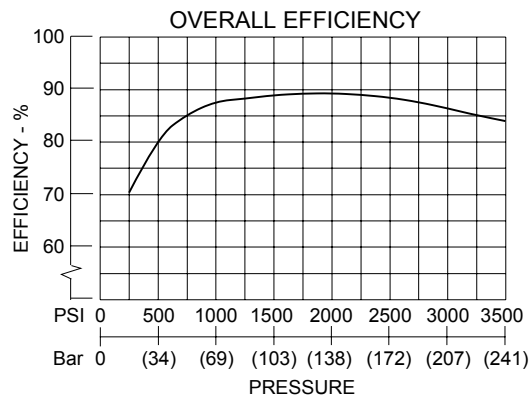
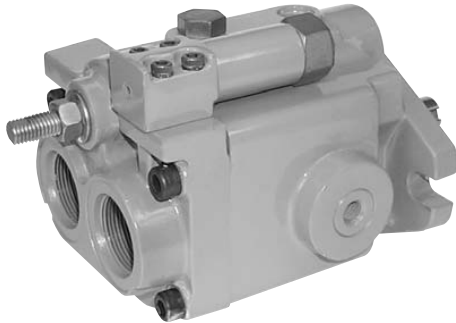


HPV10 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

VARIABLE DISPLACEMENT PRESSURE COMPENSATED



TYPICAL PERFORMANCE SPECIFICATIONS

VOLUMETRIC DISPLACEMENT		cu.in. / rev.	1.26
		ml. / rev.	21.1
PUMP DELIVERY @ 1750 rpm	Theoretical	gpm	9.55
		lpm	36.08
OPERATING PRESSURES	Intermittent	psi	4000
		bar	276
	Continuous	psi	3500
		bar	241
	Minimum	psi	200
		bar	14
OPERATING SPEEDS	Maximum	rpm	See Below
	Rated	rpm	1750
	Minimum	rpm	500
POWER INPUT @ (1750 RPM) rated & pressure		hp	23
		kw	17
CASE DRAIN FLOW @ deadhead & rated flow & pressure		gpm	.3
		lpm	1.1
MOUNTING FLANGE	Keyed Shaft	SAE Type	"B" 2-Bolt
	Spline Shaft	SAE Type	"B" 2-Bolt
SHIPPING WEIGHT	Rear Port	lbs.	37
		kgs.	16.7
	Side Port	lbs.	48
		kgs.	21.8
	Tandem Port	lbs.	51
		kgs.	23.1

NOTES:

This pressure should comprise 10% or less of the total duty cycle & not exceed 6 consecutive seconds.
Pumps operating at less than 150 psi may overheat & shorten pump life.

CASE DRAIN & INLET PORT SPECIFICATIONS

	Maximum Case Pressure		Maximum Inlet Pressure		Minimum Inlet Pressure	
RPM	psi	bar	psi	bar	vacuum / pressure	vacuum / pressure
1800	10	0.69	50	3.4	6.12 in-Hg	155.5 mm-Hg
2100	7	0.48	50	3.4	6.12 in-Hg	155.5 mm-Hg
2500	5	0.34	50	3.4	6.12 in-Hg	155.5 mm-Hg
2550	5	0.34	50	3.4	5.12 in-Hg	130.9 mm-Hg
2700	5	0.34	50	3.4	2.10 in-Hg	88.67mm-Hg
2800	5	0.34	50	3.4	0	0
3000	5	0.34	50	3.4	2.18 psi	.09 bar

PRESSURE & VOLUME ADJUSTMENT SENSITIVITY

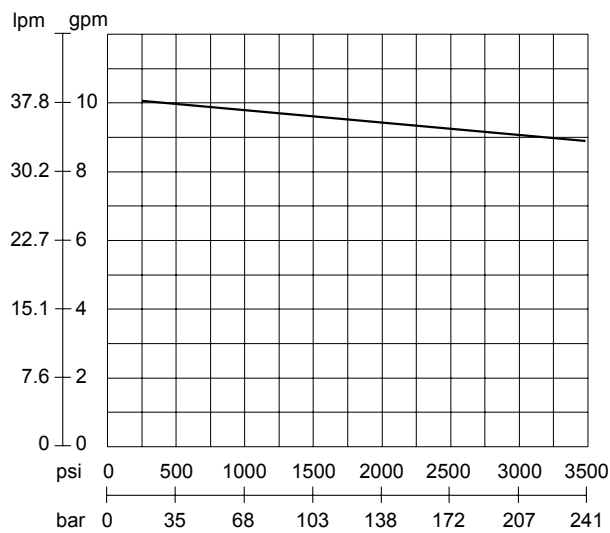
Pressure Adjustment	(Pressure Change per Turn)	650 psi	44.8 bar
Volume Adjustment	Flow Change per Turn	1.2 gpm	4.5 lpm
	Maximum Torque	25 in-lbs.	2.8 Nm

HPV10 Series

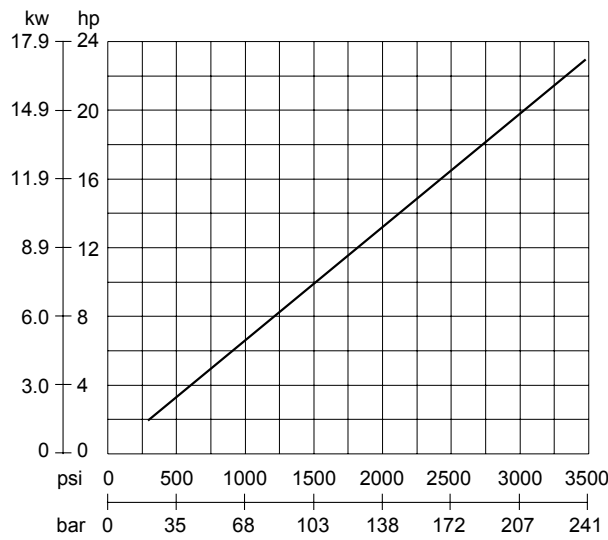


Axial Piston Pumps, Variable Displacement, Pressure Compensated

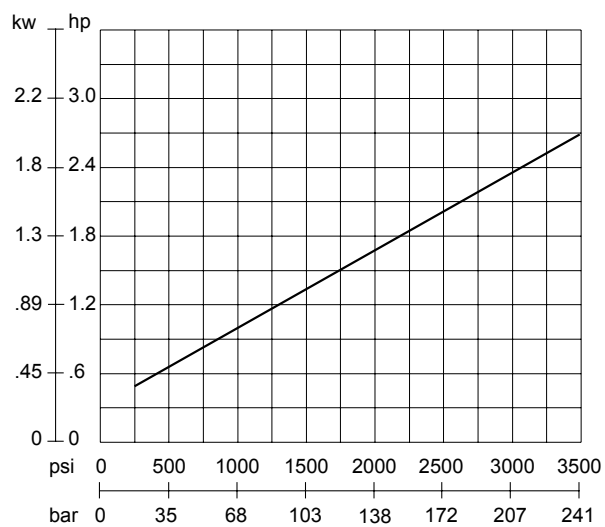
FLOW vs PRESSURE



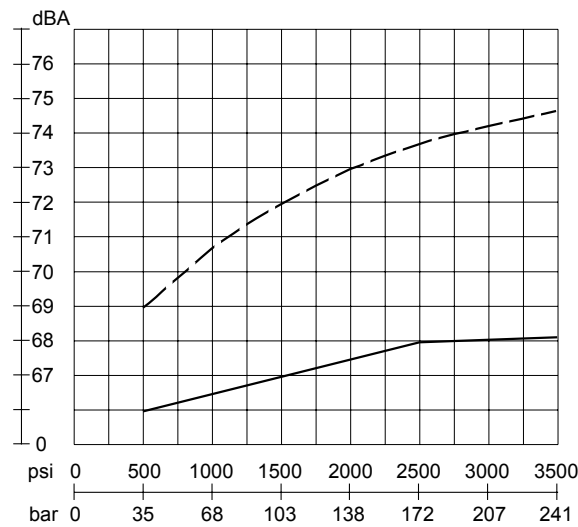
INPUT POWER @ FULL FLOW



INPUT POWER @ ZERO FLOW



NOISE LEVEL
Zero Flow = ———
Full Flow = - - - - -



THE ABOVE DATA IS TYPICAL PERFORMANCE AT 1750 RPM.

INSTALLATION DIMENSIONS -- REAR PORTS

PRESSURE COMPENSATOR ADJUSTMENT SCREW

(164.0)
6.47

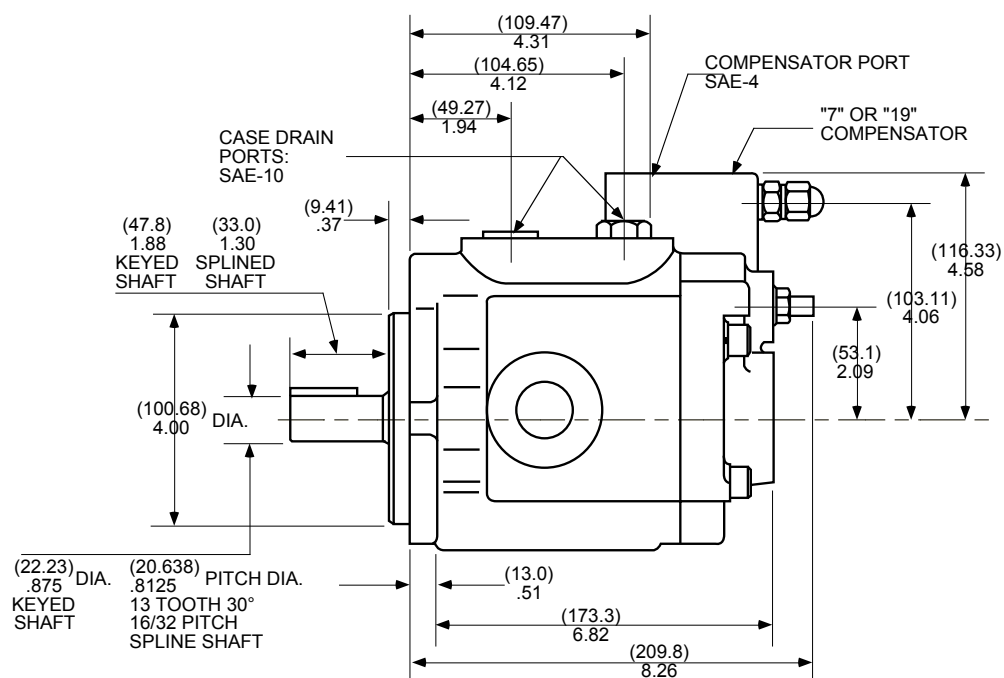
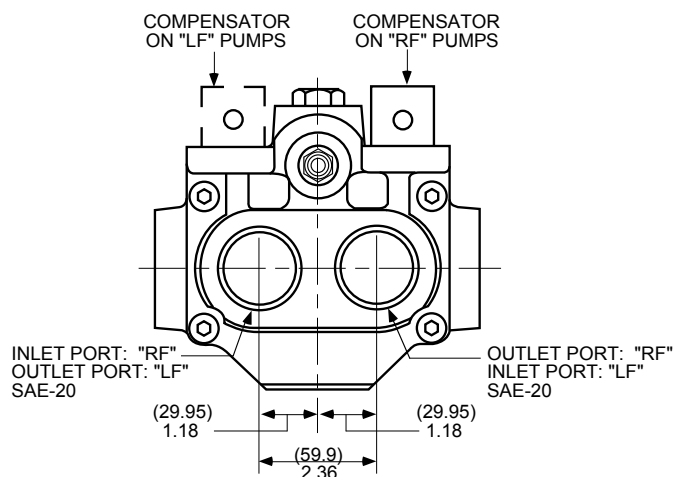
(146.1)
5.75

(95.3)
3.75

(14.5)
.57

(155.2)
6.11

(59.9)
2.36



Section 8.213

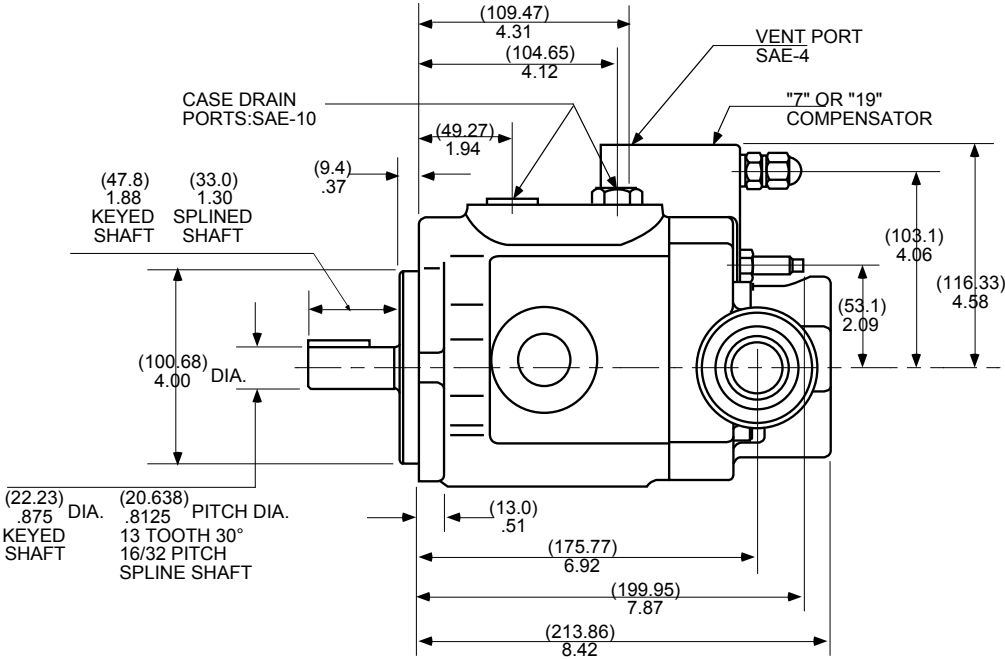
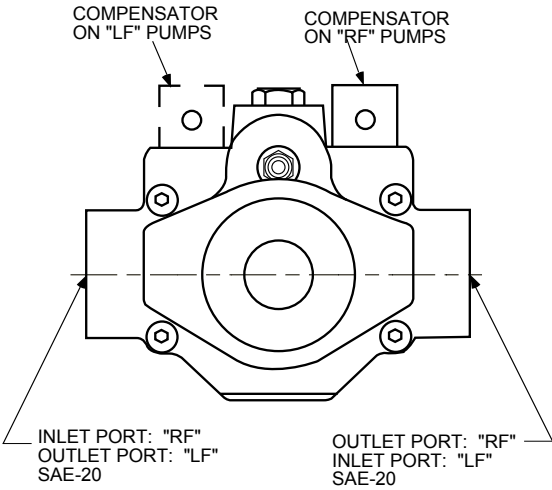
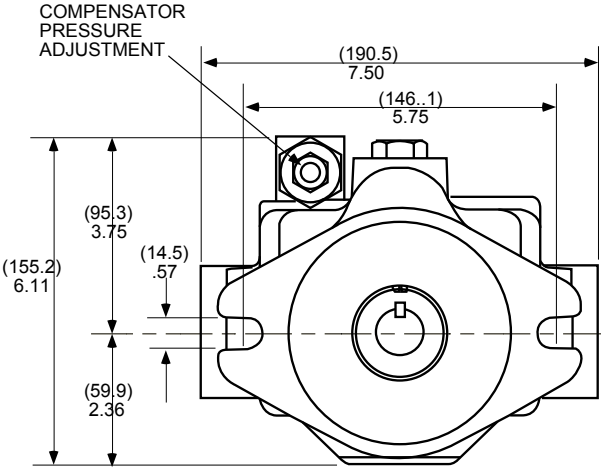
HPV10 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

INSTALLATION DIMENSIONS -- SIDE PORTS

MILLIMETERS)
INCHES



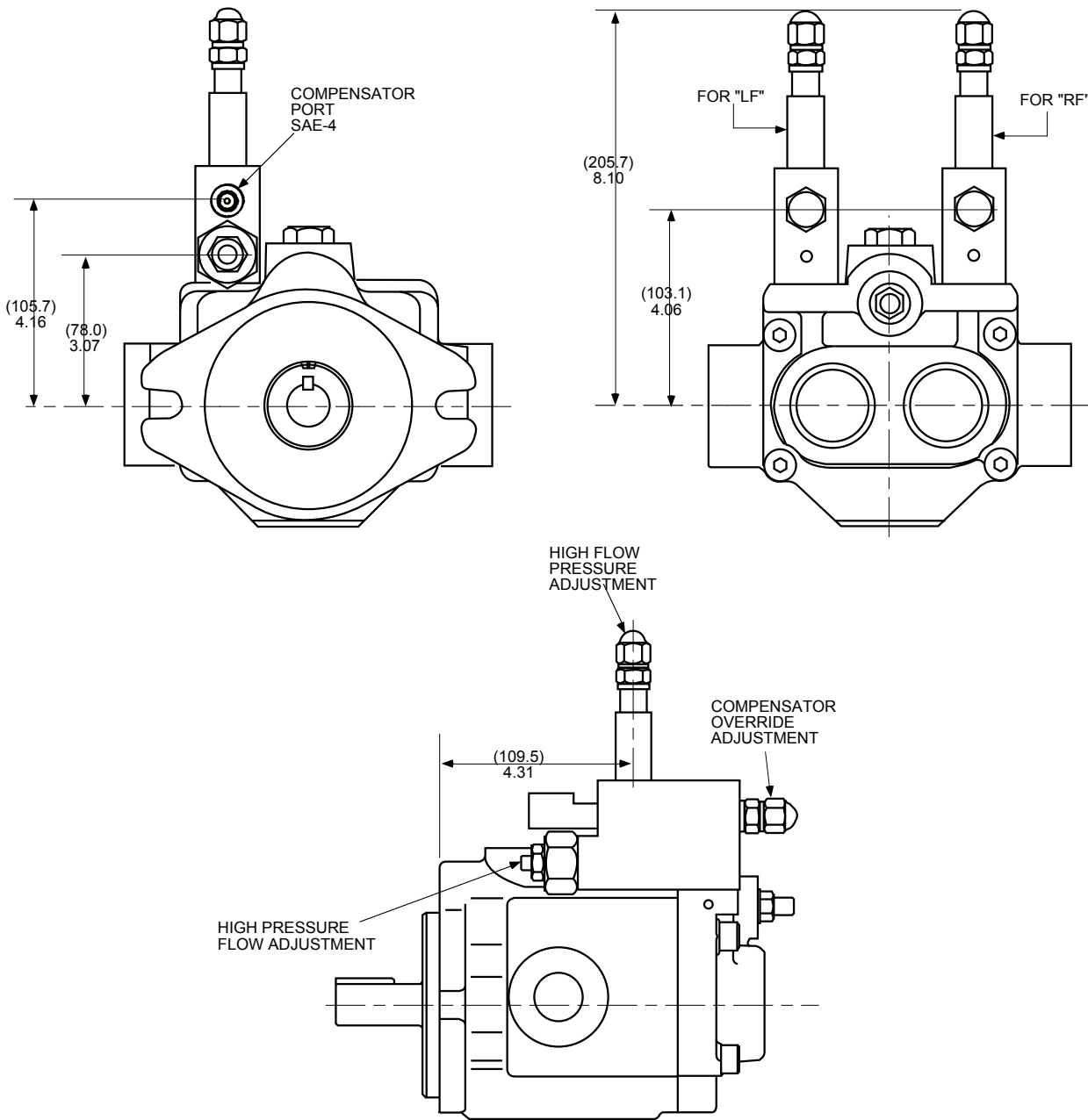
NOTE: KEY SIZE = 1/4" x 1.25".

HPV10 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

HORSEPOWER LIMITING DIMENSIONS

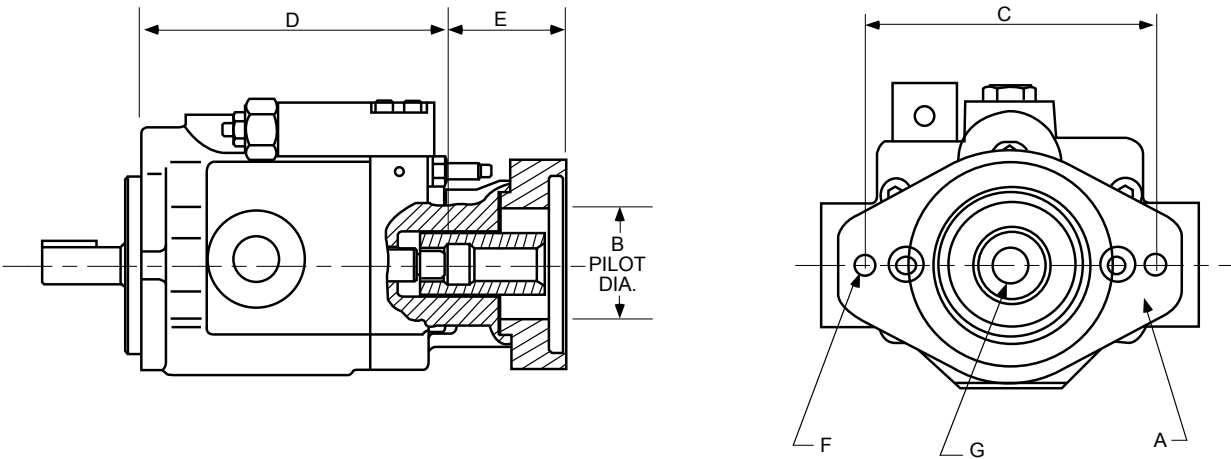


HPV10 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

CODES 21, 22, 31 -- TANDEM OPTIONS



NOTE: HPV-10 WITH THE "CODE 22" OPTION IS PICTURED ABOVE.
OTHER OPTIONS WILL APPEAR DIFFERENTLY.

CODE	SAE 2-BOLT MTG PAD	DIMENSIONS (MILLIMETERS)					INTERNAL 30° INVOLUTE SPLINE	MAX. HP RATING *	MAX. TORQUE RATING *
		B	C	D	E	F			
21	"A" FLANGE	(82.6) 3.25	(106.17) 4.18	(239.0) 9.41	(58.58) 2.07	3/8-16 UNC	9 TOOTH 16/32 PITCH 0.5625" PITCH DIA.	8.5 HP @ 1750 RPM	306 lb. in.
22	"B" FLANGE	(101.7) 4.00	(146.1) 5.75	(229.36) 9.03	(56.64) 2.23	1/2-13 UNC	13 TOOTH 16/32 PITCH 0.8125" PITCH DIA.	28.1 HP @ 1750 RPM	1013 lb. in.
31	"A-B" FLANGE	(82.6) 3.25	(106.17) 4.18	(239.0) 9.41	(52.58) 2.07	3/8-16 UNC	13 TOOTH 16/32 PITCH 0.8125 PITCH DIA.	28.1 HP @ 1750 RPM	1013 lb. in.

* THIS IS THE MAXIMUM HORSEPOWER OR TORQUE THAT CAN BE TRANSMITTED THROUGH THE SHAFT COUPLING TO THE REAR PUMP.

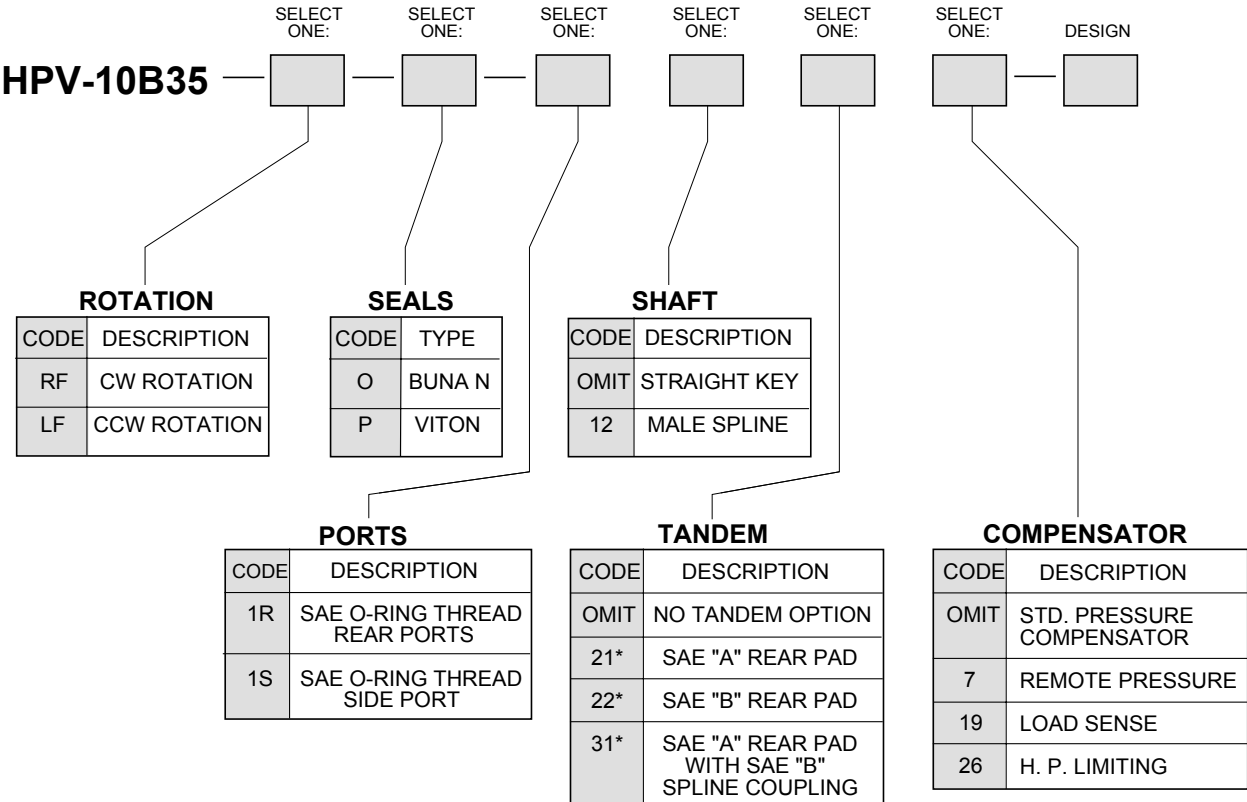
NOTE: CODE 1S PORT OPTIONS MUST BE ORDERED WITH ALL TANDEM OPTIONS.

HPV10 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

ORDERING INFORMATION



* NOTE CODE 1S SIDE PORT OPTION MUST BE ORDERED WITH ALL TANDEM OPTIONS.

TYPICAL ORDERING CODE: HPV-10B35-RF-O-1R