



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	external	external	external	external
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, 3/3, 3/4, 4/3	■	■	■
5/5, 5/8	■	■	■	■
5/6, 5/12	■	■	■	■
5/8, 5/21	■	■	■	■
6/4, 5/8	■	■	■	■
6/4, 5/8 To 5/4/5/8	■	■	■	■
7/6, 7/6	■	■	■	■
8/6, 7/6	■	■	■	■
7/21, 7/21	■	■	■	■
8/6, 8/6, 8/6	■	■	■	■
COL TYPE	■	■	■	■
1/2, 1/2	■	■	■	■
2/4, 2/4, 2/4	■	■	■	■
2/4, 2/4, 2/4	■	■	■	■
2/4, 2/4	■	■	■	■
COL CONNECTIONS	■	■	■	■
1/1	■	■	■	■
1/2, 1/2 and 2/4, 2/4	■	■	■	■
MANUAL OVERRIDE	■	■	■	■
ORFILL	■	■	■	■

OPTIONS
 MICROFILTR: see dedicated section at page «filtrazione»
 EXPLOSION PROOF: see catalogue 4253
 HYDRAULIC OPERATED: described in the valves data sheets
 HIGH PRESSURE VERSION: ■
 P: Pilot/Overload ■ Internal ■ Internal with pressure reducing ■ Internal with built-in backpressure valve ■ External
 ORFILL: application cases (variable data sheet)
 ORFILL: ■ ORFILL with control ■ ORFILL with speed control ■ ORFILL with a shifting control ■ ORFILL with a shifting control
 ALTERNATIVE SURFACE FINISHES: ■ Zinc Nickel (but spray resistance up to 400 hours)

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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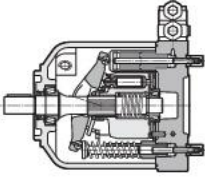
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PISTON PUMPS

PUMPS

AXIAL-PISTON PUMPS



MODEL CODE VPPM - medium pressures

CATALOGUE **16 100**

PUMP SIZE	MAX DISPLACEMENT	FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]
VPPM				
029	29	43,5	280	3000
046	46	69,0		2600
073	73	109,5		2200
087	87	131,9	250	1850

FEATURES ++

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

MOUNTING FLANGE: **5** ISO 3019/2 - **0** SAE J744 2 holes

SHAFT END: **5** cylindrical keyed ISO 3019-2 - **0** cylindrical keyed SAE J744 - **1** SAE J744 splined

HYDRAULIC CONNECTIONS: **S** SAE flange w. metric bolts suction/delivery, drainage BSP threaded

T SAE flange w. UNF bolts suction/delivery, drainage UNF threaded

CONTROLS: **PC** pressure - **PCR** remote pressure control - **PCX** with external pressure control devices - **PQC** pressure and flow rate - **PQCES** integrated proportional flow and pressure control

PQNC power - **PQNCS** power, with integrated proportional flow and pressure control

OTHER: see catalogue for **MULTIPLE PUMPS**

MODEL CODE VPPL - low-medium pressures

CATALOGUE **16 200**

PUMP SIZE	MAX DISPLACEMENT	FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]
VPPL				
008	8	12	210	2000
016	16	24		
022	22	33		
036	36	54		
046	46	69		
070	70	105	280	1800
100	100	150		

FEATURES ++

ROTATION: clockwise

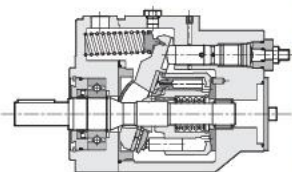
MOUNTING FLANGE: **0** SAE-2 (VPPL 008, 016, 022, 036, 046) - **1** SAE-4 (VPPL 070, 100)

SHAFT END: cylindrical keyed SAE-J744

HYDRAULIC CONNECTIONS: **S** SAE flange w. metric bolts suction/delivery, drainage BSP threaded

B BSP threaded ports (VPPL-008)

CONTROLS: **PCS, PC6** pressure - **PCR** remote pressure control - **PCX5, PCX6** with external pressure control devices - **PQC** pressure and flow rate





MODEL CODE

HPR - high pressures

CATALOGUE		16 300		
PUMP SIZE	MAX DISPLACEMENT	FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]
HPR				
055	55,0	82,5	420	2700
075	75,9	113,9		2500
105	105,0	157,5		2500
135	135,7	203,5		2350
165	165,6	248,2		2200
210	210,1	315,5		2100
280	281,9	422,9		2000

FEATURES ++

ROTATION: **R** clockwise

MOUNTING FLANGE: SAE J744 2 holes; SAE J744 4 holes for HPR210 and 280

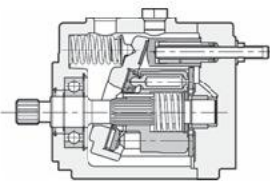
SHAFT END: SAE J744 splined - Cylindrical keyed upon request

HYDRAULIC CONNECTIONS: flange fittings - SAE 3000 suction / SAE 6000 pressure

POWER TAKE-OFF: **A00** SAE A flange, no shaft coupling (single pump, std).

See catalogue for power take-off / through drive shaft available couplings.

CONTROLS: **LP6** load sensing w. pressure cut-off - **TL2** load sensing w. power control (HPR105, 135, 210 and 280 only) - **ET6** continuous displacement control w. power limiter and pressure cut-off (HPR105, 135, 210 and 280 only) **D12K2** or **D24K2** available coils.



MODEL CODE

AP1V - medium-high pressures

CATALOGUE		16 500		
PUMP SIZE	MAX DISPLACEMENT	FLOW RATE at 1500 rpm	MAX OPERATING PRESSURE	MAX ROTATION SPEED
	[cm ³ /rev]	[l/min]	[bar]	[rpm]
AP1V				
015	14,9	22,4	280	3000
021	20,9	31,6		
035	35,3	52,9		
045	45,2	67,8		
065	65,9	98,9		

FEATURES ++

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

MOUNTING FLANGE: SAE J744 2 holes

SHAFT END: **0** cylindrical keyed SAE J744 - **1** SAE J744 splined




HYDRAULIC CONNECTIONS: **R** SAE flanges on rear - **S** SAE flanges on side;

for AP1V-015 only: **R** BSP ports on rear - **S** BSP ports on side

POWER TAKE-OFF: **000** no shaft coupling (single pump, std). PTO available for pumps AP1V-035, 045 and 065 with side ports only. See catalogue.

CONTROLS: **PC** pressure - **PCR** remote pressure control - **PQC** pressure and flow rate

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.

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