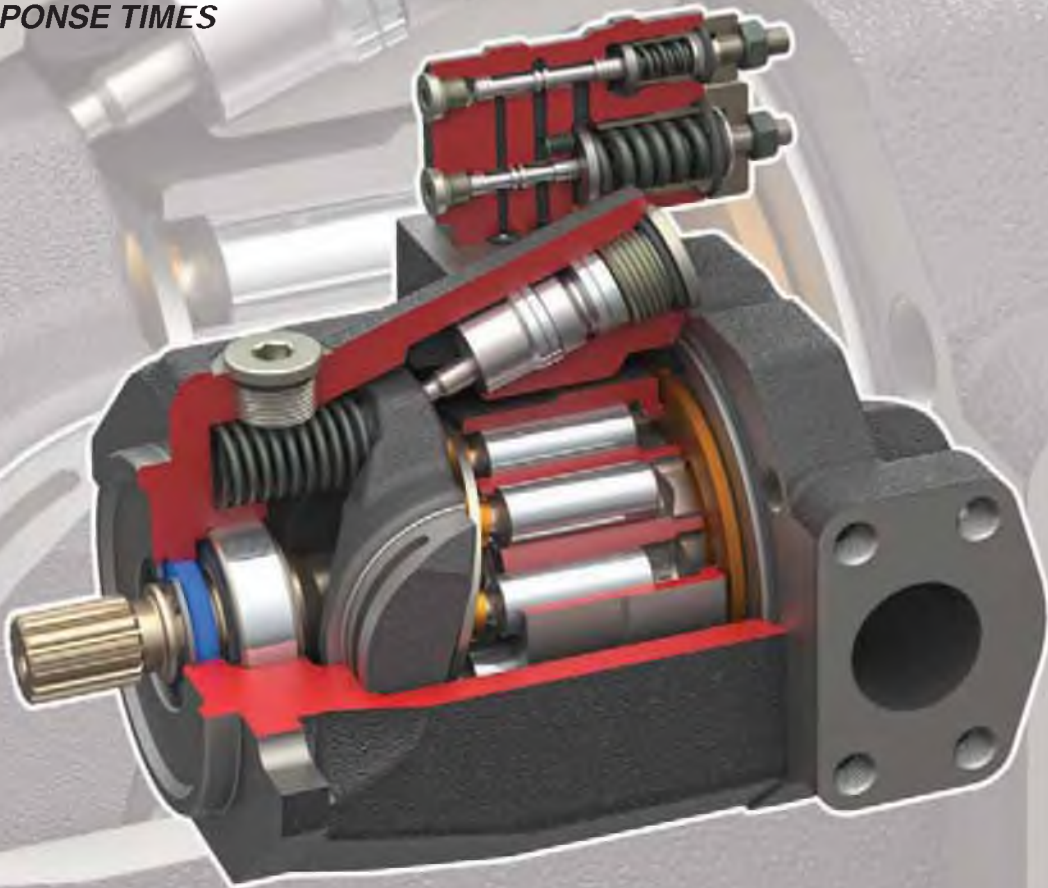


HPV

VARIABLE DISPLACEMENT AXIAL PISTON PUMP SERIES

- 35cc, 45cc, 65cc, 75cc DISPLACEMENTS
- WORKING/PEAK PRESSURE; 250/320 bar (Type "A")
280/350 bar (Type "B")
- PRESSURE, FLOW AND POWER REGULATIONS
- SHORT RESPONSE TIMES
- LOW NOISE



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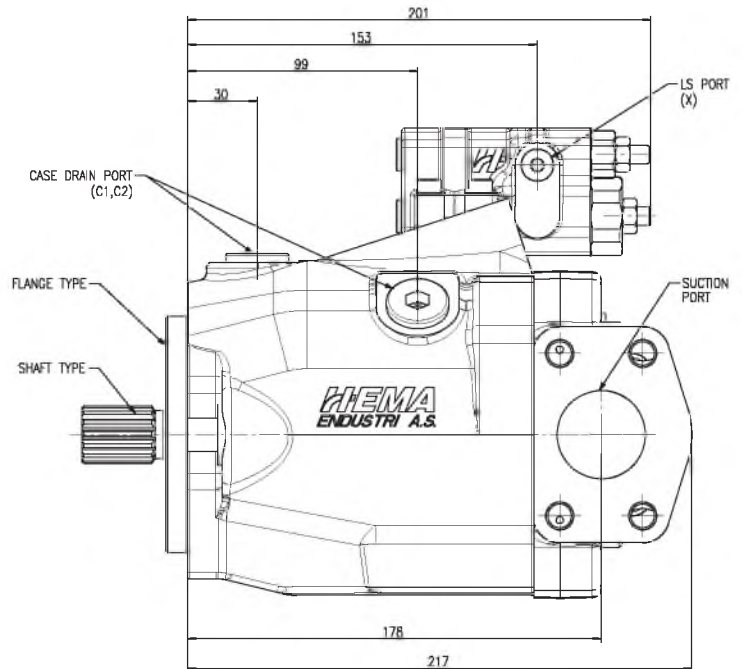
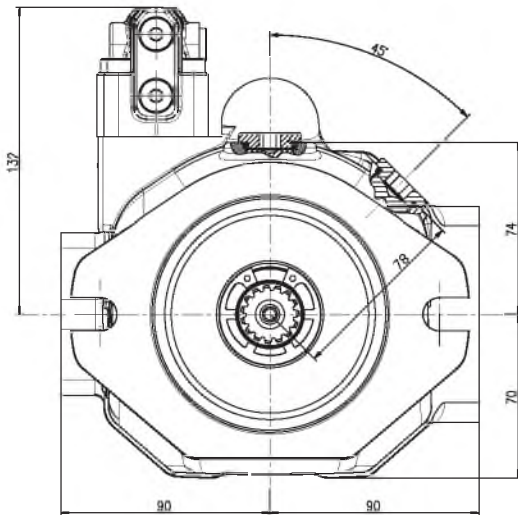
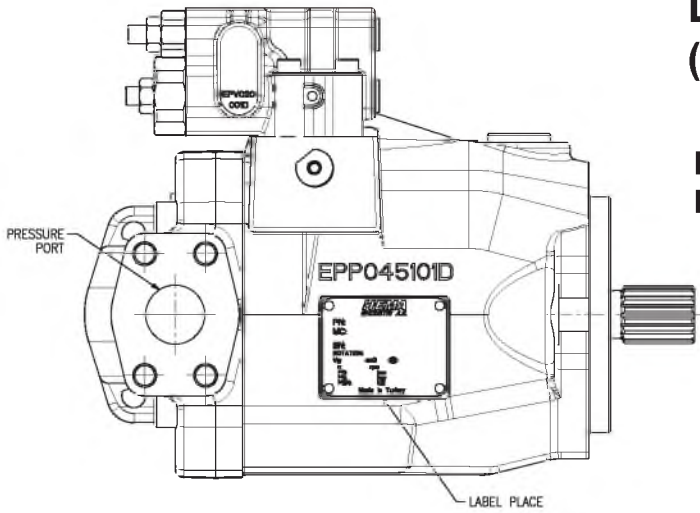
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HPV SERIES TYPE "A" PISTON PUMP DIMENSIONS AND SPECIFICATIONS (SIDE PORT)

PR: PRESSURE REGULATION

PFR: PRESSURE AND FLOW REGULATION

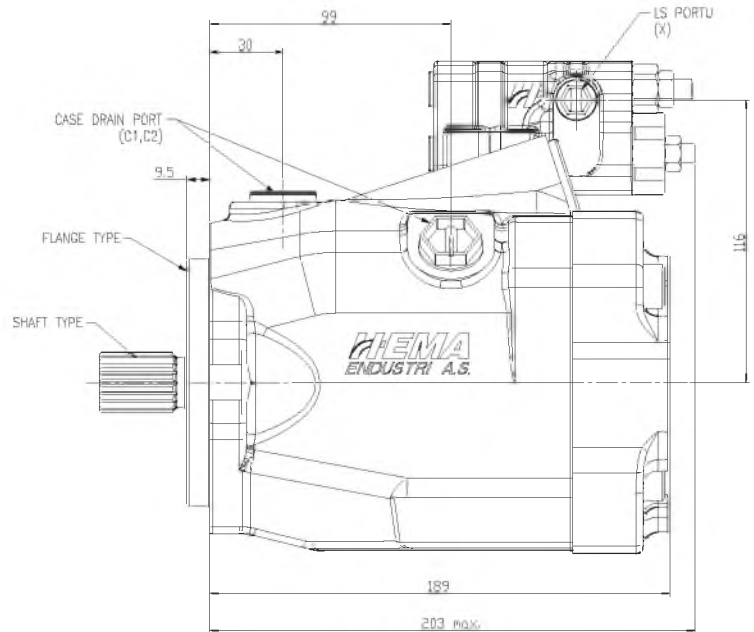
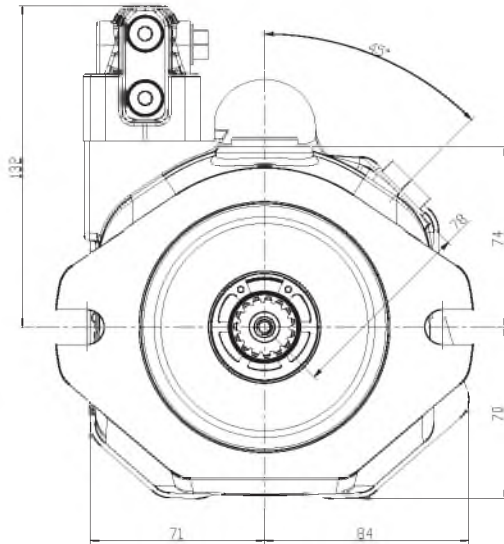
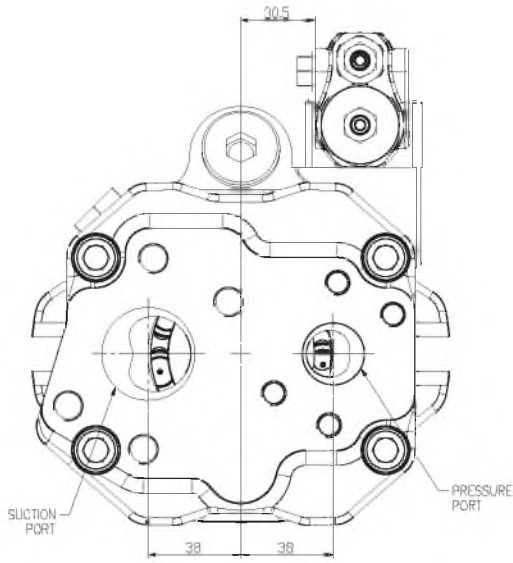


MODEL	DISPLACEMENT (cm ³ /rev)	MAX. OUTLET PRESSURE (bar)	PEAK PRESSURE (bar)	MAX. SPEED (rpm)
HPV TYPE "A"	35	250	320	2700
	45	250	320	2700

HPV SERIES TYPE "A" PISTON PUMP DIMENSIONS AND SPECIFICATIONS (REAR PORT)

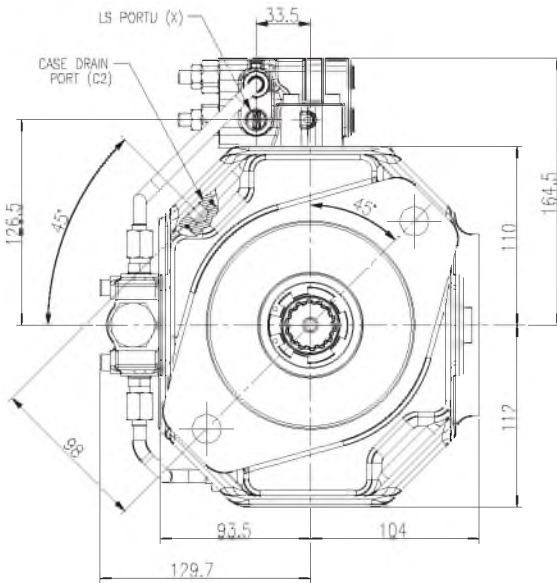
PR: PRESSURE REGULATION

PFR: PRESSURE AND FLOW REGULATION

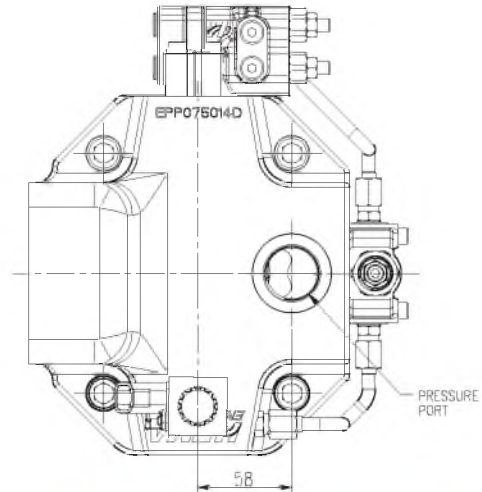
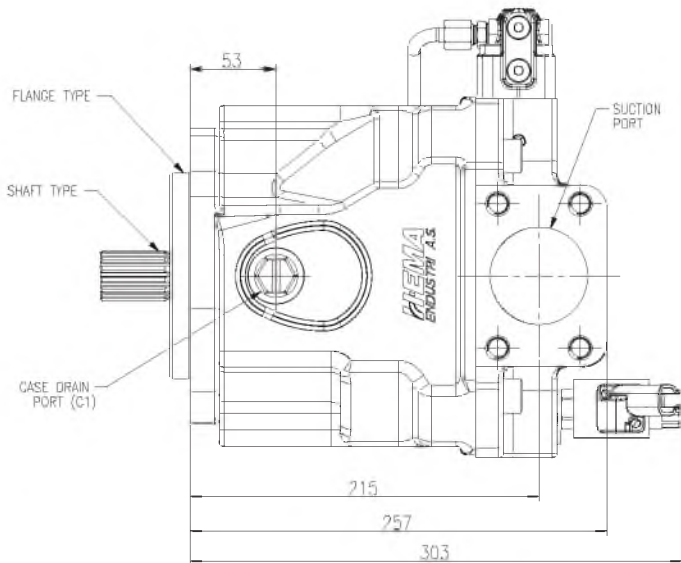


MODEL	DISPLACEMENT (cm ³ /rev)	MAX. OUTLET PRESSURE (bar)	PEAK PRESSURE (bar)	MAX. SPEED (rpm)
HPV TYPE "A"	35	250	320	2700
	45	250	320	2700

HPV SERIES TYPE "B" PISTON PUMP DIMENSIONS AND SPECIFICATIONS



PR: PRESSURE REGULATION
PFR: PRESSURE AND FLOW REGULATION
PFPR: PRESSURE, FLOW AND POWER REGULATION



MODEL	DISPLACEMENT (cm ³ /rev)	MAX. OUTLET PRESSURE (bar)	PEAK PRESSURE (bar)	MAX. SPEED (rpm)
HPV TYPE "B"	65	280	350	2200
	75	280	350	2200

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

1. PRODUCT TYPE

										35cc	45cc	65cc	75cc
P	PUMP									●	●	●	●

2. DISPLACEMENT TYPE

										35cc	45cc	65cc	75cc
V	VARIABLE									●	●	●	●

3. OPERATION MODE

										35cc	45cc	65cc	75cc
O	OPEN CIRCUIT									●	●	●	●

4. DISPLACEMENT

35cc	45cc	65cc	75cc
35	45	65	75

● Available

○ On request

- Not available

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

5. CONTROL TYPE

		35cc	45cc	65cc	75cc
PR	PRESSURE REGULATION	○	○	●	●
PFR	PRESSURE AND FLOW REGULATION	●	●	●	●
PFPR	PRESSURE, FLOW AND POWER REGULATION	○	○	●	●
PFPS1	PRESSURE, FLOW AND POWER REGULATION (WITH SOLENOID CONTROL)	○	○	●	●

6. SERIES

		35cc	45cc	65cc	75cc
A	250 bar max. 320 bar peak	●	●	○	○
B	280 bar max. 350 bar peak	○	○	●	●

7. ROTATION

R	RIGHT (CLOCKWISE)
L	LEFT (COUNTER CLOCKWISE)

8. SEALS

V	VITON (FKM)
N	NBR
H	HNBR

● Available

○ On request

- Not available

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

9. SHAFT (SAE J744)

SHAFT TYPES		CODE	35 cc	45 cc	65 cc	75 cc
SPLINE	13T 16/32 DP	S4	●	●	-	-
	15T 16/32 DP	S5	●	●	○	○
	14T 12/24 DP	S6	-	-	●	●
STRAIGHT KEYED	25 (Ø25,4)	K5	○	○	-	-
	32 (Ø31,75)	K6	-	-	○	○

10. FLANGE (SAE J744)

FLANGE TYPES	CODE	35 cc	45 cc	65 cc	75 cc
SAE B - 2 BOLT	B2	●	●	-	-
SAE C - 2 BOLT	C2	-	-	●	●

● Available

○ On request

- Not available

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

11. SUCTION PORT POSITION

		35 cc	45 cc	65 cc	75 cc
S	SIDE	●	●	●	●
R	REAR	●	●	○	○

12. SUCTION PORT

FLANGED PORT – SAE CODE 61

PORT TYPES		CODE	DISPLACEMENT			
			35cc	45cc	65cc	75cc
1 1/2"	M12x1.75	FE1	S/R			
	M14x1.75	FE2				
	7/16 - 14UNC - 2B	FE3	S/R			
	1/2 - (1 1/2) 13UNC - 2B	FE4				
2 1/2"	M12x1.75	FG1			S	
	M14x1.75	FG2				
	1/2 - (1 1/2) 13UNC - 2B	FG3			S	

THREADED PORT – ISO 6149

PORT TYPES		CODE	DISPLACEMENT			
			35cc	45cc	65cc	75cc
M27X2	TJ1	●	●			
M30X2	TK1	●	●			
M33X2	TL1	●	●		R	
M36X2	TM1	●	●			
M40X2	TN1	●	●			
M42X2	TO1	●	●			

S:AVAILABLE FOR SIDE PORT

R:AVAILABLE FOR REAR PORT

S/R:AVAILABLE FOR SIDE AND REAR PORT

● Available

○ On request

- Not available

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

13. PRESSURE PORT POSITION

		35cc	45cc	65cc	75cc
S	SIDE	●	●	○	○
R	REAR	●	●	●	●

14. PRESSURE PORT

FLANGED PORT – SAE CODE 61

			DISPLACEMENT			
PORT TYPES	CODE		35cc	45cc	65cc	75cc
3/4"	M10x1.5	FB1				
	3/8-1 ¼	FB3				
1"	M10x1.5	FC1	S/R			
	M12x1.75	FC2				
	3/8-1 ¼	FC3				
	7/16-1 ½	FC4				
1 1/4"	M12x1.75	FD1				
	M14x1.75	FD2				
	1/2-1 3/4	FD3				

THREADED PORT – ISO 6149

			DISPLACEMENT			
PORT TYPES	CODE		35cc	45cc	65cc	75cc
M27X2	TJ1		●	●		
M30X2	TK1		●	●		
M33X2	TL1		●	●	R	
M36X2	TM1		●	●		
M40X2	TN1		●	●		
M42X2	TO1		●	●		

S:AVAILABLE FOR SIDE PORT

R:AVAILABLE FOR REAR PORT

S/R:AVAILABLE FOR SIDE AND REAR PORT

● Available

○ On request

- Not available

ORDER CODE

H	P	V	O	45	PFR	A	R	V	-	S5	B2	-	S	FE1	S	FC1	-	TH1	TC1	-	X	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						

15. CASE DRAIN (C)

16. LS PORT

THREADED PORT – ISO 6149

		DISPLACEMENT			
PORT TYPES	CODE	35cc	45cc	65cc	75cc
M12x1.5	TC1	LS	LS	LS	LS
M14x1.5	TD1				
M18X1.5	TF1				
M20X1.5	TG1				
M22X1.5	TH1	C	C	C	C
M24X1.5	TI1				

THREADED PORT – SAE J1926

		DISPLACEMENT			
PORT TYPES	CODE	35cc	45cc	65cc	75cc
7/16"-20UNF	TC2	LS	LS	LS	LS
3/4"-16UNF	TF2				
7/8"-14UNF	TG2	C	C	C	C
1 1/16"-12UN	TH2				

LS:AVAILABLE FOR LS PORT

C:AVAILABLE FOR CASE DRAIN PORT

LS/CAVAILABLE FOR LS AND CASE DRAIN PORT

17. THROUGH DRIVE

X	NOT APPLICABLE
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