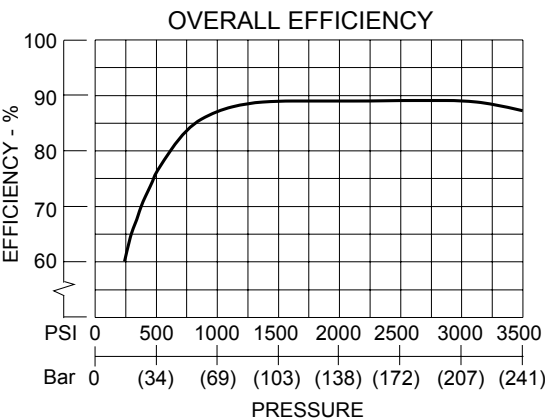


HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

VARIABLE DISPLACEMENT PRESSURE COMPENSATED



TYPICAL PERFORMANCE SPECIFICATIONS

VOLUMETRIC DISPLACEMENT		cu.in. / rev.	2.62
		ml. / rev.	42.9
PUMP DELIVERY @ 1750 rpm	Theoretical	gpm	19.85
		lpm	75.03
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 @ rated flow & pressure	(1750 RPM)	hp	47
		kw	35
CASE DRAIN FLOW @ deadhead & rated pressure		gpm	.8
		lpm	3.0
MOUNTING	Keyed Shaft	SAE Type	"C" 2-Bolt
FLANGE	Spline Shaft	SAE Type	"C" 2-Bolt
SHIPPING WEIGHT	Rear Port	lbs.	67
		kgs.	30.5
	Side Port	lbs.	84
		kgs.	38.2
	Tandem	lbs.	93
		kgs.	42.3

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

RPM	Maximum Case Pressure		Maximum Inlet Pressure		Minimum Inlet Pressure	
	psi	bar	psi	bar	vacuum / pressure	vacuum / pressure
1800	10	0.69	50	3.4	6.12 in-Hg	155.5 mm-Hg
2050	7	0.48	50	3.4	6.12 in-Hg	155.5 mm-Hg
2100	5	0.34	50	3.4	4.99 in-Hg	126.7 mm-Hg
2200	5	0.34	50	3.4	2.55 in-Hg	64.8 mm-Hg
2300	5	0.34	50	3.4	0	0
2400	5	0.34	50	3.4	1.31 psi	.09 bar

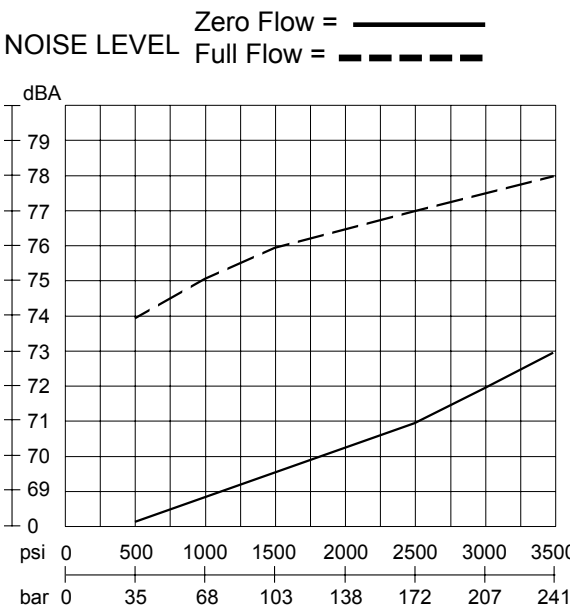
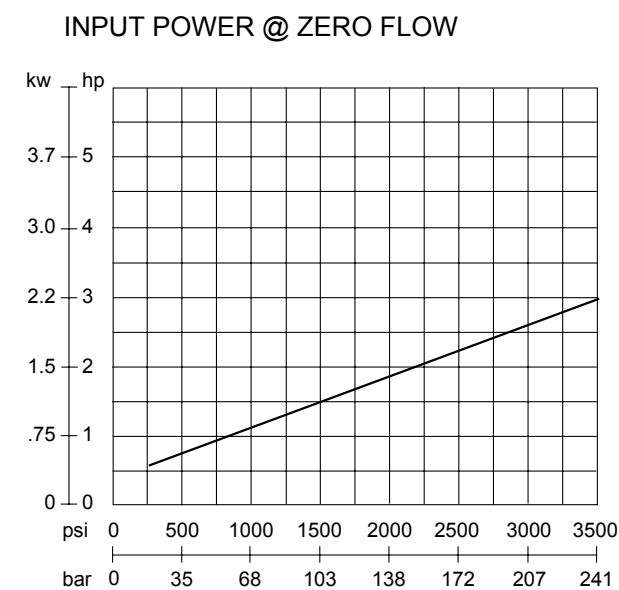
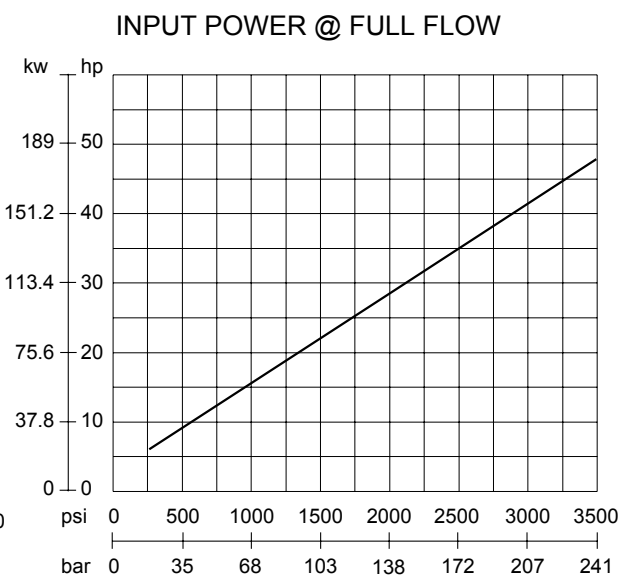
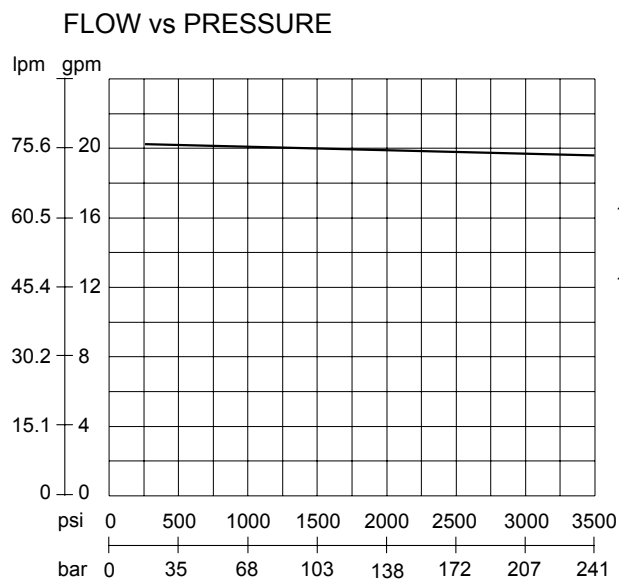
PRESSURE & VOLUME ADJUSTMENT SENSITIVITY

Pressure Adjustment	Pressure Change per Turn	650 psi	44.8 bar
Volume Adjustment	Flow Change per Turn	2.1 gpm	7.9 lpm
	Maximum Torque	49 in-lbs.	5.5 Nm

HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated



THE ABOVE DATA IS TYPICAL PERFORMANCE AT 1750 RPM.

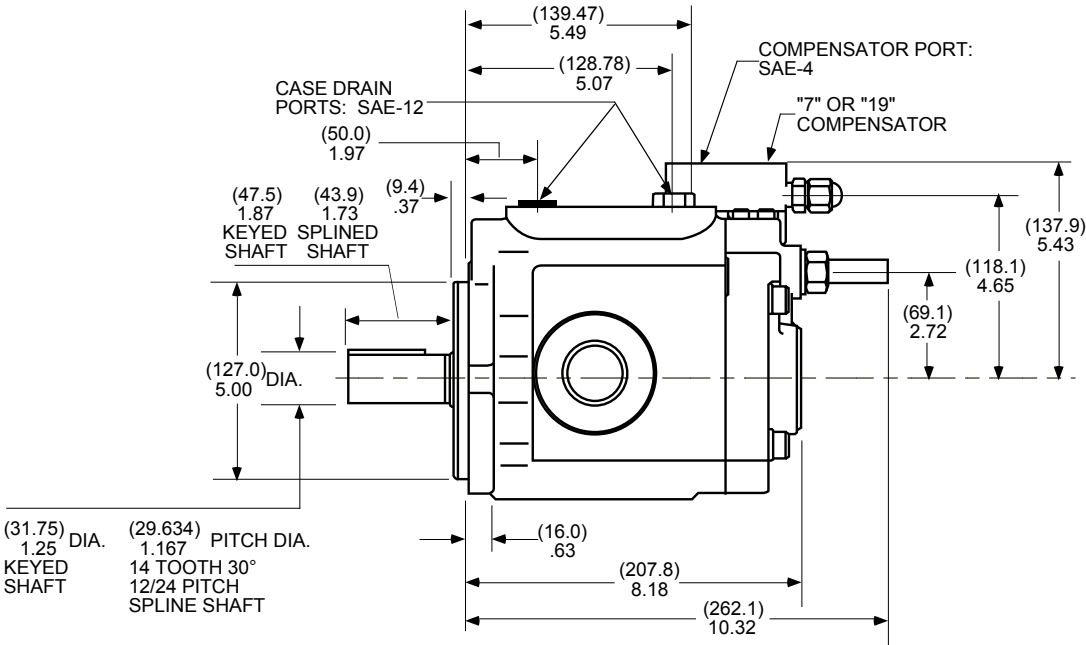
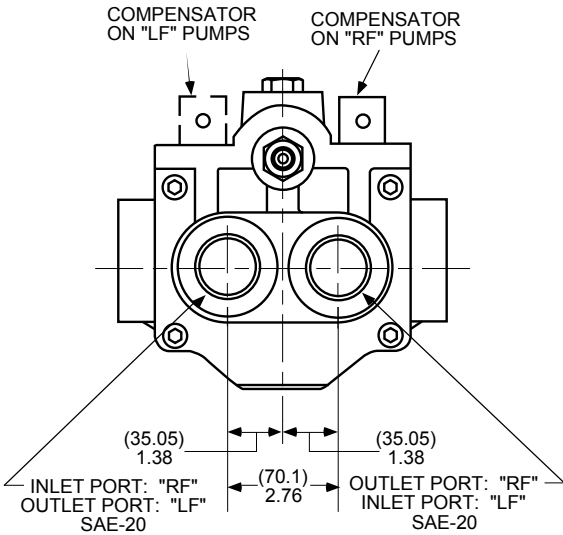
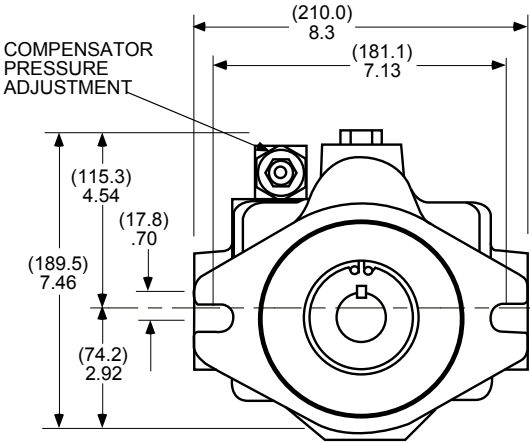
HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

INSTALLATION DIMENSIONS -- REAR PORTS

(MILLIMETERS)
INCHES



NOTE: KEY SIZE = 5/16" x 1.25".

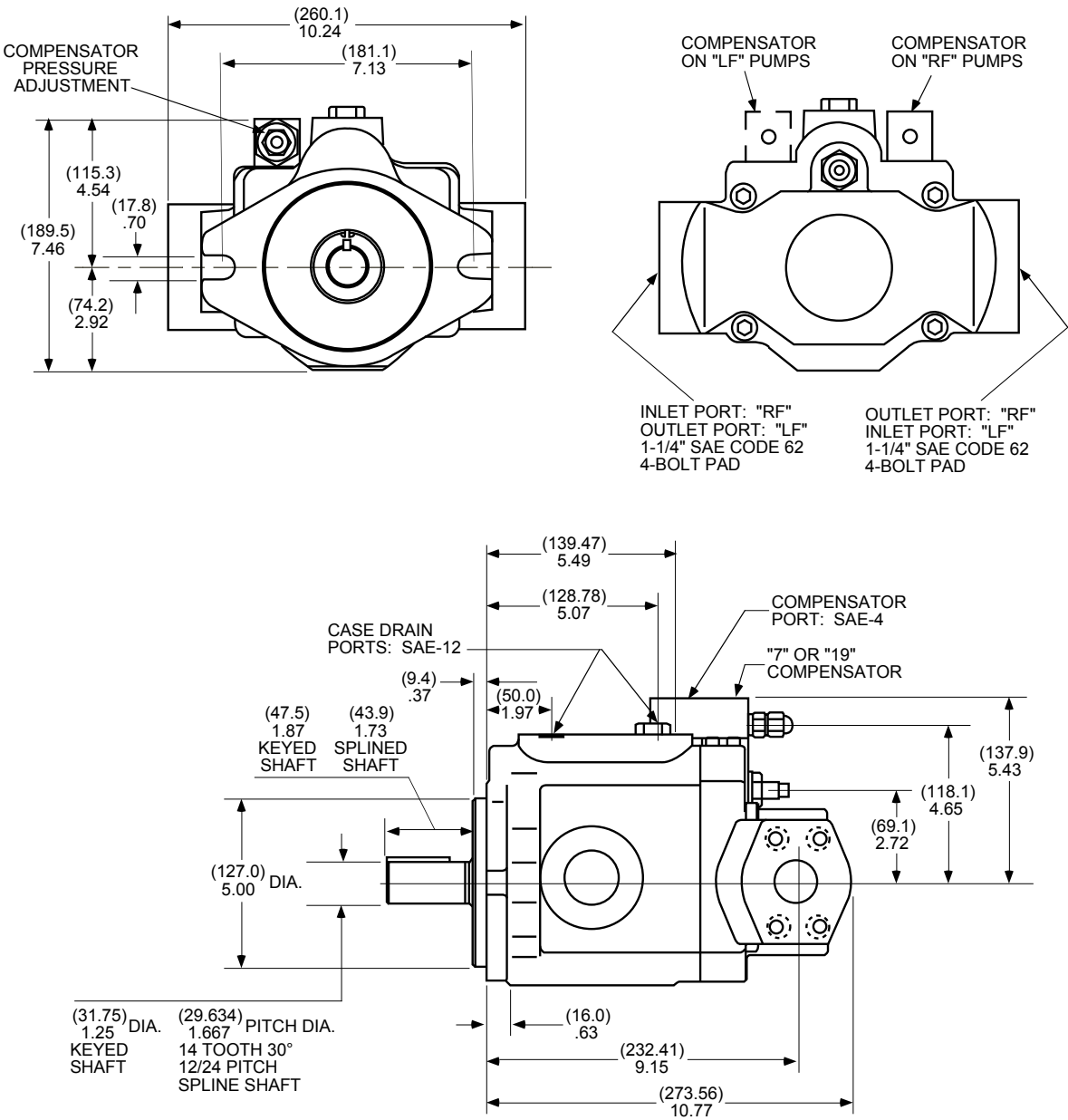
HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

INSTALLATION DIMENSIONS -- SIDE PORTS

(MILLIMETERS)
INCHES



NOTE: KEY SIZE = 5/16" x 1.25".

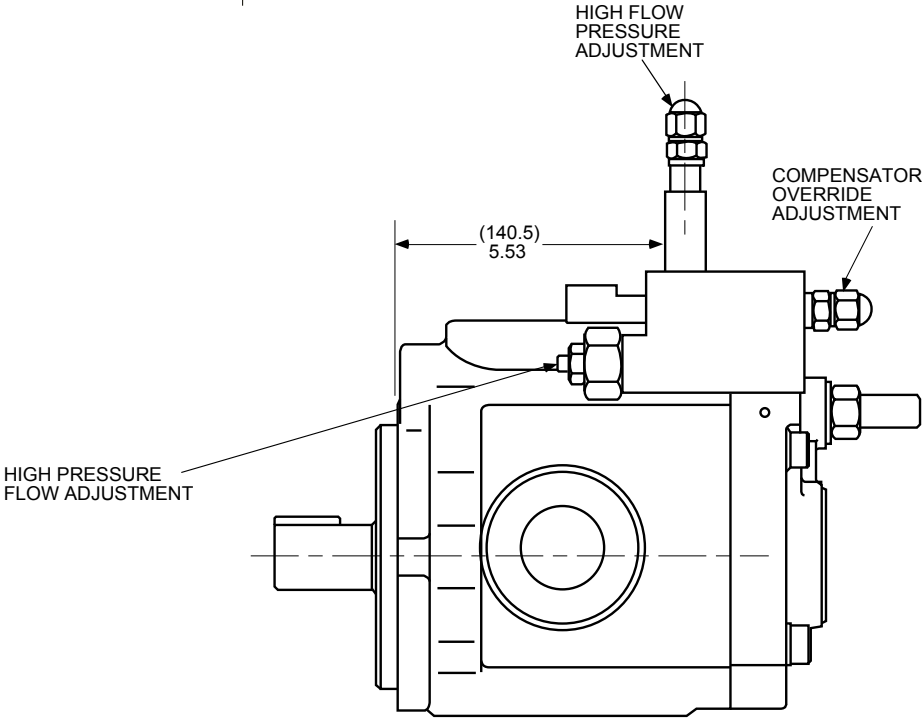
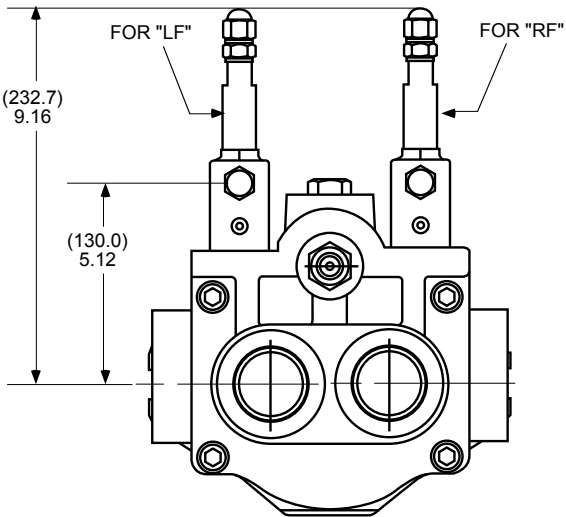
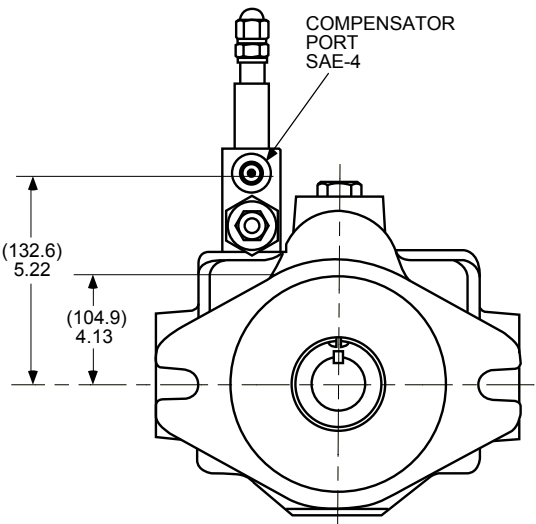
HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

HORSEPOWER LIMITING DIMENSIONS

(MILLIMETERS)
INCHES



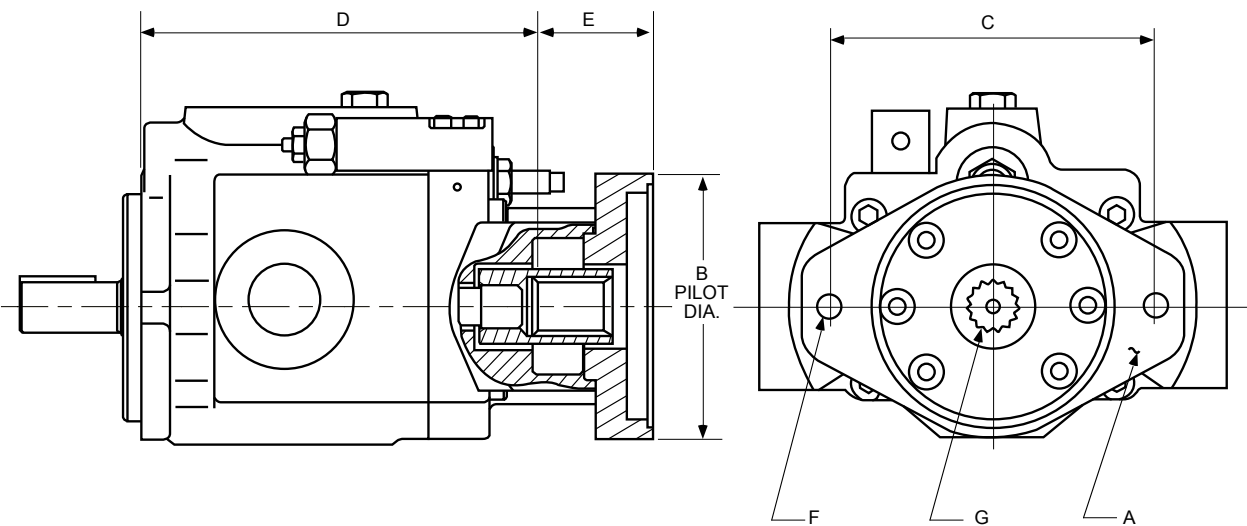
HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

CODES 21, 22, 23 & 31 -- TANDEM OPTIONS

(MILLIMETERS)
INCHES



NOTE: HPV-20 WITH THE CODE "23" OPTION IS PICTURED ABOVE.
OTHER OPTIONS WILL APPEAR DIFFERENTLY.

CODE	SAE 2-BOLT MTG PAD	DIMENSIONS					INTERNAL 30° INVOLUTE SPLINE	MAX. HP RATING *	MAX. TORQUE RATING *
		(MILLIMETERS)	(MILLIMETERS)	(MILLIMETERS)	(MILLIMETERS)	(INCHES)			
	A	B	C	D	E	F	G		
21	"A" FLANGE	(82.6) 3.25	(106.17) 4.18	(239.0) 9.41	(52.58) 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.
23	"C" FLANGE	(127.0) 5.00	(181.10) 7.13	(221.74) 8.73	(64.26) 2.53	5/8-11 UNC	14 TOOTH 12/24 PITCH 1.1667" PITCH DIA.	43.8 HP @ 1750 RPM	1576 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.

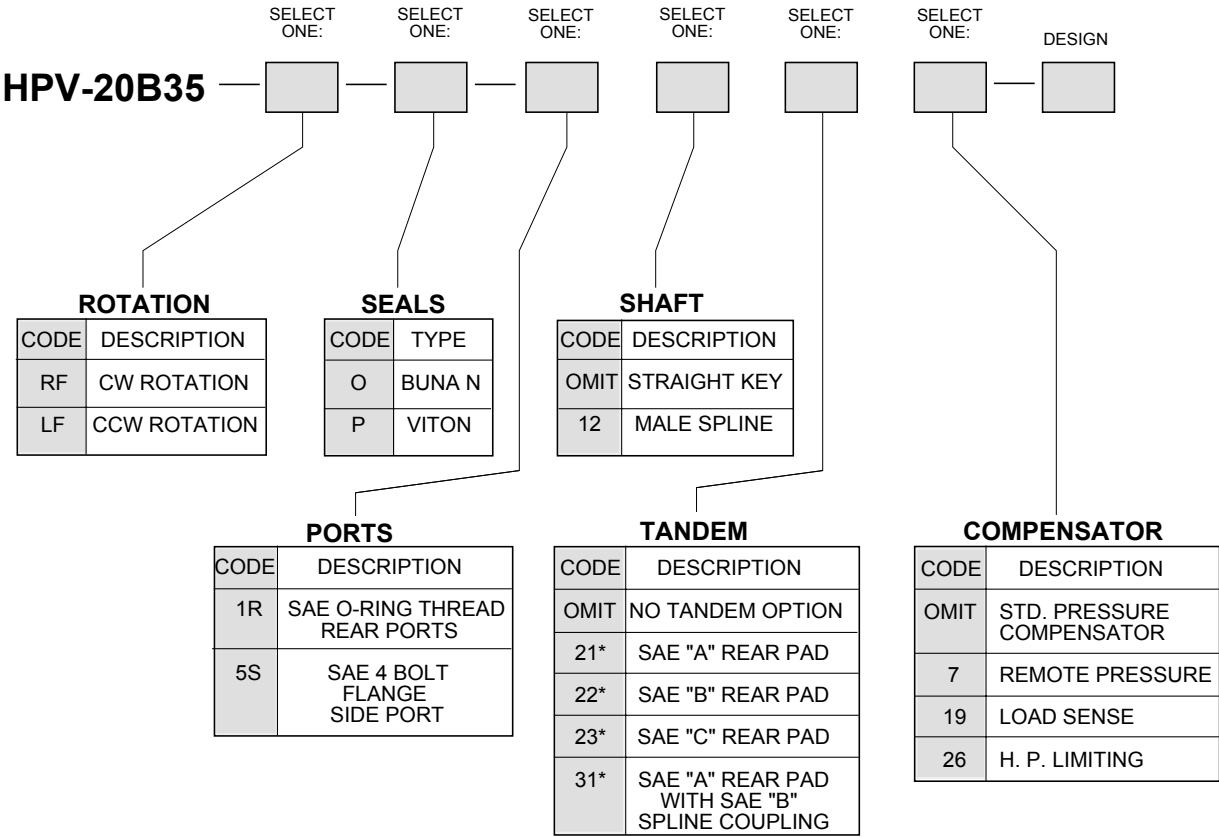
NOTE: CODE 5S SIDE PORT OPTION MUST BE
ORDERED WITH ALL TANDEM OPTIONS.

HPV20 Series



Axial Piston Pumps, Variable Displacement, Pressure Compensated

ORDERING INFORMATION



* NOTE CODE 5S SIDE PORT OPTION MUST BE ORDERED WITH ALL TANDEM OPTIONS.

TYPICAL ORDERING CODE: HPV-20B35-RF-O-1R