

ENGINEERING  
TOMORROW

*Danfoss*

Product Brochure

# Vickers® by Danfoss

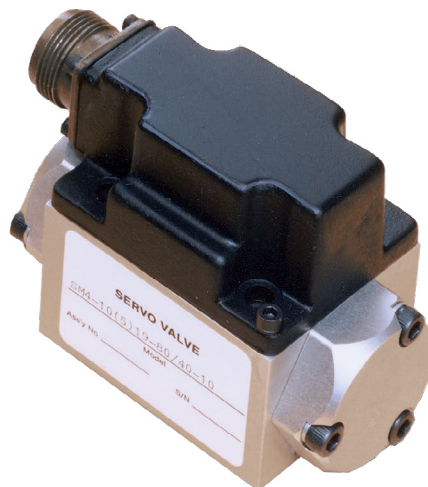
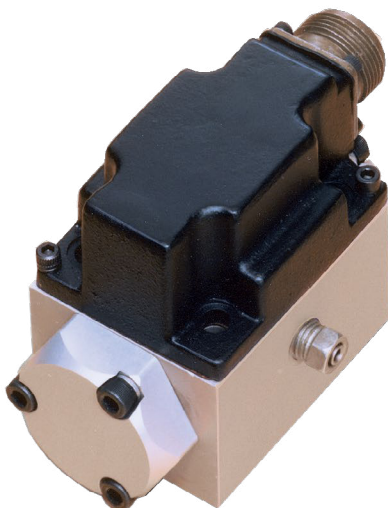
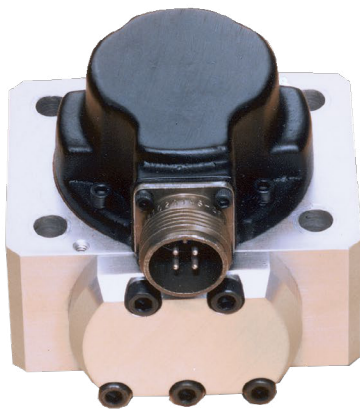
## Servo valve trade-up program - SM4

**VICKERS**  
by Danfoss



## Nobody does it better with features that include

- The industry's only jeweled feedback ball receiver eliminates "ball glitch" – a "no control" region on competitors models
- Jeweled orifices on all models provide extremely long life
- Our flapper nozzle design provides a fast, stable response at a wide range of operating pressures
- A six (6) bolt torque motor tie down system that keeps the torque motor "put" in sawmill and other high 'G' force applications
- Our O-ring sealed floating sleeve eliminates spool binding caused by sleeve distortion during valve bolt down and at high pressure
- Viton™ O-rings are standard on all models — not at a premium price, like other manufacturers
- A single 35 micron pilot filter on all models eliminates "null drift" caused by uneven filter degradation on competitors dual filter models
- The industry's ONLY 3-year warranty on new and repaired valves
- Rated flows from 1 to 40 gpm
- Maximum pressure to 5000 psi



## Here is the Trade-Up Incentive program **you have been waiting for!**

We've expanded a proven program to make it even easier to upgrade your customers to **Vickers by Danfoss** servo valves.



### **Take advantage of trade-up incentives**

Danfoss guarantees your customer the best valve package anywhere when they trade-up to our Vickers SM4 servo valves.

### **Just send us a qualifying competitor's servo valve**

By trading up and sending us a competitor's servo valve, an additional 25% discount will be issued upon receipt of the competitor's valve at our Jackson, Michigan servo valve plant. If the competitor's valve is not available to send back, the 25% discount will not be allowed on the trade-up program.

### **Order back-up valves and save**

Order back-up valves and save 15% when ordered with any of the Trade-up Incentives!

### **Once you have traded-up**

Only top quality original specification parts are installed by Danfoss qualified technicians. In addition, our fast turnaround ensures minimal downtime!

### **Warranty**

Make us the First Choice for servo valve and electronic repair and we will automatically renew the valve's 3-year warranty.

Warranty issues will be evaluated at the repair facility. Return all products with a purchase order per the price schedule. If warranty is verified, a no charge invoice will be issued to close out the purchase order. Product evaluation and repair cannot begin without a purchase order.

### **Repair/evaluation**

Each time you send your Vickers servo valves products to us for quality replacement parts or **Clean, Calibrate and Refurbish**, our First Choice Repair Program automatically **renews the valve's 3-year warranty**.

If you use the repair price for the SM4 on the purchase order, you will automatically be billed at the Test-to-Spec price if repairs are not required.

An evaluation fee will be charged if the customer elects not to proceed with the repair after the repair/evaluation process has been started, or if the returned item tests to specification as received.

### **Turnaround time**

24-hour, 72-hour, and 10-day time frames start when the product with a purchase order is received by our repair facility and stops when the repaired product is shipped. For emergency and 72-hour service, we reserve the right to substitute a new or remanufactured valve at repair prices.

## Trade-up Program

### 1. Determine if the competitors valve qualifies for the program:

Vickers by Danfoss servo valves offer a wide range of wiring configurations so customers can “plug-and-play”, without replacing amplifiers or power supplies, avoiding downtime and additional expense.

Obtain the nameplate data and locate the product in the cross reference below. For models not listed contact technical support at +1-888-258-0222.

Series	Abex	Atchley	Dyval	Moog	Parker	Pegasus	Rexroth	Ultra (Dowty)
SM4-10(**)	410	208A, 206		771, 751		12X		
SM4-12(**)	415	211A, 207		772, 752		13X		
SM4-15(**)		218	5, 10	773, 753		14X/16X		
SM4-20(**)		215A		76, A076, 760, 62	BD15	14X/16X	4WS2E-M10A-4X	4551, 4682
SM4-40(**)		240		72, 78	BD30	180 <sup>(3)</sup>		

Note: (1) Atchley 231-145/148 will require an adapter manifold when replaced by the SM4-40.  
 (2) Moog 62-300 (Unimation/Danfoss Leonard) will require an adapter manifold when replaced by the SM4-40.  
 (3) Pegasus 180L/R and Abex 425 Series will require an adapter manifold when replaced by the SM4-40.  
 (4) Moog model 72 requires an adaptor SM4AM7210.  
 (5) Rexroth 4WS2EM10 requires adaptor SM4A20510 or SM4A20550 depending on which SM4-20 version used.

### 2. Calculate your net cost from the following chart:

	10-Day Normal Service	72-Hour Service	24-Hour Emergency Service
Save 25% on a Straight-Trade-up	List x .75 x your multiplier	List x 1.0 x your multiplier	List x 1.7 x your multiplier

### 3. Ship valve:

#### Ship the valve to:

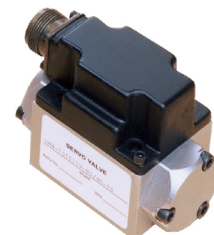
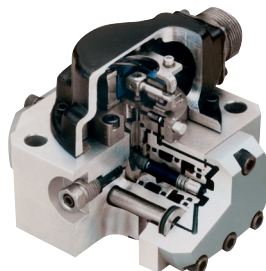
- Danfoss Power Solutions  
Attn: Repair Department  
2425 West Michigan Avenue  
Jackson, MI 49202

#### Include in the package:

- Purchase Order
- Danfoss RMA number  
Email [cylindercustomerservice@danfoss.com](mailto:cylindercustomerservice@danfoss.com) or your customer service representative
- Your “Bill to” and “Ship to” address
- Your contact person’s name
- Special instructions, if applicable

#### To get the fastest service:

- Mark your package “Urgent”
- Email a copy of the purchase order to [cylindercustomerservice@danfoss.com](mailto:cylindercustomerservice@danfoss.com) or your customer service representative



## First choice **repair program**

Make us your **First Choice** for servo valve and electronic repair and we will automatically renew the valve's 3-year warranty.

### Hydraulic product repair pricing

Most	Prefix	10-Day Normal Service	72-Hour Service	24-Hour Emergency Service
EHST		List x .65 x your multiplier	List x .75 x your multiplier	List x .95 x your multiplier
SM4	Clean, calibrate & refurbish* Repair**	List x .30 x your multiplier List x .60 x your multiplier	List x .40 x your multiplier List x .70 x your multiplier	List x .65 x your multiplier List x .95 x your multiplier

\* Minor repairs \*\* Significant repairs

### Remanufactured product

	Normal Delivery	10-Day Delivery	3-Day Delivery
Hydraulic and electronic	New item List x .85 x your multiplier	List x 1.1 x your multiplier	List x 1.4 x your multiplier

Blanket order and volume discount repair rates are available,  
call the repair department +1-517-789-1724

### The following products are repaired at our Jackson facility:

Servo valves: SM4

Other valves: EHST

### Ship valve:

#### Ship the valve to:

- Danfoss Power Solutions  
Attn: Repair Department  
2425 West Michigan Avenue  
Jackson, MI 49202

#### Include in the package:

- Purchase Order
- Danfoss RMA number  
Email [cylindercustomerservice@danfoss.com](mailto:cylindercustomerservice@danfoss.com) or your customer service representative
- Your "Bill to" and "Ship to" address
- Your contact person's name
- Special instructions, if applicable

#### To get the fastest service:

- Mark your package "Urgent"
- Email a copy of the purchase order to [cylindercustomerservice@danfoss.com](mailto:cylindercustomerservice@danfoss.com) or your customer service representative



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