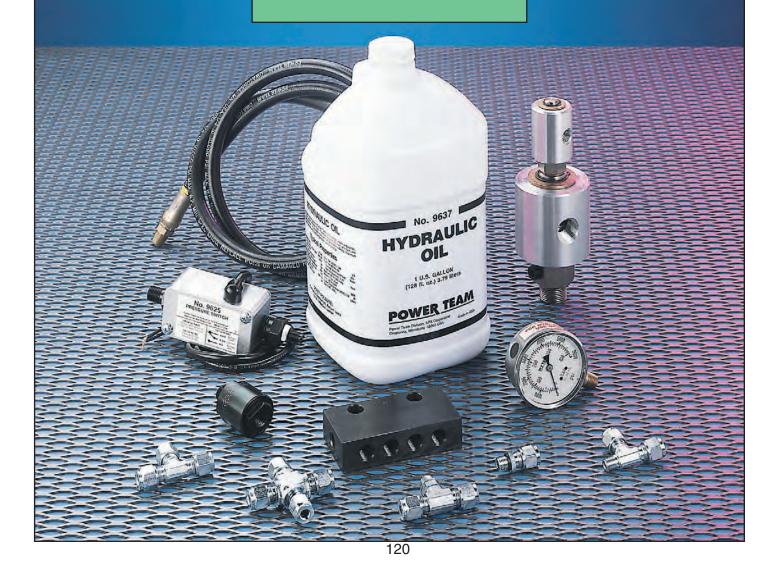
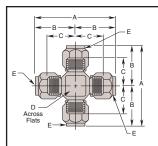
ACCESSORIES

FITTINGS PRESSURE GAUGES
HYDRAULIC FLUID ROTATING UNIONS
HOSES & TUBING PRESSURE SWITCH
COUPLERS REMOTE CONTROLS
MANIFOLDS TEMP./LEVEL GAUGE
IN-LINE FILTERS RESERVOIRS



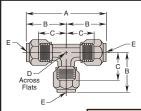




Cross

Compression Tube

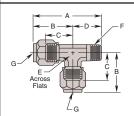
Cat. No.	Dimen	sions (lı	ions (In Inches)						
	Α	В	C	D	E Tube Size				
15058	2.156	1.078	.750	.750	.250				
17278	2.781	1.391	.953	.750	.375				



Union Tee

Compression Tube

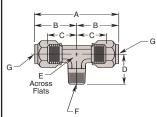
Cat. No.	Dime	nsions (In Inche	s)	
	Α	В	С	D	E Tube Size
15054	2.156	1.078	.750	.438	.250
10659	2.844	1.422	.984	.625	.375



Male Run Tee

Compression Tube to NPTF

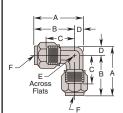
Cat.	Dime	nsions	(In Inch	es)			
No.	Α	В	С	D	E	F Thread Size	G Tube Size
15050	1.859	1.078	.750	.781	.438	1/8 NPTF	.250
205791	2.047	1.109	.781	.938	.500	1/4 NPTF	.250
10669	2.484	1.422	.984	1.062	.625	¼ NPTF	.375



Male Branch Tee

Compression Tube to NPTF

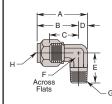
Cat.	Dime	nsions	(In Inch	es)			
No.	Α	В	С	D	E	F Thread Size	G Tube Size
15055	2.156	1.078	.750	.781	.438	1/8 NPTF	.250
205790	2.219	1.109	.781	.938	.500	1/4 NPTF	.250
10670	2.844	1.422	.984	1.062	.625	¼ NPTF	.375



90° Male Elbow

Compression Tube

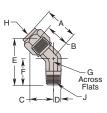
Cat. No.	Dimer	sions (I	n Inches	s)					
	Α	В	С	D	E	F Tube Size			
15059	1.297	1.078	.750	.219	.438	.250			
250211	1.641	1.359	.922	.281	.562	.375			



90° Male Elbow

Compression Tube to NPTF

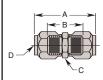
Cat. No.	Dim	ension	s (In In	ches)				
	Α	В	С	D	Е	F	G Thread Size	H Tube Size
15052	1.297	1.078	.750	.219	.781	.438	1/8 NPTF	.250
205792	1.484	1.203	.875	.281	1.062	.562	1/4 NPTF	.250
10665	1.641	1.359	.922	.281	1.094	.562	1/4 NPTF	.375



45° Male Elbow

Compression Tube to NPTF

Cat.	Dime	ension	s (In Ir	ches)					
No.	Α	В	С	D	E	F	G	H Tube Size	J Thd. Size
15053	.953	.625	.672	.281	1.359	.688	.562	.250	1/8 NPTF
10655	1.234	.797	.828	.281	1.708	.875	.562	.375	¼ NPTF

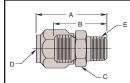


Male Union

Compression Tube

Cat.	Dimens	sions (In	ons (In Inches)				
No.	Α	В	C Hex.	D Tube Size			
15060	1.562	.906	.500	.250			
250212	1.875	1.000	.625	.375			





Male Connector

Compression Tube to NPTF

Cat. No.	Dimer	nsions (I	n Inche	s)					
	A	В	C Hex.	D Tube Size	E Thread Size				
15061	1.281	.953	.500	.250	⅓ NPTF				
205793	1.484	1.156	.625	.250	1/4 NPTF				
10661	1.641	1.203	.625	.375	1/4 NPTF				

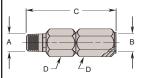


Tube Sleeve



Cat. No.	A Tube Size	Fitting Style
13031	.250	Compression
10430	.375	Compression

NOTE: Hytec tube sleeves may not be compatible with other tubing materials and grades.

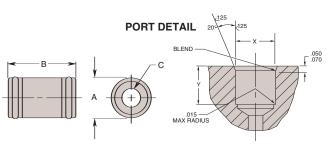


Check Valve



Cat. No.	Dimensions (In Inches)						
	A Thread Size						
206330	1/4 NPTF	1/4 NPTF	2.250	.750			

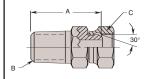
NOTE: Cracking pressure - 5 psi max.



Connector Bushing

	Dimensions (In Inches)						
Cat. No.		Bushing		Port			
NO.	A Dia.	В	C Dia.	X Dia.	Υ		
*100169	.500	.844	.234	.500 .503	.515 .535		

NOTE: * Box of Ten Connector Bushings.



Swivel Adapter

Caution - The female swivel end is a straight pipe thread (NPSM) with a 30° seat. All male pipe fittings that are used with these female swivel adapters must have an internal 30° seat to seal properly.

Cat.	Dimensions (In Inches)					
No.	Α	B Thread Size	C Thread Size			
15069	1.030	1/4 NPTF	1/8 NPSM			
11310	1.260	1/4 NPTF	1/4 NPSM			



Reducer

NPTF

Cat.	Dimensions (In Inches)						
No.	A B C D Thread Size Thread Size Hex.						
13269	¼ NPTF	1/8 NPTF	.625	.781			

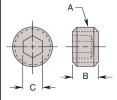


Adapter

NPTF

Cat.	Dimensions (In Inches)								
No.	A Thread Size	O	D Hex.						
15235	1/8 NPTF	1/4 NPTF	1.140	.750					
*252128	1/4 NPTF	⁷ / ₁₆ 20UNF SAE-4	1.310	.688					

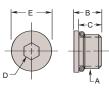
 $^{^{\}star}$ Use with 216437 Metering Valve to control flow in $\,\%$ NPTF actuators.



Plug

NPTF

PLUGS - NPTF									
_	Dimensions	(In Inche	es)						
Cat. No.	A B C Hex.								
15499	½ NPTF	.242	.188						
10479	1/4 NPTF	.437	.250						
16232	³ ⁄ ₈ NPTF	.400	.312						

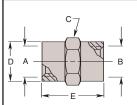


Plug

SAE O-Ring

PLUGS - SAE O-RING										
Cat. Dimensions (In Inches)										
No.										
250883	⁷ /16-20UNF	.450	.360	.188	.563					

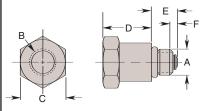




Connector

MPTF

	Dimensions (In Inches)							
Cat. No.	A Thread Size	B Thread Size	C Hex.	D Dia.	Е			
12740	¼ NPTF	¼ NPTF	.750	.730	1.125			



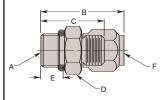


Metering Valve

NPTF to O.R.B.

Cat.	Dimensions (In Inches)							
No.	A Thread Size	B Thread Size	C Hex.	D	E	F		
216437	⁷ ⁄ ₁₆ -20UNF SAE–4	1/4 NPTF	.750	.700	.435	.075		

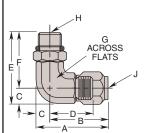
NOTE: Orifice size - .013/.017 dia.



Male Connector

O.R.B. to Compression Tube

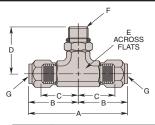
Cat	Dimensions (In Inches)								
No.	A Thread Size	В	С	D Hex.	Е	F Tube Size			
250685	⁷ ∕₁6-20 UNF SAE–4	1.203	.875	.562	.359	.250			
250686	%6-18 UNF SAE-6	1.453	1.016	.812	.391	.375			



90° Male Elbow

Compression Tube to O.R.B.

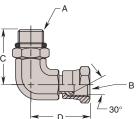
Cat.	Dim	Dimensions (In Inches)										
No.	A	В	C D E F G H Thread Size Tub					J Tube Size				
250687	1.297	1.078	.219	.750	1.266	1.078	.438	⁷ / ₁₆ -20 UNF SAE-4	.250			
250688	1.625	1.344	.281	.906	1.516	1.250	.562	%16-18 UNF SAE-6	.375			



Male Branch Tee

Compression Tube to O.R.B.

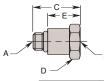
Cat.	Dimensions (In Inches)										
No.	Α	В	C	C D E F Thread Size Tube							
250689	2.156	1.078	.750	1.047	.438	⁷ ∕16-20 UNF SAE–4	.250				



90° Swivel Adapter

Caution - The female swivel end is a straight pipe thread (NPSM) with a 30° seat. All male pipe fittings that are used with these female swivel adapters must have an internal 30° seat to seal properly.

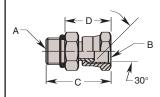
Cat.	Dimensions (In Inches)						
No.	A Thread Size	С	D				
250692	⁷ / ₁₆ -20 UNF SAE-4	1/4 NPSM	1.120	.970			



Male Adapter

O.R.B. to NPTF

Dimensions (In Inches)							
No.	A Thread Size	B Thread Size	С	D Hex.	E		
210312	⁷ ⁄₁6-20 UNF SAE–4	¹ ⁄ ₄ NPTF	1.062	.750	.710		

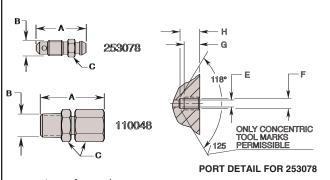


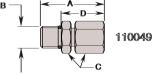
Swivel Adapter

Caution - The female swivel end is a straight pipe thread (NPSM) with a 30° seat. All male pipe fittings that are used with these female swivel adapters must have an internal 30° seat to seal properly.

Cat.	Dimensions (In Inches)					
No.	A Thread Size	B Thread Size	C	D		
250690	⁷ / ₁₆ -20 UNF SAE-4	1/4 NPSM	1.320	.865		

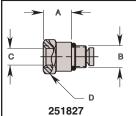




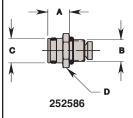


Air Bleed Valves

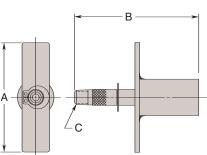
	Dimer	nsions (In II	nches)					
Cat. No.	A	B Thread Size	C Hex	D	E Dia. Max.	F Thread Size	G Min.	Н
253078	1.000	%₀-24UNF	.312	_	.177	%-24UNF	.350	.450 .510
110048	1.630	1/4 NPTF	.562					
110049	1.440	%-20UNF SAE-4	.562	1.080	ı	_	ı	_



Accumulator Metering Valves

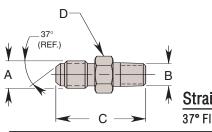


	Dim	Dimensions (In Inches)				
Cat.	Α	В)	D	
No.		Thd. Size	Thd. Dia.	Dia.	Hex	
251827	.698	%-18 UNF	¼ NPT	-	.750	
252586	.544	716-10 OIVI	_	.624 .622	.750	



Accumulator Charging Tool

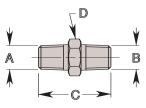
		Dimension (In Inches)
Cat. No.	A	В	C Thread Size
500149	3.000	3.400	½ NPTF



Straight

37° Flared Tube to NPTF

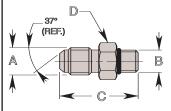
Cat.	Dimensions (In Inches)						
No.	A Thd. Size	B Thd. Size	С	D Hex	Tube Dia.		
11628	%-18 UNF	% NPTF	1.430	.750	.375		
253019	7/6-20 UNF	1/4 NPTF	1.220	.500	.250		
253076	/16-20 OINI	1/4 NPTF	1.420	.562	.250		
253174	%-18 UNF	/4 INF 11	1.430	.625	.375		



Straight

NPTF

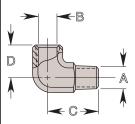
Cat.	Dimensions (In Inches)						
No.	A Thd. Size	B Thd Size	С	D Hex			
10672	¼ NPTF	¼ NPTF	1.450	.625			
11421	1/4 NPTF	1/4 NPTF	1.060	.437			
12328	% NPTF	¼ NPTF	1.360	.750			
16691	¼ NPTF	1/4 NPTF	1.234	.593			
215373	1/4 NPTF	1/16 NPTF	1.010	.438			



Straight

37° Flared Tube to O.R.B.

Cat.	Dimension	s (In Inches	(In Inches)				
No.	A Thd. Size	B Thd Size	С	D Hex	Tube Dia.		
253020	7/6-20 UNF	%-20 UNF SAE-4	1.230	.562	.250		
253021	%-18 UNF	%-18 UNF SAE-6	1.300	.687	.375		



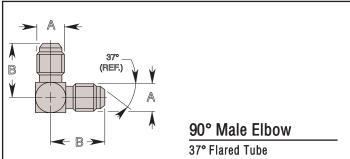
90° Elbow Adapter

NPTF

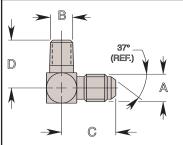
Cat.	Dimensions (In Inches)						
No.	A Thd. Size	B Thd Size	С	D			
10617	¼ NPTF	¼ NPTF	1.090	.880			
13229	½ NPTF	1/4 NPTF	.780	.660			
13864	/8 INF 11	¼ NPTF	./60	.880			

ttings

Fittings



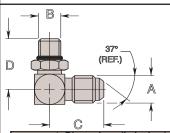
Cat.	Dimensions (In Inches)				
No.	A Thd. Size	В	Tube Dia.		
253007	7/16-20 UNF	.890	.250		
253008	%-18 UNF	1.060	.375		



90° Male Elbow

37° Flared Tube to NPTF

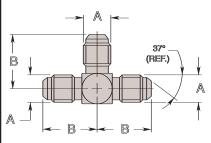
Cat.	Dimensions (In Inches)							
No.	A Thd. Size	B Thd. Size	С	D	Tube Dia.			
253009	7/16-20 UNF	¼ NPTF	1.060	1.090	.250			
253010	%-18 UNF	% NPTF	1.140	1.220	.375			
253175	7/6-20 UNF	1/4 NPTF	.890	.780	.250			



90° Male Elbow

37° Flared Tube to O.R.B.

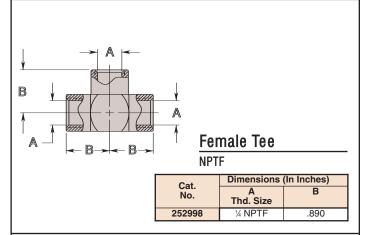
Cat.						
No.	A Thd. Size	B Thd. Size	C	D	E Hex.	Tube Dia.
250605	%6-20 UNF	%6-20 UNF SAE-4	.890	1.030	.562	.250
253011		%6-18 UNF SAE-6	1.060	1.250	.687	
253012	%-18 UNF	%-16 UNF SAE-8	1.140	1.450	.875	.375
253013		%-14 UNF SAE-10	1.230	1.700	1.000	

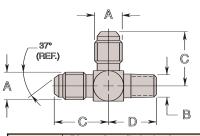


Male Tee

37° Flared Tube

1	Cat.	Dimensions (In Inches)				
	No.	A Thd. Size	В	Tube Dia.		
	252996	7/₁6-20 UNF	.890	.250		
	252997	%-18 UNF	1.060	.375		

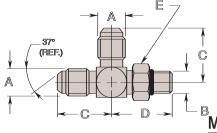




Male Run Tee

37° Flared Tube to NPTF

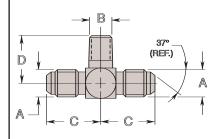
Cat.	Dimensions (In Inches)								
No.	A Thd. Size	B Thd. Size	С	D	Tube Dia.				
253022	%-20 UNF	1/4 NPTF	.890	.780	.250				
253023	716-20 OIVI	¼ NPTF	1.060	1.090	.230				
253025	%-18 UNF	/4 INI 11	1.000	1.090	.375				
253026	/16-10 OIVI	% NPTF	1.140	1.220					



Male Run Tee

37° Flared Tube to O.R.B.

Cat.	Dimensions (In Inches)										
No	A Thd. Size	B Thd. Size	С	D	E Hex.	Tube Dia.					
253024	%₀-20 UNF	%6-20 UNF SAE-4	.890	1.030	.562	.250					
253027	%-18 UNF	%6-18 UNF SAE-6	1.060	1.250	.687	.375					

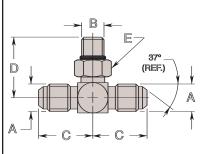


Male Branch Tee

37° Flared Tube to NPTF

1	Cat.	Dimensions (In Inches)									
	No.	A B Thd. Size Thd. S	B Thd. Size	С	D	Tube Dia.					
	253028	7/16-20 UNF	1/4 NPTF	.890	.780	.250					
	253030	%6-18 UNF	¼ NPTF	1.060	1.090	.375					

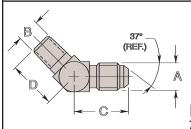




Male Branch Tee

37° Flared Tube to O.R.B.

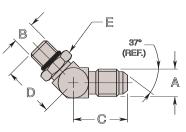
Cat.	Dimension	Dimensions (In Inches)										
No.	A Thd. Size	B Thd. Size	С	D	E Hex.	Tube Dia.						
253029	%6-20 UNF	7/16-20 UNF SAE-4	.890	1.030	.562	.250						
253031	%6-18 UNF	%6-18 UNF SAE-6	1.060	1.250	.687	.375						



Male 45° Elbow

37° Flared Tube to NPTF

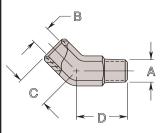
Cat.	Dimensions (In Inches)									
No.	No. Thd. Size Thd. Size		O	D	Tube Dia.					
253014	7/16-20 UNF	¼ NPTF	.820	.860	.250					
253016	%-18 UNF	¼ NPTF	.840	.860	.375					
253017	%-18 UNF	% NPTF	.880	.950	.375					



Male 45° Elbow

37° Flared Tube to O.R.B.

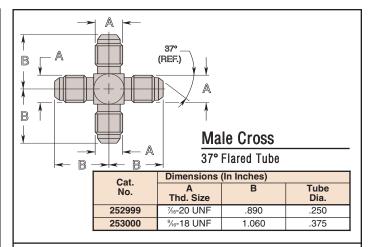
Cat.	Dimensio	Dimensions (In Inches)										
No.	A Thd. Size	B Thd. Size	С	D	E Hex.	Tube Dia.						
253015	%-20 UNF	7/6-20 UNF SAE-4	.720	1.050	.562	.250						
253018	%-18 UNF	%-18 UNF SAE-6	.830	1.180	.687	.375						

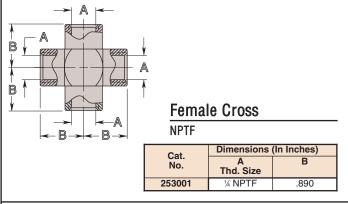


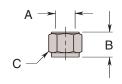
45° Elbow Adapter

NPTF

Cat	Dimensions (In Inches)								
No.	Cat. A Thd. Size Th	B Thd. Size	С	D					
19121	1/4 NPTF	1/4 NPTF	.470	.720					
10645	¼ NPTF	¼ NPTF	.630	1.050					



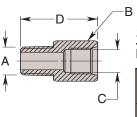




Nut

37° Flared Tube

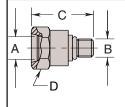
Cat.	Dimensions (In Inches)								
No.	A Thd. Size	В	C Hex.	Tube Dia.					
253032	7/16-20 UNF	.610	.562	.250					
253033	%-18 UNF	.720	.687	.375					



Straight

BSPP to O.R.B.

I	Cat	Dimensi	ons (I	n Inches)	
		A Thd. Size	B Hex.	С	D
	253288	14 BSPP	.750	%-20 UNF SAE-4	1.250



Straight

0.R.B.

Cat	Dimensio	ns (In Inch	es)	
Cat. No.	A Thd. Size	B Thd. Size	C D Hex.	
351816	%-20 UNF SAE-4	%-24 UNC SAE-2	1.065	.625



Hydraulic Fluid

For dependable performance of cylinders, clamps, valves, and pumps, these high-grade hydraulic fluids contain anti-rust, anti-foam, and anti-sludge additives. They provide maximum film protection lubricity, maximum heat transfer, and a wide operating temperature range.

Hytec's "environmentally friendly" hydraulic fluid is a biodegradable, non-toxic formulation which can withstand severe operating conditions and provide excellent anti-wear properties.

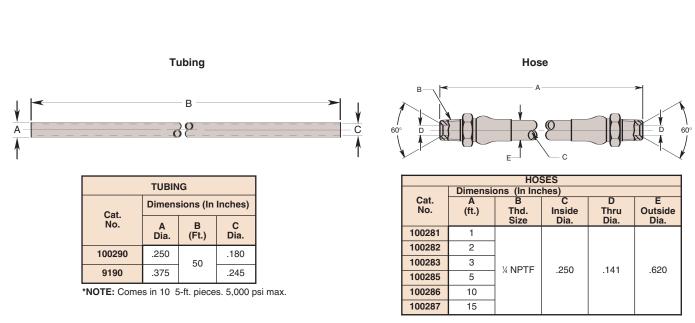
The "Flame-Out" fire resistant fluid has been approved by United States Mine Safety Health Administration under Referral Register Title 30, Part 35. All fire resistant fluids will burn if heat source is extreme, eq.: hot slabs, molten steel, etc. They will not, however, propagate the flame and are selfextinguishing in the absence of an ignition source.

The use of the fire resistant fluid does not require changing the seals in any Hytec equipment as it would when using other types of fire resistant fluids. The standard fluid need only be drained from the complete system and replaced with fire resistant hydraulic fluid.

Tubing

Hytec's low carbon steel tubing conforms to SAE J525. Hytec fittings may not be compatible with other tubing materials and grades (eg. stainless steel). DO NOT SUBSTITUTE. Hytec tubing may not be compatible with other fittings. DO NOT SUBSTITUTE.

Hytec thermoplastic hose conforms to SAE 100R8 specifications.



NOTE: 4 in.	min. bend	radius.	5,000 psi max.
-------------	-----------	---------	----------------

					HYDRAUL	IC FLUID							
Cat.	Description	Size	Qty.	Grade	Specific	Color	Flash	Fire	Pour	Viscosity		Viscosity	
No.				(ASTM)	Gravity @60°F	(ASTM)	Point (°F)	Point (°F)	Point (°F)	SUS @ 100°F	SUS @ 210°F	Index (Min.)	Test (ASTM)
9636		1 Quart	1										
9636-12		1 Guart	12										
9637	Hydraulic Oil	Hydraulic Oil 1 Gallon 4	1	- 215 .875 -	2.0	400	430	-30	215	48	100		
9637-4	Tiyuraule Oli		4		.070								Pass
9638		2½ Gal.	1									1 400	
9638-2		2/2 00.1	2										
9639	Flame-Out fire resistant		1	220	.910	Light	500	550	-15	200	55	140	
9639-4	hydraulic fluid	1 Gallon	4		.510	Amber	- 550	230	10			. 10	
9645	"Environmentally Friendly"		1	_	.922	2.0	432	_	-22	183	53	213	_
9646	hydraulic fluid	2½ Gal.	'		.022	2.0	132			.50		210	

Couplers



Hytec offers both an economical standard poppet type coupler and labor-saving push-to-connect flat face coupler. Both styles are rated at 5,000 psi that has ¼" NPTF connections.

The standard coupler is recommended for lower cycle applications where two hand connections and slight spillage after disconnection is acceptable.

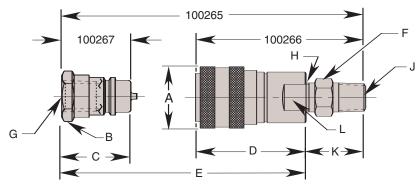
The push-to-connect coupler is easier to connect and keep clean, making it ideal for use in high cycle applications like pallet coupling. (This coupler is found on our manual pallet valve.) The flat face design eliminates the waste and mess associated with other types of hydraulic couplers. The

coupler collar is lockable, making it even more secure in moving applications.

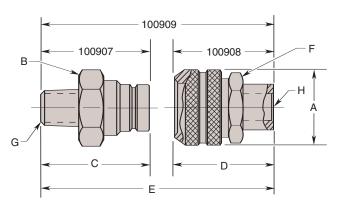
Features:

- Standard and push-to-connect versions
- 1/4" NPTF connections
- 5,000 psi max. operating pressures

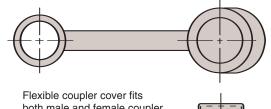




Push-to-connect



Coupler Cover - 251779

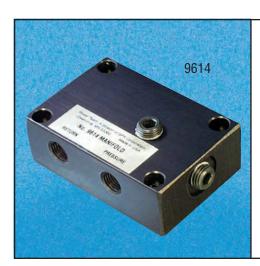


both male and female coupler halves. (100907, 100908)

	Dimension	ns (In Inches	s)								
Cat. No.	A Dia.	B Hex.	С	D	E (Coupled)	F Hex.	G Thread Size	H Thread Size	J Thread Size	К	L Flats
100265	1.062			1.900	2.400	.625	1/4 NPTF		1/4 NPTF	1.062	.750
100266	1.002	.750	1.190	1.900	_	.020	_	1/4 NPTF	/414111	1.302	.750
100267	-			_	_	-	1/4 NPTF		_	_	-
100907	-	1.000	1.720	-	-	-	1/4 NPTF	-			
100908	1.060	_	- 4	1.790	_	1.00	_	½ NPTF	-	-	-
100909	1.060	1.000	1.720	1.790	2.970		1/4 NPTF	/4 INF II			

Manifolds





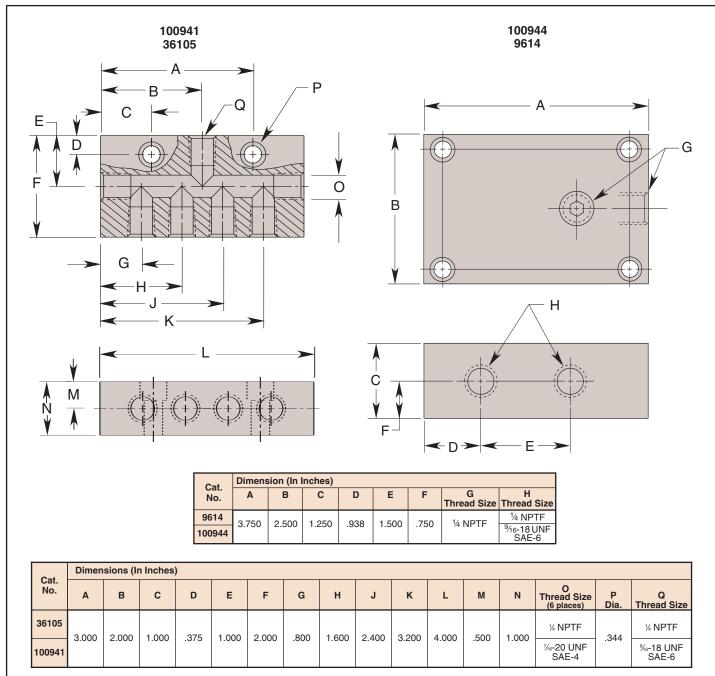
The 9614 manifold assembly comes as standard equipment on Hytec pumps No. 100186, 100280, 100190, 100200, 100174, 100220 and 100211. It provides the connection points for pressure and return lines as well as a gauge and/or pressure switch. These pumps are designed to have this manifold removed and directly replaced by our number 9504 pump-mounted control valve.

Use this manifold to convert these pumps back to manifold outlet, remote mounted valve applications. Includes manifold, reservoir return tube, mounting hardware and two ¼" NPT plugs. The 100944 is available for making SAE O-ring connections.

Manifold 36105 is ideal for connecting

multiple actuators to a single pressure source. Used with conventional ½" NPT fittings, the seven ports are internally connected with large diameter passages to reduce restriction. The ports on any of the four sides can be plugged if not used. Two mounting holes are provided in the manifold to secure it to the fixture or machine tool. Since there are no ports in the top or bottom mounting faces, multiple manifolds can be stacked to save space.

Manifold 100941 shares the same features but provides SAE O-ring ports.





In-Line Filters



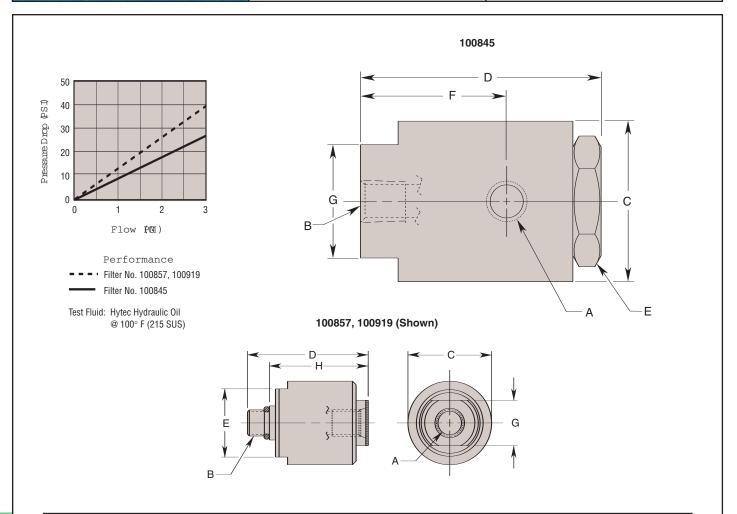
No. 100845 - This high pressure filter is intended for use in systems where there is flow in only one direction such as pressure or return lines between the power source and control valve. This in-line filter has a removable/replaceable sintered bronze element. The element is accessible without removing the filter body from the installation.

No. 100857, 100919 - These high pressure, non-bypass, in-line filters are suitable for both unidirectional and bi-directional circuits. This allows the filter to be installed in single acting or double acting circuits downstream from the control valve where the fluid flows in both directions. It's specially reinforced, stainless steel mesh filter element

resists fatigue from pressure spikes. Both are ideal for use in pallet coupling circuits to protect components from contaminants introduced at the couplers. The No. 100857 is ideally suited for Hytec's No. 100223 manual pallet valve. Simply remove the coupler from the pallet valve and install this filter between the valve and coupler.

Features

- 5,000 psi maximum operating pressure
- Low pressure drop
- · Removable/replaceable elements



	Specifications	Dimensions (In Inches)										
Cat.	Filtration	Max.	A	В	C	D	E		F	G	Н	
No.	Nominal/ Absolute	Operating Pressure (PSI)	Inlet Port	Outlet Port	Dia.		Hex	Flats		Flats		
100845	10/- Micron	_	¼ NPTF	¼ NPTF	2.125	3.188	1.500	_	1.938	1.500	_	
100857	10/25 Micron	5,000	/4 INI 11	/4 IVI II	1.380	2.100	_	1.125	_	.750	1 620	
100919	10/23 MICTOR	5,000	%-20 UNF SAE-4	%-20 UNF SAE-4	1.380						1.630	





Hytec offers standard hydraulic pressure gauges for monitoring system pressure. All have English and metric scales for convenience.

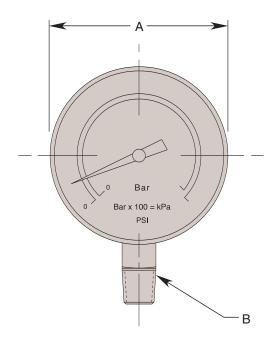
Liquid-filled gauges are recommended for high cycle or pulsating applications because the liquid tends to dampen vibration which protects the meter movement and calms "needle quiver." Dry gauges are recommended for applications where fast needle reaction is essential.

All gauges have built-in snubbers. In applications where pressure spikes are present, further snubbing may be necessary for the dry gauge.

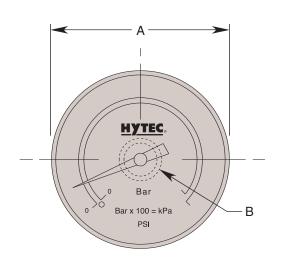
Features:

- Dual scales
- Liquid-filled or dry
- ¼" NPT brass connection, bottom and ½" NPT back mount









0.1	Specifications					Dimensions (In Inches)		
Cat. No.	Scale	Range	Graduations	Case	ANSI Accuracy	А	В	
100236	PSI	0-6,000	100 PSI	Liquid Filled	1.6%			
100230	Bar	0-400	10 Bar	Liquia Fillea	1.0%	- 2.625	¼ NPT	
100238	PSI	0-5,000	100 PSI	Dni				
100236	kPa	0-35,000	1,000 kPa	Dry	2%		/4 INF 1	
100878	PSI	0-2,000	50 PSI		270	2.640		
100676	Bar	0-140	2 Bar	Liquid Filled		2.640		
100917	PSI	0-6,000	1,000 PSI	Liquia Fillea	1.6%	1.770	% NPT	
100917	Bar	0-400	100 Bar		1.0%	1.770	Back Mount	



Rotating Unions



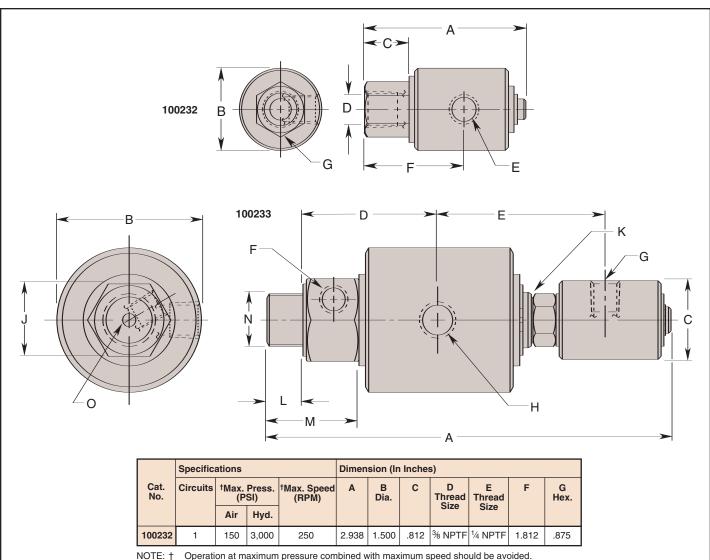
Rotating unions allow hydraulic or air power sources to be continuously connected in rotating applications allowing the use of constant pressure hydraulic workholding on lathes, boring machines, rotary transfer tables, etc. The single circuit union is used for single-acting systems. The dual circuit version is necessary for double-acting systems or for two separate single-acting circuits. The unique design of the dual circuit union eliminates the possibility of inter-passage leakage so different fluids can be used in each circuit without danger of intermixing.

For maximum seal life, combined conditions of both maximum pressure and maximum rpm should be avoided.

Rotors are plated for wear and corrosion resistance. Both versions use a low torque, balanced seal design.

Features:

- · Single and dual circuit designs
- Range 28 in. hg. to 3,000 psi max.
- 250 rpm max.
- · Balanced seal design
- Low torque



Operation at maximum pressure combined with maximum speed should be avoided.

	Specifica	ations			Dimen	sion (In	Inches	s)										
Cat. No.	Circuits		Press. SI)	†Max. Speed (RPM)	Α	B Dia.	C Dia.	D	E	F Port	G Port (Circuit B)	H Port	J Hex.	K Hex.	L	М	N Thread Size	O Dia.
		Air	Hyd.							(Circuit A)	(Olicult D)	(Ollouit A)					(Circuit B)	
*100233	2	150	3,000	250	7.688	2.750	1.500	2.562	3.188	1/4 NPTF	1/4 NPTF	3/8 NPTF	1.375	.875	.688	1.875	1-14 UNS	.250

For optimum performance, high pressure should be thru inner passage. Operation at maximum pressure combined with maximum speed should be avoided

Pressure Switch





This hydraulic pressure switch is used to either control or monitor system pressure. To control system pressure the switch can be electrically wired into a pump's power circuit. At lower pressures, the switch is closed, causing the pump to run. When the pressure reaches the switch setting, the switch contacts open, stopping the pump. When system demands cause the pressure to drop 300 psi, the contacts will again close to start the pump. This switch is included with all Hytec electric pumps.

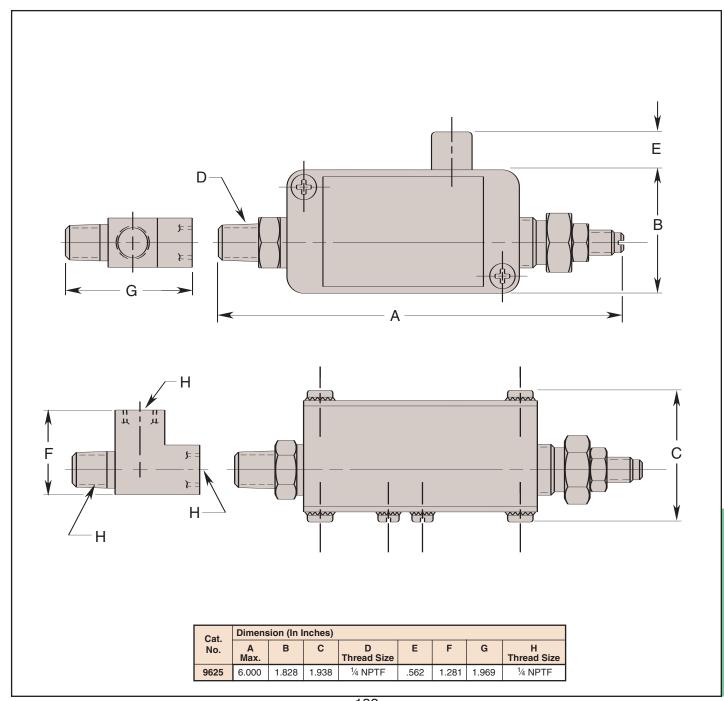
When used to monitor system pressure, the switch can be used to signal a warning light or other alarm, or can be interfaced with

a machine tool to shut down a process if pressure falls below the switch setting.

Includes ¼" NPT tee for connecting to hydraulic circuit, and two feet of 18 AWG cable.

Features:

- Pressure range: 1,000 to 5,000 psi
- Differential: 200-600 psi, non-adjustable
- Contacts are normally closed can be converted to normally open
- Contact rating: 250 VAC max.; 5 amps max.
- UL recognized
- · Contacts are CSA approved





Remote Controls

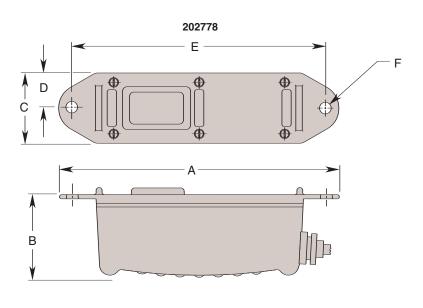


Remote Hand Switch No. 202778

Ideal for use with the 9612 control valve. Includes 10 feet of 18 AWG 3-wire cable, and

a sealed, CSA approved, single-pole doublethrow momentary rocker switch in a glass reinforced thermoplastic enclosure.

NOTE: The electric solenoid remote control requires an electrical impulse to activate or release the Booster-Pac clamp control valve. The Booster-Pac will not lose clamping pressure in the event electrical power is lost. If electric power is lost while in the clamp position, pressure can be released manually.



Cat.	Dimens	ion (In In	ches)				
No.	A	В	С	D	Е	F Dia.	
202778	7.630	2.460	1.930	.965	6.880	.315	

Fluid Level/Temperature Gauge & Reservoirs





Fluid Level/Temperature Gauge No. 350431

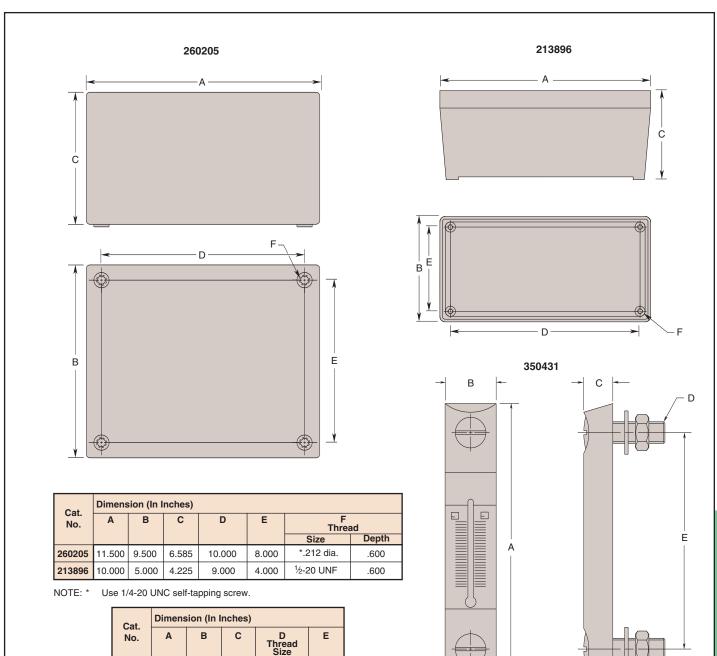
This combination fluid level/temperature gauge allows you to visually check the level of the hydraulic fluid in your Hytec pump without opening the fill port. Its large 1½" wide, 6¾" high viewing area lets you see the fluid level from a distance. Built into the gauge is a dual scale thermometer that reads 32–212°F and 0-100°C. To mount, simply drill two ½" diameter holes in the reservoir and attach the gauge. This gauge is designed for use on pumps with 2.5 gal. and 5.7 gal. metal reservoirs as well as 2 gal. polyethylene reservoirs.

Reservoir Conversion Kit No. 260205

Includes 2.5 gallon (375 cu. in. usable) metal reservoir with a gasket and all the hardware needed to replace the plastic reservoir on pump Nos. 100178, 100179, 100178-230, 100179-230, 100922 and 100200.

Reservoir Conversion Kit No. 213896

Includes 107 cu. in. (102 cu. in. usable) metal reservoir, plus gasket and fasteners needed to replace the plastic reservoir on pump Nos. 100280, 100190, 100180, 58219, 100921, 100918, 100174, 100191 and 100920.



5.000

6.340

350431

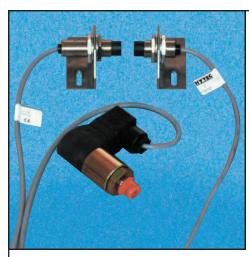
1.180

.670

M12 x 1.75

SPX HYTEC®

Pressure Monitoring System



What is the biggest fear you have about hydraulic pallet systems? For most operators, it is that you'll transfer a pallet into a machining center only to find that the hydraulic clamping system has failed to acuate. Or worse yet, slowly lost pressure while it was waiting in the pallet pool.

Pressure monitoring systems for hydraulic fixtures have always been a good idea. Unitl now, however, the systems were complex, high maintenance, took up space and were very expensive.

Hytec has introduced a new small, simple contact, pallet pressure monitoring system that eliminates the need for batteries on the pallet! The system consists of three parts: a pressure switch, a transmitter and a receiver.

On the pallet, the pressure switch is connected to the transmitter. At the worksetting station or in the machine, the receiver is connected to your machine's controller or cell PLC.

When the transmitter is in close proximity to the receiver, it inductively powers the on-pallet electrical system. No batteries are required! The transmitter sends a signal to the receiver indicating that the pallet is pressurized to above the minimum pressure set by the pressure switch.

Powered by your 24VDC PLC, you can program machine shut-down, pallet rejection or simply warn your operator should system pressure fall below the pressure switch setting.

A typical system for pallet pressure monitoring requires one receiver for each location where pressure is being monitored. Each

pallet requires one transmitter and one pressure switch.

The system can be used to monitor pressure as the transmitter on the pallet passes near the receiver as it travels into the machining center. In applications where the receiver can be mounted in the machine where the pallet is fixed or where the receiver can follow the pallet, constant, non-contact monitoring is possible.

The transmitter and receiver pair can be used with any number of switchs in series to monitor multiple pressures or positions. (Switches must be designed for low amperage applications.) Additional switches might be used to monitor workpiece position or ensure that mechanical fixture elements have actuated. This system is also capable of powering one, non-contact proximity sensor, either with or without pressure switches. Contact Hytec for additional application information.

ORDERING INFORMATION

- 110137 Receiver: Consists of a receiver with 6.5 ft. of cable, mounting bracket and two M18 jam nuts. 24VDC, Load current capacity 100mA max. Maximum transmission sensing distance .157 in. PNP current sourcing, normally open.
- 110138 Transmitter: Consists of transmitter with 3.3 ft. of cable, mounting bracket and two M18 jam nuts.
- **110143 Pressure Switch**: 1000-5000 psi max. Normally open 1/8 NPT.



- Simple
- No Batteries
- Low Cost
- No Maintenance
- Small
- Non-Contact