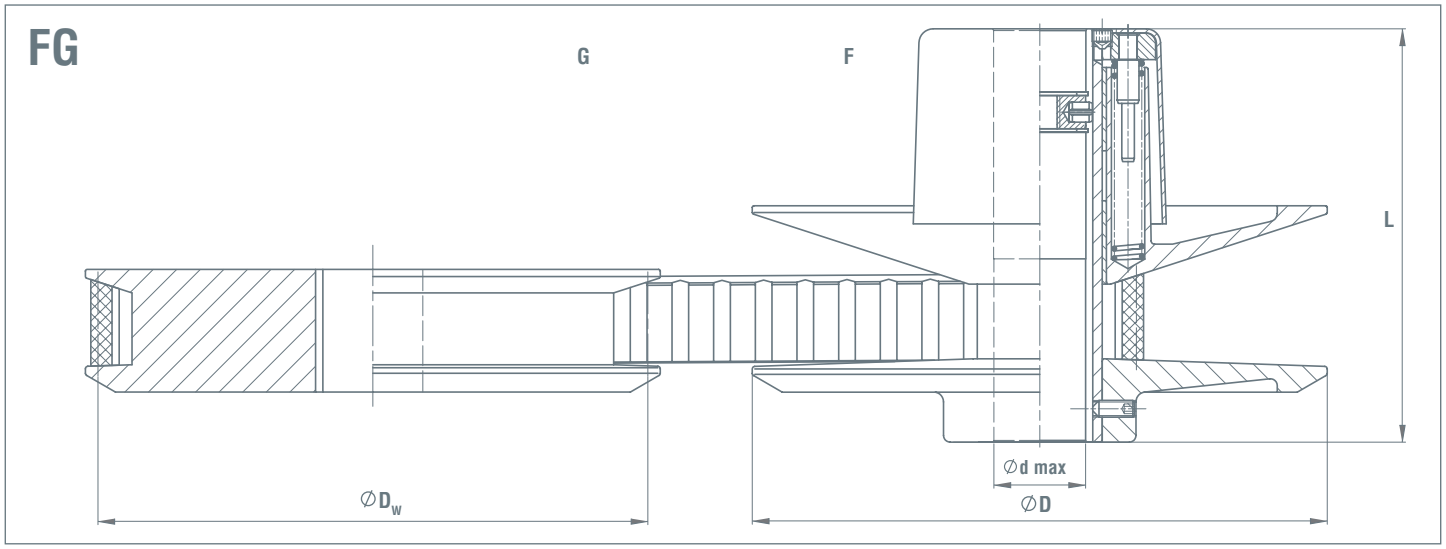
Asymmetrically variable speed pulleys

Single pulley drives FG

FG $P_{1\,max.}$ = 45 kW

Asymmetrical drive units FG for 0,75–45 kW motor ratings, comprising:
- spring-loaded regulating pulley F mounted on the motor shaft
- fixed-diameter driven pulley mounted on the machine or gear shaft.

The axial pressure on the V-belts is exerted by compression springs with optimally dimensioned characteristics. Speed variation is achieved by changing the centre-to-centre distance by means of a sliding motor base plate. Speed variation within ratio of 1:3. This system provides a high torque at a low output speed.



Single pulley drives FG:

Type	Speed-range max.	Motor n_1 in 1/min	Motor P_{1max} in kW	$n_2$max 1/min	$n_2$min 1/min	P_2max kW	P_2min kW	D1 mm	L1 mm	d max. mm	Dw F mm	dw F mm	Dw G mm	Wide V-belt mm
FG1	2,5	1470	0,75	860	340	0,69	0,5	125	88	20	118	46	200	18
FG1	2,5	1470	0,75	1545	605	0,69	0,5	125	88	20	118	46	112	18
FG2	3,0	1470	1,5	970	330	1,35	0,8	175	103	24	165	55	250	27
FG2	3,0	1470	1,5	1940	650	1,35	0,8	175	103	24	165	55	125	27
FG3	3,0	1470	4,0	930	315	3,6	1,4	210	120	28	200	67	315	30
FG3	3,0	1470	4,0	2620	880	3,6	1,4	210	120	28	200	67	112	30
FG4	3,0	1470	5,5	960	325	5,0	2,2	245	150	38	234	78	355	36
FG4	3,0	1470	5,5	2450	820	5,0	2,2	245	150	38	234	78	140	36
FG5	3,0	1470	7,5	800	265	6,75	4,3	285	177	45	272	90	500	42
FG5	3,0	1470	7,5	3075	1017	6,75	4,3	285	177	45	272	90	130	42
FG6	3,0	1470	22,0	970	325	19,8	10,5	345	248	60	330	110	500	52
FG6	3,0	1470	22,0	1940	645	19,8	10,5	345	248	60	330	110	250	52
FG7	2,5	1470	37,0	980	395	33,3	18,2	415	248	60	400	160	600	57
FG7	2,5	1470	37,0	1650	660	33,3	18,2	415	248	60	400	160	355	57
FG8	2,1	1470	45,0	1050	490	40,5	21,0	450	312	80	432	200	600	57
FG8	2,1	1470	45,0	1785	828	40,5	21,0	450	312	80	432	200	355	57