

VERSATILE. ROBUST. EASY TO USE.

The CALDER HYDROPRO™ Hydraulic Flange Seals (HFS) can efficiently clamp and seal a variety of flanged valves with unsurpassed quality and flexibility for your valve testing needs.



VERSATILE

Mobile flange sealing enables the user to test valves that have multiple flanges as well as valves that aren't straight, like elbow valves, 90's and T's.

Pair with the HYDROPRO™ Universal Flanged Valve Tester and HYDROPRO™ Console for sealing both ends of a valve and performing bi-directional testing.

Adjustable clamp arms are manually adjustable to suit various flange thicknesses and diameters, ensuring that each HFS is capable of clamping to a range of valve sizes.

Select from 9 models depending on clamping capabilities.

Pivoting seal plate enables the seal plate to

pivot and swivel during clamping for better sealing surface contact with the valve flange.

ROBUST

Every component in the HFS pressure circuit is OEM-certified to the maximum specified testing pressure of the system for increased quality, durability and safety.

CE certified and available world-wide! All CALDER products are available for sale world-wide, including in the European Union and other locations where CE certification is required.

ISO 9001 certified manufacturing ensures all CALDER products are manufactured to the highest quality standards.

Standard 2-year warranty is the longest in the industry! We're confident in our quality, and we back it up! And – ask us how to extend your warranty out to 5 years. . .

EASY TO USE

Hydraulic ram quickly seals the flanged valves enabling the operator to conduct a test without using blind flanges.

Engineered to automatically seal on the valve flange when clamping pressure is applied.

Extensive operating manual contains easy to follow tips and includes step-by-step set up instructions for various valve testing operations.

WHY CHOOSE CALDER!



- Ⓒ The modular, highly configurable and field-upgradable design of the new CALDER tester platform is the most flexible and cost-effective way to manage all your valve testing requirements. It can grow and evolve your business
- Ⓒ The new CALDER test systems are designed to be more accurate and precise than other comparable products
- Ⓒ Unique to the valve testing industry, every CALDER component is OEM certified to the maximum pressure specification of the system, for enhanced safety, quality and durability
- Ⓒ CALDER offers users the ability to simultaneously test multiple valves with one system
- Ⓒ Unmatched in the industry, all CALDER systems are backed by a 2 year warranty
- Ⓒ CALDER has global reach and local support through CLIMAX's vast world-wide network
- Ⓒ CALDER offers a complete line of Valve Repair Machines for lapping, grinding and specialized valve machining operations
- Ⓒ CALDER offers a full portfolio of Test Barriers and Hydraulic Seal Clamps among other products
- Ⓒ CALDER offers SMARTEST™ intelligent data acquisition, analysis and control systems for use with our testers
- Ⓒ Custom turn-key system design services from the most experienced engineers
- and valve test experts in the business
- Ⓒ Outrageously good customer service. We are available 24/7!
- Ⓒ End-to-End Solutions; from products, consulting, engineering, custom design, training, start-up, after-sale service, spare parts, repair, and rentals, CALDER offers unmatched value in our industry
- Ⓒ All CALDER products are CE certified and manufactured in our ISO 9001 certified factory
- Ⓒ All CALDER products are proudly made in the USA



SPECIFICATIONS

HFS-2							
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	ANSI Class					
		150	300	600	900	1500	2500
		Maximum Test Pressure PSI (Bar)					
	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)
	½ (12.7)	√	√	√	√	√	√
	¾ (19.1)	√	√	√	√	√	√
	1 (25.4)	√	√	√	√	√	
	1 ¼ (31.8)	√	√	√			
	1 ½ (38.1)	√	√	√			
	2 (50.8)	√					
Specs	Hydraulic Clamping: 10 tons (9.1 tonnes)						
	Approximate dimensions: 7.7 L x 6.7 W x 14.5 H inch (196 L x 170 W x 368 H mm)						
	Approximate weight: machine 26 lbs (11.8 kgs) / shipped 50 lbs (22.7 kgs)						

HFS-4							
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	ANSI Class					
		150	300	600	900	1500	2500
		Maximum Test Pressure PSI (Bar)					
	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)
	2 (50.8)	√	√	√	√	√	
	3 (76.2)	√	√	√	√		
	4 (101.6)	√	√				
Specs	Hydraulic Clamping: 25 tons (22.7 tonnes)						
	Approximate dimensions: 12.6 L x 10.9 W x 17.5 H inch (320 L x 277 W x 445 H mm)						
	Approximate weight: machine 68 lbs (30.8 kgs) / shipped weight: 85 lbs (38.6 kgs)						

HFS-6							
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	ANSI Class					
		150	300	600	900	1500	2500
		Maximum Test Pressure PSI (Bar)					
	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)
	2 (50.8)						√
	3 (76.2)				√	√	
	4 (101.6)	√	√	√	√		
	5 (127)	√	√	√			
	6 (152.4)	√	√	√			
Specs	Hydraulic Clamping: 55 tons (49.9 tonnes)						
	Approximate dimensions: 15.4 L x 17.7 W x 22.4 H inch (391 L x 450 W x 567 H mm)						
	Approximate weight: machine 155 lbs (70.3 kgs) / shipped 200 lbs (90.7 kgs)						

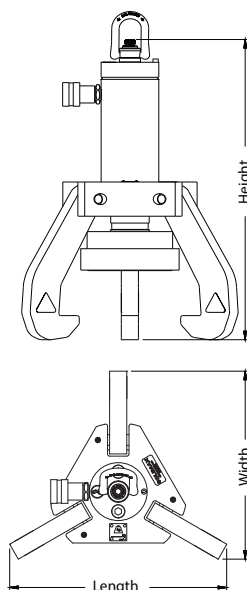
HFS-10							
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	ANSI Class					
		150	300	600	900	1500	2500
		Maximum Test Pressure PSI (Bar)					
	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)
	3 (76.2)						√
	4 (101.6)					√	
	5 (127)			√	√	√	
	6 (152.4)		√	√	√		
	8 (203.2)	√	√	√			
	10 (254)	√	√				
Specs	Hydraulic Clamping: 100 tons (90.7 tonnes)						
	Approximate dimensions: 19.9 L x 22.9 W x 27 H inch (506 L x 582 W x 686 H mm)						
	Approximate weight: machine 342 lbs (155 kgs) / shipped 400 lbs (181 kgs)						

SPECIFICATIONS



HFS-14							HFS-16							
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	ANSI Class						Valve Size (nominal)	ANSI Class					
		150	300	600	900	1500	2500		150	300	600	900	1500	2500
	Maximum Test Pressure PSI (Bar)						Maximum Test Pressure PSI (Bar)							
	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)	Inch (mm)	450 PSI (31 Bar)	1125 PSI (76 Bar)	2250 PSI (155 Bar)	3375 PSI (233 Bar)	5625 PSI (388 Bar)	9375 PSI (646 Bar)
	8 (203.2)			√				8 (203.2)				√		
	10 (254)		√					10 (254)		√				
	12 (304.8)	√	√					12 (304.8)	√	√				
	14 (355.6)	√						14 (355.6)	√	√				
	16 (406.4)							16 (406.4)	√					
Specs	Hydraulic Clamping: 100 tons (90.7 tonnes)						Hydraulic Clamping: 150 tons (136.0 tonnes)							
	Approximate dimensions: 25.1 L x 25.1 W x 26.3 H inch (638 L x 638 W x 668 H mm)						Approximate dimensions: 26 L x 28.6 W x 32 H inch (660 L x 726 W x 813 H mm)							
	Approximate weight: machine 493 lbs (223 kgs) / shipped 550 lbs (249 kgs)						Approximate weight: machine 879 lbs (399 kgs) / shipped 1,000 lbs (454 kgs)							

Dimensional Drawing (see specs for model specific dimensions)



HFS-API-100T			
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	API Pressure Class	
		5M	10M
	Maximum Test Pressure PSI (Bar)		
	Inch (mm)	10000 PSI (689 Bar)	15000 PSI (1034 Bar)
	2 1/16 (52 mm)		√
	2 3/16 (65 mm)		
	4 1/8 (105 mm)		
	5 1/8 (130 mm)		
	7 1/16 (179 mm)		
Specs	Hydraulic Clamping: 100 tons (90.7 tonnes)		
	Approximate dimensions: 19.9 L x 22.9 W x 27 H (505 L x 582 W x 686 H)		
	Approximate weight: machine 500 lbs (227 kgs) / shipped 650 lbs (295 kgs)		

HFS-API-150T			
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	API Pressure Class	
		5M	10M
	Maximum Test Pressure PSI (Bar)		
	Inch (mm)	10000 PSI (689 Bar)	15000 PSI (1034 Bar)
	2 1/16 (52 mm)		√
	2 3/16 (65 mm)		√
	4 1/8 (105 mm)		
	5 1/8 (130 mm)		
	7 1/16 (179 mm)		
Specs	Hydraulic Clamping: 150 tons (136.0 tonnes)		
	Approximate dimensions: 26.0 in L x 28.6 in W x 32 in H (660 L x 726 W x 813 H)		
	Approximate weight: machine 879 lbs (399 kgs) / shipped 1000 lbs (454 kgs)		

HFS-API-400T			
Valve Coverage (Flat / Raised Face Flanges)	Valve Size (nominal)	API Pressure Class	
		5M	10M
	Maximum Test Pressure PSI (Bar)		
	Inch (mm)	10000 PSI (689 Bar)	15000 PSI (1034 Bar)
	2 1/16 (52 mm)		
	2 3/16 (65 mm)		
	4 1/8 (105 mm)		√
	5 1/8 (130 mm)	√	
	7 1/16 (179 mm)	√	
Specs	Hydraulic Clamping: 400 tons (362.9 tonnes)		
	Approximate dimensions: 34 L x 36 W x 54 H (864 L x 914 W x 1372 H)		
	Approximate weight: machine 2000 lbs (907 kgs) / shipped 2500 lbs (1133 kgs)		

All dimensions should be considered reference. Contact your Calder Representative for precision dimensions. Specifications are subject to change without notice. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.

HFS CONFIGURATIONS

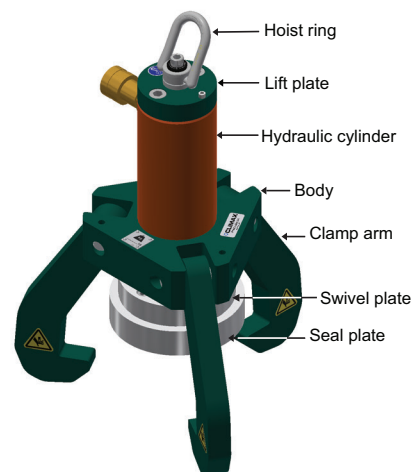
The HydroPro™ Hydraulic Flange Seals, HFS comes standard with 10,000 PSI (679 bar) rated hydraulic clamping components and plumbing, adjustable clamp arms, nickel plated steel seal plate, lifting hoist rings, hydraulic clamping chart and operators manual.

HFS with O-ring flange seal plate

Model	PN
HFS-2	88524
HFS-4	88525
HFS-6	88527
HFS-10	88528
HFS-14	88529
HFS-16	88530

HFS with ring groove seal plate

Model	PN
HFS-API-100T	89492
HFS-API-400T	89493
HFS-API-400T	89725



CALDER VALVE INSTITUTE AND CARE PROGRAM

CALDER VALVE INSTITUTE™

CALDER has been teaching the fundamentals and fine points of valve testing operation for as long as we've been inventing and building the systems. CALDER VALVE INSTITUTE™ offers:

- Training Institutes in Portland OR, Houston TX, Manchester UK, Düren Germany, and Dubai UAE, among others
- Safety training
- Machine set up and operation
- Technical tips and tools to improve operational performance and efficiency
- Hands on training and valve testing skill development

Whether it's a regularly scheduled course at one of our CALDER Institutes, or a custom curriculum conducted at your facility, your valve test operators will benefit from courses developed by the most experienced and respected professionals in the business.

CALDER CARE PROGRAM

Preventative maintenance and service package includes:

- Parts Replacement Guarantee – All parts replaced for the term of the package
- Technical Assistance by Phone – A CALDER CARE Hotline for 24/7 US-based expert advice from repair professionals
- On-Site Preventive Maintenance – Yearly PM visit by a Certified CALDER Service Technician
- Extended Warranty Coverage – CALDER is the only company in our industry with a standard 2 year warranty and offering extended warranty programs out to 5 years!



Call CALDER for:

RENTALS

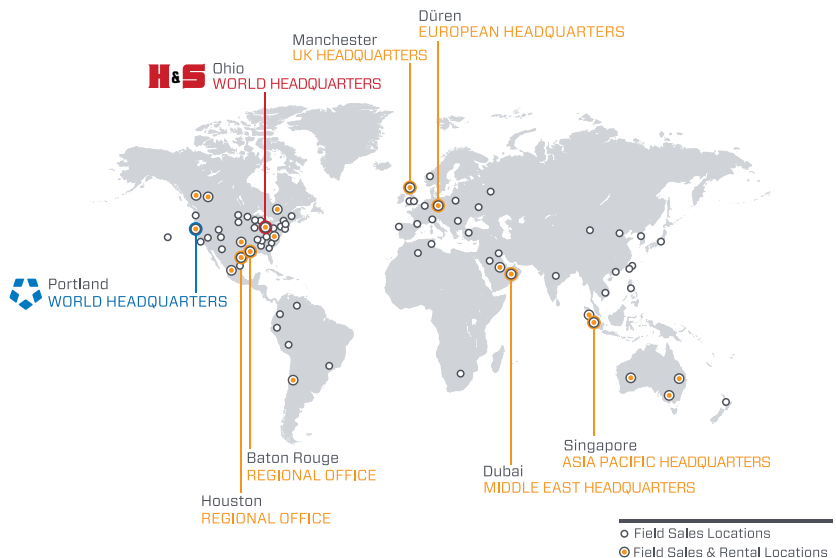
On selected models. With 20+ worldwide rental depot locations, you are never far away from a CALDER system.

ON-SITE TRAINING

If you need training or on-site consultation, we're famous for it!

CUSTOM PROJECTS

Custom turn-key system design services from the most experienced engineers and valve test experts in the business!



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