



**tifco industries**

**HydraTest™**

**HYDRAULIC TESTING SOLUTIONS**

**TiFFLO™**

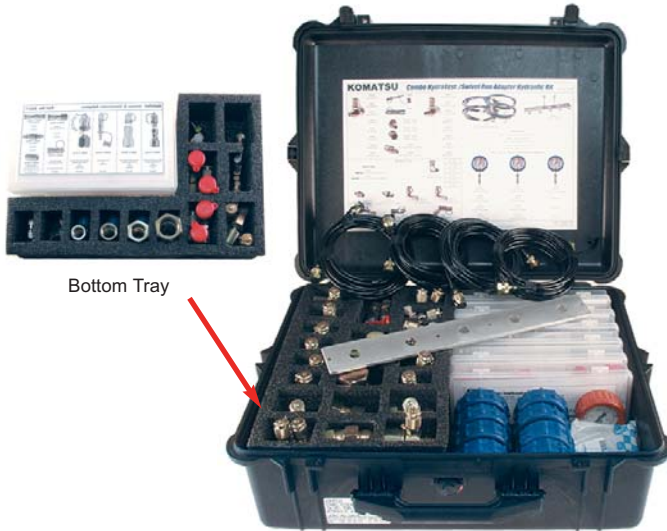


SERVING AMERICAN INDUSTRY & GOVERNMENT SINCE 1961

# No One Does HYDRAULIC PRESSURE TESTING LIKE TIFCO INDUSTRIES

- **HydraTest™** is a unique **SYSTEM** that has universal application and is therefore capable of testing more than 92 different brands of Mobile Hydraulic Equipment in a single kit.

This means no matter where you are or what you are required to maintain or diagnose, Technicians have the test tools available to keep equipment operating. All this while saving valuable space on your service vehicles and the cost of purchasing and maintaining several OEM or single brand/style test fitting kits.



- **ORGANIZATION** of all test tools gives **HydraTest™** kits an advantage by keeping them neat, clean and available.

This means Technicians and Service & Parts Department Personnel have the means to assure that test tools are where you need them, when you need them.

- **IDENTIFICATION** by picture and part number of both test tools and kit compartments allows for complete accountability and positive reordering .

This means your Technicians always know exactly where to store the test tools they use, to charge them on job tickets or reorder the tool if needed.



## **Features** of TIFCO's **HydraTest™ System** include:

- Acceptance from OEM's such as Komatsu, John Deere, Case, Volvo, Kawasaki, Hitachi
- Innovative test tools available exclusively from TIFCO
- TIFCO's extensive inventory means immediate shipment of kits and replacement parts
- TIFCO's Product Warranty and Product Liability Insurance
- Service performed by local Inventory Maintenance Specialist
- Vendor consolidation utilizing TIFCO's extensive MRO product line

## **Benefits** of TIFCO's **HydraTest™ System** include:

- Performs hydraulic pressure tests on more than 92 different brands of Mobile Hydraulic Equipment
- **HydraTest™** Universal application saves you the expense and space of several OEM or single brand/style test fitting kits
- Equipped to perform all 4 types of hydraulic pressure tests
- Pictures and part numbers on labeled compartments keep all test tools neat, clean and organized
- Individually identified test tools for absolute accountability
- Available with all brands or OEM specific test tools

Compare the value of TIFCO's **HydraTest™ System** versus the cost of not having test tools Technicians need to keep your Customers' down time to a minimum. TIFCO's **HydraTest™ System** gives you the value of having **"THE RIGHT PART, IN THE RIGHT PLACE, AT THE RIGHT TIME"** while saving you money and helping Technicians be more productive.

**HydraTest™ & TrFlo™** Kits that are covered under **GSA# GS-24F-0013N** are identified in this brochure.

# ANY HYDRAULIC PRESSURE TEST, ON ANY BRAND - ANY PLACE, AT ANY TIME

TIFCO's **HydraTest™ System** has been designed to perform all 4 basic hydraulic pressure tests; Screw-On/Snap-On, Existing Port, In-Line Swivel Run Tee, Plug & Abandon (deadhead) on more than 92 different brands of Mobile Hydraulic Equipment. This is possible by the exclusive combination of test tools available in **HydraTest™** kits.

## CONVERSION ADAPTERS (SCREW-ON/SNAP-ON TEST)

- Converts pre-existing screw-on or snap-on test fittings from a wide variety of equipment to one universal connection



## PORT ADAPTERS (EXISTING PORT TEST)

- Changes a female port to a universal test connection. Available in permanent and reusable, SAE and Metric



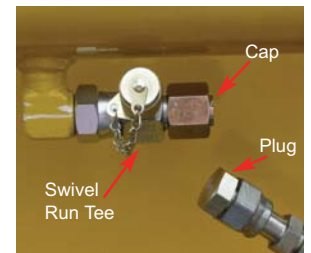
## SWIVEL RUN TEES WITH TEST FITTINGS (IN-LINE TEST)

- Available in various connection types (JIC, ORFS, etc) with 360° port positioning in compact designs and replaces the unsafe, time consuming & expensive process of stacking, welding or modifying adapters



## CAPS & PLUGS (PLUG & ABANDON TEST)

- Used in combination with Swivel Run Tees on certain hydraulic pressure tests. Available in all sizes and connection types as Swivel Run Tees



OEM's, Equipment Dealer/Distributors, Rental Companies, Independent Technicians and Fleet Owners have all come to rely on TIFCO's **HydraTest™ SYSTEM** whether the need is to purchase new kits or reorder replacement test tools. Test tools in **HydraTest™** kits, many of which are exclusive to TIFCO, combined with the **ORGANIZATION** of pictured, part numbered compartments and **IDENTIFICATION** of each individual test tool are the reasons we know **"NO ONE DOES HYDRAULIC PRESSURE TESTING LIKE TIFCO INDUSTRIES"**.

# TIFCO'S EXCLUSIVE UNIVERSAL HydraTest™ SYSTEM AT WORK

The micro-test hose connected to the gauge is the same type micro-test hose shown on page 5 as "Style A". The female end of this micro-test hose screws onto the test fitting marked "A" on the test bar below and a pressure reading is taken (See picture below marked Screw-On Style).

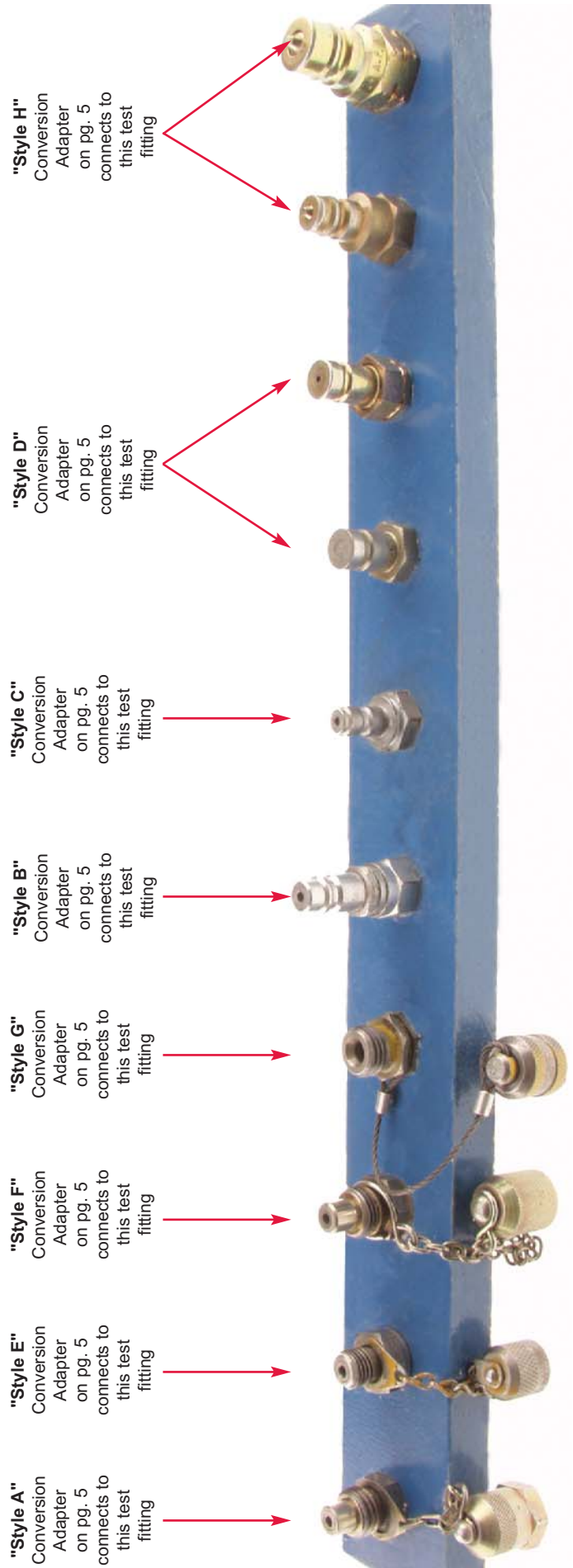
The remaining screw-on and snap-on test fittings on the test bar, are connected to the micro-test hose by screwing the male end of the corresponding conversion adapters shown on page 5 into the female end of the micro-test hose then connecting to the screw-on or snap-on conversion adapter to the test fitting on the equipment to take a pressure reading (See pictures below).



**Screw-On Styles  
A, E, F & G**



**Snap-On Styles  
B, C, D & H**



The above test bar represents both screw-on and snap-on styles of test fittings found on different brands of mobile hydraulic equipment.

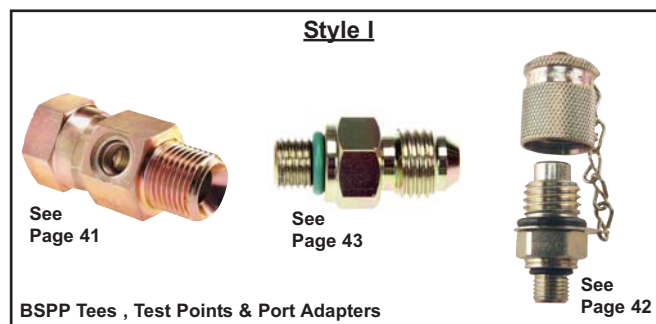
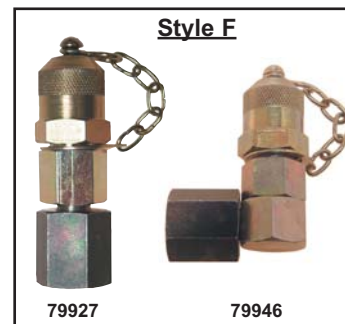
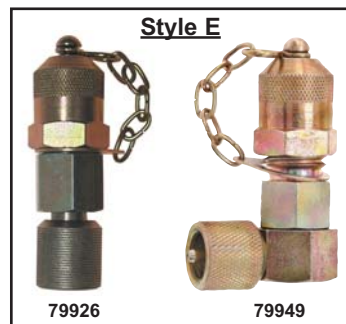
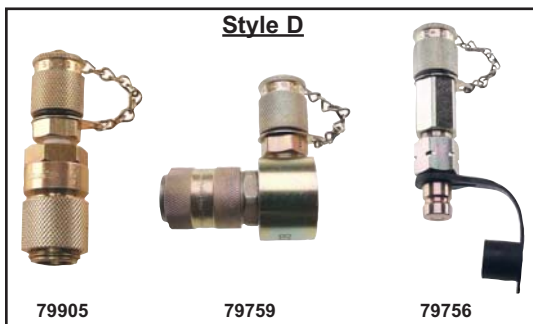
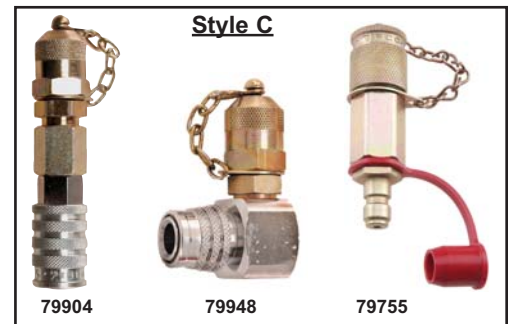
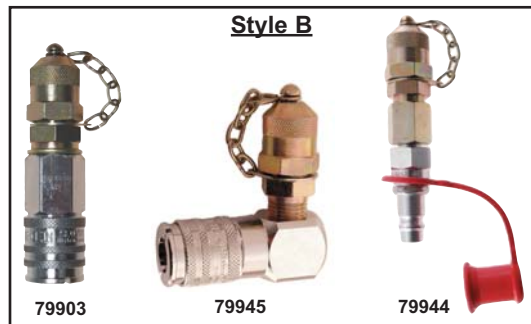
## CONVERSION ADAPTERS

- Eliminates the need for brand specific test equipment
- Converts pre-existing test fittings from a wide variety of equipment to universal connection



Brands of Equipment	Picture Part No.	Brands of Equipment	Picture Part No.	Brands of Equipment	Picture Part No.	Brands of Equipment	Picture Part No.	Brands of Equipment	Picture Part No.
Allianz/Madvac	A	Delmag	A	Hitachi	B	Marklift	H	Soilmec	A
Ammann	A	Demag	A	Hyundai	A	McElroy	D	Takaechi	I
Bandit Industries	D	*Ditch Witch	D	I.M.T.	A	Mi-Jack	D	Tamrock	A
Barko	D,I	Doosan	I	Ingersol-Rand	A	Military Forward Repair System	J	Terex	A,D,E
Bauer	A	Dresser	D	J.C.B.	G	Morbark	D	Traverse Lift	D
Blaw-Knox	A	Dressta	D	J.L.G.	A,H	Moxy	A	Upright	A
Bobcat	D	Dynapac	A	John Deere	D	New Holland	D	*Vibromax	A
*Bomag	A	Euclid	A	John Deere (Liebherr)	A	Omni Quip	D	Vogele	A
C.B.I.	E	Ford	D	Kawasaki	E	Poclain	F	Volvo	C
Casagrande	A	*Fuchs	A	Klemm	A	Sakai	A	Watson	D
Case	A,D	Galion	D	Kobelco	I	Samsung	C,F	Westmont	B
Case (88 series)	F	Gehl	A,D	Komatsu	B	Samsung-Volvo	F	Wirtgen	A
Caterpillar	D	Genie	D	Krone	A	Scat Trak	D	Xtreme	A
Cedar Rapids	A	Gomaco	I	Kubota	I	Schaeff	A	Yanmar	I
Champion	D	Gradall	A	*Liebherr	A	Schwing	E	Yutani	I
Clark/Michigan	H	Grove (USA)	D	Link-Belt	D	*Sennebogen	A	*Zettlemeyer	A
Condor	I	*Grove-GMK (Krupp)	A	Lull	D	Sky Jack	D,H		
Crushtek	A	*Hamm	A	ManiTowoc	D	Skytrak	D		
Daewoo	E,I	Hiab	C	Marini	A	Snorkel	D,I		

\*Could also require TIFCO's DIN HydraTest™ Kit (Part No. 79605)



## COMBO HydraTest™ KIT

- GSA# GS-24F-0013N
- Designed to perform all four types of pressure tests through #16
- Ideal size for large field service truck or shop
- Packed in case #91590 with foam #91596
- Seals for port adapters included

Part No.	Description
79601	Combo HydraTest™ with Analog Gauges
79631	Combo HydraTest™ with Digital Gauges (2 Ea. 79523)

Bottom Tray



### TEST HOSE & COUPLERS

QTY	PART #	DESCRIPTION
2	79900	Micro Test Hose Assembly
1	79938	Female Hose Union
2	79934	Male Hose Union
*	79939	Air Purge Valve

### PRESSURE GAUGES

QTY	PART #	DESCRIPTION
2	79901	1000PSI/0-70 Bar
2	79902	10,000PSI/0-700 Bar
*	79917	3000 PSI/0-200 Bar
*	79918	5000 PSI/0-400 Bar
*	79919	60 KG Cm <sup>2</sup> /0-850 PSI Dry
*	79920	600 KG Cm <sup>2</sup> /0-8500 PSI
*	79921	400 KG Cm <sup>2</sup> /0-5500 PSI
*	79922	60 KG Cm <sup>2</sup> /0-850 PSI
*	79923	25 KG Cm <sup>2</sup> /0-350 PSI
*	79924	10 KG Cm <sup>2</sup> /0-140 PSI

### PLUGS

QTY	PART #	DESCRIPTION
1	79705	#4 (1/4") SAE 37° JIC
1	79706	#5 (5/16") SAE 37° JIC
1	79707	#6 (3/8") SAE 37° JIC
1	79708	#8 (1/2") SAE 37° JIC
1	79709	#10 (5/8") SAE 37° JIC
1	79710	#12 (3/4") SAE 37° JIC
1	79711	#16 (1") SAE 37° JIC
1	79685	#4 (1/4") ORFS
1	79686	#6 (3/8") ORFS
1	79687	#8 (1/2") ORFS
1	79688	#10 (5/8") ORFS
1	79689	#12 (3/4") ORFS
1	79690	#16 (1") ORFS
1	90787	#4 (1/4") BSPP
1	90788	#6 (3/8") BSPP
1	90789	#8 (1/2") BSPP
1	90790	#10 (5/8") BSPP
1	90791	#12 (3/4") BSPP
1	90792	#16 (1") BSPP
1	90587	#4 (1/4") JIS 30° BSPP (Kobelco)
1	90588	#6 (3/8") JIS 30° BSPP (Kobelco)
1	90589	#8 (1/2") JIS 30° BSPP (Kobelco)
1	90585	#2 (M10) JIS 30° (Komatsu)
1	90593	#4 (M14) JIS 30° (Komatsu)
1	90594	#6 (M18) JIS 30° (Komatsu)
1	90595	#8 (M22) JIS 30° (Komatsu)

### CAPS

QTY	PART #	DESCRIPTION
1	79693	#4 (1/4") SAE 37° JIC
1	79695	#6 (3/8") SAE 37° JIC
1	79694	#5 (5/16") SAE 37° JIC
1	79696	#8 (1/2") SAE 37° JIC
1	79697	#10 (5/8") SAE 37° JIC
1	79698	#12 (3/4") SAE 37° JIC
1	79699	#16 (1") SAE 37° JIC
1	79678	#4 (1/4") ORFS
1	79679	#6 (3/8") ORFS
1	79680	#8 (1/2") ORFS
1	79681	#10 (5/8") ORFS
1	79682	#12 (3/4") ORFS
1	79683	#16 (1") ORFS
1	90738	#4 (1/4") BSPP
1	90739	#6 (3/8") BSPP
1	90740	#8 (1/2") BSPP
1	90741	#10 (5/8") BSPP
1	90742	#12 (3/4") BSPP
1	90743	#16 (1") BSPP
1	90590	#4 (1/4") JIS 30° BSPP (Kobelco)
1	90591	#6 (3/8") JIS 30° BSPP (Kobelco)
1	90592	#8 (1/2") JIS 30° BSPP (Kobelco)
1	90586	#2 (M10) JIS 30° (Komatsu)
1	90596	#4 (M14) JIS 30° (Komatsu)
1	90597	#6 (M18) JIS 30° (Komatsu)
1	90598	#8 (M22) JIS 30° (Komatsu)

### SWIVEL RUN TEES

QTY	PART #	DESCRIPTION
1	79883	#2(M10) JIS 30° (Komatsu)
1	79950	#4 (1/4") SAE 37° JIC
1	79951	#5 (5/16") SAE 37° JIC
1	79952	#6 (3/8") SAE 37° JIC
1	79953	#8 (1/2") SAE 37° JIC
1	79954	#10 (5/8") SAE 37° JIC
1	79955	#12 (3/4") SAE 37° JIC
1	79956	#16 (1") SAE 37° JIC
1	79960	#4 (1/4") ORFS
1	79962	#6 (3/8") ORFS
1	79963	#8 (1/2") ORFS
1	79964	#10(5/8") ORFS
1	79965	#12 (3/4") ORFS
1	79966	#16 (1") ORFS
1	79970	#4 (1/4") BSPP
1	79972	#6 (3/8") BSPP
1	79973	#8 (1/2") BSPP
1	79974	#10 (5/8") BSPP
1	79975	#12 (3/4") BSPP
1	79976	#16 (1") BSPP
1	79980	#4 (M14) 30° JIS (Komatsu)
1	79982	#6 (M18) 30° JIS (Komatsu)
1	79984	#8 (M22) 30° JIS (Komatsu)
*	79863	#12 (M30) 30° JIS (Komatsu) HP
1	79990	#4 (1/4") 30° JIS -BSPP (Kobelco)
1	79992	#6 (3/8") 30° JIS -BSPP (Kobelco)
1	79994	#8 (1/2") 30° JIS -BSPP (Kobelco)
1	79858	#12 (3/4) 30° JIS -BSPP (Kobelco)

### TEST POINTS

QTY	PART #	DESCRIPTION
2	79925	Hydraulic Adapter M/F Elbow
1	79940	#4 (1/4") Female ORFS
1	79908	M10 - 1.0 Test Point
1	79752	#6 (3/8") FJIC x M16-2.0
2	79906	#4 (1/4") FJIC x M16-2.0
*	79935	#2 (1/8") NPT X M16-2.0
*	79907	M8-1.0 x M16-2.0
*	79909	M10-1.25 x M16-2.0
*	79911	M14-1.5 x M16-2.0
*	79913	#2 (1/8") MBSPT x M16-2.0
*	79915	#2 (1/8") MBSPP x M16-2.0
*	79931	#4 (1/4") NPT x M16-2.0
*	79908	M10-1.0 x M16-2.0
*	79910	M12-1.5 x M16-2.0
*	79912	M16-1.5 x M16-2.0
*	79914	#4 (1/4") MBSPT x M16-2.0
*	79929	#4 (1/4-19) BSPP x M16-2.0
1	79747	45° Elbow
1	79760	M10-1.0 Female x M16-2.0

### CONVERSION ADAPTERS

QTY	PART #	DESCRIPTION
2	79945	Conversion Adapter
1	79926	Schwing & Kawasaki
1	79949	90° Elbow Schwing & Kawasaki
1	79927	Samsung
1	79946	90° Swivel Elbow
1	79903	Komatsu & Hitachi
1	79904	Volvo
1	79905	Caterpillar & John Deere
1	79928	JCB
1	79936	SkyJack, J.L.G.
1	79958	Clark/Michigan
1	79944	Male Union
1	79937	Female Conversion Adapter
1	79948	90° Conversion Adapter - Volvo
1	79755	Male Union - Volvo
1	79756	Male Union - Caterpillar & John Deere
1	79759	90° Conversion Adapter - Cat. & John Deere

### TEST NIPPLES

QTY	PART #	DESCRIPTION
1	48988	Oil/Pressure Sampling
*	48999	7/16-20
*	48993	1/4-19 BSPP

### PORT ADAPTERS #4 MJIC X MALE PORT

QTY	PART #	DESCRIPTION
*	79941	M18-1.5 x #4 FBSPP Special Adapter
1	77310	#2 (1/8") SAE Straight Thread
1	77311	#3 (3/16") SAE Straight Thread
1	77312	#4 (1/4") SAE Straight Thread
1	77313	#5 (5/16") SAE Straight Thread
1	77314	#6 (3/8") SAE Straight Thread
1	77315	#8 (1/2") SAE Straight Thread
1	77316	#10 (5/8") SAE Straight Thread
1	77317	#12 (3/4") SAE Straight Thread
1	79701	#2 (1/8") NPT
2	79702	#4 (1/4") NPT
1	79703	#6 (3/8") NPT
1	79704	#8 (1/2") NPT
1	79692	#12 (3/4") NPT x #4 (1/4") NPT Bushing
1	79713	45° JIC Swivel Elbow
1	79714	90° JIC Swivel Elbow
1	90401	M8-1.0
1	90360	M10-1.0
1	90402	M10-1.25
1	90403	M12-1.5
1	90404	M14-1.5
1	90405	M16-1.5
1	90316	#2 (1/8") BSPT
1	90317	#4 (1/4") BSPT
1	90337	#2 (1/8") BSPP
1	90338	#4 (1/4") BSPP
1	90339	#6 (3/8") BSPP
2	79746	Sampling Adapter

### KOMATSU ADAPTERS

QTY	PART #	DESCRIPTION
*	90408	Extension Adapters
*	90409	Extension Adapters

### KOMATSU 90° SWIVEL ELBOWS

QTY	PART #	DESCRIPTION
*	81784	#2(M10)
*	81785	#4(M14)
*	81786	#6(M18)
*	81787	#8(M22)
*	81788	#10(M24)
*	81789	#12(M30)

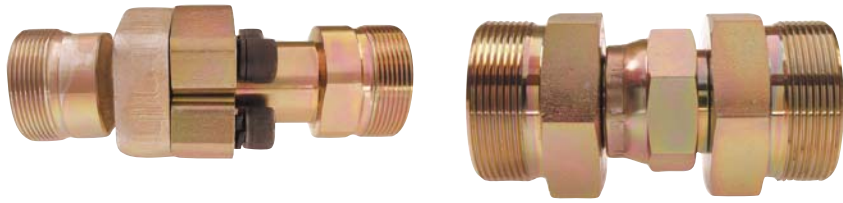
### HANDY PAKS

QTY	PART #	DESCRIPTION
1	86610	HydraTest Conv. Adapter
1	86611	HydraTest Unions & Conv. Adapter
1	86612	Caps & Plugs #4 - #10
1	86613	Caps & Plugs #12 - #16
1	86600	Komatsu & Kobelco Caps & Plugs
1	86606	Metric Port Adapter
1	86604	JIC x MORB Adapter
*	86607	Test Point Adapter

Handy Paks contents are included in listings.

\* LABEL ONLY

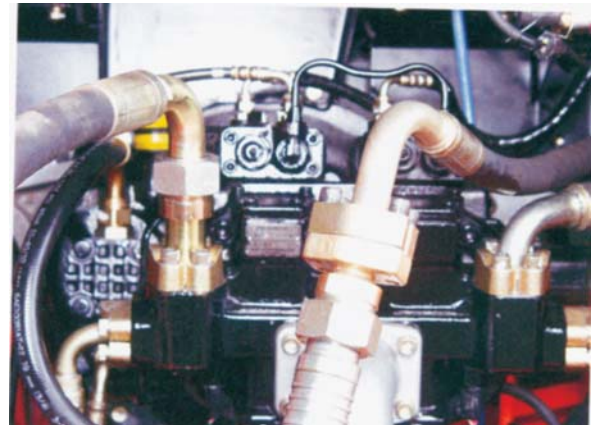
Flow testing was another area Customers expressed the desire to have universal connectivity. **TifFlo™** Flow Meter Systems include the same universal concept as the **HydraTest™** Universal Diagnostic Pressure Test Kit.



- These unique, one piece **TifFlo™** Conversion Adapters allow your Flow Meter to be installed within 30 minutes.



- **TifFlo™** Flow Meter System features 10' long hydraulic hose assemblies with a straight connector on one end and a 90° connector on the other end which provides easier access to equipment connections. When used with **TifFlo™** inlet and outlet adapters and conversion adapters, the **TifFlo™** Flow Meter System gives universal connectivity that will fit over 50 different brands.



- The unique design of the entire **TifFlo™** System (flow meter, adapter, and hose) allows you to work at maximum flow and pressure ratings (200GPM flow and 6000 PSI working pressure).



Tifco's quality product line is backed by Tifco's 100% SATISFACTION GUARANTEE. We stand behind the quality of our products with \$10 MILLION DOLLAR PRODUCT LIABILITY INSURANCE POLICY.

**TifFlo™** Flow Meter Systems are available through  
**GSA # GS-24F-0013N.**

### TiFlo™ DIGITAL FLOW METER KIT

- GSA# GS-24F-0013N
- High pressure hose assemblies sold separately

Part No.	Description
81995	Digital Flow Meter Kit

QTY	PART #	DESCRIPTION
1	91600	Protector Case w/Lid Foam
1	91591	200 Gallon Flow Meter Foam Insert
1	81981	200 Gallon Digital Flow Meter
2	81796	Inlet & Outlet Adapters
2	90287	DKO Blanking Caps
2	90024	Tube Nuts



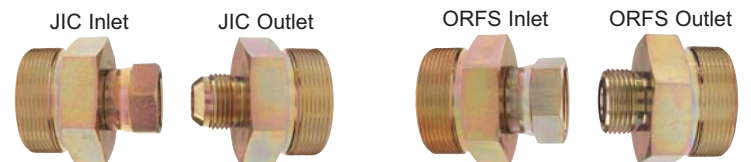
### TiFlo™ FLOW METER ADAPTER KIT

#### AMERICAN SAE 37° JIC & ORFS

- GSA# GS-24F-0013N
- 87530 BSSPP to JIC Adapter Tray Assortment available (*sold separately*)

Part No.	Description
81994	American SAE 37° JIC & ORFS

QTY	PART #	DESCRIPTION
1	91590	Protector Case w/Lid Foam
1	91595	TIF FLO American Foam Insert
1	81948	#12 (3/4") Female JIC Inlet Adapter
1	81949	#16 (1") Female JIC Inlet Adapter
1	81950	#20 (1 1/4") Female JIC Inlet Adapter
1	81951	#24 (1 1/2") Female JIC Inlet Adapter
1	81952	#32 (2") Female JIC Inlet Adapter
1	81953	#12 (3/4") Male JIC Outlet Adapter
1	81954	#16 (1") Male JIC Outlet Adapter
1	81955	#20 (1 1/4") Male JIC Outlet Adapter
1	81956	#24 (1 1/2") Male JIC Outlet Adapter
1	81957	#32 (2") Male JIC Outlet Adapter
1	81958	#12 (3/4") Female ORFS Inlet Adapter
1	81959	#16 (1") Female ORFS Inlet Adapter
1	81960	#20 (1 1/4") Female ORFS Inlet Adapter
1	81961	#24 (1 1/2") Female ORFS Inlet Adapter
1	81962	#12 (3/4") Male ORFS Outlet Adapter
1	81963	#16 (1") Male ORFS Outlet Adapter
1	81964	#20 (1 1/4") Male ORFS Outlet Adapter
1	81965	#24 (1 1/2") Male ORFS Outlet Adapter
2	90287	DKO Blanking Caps
2	90024	Tube Nuts
1	86616	Replacement O-Ring Seal Kit



**TIFLO™ FLOW METER ADAPTER KIT**

**CODE 61 - 3000 PSI**

- GSA# GS-24F-0013N

Part No.	Description
81992	Code 61 Flow Meter Adapter Kit

QTY	PART #	DESCRIPTION
1	91590	Protector Case w/Lid Foam
1	91593	TIF FLO Code 61 Foam Insert
1	81900	#8 (1/2") Inlet Flange
1	81901	#12 (3/4") Inlet Flange
1	81902	#16 (1") Inlet Flange
1	81903	#20 (1 1/4") Inlet Flange
1	81904	#24 (1 1/2") Inlet Flange
1	81905	#32 (2") Inlet Flange
1	81906	#8 (1/2") Outlet Companion
1	81907	#12 (3/4") Outlet Companion
1	81908	#16 (1") Outlet Companion
1	81909	#20 (1 1/4") Outlet Companion
1	81910	#24 (1 1/2") Outlet Companion
1	81911	#32 (2") Outlet Companion
1	82400	#8 (1/2") Flange Kit
1	82401	#12 (3/4") Flange Kit
1	82402	#16 (1") Flange Kit
1	82403	#20 (1 1/4") Flange Kit
1	82404	#24 (1 1/2") Flange Kit
1	82405	#32 (2") Flange Kit
2	90287	DKO Blanking Caps
2	90024	Tube Nuts
1	86615	Replacement O-Ring Seal Kit

**TIFLO™ FLOW METER ADAPTER KIT**

**CODE 62 SPLIT FLANGE - 6000 PSI**

- GSA# GS-24F-0013N

Part No.	Description
81993	Code 62 Flow Meter Adapter Kit

QTY	PART #	DESCRIPTION
1	91590	Protector Case w/Lid Foam
1	91594	TIF FLO Code 62 Foam Insert
1	81924	#8 (1/2") Inlet Flange
1	81925	#12 (3/4") Inlet Flange
1	81926	#16 (1") Inlet Flange
1	81927	#20 (1 1/4") Inlet Flange
1	81928	#24 (1 1/2") Inlet Flange
1	81929	#32 (2") Inlet Flange
1	81930	#8 (1/2") Outlet Companion
1	81931	#12 (3/4") Outlet Companion
1	81932	#16 (1") Outlet Companion
1	81933	#20 (1 1/4") Outlet Companion
1	81934	#24 (1 1/2") Outlet Companion
1	81935	#32 (2") Outlet Companion
1	82406	#8 (1/2") Flange Kit
1	82407	#12 (3/4") Flange Kit
1	82408	#16 (1") Flange Kit
1	82409	#20 (1 1/4") Flange Kit
1	82410	#24 (1 1/2") Flange Kit
1	82411	#32 (2") Flange Kit
1	90287	DKO Blanking Caps
2	90024	Tube Nuts
1	86615	Replacement O-Ring Seal Kit



## NITROCHARGE™ UNIVERSAL CHARGING/TESTING KIT

- **NITROCHARGE™** Conservation Adapters allow for universal connection for testing/charging many types of accumulators. Some applications include brakes, suspensions, frame, high intensity cushion, ride control, proportion pressure control and more.
- Unique charging manifold uses positive no leak needle valves.
- System includes a compact single charge gauging head assembly with block and bleed controls.
- European charging head complete with conversion nipples and gauge installed for efficient use in field situations.
- High quality stainless steel braided hose.
- Tank adapter is supplied for conservation from European style adapter to American style including nut and gland.
- Special adapter included to replace specific accumulator nipple with a common nipple for use with **NITROCHARGE™** System.
- Utility Starter excludes Manifold, Regulator and Mining Machine Adapters

Part No.	Description
79626	<b>NITROCHARGE™</b> Universal Charging/Testing Kit
79627	<b>NITROCHARGE™</b> Utility Starter Kit

### TEST HOSE

QTY	PART #	DESCRIPTION
2	* (1) 82003	Test Hose Assembly
1	82004	Test Hose Assembly

### PRESSURE GAUGES

QTY	PART #	DESCRIPTION
1	49013	0-3000 PSI
1	49014	0-1000 PSI
1	* 82062	Gauging Head Assembly

### CONVERSION ADAPTERS

QTY	PART #	DESCRIPTION
2	* (1) 82029	Valve Extension
2	82030	M12 Gas Valve
1	82058	1/8 Valve Assembly
2	* (1) 82060	5/8-18 x SCHRAD Adapter
2	82061	1/4-19 BSPP Adapter

### NITROGEN BOTTLE ADAPTERS

QTY	PART #	DESCRIPTION
1	82064	8S Male x CGS-5 Adapter
1	82072	C & G Nut
1	82073	CG-Gland

### SPECIAL ADAPTERS

QTY	PART #	DESCRIPTION
1	38601	C3069 x 4 Steel Fitting
1	79757	M10-1.0 Flush Face Test Nipple
1	79758	M10-1.0 90° Hydraulic Quick Coupler
1	82000	Manifold Assembly
5	* 82028	Valve Core
1	* 82032	Core Tool
5	82033	HP Valve Cap
1	* 82063	5/8 European Charging Head Assembly
10	* 82065	Copper Washer
1	82075	Dual Gauge Regulator Assembly

### HANDY PAKS

QTY	PART #	DESCRIPTION
1	86630	Conversion Adapter & Parts

Handy Paks contents are included in listings.



\*Included in Utility Starter Kit

## TIFCO'S EXCLUSIVE NITROCHARGE™ CHARGING/TESTING SYSTEM

Fittings on accumulators or attachments found on various equipment



\*1

**Part No. 82029**

Brake Accumulator  
WA-500/600/700/800/900/  
1200  
ECSS  
WA-500/600  
ECSS -Brake  
WA-100/150/200/250/320/  
450  
GD Brake  
555/655/675

2

Fitting above connects directly to **NITROCHARGE™** hose

**NITROCHARGE™** Hose

Halpak Suspension  
210M/530M  
HD-1500-5 = "530M"  
Electric Trucks  
730E/830E/930E  
Excavator PC-1800-6  
HIC High Intensity  
Cushion

3

**Part No. 82061**

Komatsu Truck  
Suspension  
Articulating  
HM-300/350/400  
Straight Frame  
HD-325-6  
HD-465/605-5-7  
HD-785 - 5

\*4

**Part No. 82060**

Ride Control  
WB- 140 - 150

\*5

**Part No. 82063**

PPC  
Proportion  
Pressure  
Control  
WA-65/75/85  
WB-140 - 150  
WA 95-3 ALS

**NITROCHARGE™**  
Conversion  
Adapters

**NITROCHARGE™**  
Hose  
& Manifold



The Female end of the **NITROCHARGE™** Conversion Adapter is connected to the accumulator or attachment on the equipment. The Male end of the **NITROCHARGE™** Conversion Adapter is connected to the **NITROCHARGE™** Hose end.

\*Included in Utility Starter Kit

## Hydraulic Seminars

### Hydraulic Safety Seminar - #91125

- SAE Hose Numbering System
- How to Couple Hydraulic Assemblies
- Proper Hose Cutting Procedure
- Hose End Fitting Insertion Depth
- Final Crimp Diameter Inspection Report

GSA# GS-24F-0013N

### American Fittings Seminar - #91687

How to Identify & Use:

- N.P.T. Pipe Fittings
- J.I.C. 37° Flare
- SAE 45° Flare
- SAE O-Ring Boss
- SAE Inverted Flare
- SAE J518-Code 61 & 62 Split Flange

GSA# GS-24F-0013N

### Metric Fittings Seminar - #91126

How to Identify & Use:

- German D.I.N. Metric
- French Standard Metric
- French GAZ Metric
- Korean Standard Metric
- Japanese Industrial Standard Metric
- British Standard Pipe Parallel & Tapered
- 30° Japanese Industrial Standard
- Ways to Seal Metric or British Threaded Port
- ISO & D.I.N. Metric 4-Bolt Split Flange

GSA# GS-24F-0013N

### Diagnostic Pressure and Flow Testing Seminar - #91688

- Permanently installed screw-on and quick disconnect diagnostic test ports
- How to identify metric & SAE port plug fittings
- How and when to install in-line swivel run tees
- How to identify and use plug and abandon test
- Why flowmeter and load cell test are needed
- How to install a flowmeter system in-line

GSA# GS-24F-0013N

## Fred "Buster" Herman



His experience in the hydraulic field includes over 25 years of hands on experience working with Eaton/Weatherhead, Gates, Dayco, Stratoflex, Imperial Eastman and Anchor Coupling Hydraulic Hose and Fittings.

He successfully managed one of the United States largest Hydraulic Hose and Fitting counters for many years. During this time he supervised 23 counter personnel and averaged \$400,000.00 per month in sales of American and Metric Hose Assemblies, Fittings and Adapters.

In 1986 he worked with Dana/Weatherhead Corporation as a Technical Expert and was on their original Charter Distributors Advisory Council.

Fred holds 5 different U.S. Patents, with 2 more pending. The most recent U.S. Patent was issued June 25, 1996 (Patent #5.528.921) for a Metric and American Steel Tube and Fabricating Bending Machine.

Because of his extensive hydraulic knowledge and previous diverse practical experience, Mr. Fred Herman is uniquely qualified to teach your personnel about Metric and American Hydraulics



*These Seminars also provide direct support training for Government and Military Installations and are listed on Tifco's GSA schedule number GSA# GS-24F-0013N.*



**tifco industries**

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& MONEY THROUGH THE ORGANIZATION OF  
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