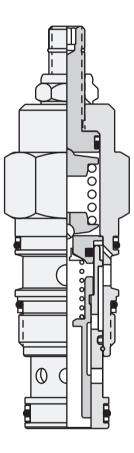
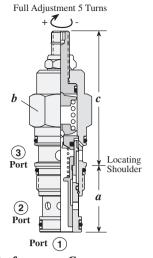
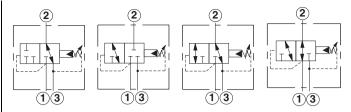
Directional Cartridge Valves

| | Cartridge Type | Page |
|------------------------------------------------|------------------------------------------------------------------------------|------|
| 03 | 2-way and 3-way, with Internal Drain to Port 3 | 118 |
| 2 (4) | 2-way and 3-way, with Drain to Port 4 | 119 |
| © | 2-way and 3-way Direct Acting, Internal Drain to Port 3 | 120 |
| 0 0 | 2-way and 3-way, Direct Acting, Drain to Port 4 | 121 |
| | 2-way, Direct Acting, Sealed Pilot, Pilot-to-shift | 122 |
| © (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 2-way and 3-way, Vent-to-Operate, with Integral T-8A Control Cavity | 123 |
| (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | 2-way and 3-way, Vent-to-operate, with Integral T-8A Control Cavity | 124 |
| | 3-way, 2-position Vent-to-shift, Diverter, Normally Closed | 125 |
| ************************************** | 3-way, 2-position Vent-to-shift, Diverter, Normally Open | 126 |
| ② (3) (4) (1) (1) (1) | 2-way Poppet, with Integral T-8A Control Cavity, Control Port 1 to Port 2 | 127 |
| | 2-way Poppet, with Integral T-8A Control Cavity, Control Port 2 to Port 1 | 128 |
| | 3-position, 4-way, Pilot-to-shift | 129 |
| | 2-position, 4-way, Pilot-to-shift, Detented | 130 |



2-WAY AND 3-WAY, WITH INTERNAL DRAIN TO PORT 3



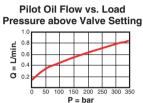


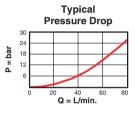
DPBA, DPCA DPBB, DPCB DPBC, DPCC DPBD, DPCD

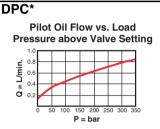
| <i>a</i> . | Typical | a . | | | | с | Installation | |
|------------|-------------------------|---------|------|------|------|------|--------------|----------------|
| Capacity | Cartridge Model Code | Cavity | а | a b | L | С | K | Torque (Nm) |
| 28 L/min. | DPBA – LAN | T - 11A | 35,1 | 22,2 | 63,5 | 67,6 | 69,9 | 45 - 50 |
| 60 L/min. | DPCA - LAN | T - 2A | 35,1 | 28,6 | 71,4 | 73,2 | 77,7 | 60 - 70 |

Performance Curves

Typical Pressure Drop







Maximum operating pressure = 350 bar.

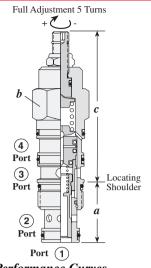
DPB*

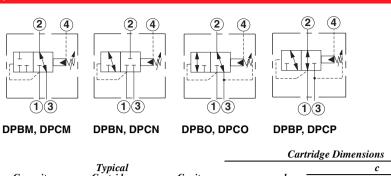
- Maximum valve leakage at 24 cSt = 15 cc/min. at 70 bar.
- Control pilot flow = DPBA, DPBB, DPBC, DPBD: 0,11 0,16 L/min.; DPCA, DPCB, DPCC, DPCD: 0,16 0,25 L/min.
- Maximum pressure at port 3 should be limited to 210 bar. This is due to fatigue strength limits not hydraulic operating limits.
- Pressure at port 3 is directly additive to the setting of the valve. Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Direct acting and pilot operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- These valves are not bistable; it is capable of modulating between the two positions shown.

OPTION ORDERING INFORMATION

Nominal Version Control** Adjustment Range Seal Material Capacity **B** 28 L/min. 2-Way, Pilot Operated, 7 - 210 bar N Buna-N Standard Screw with Internal Drain to Adjustment Standard set at 70 bar Port 3, Normally Open Viton 3,5 - 105 bar C 60 L/min. C* Tamper Resistant **B** 2-Way, Pilot Operated, Factory Set Standard set at 70 bar with Internal Drain to 1,7 - 55 bar Port 3, Normally Closed Handknob with Lock Knob Standard set at 28 bar **C** 3-Way, 2-Position, Pilot Operated, with * Special setting required. 1,7 - 28 bar Internal Drain to Specify at time of order. Standard set at 14 bar to Port 3, Port 1 Blocked, 2 to 3 Open W 10,5 - 315 bar Standard set at 70 bar 3-Way, 2-Position, Consult the Sun website C 10.5 - 420 bar Pilot Operated, with for our most recent and Standard set at 70 bar Internal Drain to Port 3. Port 3 Blocked, 1 to 2 Open ** See page 178 complete information on the full Corrosion Resistant line of products. on Control Options

2-WAY AND 3-WAY, WITH DRAIN TO PORT 4

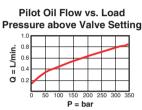


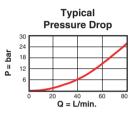


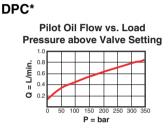
| | Typical | | | _ | | c | | Installation |
|-----------|-------------------------|---------|------|------|------|------|------|----------------|
| Capacity | Cartridge Model Code | Cavity | а | b | L | С | K | Torque (Nm) |
| 28 L/min. | DPBM- LAN | T - 21A | 35,1 | 22,2 | 78,5 | 82,6 | 84,8 | 45 - 50 |
| 60 L/min. | DPCM-LAN | T - 22A | 35.1 | 28.6 | 87.4 | 88.9 | 93.7 | 60 - 70 |

Performance Curves

Typical Pressure Drop





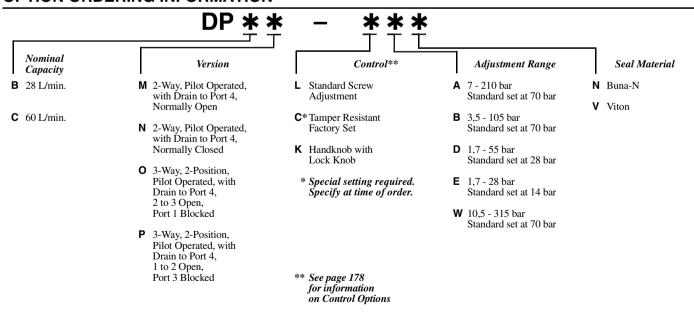


- Maximum operating pressure = 350 bar.
- Maximum valve leakage at 24 cSt = 15 cc/min. at 70 bar.
- Control pilot flow = DPBM, DPBN, DPBO, DPBP: 0,11 0,16 L/min.; DPCM, DPCN, DPCO, DPCP: 0,16 0,25 L/min.
- Maximum pressure at port 3 should be limited to 210 bar. This is due to fatigue strength limits not hydraulic operating limits.
- Pressure at port 4 is directly additive to the setting of the valve.
- Port 3 can be used as a work port.

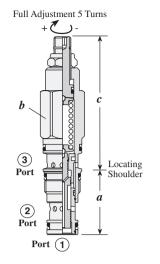
DPB*

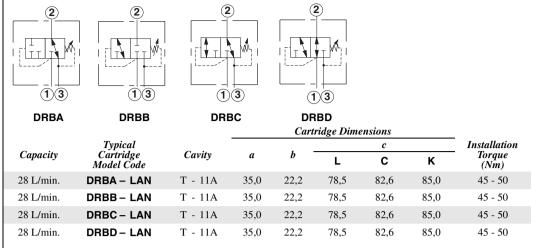
- Port 4 can be blocked to prevent the cartridge from shifting.
- Direct acting and pilot operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- These valves are not bistable; it is capable of modulating between the two positions shown.

OPTION ORDERING INFORMATION



2-WAY AND 3-WAY DIRECT ACTING, INTERNAL DRAIN TO PORT 3



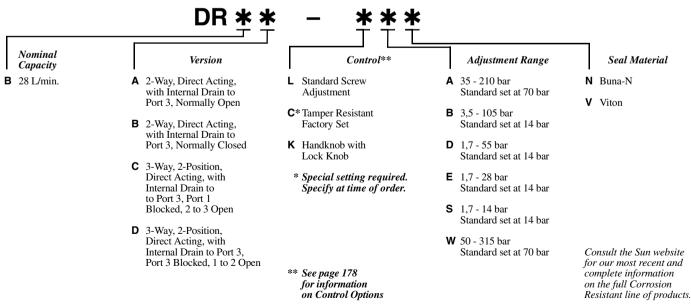


Performance Curves

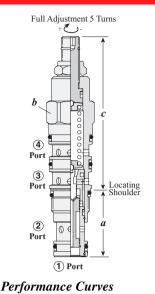
DRBA DRBB DRBC DRBD Typical Pressure Drop 20 20 P = bar P = bar P = bar P = bar 15 15 15 15 10 10 Flow = L/min. Flow = L/minFlow = L/min. Flow = L/min.

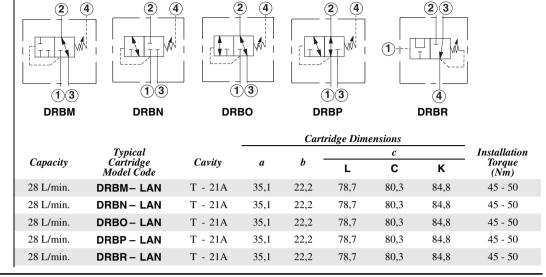
- Maximum operating pressure = 350 bar.
- Maximum combined valve leakage (ports 2 and 3) = 30 cc/min. at 70 bar.
- Pressure at port 3 is directly additive to the setting of the valve. Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Pilot pressure at port 3 is limited to 210 bar.
- Direct acting and pilot operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- Because of their direct acting design, these cartridges feature low internal leakage and low pilot flow consumption.
- These valves are not bistable; it is capable of modulating between the two positions shown.

OPTION ORDERING INFORMATION



2-WAY AND 3-WAY DIRECT ACTING, DRAIN TO PORT 4

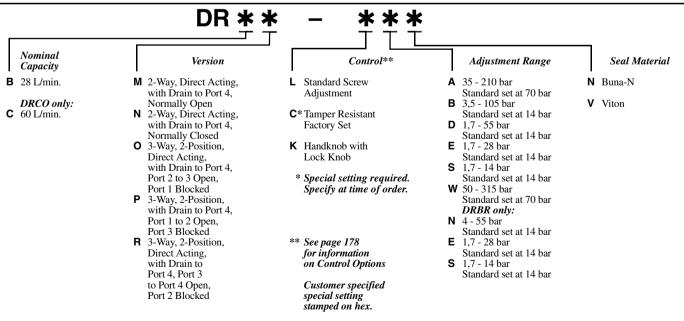




| DRBM | DRBN | DRBO | DRBP | DRBR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| | | Typical Pressure Drop | | |
| 25 Port 2 to Port 3 to Por | 25 20 80 15 81 10 6 | 25 Port 2 to Port 3 to Port 1 to Port 2 to Port 2 to Port 3 | 25 Port 1 to Port 2 To Port 3 To Port 4 To Port 5 To Por | 15 Flow 3 to 4 Flow 2 to 3 |
| 0 10 20 30 40 50 Flow = L/min. | 0 10 20 30 40 50 Flow = L/min. | 0 10 20 30 40 50 Flow = L/min. | 0 10 20 30 40 50 Flow = L/min. | 0 5 10 15 20 25 30 Flow = L/min. |

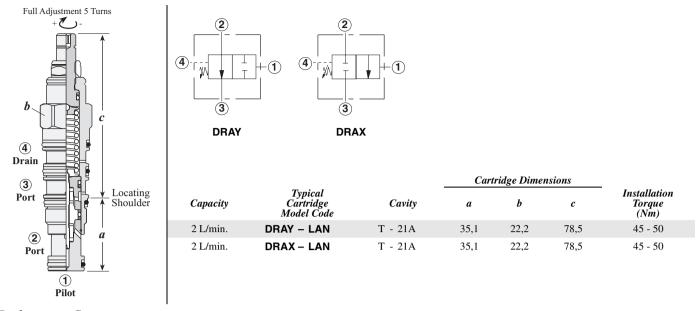
- Maximum operating pressure = 350 bar.
- Maximum combined valve leakage (ports 2, 3, and 4) = 30 cc/min. at 70 bar.
- Maximum pressure at port 3 should be limited to 210 bar. This is due to fatigue strength limits not hydraulic operating limits.
- Port 3 can be used as a work port.
- Pressure at port 4 is directly additive to the setting of the valve.
- Because of their direct acting design, these cartridges feature low internal leakage and low pilot flow consumption.
- Direct acting and pilot operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- DRBR: 55 bar is the highest setting possible for this valve. The flow path between ports 2 and 3 is bidirectional.

OPTION ORDERING INFORMATION



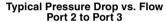
 ${\it Visit} \ \underline{{\it www.sunhydraulics.com}} \ for \ current \ list \ pricing \ and \ complete \ technical \ information \ on \ all \ Sun \ products.$

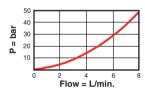
2-WAY, DIRECT ACTING, SEALED PILOT, PILOT-TO-SHIFT



Performance Curves

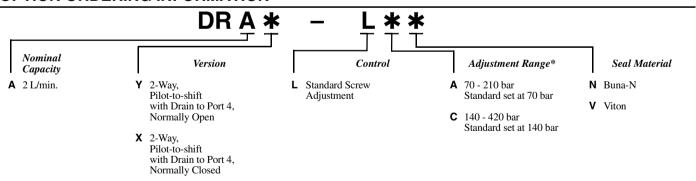
DRAY, DRAX



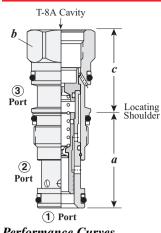


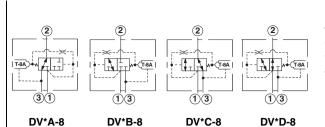
- Maximum operating pressure = 350 bar.
- Reseat = > 85% of set pressure.
- The pilot area (port 1) and the spring chamber drain (port 4) are positively sealed.
- The valve is designed not to modulate and is the equivalent of a hydraulic pressure switch.
- There is spool leakage at 0,6 cc/min. at 70 bar between work ports 2 and 3.

OPTION ORDERING INFORMATION



2-WAY AND 3-WAY, VENT-TO-OPERATE WITH INTEGRAL T-8A CONTROL CAVIT





The -8 control option allows the pilot control valve to be incorporated directly into the end of the cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges on page 141.

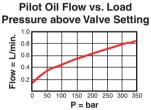
| Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) |
|-----------|------------------------------------|--------|------|------|------|--------------------------------|
| 28 L/min. | DVB* - 8FN | T-11A | 35,1 | 22,2 | 35,1 | 45 - 50 |
| 60 L/min. | DVC* - 8FN | T-2A | 35,1 | 28,6 | 35,1 | 60 - 70 |

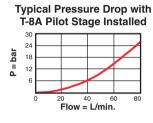
Performance Curves

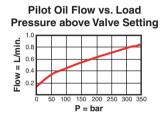
DVB*-8 DVC*-8

T-8A Pilot Stage Installed P = bar 18 12 Flow = L/min.

Typical Pressure Drop with

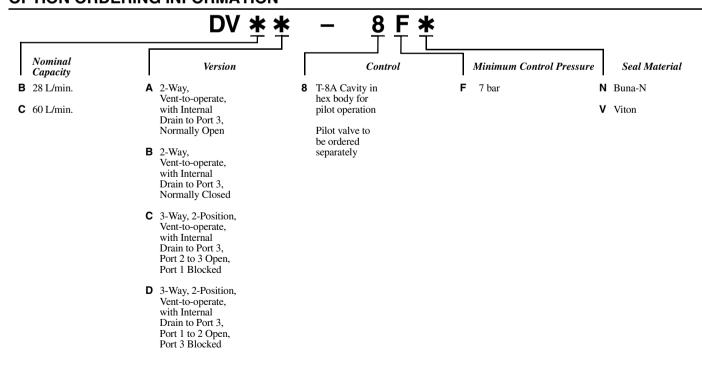






- Maximum operating pressure = 350 bar.
- Maximum valve leakage at 24 cSt = 30 cc/min. at 70 bar.
- Control pilot flow = DVBA-8, DVBB-8, DVBC-8, DVBD-8: 0,11 0,16 L/min.; DVCA-8, DVCB-8, DVCC-8, DVCD-8: 0,16 - 0,25 L/min.
- There must be a pressure source at port 1, relative to port 3, to shift the valve.
- Pressure at port 3 may oppose the opening of the valve. Because of this, port 3 may not be useable as a work port in your circuit. If this is a consideration, the 4 port version of this valve may be a solution.
- Pressure at port 3 is limited to 210 bar.
- These valves are not bistable; they are capable of modulating between the two positions shown.
- The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.

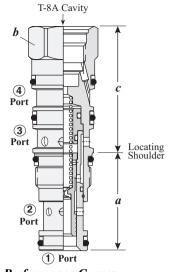
OPTION ORDERING INFORMATION

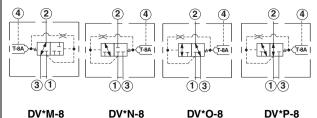


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Int'l Shortcut Catalogue #999-901-312 123 SUL

2-WAY AND 3-WAY, VENT-TO-OPERATE, WITH INTEGRAL T-8A CONTROL CAVITY



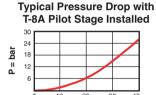


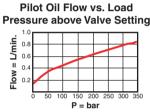
The -8 control option allows the pilot control valve to be incorporated directly into the end of the cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges on page 141.

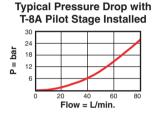
| Capacity | | | Cart | ridge Dime | | |
|-----------|------------------------------------|--------|------|------------|------|--------------------------------|
| | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) |
| 28 L/min. | DVB* - 8FN | T-21A | 35,1 | 22,2 | 42,9 | 45 - 50 |
| 60 L/min. | DVC* - 8FN | T-22A | 35,1 | 28,6 | 50,8 | 60 - 70 |

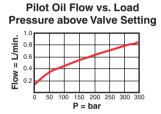
Performance Curves

DVB*-8 DVC*-8







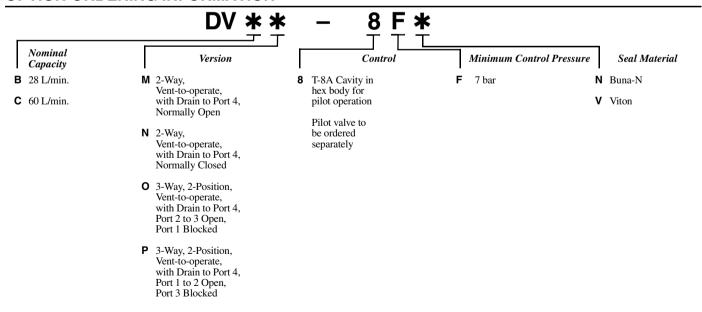


- Maximum operating pressure = 350 bar.
- Maximum leakage at 24 cSt = 30,0 cc/min. at 70 bar.
- Control pilot flow at opening = DVB*-8, DVC*-8: 0,11 0,16 L/min.
- Port 3 can be used as a work port.

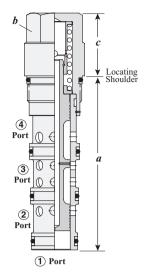
Flow = L/min.

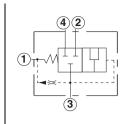
- The flow path between port 2 and port 3 is bidirectional.
- Pressure at port 3 is limited to 210 bar.
- These valves are not bistable; it is capable of modulating between the two positions shown.
- There must be a pressure source at port 1, relative to port 4, to shift the valve.
- The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.

OPTION ORDERING INFORMATION



3-WAY, 2-POSITION VENT-TO-SHIFT, DIVERTER, NORMALLY CLOSED

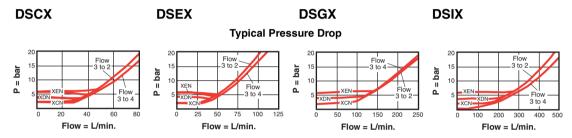




| | | | · · · · · · | inge zimen. | | |
|------------|------------------------------------|---------|-------------|-------------|------|--------------------------------|
| Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) |
| 60 L/min. | DSCX - XEN | T - 31A | 84,8 | 22,2 | 30,2 | 45 - 50 |
| 120 L/min. | DSEX - XEN | T - 32A | 92,2 | 28,6 | 33,3 | 60 - 70 |
| 240 L/min. | DSGX - XEN | T - 33A | 114,6 | 31,8 | 41,4 | 200 - 215 |
| 480 L/min. | DSIX - XEN | T - 34A | 139,7 | 41,3 | 53,8 | 465 - 500 |

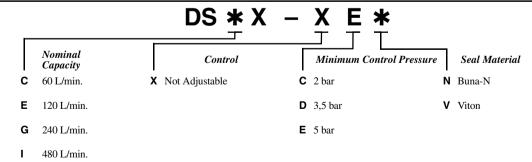
Cartridge Dimensions

Performance Curves



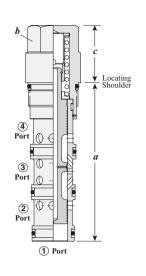
- Maximum operating pressure = 350 bar.
- Pressure compensated vent flow = DSCX, DSEX: 0,38 L/min.; DSGX, DSIX: 0,60 L/min.
- There must be a pressure source at port 3, relative to port 1, to shift the valve.
- The pressure at port 3 must be greater than port 1 and is dependant on the minimum control pressure selected.
- One application of this valve is to bypass divider/combiner valves in a limited-slip tractive circuit. Closed, the oil must go through the divider/combiner valves. Open, there is a large path around the divider/combiner valves for efficient high speed operation.
- One pilot valve may be used; to vent multiple diverter valves if blocking checks are used at port 1of each diverter. If blocking checks are not used, there will be interaction between high and low pressure legs of the circuits.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics.
- The valve is not bistable; it is capable of modulation between the two positions shown.

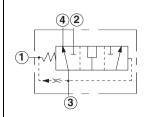
OPTION ORDERING INFORMATION



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3-WAY, 2-POSITION, VENT-TO-SHIFT, DIVERTER, NORMALLY OPEN

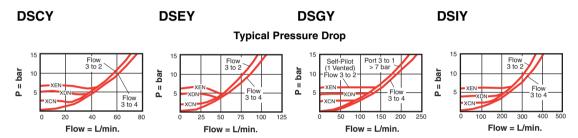




| | | | Carn | uige Dimens | | |
|---------------------|------------------------------------|---------|-------|-------------|------|--------------------------------|
| Nominal Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) |
| 60 L/min. | DSCY - XEN | T - 31A | 84,8 | 22,2 | 30,2 | 45 - 50 |
| 120 L/min. | DSEY - XEN | T - 32A | 92,2 | 28,6 | 33,3 | 60 - 70 |
| 240 L/min. | DSGY - XEN | T - 33A | 114,6 | 31,8 | 41,4 | 200 - 215 |
| 480 L/min. | DSIY - XEN | T - 34A | 139,7 | 41,3 | 53,8 | 465 - 500 |

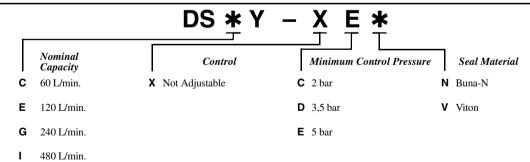
Cartridge Dimensions

Performance Curves

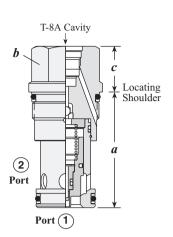


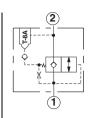
- Maximum operating pressure = 350 bar.
- Pressure compensated vent flow = DSCY, DSEY: 0,38 L/min.; DSGY, DSIY: 0,60 L/min.
- The pressure at port 3 must be greater than port 1 and is dependant on the minimum control pressure selected.
- There must be a pressure source at port 3, relative to port 1, to shift the valve.
- One application of this valve is to be used in pairs to select between 2 motors or pumps.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics
- The valve is not bistable; it is capable of modulation between the two positions shown.

OPTION ORDERING INFORMATION



2-WAY POPPET, WITH INTEGRAL T-8A CONTROL CAVITY, CONTROL PORT 1 TO PORT 2

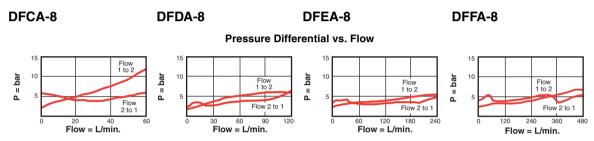




The -8 control option allows the pilot control valve to be incorporated directly into the end of the cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges on page 141.

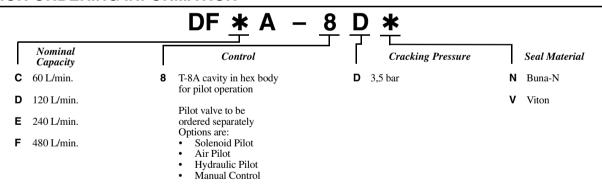
| | | | Cartridge Dimensions | | | | |
|------------|------------------------------------|---------|----------------------|------|------|--------------------------------|--|
| Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) | |
| 60 L/min. | DFCA - 8DN | T - 13A | 35,1 | 22,2 | 19,1 | 45 - 50 | |
| 120 L/min. | DFDA – 8DN | T - 5A | 41,1 | 28,6 | 17,5 | 60 - 70 | |
| 240 L/min. | DFEA – 8DN | T - 16A | 62,0 | 31,8 | 24,6 | 200 - 215 | |
| 480 L/min. | DFFA – 8DN | T - 18A | 79,5 | 41,3 | 30,2 | 465 - 500 | |

Performance Curves

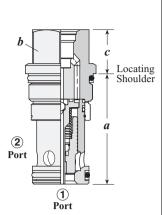


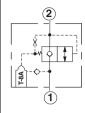
- Maximum operating pressure = 350 bar.
- Maximum main stage valve leakage at 24 cSt = 0,6 cc/min. at 350 bar (for complete assembly, port valve leakage must be considered).
- The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.

OPTION ORDERING INFORMATION



2-WAY POPPET, WITH INTEGRAL T-8A CONTROL CAVITY, CONTROL PORT 2 TO PORT 1





The -8 control option allows the pilot control valve to be incorporated directly into the end of the cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include electro-proportional, solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges on page 141.

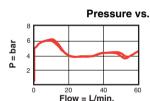
| | | | Cartridge Dimensions | | | | |
|------------|------------------------------------|---------|----------------------|------|------|--------------------------------|--|
| Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) | |
| 60 L/min. | DFCB - 8DN | T - 13A | 35,1 | 22,2 | 19,1 | 45 - 50 | |
| 120 L/min. | DFDB - 8DN | T - 5A | 41,1 | 28,6 | 17,5 | 60 - 70 | |
| 240 L/min. | DFEB – 8DN | T - 16A | 62,0 | 31,8 | 24,6 | 200 - 215 | |

DFEB-8

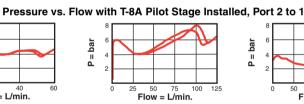
Performance Curves

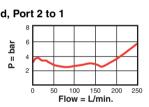
Pressure vs. Flow with T-8A Pilot Stage Installed, Port 1 to 2

DFDB-8



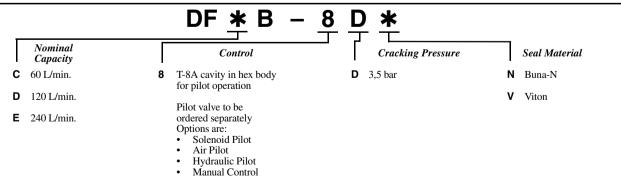
DFCB-8



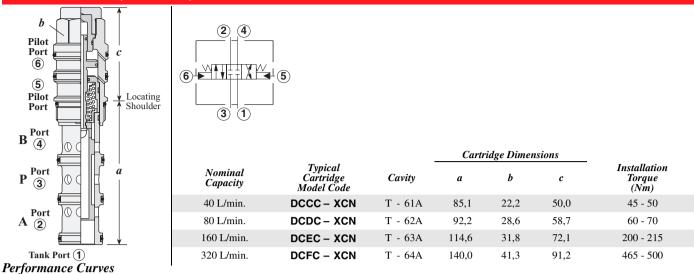


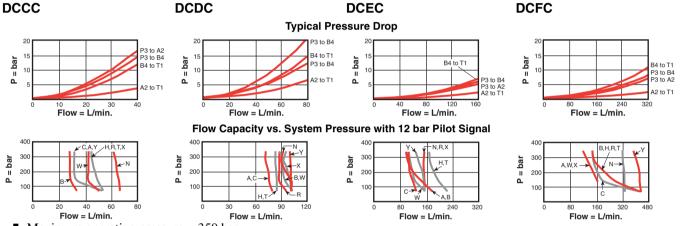
- Maximum operating pressure = 350 bar.
- Maximum main stage valve leakage at 24 cSt = 0,6 cc/min. at 350 bar (for complete assembly, port valve leakage must be considered).
- The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.

OPTION ORDERING INFORMATION



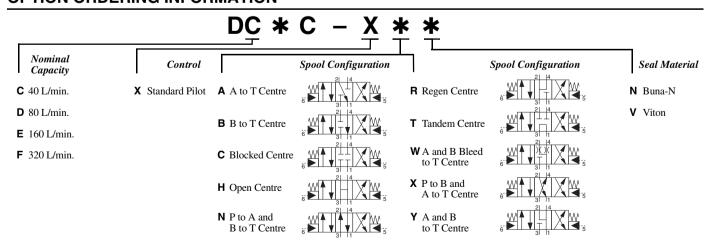
3-POSITION, 4-WAY, PILOT-TO-SHIFT



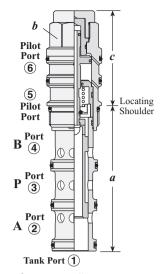


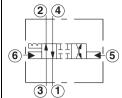
- Maximum operating pressure = 350 bar.
- Maximum valve leakage at 24 cSt = 30 cc/min. at 70 bar.
- Minimum pilot pressure required to shift valve = DCCC: 12 bar, DCDC: 10,5 bar, DCEC, DCFC: 9 bar.
- Pilot volume displacement = DCCC: 0,33 cc.; DCDC: 0,98 cc.; DCEC: 2,8 cc.; DCFC: 6,9 cc. All ports will accept 350 bar, including the x and y pilot ports (port 5 and port 6).
- The pilot ports, 5 and 6 are positively sealed from the work ports.
- The reason for the different capacities, or performance limits, for the different spool configurations are flow forces. Flow forces are proportional to flow and pressure drop. Typically, they resist the opening of a passage. Spool configurations that open passages as they spring centre are the most susceptible. If the flow forces due to the flow and pressure conditions exceed the centring spring force the valve may not shift completely. Higher flows may be used at lower pressures.

OPTION ORDERING INFORMATION



2-POSITION, 4-WAY, PILOT-TO-SHIFT, DETENTED





| | | | Cartr | | | |
|---------------------|------------------------------------|---------|-------|------|------|--------------------------------|
| Nominal Capacity | Typical Cartridge Model Code | Cavity | а | b | c | Installation Torque (Nm) |
| 40 L/min. | DCCD - XCN | T - 61A | 85,1 | 22,2 | 50,0 | 45 - 50 |
| 80 L/min. | DCDD - XCN | T - 62A | 92,2 | 28,6 | 58,7 | 60 - 70 |
| 160 L/min. | DCED - XCN | T - 63A | 114,6 | 31,8 | 72,1 | 200 - 215 |
| 320 L/min. | DCFD - XCN | T - 64A | 140,0 | 41,3 | 91,2 | 465 - 500 |

Performance Curves

DCCD DCDD DCED DCFD Typical Pressure Drop P = bar P = bar P = bar P = bar P3 to A2 or B4 B4 to T1 P3 to B4 P3 to A2 A2 to T1 A2 to T1 80 160 240 Flow = L/min. 10 20 30 Flow = L/min. 40 80 120 Flow = L/min. 20 40 60 Flow = L/min.

See www.sunhydraulics.com for additional performance curves.

- Maximum operating pressure = 350 bar.
- Maximum valve leakage at 24 cSt = 30 cc/min. at 70 bar.
- Minimum pilot pressure required to shift valve = DCCD: 12 bar, DCDD: 10,5 bar, DCED, DCFD: 9 bar.
- Pilot volume displacement = DCCD: 0,82 cc,; DCDD: 2,0 cc,; DCED: 5,6 cc,; DCFD: 14,0 cc.
- All ports will accept 350 bar, including the x and y pilot ports (port 5 and port 6).
- The pilot ports, 5 and 6, are positively sealed from the work ports.

OPTION ORDERING INFORMATION

