



PRODUCT OVERVIEW

INDUSTRIAL HYDRAULICS



DIPLOMATIC
MOTION SOLUTIONS

HT
HIDRAUTRONICA
SISTEMAS HIDRÁULICOS

ABOUT THIS GUIDE

This guide is intended for a smart overview of our industrial hydraulics and let you find quickly the product you need.

data sheet ref.

main characteristics, available versions and options are shown together for quick comparison.

A brief description of the features follows.

The highlighted letter that precedes the description is the same letter that identifies the option in the identification code, in the data sheet, for an easy reference.

Not all the options are available for all versions: always verify technical data, details and availability in the technical data sheet.

MODEL CODE	E5	DSP7	E5	DSP10
CATALOG	41.400	41.420	41.400	41.440
SIZE (IN)	1/2	3/4	1	1 1/2
CETOP	05, 05S	07	08	10
ISO 4001	E5	07	08	10
TYPE	solenooid	admetoid	solenooid	solenooid
p max	100bar	95 bar	280 bar	280 bar
p max High pressure valve	420bar	420 bar	420 bar	420 bar
Q max	150 l/min	100 l/min	300 l/min	1200 l/min
SPOLS	3/2, 3/2, 3/2, 4/3	■	■	■
5/5, 5/3	■	■	■	■
5/5, 5/2	■	■	■	■
5/5, 5/2	■	■	■	■
5/4, 5/3	■	■	■	■
5/4, 5/2, 7/4, 5/4, 5/3/4	■	■	■	■
7/4, 7/4	■	■	■	■
8/4, 8/4	■	■	■	■
7/4, 7/4, 7/4, 7/4	■	■	■	■
8/4, 8/4, 8/4, 8/4	■	■	■	■
COL TYPE	E12, E24	■	■	■
240, 240, 240	■	■	■	■
AD, AD, AD, AD, AD, AD	■	■	■	■
AD, AD, AD, AD, AD, AD	■	■	■	■
COL CONNECTIONS	H1	■	■	■
K7, H1 and DIN code	■	■	■	■
MANUAL OVERRIDE	CH	■	■	■

MICROFILTR
 MICROFILTR: see dedicated section at page «filtrazione»
 EPOXY/SHOCK PROOF: see catalogue 4253
 HYDRAULIC OPERATED VERSIONS: described in the valves datasheets
 HIGH PRESSURE VERSION: ■

LEGENDA
 E5: solenooid; P: admetoid; D: solenooid con riduzione di pressione; A: solenooid con built-in backpressure valve; B: solenooid con built-in backpressure valve; C: solenooid con built-in backpressure valve; D: solenooid con built-in backpressure valve; E: solenooid con built-in backpressure valve; F: solenooid con built-in backpressure valve; G: solenooid con built-in backpressure valve; H: solenooid con built-in backpressure valve; I: solenooid con built-in backpressure valve; J: solenooid con built-in backpressure valve; K: solenooid con built-in backpressure valve; L: solenooid con built-in backpressure valve; M: solenooid con built-in backpressure valve; N: solenooid con built-in backpressure valve; O: solenooid con built-in backpressure valve; P: solenooid con built-in backpressure valve; Q: solenooid con built-in backpressure valve; R: solenooid con built-in backpressure valve; S: solenooid con built-in backpressure valve; T: solenooid con built-in backpressure valve; U: solenooid con built-in backpressure valve; V: solenooid con built-in backpressure valve; W: solenooid con built-in backpressure valve; X: solenooid con built-in backpressure valve; Y: solenooid con built-in backpressure valve; Z: solenooid con built-in backpressure valve.

You can find data sheets always up-to-date in various languages by scanning this QR code with your smartphone



or on our webpages at:

www.duplomatic.com/products



www.hidrautronica.com

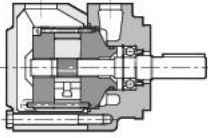
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VANE PUMPS

DUMPS VANE PUMPS



MODEL CODE		DF* - fixed displacement		
CATALOGUE		13 100		
PUMP SIZE	DISPLACEMENT	MAX FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]
DFP1				
05	18,0	26,1	210	2700
08	27,4	39,4		
11	36,4	52,6		
12	39,5	58,7	160	
14	45,9	69,6	140	
DFP2				
12	40,1	58,8	210	2500
14	45,4	65,7		
17	55,2	80,2		
19	60,1	88,7		
21	67,5	99,8		
DFP3				
21	69,0	101,4	210	2400
25	81,6	120,1		
30	97,7	141,2		
35	112,7	167,2		
38	121,6	177,3		
DFP4				
42	138,6	203,4	175	2200
47	153,5	222,7		
50	162,2	234,0		
57	183,4	267,0		
60	193,4	285,0		

■ FEATURES ++

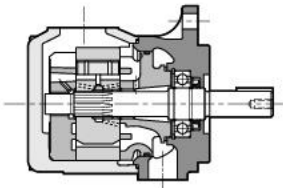
TYPE: **P** single pump - **DP** double pump - **C** shaft end cartridge - **CC** cover end cartridge

ROTATION: **R** clockwise - **L** counterclockwise

MOUNTING FLANGE: ISO. SHAFT END: cylindrical keyed. Other upon request

HYDRAULIC CONNECTIONS: SAE J518 flanged.

OTHER: see catalogue for **OUTLET PORTS POSITION**



MODEL CODE

FV6 - fixed displacement

CATALOGUE

13 110

PUMP SIZE	DISPLACEMENT	MAX FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]

FV6C

03	10,8	16,2	240	2800
05	17,2	25,8		
06	21,3	31,9		
08	26,4	39,6		
10	34,1	51,1		
12	37,1	55,6		
14	46,0	69,0		
17	58,3	87,4		
20	63,8	95,7		
22	70,3	105,4		
25	79,3	118,9		
28	88,8	133,2		
31	100,0	150,0	160	2500

FV6D

14	47,6	71,4	210	2500
17	58,2	87,3		
20	66,0	99,0		
24	79,5	119,3		
28	89,7	134,6		
31	98,3	147,5		
35	111,0	166,5		
38	120,3	180,5		
42	136,0	204,0		
45	145,7	218,6		
50	158,0	237,0	160	2200

FV6E

42	132,3	198,5	210	2200
45	142,4	213,6		
50	158,5	237,8		
52	164,8	247,2		
57	179,8	269,6		
62	196,7	295,1		
66	213,3	320,0		
72	227,1	340,0		
85	269,0	403,0	80	2000

FEATURES ++

PUMP SIZE: **C** from 10.8 to 100 cm³/rev - **D** from 47.6 to 158 cm³/rev - **E** from 132.3 to 269 cm³/rev

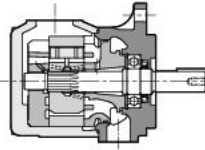
ROTATION: **R** clockwise - **L** counterclockwise

MOUNTING FLANGE: SAE B J744, SAE C J744

SHAFT END: cylindrical keyed SAE, non-SAE, involute spline SAE, non-SAE. See catalogue.

HYDRAULIC CONNECTIONS: SAE J518 flanged.

FV67 DOUBLE AND TRIPLE pumps available.



MODEL CODE

FV7 - fixed displacement

CATALOGUE

13 120

PUMP SIZE	DISPLACEMENT	MAX FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]

FV7B

02	5,8	8,7	320	3600
03	9,8	14,7		
04	12,8	19,2		
05	15,9	23,9		
06	19,8	29,7		
07	22,5	33,8		
08	24,9	37,4		
10	31,8	47,7		
12	41,0	61,5	275	3000
15	50,0	75,0	240	

FV7D

14	44,0	66,0	250	3000
17	55,0	82,5		
20	66,0	99,0		
22	70,3	105,5		
24	81,1	121,7		
28	90,0	135,0		
31	99,2	148,8		
35	113,4	170,1		
38	120,6	180,9	2800	
42	137,5	206,3		230

■ FEATURES ++

PUMP SIZE: **B** from 5.8 to 50 cm³/rev - **D** from 44 to 137.5 cm³/rev

ROTATION: **R** clockwise - **L** counterclockwise; MOUNTING FLANGE: SAE B J744, SAE C J744, ISO 3019-2

SHAFT END: cylindrical keyed SAE, non SAE, ISO; involute spline SAE. See catalogue.

HYDRAULIC CONNECTIONS: SAE J518 flanged.

MODEL CODE

PVD - direct variable displacement

CATALOGUE

14 100

PUMP SIZE	DISPLACEMENT	MAX FLOW RATE at 1450 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]

PVD

25	17,9	25,0	120	1800
30	22,8	30,0	100	
37	28,1	36,0		
45	34,5	45,6		
48	34,5	47,5		
56	42,8	58,0		
72	53,1	72,5		
90	69,0	91,3		
115	86,2	116,0		
145	105,5	145,0		

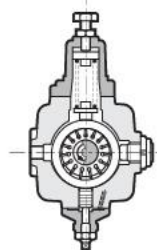
■ FEATURES ++

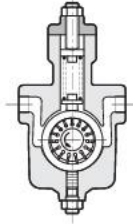
ROTATION: clockwise. MOUNTING: **K** rectangular shape 4 holes w. conical keyed shaft end.

H ISO 3019/2 w. cylindrical keyed shaft end. HYDRAULIC CONNECTIONS: BSP threaded/SAE flange

PRESSURE COMPENSATOR: mechanical, direct

OTHER: **Q** flow adjuster - see catalogue for **MULTIPLE PUMPS**

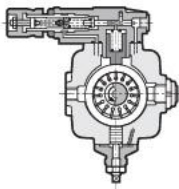




MODEL CODE		PVE - direct variable displacement			
CATALOGUE		14 110			
PUMP SIZE	DISPLACEMENT	MAX FLOW RATE at 1800 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED	
	[cm ³ /rev]	[l/min]	[bar]	[rpm]	
PVE					
006	6,6	12,0	70	1800	
011	11,1	20,0			
016	16,6	30,0			
023	22,2	40,0			

FEATURES ++

ROTATION: clockwise. MOUNTING FLANGE: **9** rectangular shape 4 holes - **0** SAE J744 2 holes
 SHAFT END: cylindrical keyed SAE-J744. HYDRAULIC CONNECTIONS: BSP threaded
 PRESSURE COMPENSATOR: mechanical, direct. **PC2** up to 35 bar - **PC3** up to 70 bar






MODEL CODE		PVA - piloted variable displacement			
CATALOGUE		14 200			
PUMP SIZE	DISPLACEMENT	FLOW RATE at 1450 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED	
	[cm ³ /rev]	[l/min]	[bar]	[rpm]	
PVA					
22	16	23,2	160	1800	
28	20	29,0			
35	25	36,2			
45	31,5	45,6	160	1800	
56	40	58,0			
72	50	72,5	150		
90	63	91,3			
115	80	116,0			
145	100	145,0			

FEATURES ++

ROTATION: clockwise. MOUNTING FLANGE: ISO 3019/2 4 holes
 SHAFT END: cylindrical keyed. HYDRAULIC CONNECTIONS: BSP threaded / SAE flanged
 PRESSURE COMPENSATOR: hydraulic, piloted.
 OTHER: **Q** flow adjuster - **M** Dual pressure value selection device - see catalogue for **MULTIPLE PUMPS**

PRODUCTION PLANTS

-  Diplomatic MS (Italy)
-  Diplomatic Hydraulics Shanghai
-  Continental Hydraulics (U.S.A.)

SALES NETWORK

- Main Distributor



Our sales network covers 55 countries in the World. With a partner located at each corner of the Globe we can be always at your side.

The number of partners, distributors sales and assistance points is constantly growing.

To find your closest distributor please visit our website at:

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