 900 Ball Valve

Ball Valve with Lockout System to prevent accidental valve opening

- Tight tolerances
- Sophisticated 'Two-Piece' & 'Floating Ball' design to enable long service life
- Port sizes from 1/4" to 1"
- Service kits available

Optional with pneumatically controlled Actuator with Ball Valve



TH 900 Cylinder Valve



- Clear identification of 'open/closed' position
- Available with 25E or UNF 18 adjustable adapter

TM 900 Trailer Manifold



- High Flow TPED Pl marked load/unload manifold for trailers
- Two inlet ports
- Pressure gauge inlet

Specifications for Hydrogen HC404-H2 Quick Coupler

- Specially designed for hydrogen use
- All 316 stainless steel construction against corrosion and wear
- Temperature range -40°C up to +85°C and PN 450 bar
- Conform to PED 2014/68/EU
- High flow 1/2" quick connect/disconnect coupling, alternative to screw-on connections (laboratory style)
- Correct connection indicator
- Anti-leak spring loaded poppets in male and female part
- Hardened segment connection style increase gripping surface area to significantly reduce ear on male coupling
- Coupled/uncoupled at atmospheric pressure (0 MPa gauge) only





Dust Caps Availabe for male/ female quick coupler

Part Number Breakdown

Ball Valves	BV 90	4	-6 S	4	TCDW- GO	000		
		企		全				
		Port Size	Port Type Body Size		Operation Type			
					Handle	Actuator		
		2 = 1/4"	N = NPT	4 = if port size is 2 to 4	G000 = Grey [Standard]	0124 = with N/C Actuator 012M = with N/O Actuator		
		4 = ½"	S = SAE	6 = if port size is 8	1000 = Red	(sizes 1/4" and 1/2")		
		8 = 1"	B = BSPP		0101 = Mounting brackets	0148 = with N/C Actuator		
			Others (ie. ORFS) on request		H000 = Lockout kit	014P = with N/O Actuator (sizes 1")		

Cylinder Valves	TH 90	4	-6	·6 3		B 8 21		O G000	
				 企					
		Port Size F		Туре	-	Cylinder Head Connection		Handle	
		4 = 1/2" 3 :		2" NPT female	8 = 25E adjustable adaptor		daptor	G000 = Grey [Standard]	
			2 = ¾"-16 SAE female		9 = UN	9 = UNF 18 adjustable adaptor 100		1000 = Red	
			Othe	ers (ie. ORFS) on request				H000 = Lockout kit	

Trailer Manifold	TM 90	8	-6	S 6TC	6TCDW- G000		
			-	 企	 全		
		Port Size	Port Type		Handle		
		8 = 1"	S = 15/16"-12 SAE female		G000 = Grey [Standard]		
			Others (i	e. ORFS) on request	1000 = Red		
					H000 = Lockout kit		

Quick Couplers	HC404 - H	D	XSP-	MH	HC404 - H	S	XSP-	F
Male					Female			
		Threads (G)		Coupling Type		Threads (G)	Coupling Type
		D = 1 5/16"-12 Male SAE		M = Male	1	D = 1 5/16"-12 Male SAE		F = Female
		S = ¾"-16 Fer	male SAE		-	S = ¾"-16 Fe	male SAE	
		N = ½"-NPT F	emale			N = ½"- Fem	ale NPT]