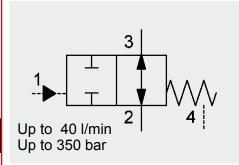
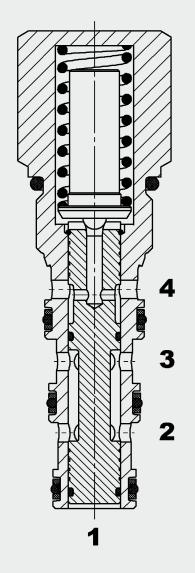
PACINTERNATIONAL



2/2 Directional Spool Valve Hydraulically-Operated **Direct-Acting Normally Open** SAE-10 Čartridge – 350 bar

WKH10V/14

FUNCTION



FEATURES

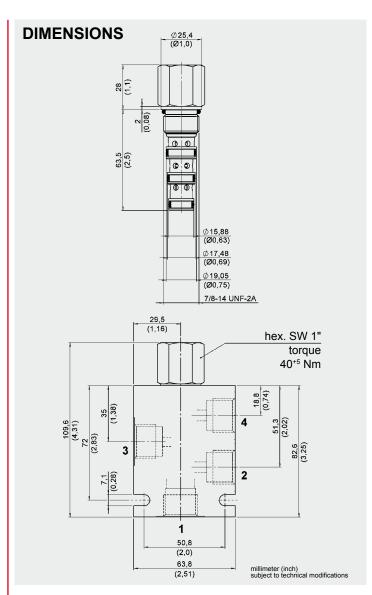
- Low pressure drop throughout flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life

SPECIFICATIONS Operating pressure:

Operating pressure:	max. 350 bar		
Nominal flow:	max. 40 l/min		
Internal leakage:	max. 200 cm³/min at 350 bar and 36 mm²/s		
Media operating temperature range:	min30 °C to +100 °C		
Ambient temperature range:	min30 °C to +80 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity:	min. 7.4mm²/s to max. 420mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Materials:	Valve body: steel		
	Spool:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Back-up	PTFE	
	ring:		
Cavity:	FC10-4		
Weight:	approx. 0.192 kg		

The WKH10V is a hydraulicallyoperated, 2/2 directional valve. Valve is normally open, i.e. free flow between ports 3 and 2 in both directions.

When there is an increase in pressure at port 1 against the spring force, the valve closes in both directions. Any pressure at port 4 is additive to the spring value.



CAVITY FC10-4 ø30 (ø1.181) 10.1(0.004) A 7/8-14UNF-2B ø19.05 *0.05 (ø0.750 *0.002 / 0.05(0.002) A (1) 1.01 **a** 26 (1.9)mir (2,500) 55.4 (2.18) 60° X 5:1 ø15.49 / 0.05(0.002) A / 0.1(0.004) A Ø17.48 +0.05 (Ø0.688 +0.002) Form tools Part No. Tool Countersink 176174 176175 Reamer millimeter (inch) subject to technical modifications

MODEL CODE WKH 10 V / 14 - 01 - C - NS - 070 Basic model Directional valve, hydraulically operated Cavity Symbol -= normally open Internal pressure pilot 14 = port 1 and port 4 Type — 01 = standard Body and ports* = cartridge only Versions with bodies on request* Seals N = NBR (standard) NS = NBR standard with additional O-ring on control spool = FKM (optional) VS = FKM standard with additional O-ring on control spool Switch pressure 70 = 4.8 bar (70 PSI) 90 = 6.2 bar (90 PSI) 30 = 9 bar (130 PSI) 180 = 12.4 bar (180 PSI)

Standard models

Model code	Part No.
WKH10V/14-01-C-N-070	3633166
WKH10V/14-01-C-N-090	3633167
WKH10V/14-01-C-N-130	3633168
WKH10V/14-01-C-N-180	3633170

Higher switch pressures on version with O-ring on control spool!

Other models on request

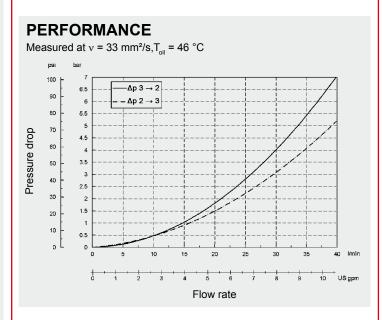
*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH104-SB4	3037784	Steel, zinc-plated	1/2 BSP	420 bar
FH104-AB4	3038097	Aluminium, anodized	1/2 BSP	210 bar

Other line bodies on request

Seal kits

Code	Material	Part No.
FS104-N SEAL KIT	NBR	3051912
FS104-V SEAL KIT	FKM	3071275



NOTE
The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

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