

## MULTIPLE PUMPS – SINGLE ELEMENTS

### DISPLACEMENT, PRESSURES AND SPEED

	Type	Displacement	Max Pressure	Min speed	Max Speed
XV-0P	XV-0P/0.17	0.16 cm <sup>3</sup> /giro	260 bar	700 giri/min	9000 giri/min
	XV-0P/0.25	0.24 cm <sup>3</sup> /giro	260 bar	700 giri/min	9000 giri/min
	XV-0P/0.45	0.45 cm <sup>3</sup> /giro	280 bar	700 giri/min	9000 giri/min
	XV-0P/0.57	0.56 cm <sup>3</sup> /giro	280 bar	700 giri/min	9000 giri/min
	XV-0P/0.76	0.75 cm <sup>3</sup> /giro	280 bar	700 giri/min	9000 giri/min
	XV-0P/0.98	0.92 cm <sup>3</sup> /giro	280 bar	700 giri/min	6000 giri/min
	XV-0P/1.27	1.26 cm <sup>3</sup> /giro	280 bar	700 giri/min	6000 giri/min
	XV-0P/1.52	1.48 cm <sup>3</sup> /giro	280 bar	700 giri/min	6000 giri/min
	XV-0P/2.30	2.28 cm <sup>3</sup> /giro	210 bar	700 giri/min	5000 giri/min
XV-1P	XV-1P/0.9	0.91 cm <sup>3</sup> /giro	280 bar	700 giri/min	6000 giri/min
	XV-1P/1.2	1.17 cm <sup>3</sup> /giro	290 bar	700 giri/min	6000 giri/min
	XV-1P/1.7	1.56 cm <sup>3</sup> /giro	290 bar	700 giri/min	6000 giri/min
	XV-1P/2.2	2.08 cm <sup>3</sup> /giro	290 bar	700 giri/min	6000 giri/min
	XV-1P/2.6	2.60 cm <sup>3</sup> /giro	300 bar	700 giri/min	6000 giri/min
	XV-1P/3.2	3.12 cm <sup>3</sup> /giro	300 bar	700 giri/min	6000 giri/min
	XV-1P/3.8	3.64 cm <sup>3</sup> /giro	300 bar	700 giri/min	6000 giri/min
	XV-1P/4.3	4.16 cm <sup>3</sup> /giro	300 bar	700 giri/min	6000 giri/min
	XV-1P/4.9	4.94 cm <sup>3</sup> /giro	300 bar	700 giri/min	6000 giri/min
	XV-1P/5.9	5.85 cm <sup>3</sup> /giro	300 bar	700 giri/min	5000 giri/min
	XV-1P/6.5	6.50 cm <sup>3</sup> /giro	300 bar	700 giri/min	5000 giri/min
	XV-1P/7.8	7.54 cm <sup>3</sup> /giro	260 bar	700 giri/min	5000 giri/min
	XV-1P/9.8	9.88 cm <sup>3</sup> /giro	230 bar	700 giri/min	4000 giri/min
XV-2P	XV-2P/4	4.2 cm <sup>3</sup> /giro	300 bar	700 giri/min	3500 giri/min
	XV-2P/6	6.0 cm <sup>3</sup> /giro	300 bar	700 giri/min	3500 giri/min
	XV-2P/9	8.4 cm <sup>3</sup> /giro	300 bar	700 giri/min	3500 giri/min
	XV-2P/11	10.8 cm <sup>3</sup> /giro	300 bar	700 giri/min	3500 giri/min
	XV-2P/14	14.4 cm <sup>3</sup> /giro	290 bar	700 giri/min	3500 giri/min
	XV-2P/17	16.8 cm <sup>3</sup> /giro	270 bar	700 giri/min	3500 giri/min
	XV-2P/19	19.2 cm <sup>3</sup> /giro	250 bar	700 giri/min	3000 giri/min
	XV-2P/22	22.8 cm <sup>3</sup> /giro	240 bar	700 giri/min	3000 giri/min
	XV-2P/26	26.2 cm <sup>3</sup> /giro	210 bar	700 giri/min	3000 giri/min
	XV-2P/30	30.0 cm <sup>3</sup> /giro	200 bar	700 giri/min	2500 giri/min
	XV-2P/34	34.2 cm <sup>3</sup> /giro	190 bar	700 giri/min	2500 giri/min
XV-3P	XV-3P/15	14.89 cm <sup>3</sup> /giro	320 bar	700 giri/min	3000 giri/min
	XV-3P/18	17.37 cm <sup>3</sup> /giro	320 bar	700 giri/min	3000 giri/min
	XV-3P/21	21.10 cm <sup>3</sup> /giro	300 bar	700 giri/min	3000 giri/min
	XV-3P/27	26.97 cm <sup>3</sup> /giro	270 bar	700 giri/min	3000 giri/min
	XV-3P/32	32.27 cm <sup>3</sup> /giro	270 bar	700 giri/min	3000 giri/min
	XV-3P/38	38.47 cm <sup>3</sup> /giro	270 bar	700 giri/min	2800 giri/min
	XV-3P/43	43.44 cm <sup>3</sup> /giro	250 bar	700 giri/min	2800 giri/min
	XV-3P/47	47.16 cm <sup>3</sup> /giro	250 bar	700 giri/min	2800 giri/min
	XV-3P/51	50.88 cm <sup>3</sup> /giro	250 bar	700 giri/min	2800 giri/min
	XV-3P/54	54.60 cm <sup>3</sup> /giro	250 bar	700 giri/min	2300 giri/min
	XV-3P/61	60.81 cm <sup>3</sup> /giro	220 bar	700 giri/min	2300 giri/min
	XV-3P/64	64.53 cm <sup>3</sup> /giro	220 bar	700 giri/min	2300 giri/min
	XV-3P/70	70.74 cm <sup>3</sup> /giro	210 bar	700 giri/min	2300 giri/min
XV-3P/74	74.46 cm <sup>3</sup> /giro	190 bar	700 giri/min	2300 giri/min	
XV-3P/90	86.87 cm <sup>3</sup> /giro	160 bar	700 giri/min	2300 giri/min	

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## General technical data

Type of fluid to be used	Mineral-based hydraulic oil HLP HV (D IN 51524)
Minimum operating viscosity	10 mm <sup>2</sup> /s
Maximum operating viscosity	100 mm <sup>2</sup> /s
Maximum admissible viscosity at start-up	1500 mm <sup>2</sup> /s
Recommended viscosity	20 mm <sup>2</sup> /s - 100 mm <sup>2</sup> /s
Ambient temperature	-20 °C - 60°C
Fluid operating temperature	-15°C - 80°C
Recommended fluid operating temperature	30°C - 50°C
For temperatures above 120°C	Request FKM seals ( Viton)
Max. inlet fluid suction pressure (IN)	0.02-0.08 bars
Max. inlet fluid pressure (IN)	0.3 - 0.5 bars (for higher pressures consult the manufacturer)
Inlet fluid filtering (IN)	30 - 60 Microns
Outlet fluid filtering (OUT)	10 - 25 Microns
Max. inlet fluid speed (IN)	0.5 - 1.5 m/s
Max. outlet fluid speed (OUT)	3.0 - 5.5m/s
Use of water-glycol (HF-C)	max n. of revolutions 1100 rpm; max pressure 170 bars

## Flow rate tables

TYPE	cm3/ rev		rpm														Flow rate l/min		
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	7000	8000		9000	
XV 0P/0.17	0,16	Flow rate l/min	0,106	0,152	0,228	0,304	0,380	0,456	0,532	0,608	0,684	0,760	0,836	0,912	1,064	1,216	1,368	Flow rate l/min	
XV 0P/0.25			0,160	0,228	0,342	0,456	0,570	0,684	0,798	0,912	1,026	1,140	1,254	1,368	1,596	1,824	2,052		
XV 0P/0.45	0,45		0,299	0,428	0,641	0,855	1,069	1,283	1,496	1,710	1,924	2,138	2,351	2,565	2,993	3,420	3,848		
XV 0P/0.57			0,372	0,532	0,798	1,064	1,330	1,596	1,862	2,128	2,394	2,660	2,926	3,192	3,724	4,256	4,788		
XV 0P/0.76	0,75		0,499	0,713	1,069	1,425	1,781	2,138	2,494	2,850	3,206	3,563	3,919	4,275	4,988	5,700	6,413		
XV 0P/0.98			0,612	0,874	1,311	1,748	2,185	2,622	3,059	3,496	3,933	4,370	4,807	5,244					
XV 0P/1.27	1,26		0,838	1,197	1,796	2,394	2,993	3,591	4,190	4,788	5,387	5,985	6,584	7,182					
XV 0P/1.52			0,984	1,406	2,109	2,812	3,515	4,218	4,921	5,624	6,327	7,030	7,733	8,436					
XV 0P/2.30	2,28		1,516	2,166	3,249	4,332	5,415	6,498	7,581	8,664	9,747	10,830							

TYPE	cm3/ rev		rpm											Flow rate l/min	
			700	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500		6000
XV 1P/0.9	0,91	Flow rate l/min	0,630	0,900	1,350	1,800	2,250	2,700	3,150	3,600	4,050	4,500	4,950	5,400	Flow rate l/min
XV 1P/1.2	1,17		0,840	1,200	1,800	2,400	3,000	3,600	4,200	4,800	5,400	6,000	6,600	7,200	
XV 1P/1.7	1,56		1,190	1,700	2,550	3,400	4,250	5,100	5,950	6,800	7,650	8,500	9,350	10,200	
XV 1P/2.2	2,08		1,540	2,200	3,300	4,400	5,500	6,600	7,700	8,800	9,900	11,000	12,100	13,200	
XV 1P/2.6	2,6		1,820	2,600	3,900	5,200	6,500	7,800	9,100	10,400	11,700	13,000	14,300	15,600	
XV 1P/3.2	3,12		2,240	3,200	4,800	6,400	8,000	9,600	11,200	12,800	14,400	16,000	17,600	19,200	
XV 1P/3.8	3,64		2,660	3,800	5,700	7,600	9,500	11,400	13,300	15,200	17,100	19,000	20,900	22,800	
XV 1P/4.3	4,16		3,010	4,300	6,450	8,600	10,750	12,900	15,050	17,200	19,350	21,500	23,650	25,800	
XV 1P/4.9	4,94		3,430	4,900	7,350	9,800	12,250	14,700	17,150	19,600	22,050	24,500	26,950	29,400	
XV 1P/5.9	5,85		4,130	5,900	8,850	11,800	14,750	17,700	20,650	23,600	26,550	29,500			
XV 1P/6.5	6,5		4,550	6,500	9,750	13,000	16,250	19,500	22,750	26,000	29,250	32,500			
XV 1P/7.8	7,54		5,460	7,800	11,700	15,600	19,500	23,400	27,300	31,200	35,100	39,000			
XV 1P/9.8	9,88		6,860	9,800	14,700	19,600	24,500	29,400	34,300	39,200					

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TYPE	cm3/rev	rpm								
		700	1000	1500	2000	2500	3000	3500		
XV 2P/4	4,2	Flow rate l/min	2,800	4,000	6,000	8,000	10,000	12,000	14,000	Flow rate l/min
XV 2P/6	6		4,200	6,000	9,000	12,000	15,000	18,000	21,000	
XV 2P/9	8,4		6,300	9,000	13,500	18,000	22,500	27,000	31,500	
XV 2P/11	10,8		7,700	11,000	16,500	22,000	27,500	33,000	38,500	
XV 2P/14	14,4		9,800	14,000	21,000	28,000	35,000	42,000	29,000	
XV 2P/17	16,8		11,900	17,000	25,500	34,000	42,500	51,000	59,500	
XV 2P/19	19,2		13,300	19,000	28,500	38,000	47,500	57,000		
XV 2P/22	22,8		15,400	22,000	33,000	44,000	55,000	66,000		
XV 2P/26	26,2		18,200	26,000	39,000	52,000	65,000	78,000		
XV 2P/30	30		21,000	30,000	45,000	60,000	75,000			
XV 2P/34	34,2		23,800	34,000	51,000	68,000	85,000			
XV 2P/40	39,6		28,000	40,000	60,000	80,000				

TYPE	cm3/rev	rpm								
		700	1000	1500	2000	2300	2500	3000		
XV 3P/15	14,89	Flow rate l/min	9,90	14,15	21,22	28,29	32,54	35,37	42,44	Flow rate l/min
XV 3P/18	17,37		11,55	16,51	24,76	33,01	37,96	41,26	49,52	
XV 3P/21	21,10		14,03	20,04	30,06	40,08	46,10	50,11	60,13	
XV 3P/27	26,97		17,94	25,62	38,43	51,24	58,93	64,05	76,86	
XV 3P/32	32,27		21,46	30,65	45,98	61,31	70,50	76,63	91,96	
XV 3P/38	38,47		25,58	36,55	54,82	73,09	84,06	91,37		
XV 3P/43	43,44		28,88	41,26	61,89	82,53	94,91	103,16		
XV 3P/47	47,16		31,36	44,80	67,20	89,60	103,04	112,00		
XV 3P/51	50,88		33,84	48,34	72,51	96,67	111,17			
XV 3P/54	54,60		36,31	51,87	77,81	103,75	119,31			
XV 3P/61	60,81		40,44	57,77	86,65	115,54	132,87			
XV 3P/64	64,53		42,91	61,31	91,96	122,61	141,00			
XV 3P/70	70,74		47,04	67,20	100,80	134,40	154,56			
XV 3P/74	74,46		49,52	70,74	106,11	141,47	162,70			
XV 3P/90	86,87		57,77	82,53	123,79	165,05	189,81			