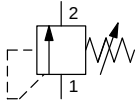


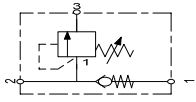
Compact Hydraulics Minivalves

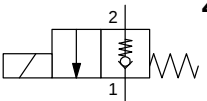
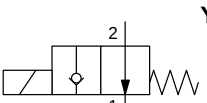
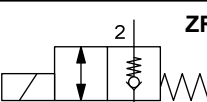
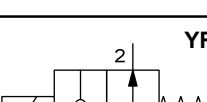


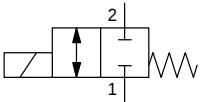
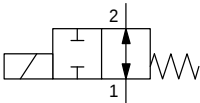
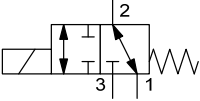
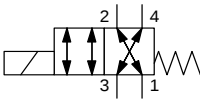
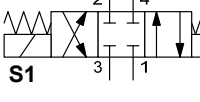
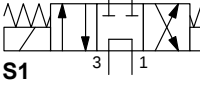
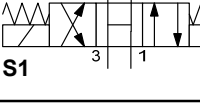
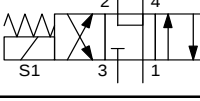
Content

Pressure valves	Symbol	Type	$Q_{\max}$ l/min)	$P_{\max}$ (bar)	Cavity		Brochure no.
Pressure relief valve direct acting		DB06C-01	20	350	U	FC06-2	5.141.0

Flow valves	Symbol	Type	$Q_{\max}$ (l/min)	$P_{\max}$ (bar)	Cavity		Brochure no.
2-way flow control valve		SR06-01	15	350	U	FC06-2	5.142.0

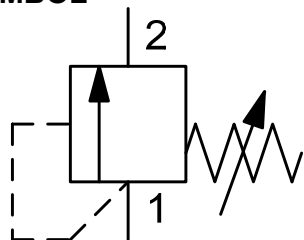
Check valves	Symbol	Type	$Q_{\max}$ l/min)	$P_{\max}$ (bar)	Cavity		Brochure no.
Check valve		RV06A-01	20	350	U	FC06-2	5.143.0
Check valve with integrated pressure relief		RV06C-01	20	350	U	FC06-3	5.145.0

Directional poppet valves	Symbol	Type	$Q_{\max}$ (l/min)	$P_{\max}$ (bar)	Cavity		Brochure no.
2/2-poppet valve normally closed		WS06Z-01	20	350	U	FC06-2	5.146.0
2/2-poppet valve normally open		WS06Y-01	20	350	U	FC06-2	5.147.0
2/2-poppet valve normally closed		WS06ZR-01 Part no. 2610333	20	350	U	FC06-2	cf
2/2-poppet valve normally open		WS06YR-01 Part no. 2610394	20	350	U	FC06-2	cf

Directional spool valves	Symbol	Type	Q _{max} (l/min)	p _{max} (bar)	cavity		Brochure no.
2/2-spool valve, normally closed	 W	WK06W-01	10	350	U	FC06-2	5.148.0
2/2-spool valve, normally open	 V	WK06V-01	15	350	U	FC06-2	5.156.0
3/2-spool valve	 C	WK06C-01	10	350	U	FC06-3	5.149.0
4/2-spool valve	 Y	WK06Y-01	10	350	U	FC06-4	5.150.0
4/3-spool valve	 E	WK06E-01	11	350	U	FC06-4	5.151.0
4/3-spool valve	 G	WK06G-01	7	350	U	FC06-4	5.152.0
4/3-spool valve	 H	WK06H-01	9	350	U	FC06-4	5.153.0
4/3-spool valve	 J	WK06J-01	11	350	U	FC06-4	5.154.0

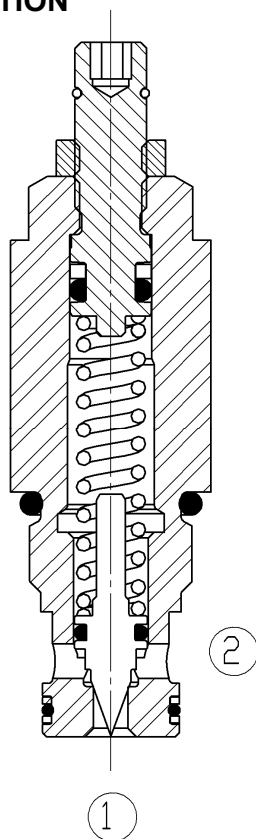
Coils for Minivalves	Type (Part No.)	Nominal voltage	Electrical connection	Brochure No.
Plug Type G *Plug with rectifier (see right side)	2610160	12 VDC	Plug to EN 175301-803 Form B, DIN 43650B Plug for DC coils Part No. 2600570	5.155.0
	2610161	24 VDC		
	2610156	105 VDC		
	2610159	205 VDC		
	2610156 + 2600582*	115 VAC	Plug with integrated rectifier for AC coils Part No. 2600582	
	2610159 + 2600582*	230 VAC		
Plug Type N	2610149	12 VDC	Deutsch plug, axial	5.155.0
	2610150	24 VDC		
Plug Type L	2610151	12 VDC	Coil with 2 leadwires 0,75mm², 450 mm long	5.155.0
	2610162	24 VDC		

SYMBOL



up to 20 l/min
up to 350 bar

FUNCTION



The Pressure relief valve DB06C is a direct acting, spring loaded valve with damped characteristics. Its job is to limit the pressure in the system. The spring acts with a certain force on the piston and presses it on the valve seat. On the opposite side the system pressure works at port 1. If the hydraulic force is lower than the spring pressure the valve remains closed. Only if the force is higher, the valve opens and the flow will be let to port 2 (tank). If the system pressure is equal to the spring pressure the valve closes again.

Attention: Pressure at port 2 increases the opening pressure! If ports are interchanged or the pressure adjustment is higher than the operating pressure, the function of the valve is invalid.

Pressure Relief Valve

Poppet type, direct acting

Cartridge-Minivalve – 350 bar

DB06C-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Fast response
- Adjustable under full system pressure
- Adjustable over the u.m. pressure range
- Various pressure ranges up to 350 bar
- Poppet type valve with damped characteristics

SPECIFICATIONS

Operating pressure:

Nominal flow:

Pressure ranges:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTF_d:

Installation:

Materials:

Cavity:

Weight:

max. 350 bar

max. 20 l/min

0 up to 125 bar

0 up to 210 bar

35 up to 350 bar

leakage-free, < max. 0,35 cm³/min at 75% nominal pressure

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2

min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

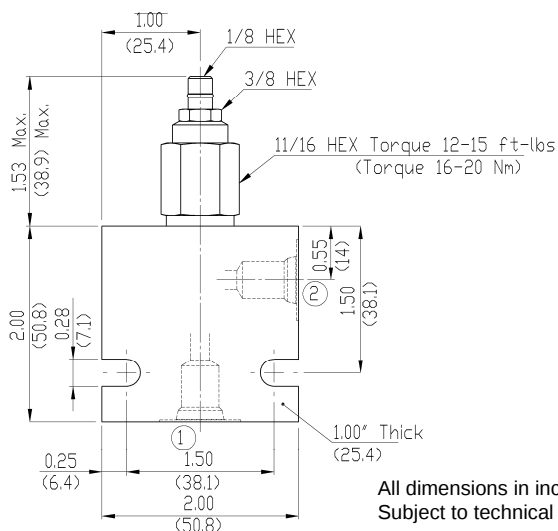
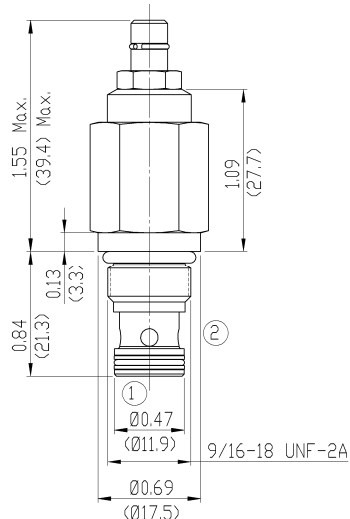
FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-2

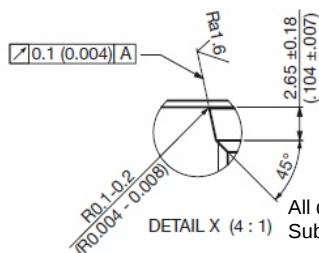
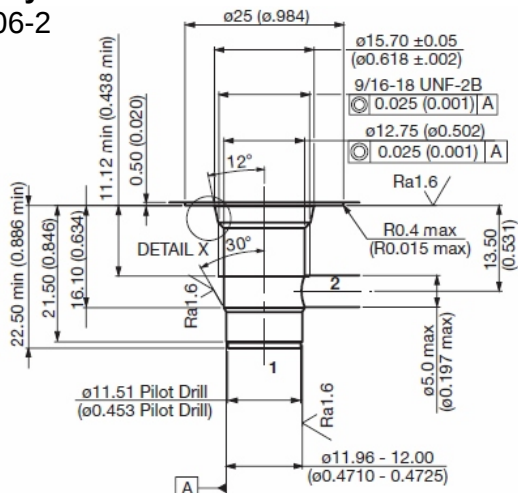
0,068 kg

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



MODEL CODE

DB06C - 01 - C - N - 400 V 300

Basic model

Pressure relief valve, direct acting

Type

01 = Standard

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Pressure range

180 = 0 up to 125 bar (1800PSI)

300 = 0 up to 210 bar (3000PSI)

500 = 35 up to 350 bar (5000PSI)

Adjustment option

V = adjustable by tool

Setting

omission = 50% of max. Pressure

300 = factory preset pressure in PSI (/10)

Other pressures on request

Standard models

Name	Part No.
DB06C-01-C-N-180V	2610322
DB06C-01-C-N-300V	2610324
DB06C-01-C-N-500V	2610342
Other types on request	

*Line bodies

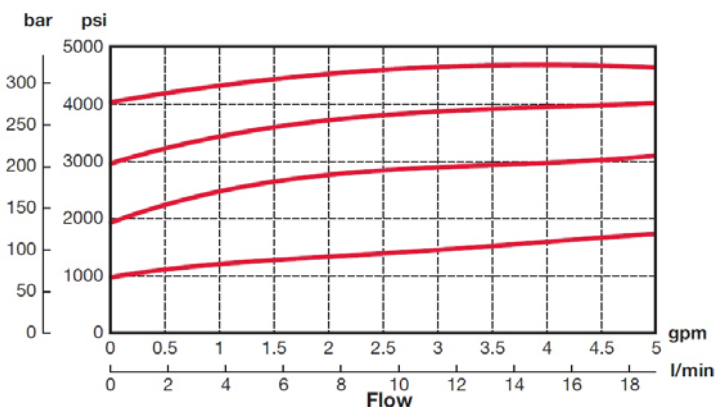
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C



Annotation

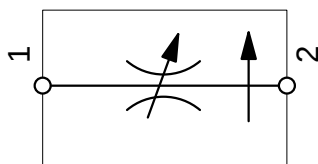
The technical information in this brochure are relating to the operating conditions and applications.

At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.

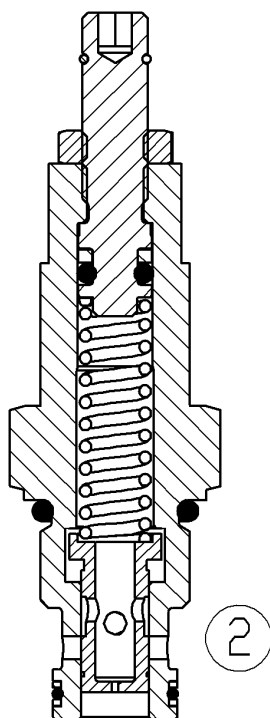
HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

SYMBOL



up to 15 l/min
up to 350 bar

FUNCTION



The SR06 is a 2 way directional flow control-valve, which keeps the nominal flow constant by means of a control function. The nominal flow is almost independent of the pressure and the viscosity. The valve is equipped with fixed orifice and integrated pressure compensator. The measuring orifice determines the nominal flow-adjustment range which is adjustable within a small range. If there is flow from port 1 to 2, a pressure differential is created at the measuring orifice. If the pressure compensator is in regulating position there is a balance of pressure differential at control piston surface on the one side and spring force on the other side. With rising flow (higher pressure differential) the cross-section of the regulating orifice will be controlled that there is a balance of forces. Hereby a constant outlet flow will be reached.

Flow Regulator

Spool type, direct acting

Cartridge-Minivalve – 350 bar
SR06-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- Pressure compensated flow control of consumers
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Superior stability throughout the entire flow range

SPECIFICATIONS

Operating pressure:

max. 350 bar at port 1 (pump)
max. 210 bar at port 2 (consumer)

Nominal flow:

max. 15 l/min

Flow ranges:

0,25 up to 1,00 l/min

1,00 up to 3,80 l/min

3,80 up to 15,0 l/min

Temperature range of operating fluid:

Min. – 30°C up to max. +100° C

Ambient temperature range:

Min. – 30°C up to max. + 60° C

Fluid:

Hydraulic fluid to DIN 51524 T1 + T2

Viscosity range:

min. 7,4 mm²/s up to max. 420 mm²/s

Filtration:

Class 21 / 19 /16 according to ISO 4406 or cleaner

MTTF_d:

150 years

Installation:

no orientation restrictions

Materials:

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature

range -20°C up to +120°C)

Back-up rings: TPE-E

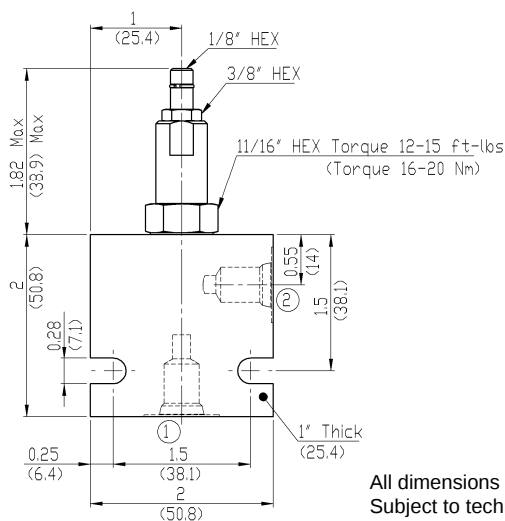
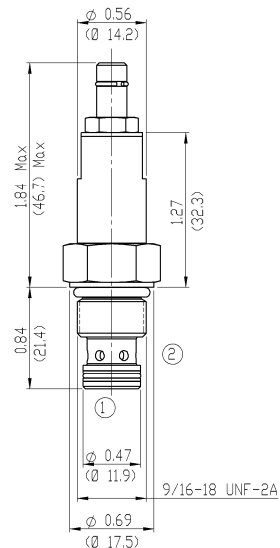
FC06-2

0,023 kg

Cavity:

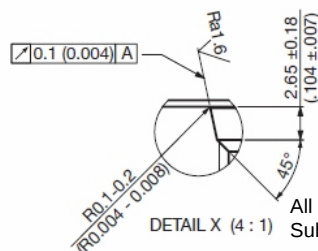
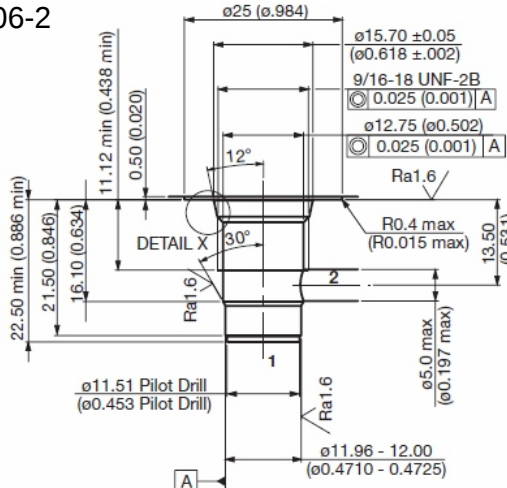
Weight:

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



MODEL CODE

SR06 - 01 - C - N - 0.3 V 0.1

Basic model
flow control valve, direct acting

Type
01 = Standard

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

Nominal flow range
0.3 = 0.25 up to 1,00 l/min (0.3 gpm)
1.0 = 1.00 up to 3,80 l/min (1.0 gpm)
4.0 = 3.80 up to 15,0 l/min (4.0 gpm)

Adjustment option
V = adjustable by tool

Setting
none = 50% of maximal Nominal flow
0.1 = 0.23 l/min – optional pre-adjustment on request

Standard models

Name	Part No.
SR06-01-C-N-0.3V	2610213
SR06-01-C-N-1.0V	2610194
SR06-01-C-N-4.0V	2610214
Other types on request	

*Line bodies

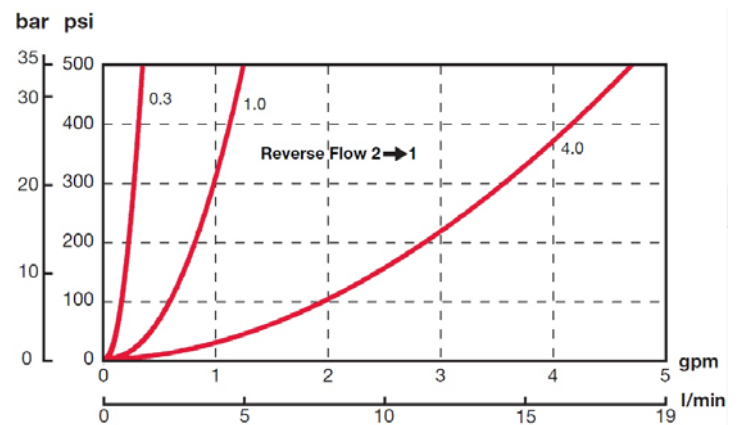
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C



Annotation
The technical information in this brochure are relating to the operating conditions and applications. At deviant applications and/or operating conditions please contact the technical dept. Technical information are subject to technical modifications.

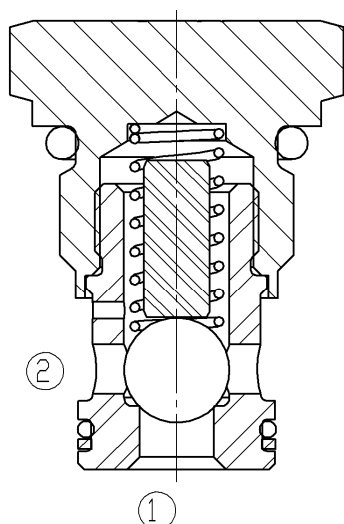
HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

SYMBOL



up to 20 l/min
up to 350 bar

FUNCTION



The check valve RV06A is a direct acting, spring loaded ball valve. In the valve the spring holds the ball in closed position and blocks the flow therefore from port 2 to 1. The valve opens, if the pressure at port 1 is higher than the pressure at port 2 including the spring force.

Check Valve

Ball type

Cartridge-Minivalve – 350 bar

RV06A-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Superior stability throughout the entire flow range

SPECIFICATIONS

Operating pressure:

max. 350 bar

Nominal flow:

max. 20 l/min

Cracking pressures:

0,35 bar

2,10 bar

Leakage:

leakage-free, < max. 0,35 cm³/min at nominal pressure

Temperature range of operating fluid:

Min. – 30°C up to max. +100° C

Ambient temperature range:

Min. – 30°C up to max. + 60° C

Fluid:

Hydraulic fluid to DIN 51524 T1 + T2

Viscosity range:

min. 7,4 mm²/s up to max. 420 mm²/s

Filtration:

Class 21 / 19 /16 according to ISO 4406 or cleaner

Installation:

no orientation restrictions

Materials:

Valve body: steel with hardened work surfaces

Ball: hardened steel

Seals: NBR (Standard)

FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

Cavity:

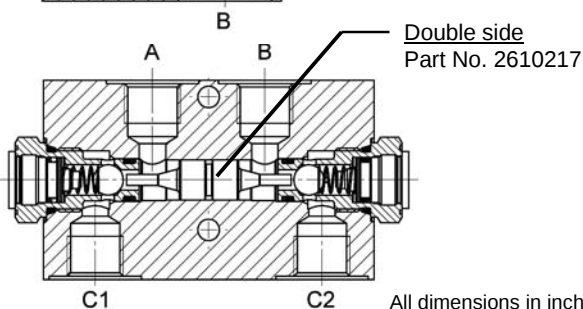
FC06-2

Weight:

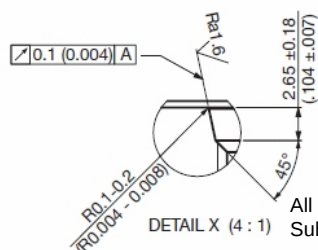
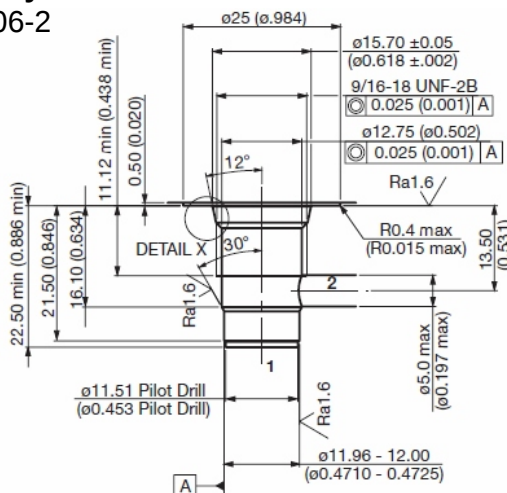
0,045 kg

Technical drawing of a 1/16 Hex Torque (12-15 ft lbs) (Torque16 - 20 Nm) showing dimensions and callouts:

- Overall height: 0.25 (6.4)
- Height of the hex head: 0.06 (1.5)
- Height of the main body: 0.82 (20.8)
- Callout 1: Points to the main body.
- Callout 2: Points to the hex head.
- Thread specification: 9/16-18 UNF-2A
- Inner diameter: $\varnothing 0.47$ ($\varnothing 11.9$)
- Outer diameter: $\varnothing 0.69$ ($\varnothing 17.5$)



Cavity
FC06-2



Code	Part No.
Twist drill	2582046
Countersink	2582047



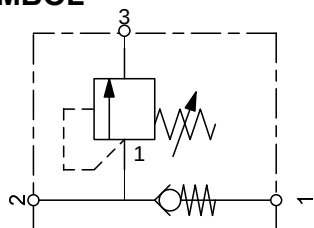
RV06A – 01 – C – N – 30

The graph illustrates the relationship between flow rate and pressure drop for a 1/2 inch diameter pipe. The x-axis represents flow rate in both gpm (0 to 5) and l/min (0 to 19). The y-axis represents pressure drop in both psi (0 to 300) and bar (0 to 20). A red curve shows the pressure drop increasing with flow rate.

Flow Rate (gpm)	Flow Rate (l/min)	Pressure Drop (psi)	Pressure Drop (bar)
0	0	0	0
1	3.8	40	2.8
2	7.6	160	11.2
3	11.4	360	25.1
4	15.1	640	44.5
5	18.8	1000	68.9

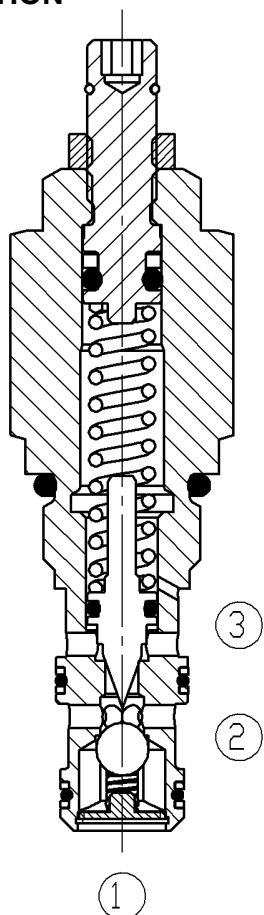
HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

SYMBOL



up to 20 l/min
up to 350 bar

FUNCTION



The check valve RV06C is a direct acting, spring loaded ball valve with integrated pressure relief valve. If there is no flow the spring holds the ball in closed position and blocks therefore flow from port 1 to 2. The check valve opens, if the pressure at port 2 is higher than the pressure at port 1 including the spring force. If the pressure rises in the inlet pipe over the pre-adjusted pressure the relief valve opens to tank. Any pressure at port 3 is additive to the relief pressure setting.

Check Valve

Ball type

with pressure relief function

Cartridge-Minivalve – 350 bar

RV06C-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Combination of two functions in one valve
- Pressure ranges up to 350 bar
- adjustable under full pressure
- fast closing
- protecting the system and the pump before pressure peaks
- Pressure relief with damped piston making the valve less prone to vibrations

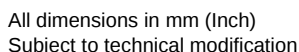
SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 20 l/min
Pressure ranges (DB):	0 up to 125 bar 0 up to 210 bar 35 up to 350 bar
Cracking pressure (check function):	0,35 bar
Leakage:	leakage-free, < max. 0,35 cm ³ /min at 75% nominal pressure
Temperature range of operating fluid:	Min. – 30°C up to max. +100° C
Ambient temperature range:	Min. – 30°C up to max. + 60° C
Fluid:	Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range:	min. 7,4 mm ² /s up to max. 420 mm ² /s
Filtration:	Class 21 / 19 /16 according to ISO 4406 or cleaner
MTTF _d :	150 years
Installation:	no orientation restrictions
Materials:	Valve body: steel with hardened work surfaces Piston: hardened and ground steel Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
	Back-up rings: TPE-E
Cavity:	FC06-3
Weight:	0,027 kg

Technical drawing of a 1/2 inch NPT female adapter. The drawing shows the side view of the component with various dimensions labeled in inches and millimeters. The dimensions are as follows:

- Total height: 1.55 Max. (39.4) Max.
- Height of the top hexagonal section: 1.09 (27.7)
- Height of the middle section: 0.13 (3.3)
- Height of the bottom section: 1.27 (32.3)
- Inner diameter of the bottom section: 0.44 (11.2)
- Outer diameter of the bottom section: 0.69 (17.5)
- Thread specification: 9/16-18 UNF-2A
- Inner diameter of the top section: 0.47 (11.9)

The drawing also includes a cross-section view of the bottom section, showing the internal threads and the outer diameter of the bottom section.



Code	Part No.
Twist drill	2582050
Countersink	2582051

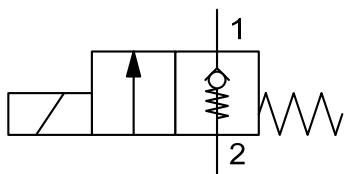


RV06C – 01 – C – N – 180 V 100

The graph illustrates the pressure drop (Δp) of a check function as a function of flow rate (Q). The y-axis represents pressure in both bar (0 to 16) and psi (0 to 240). The x-axis represents flow rate in both gpm (0 to 18) and l/min (0 to 5). A red curve shows the pressure drop increasing with flow rate.

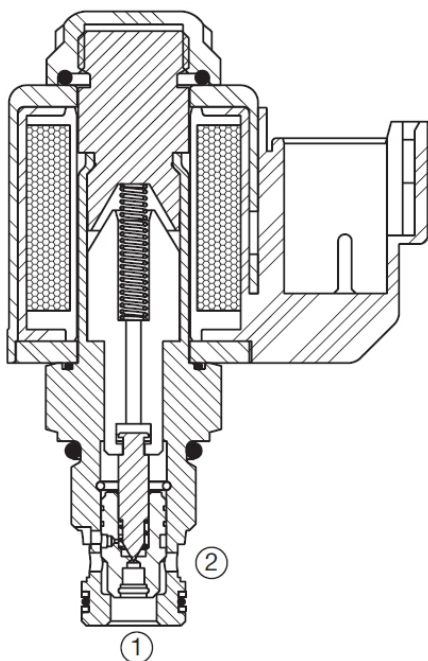
Flow Rate (Q)	Flow Rate (l/min)	Pressure Drop (Δp) (bar)	Pressure Drop (Δp) (psi)
0	0	0	0
1	3	~0.5	~7
2	6	~1.5	~21
3	9	~3.5	~50
4	12	~6.5	~94
5	15	~10.5	~152

SYMBOL



up to 20 l/min
up to 350 bar

FUNCTION



In de-energized mode the valve blocks flow from port 2 to 1.
In the opposite direction the valve piston opens at a pressure differential from approx. 1,8 bar (Check function).
If energized, there is flow from port 2 to 1. A backflow from port 1 to 2 is severely restricted.

2/2 Solenoid Directional Valve

Poppet type, pilot operated, normally closed

Cartridge-Minivalve – 350 bar

WS06Z-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTF_d:

Installation:

Materials:

max. 350 bar

max. 20 l/min

leakage-free, < max. 0,35 cm³/min at nominal pressure

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2

min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according

to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-2

Complete valve: 0,165 kg

Coil only: 0,088 kg

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

Switching time:

DC coil, AC voltage is rectified by a rectifier built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

+/- 15% of Coil voltage

100% continuous up to max.

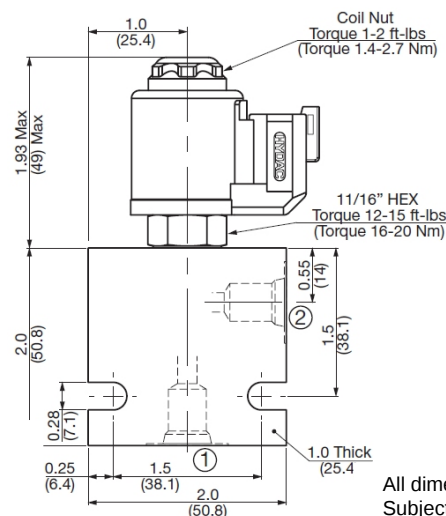
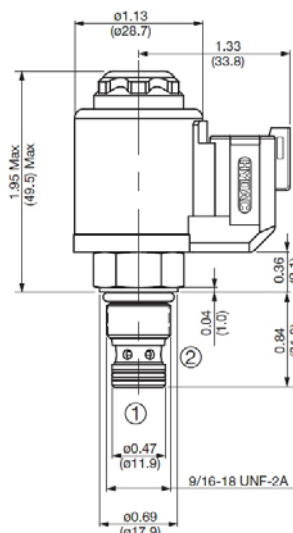
115% of Coil voltage at 60°C

ambient temperature

Energized: approx. 35 ms

De-energized: approx. 50 ms

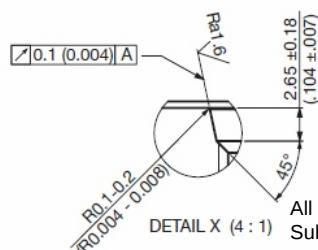
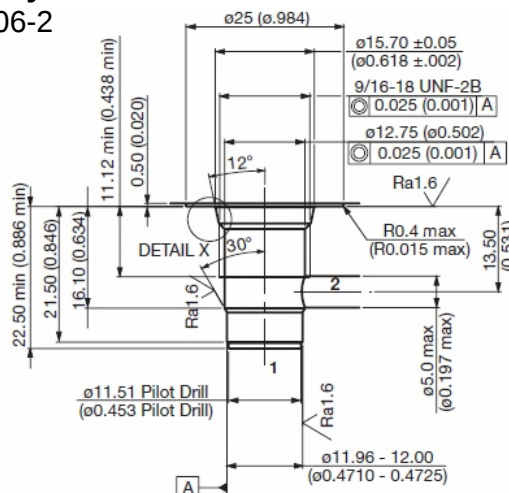
DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity

FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



MODEL CODE

WS06Z - 01M - C - N - 24 DN

Basic model

Directional poppet valve, pilot operated

Type

01 = Standard
01M = manual override
30 = with protection strainer around port 2

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WS06Z-01-C-N-0 without coil	2610237
(coil please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

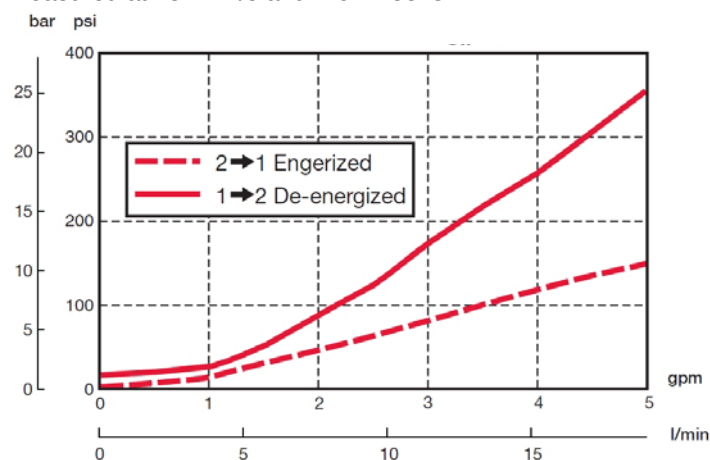
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C



Annotation

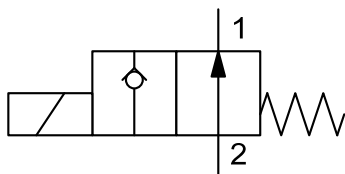
The technical information in this brochure are relating to the operating conditions and applications.

At deviant applications and/or operating conditions please contact the technical dept.

Technical information are subject to technical modifications.

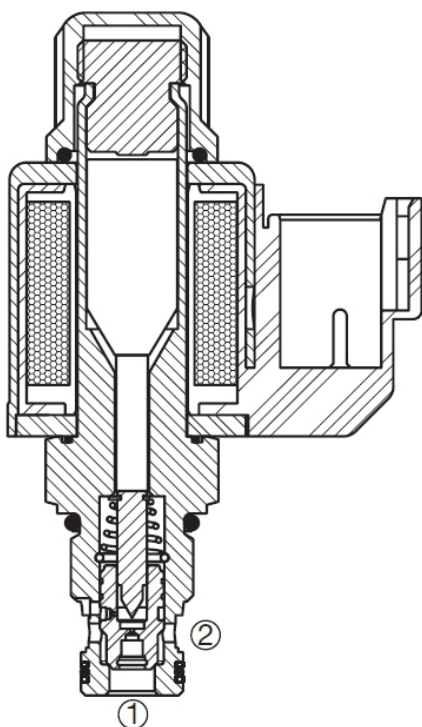
HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

SYMBOL



up to 20 l/min
up to 350 bar

FUNCTION



In de-energized mode there is flow from port 2 to 1.

If energized, the valve blocks flow from port 2 to 1.

In the opposite direction it opens if the pressure force on the piston is higher than the magnet force (approx. 9 up to 20 bar).

2/2 Solenoid Directional Valve

Poppet type, pilot operated, normally open

Cartridge-Minivalve – 350 bar

WS06Y-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTF_d:

Installation:

Materials:

max. 350 bar

max. 20 l/min

leakage-free, < max. 0,35 cm³/min at nominal pressure

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2
min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-2

Complete valve: 0,165 kg

Coil only: 0,088 kg

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

Switching time:

DC coil, AC voltage is rectified by a rectifier built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

+/- 15% of Coil voltage

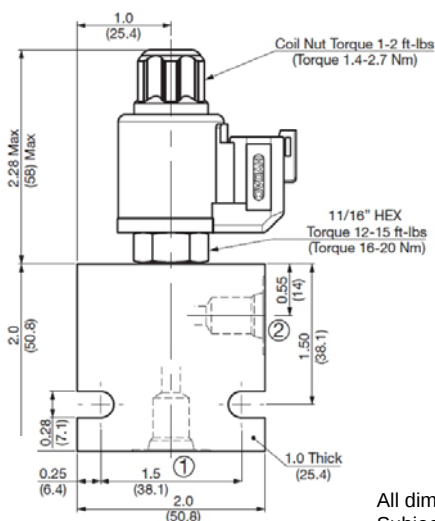
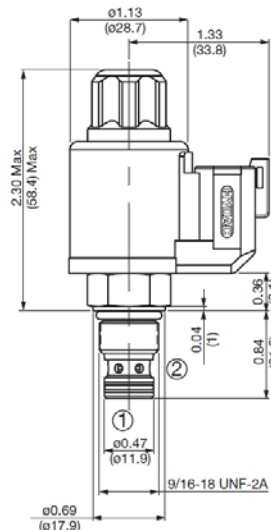
100% continuous up to max.

115% of Coil voltage at 60°C ambient temperature

Energized: approx. 50 ms

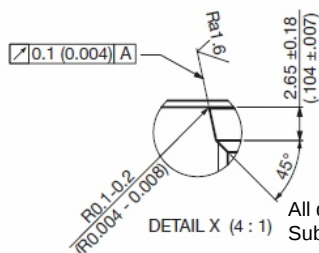
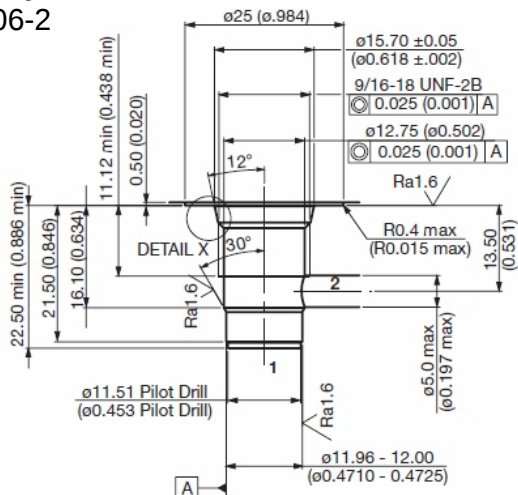
De-energized: approx. 35 ms

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



MODEL CODE

WS06Y-01M-C-N-24 DN

Basic model _____
directional poppet valve, pilot operated

Type _____
01 = Standard
01M = manual override
30 = with protection strainer around port 2

Body & ports _____
C = cartridge only
*versions in line bodies on request

Seals _____
N = NBR (Standard)
V = FKM (optional)

Coil voltage _____
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329) _____
DC: DG = DIN Plug to EN175301-803 Form B
DL = 2 leadwires, 450mm long
DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WS06Y-01-C-N-0 without coil	2610209
(coil please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

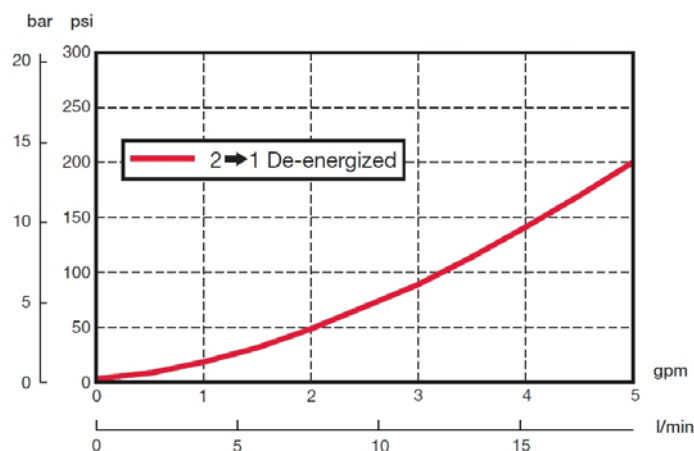
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

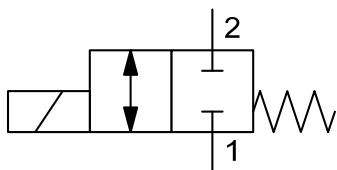
Measured at 28 mm²/s and T oil = 38°C



Annotation
The technical information in this brochure are relating to the operating conditions and applications. At deviant applications and/or operating conditions please contact the technical dept. Technical information are subject to technical modifications.

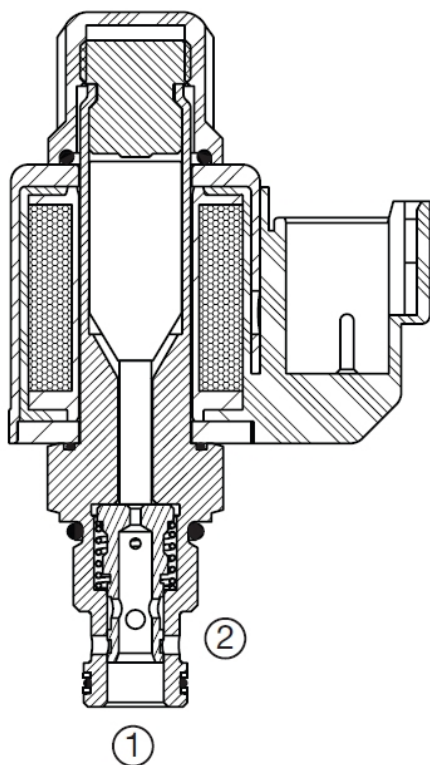
HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

SYMBOL



up to 10 l/min
up to 350 bar

FUNCTION



In de-energized mode the valve is blocked in both directions.
If energized, the valve opens and allows the flow in both directions.

2/2 Solenoid Directional Valve Spool type, direct acting, Cartridge-Minivalve – 350 bar WK06W-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTFd:

Installation:

Materials:

max. 350 bar

max. 10 l/min

< max. 90 cm³/min at 207 bar
and 28 mm²/s

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2
min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 / 16 according
to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel with hardened work
surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature
range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-2

Complete valve: 0,165 kg

Coil only: 0,088 kg

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

DC coil, AC voltage is rectified by a rectifier
built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

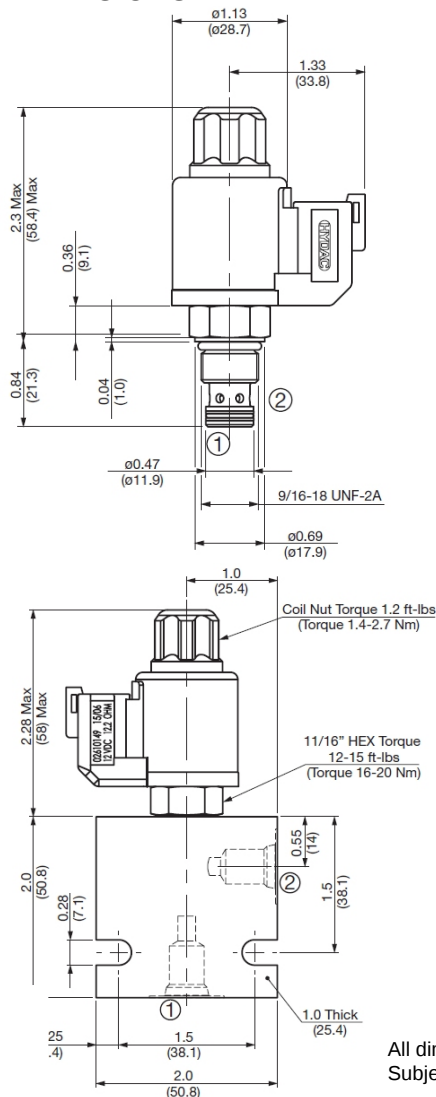
+/- 15% of Coil voltage

100% continuous up to max.

115% of Coil voltage at 60°C

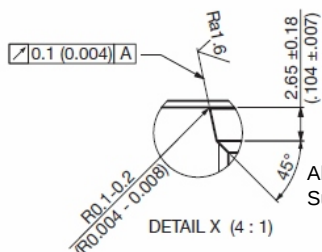
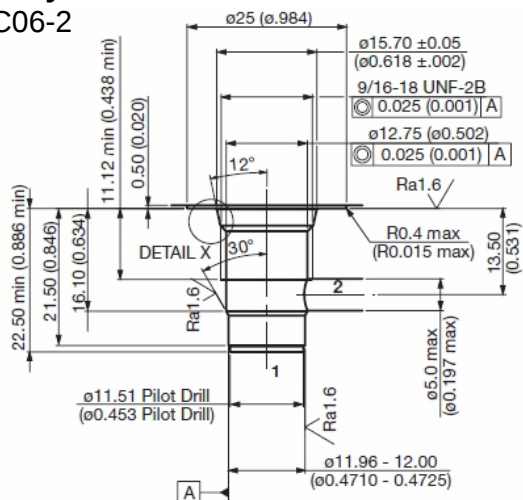
ambient temperature

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

MODEL CODE

WK06W - 01M - C - N - 24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06W-01-C-N-0 without coil	2610182
(coil please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

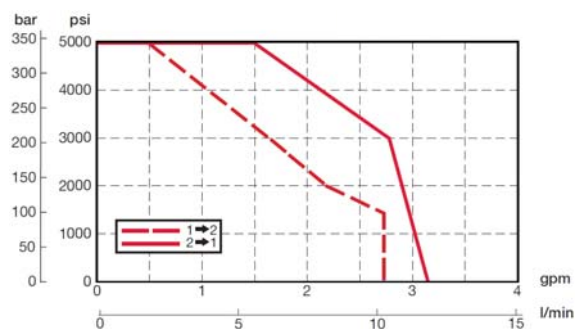
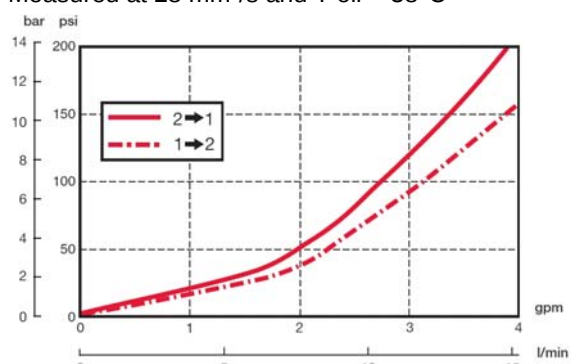
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

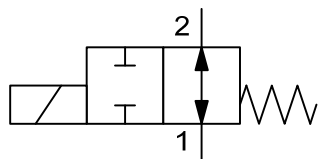
Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

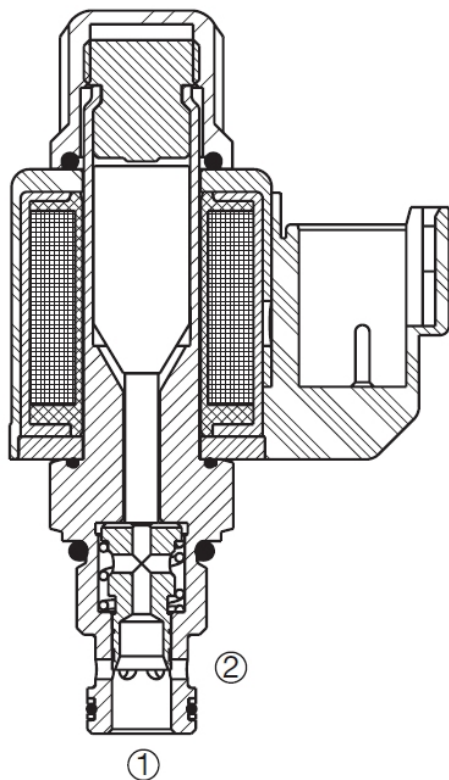


SYMBOL



up to 15 l/min
up to 350 bar

FUNCTION



In de-energized mode the valve is open in both directions.
If energized, the valve closes and blocks the flow in both directions.

2/2 Solenoid Directional valve Spool type, direct acting, Cartridge-Minivalve – 350 bar WK06V-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTFd:

Installation:

Materials:

max. 350 bar

max. 15 l/min

< max. 90 cm³/min at 207 bar
and 28 mm²/s

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2
min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 / 16 according
to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel with hardened work
surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature
range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-2

Complete valve: 0,170 kg

Coil only: 0,088 kg

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

Switching time:

DC coil, AC voltage is rectified by a rectifier
built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

+/- 15% of Coil voltage

100% continuous up to max.

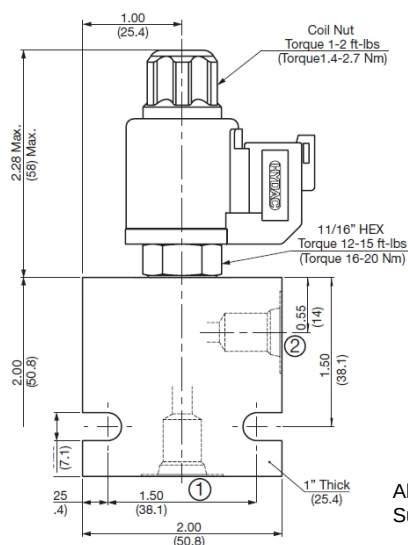
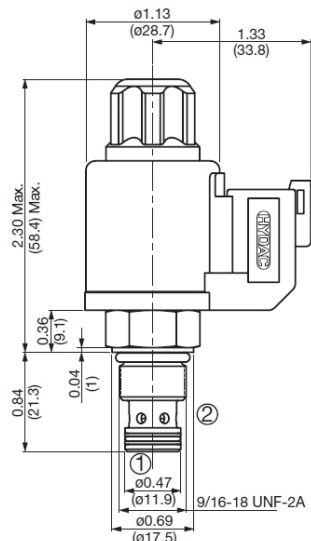
115% of Coil voltage at 60°C

ambient temperature

Energized: approx. 50 ms

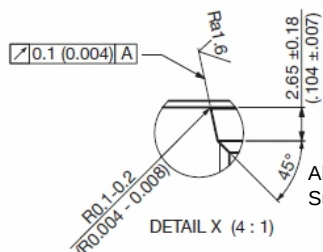
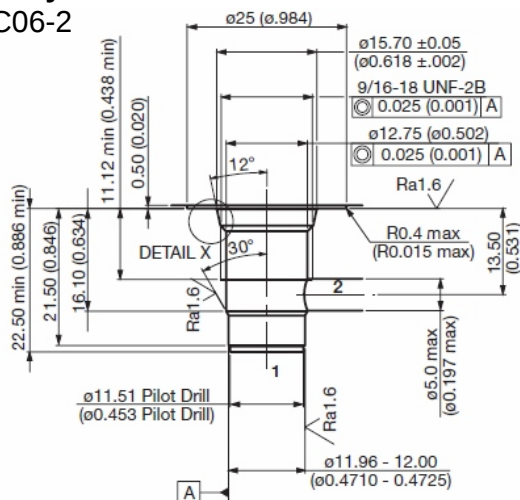
De-energized: approx. 35 ms

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-2



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582046
Countersink	2582047



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Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

MODEL CODE

WK06V-01M-C-N-24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06V-01-C-N-0 without coil	2610222
(coil please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

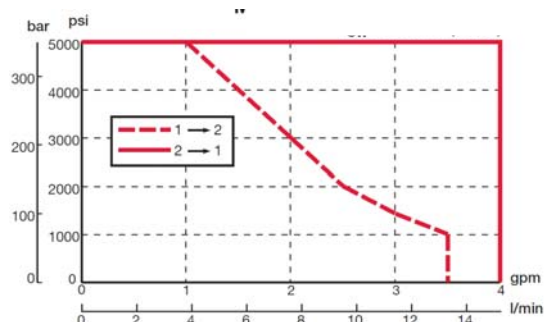
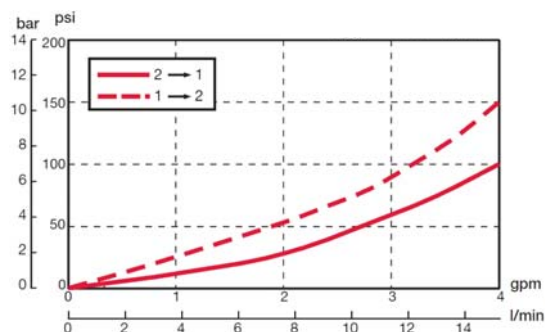
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

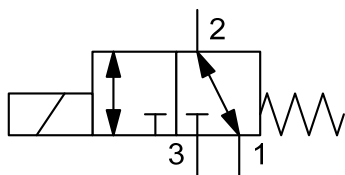
Code	Part No.
Seal kit-NBR	2610184
Seal kit-FKM	2610185

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

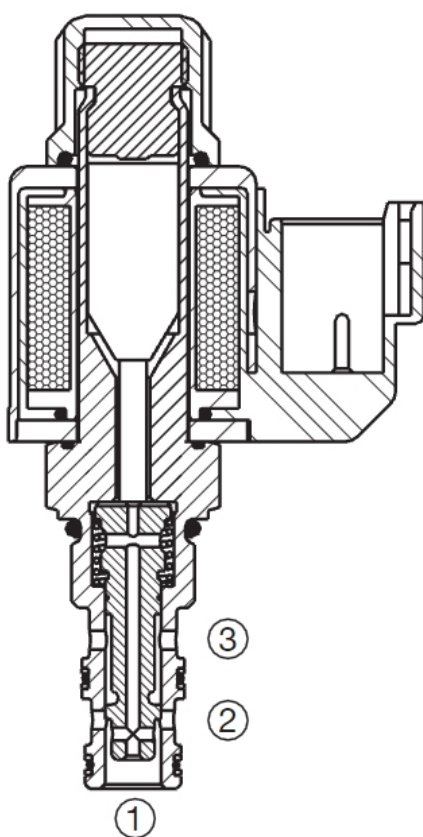


SYMBOL



up to 10 l/min
up to 350 bar

FUNCTION



In de-energized mode there is free flow from port 1 to 2 and in the opposite direction. Port 3 is closed. If energized, the valve allows flow from port 2 to 3 and in the opposite direction. Port 1 is closed.

3/2 Solenoid Directional Valve Spool type, direct acting Cartridge-Minivalve – 350 bar WK06C-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTF_d:

Installation:

Materials:

max. 350 bar

max. 10 l/min

< max. 90 cm³/min at 207 bar and 28 mm²/s

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2

min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-3

Complete valve: 0,175 kg

Coil only: 0,088 kg

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

Switching time:

DC coil, AC voltage is rectified by a rectifier built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

+/- 15% of Coil voltage

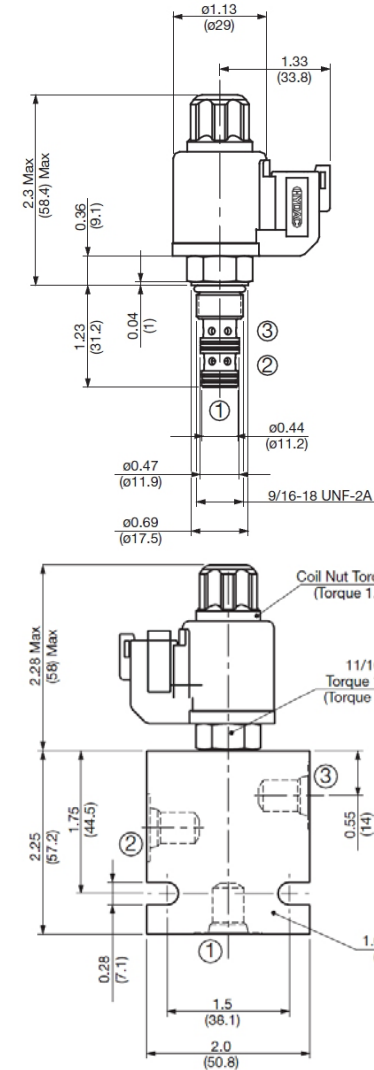
100% continuous up to max.

115% of Coil voltage at 60°C

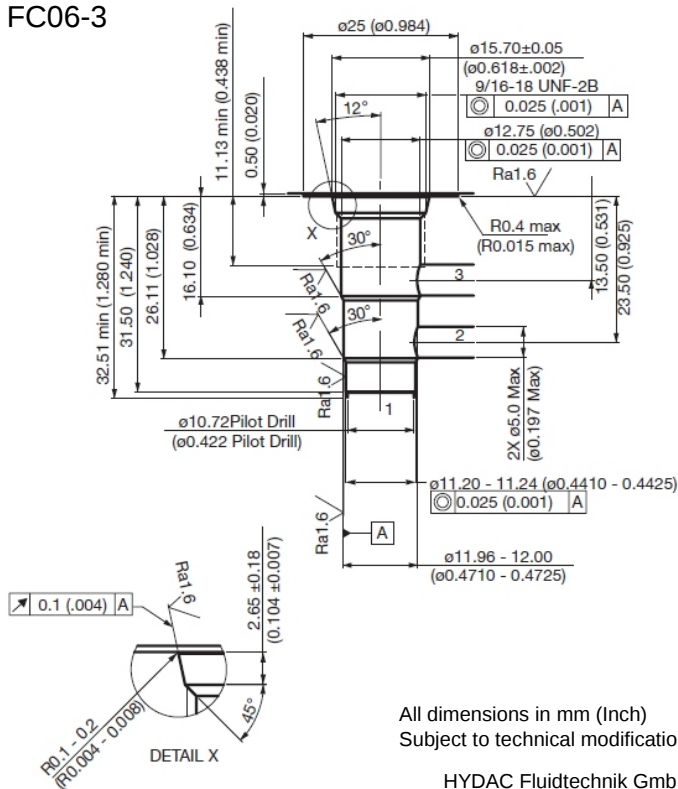
ambient temperature

Energized: approx. 30 - 60 ms

De-energized: approx. 20 - 40 ms



Cavity
FC06-3



Tools

Code	Part No.
Twist drill	2582050
Countersink	2582051

All dimensions in mm (Inch)
Subject to technical modification

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hydac.com

MODEL CODE

WK06C – Q1M – C – N – 24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06C-01-C-N-0 without coil	2610183
(coil please choose from brochure D 5.155.0)	
Other types on request	

***Line bodies**

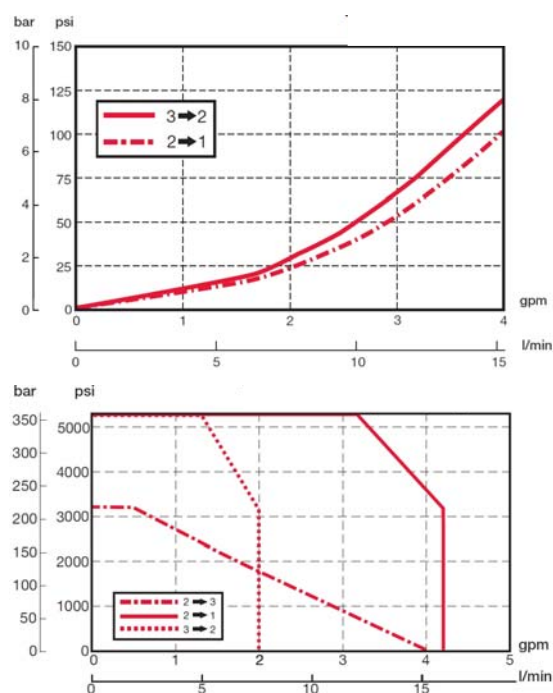
Code	Part No.	Material	Ports	Pressure
FH063-SB2	3740562	steel, zinc plated	G1/4	420 bar
FH063-AB2	3741286	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

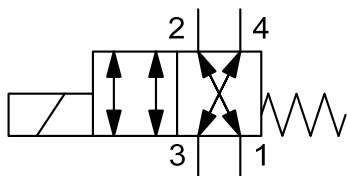
Code	Part No.
Seal kit-NBR	2610186
Seal kit-FKM	2610187

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

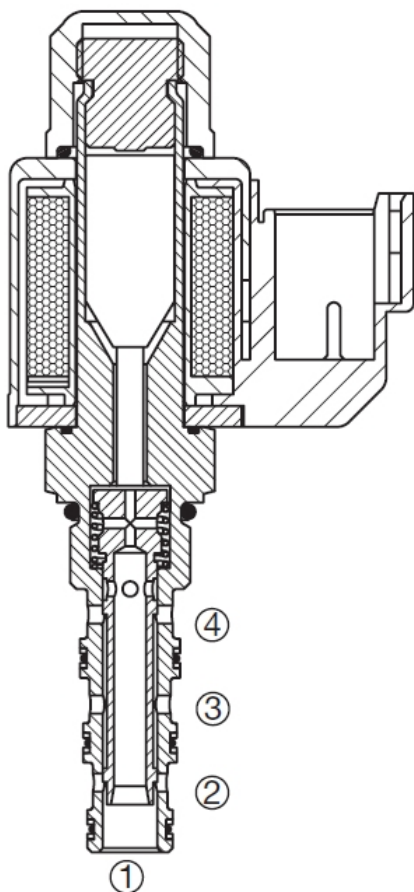


SYMBOL



up to 10 l/min
up to 350 bar

FUNCTION



In de-energized mode, the valve allows flow from port 1 to 2 and from 3 to 4 and also in the opposite direction. If energized, the valve allows flow from port 1 to 4 and from 3 to 2 and also in the opposite direction.

4/2 Solenoid Directional Valve Spool type, direct acting Cartridge-Minivalve – 350 bar WK06Y-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coil easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

Nominal flow:

Leakage:

Temperature range of operating fluid:

Ambient temperature range:

Fluid:

Viscosity range:

Filtration:

MTTF_d:

Installation:

Materials:

Cavity:

Weight:

Electrical data

Type of voltage:

Nominal current at 20°C:

Voltage tolerance:

Coil duty rating:

Switching time:

max. 350 bar

max. 10 l/min

< max. 100 cm³/min at 207 bar and 28 mm²/s

Min. – 30°C up to max. +100° C

Min. – 30°C up to max. + 60° C

Hydraulic fluid to DIN 51524 T1 + T2
min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 / 16 according
to ISO 4406 or cleaner

150 years

no orientation restrictions

Valve body: steel with hardened work
surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature
range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-4

Complete valve: 0,190 kg

Coil only: 0,088 kg

DC coil, AC voltage is rectified by a rectifier
built-in the plug

984 mA at 12 V DC

492 mA at 24 V DC

+/- 15% of Coil voltage

100% continuous up to max.

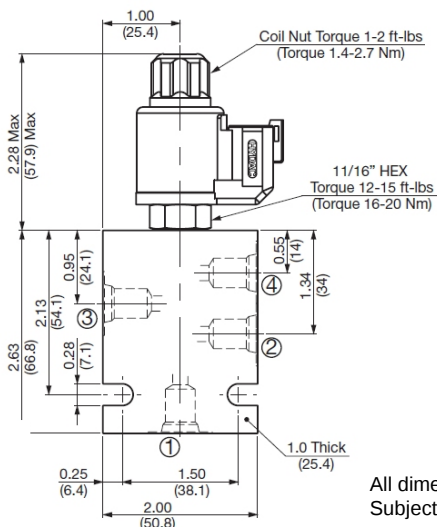
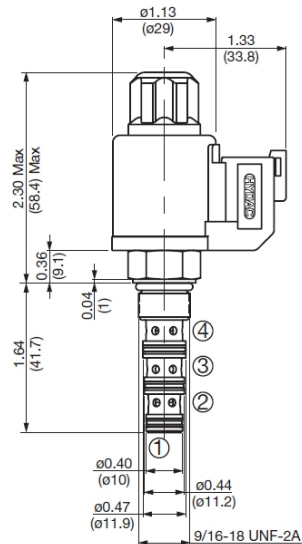
115% of Coil voltage at 60°C

ambient temperature

Energized: approx. 30 - 60 ms

De-energized: approx. 20 - 40 ms

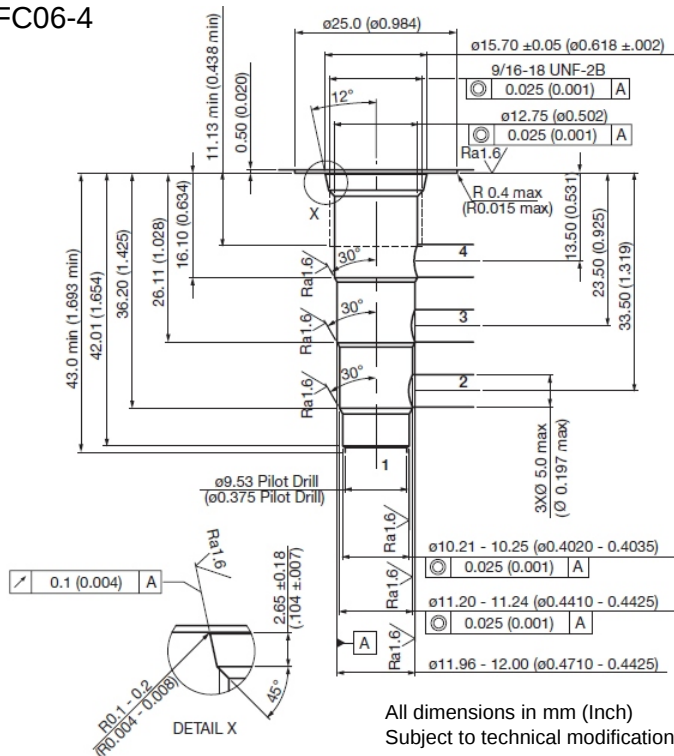
DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity

FC06-4



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582057
Countersink	2582058



HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

MODEL CODE

WK06Y - 01M - C - N - 24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06Y-01-C-N-0 without coil	2610203
(coil please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

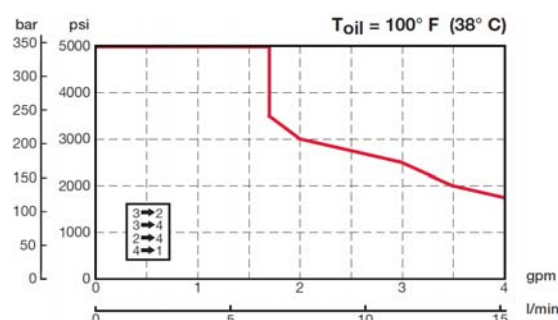
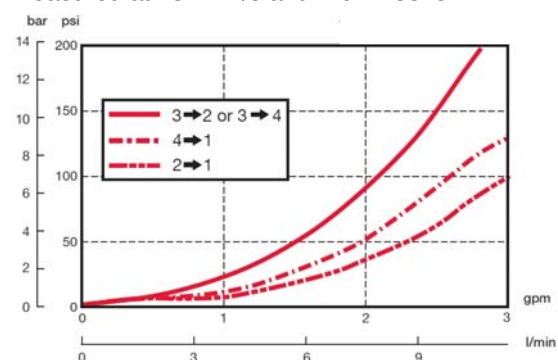
Code	Part No.	Material	Ports	Pressure
FH064-SB2	3740589	steel, zinc plated	G1/4	420 bar
FH064-AB2	3741315	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

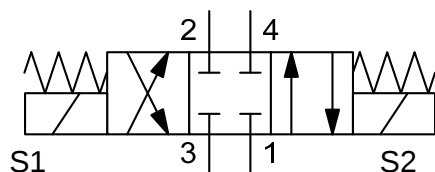
Code	Part No.
Seal kit-NBR	2610188
Seal kit-FKM	2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

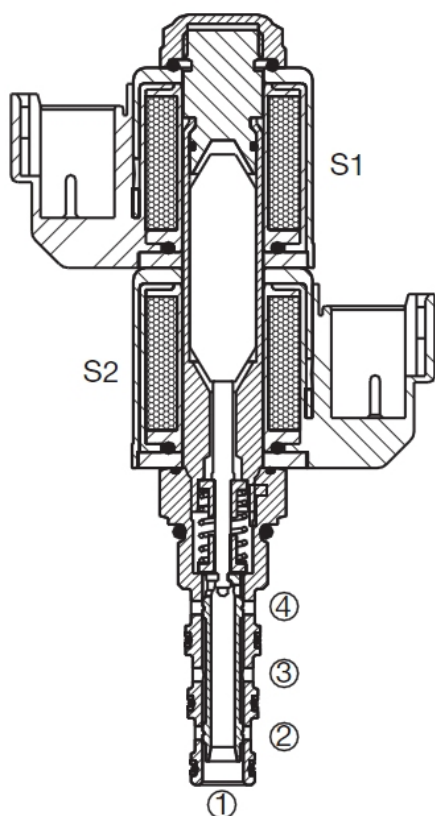


SYMBOL



up to 11 l/min
up to 350 bar

FUNCTION



In de-energized mode all ports are blocked.

If the coil S1 is energized, there is free flow from port 3 to 4 and from 2 to 1.

If the coil S2 is energized, there is flow from port 3 to 2 and from 4 to 1.

4/3 Solenoid Directional Valve Spool type, direct acting Cartridge-Minivalve – 350 bar WK06E-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

max. 350 bar
max. 210 bar at Tank (port 1)

Nominal flow:

max. 11 l/min

Leakage:

< max. 100 cm³/min at 207 bar and 28 mm²/s

Temperature range of operating fluid:

Min. – 30°C up to max. +100° C

Ambient temperature range:

Min. – 30°C up to max. + 60° C

Fluid:

Hydraulic fluid to DIN 51524 T1 + T2

Viscosity range:

min. 7,4 mm²/s up to max. 420 mm²/s

Filtration:

Class 21 / 19 /16 according to ISO 4406 or cleaner

MTTF_d:

150 years

Installation:

no orientation restrictions

Materials:

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-4

Complete valve: 0,374 kg

Coil only: 0,088 kg (2x)

Cavity:

Weight:

Electrical data

Type of voltage:

DC coil, AC voltage is rectified by a rectifier built-in the plug

Nominal current at 20°C:

984 mA at 12 V DC

492 mA at 24 V DC

Voltage tolerance:

+/- 15% of Coil voltage

Coil duty rating:

100% continuous up to max.

115% of Coil voltage at 60°C

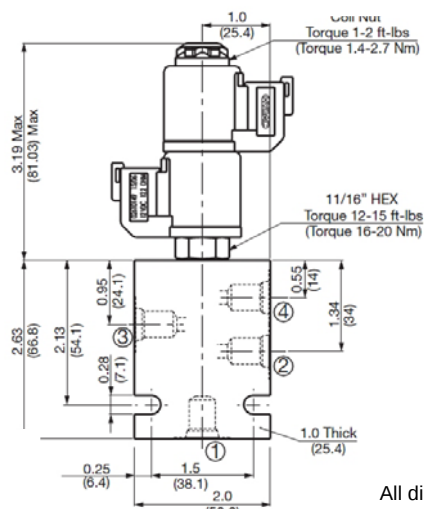
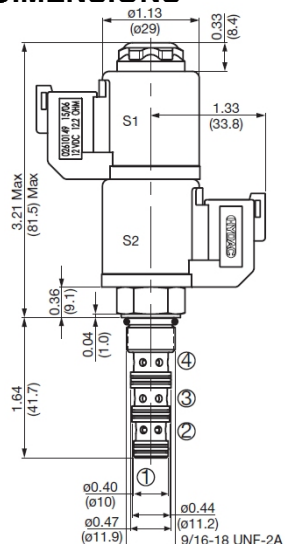
ambient temperature

Switching time:

Energized: approx. 30 - 60 ms

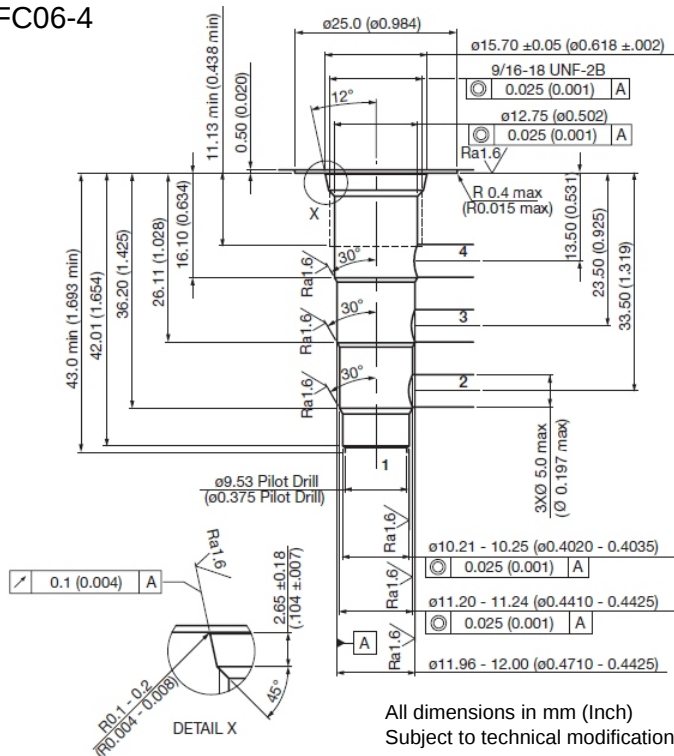
De-energized: approx. 20 - 40 ms

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-4



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582057
Countersink	2582058



HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

MODEL CODE

WK06E - 01M - C - N - 24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

01A = lockable manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06E-01-C-N-0 without coil	2610190
(coils please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

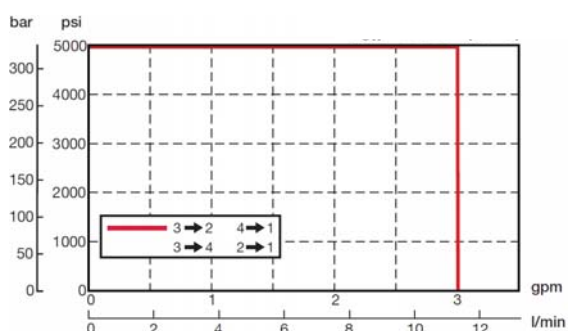
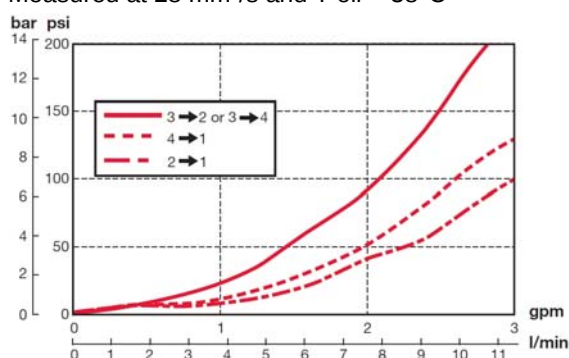
Code	Part No.	Material	Ports	Pressure
FH064-SB2	3740589	steel, zinc plated	G1/4	420 bar
FH064-AB2	3741315	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

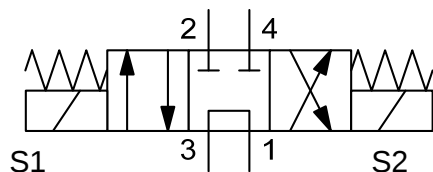
Code	Part No.
Seal kit-NBR	2610188
Seal kit-FKM	2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

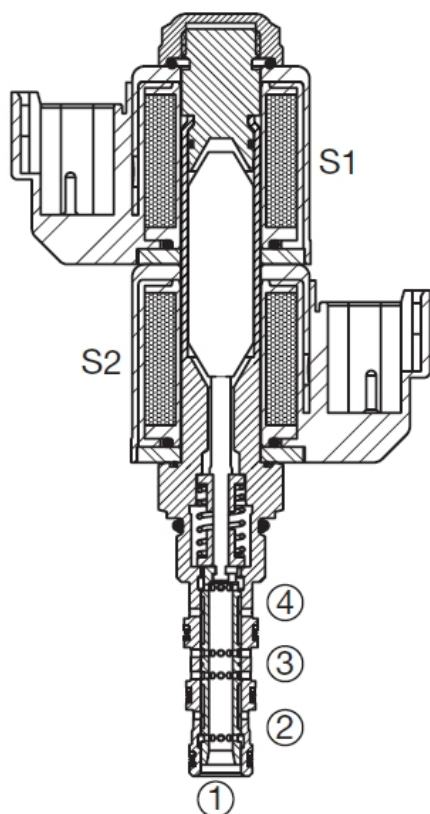


SYMBOL



up to 7 l/min
up to 350 bar

FUNCTION



In de-energized mode the ports 2 and 4 are blocked – whereas there is flow from port 3 to 1 and in opposite direction.

If the coil S1 is energized, there is flow from port 3 to 2 and from 4 to 1 .

If the coil S2 is energized, there is flow from port 3 to 4 and from 2 to 1 .

4/3 Solenoid Directional Valve Spool type, direct acting Cartridge-Minivalve – 350 bar WK06G-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

max. 350 bar

Nominal flow:

max. 210 bar at Tank (port 1)

Leakage:

max. 7 l/min

Temperature range of operating fluid:

< max. 100 cm³/min at 207 bar and 28 mm²/s

Ambient temperature range:

Min. – 30°C up to max. +100° C

Fluid:

Min. – 30°C up to max. + 60° C

Viscosity range:

Hydraulic fluid to DIN 51524 T1 + T2

Filtration:

min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according

to ISO 4406 or cleaner

MTTF_d:

150 years

Installation:

no orientation restrictions

Materials:

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature

range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-4

Complete valve: 0,374 kg

Coil only: 0,088 kg (2x)

Cavity:

Weight:

Electrical data

Type of voltage:

DC coil, AC voltage is rectified by a rectifier built-in the plug

Nominal current at 20°C:

984 mA at 12 V DC

492 mA at 24 V DC

Voltage tolerance:

+/- 15% of Coil voltage

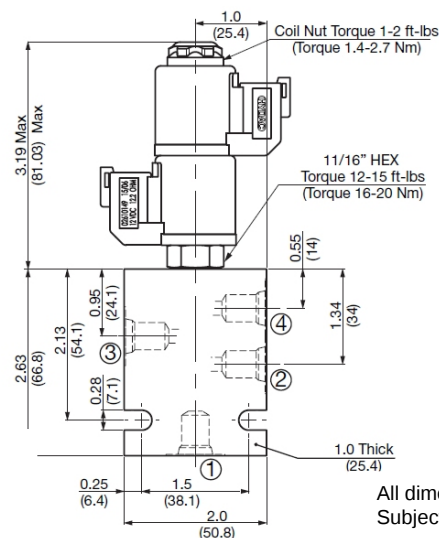
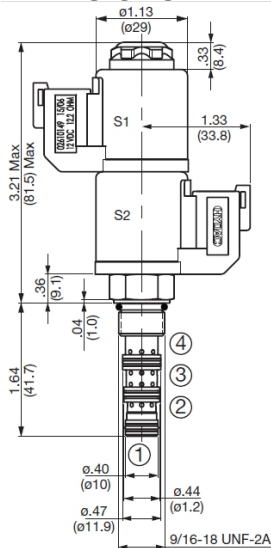
Coil duty rating:

100% continuous up to max.

115% of Coil voltage at 60°C

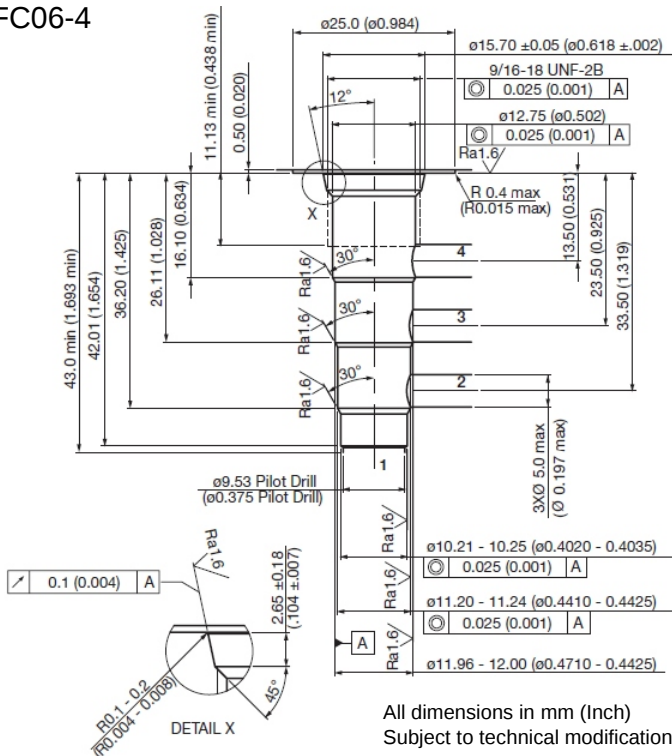
ambient temperature

DIMENSIONS



All dimensions in inch (mm)
Subject to technical modification

Cavity FC06-4



All dimensions in mm (Inch)
Subject to technical modification

Tools

Code	Part No.
Twist drill	2582057
Countersink	2582058



HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509-0
Fax: 06897 / 509-598
Email: flutec@hydac.com

MODEL CODE

WK06G - 01M - C - N - 24 DN

Basic model

Directional Spool type, direct acting

Type

01 = Standard

01M = manual override

01A = lockable manual override

Body & ports

C = cartridge only

*versions in line bodies on request

Seals

N = NBR (Standard)

V = FKM (optional)

Coil voltage

0 = without coil (with nut and Seals)

DC: 12 = 12 Volt DC voltage

24 = 24 Volt DC voltage

AC: 115 = 105 Volt DC voltage

230 = 205 Volt DC voltage (at AC voltage plug with suppressor diode necessary Mat. 2600582)

Coil connector (Coil... 32-1329)

DC: DG = DIN Plug to EN175301-803 Form B

DL = 2 leadwires, 450mm long

DN = Deutsch Plug, axial (Type DT04-2P)

Standard models

Code	Part No.
WK06G-01-C-N-0 without coil	2610192
(coils please choose from brochure D 5.155.0)	
Other types on request	

*Line bodies

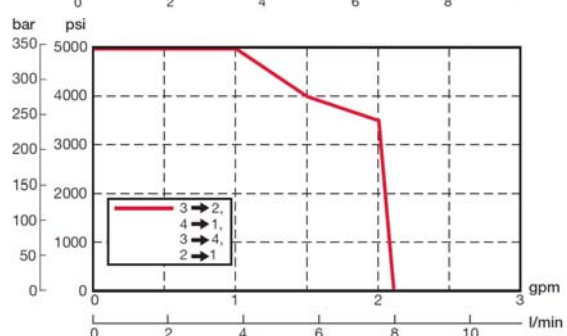
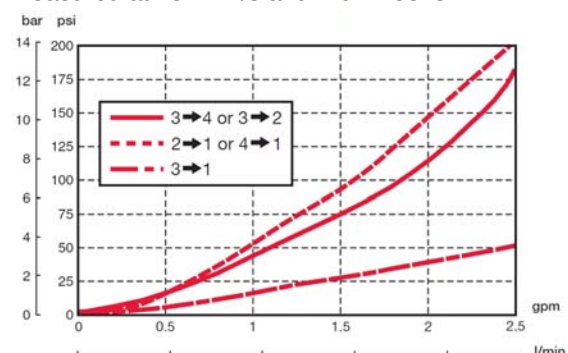
Code	Part No.	Material	Ports	Pressure
FH064-SB2	3740589	steel, zinc plated	G1/4	420 bar
FH064-AB2	3741315	Alu, anodized	G1/4	245 bar
other line bodies on request				

Seal kits

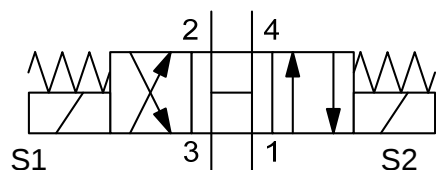
Code	Part No.
Seal kit-NBR	2610188
Seal kit-FKM	2610189

PERFORMANCE

Measured at 28 mm²/s and T oil = 38°C

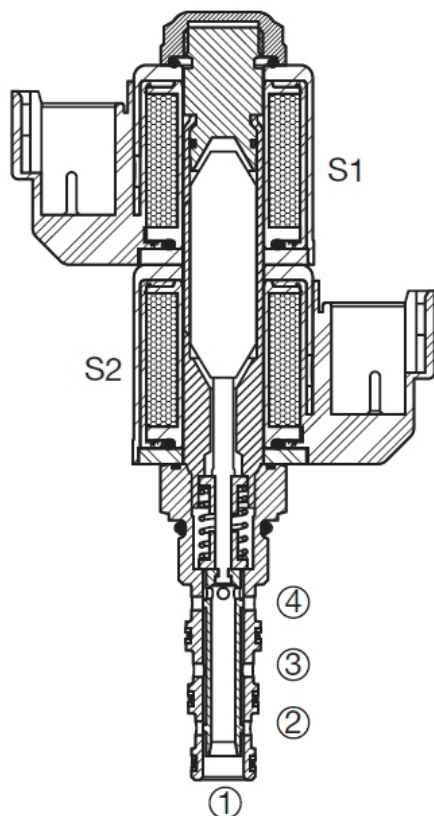


SYMBOL



up to 9 l/min
up to 350 bar

FUNCTION



In de-energized mode all ports are connected.

If the coil S1 is energized, there is flow from port 3 to 4 and from 2 to 1 .

If the coil S2 is energized, there is flow from port 3 to 2 and from 4 to 1 .

4/3 Solenoid Directional Valve Spool type, direct acting Cartridge-Minivalve – 350 bar WK06H-01

UNF

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:

max. 350 bar

Nominal flow:

max. 210 bar at Tank (port 1)

Leakage:

max. 9 l/min

Temperature range of operating fluid:

< max. 100 cm³/min at 207 bar and 28 mm²/s

Ambient temperature range:

Min. – 30°C up to max. +100° C

Fluid:

Min. – 30°C up to max. + 60° C

Viscosity range:

Hydraulic fluid to DIN 51524 T1 + T2

Filtration:

min. 7,4 mm²/s up to max. 420 mm²/s

Class 21 / 19 /16 according

to ISO 4406 or cleaner

MTTF_d:

150 years

Installation:

no orientation restrictions

Materials:

Valve body: steel with hardened work surfaces

Piston: hardened and ground steel

Seals: NBR (Standard)

FKM (optional, temperature

range -20°C up to +120°C)

Back-up rings: TPE-E

FC06-4

Complete valve: 0,374 kg

Coil only: 0,088 kg (2x)

Cavity:

Weight:

Electrical data

Type of voltage:

DC coil, AC voltage is rectified by a rectifier built-in the plug

Nominal current at 20°C:

984 mA at 12 V DC

492 mA at 24 V DC

Voltage tolerance:

+/- 15% of Coil voltage

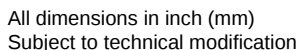
Coil duty rating:

100% continuous up to max.

115% of Coil voltage at 60°C ambient temperature

Technical drawing of the 9/16-18 UNF-2A connector. The drawing shows the front and side views with the following dimensions and labels:

- Top View Dimensions:**
 - Overall width: $\phi 1.13$ (ø29)
 - Top flange thickness: 0.33 (8.4)
 - Distance from top flange to center of S1: 1.33 (33.8)
- Front View Dimensions:**
 - Overall height: 3.21 Max (81.5) Max
 - Distance from base to top of S1: 1.64 (41.7)
 - Distance from base to top of S2: 0.36 (9.1)
 - Distance from base to top of S3: 0.04 (1.0)
- Labels:**
 - S1:** Label on the top flange.
 - S2:** Label on the main body.
 - S3:** Label on the bottom flange.
- Threaded Section Dimensions:**
 - Threaded section length: 1.64 (41.7)
 - Threaded section diameter: $\phi 0.40$ (ø10)
 - Threaded section diameter: $\phi 0.47$ (ø11.9)
 - Threaded section diameter: $\phi 0.44$ (ø11.2)
- Other Dimensions:**
 - Distance from base to top of S1: 0.36 (9.1)
 - Distance from base to top of S2: 0.04 (1.0)



C06-4

Technical drawing of a mechanical part, likely a shaft or pin, showing dimensions in mm (Inch). The drawing includes a main view and a detail view (DETAIL X).

Main View Dimensions:

- Overall Length: 43.0 min (1.693 min)
- Section 1: 1.61 (0.0634)
- Section 2: 26.11 (1.028)
- Section 3: 16.10 (0.634)
- Section 4: 11.13 min (0.438 min)
- Section 5: 0.50 (0.020)
- Section 6: 13.50 (0.531)
- Section 7: 23.50 (0.925)
- Section 8: 33.50 (1.319)

Keyway Dimensions:

- Width: 12°
- Depth: 30°
- Radius: R 0.4 max (R0.015 max)

Threaded Section Dimensions:

- Thread: 9/16-18 UNF-2B
- Major Diameter: ø15.70 ±0.05 (ø0.618 ±0.002)
- Pitch Diameter: ø12.75 (ø0.502)
- Pitch: 0.025 (0.001)

Surface Finish:

- General: Ra1.6
- Keyway: Ra0.025 (0.001)
- Thread: Ra0.015 (0.001)

Drill Hole Dimensions:

- Pilot Drill: ø9.53 (ø0.375)
- Final Drill: ø10.21 - 10.25 (ø0.4020 - 0.4035)
- Final Drill: ø11.20 - 11.24 (ø0.4410 - 0.4425)
- Final Drill: ø11.96 - 12.00 (ø0.4710 - 0.4425)

Detail View (DETAIL X):

- Chamfer: 45°
- Radius: R0.1 (R0.004)
- Hole: 0.1 (0.004)
- Surface Finish: Ra1.6

Surface Finish Legend:

- 0.1 (0.004) A
- 0.025 (0.001) A
- 0.025 (0.001) A
- 0.025 (0.001) A

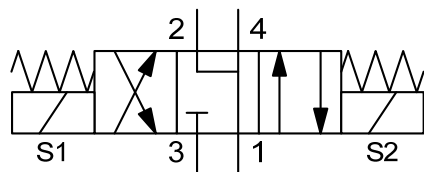
Notes:

- All dimensions in mm (Inch)
- Subject to technical modification

Code	Part No.
Twist drill	2582057
Countersink	2582058

33

SYMBOL



up to 11 l/min
up to 350 bar

4/3 Solenoid Directional Valve

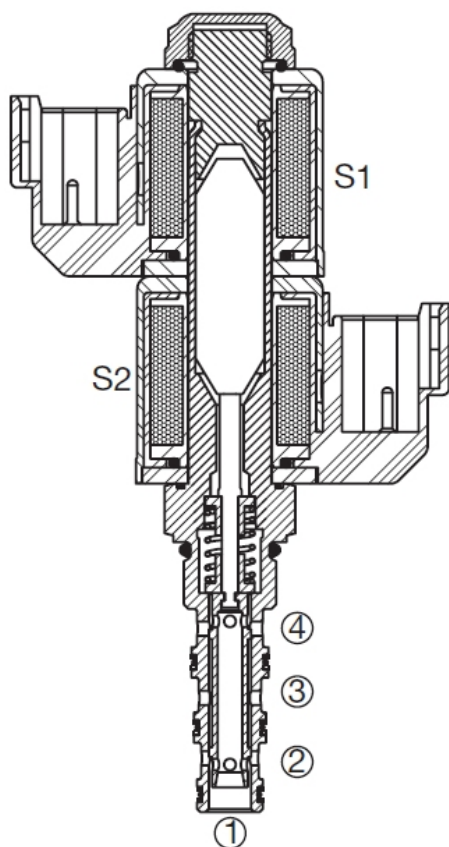
Spool type, direct acting

Cartridge-Minivalve – 350 bar

WK06J-01

UNF

FUNCTION



In de-energized mode the ports 2, 4 and 1 are connected, while port 3 is blocked.
If the coil S1 is energized, there is flow through the valve from port 3 to 4 and from 2 to 1.
If the coil S2 is energized, there is flow from port 3 to 2 and from 4 to 1.

FEATURES

- All exposed surfaces corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Coils easy to exchange and pivotable

SPECIFICATIONS

Operating pressure:	max. 350 bar max. 210 bar at Tank (port 1)
Nominal flow:	max. 11 l/min
Leakage:	< max. 100 cm ³ /min at 250 bar and 34 mm ² /s
Temperature range of operating fluid:	Min. – 30°C up to max. +100° C
Ambient temperature range:	Min. – 30°C up to max. + 60° C
Fluid:	Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range:	min. 7,4 mm ² /s up to max. 420 mm ² /s
Filtration:	Class 21 / 19 /16 according to ISO 4406 or cleaner
MTTF _d :	150 years
Installation:	no orientation restrictions
Materials:	Valve body: steel with hardened work surfaces Piston: hardened and ground steel Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Cavity:	Back-up rings: TPE-E
Weight:	FC06-4 Complete valve: 0,374 kg Coil only: 0,088 kg (2x)
Electrical data	
Type of voltage:	DC coil, AC voltage is rectified by a rectifier built-in the plug
Nominal current at 20°C:	984 mA at 12 V DC 492 mA at 24 V DC
Voltage tolerance:	+/- 15% of Coil voltage
Coil duty rating:	100% continuous up to max. 115% of Coil voltage at 60°C ambient temperature

Technical drawing of a mechanical part, likely a shaft or pin, showing dimensions and surface finish specifications.

Dimensions (mm):

- Overall length: 43.0 min (1.693 min)
- Section 1: 36.20 (1.425)
- Section 2: 26.11 (1.028)
- Section 3: 16.10 (0.634)
- Section 4: 13.50 (0.531)
- Section 5: 23.50 (0.925)
- Section 6: 33.50 (1.319)
- Section 7: 11.13 min (0.438 min)
- Section 8: 0.50
- Section 9: 12°
- Section 10: 30°
- Section 11: 30°
- Section 12: 30°
- Section 13: 30°
- Section 14: 30°
- Section 15: 30°
- Section 16: 30°
- Section 17: 30°
- Section 18: 30°
- Section 19: 30°
- Section 20: 30°
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- Section 22: 30°
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Surface Finish Specifications:

- Top surface: $\text{Ra} 1.6$
- Section 1: $\text{Ra} 1.6$
- Section 2: $\text{Ra} 1.6$
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- Section 100: $\text{Ra} 1.6$

Other Specifications:

- Top surface: $\text{$

WK06J – 01M – C – N – 24 DN

Basic model
Directional Spool type, direct acting

Type
01 = Standard
01M = manual override
01A = lockable manual override

Body & ports
C = cartridge only
*versions in line bodies on request

Seals
N = NBR (Standard)
V = FKM (optional)

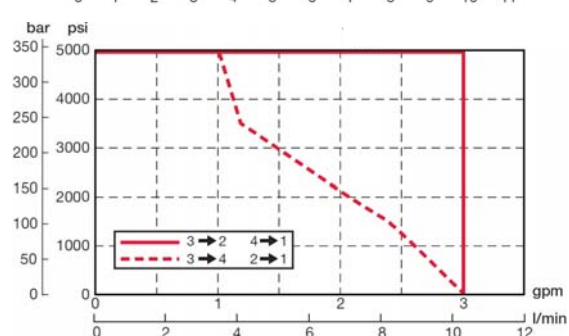
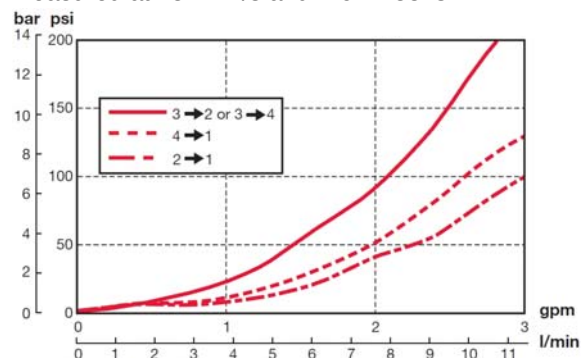
Coil voltage
0 = without coil (with nut and Seals)
DC: 12 = 12 Volt DC voltage
24 = 24 Volt DC voltage
AC: 115 = 105 Volt DC voltage
230 = 205 Volt DC voltage (at AC voltage
plug with suppressor diode necessary Mat. 2600582)

Code	Part No.
WK06J-01-C-N-0 without coil	2610191
(coils please choose from brochure D 5.155.0)	
Other types on request	

Code	Part No.	Material	Ports	Pressure
FH064-SB2	3740589	steel, zinc plated	G1/4	420 bar
FH064-AB2	3741315	Alu, anodized	G1/4	245 bar
other line bodies on request				

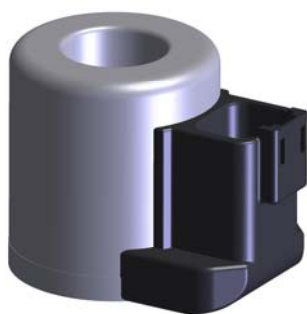
Code	Part No.
Seal kit-NBR	2610188
Seal kit-FKM	2610189

Measured at 28 mm²/s and T oil = 38°C



Code	Part No.	
Twist drill	2582057	
Countersink	2582058	

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hvdac.com



Coils for Minivalves (for solenoid operated directional valves) Type 32-1329

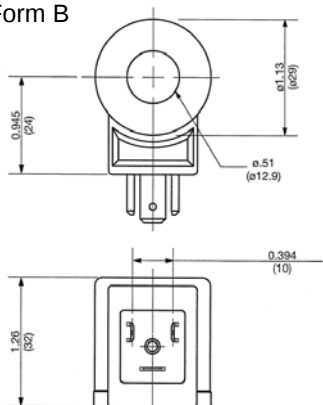
for following valves:

WS06Z
WK06W
WK06Y
WK06G
WK06J

WS06Y
WK06C
WK06E
WK06H

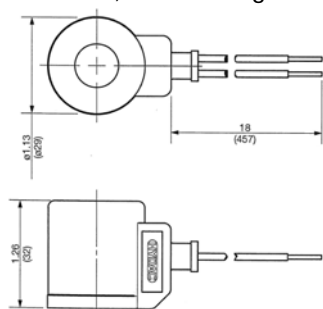
Connector type G

DIN Plug to EN175-301-803
Form B



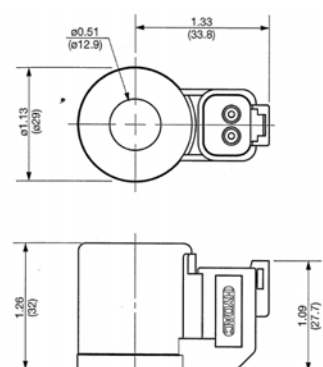
Connector type L

2 leadwires, 450mm long



Connector type N

Deutsch Plug, 2-poles (Type DT04-2P)



FEATURES-

- **Maximal force at minimal space requirement,**
by perfect wound coil - maximal copper : avoids damages of the insulation of the wires (breakdown by short-circuits)
- **Fully closed coil**
internal coil sealing avoids humidity and short-circuits in the winding
- **Designed for 100% coil duty rating**
at I_{max} and ambient temperatures from -20° up to +60°C
- **Small energy consumption**
by optimal design of force – energy ratio
- **High mechanical resistance,**
by zinc plated steel cover
- **High thermal stability,**
to U.L. class N (180°C)
- **Standardized 3 different electrical connectors**
with IP ratings IP65, IP67 and IP6K9K
DIN/EN Plug (G) IP65 Form B, leadwires (L) IP65/IP67/IP6K9K,
Deutsch Plug (N) IP65/IP67/IP6K9K
others on request
- **Mounting direction optional,**
by symmetrical coil design
- **Coil dimension = typification**
Type 32-1329 = 32mm high (13 mm inside Ø, 29 mm outside Ø)
- **Class UL 583 permitted coils available on demand**

SPECIFICATIONS

Coil duty rating:

100% continuous up to max.
115% of Coil voltage at max. 60° C
ambient temperature

Max. permitted temperature at coil:

160° C

Power intake:

12 W at I_{max} and 20° C
coil temperature

Windings:

to U.L. class N (180°C)

Outer shell:

steel, zinc plated

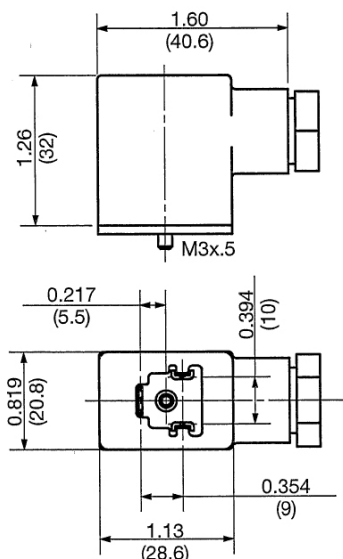
Plug socket:

Polyamide, black

(All data are valid for a coil mounted on valve)

Description

In general the coil is produced as DC coil.



DIN plug according to EN 175-803
Form B for:

Connection to DC power
Part. No. 2600570

Connection to AC power
Part. No. 2600582
with integrated rectifier

MODEL CODE

Basic model

Coil voltage

12 V DC
24 V DC
105 V DC (Only Connector type DG)
205 V DC (Only Connector type DG) (at AC voltage
Plug with suppressor diode necessary Mat. 2600582)

Type of voltage

D = DC voltage DC, directional valve

Coil connectors

G = Plug to EN175301-803 Form B, IP rating IP65
L = 2 leadwires, 0.75mm², 450mm (18") long
IP rating IP65 /IP67/IP6K9K
N = Deutsch Plug, 2-poles, (DT04-2P) IP rating IP65/IP67/IP6K9K
Other coil connectors on request

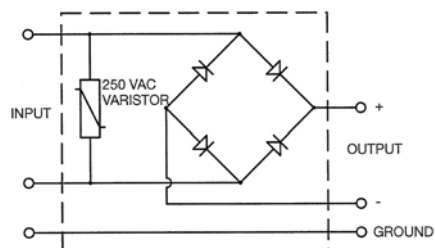
Variation (depending on connector)

omission = Standard
01, 02... = e. g. suppressor diode, different cable lengths, etc...
others on request

Typification

32-1329 = main measures (Height, inner diameter, outer diameter)

The model code only serves for your information, available products see chart.



Codes and corresponding Part No's.

Nominal voltage (Volt)	Coil power (Watt)	Resis- tance (Ohm)	Nominal current (Amp.)	Part No's for connector		
				DIN (G)	leadwires (L)	Deutsch (N)
12 V DC	12	12,2	0,98		2610160	2610151
				with suppressor diode	2610268	2610267
24 V DC	12	48,7	0,49		2610161	2610162
				with suppressor diode	2610269	2610266
115 V AC*	12	980	0,11		2610156*	--
230 V AC*	12	3700	0,06		2610159*	--

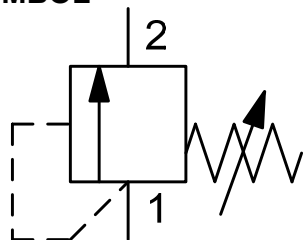
•If using AC voltage a plug (Part no. 2600582) with rectifier is necessary
Other connectors on request.

Annotation

The technical information in this brochure are relating to the operating conditions and applications.
At deviant applications and/or operating conditions please contact the technical dept.
Technical information are subject to technical modifications.

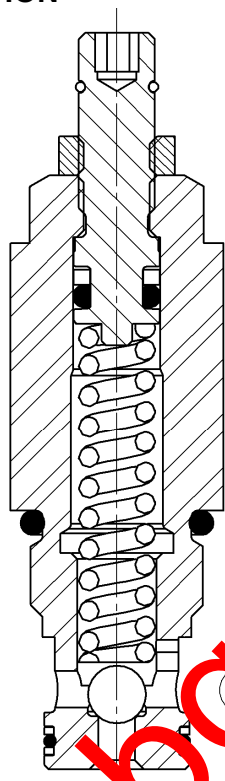
HYDAC Fluidtechnik GmbH
Juistus-von-Liebig-Str.
D-66280 Sulzbach/Saar
Tel. 06897 / 509-01
Fax 06897 / 509 598
E-Mail: flutec@hydac.com

SYMBOL



up to 15 l/min
up to 350 bar

FUNCTION



The Pressure relief valve DB06A is a direct acting, spring loaded ball valve. Its job is to limit the pressure in the system. The spring acts with a certain force on the ball and presses it on the valve seat. On the opposite side the system pressure works at port 1. If the hydraulic force is lower than the spring pressure the valve remains closed. Only if the force is higher, the valve opens and the flow will be let to port 2 (tank). If the system pressure is equal to the spring pressure the valve closes again.

Attention: Pressure at port 2 increases the opening pressure! If ports are interchanged or the pressure adjustment is higher than the operating pressure, the function of the valve is invalid.

Pressure Relief Valve Ball type, direct acting Cartridge-Minivalve – 350 bar DB06A-01

UNF

FEATURES

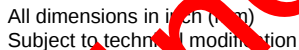
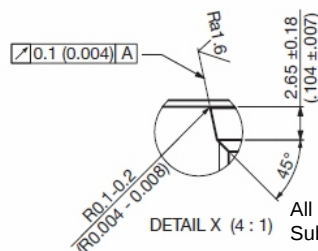
- All exposed surfaces corrosion proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Quick response
- Adjustable under full system pressure
- Adjustable across the entire pressure range
- Various pressure ranges up to 350 bar
- Foreseen for the maximal pressure protection of the system

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 15 l/min
Pressure ranges:	0 up to 125 bar 0 up to 210 bar 35 up to 350 bar
Leakage:	leakage-free, < max. 0,35 cm ³ /min at 75% nominal pressure
Temperature range of operating fluid:	Min. – 30°C up to max. +100° C
Ambient temperature range:	Min. – 30°C up to max. + 60° C
Fluid:	Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range:	min. 7,4 mm ² /s up to max. 420 mm ² /s
Filtration:	Class 21 / 19 /16 according to ISO 4406 or cleaner
Installation:	no orientation restrictions
Materials:	Valve body: steel with hardened work surfaces Ball: hardened steel Seals: NBR (Standard) FKM (optional, temperature range -20°C up to +120°C)
Back-up rings:	TPE-E
Cavity:	FC06-2
Weight:	0,068 kg

Technical drawing of a 1/2" NPT female adapter. The drawing shows the side view of the component with the following dimensions:

- Total height: 1.55 MAX (39.4) MAX
- Height of the hexagonal body: 1.09 (27.7)
- Height of the lower section: 0.84 (21.3)
- Height of the lower section (excluding the bottom flange): 0.13 (3.3)
- Inner diameter of the lower section: ϕ 0.47 (Ø 11.9)
- Outer diameter of the lower section: ϕ 0.69 (Ø 17.5)
- Thread specification: 9/16-18 UNF-2A

[illegible]

All dimensions in mm (Inch)
Subject to technical modification

Code	Part No.
Twist drill	2582046
Countersink	2582047



DB06A – 01 – Ç – N – 300 V 100

Type _____
01 = Standard

Body & ports _____
C = cartridge only
*versions in line bodies on request

Seals _____
N = NBR (Standard)
V = FKM (optional)

Pressure range

180 = 0 up to 125 bar (1800PSI)
300 = 0 up to 210 bar (3000PSI)
500 = 35 up to 350 bar (5000PSI)

Adjustment option τ
 V = adjustable by teacher

Setting

omission = 50% of max. Pressure

100 = factory preset, pressure in PSI (/10)

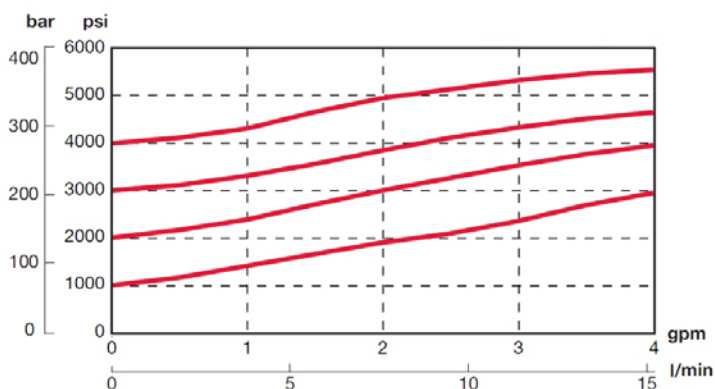
Other pressures on request

Name	Part No.
B06A-01-C-N-180V	2610428
B06A-01-C-N-300V	2610235
B06A-01-C-N-500V	2610155
Other types on request	

Line bodies				
Code	Part No.	Material	Ports	Pressure
FH062-SB2	3740528	steel, zinc plated	G1/4	420 bar
FH062-AB2	3741297	Alu, anodized	G1/4	245 bar
other line bodies on request				

Code	Part No.
Seal kit-NBR	2610184
Seal kit-EKM	2610185

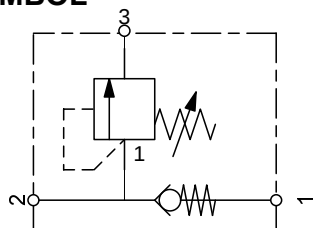
Measured at 28 mm²/s and T oil = 38°C



Annotation
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At deviant applications and/or operating conditions please contact the technical dept.
Technical information are subject to technical modifications.

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hvdac.com

SYMBOL

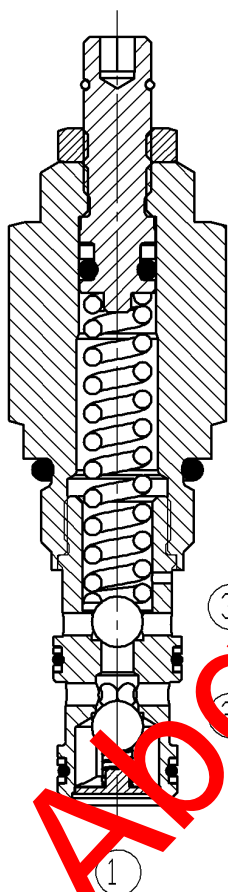


up to 15 l/min
up to 350 bar

Check Valve Ball type with pressure relief function Cartridge-Minivalve – 350 bar RV06B-01

UNF

FUNCTION



The check valve RV06B is a direct acting, spring loaded ball valve with integrated pressure relief valve. If there is no flow the spring holds the ball in closed position and blocks therefore flow from port 1 to 2. The check valve opens, if the pressure at port 2 is higher than the pressure at port 1 including the spring force. If the pressure rises in the inlet pipe over the pre-adjusted pressure the relief valve opens to tank. Any pressure at port 3 is additive to the relief pressure setting.

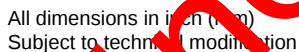
FEATURES

- All exposed surfaces corrosion proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extend service life
- Combination of two functions in one valve
- Pressure ranges up to 350 bar
- adjustable under full pressure
- fast closing
- protecting the system and the pump before pressure peaks

SPECIFICATIONS

Operating pressure:	max. 350 bar
Nominal flow:	max. 15 l/min
Pressure ranges (DB):	0 up to 125 bar
	0 up to 210 bar
	0 up to 350 bar
Cracking pressure (Checkfunction):	0,35 bar
Leakage:	leakage-free, < max. 0,35 cm ³ /min at 75% nominal pressure
Temperature range of operating fluid:	Min. – 30°C up to max. +100° C
Ambient temperature range:	Min. – 30°C up to max. + 60° C
Fluid:	Hydraulic fluid to DIN 51524 T1 + T2
Viscosity range:	min. 7,4 mm ² /s up to max. 420 mm ² /s
Filtration:	Class 21 / 19 /16 according to ISO 4406 or cleaner
Installation:	no orientation restrictions
Materials:	Valve body: steel with hardened work surfaces
	Ball: hardened steel
	Seals: NBR (Standard)
	FKM (optional, temperature range -20°C up to +120°C)
	Back-up rings: TPE-E
Cavity:	FC06-3
Weight:	0,027 kg

Technical drawing of the 9/16-18 UNF-2A plug-in connector. The drawing shows a side view of the connector with dimensions in inches and millimeters. Key dimensions include: total height 1.55 MAX. (39.4 MAX.), height of the hex nut 1.09 (27.7), height of the plug-in body 1.27 (32.3), and a small offset 0.13 (3.3). The plug-in body has three sections labeled 1, 2, and 3. Section 1 has a diameter of 0.47 (11.9). Section 2 has a diameter of 0.44 (11.2). Section 3 has a diameter of 0.69 (17.5). The thread specification is 9/16-18 UNF-2A.

[illegible]

Code	Part No.
Twist drill	2582050
Countersink	2582051

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str. 5
66280 Sulzbach / Saar
Tel.: 06897 / 509 -0
Fax: 06897 / 509 -598
Email: flutec@hvdac.com

RV06B - 01 - C - N - 300 V 100

Type _____
01 = Standard

Body & ports _____
C = cartridge only
*versions in line bodies on request

Seals _____
N = NBR (Standard)
V = FKM (optional)

Pressure ranges

180 = 0 up to 125 bar (3000 PSI)
300 = 0 up to 210 bar (3000 PSI)
500 = 0 up to 350 bar (5000 PSI)

Adjustment option —
V = adjustable by teacher

Setting
none = 50% of max. Pressure
100 = 69 bar (1000 PSI) – factory preset pressure

Standard models	Part No.
RV06-01-C-N-300V	2610236
RV06B-01-C-N-500V	2610164
Other types on request	

*L... bodies

Code	Part No.	Material	Ports	Pressure
FH063-SB2	3740562	steel, zinc plated	G1/4	420 bar
FH063-AB2	3741286	Alu, anodized	G1/4	245 bar
other line bodies on request				

Code	Part No.
Seal kit-NBR	2610186
Seal kit-EKM	2610187

Measured at 28 mm²/s and T oil = 38°C

