

Directional, FLeX Series Cartridges

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Cavity Information

| Series | Ports | Cavities |
|--|-----------------------------|-----------------|
| Series Z Cartridges | 3-Port | T-382A |
| 3/8-24 UNF Cartridge Thread | | |
| 5 mm Valve Hex Size | | |
| 1 - 14 Nm Valve Installation Torque | | |
| Series P Cartridges | 2-Port | T-8A |
| M16 Cartridge Thread | 2-Port (Deep) | T-8DP |
| 22.2 mm Valve Hex Size | 3-Port | T-9A |
| 27 - 33 Nm Valve Installation Torque | | |
| Series 0 Cartridges | 2-Port | T-162A |
| | 2-Port (Deep) | T-162DP |
| M16 Cartridge Thread 19,1 mm Valve Hex Size | 3-Port | T-150A |
| 25,4 mm Valve Hex Size | 3-Port | T-163A |
| 27 - 33 Nm Valve Installation Torque | 4-Port | T-30A |
| Series 1 Cartridges | 2-Port | T-10A |
| M20 Cartridge Thread | 2-Port | T-13A |
| vi20 Carmage Thread 22.2 mm Valve Hex Size | 3-Port | T-11A |
| 11 - 47 Nm Valve Installation Torque | 4-Port | T-21A |
| The state of the s | 4-Port | T-31A |
| | 6-Port | T-61A |
| Series 2 Cartridges | 2-Port | T-3A |
| I"-14 UNS Cartridge Thread | 2-Port | T-5A |
| 28,6 mm Valve Hex Size | 3-Port | T-2A |
| 1 - 68 Nm Valve Installation Torque | 4-Port 4-Port | T-22A |
| | 4-Port (Dual path) | T-32A T-52AD |
| | 6-Port | T-52AD T-52A |
| | 6-Port | T-62A |
| Series 3 Cartridges | 2-Port | T-16A |
| • | 3-Port | T-17A |
| M36 Cartridge Thread 31,8 mm Valve Hex Size | 4-Port | T-23A |
| 203 - 217 Nm Valve Installation Torque | 4-Port | T-33A |
| 2 | 4-Port (Dual path) | T-53AD |
| | 6-Port | T-53A |
| | 6-Port | T-63A |
| Series 4 Cartridges | 2-Port | T-18A |
| M48 Cartridge Thread | 2-Port (Undercut) | T-18AU |
| 11,3 mm Valve Hex Size | 3-Port | T-19A T-19AU |
| 174 - 508 Nm Valve Installation Torque | 3-Port (Undercut) 4-Port | T-19AU T-24A |
| | 4-Port (Undercut) | T-24A T-24AU |
| | 4-Port | T-34A |
| | 4-Port (Dual path) | T-54AD |
| | 6-Port | T-54A |
| | 6-Port | T-64A |

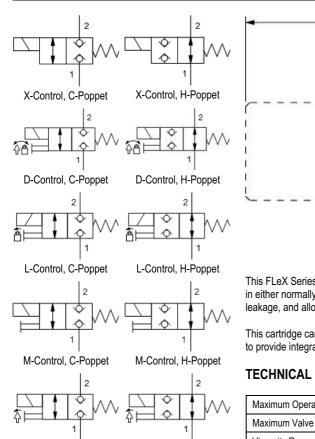




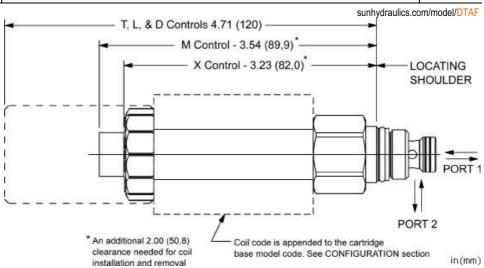
FLeX Series 2-way, direct-acting, solenoid-operated directional blocking poppet

SERIES P / CAPACITY: 28 L/min. / CAVITY: T-8A





T-Control, H-Poppet



This FLeX Series solenoid-operated 2-way, 2-position cartridge is a direct-acting directional poppet valve. Available in either normally open or normally closed configurations, these valves feature a pressure-balanced design, low leakage, and allow flow or blocking in both directions.

This cartridge can be installed directly into a cavity in the end of many of Sun's pilot operated and ventable valves to provide integrated pilot control.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar | |
|---|-----------------------|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar | |
| Viscosity Range | 2,8 - 380 cSt | |
| Response Time - Typical | 50 ms | |
| Switching Frequency | 15,000 max. cycles/hr | |
| U.S. Patent # | 10,302,201 | |
| Seal kit - Cartridge | Buna: 990608007 | |
| Seal kit - Cartridge | Viton: 990608006 | |

NOTES

M Manual Override

T-Control, C-Poppet

- For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.
- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

T Twist (Momentary) Manual Override

Model Code Example: DTAFXCN

| CONTROL | (X) POPPET CONFIGURATION | (C) SEAL MATERIAL | (N) COIL * |
|--------------------------------------|--------------------------|-------------------|---|
| X No Manual Override | C Normally Closed | N Buna-N | No coil |
| D Twist/Lock (Dual) Manual Override | H Normally Open | E EPDM | * Additional coil options are available |
| L Twist/Lock (Detent) Manual Overrid | le | V Viton | · · · · · · · · · · · · · · · · · · · |

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MODEL DTBF

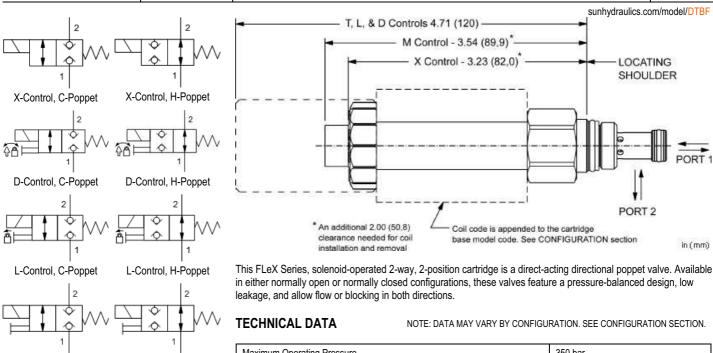
M-Control, H-Poppet

T-Control, H-Poppet

FLeX Series 2-way, direct-acting, solenoid-operated directional blocking poppet valve

CAPACITY: 34 L/min. / CAVITY: T-162A





| Maximum Operating Pressure | 350 bar | | |
|---|-----------------------|--|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar | | |
| Viscosity Range | 2,8 - 380 cSt | | |
| Response Time - Typical | 50 ms | | |
| Switching Frequency | 15,000 max. cycles/hr | | |
| U.S. Patent # | 10,302,201 | | |
| Seal kit - Cartridge | Buna: 990162007 | | |
| Seal kit - Cartridge | Viton: 990162006 | | |

NOTES

M Manual Override

M-Control, C-Poppet

T-Control, C-Poppet

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

T Twist (Momentary) Manual Override

Model Code Example: DTBFXCN

| CONTROL () | X) POPPET CONFIGURATION | (C) | SEAL MATERIAL | (N) | COIL * |
|---------------------------------------|-------------------------|-----|----------------|-----|---|
| X No Manual Override | C Normally Closed | | N Buna-N | | No coil |
| D Twist/Lock (Dual) Manual Override | H Normally Open | | E EPDM | | * Additional coil options are available |
| L Twist/Lock (Detent) Manual Override | | | V Viton | | |

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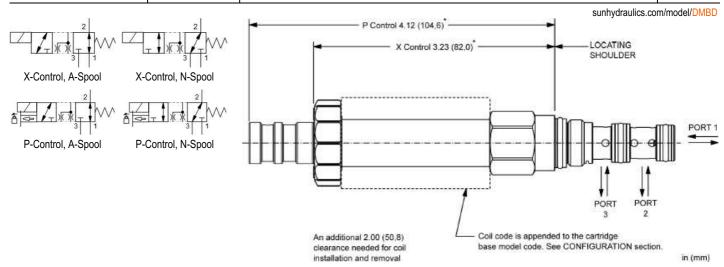


DMBD

FLeX Series 3-way, solenoid-operated directional spool valve - 3000 psi (210

CAPACITY: 15 L/min. / CAVITY: T-150A





This FLeX Series solenoid-operated 3-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 210 bar |
|---|-----------------------|
| Typical Valve Leakage at 110 SUS (24 cSt) from port 1 to port 3 | 50 cc/min.@210 bar |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990150007 |
| Seal kit - Cartridge | Viton: 990150006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DMBDXAN

(X) SPOOL CONFIGURATION (A) SEAL MATERIAL (N) COIL * CONTROL

X No Manual Override P Manual Pull Override N Normally Open 2 to 3, Closed 1 to 2 E EPDM * Additional coil options are available V Viton

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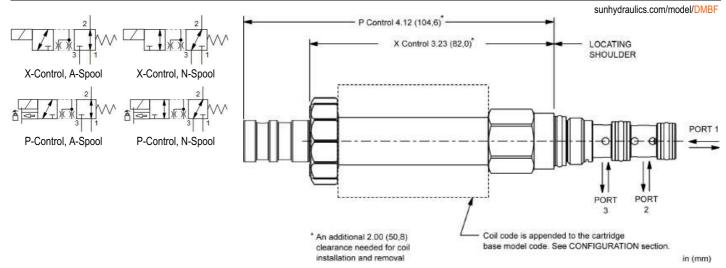




FLeX Series 3-way, solenoid-operated directional spool valve

CAPACITY: 15 L/min. / CAVITY: T-150A





This FLeX Series solenoid-operated 3-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar |
|---|-----------------------|
| Typical Valve Leakage at 110 SUS (24 cSt) Inlet on 1 | 164 cc/min.@350 bar |
| Typical Valve Leakage at 110 SUS (24 cSt) Inlet on 2 or 3 | 82 cc/min.@350 bar |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990150007 |
| Seal kit - Cartridge | Viton: 990150006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DMBFXAN

| CONTROL | (X) SPOOL CONFIGURATION (A) | SEAL MATERIAL (N) | COIL * |
|------------------------|---------------------------------------|-------------------|---|
| X No Manual Override | A Normally Open 1 to 2, Closed 1 to 3 | N Buna-N | No coil |
| P Manual Pull Override | N Normally Open 2 to 3, Closed 1 to 2 | E EPDM | * Additional coil options are available |
| | | V Viton | |

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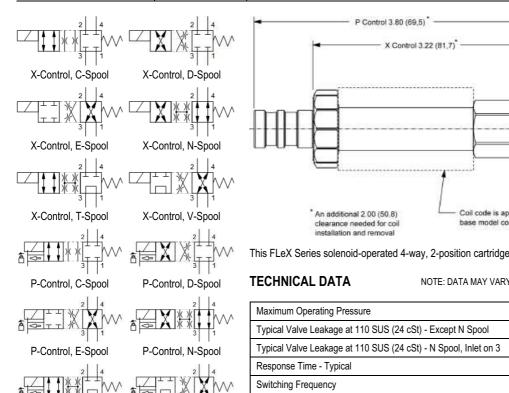


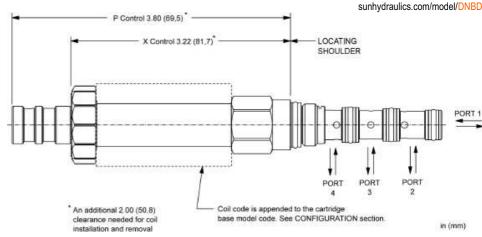
MODEL DNBD

FLeX Series 4-way, 2-position, solenoid-operated directional spool valve - 3000 psi (210 bar)

CAPACITY: 15 L/min. / CAVITY: T-30A







This FLeX Series solenoid-operated 4-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 210 bar |
|---|-----------------------|
| Typical Valve Leakage at 110 SUS (24 cSt) - Except N Spool | 30 cc/min.@210 bar |
| Typical Valve Leakage at 110 SUS (24 cSt) - N Spool, Inlet on 3 | 80 cc/min.@210 bar |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990030007 |
| Seal kit - Cartridge | Viton: 990030006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DNBDXCN

(X) SPOOL CONFIGURATION (C) SEAL MATERIAL CONTROL (N) COIL *

X No Manual Override P Manual Pull Override

P-Control, T-Spool

C Closed, Shift to Through Closed, Shift to Cross

N Buna-N **V** Viton

P-Control, V-Spool

E Cross, Shift to Closed

N Through, Shift to Cross

Tandem, Shift to Through Т

V Cross, Shift to Tandem

* Additional coil options are available

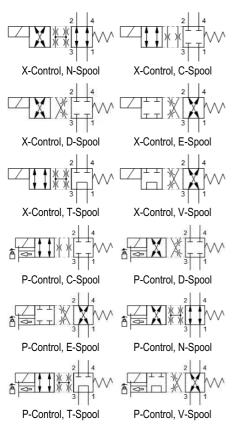
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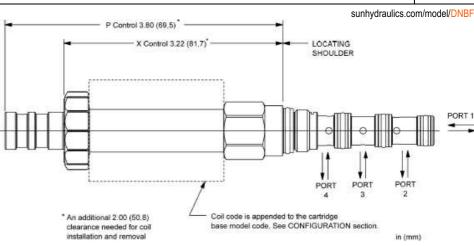


MODEL DNBF

FLeX Series 4-way, 2-position, solenoid-operated directional spool valve CAPACITY: 15 L/min. / CAVITY: T-30A







This FLeX Series solenoid-operated 4-way, 2-position cartridge is a direct-acting, balanced spool directional valve.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar |
|---|-----------------------|
| Typical Valve Leakage at 110 SUS (24 cSt) - Except N Spool | 66 cc/min.@350 bar |
| Typical Valve Leakage at 110 SUS (24 cSt) - N Spool, Inlet on 3 | 115 cc/min.@350 bar |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990030007 |
| Seal kit - Cartridge | Viton: 990030006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DNBFXNN

| CONTROL | (X) SPO | OL CONFIGURATION | (N) | SEAL MATERIAL | (N) | COIL * |
|------------------------|---------|--------------------------|-----|----------------|-----|---|
| X No Manual Override | N T | hrough, Shift to Cross | | N Buna-N | | No coil |
| P Manual Pull Override | C | Closed, Shift to Through | | V Viton | | * Additional coil options are available |
| | D (| Nagad Chiff to Cross | | | | |

- E Cross, Shift to Closed
- T Tandem, Shift to Through
- V Cross, Shift to Tandem

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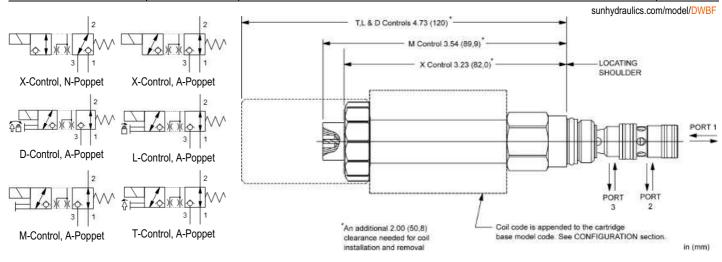


MODEL **DWBF**

FLeX Series 3-way, direct-acting, solenoid-operated directional blocking poppet valve

CAPACITY: 23 L/min. / CAVITY: T-150A





This FLeX Series solenoid-operated 3-way, 2-position cartridge is a direct-acting, poppet-style directional valve.

Due to the poppet style construction, this valve has extremely low leakage.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar |
|---|-----------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar |
| Response Time - Typical | 50 ms |
| Switching Frequency | 10,000 max. cycles/hr |
| U.S. Patent # | 10,302,201 |
| Seal kit - Cartridge | Buna: 990150007 |
| Seal kit - Cartridge | Viton: 990150006 |

NOTES

M Manual Override

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.
- Sun Hydraulics bases solenoid valve performance data on testing at maximum ambient temperature (50° C) and 15% undervoltage at stabilized current (580 mA). This ensures that our data represents valve performance under worst-case conditions.

CONFIGURATION OPTIONS

T Twist (Momentary) Manual Override

Model Code Example: DWBFXNN

| CONTROL | (X) | POPPET CONFIGURATION (N | N) | SEAL MATERIAL | (N) | COIL * |
|---------------------------------------|-----|---------------------------------------|----|----------------|-----|---|
| X No Manual Override | | N Normally Open 2 to 3, Closed 1 to 2 | | N Buna-N | | No coil |
| D Twist/Lock (Dual) Manual Override | | A Normally Open 1 to 2, Closed 2 to 3 | | E EPDM | _ | * Additional coil options are available |
| L Twist/Lock (Detent) Manual Override | | | | V Viton | | |

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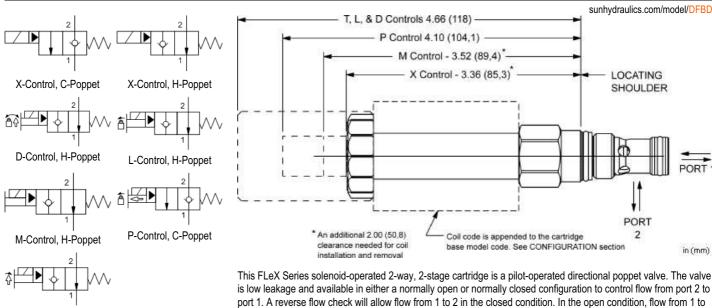


MODEL **DFBD**

FLeX Series 2-way, 2-stage, solenoid-operated directional poppet valve with reverse flow check - flow 2-1, 3000 psi (210 bar)

CAPACITY: 40 L/min. / CAVITY: T-162A





TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 210 bar | | | |
|---|-----------------------|--|--|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@210 bar | | | |
| Check Cracking Pressure | 3,5 bar | | | |
| Viscosity Range | 2,8 - 380 cSt | | | |
| Response Time - Typical | 50 ms | | | |
| Switching Frequency | 15,000 max. cycles/hr | | | |
| Seal kit - Cartridge | Buna: 990162007 | | | |
| Seal kit - Cartridge | Viton: 990162006 | | | |

NOTES

M Manual OverrideP Manual Pull Override

T-Control, H-Poppet

• Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.

2 will cause the valve to auto-close and pilot flow will pass from 1 to 2.

• An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

T Twist (Momentary) Manual Override

Model Code Example: DFBDXCN

| CONTROL | (X) POPPET CONFIGURATION | (C) | SEAL MATERIAL | (N) | COIL * | |
|---------------------------------------|--------------------------|-----|---------------|-----|---|---|
| X No Manual Override | C Normally Closed | | N Buna-N | | No coil | l |
| D Twist/Lock (Dual) Manual Override | H Normally Open | | E EPDM | | * Additional coil options are available | |
| L Twist/Lock (Detent) Manual Override | | | V Viton | | | |

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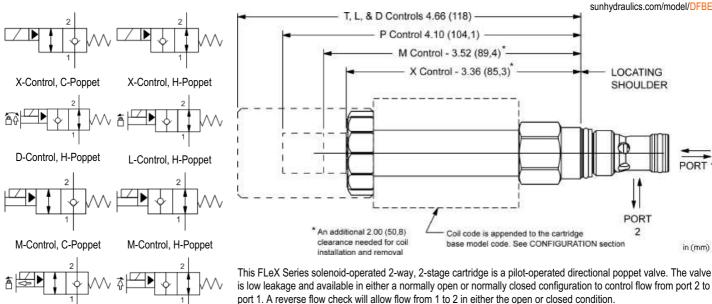
MODEL DFBE

T-Control, H-Poppet

FLeX Series 2-way, 2-stage, solenoid-operated directional poppet valve with reverse flow check - flow 2-1, 3000 psi (210 bar)

CAPACITY: 40 L/min. / CAVITY: T-162A





is low leakage and available in either a normally open or normally closed configuration to control flow from port 2 to port 1. A reverse flow check will allow flow from 1 to 2 in either the open or closed condition.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 210 bar | | | |
|---|-----------------------|--|--|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@210 bar | | | |
| Check Cracking Pressure | 3,5 bar | | | |
| Viscosity Range | 2,8 - 380 cSt | | | |
| Response Time - Typical | 50 ms | | | |
| Switching Frequency | 15,000 max. cycles/hr | | | |
| Seal kit - Cartridge | Buna: 990162007 | | | |
| Seal kit - Cartridge | Viton: 990162006 | | | |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DFBEXCN

(N) COIL * CONTROL (X) POPPET CONFIGURATION (C) SEAL MATERIAL

> C Normally Close H Normally Open

X No Manual Override

P-Control, C-Poppet

- D Twist/Lock (Dual) Manual Override
- L Twist/Lock (Detent) Manual Override
- M Manual Override
- P Manual Pull Override
- T Twist (Momentary) Manual Override

E EPDM V Viton

Additional coil options are available

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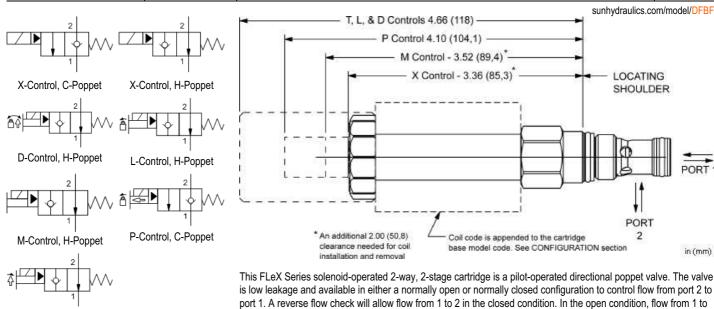




FLeX Series 2-way, 2-stage, solenoid-operated directional poppet valve with reverse flow check - flow 2-1

CAPACITY: 40 L/min. / CAVITY: T-162A





TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar |
|---|-----------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar |
| Check Cracking Pressure | 3,5 bar |
| Viscosity Range | 2,8 - 380 cSt |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990162007 |
| Seal kit - Cartridge | Viton: 990162006 |

NOTES

M Manual OverrideP Manual Pull Override

T-Control, H-Poppet

• Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.

2 will cause the valve to auto-close and pilot flow will pass from 1 to 2.

• An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DFBFXCN

| CONTROL (X) | POPPET CONFIGURATION | (C) | SEAL MATERIAL | (N) | COIL * |
|---------------------------------------|----------------------|-----|---------------|-----|---|
| X No Manual Override | C Normally Closed | | N Buna-N | | No coil |
| D Twist/Lock (Dual) Manual Override | H Normally Open | | E EPDM | | * Additional coil options are available |
| I Twist/Lock (Detent) Manual Override | | | V Viton | | |

T Twist (Momentary) Manual Override

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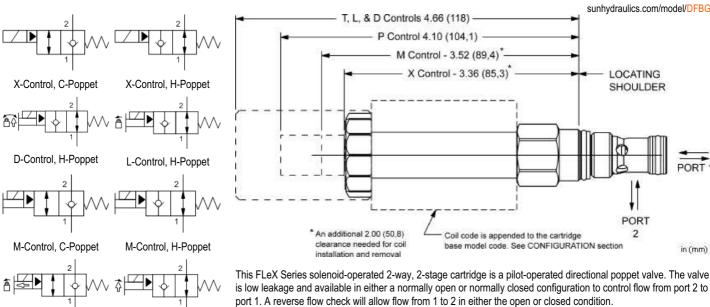
MODEL DFBG

T-Control, H-Poppet

FLeX Series 2-way, 2-stage, solenoid-operated directional poppet valve with reverse flow check - flow 2-1

CAPACITY: 40 L/min. / CAVITY: T-162A





TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar |
|---|-----------------------|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar |
| Check Cracking Pressure | 3,5 bar |
| Viscosity Range | 2,8 - 380 cSt |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990162007 |
| Seal kit - Cartridge | Viton: 990162006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: DFBGXCN

(N) COIL * CONTROL (X) POPPET CONFIGURATION (C) SEAL MATERIAL C Normally Close

H Normally Open

X No Manual Override

P-Control, C-Poppet

- D Twist/Lock (Dual) Manual Override
- L Twist/Lock (Detent) Manual Override
- M Manual Override
- P Manual Pull Override
- T Twist (Momentary) Manual Override

- **E** EPDM V Viton

Additional coil options are available

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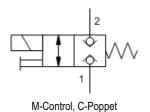


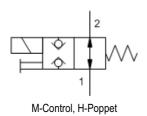


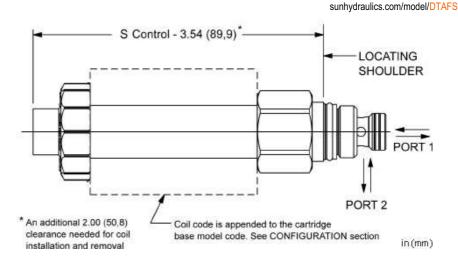
FLeX Series 2-way, soft shift, solenoid-operated directional poppet valve - pilot capacity

SERIES P / CAPACITY: 28 L/min. / CAVITY: T-8A









This FLeX Series, solenoid-operated 2-way, 2-position cartridge is a direct-acting directional poppet valve with a soft shift feature. Available in either normally open or normally closed configurations, these valves feature a pressure-balanced design, low leakage, and allow flow or blocking in both directions.

This cartridge can be installed directly into a cavity in the end of many of Sun's pilot operated and ventable valves to provide integrated pilot control.

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

| Maximum Operating Pressure | 350 bar | | |
|---|-----------------------|--|--|
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@350 bar | | |
| Manual Override Force Requirement | 66 N/100 bar @ Port 1 | | |
| Viscosity Range | 2,8 - 380 cSt | | |
| Seal kit - Cartridge | Buna: 990608007 | | |
| Seal kit - Cartridge | Viton: 990608006 | | |

CONFIGURATION OPTIONS

Model Code Example: DTAFSCN

POPPET CONFIGURATION

(C) SEAL MATERIAL

(N) COIL *

C Normally ClosedH Normally Open

N Buna-N
V Viton

No co

* Additional coil options are available

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www.sunhydraulics.com

Sun Hydraulics Headquarters Sarasota, Florida USA (1) 941 362 1200 suninfo@sunhydraulics.com

Sun Hydraulics Korea Corp. Incheon Korea +82 3281 31350 sales@sunhydraulics.co.kr Sun Hydraulics Limited Coventry England +44 2476 217 400 sales@sunuk.com

Sun Hydraulics China Co. Ltd. Shanghai P.R. China +86 2151 162862 sunchinainfo@sunhydraulics.com Sun Hydraulik GmbH Erkelenz Germany +49 2431 80910 sales@sunhydraulik.de

Sun Hydraulics Corp. (India) Bangalore India +91 8028 456325 sunindiainfo@sunhydraulics.com Enovation Controls, LLC A Sun Hydraulics Company Tulsa, OK USA Ph: (1) 918-317-4100

High Country Tek, Inc A Sun Hydraulics Company Nevada City, California USA (1) 530 265 3236 info@HCTcontrols.com