



Fixed Speed / Constant Fill Fluid Couplings

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The Steel Body Constant Fill Fluid Couplings

Type SF: are steel body constant fill Traction Coupling with a thin driving plate on motor side and metallic disc coupling on machine side. These couplings are radially displaceable. Maximum capacity is adjustable between 180% to 270%.



Type CBSF: are steel body constant fill fluid couplings with hollow shaft execution on one end and flexible coupling on the other end for respective shaft connections. They are available with delayfil chamber type CBSF DF and without delayfil type CBSF. Also available in Radially Displaceable execution having metallic disc flexible coupling on both ends.

They are suitable for operation with:

- Water - Oil emulsion as per HFB classification of European Mines safety commission.
- Mineral oil as operating fluid.
- Maximum torque transmitting capacity is adjustable between 180% to 270 % for CBSF and 150 to 270% CBSF DF delayfil couplings.



Type WF: are steel body constant fill fluid couplings with hollow shaft execution on one end and flexible coupling on the other end for respective shaft connection. They are available with delayfil chamber type WFDF and without delayfil type WF. Also available in Radially Displaceable execution having metallic disc flexible coupling on both ends.

They are suitable for operation with:

- Water (aqua)
- Water oil emulsion as per HFB classification of European Mines Safety Commission.
- Mineral Oil
- Maximum torque transmitting capacity is adjustable between 200% to 270% for type WF and 180% to 270% for WF DF.

These steel body fluid couplings are of extremely robust construction. They are ideal for use in underground or opencast mines or other sites where use of aluminum is prohibited or where robust construction is necessary with simplicity of construction.

These steel body fluid couplings are being manufactured by us since 1976 and are very well proven on various mining and surface applications.

They offer all the advantages and performance characteristics of any other aluminium body Fluidomat Fluid Couplings

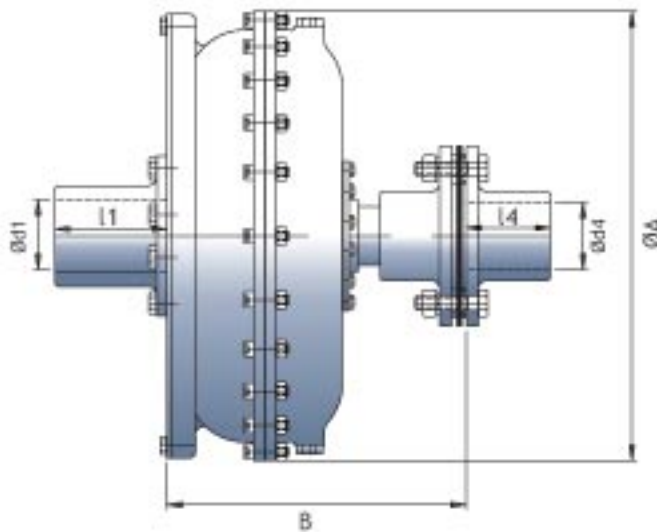
- Virtually no load start and run up of motor and utilization of motor peak torque for load acceleration.
- Smooth and controlled acceleration of driven machine.
- Quick decay of motor starting current kick.
- Adjustable starting characteristics and load limiting.
- Dampening of shock loads, torsional fluctuations and vibrations.

KW Ratings at different speeds (RPM)

SF/CBSF & CBSFDF							
Model	600	750	900	1000	1200	1500	1800
4	1	1.8	3	4	8	15	22
6	2.6	5	9	12	20	40	60
7	4	7.5	13	18	31	60	80
8	5.6	11	19	26	45	80	114
9	10	19	33	45	78	152	197
10	14.4	28	48	66	115	224	290
11*	33	64	111	152	262	373	--
12*	46	90	155	213	368	485	--

* Models not offered in type SF

WF/WDF							
Model	600	750	900	1000	1200	1500	1800
4	1	1.8	3	4	8	15	22
360	2.6	5	9	12	20	40	55
5	4	7.5	13	18	31	55	75
6	5.6	11	19	26	45	75	100
7	10	19	33	45	78	140	175
8	14.4	28	48	66	115	205	230
9	33	64	111	152	235	335	440
10	46	90	155	213	331	480	-

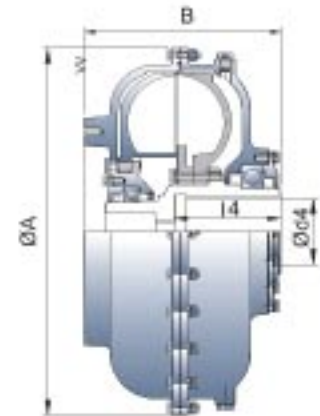


Technical Specification and Dimension Table for coupling type SF

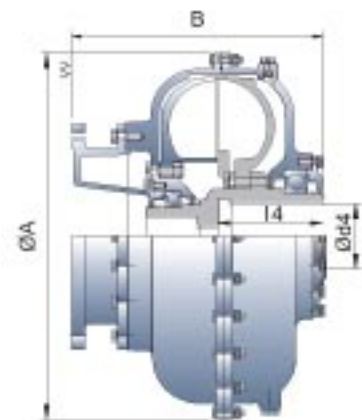
Fluid Coupling Model SF	ØA	B	Ød 1 MAX	l1	Ød 4 MAX	l 4	Flex. Coupling Model FXC	Dry Wt. Kg	Max filling liters
4	375	250	50	80	55	70	II	55	3.5
6	418	290	75	110	90	95	III	82	5.6
7	470	300	75	110	90	95	III	98	7.2
8	508	310	75	110	90	95	III	106	10.7
9	570	330	110	140	110	110	III	190	11.5
10	620	345	110	140	110	125	IV	205	17.7

Model	A	B	Ød4 Max	L4	Threads "M" BSW	Flexible coupling model
WF-4, CBSF-4	380	154	42	80	1"	FFX-1
WFDF-4, CBSFDF-4	380	240	42	80	1"	FFX-1
WF-360, CBSF-6	436	220	55	112	1"	FFX-3
WFDF-360, CBSFDF-6	436	316	55	112	1"	FFX-3
WF-5, CBSF-7	470	235	75	135	1"	FFX-3
WFDF-5, CBSFDF-7	470	280	75	135	1"	FFX-3
WF-6, CBSF-8	508	260	85	142	1¼"	FFX-4
WFDF-6, CBSFDF-8	508	377	85	142	1¼"	FFX-4
WF-7, CBSF-9	570	276	90	155	1½"	FFX-4
WFDF-7, CBSFDF-9	570	396	90	155	1½"	FFX-4
WF-8, CBSF-10	620	310	100	170	1½"	FP-1
WFDF-8, CBSFDF-10	620	375	100	170	Ø50-8P	FP-1
WF-9, CBSF-11	730	342	120	200	Ø50-8P	FP-2
WFDF-9, CBSFDF-11	730	494	120	200	Ø50-8P	FP-2
WF-10, CBSF-12	776	405	120	200	Ø50-8P	FP-2
WFDF-10, CBSFDF-12	776	590	120	200	Ø50-8P	FP-2

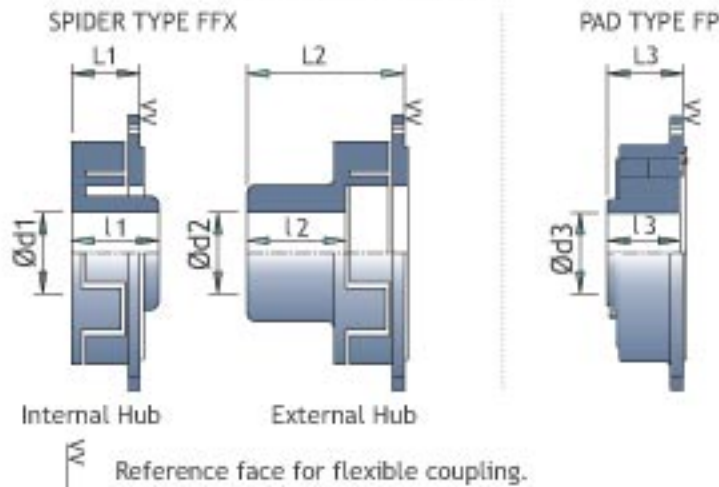
TYPE:- WF, CBSF



TYPE:-WFDF, CBSF DF



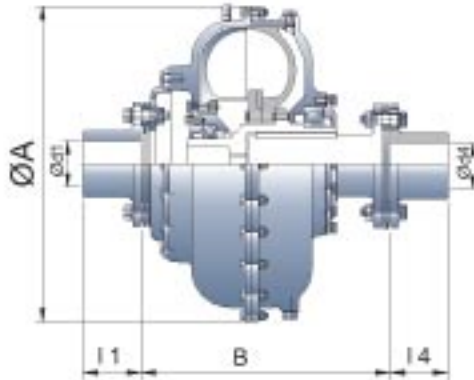
FLEXIBLE COUPLING



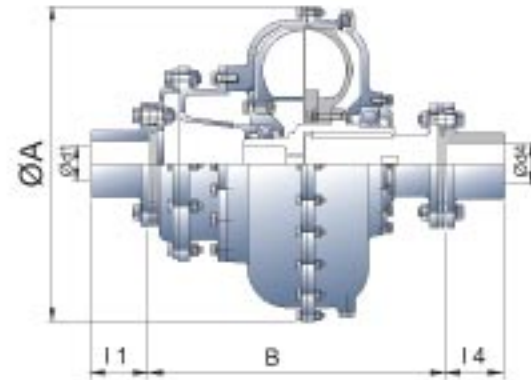
Flexible Coupling model	Internal Hub			External Hub			Pad type coupling		
	Ø d1 max	l1	L1	Ø d2 max	l2	L2	Ø d3 max	l3	L3
FFX-1	42	67	67	60	75	130	..	..	..
FFX-3	80	92	72	90	110	170	..	..	..
FFX-4	90	102	87	100	120	195	..	..	..
FFX-5	..	..	..	125	150	230	..	..	..
FP-1	..	..	..	..	..	..	100	110	120
FP-2	..	..	..	..	..	..	140	155	167

Type WF HF & CBSF HF are radially displaceable fluid couplings with metallic disc flexible coupling on both input and output ends. These metallic disc couplings do not require any lubrication and require least maintenance. The weight of fluid coupling is shared by motor and driven machine shaft thus reducing weight reaction on gear box shafts which are of small diameters in modern designs.

TYPE : WF HF, CBSF HF



TYPE : WF HFD, CBSF HFD



Model	ØA	B	Ød1 Max.	l 1	Ød4 Max.	l 4	Flexible coupling model
WFHF -4, CBSF HF-4	380	278	55	70	55	70	FXC-II
WF HFD -4, CBSF HFD-4	380	364	55	70	55	70	FXC-II
WFHF -360, CBSF HF-6	436	350	75	95	75	95	FXC-III A
WF HFD -360, CBSF HFD-6	436	446	75	95	75	95	FXC-III A
WFHF -5, CBSF HF-7	470	380	75	95	75	95	FXC-III A
WF HFD -5, CBSF HFD-7	470	500	75	95	75	95	FXC-III A
WFHF -6, CBSF HF-8	508	405	90	95	80	95	FXC-III
WF HFD -6, CBSF HFD-8	508	522	90	95	80	95	FXC-III
WFHF -7, CBSF HF-9	570	421	90	110	90	110	FXC-III
WF HFD -7, CBSF HFD-9	570	541	90	110	90	110	FXC-III
WFHF -8, CBSF HF-10	620	501	110	125	110	125	FXC-IV A
WF HFD -8, CBSF HFD-10	620	650	110	125	110	125	FXC-IV A
WFHF -9, CBSF HF-11	730	543	110	125	110	125	FXC-IV A
WF HFD -9, CBSF HFD-11	730	695	110	125	110	125	FXC-IV A
WFHF -10, CBSF HF-12	776	629	120	125	120	125	FXC-IV
WF HFD -10, CBSF HFD-12	776	814	120	125	120	125	FXC-IV