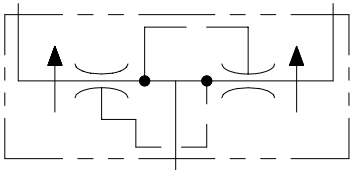


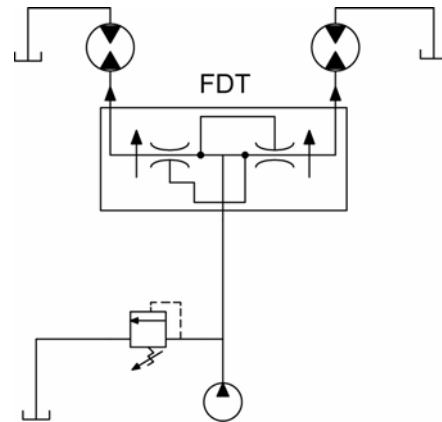
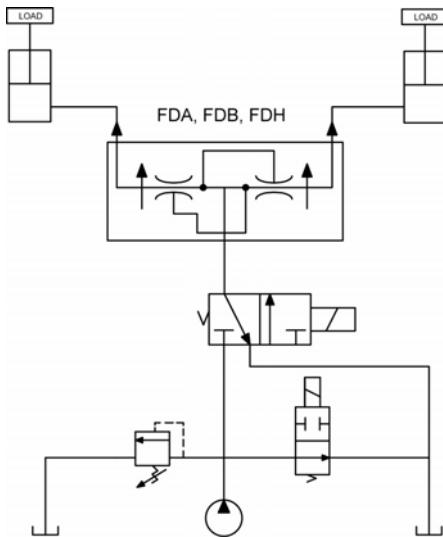
Flow Divider/Combiner Valves

	GPM	PSI	LPM	BAR	MODEL	PAGE
	12	3500	45	241	DG-FDA	262
	30	3500	114	241	SN-FDA	264
	12	3500	45	241	DG-FDB	266
	12	3500	45	241	DG-FDH	268
	12	3500	45	241	DG-FDT	270

Typical Schematic

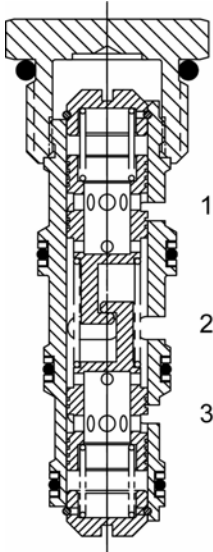
Typical application for the FDA, FDB, and FDH is to synchronize two independent cylinders or hydraulic motors in both directions.

Typical application for the FDT is to provide positive traction for vehicle transmissions. If one leg loses load, the valve insures flow to the other leg.



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DG-FDA Flow Divider / Combiner Valve, Spool Type



DESCRIPTION

10 size, 7/8-14 thread "Delta Series", spool type, flow divider/combiner.

OPERATION

In the dividing mode, the DG-FDA will divert input flow from port (2) to ports (3) and (1), based on the ratio specified, regardless of operating pressure.

1 The DG-FDA will combine input flows from ports (3) and (1), to port (2) the same ratio.

Should circuit operation result in a blockage of either (3) or (1), the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

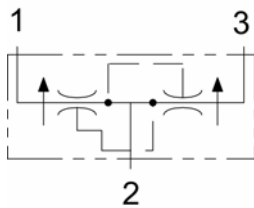
FEATURES

- Hardened parts for long life.
- Industry common cavity.



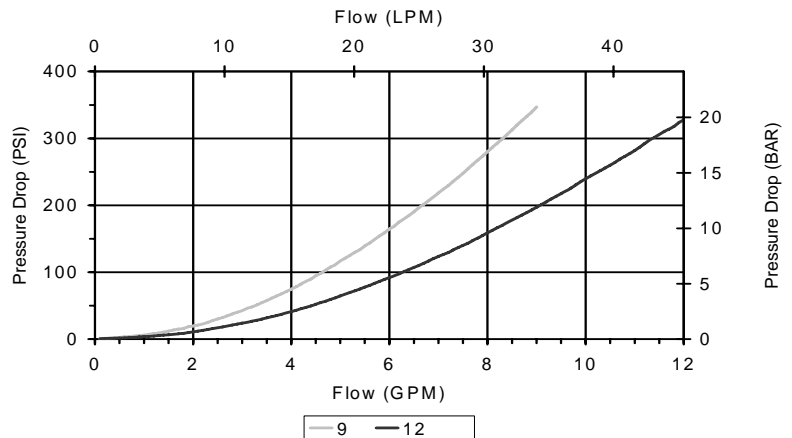
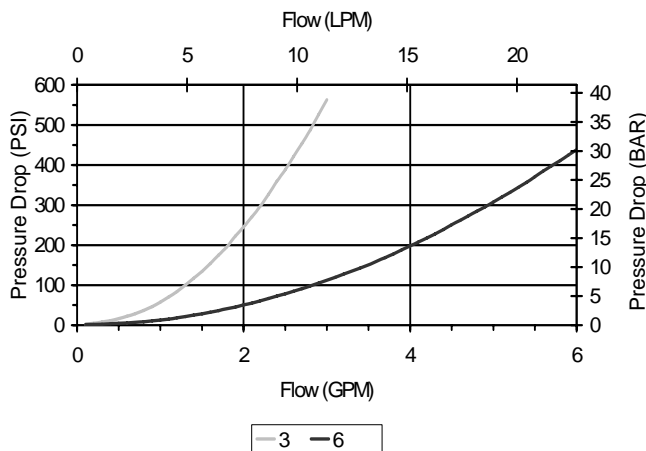
Do not exceed maximum flow per mode
For higher accuracy flow ratio, use DG-FDH

HYDRAULIC SYMBOL



PERFORMANCE

Actual Test Data (Cartridge Only)

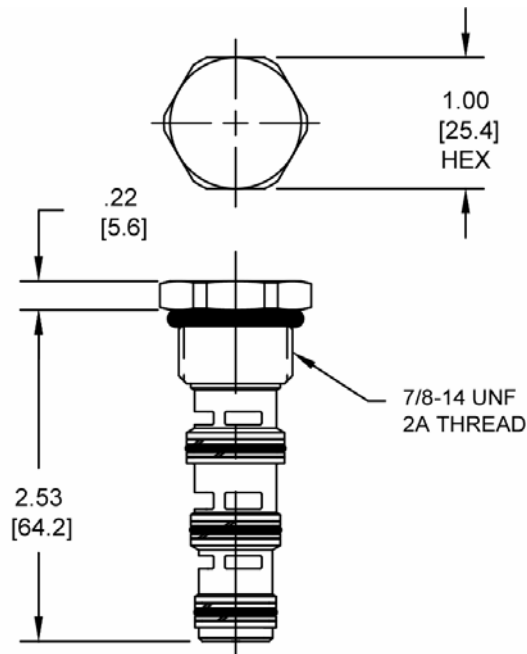


WARNING: The specifications/application data shown in our catalogs and data sheets is intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

VALVE SPECIFICATIONS

Maximum Flow	12 GPM (45 LPM)
Accuracy on Flow Splits	+/- 10% of Max. Rated Inlet Flow
Maximum Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.21 lbs. (.10 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Tools kit (form tool, reamer, tap)	40500002
Seal Kit	21191214

DIMENSIONS



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION

DG-FDA - - - - -			
OPTIONS			BODIES
Buna Standard	00		Without Body
Viton Standard	0V		¼" BSP Ports
			#6 SAE Ports
			NOTE: Must Use 4-Way Body
SPLITS	50	50-50	INLET FLOW
			03 2-3 GPM (7,6 – 11,3 LPM)
			06 3-6 GPM (11,3 – 22,6 LPM)
			09 6-9 GPM (22,6 – 34 LPM)
			12 9-12 GPM (34 – 45,3 LPM)

*Consult factory for Splits
Other than 50 - 50

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SN-FDA Flow Divider / Combiner Valve, Spool Type

DESCRIPTION

16 size, 1 5/16-12 thread "Super Series," spool-type flow divider/combiner valve.

OPERATION

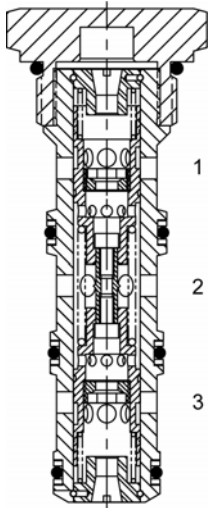
In the dividing mode, the SN-FDA will divert input flow from port (2) to ports (3) and (1), based on the ratio specified, regardless of operating pressure.

The SN-FDA will combine input flows from ports (3) and (1), to port (2) same ratio.

Should circuit operation result in a blockage of either (3) or (1), the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

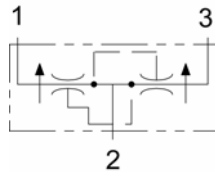
FEATURES

- Hardened parts for long life.
- Industry common cavity.



Do not exceed maximum flow per model

HYDRAULIC SYMBOL

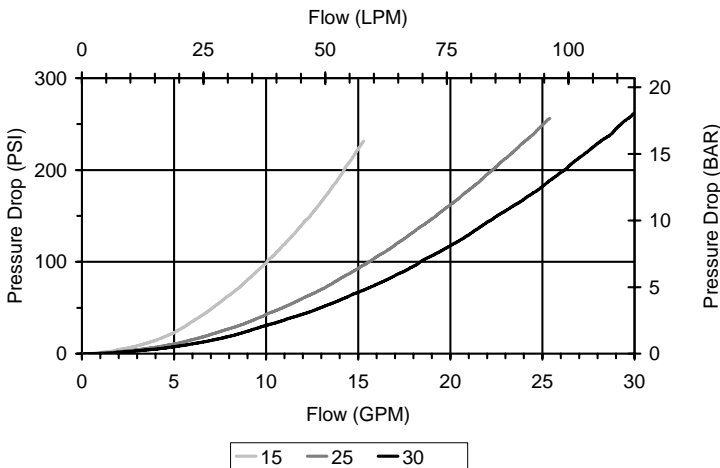


VALVE SPECIFICATIONS

Nominal Flow	30 GPM (114 LPM)
Accuracy on Flow Splits	+/- 10% of Max. Rated Inlet Flow
Maximum Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.95 lbs. (.43 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 4W
Cavity Tools kit (form tool, reamer, tap)	40500019

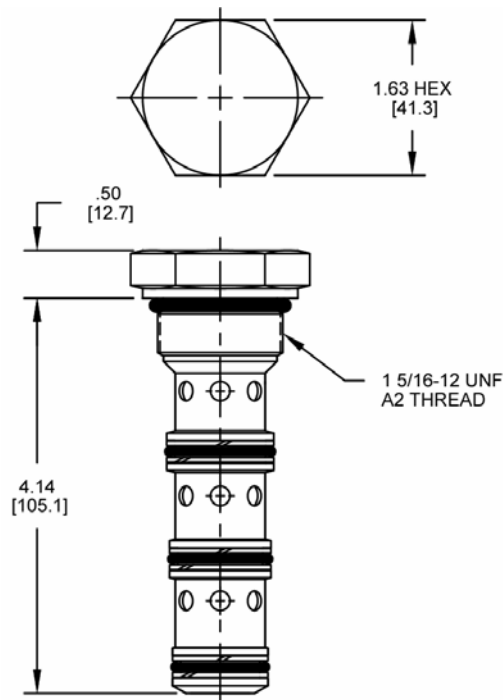
PERFORMANCE

Actual Test Data (Cartridge Only)



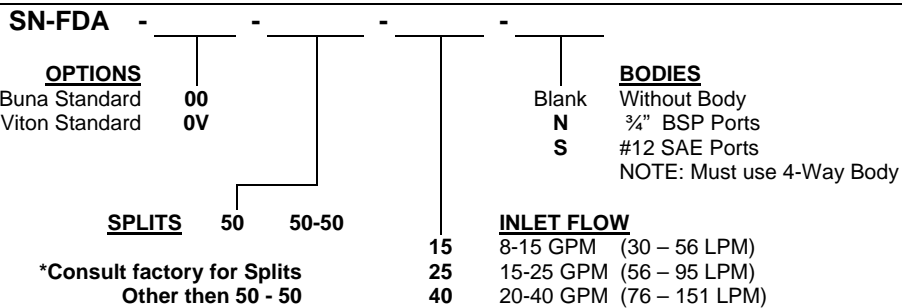
WARNING: The specifications/application data shown in our catalogs and data sheets is intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DIMENSIONS



(for bodies style and sizes see section "Accessories")

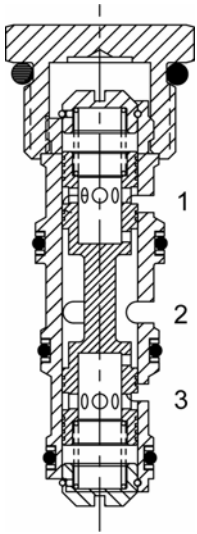
ORDERING INFORMATION



*Consult factory for Splits
Other than 50 - 50

WARNING: The specifications/application data shown in our catalogs and data sheets is intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DG-FDB Flow Divider Valve, Spool Type



DESCRIPTION

10 size, 7/8-14 thread "Delta Series", spool type, flow divider.

OPERATION

The DG-FDB will divert input flow from port (2) to ports (3) and (1), based on the ratio specified, regardless of operating pressure.

Should circuit operation result in a blockage of either (3) or (1), the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

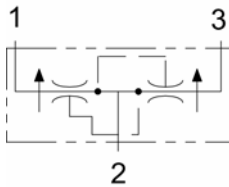
FEATURES

- Hardened parts for long life.
- Industry common cavity.



Do not exceed maximum flow per model

HYDRAULIC SYMBOL

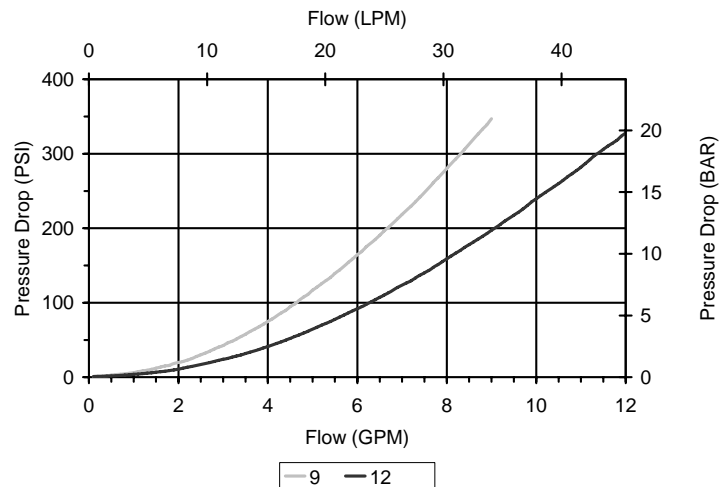
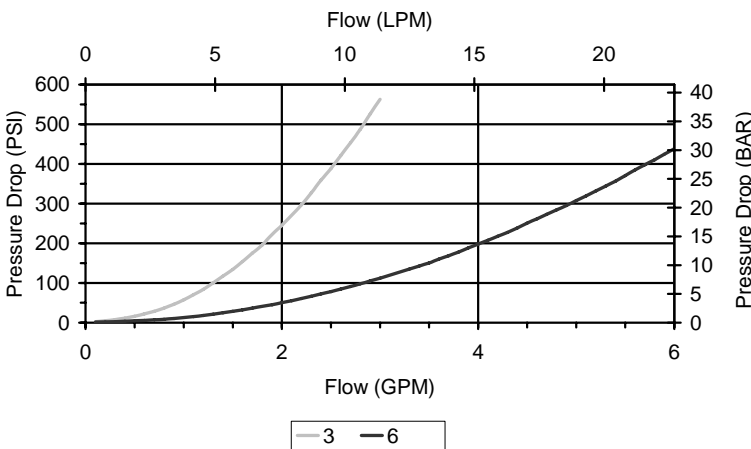


VALVE SPECIFICATIONS

Maximum Flow	12 GPM (45 LPM)
Accuracy on Flow Splits	+/- 10% of Max. Rated Inlet Flow
Maximum Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.21 lbs. (.10 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Tools kit (form tool, reamer, tap)	40500002
Seal Kit	21191214

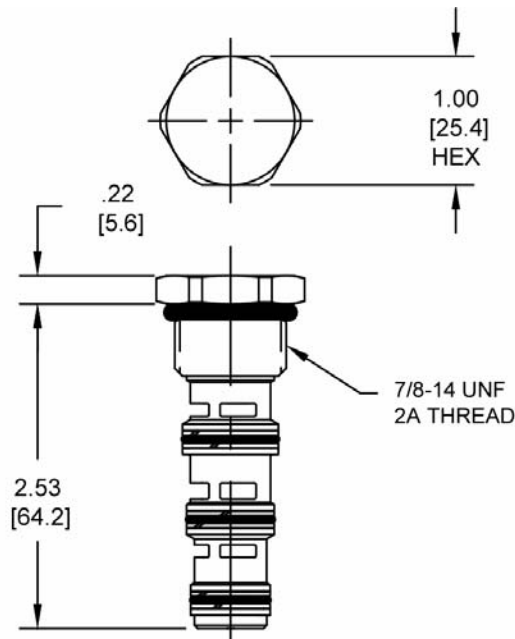
PERFORMANCE

Actual Test Data (Cartridge Only)



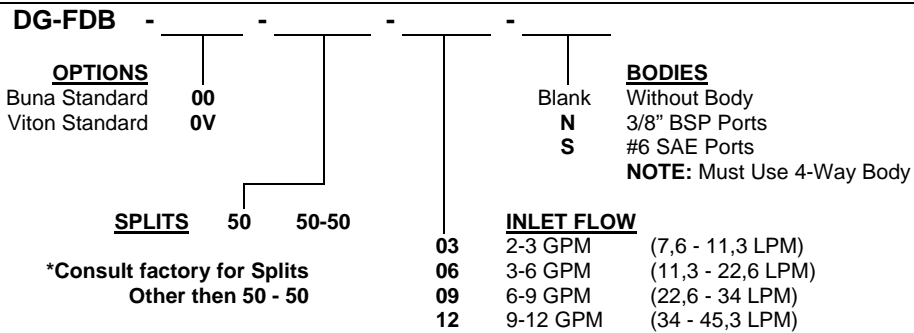
WARNING: The specifications/application data shown in our catalogs and data sheets is intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DIMENSIONS



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION



WARNING: The specifications/application data shown in our catalogs and data sheets is intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DG-FDH Flow Divider / Combiner Valve, Spool Type

DESCRIPTION

"High Accuracy" 10 size, 7/8-14 thread "Delta Series", spool type, flow divider/combiner.

OPERATION

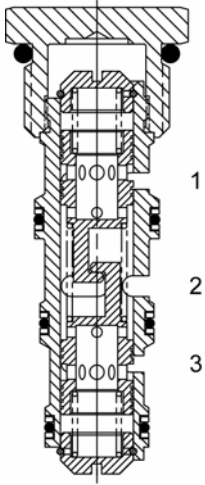
In the dividing mode, the DG-FDH will divert input flow from port (2) to ports (3) and (1), based on the ratio specified with a high degree of accuracy, regardless of operating pressure.

The DG-FDH will combine input flows from ports (3) and (1), to port (2) the same ratio.

Should circuit operation result in a blockage of either (3) or (1), the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

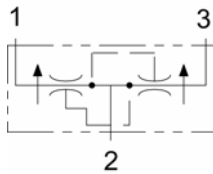
FEATURES

- Hardened parts for long life.
- Industry common cavity.



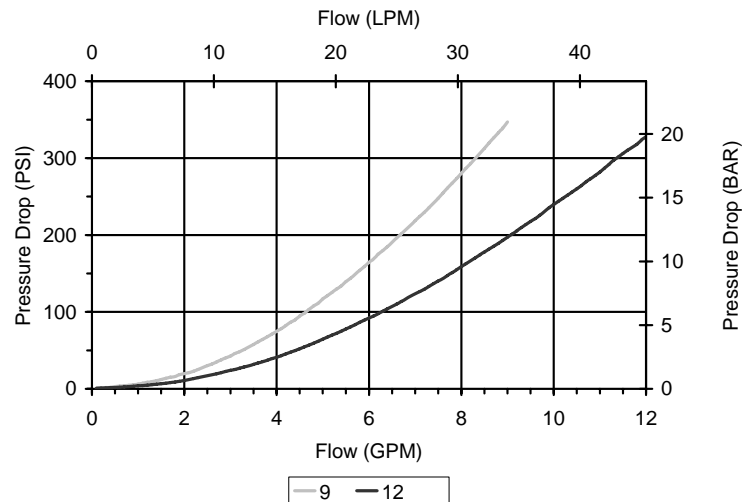
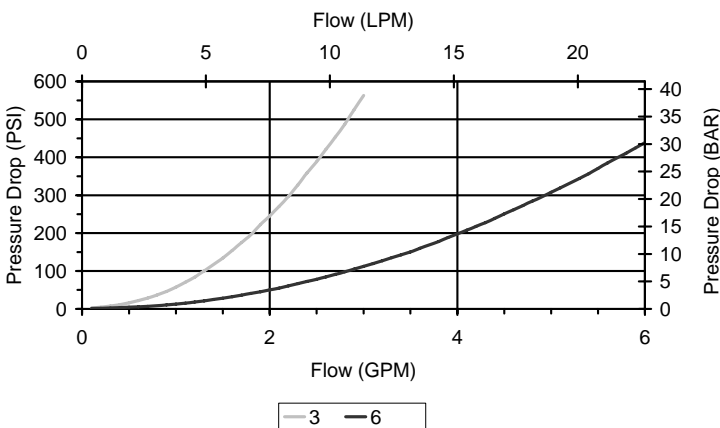
Do not exceed maximum flow per model
The DG-FDH should be considered when the DG-FDA does not provide the required accuracy.

HYDRAULIC SYMBOL



PERFORMANCE

Actual Test Data (Cartridge Only)

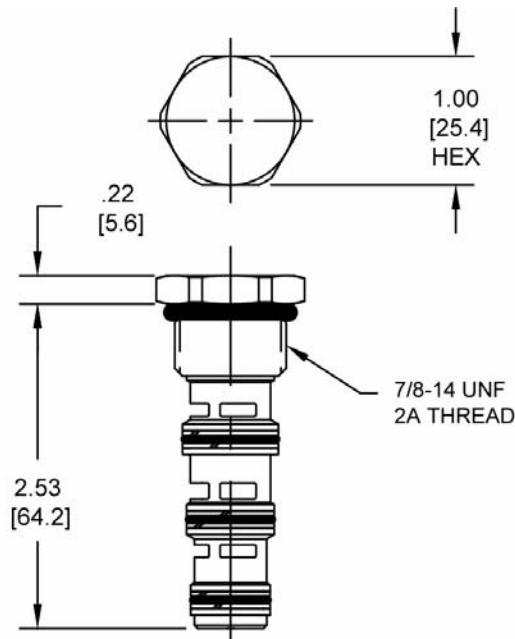


VALVE SPECIFICATIONS

Maximum Flow	12 GPM (45 LPM)
Accuracy on Flow Splits	+/- 4% of Max. Rated Inlet Flow
Maximum Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.21 lbs. (.10 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Tools kit (form tool, reamer, tap)	40500002
Seal Kit	21191214

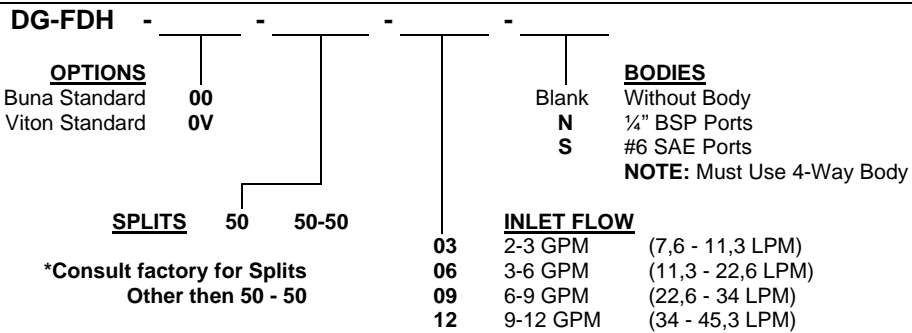
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DIMENSIONS



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION



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DG-FDT Flow Divider / Combiner Valve, Spool Type

DESCRIPTION

10 size, 7/8-14 thread "Delta Series", spool type, flow divider/combiner, positive traction valve.

OPERATION

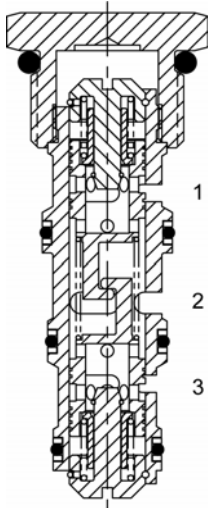
In the dividing mode, the DG-FDT will divert input flow from port (2) to ports (3) and (1), based on the ratio specified, regardless of operating pressure.

The DG-FDT will combine input flows from ports (3) and (1).

Should circuit operation result in a blockage of either (3) or (1), the opposite port may also close under certain conditions. Should this potential exist, consult the factory.

FEATURES

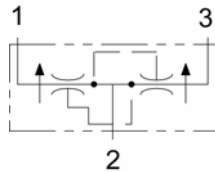
- Hardened parts for long life.
- Industry common cavity.



Do not exceed maximum flow per model

Use where wheel slip (or "drag") needs to be accomplished.

HYDRAULIC SYMBOL

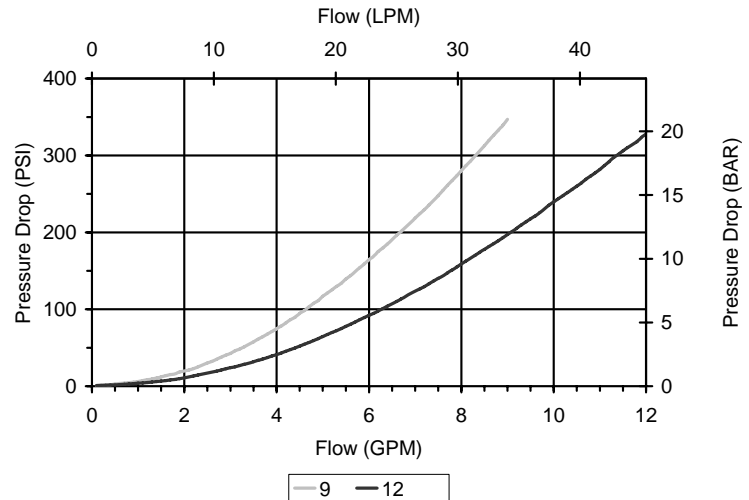
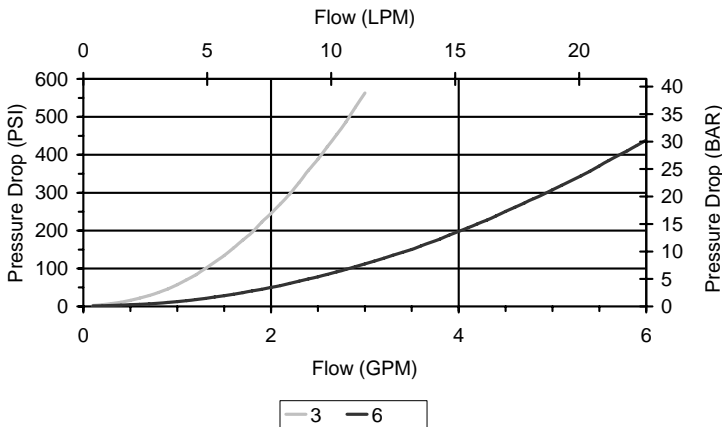


VALVE SPECIFICATIONS

Maximum Flow	12 GPM (45 LPM)
Accuracy on Flow Splits	+/- 10% of Max. Rated Inlet Flow
Maximum Operating Pressure	3500 PSI (241 bar)
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temperature Range	-40° to 250° F (-40° to 120° C)
Weight	.22 lbs. (.10 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	30 ft-lbs (40.6 Nm)
Cavity	DELTA 4W
Cavity Tools kit (form tool, reamer, tap)	40500002
Seal Kit	21191214

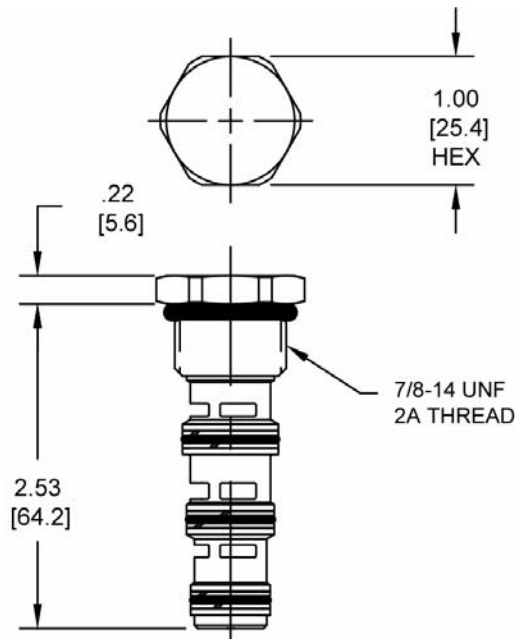
PERFORMANCE

Actual Test Data (Cartridge Only)



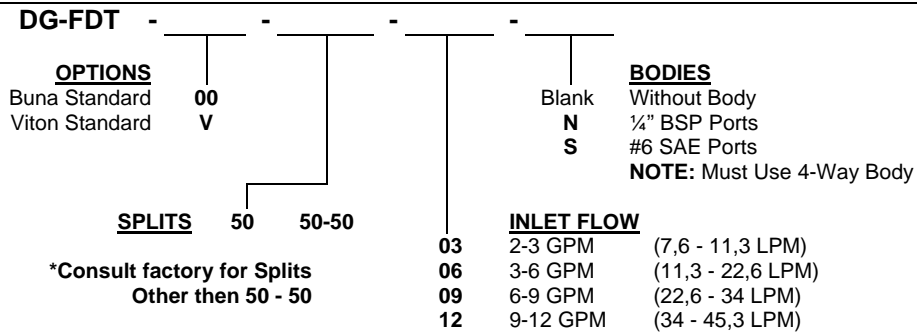
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DIMENSIONS



(for bodies style and sizes see section "Accessories")

ORDERING INFORMATION



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