

2/2 POPPET VALVE - NO & NC

Hydraulic poppet valves are two-way, two-position directional control valves that use a poppet moving against a valve seat to open or block oil flow. Unlike a spool valve where internal clearances lead to internal leakages, the poppet designs are virtually leak free.

Bemco Fluidtechnik (FLUIDIK) offers a variety of 2/2 poppet valve options as detailed below,

Model Code	Type	Actuation	Max Pressure	Max Flow
DHF06...	NO & NC	Solenoid	210 bar	16 LPM
DHF08...	NC	Solenoid	210 bar	36 LPM
DHFM06...	NC	Push Knob	210 bar	16 LPM
DHFL06...	NC	Lever	210 bar	16 LPM
NHF06...	NC	Solenoid	700 bar	8 LPM

KEY FEATURES & BENEFITS

FLUIDIK DHF series valves are available in normally open or normally closed configurations with a variety of actuation mechanism including solenoid coils, lever and spring return push knobs. These valves are available as cartridges and line mounted versions.

COMMON APPLICATIONS

- Hydraulic Presses
- Safety and Emergency Isolation Circuits
- Accumulator Shut-off and Safety Blocks
- Injection Molding Machines
- Load-Holding in Cranes and Hoists
- Hydraulic Test Benches
- Die Casting Equipment
- Workpiece Clamping Fixtures
- Mobile Machinery Braking Systems
- Pump Unloading Circuits

Refer the following pages for additional details and contact us for your application requirements.

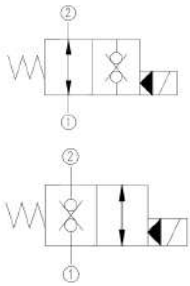
SOLENOID POPPET VALVE - DHF06



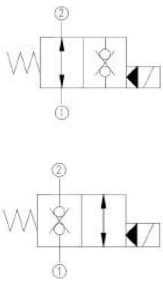
2/2 Type | NO/NC | Screw-in Cartridge

Specification/ Technical Data

Max. Operating Pressure	210 bar
Maximum Flow	16 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	1-2/ 2-1
Actuation	Solenoid
Min. Voltage (of nominal)	85%
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	2.0Kg



DHF 06 valves are solenoid-operated direct-acting poppet type 2-way and 2-position directional control valves that may be actuated by either DC or AC voltages to open or close the oil path. Once the coils are energised, the poppet opens/ closes and allows/ blocks oil flow from 1 to 2 or from 2 to 1 based on valve selection. The valve is designed for low pressure drop due to its design and is available in either 12/24VDC or 220VAC versions.

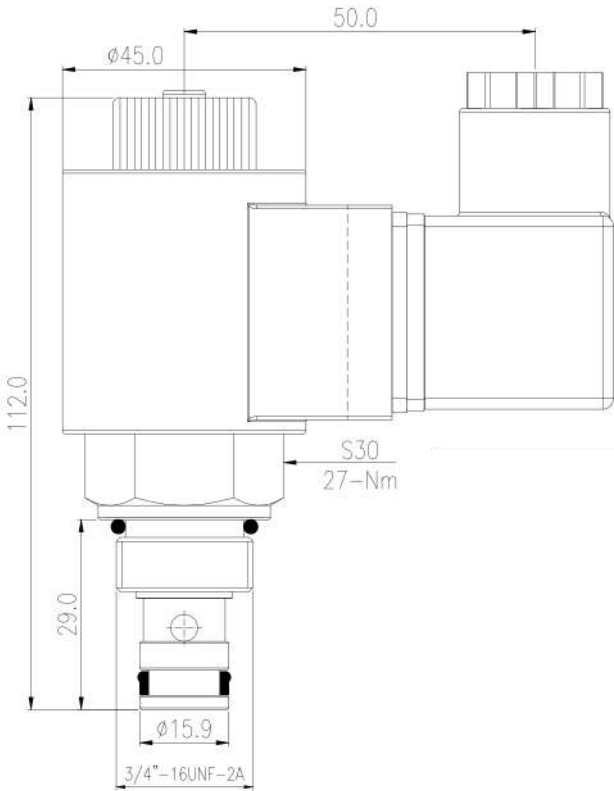


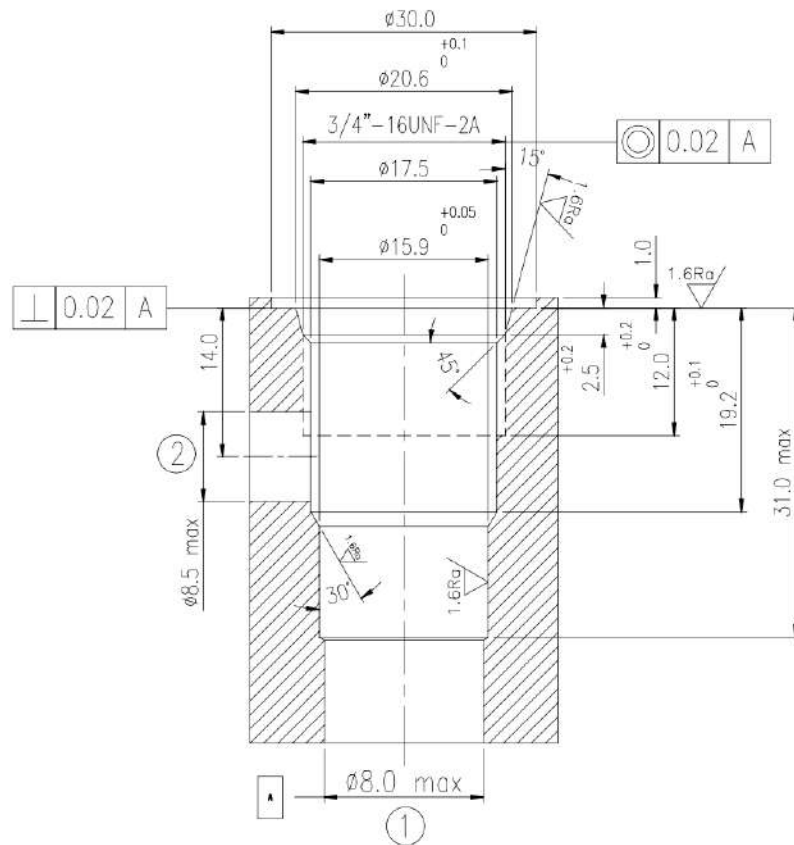
227 (NO)

228 (NC)

Ordering Information

Basic Code		DHF
Size/ NG	NG6	06
Type	227/ 228	227/ 228
Sol. Voltage	G12, 24/ A220	G12..A220
Seal Material	Viton	No code
Version		1x

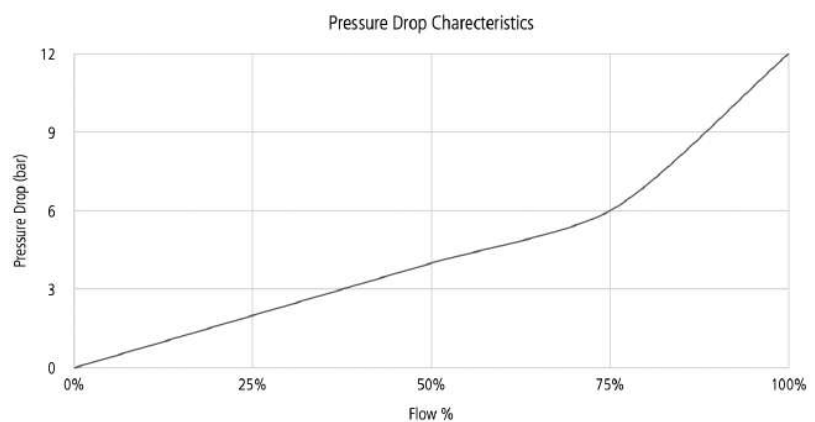




Spare List

SealKit	SSVDHF061x
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Performance Chart

Recorded at T_{Oil} = 40°C and 68 cSt.

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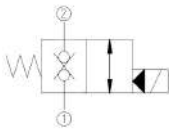
SOLENOID POPPET VALVE - DHF08



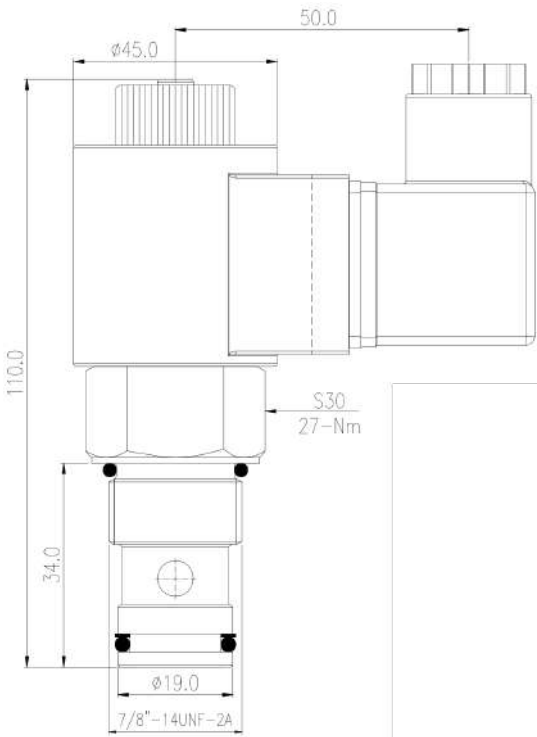
2/2 Type | NC | Screw-in Cartridge

Specification/ Technical Data

Max. Operating Pressure	210 bar
Maximum Flow	36 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	1-2/ 2-1
Actuation	Solenoid
Min. Voltage (of nominal)	85%
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	2.0Kg

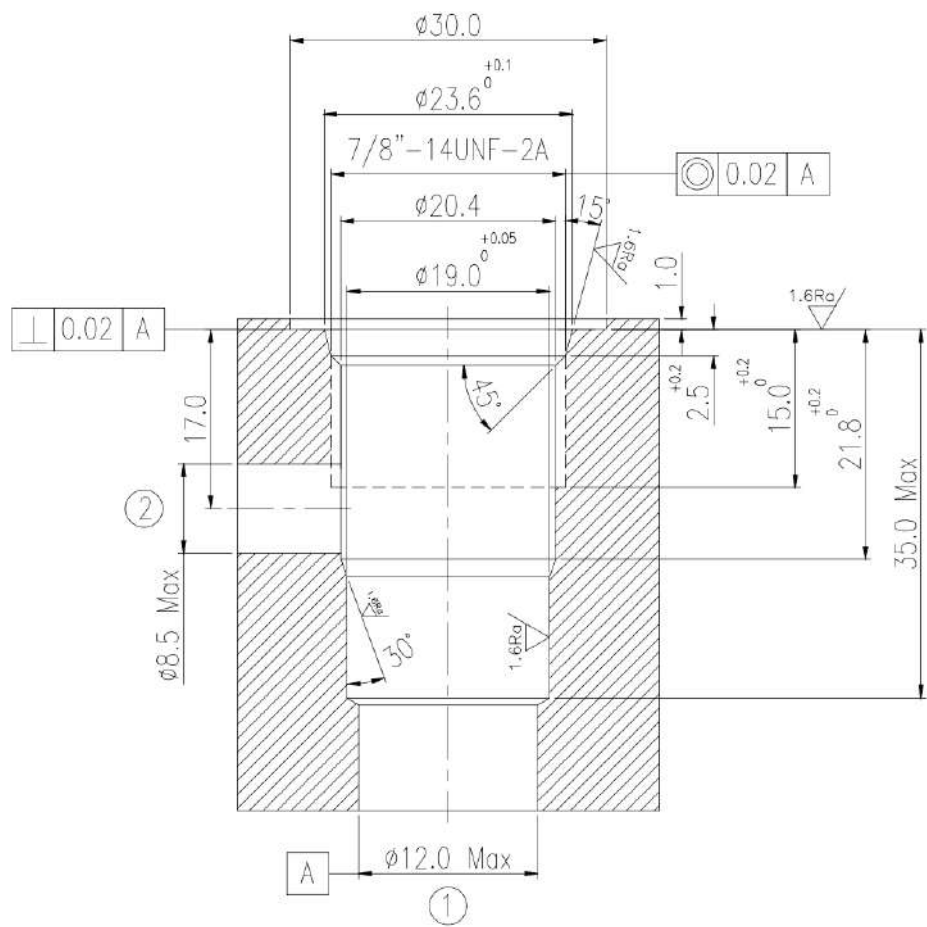


DHF 08 valves are solenoid-operated direct-acting poppet type 2-way and 2-position directional control valves that may be actuated by either DC or AC voltages to open the oil path. Once the coils are energised, the poppet opens and allows free flow from 1 to 2 or from 2 to 1 based on application requirements. The valve is designed for low pressure drop due to its design and is available in either 12/24VDC or 220VAC versions.



Ordering Information

Basic Code		DHF
Size/ NG	NG8	08
Type	Normally Closed	228
Sol. Voltage	G12, 24/ A220	G12..A220
Seal Material	Viton	No code
Version		1x

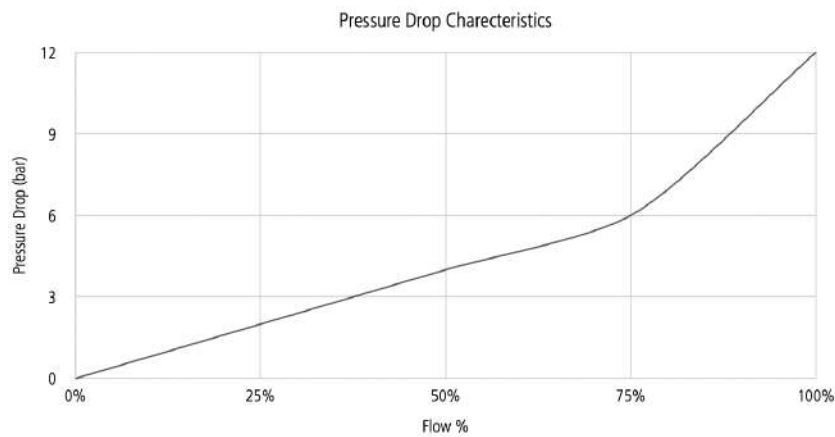


Spare List

SealKit	SSVDHF081x
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Performance Chart

Recorded at TOil = 40°C and 68 cSt.



MANUAL POPPET VALVE - DHFM



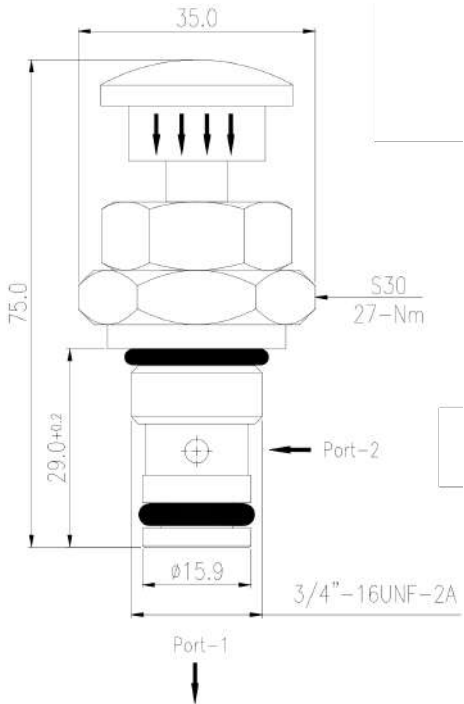
2/2 Type | NC | Screw-in Cartridge

Specification/ Technical Data

Max. Operating Pressure	200 bar
Maximum Flow	16 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	2 to 1
Actuation	Manual-Push
Push Force (min)	4Kg
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	>0.2Kg



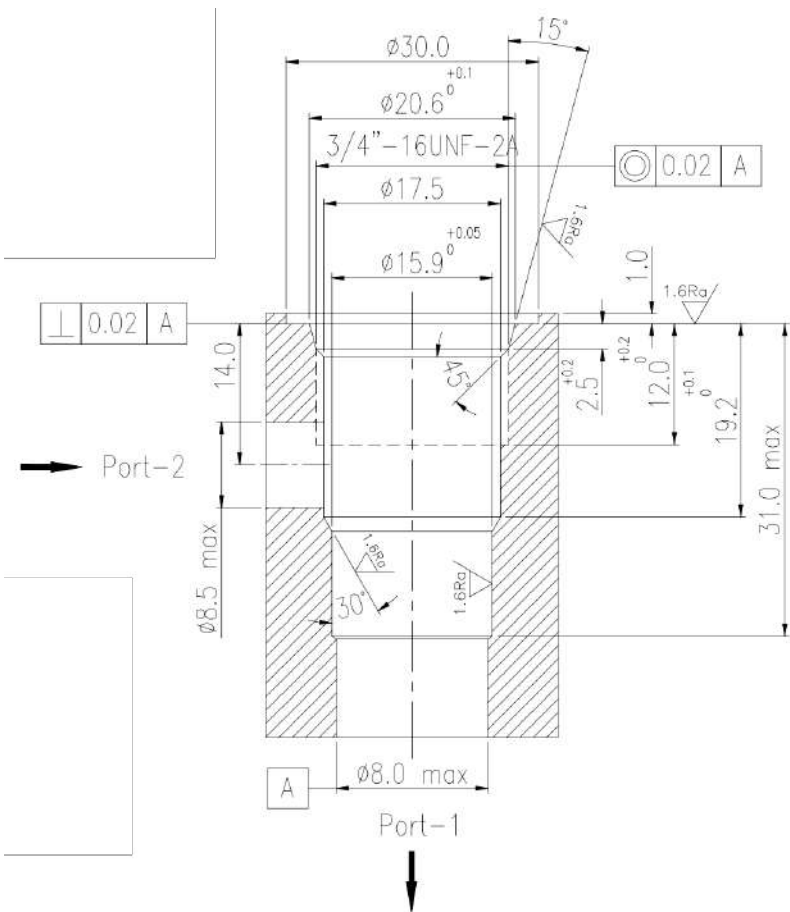
DHFM 06 valves are manual operated direct acting poppet type directional control valves that may be actuated by a spring return push knob to open the oil path. These are normally closed (NC) valves that are ideal for applications where emergency pressure release functions are required. When actuated, the valve allows oil to flow freely from port 2 to 1 and in closed position, the flow path is blocked in both directions.



Note: Consult factory for stainless steel MOC

Ordering Information

Basic Code		DHFM
Size/ NG	NG6	06
Type	Cartridge	No code
Seal Material	Viton	No code
Version		1x



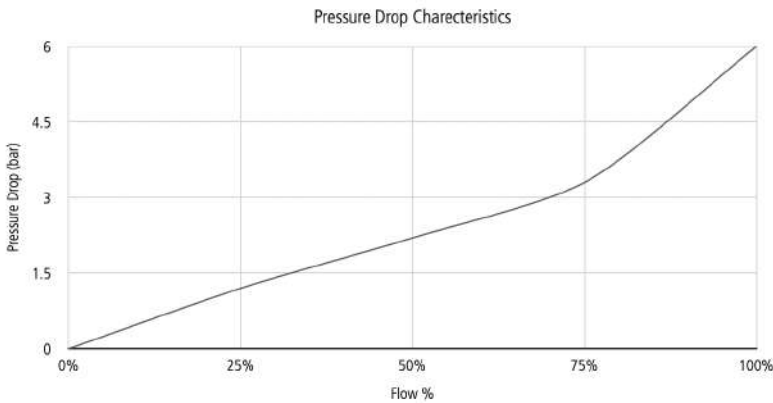
Spare List

SealKit

SSVDHFM061x

Performance Chart

Recorded at TOil = 40°C and 68 cSt.



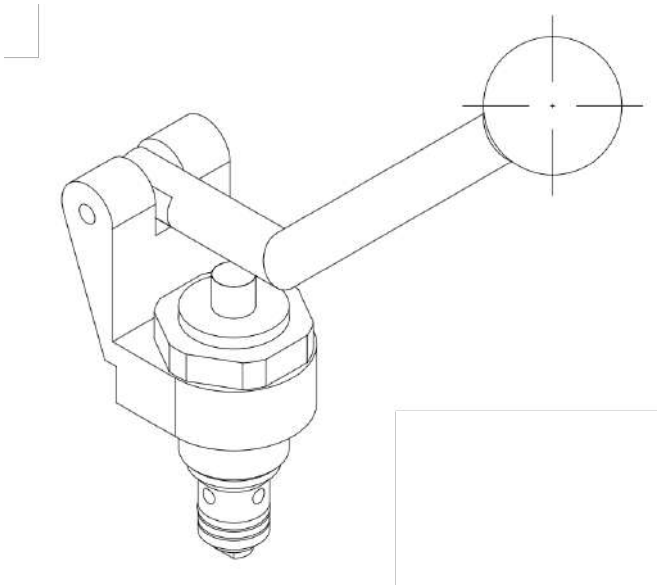
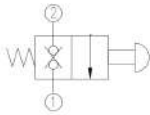
LEVER POPPET VALVE - DHFL



2/2 Type | NC | Screw-in Cartridge

Specification/ Technical Data

Max. Operating Pressure	210 bar
Maximum Flow	16 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	2 to 1
Actuation	Manual-Lever
Push Force (min)	4Kg
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	~ 0.35Kg



DHFL 06 valves are lever operated direct acting poppet type directional control valves that may be actuated by a spring return lever to open the oil path. These are normally closed (NC) valves that are ideal for applications where lowering control circuits. When actuated, the valve allows oil to flow freely from port 2 to 1 and in closed position, the flow path is blocked in both directions.

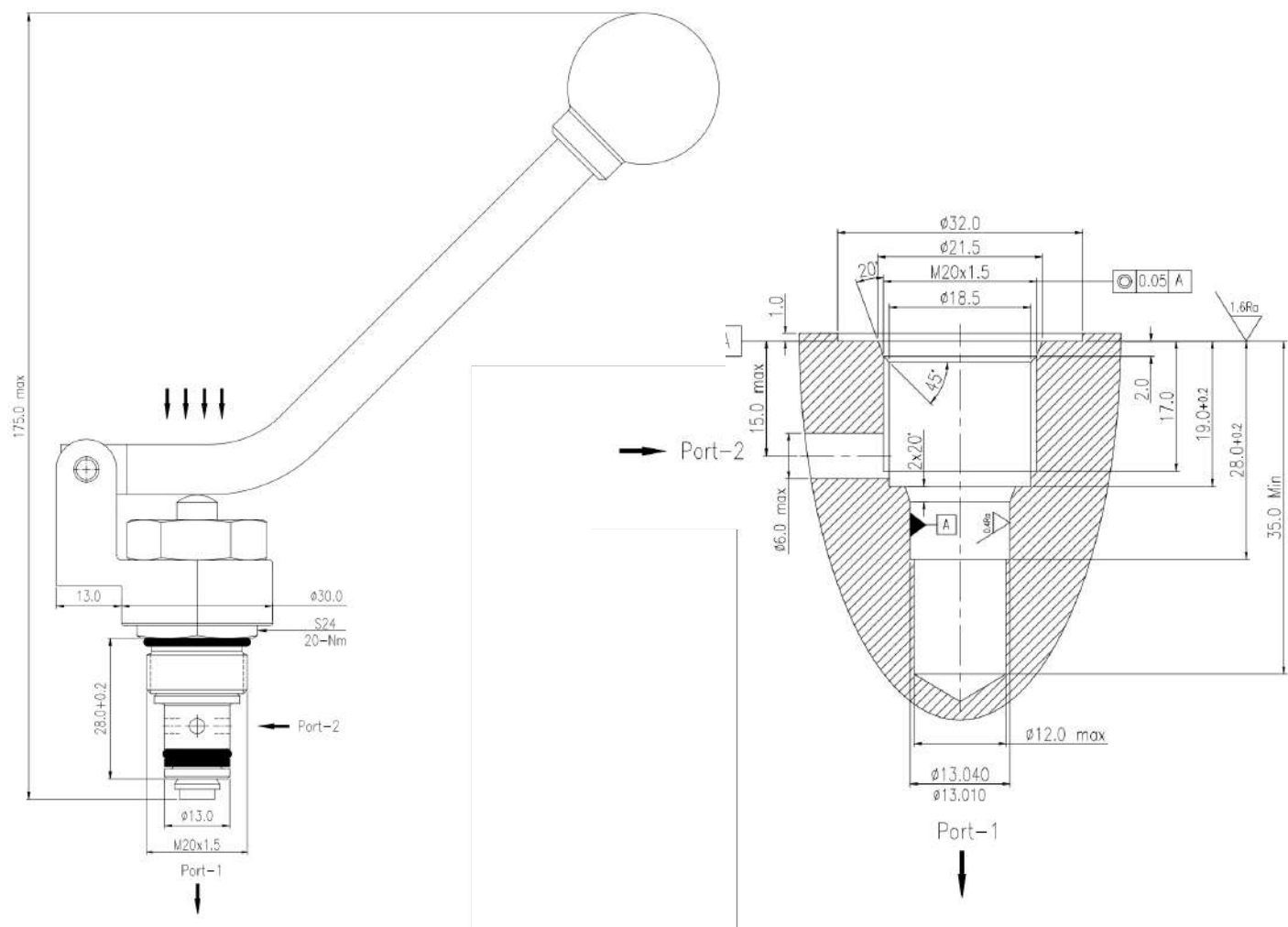
Common application include garage lifts, scissors lifts etc. where single acting cylinders are used and lifting is done using hydraulic pump. The valve may be used for lowering the load manually and also stop at an intermediate position if required.

Consult factory for custom design of the lever mechanism including roller actuator, push-button, knob, pin etc.

Ordering Information

Basic Code	Lever Poppet Valve	DHFL
Size/ NG	NG6	06
Type	Cartridge	No code
Seal Material	Viton	No code
Version		1x

Valve Dimensions



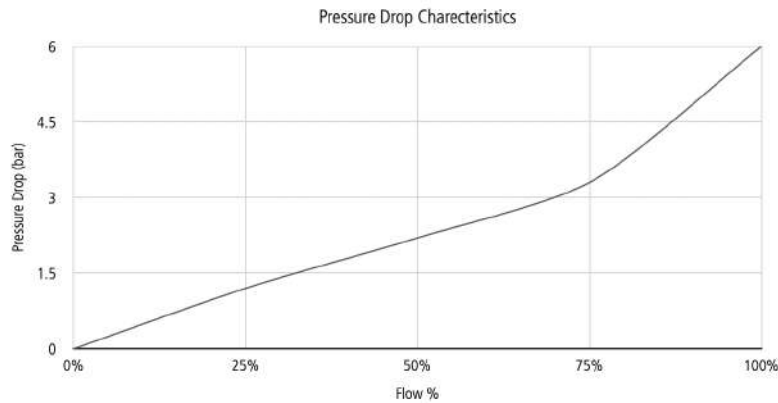
All dimensions in mm

Spare List

SealKit	SSVDHFL061x
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Performance Chart

Recorded at TOil = 40°C and 68 cSt.



2/2 SOLENOID VALVE - 700BAR (NHF 06)



2/2 Type | Normally Closed | Screw-in Cartridge

Specification/ Technical Data

Max. Operating Pressure	700 bar
Maximum Flow	8 lpm
Max. Internal Leakage	0.3ml/min
Flow Direction	2 to 1
Actuation	Solenoid
Min. Voltage (of nominal)	85%
Material	Carbon Steel
Media	Mineral Oil
Oil Temperature Range	+10 to 80°C
Oil Viscosity	ISO VG 46-100
Oil Cleanliness (ISO 4406)	20/18 /15
Orientation	Any
Weight (approx.)	1.8 Kg

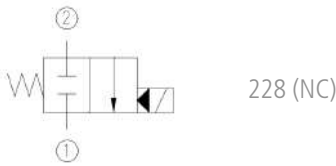


NHF 06 valves are high pressure solenoid-operated direct-acting spool type 2-way and 2-position directional control valves that may be actuated by either DC or AC voltages to open the oil path. Once the coils are energised, the spool opens and allows oil flow. The valve is designed for low pressure drop due to its design and is available in either 12/24VDC or 220VAC versions.

The valves are ideal for unloading function where the valve may experience high pressures, but are not designed for pressure holding due to internal design limitations. A manual override feature is available as standard. The valves may only be used in flow direction 2 to 1 and are designed for intermittent 700bar applications. For continuous operation, the maximum pressures are limited upto 550bar.

The valve may also be used for decompression or decay of pressures to avoid stress, noise and damage to hydraulic components caused by sudden release of stored hydraulic energy in cylinders (actuators) and/ or hydraulic circuits.

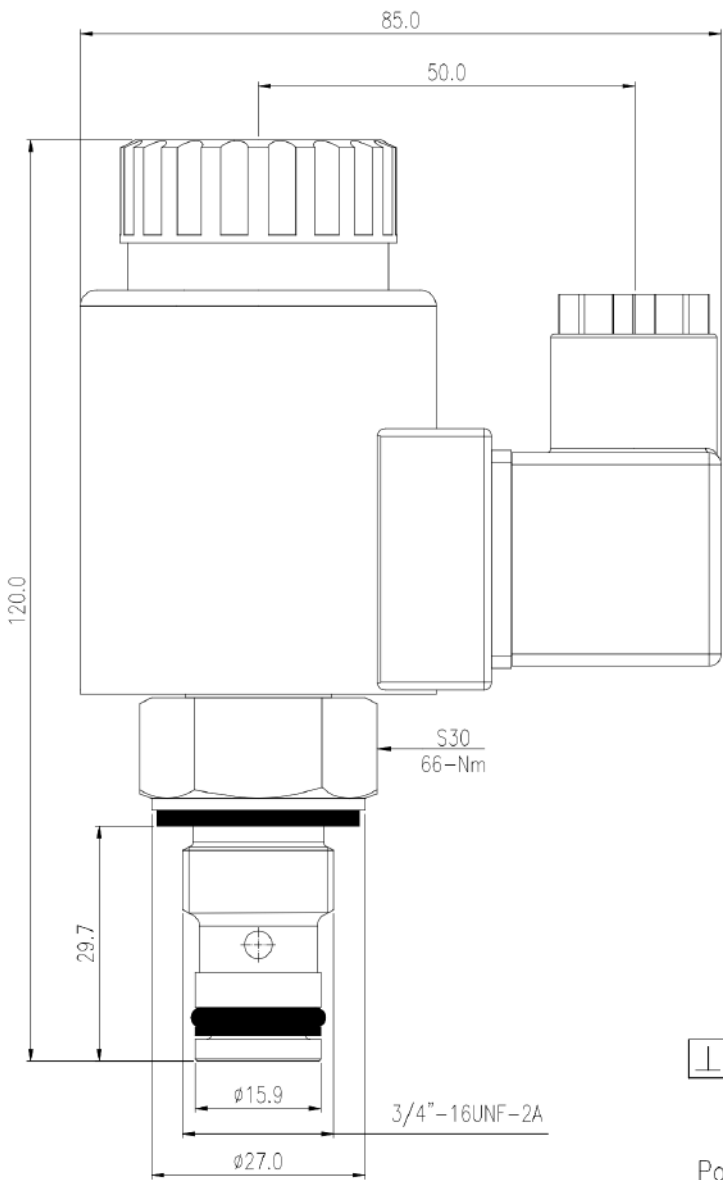
Consult factory or use FLUDIK FM3... type of 3/2 poppet type valves or FM4... 4/2 poppet type valves for continuous high pressures upto 700bar or for pressure holding functions.



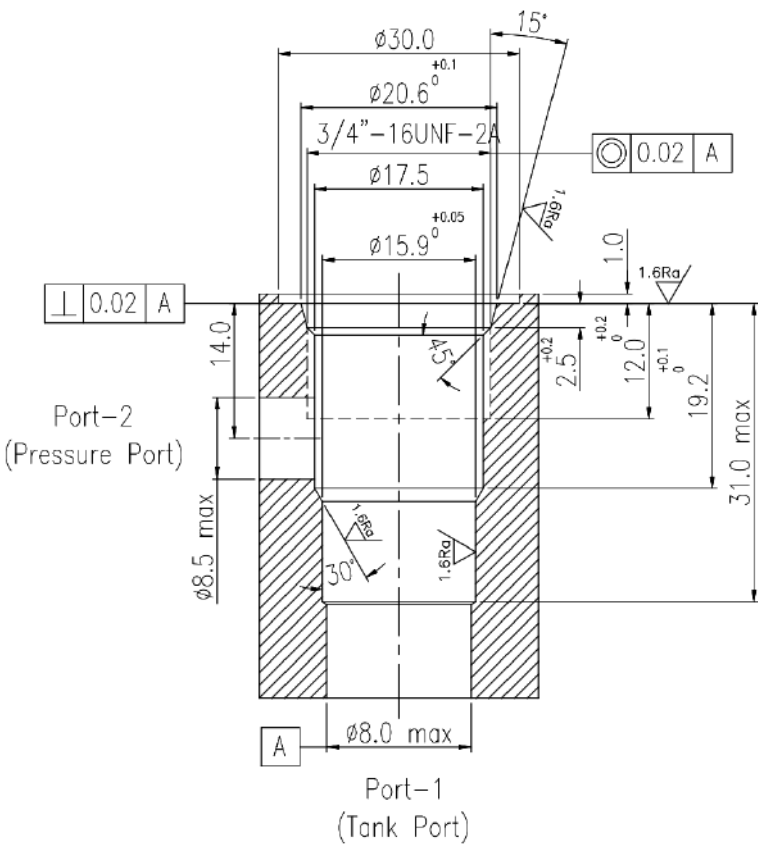
Ordering Information

Basic Code		NHF
Size/ NG	NG6	06
Type	NC - 228	228
Sol. Voltage	G12, 24/ A220	G12..A220
Seal Material	Viton	No code
Version		1x

Dimension Details



Cavity Details



Spare List

SealKit	SSVNHF061x
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