

## **Application Data Sheet**

(for Brake Valve Systems)

24.5
Dale

Confidential
You incur no obligation by submitting this data and the non-public information provided will be held in confidence by ZF.

Name _		Title				
Company						
Address	City	State	e	Zip		
Fax Phone		Country				
Email						
Are you currently working with a ZF Off-Highway Distributor?						
Estimated Annual Quantity	_					
Is this a military application? Yes No	If yes, what is the o	lestination country?				
Is this an underground coal mine application?	es No					
HYDRAULIC SYSTEM CHARACTE	DISTICS					
Attach any available hydraulic system sc		ent to full nower act	uation circ	ruite		
Maximum pump flow		im pump flow		,uits.		
Pump type: Gear Vane Piston	Manufacturer and m	odel number				
Load Sensing: Yes No Stand	by					
	ef valve					
Oil names and numbers			Filtration		microns	
Operating temperature range: Minimum	Normal	Maximum	_		_ 111161-0116	
Flow required for components other than brake valve		<del></del>				
What is the function of other components?						
VEHICLE SPECIFICATIONS  Type of vehicle or machine	Name and model	number				
	_					
Weight distribution loaded: front	ehicle weight					
	or % rear	or %				
Rolling radius: front rear		and the forces of the ed				
Maximum loaded speed (level)	_	rade in favor of load		%		
Rate of deceleration desired: Stop in	from	or				
Is this application required to conform with recommend	ed practices or stand	ards, if so which ones?				
SPECIFICATIONS MOBILE EQUIP	MENT					
Duty cycle						
Type of brake actuation: Hydraulic Mechanical Air Spring set hydraulic release Other						
System fluid used: DOT 3 or 4 brake fluid	Mineral oil base	Water base	Synthe	tic base		
Fluid manufacturer and brand name					Continue	
					Continue	



ZF Off-Highway Solutions Minnesota Inc.

1911 Lee Boulevard / North Mankato, MN U.S.A. 56003-2507 **Tel:** +1 507 625 6426 **Fax:** +1 507 625 3212

## BRAKE VALVE REQUIREMENTS

## Attach any available brake performance specifications. Brake type Caliper Drum In axle Number per vehicle ☐ Yes Self adjusting: Indicate brake relation within axle to gear train (use diagram): Brake mounted on driveline Overall ratio Brake mounted between differential and planetary ratio Differential ratio Brake wheel end out board of planetary ratio Planetary ratio Caliper brake characteristics: Piston diameter Number of pistons per caliper side Maximum stroke . or area Piston pretravel to contact disc Maximum allowable pressure Rotor diameter Volume requirements (per brake): New lining \_\_\_\_\_ maximum Worn lining maximum Brake torque capacity (per brake): Manufacturer Model number Drum brake characteristics: Brake size (diameter and width) x Wheel Cylinder: Diameter \_\_\_\_\_ Number \_\_\_\_ Piston travel to contact drum Actuation volume requirements (per brake): New lining maximum Brake torque capacity (per brake): Maximum allowable pressure Manufacturer Model number In Axle brake characteristics: Maximum allowable pressure Axle manufacturer Axle model number Brake type: Dry Multiple Disc Wet Multiple Disc Actuation volume requirements (per axle): Worn lining New lining maximum maximum Brake torque capacity (per brake): Required number of vehicle stops without main hydraulic system pressure Type of fluid used with brakes Comments:

Proposals will be made on the basis of the information provided. Subsequent customer engineering changes affecting the above could make our proposal invalid.

## **NOTICE**

Component and system recommendations made by ZF Off-Highway Solutions Minnesota Inc. are based on information supplied by you. ZF does not independently confirm or test information supplied, or test the applicability of components or system recommendations. All recommendations are based on theoretical application of ZF Off-Highway Products based on the information you provide. Actual results may vary based on actual use conditions or inaccuracies in provided information. You must finally accept and approve recommended components and systems after you test the performance of the recommended system and components in actual applications for which the system was designed and in which it is operated. ZF Off-Highway reserves the right to reject any orders for components and systems not so accepted and approved. No component or system recommendation is intended to be or shall be construed as an express warranty by ZF Off-Highway Solutions Minnesota Inc. All ZF Off-Highway Products and services are sold and provided subject to the ZF Warranties set forth at <a href="https://www.mico.com">www.mico.com</a> in effect on the date of sale or supply.