

## 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. Starting torque adjustable in range of 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 & CBSF DX and without delayfil type CBSF. Also available in Radially Displaceable execution CBSF-HF 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 starting torque transmitting capacity is adjustable between 180% to 270 % for CBSF and 150 to 270% CBSF DF delayfil couplings & 130% to 270% for CBSF DX Couplings with extended delayfil chamber.



**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 & WFDX with extended delayfil chamber 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 & 130% to 270% of WFDX couplings.



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.

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

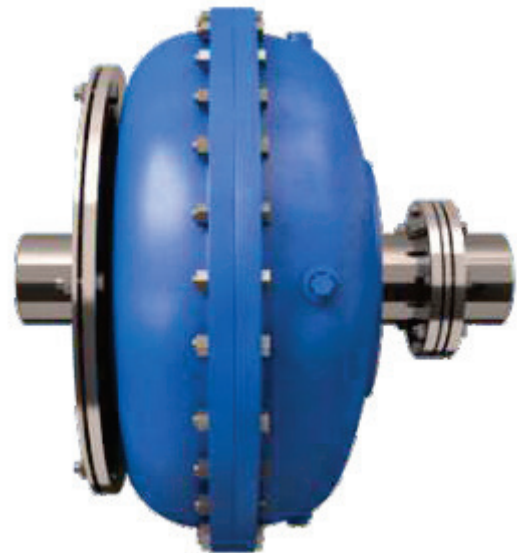
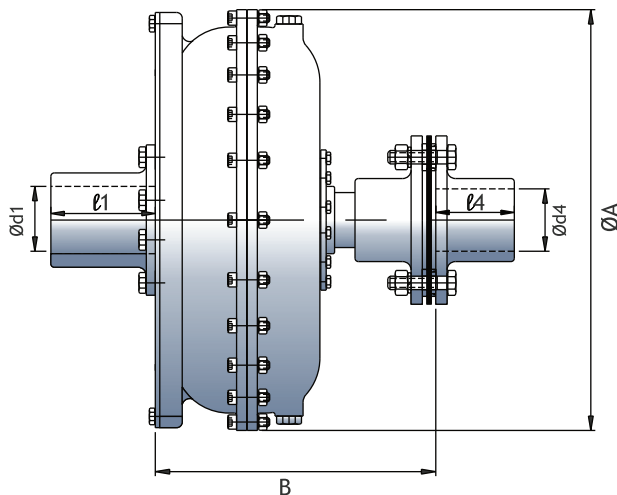
- Virtually no load start and run up of motor and utilization of motor peak torque for load acceleration.
- Smooth and controlled acceleration of driven machine.
- Quick decay of motor starting current kick.
- Adjustable starting characteristics.
- Dampening of shock loads, torsional fluctuations and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

## SF, CBSF & WF

Rating Table

WF/WFHF and their D & DX Execution	SF/CBSF/ CBSFHF & their D & DX Execution							
Model	Model	600	750	900	1000	1200	1500	1800
WF 4	4	1	1.8	3	4	8	15	22
WF 360	6	2.6	5	9	12	20	40	60
WF 5	7	4	7.5	13	18	31	60	80
WF 6	8	5.6	11	19	26	45	80	114
WF 7	9	10	19	33	45	78	152	197
WF 8	10	14.4	28	48	66	115	224	290
WF 566	566	20	40	68	93	161	315	375
WF 9	11*	33	64	111	152	262	373	500

\* Models not offered in type SF



Technical Specification and Dimension Table for coupling type SF

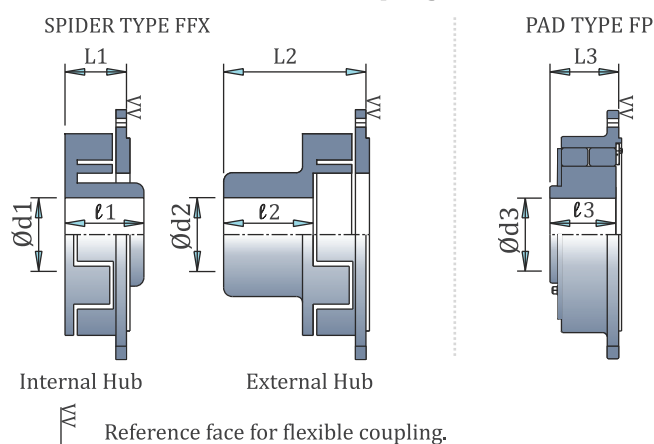
Fluid Coupling Model SF	ØA	B	Ød 1 MAX	l1	Ød 4 MAX	l4	Flex. Coupling Model FXC	Dry Wt. Kg	Max filling liters
4	375	250	50	80	55	70	II	55	4.8
6	418	267	75	110	90	95	IIIA	82	7.8
7	470	300	75	110	90	95	III	98	10.0
8	508	310	75	110	90	95	III	106	13.5
9	570	330	110	140	110	110	III	190	18.75
10	620	345	110	140	110	125	IV	205	27

**Technical Specification and Dimension Table For  
CBSF, CBSF-DF, CBSF-DX**

Model	ØA	B	Ø d4 max	L4	Threads 'M' BSW	Flexible Coupling Model
WF-4, CBSF-4	375	154	42	74	1"	FFX-1
WF-360, CBSF-6	418	220	55	112	1"	FFX-3
WFDF-360, CBSFDF-6	418	316	55	112	1"	FFX-3
WF-5, CBSF-7	470	250	80	135	1½"	FFX-3
WFDF-5, CBSFDF-7	470	320	80	135	1½"	FFX-3
WF-6, CBSF-8	512	253	85	140	1½"	FFX-4
WFDF-6, CBSFDF-8	512	328	85	140	1½"	FFX-4
WFDF-6, CBSFDF-8	512	373	85	140	1½"	FFX-4
WF-7	570	277	95	155	1½"	FFX-4
WFDF-7	570	355	95	155	1½"	FFX-4
WFDF-7	570	377	95	155	1½"	FFX-4
CBSF-9	570	237	95	155	1½"	FFX-4
CBSFDF-9	570	315	95	155	1½"	FFX-4
CBSFDF-9	570	355	95	155	1½"	FFX-4
WF-8, CBSF-10	620	291	95	170	1½"	FP-1
WFDF-8, CBSFDF-10	620	370	95	170	1½"	FP-1
WFDF-8, CBSFDF-10	620	451	95	170	1½"	FP-1
WF-566, CBSF-566	644	313	110	172	1½"	FP-1
WFDF-566, CBSFDF-566	644	392	110	172	1½"	FP-1
WFDF-566, CBSFDF-566	644	473	110	172	1½"	FP-1
WF-9, CBSF-11	715	367	110	200	Ø50-8P *	FP-2A
WFDF-9, CBSFDF-11	715	425	110	200	Ø50-8P *	FP-2A
WFDF-9, CBSFDF-11	715	508	110	200	Ø50-8P *	FP-2A

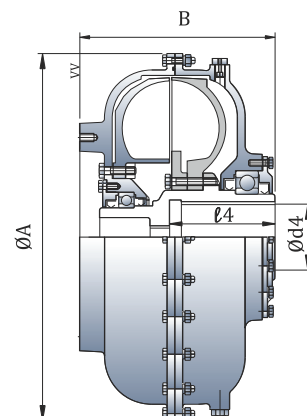
\* Square Thread

**Flexible Coupling**

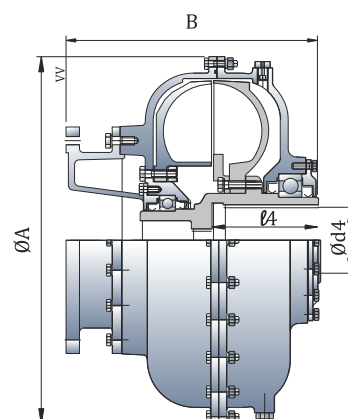


Flexible Coupling Model	Internal Hub			External Hub			Pad type coupling		
	Ø d1 max	l1	L1	Ø d2 max	l2	L2	Ø d3 max	l3	L3
FFX-1	42	67	67	60	75	130	--	--	--
FFX-3	80	92	72	90	110	170	--	--	--
FFX-4	90	102	87	100	120	195	--	--	--
FP-1	--	--	--	--	--	--	100	110	120
FP-2	--	--	--	--	--	--	120	140	151

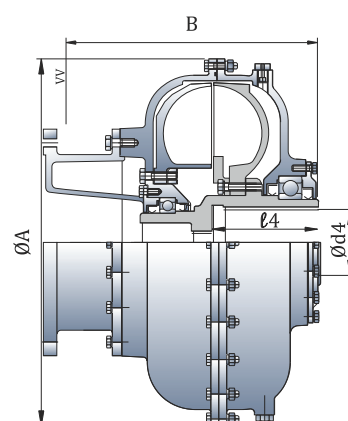
TYPE:- WF, CBSF



TYPE:-WFDF, CBSF DF



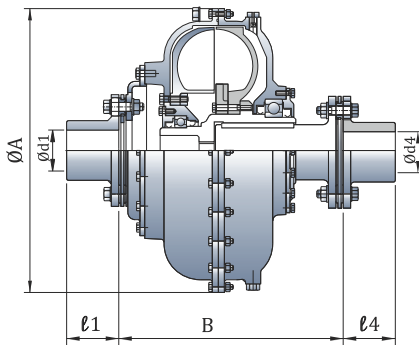
TYPE:-WFDFX, CBSF DX



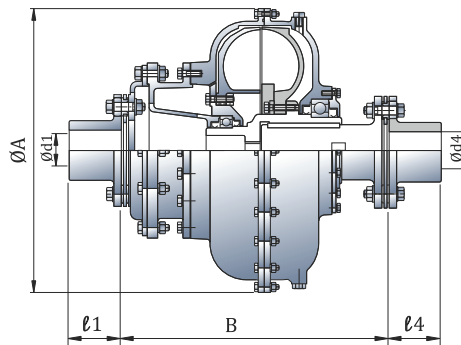
## SF, CBSF & WF

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.

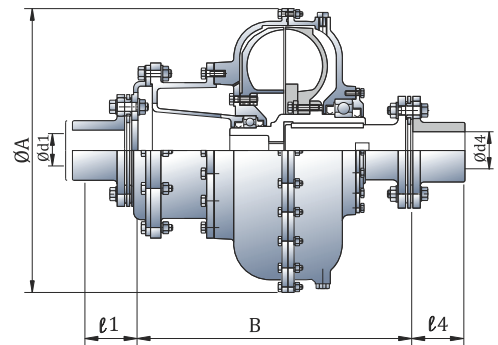
TYPE : WF HF, CBSF HF



TYPE : WF HFD, CBSF HFD



TYPE : WF HFDX, CBSF HFDX



Technical Specification and Dimension Table For WFHF & CBSFHF

Fluid Coupling Model	Ø A	B	Ø d 1 max	l 1	Ø d 4 max	l 4	Flex Coupling Model FXC
WFHF-4, CBSFHF-4	380	278	55	70	55	70	FXC-II
WFHFD-4, CBSFHFD-4	380	364	55	70	55	70	FXC-II
WFHF-360, CBSFHF-6	436	350	75	95	75	95	FXC-IIIA
WFHFD-360, CBSFHFD-6	436	446	75	95	75	95	FXC-IIIA
WFHF-5, CBSFHF-7	470	380	75	95	75	95	FXC-IIIA
WFHFD-5, CBSFHFD-7	470	500	75	95	75	95	FXC-IIIA
WFHF-6, CBSFHF-8	512	384	90	110	90	110	FXC-III
WFHFD-6, CBSFHFD-8	512	458	90	110	90	110	FXC-III
WFHFDX-6, CBSFHFDX-8	512	504	90	110	90	110	FXC-III
WFHF-7, CBSFHF-9	570	402	90	110	90	110	FXC-III
WFHFD-7, CBSFHFD-9	570	480	90	110	90	110	FXC-III
WFHFDX-7, CBSFHFDX-9	570	502	90	110	90	110	FXC-III
WFHF-8, CBSFHF-10	620	470	110	125	110	125	FXC-IVA
WFHFD-8, CBSFHFD-10	620	550	110	125	110	125	FXC-IVA
WFHFDX-8, CBSFHFDX-10	620	630	110	125	110	125	FXC-IVA
WFHF-566, CBSFHF-566	644	500	110	125	110	125	FXC-IVA
WFHFD-566, CBSFHFD-566	644	578	110	125	110	125	FXC-IVA
WFHFDX-566, CBSFHFDX-566	644	659	110	125	110	125	FXC-IVA
WFHF-9, CBSF HF-11	715	528	110	125	110	125	FXC-IVA
WFHFD-9, CBSF HFD-11	715	586	110	125	110	125	FXC-IVA
WFHFDX-9, CBSF HFDX-11	715	669	110	125	110	125	FXC-IVA