

DFE10

Solenoid control monoblock diverter valves

• 3 - 6 ways configuration

This catalogue shows technical specifications and diagrams measured with mineral oil of 46 mm 2 /s (46 cSt) viscosity at 40°C - (104°F) temperature.

WORKING CONDITIONS				
N. of available ways		3 - 6		
Max. flow rating		90 l/min (23.7 US gpm)		
Max. pressure	without drain	200 bar <i>(2900 psi)</i>		
	with drain	315 bar <i>(4600 psi)</i>		
Available supply voltage	VDC	see reference page 94		
Nominal power		60 W		
Internal leakage A(B)⇒T	$\Delta p = 100 \text{ bar } (1450 \text{ psi})$	10 cm³/min (0.61 in³/min)		
Fluid		Mineral based oil		
Fluid temperature	with NBR (BUNA-N) seals	from -20°C to 80°C (from -4°F to 176°F)		
	with FPM (VITON) seals	from -20°C to 100°C (from -4°F to 212°F)		
	operating range	from 15 to 75 mm ² /s (from 15 to 75 cSt)		
Viscosity	min. 12 mm²/s (12 cSt)			
	max.	400 mm²/s (400 cSt)		
Max. level of contamination		20/18/15 - ISO 4406 - NAS 1638 - class 9		
Ambient temperature for working conditions		from -20°C to 50°C (from -4°F to 122°F)		

NOTE - For different working conditions please contact Sales Dept.

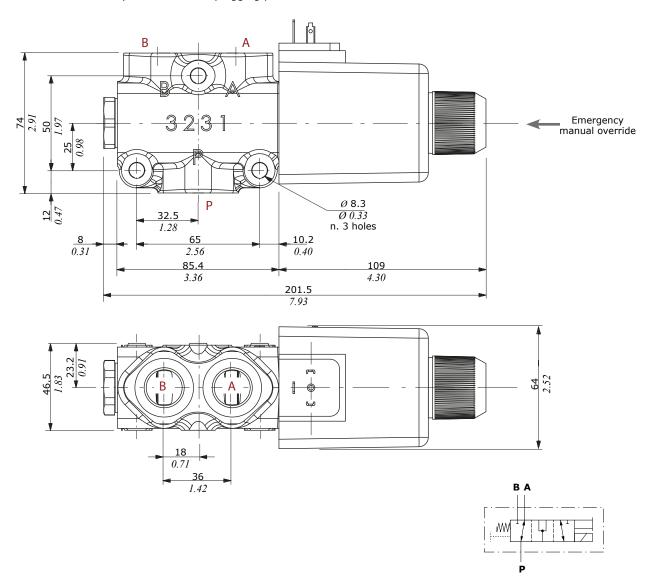
- Available threads

PORTS THREAD		
ALL PORTS	BSP	UN-UNF
DFE10	G 1/2	7/8-14 (SAE 10)
PILOT PORTS		
L	G 1/4	9/16-18 (SAE 6)

Dimensional data - hydraulic circuit - performance data -

3 ways

It's possible to obtain 2 ways diverter valve plugging port

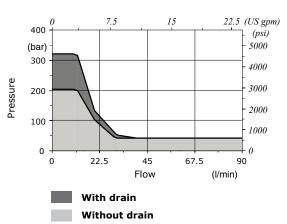


Pressure drop versus flow

$P \rightarrow A(B)$ 30 (US gpm) 20 (psi) 250 (bar) 15 200 Pressure 150 10 spool A(B) 100 5 50 0 30 60 90 120 (I/min) Flow

Minimum dynamic conditions

(Supply = Vn-10%, coil at 70 °C - 158 °F)



Part ordering codes

1 Body kit*

TYPE CODE DESCRIPTION **DFE10/3** 3CO2241320 3 ways body kit **DFE10/6** 3CO2242322 6 ways body kit

2 Spools page 92

TYPE	CODE	DESCRIPTION
for DFE10	<u>/3:</u>	
Α	3CAS110341	Flow in A in neutral.
		Ports connected in transit position
В	3CAS110441	Flow in A in neutral.
		Ports closed in transit position
D	3CAS110540	Closed ports in neutral and
		connected in transit position
for DFE10	<u>/6:</u>	
Α	3CAS110641	Flow in E and F. C and D closed in pos. 1
		Ports connected in transit position
В	3CAS110741	Flow in E and F. C and D closed in pos. 1
		Ports closed in transit position

3 Positioner kit page 93

3CAS110841 D \leftarrow >C in pos. 1, F \leftarrow >E in pos. 2

Ports closed in transit position

TYPE CODE DESCRIPTION **18...W** 5TAP002 Spring return in pos. 1

18...Y 5GIU004* Spring return in pos. 1, with G1/4 drain port

4	Solenoid kit	page 9
TYPE	CODE	DESCRIPTION
ES	5SOL516000A	Tube assembly with protective bellow
ES	5SOL516000B	Tube assembly without protective bellow
_	4ACC516	Ontional tube assembly protective bellow

5 Coil

For list of available coils see pages 94

6 Body threading

Specify threading always when it is different from **BSP** standard

7 Port plugs*

It's possible to obtain 2 ways diverter valve plugging port of DFE10/3 CODE DESCRIPTION 3XTAP727180 G1/2 plug

8 Accessories

For list of available connectors see pages 94

Spool circuits

3 ways

н

Type A

Ports connected in transit position



Spool stroke

Position 2: - 4.6 mm (- 0.18 in)

Positioner kit

With spring return in position 1

Type 18W
With plug

Wrenches and tightening torque
Z = wrench 27 - 42 Nm (31 lbft)

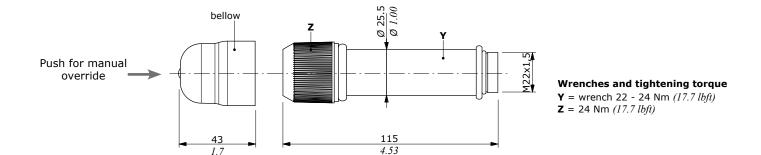
M 1 2

L 1 2

L 2 3 3 0.92

Solenoid kit

ES tube assembly kit



Coils and accessories

				Ordering cod	des		
	Voltage		Connector types				
Туре		ISO4400	Deutsch DT	AMP JPT	Packard Weatherpack	Packard Metri-pack	Flying leads without connector
	12 VDC	4SOL516012A	4SOL516412A(2)	-	-	-	-
D16	24 VDC	4SOL516024A	4SOL516424A ⁽²⁾	-	-	-	-
	48 VDC	4SOL516048A	-	-	-	-	-
	94 VDC	4SOL516094A	-	-	-	-	-
	110 VDC	4SOL516110A	-	-	-	-	-
	192 VDC	4SOL516192A	-	-	-	-	-
Mating connectors							
		4CN1009995	5CON140031	-	-	-	-

Notes: (¹) supply with AC and use only with rectifier connector - (²) with flying leads - (³) with bidirectional diode - (⁴) with unidirectional diode (⁵) integrated perpendicular type - (⁶) integrated parallel type

Features

Flying leads with DEUTSCH DT04 connector 100 3.93 46.7 78 3.07

ISO4400 connector

