



AURO PUMPS PVT. LTD.

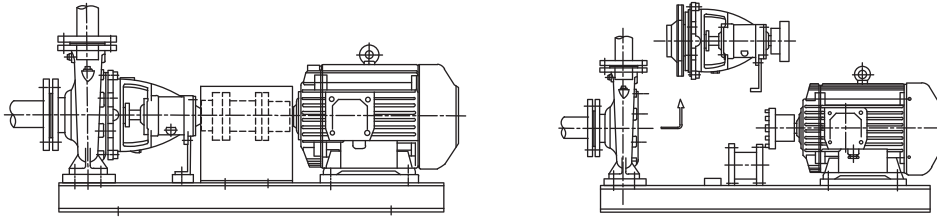
ESTD. 1984

Technical support from POMPE VERGANI S.p.A Italy

AC / ACC

Horizontal End Suction Pumps

AURO'S ACC/AC SERIES HORIZONTAL END SUCTION PUMPS



ACC BACK-PULL-OUT PUMP WITH SPACER TYPE COUPLING TO FACILITAE MAINTENANCE WITHOUT DISTURBING THE SUCTION AND DISCHARGE PIPING

ACC / AC HORIZONTAL CHEMICAL PROCESS PUMPS

DESIGN

- ACC/AC series chemical process pumps are designed in accordance with DIN 24256, DIN 24255 and ISO 2858 and generally conforms to ISO 5199.
- ACC/AC pumps design includes many features of API610 standard.
- These pumps are horizontal, single volute with back pull-out arrangement.
- The volute casing is foot/centerline mounted with horizontal end suction and radially upward discharge nozzle.
- The casing can be fitted with heating/cooling jackets and replaceable wear rings.
- The casing cover/stuffing box incorporates the shaft sealing arrangement which can be gland packing or single/double mechanical seal. Auxiliary piping as per API610 can be accommodated
- The impeller is radial, closed type with double curvature vanes for higher performance.
- The hydraulic thrust balancing is achieved by balancing holes. Special executions with 3-vaned, 4-vaned, semi open and open impellers are possible.

APPLICATIONS

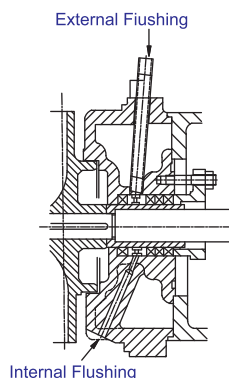
- The ACC/AC series chemical process pumps are suitable for handling majority of inorganic, organic, chemically aggressive or neutral liquids.
- With a very wide operative temperature and pressure range these pumps can handle almost all liquids with varying and extreme properties.
- Some of the user industries are Refineries, Petrochemical complexes, Fertilizer plants, Chemical plants & similar industries.
- Steel plants, Thermal & Nuclear Power plants, metal refining plants & smelters.
- Processing plants for Sugar, food products, fisheries, edible oil and pulp & paper industry Pharmaceutical & drugs manufacturers, solvent manufacturers, API products and other related industries HVAC systems, Cooling water systems, firefighting systems, Sewage and effluent treatment plants.
- Water industries like descaling plants, water supply, irrigation schemes, etc.

OPERATING RANGE

- Capacity : upto 750 m³/hr Operating pressure : upto 26 bar
- Head : upto 160 meters Operating temperature : -35°C to 350°C
- Operating frequencies : 50Hz & 60Hz (2, 4, 6 & 8 pole)

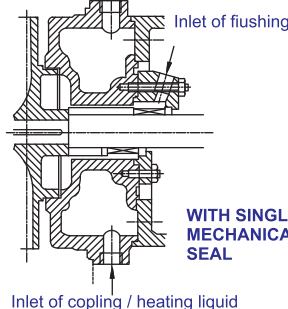
SHAFT SEALING EXECUTIONS

WITH GLAND PACKING

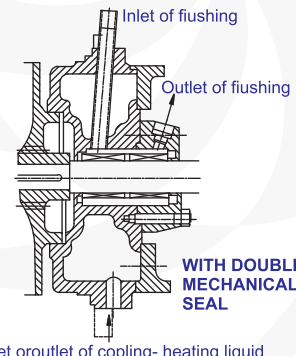


WITH MECHANICAL SEAL

Outlet of coupling / heating liquid



WITH SINGLE MECHANICAL SEAL



WITH DOUBLE MECHANICAL SEAL

*AC – for clear water application pumps, ACC – for all non-water application pumps.

OTHER VARIANTS OF AURO'S ACC/AC SERIES HORIZONTAL END SUCTION PUMPS

ACC/AC SERIES INVESTMENT CASTING CHEMICAL PROCESS PUMPS

Auro's ACC/AC investment casting chemical process pumps are manufactured using the lost wax method or investment casting method of manufacturing Stainless steel and higher grade metal castings to achieve better hydraulic efficiency, superior surface finish and high aesthetic appeal. The specialized casting process created a highly smooth surface in parts like impellers and volute casing which in turn increases the hydraulic efficiency of the pumps

- As per DIN 24256, ISO 2858 & ISO 5199
- Capacity : upto 30 m³/hr
- Head : upto 55 meters
- Operating temperature range : upto 200°C
- Operating frequency : 50Hz & 60Hz
- Impeller options : closed, semi open & open impellers available
- Shaft sealing options : gland packing, single mechanical seal, double mechanical seal in tandem & back-to-back arrangement, cartridge type mechanical seal
- Materials of construction : CF8M, CF8, CF3M, CF3, ALLOY-20, HASTELLOY-B/C, CA6NM, CD4MCu and other higher grade steel & nickel alloys



ACC/AC PULP & PAPER INDUSTRY PUMPS



Auro's ACC/AC pulp & paper industry pumps are a variant of the regular ACC/AC series pumps designed to handle liquids with up to 6% consistency and other chemicals.

- Capacity : 750 m³/hour
- Head : 160 meters
- Temperature range : -30°C to 300°C
- Operating frequency : 50Hz & 60Hz
- Impeller options: closed, semi open and open type
- Shaft sealing options: Gland packing, single & double mechanical seal
- Materials of construction : CI, WCB/CS, CF8M, CF8, CF3M, CF3, ALLOY-20, HASTELLOY-B/C, CA6NM, CD4MCu and other higher grade steel & nickel alloys

ACCM/ACM MONOBLOCK PROCESS PUMPS

Auro's ACCM/ACM monoblock pumps are derived from our ACC/AC series chemical process pumps. These are closed coupled pumps installed where there is a space constraint and cannot install the normal ACC/AC series pumps. The volute casing comes with integrally cast feet and is coupled with a flange mounted motor fitted onto a corresponding adaptor

- Capacity : upto 180 m³/hr
- Head : upto 90 meters
- Operating temperature range : -20°C to 140°C
- Operating frequency : 50Hz & 60Hz
- Impeller options : closed, semi open & open impellers available
- Shaft sealing options : gland packing, single mechanical seal, double mechanical seal in tandem & back-to-back arrangement, cartridge type mechanical seal
- Materials of construction : CF8M, CF8, CF3M, CF3, ALLOY-20, HASTELLOY-B/C, CA6NM, CD4MCu and other higher grade steel & nickel alloys



ACC/AC JACKETED HORIZONTAL PUMPS

Auro's jacketed horizontal pumps are specially designed to handle liquids with low solidification/crystallization temperature like Molten Sulphur, Coal tar, Bitumen and other naptha products. These pumps are provided with an external jacket for steam/hot media circulation which prevents the liquid inside the pump from solidifying or crystalizing.

- Capacity : 750 m³/hour
- Head : 160 meters
- Temperature range : -30°C to 300°C
- Operating frequency : 50Hz & 60Hz
- Impeller options: closed, semi open and open type
- Shaft sealing options: Gland packing, single & double mechanical seal
- Materials of construction : CI, WCB/CS, CF8M, CF8, CF3M, CF3, ALLOY-20, HASTELLOY-B/C, CA6NM, CD4MCu and other higher grade steel & nickel alloys



ACC-RL/AC-RL HORIZONTAL RUBBER LINED PUMPS



Auro's horizontal rubber lined pumps are used for pumping corrosive, erosive and abrasive liquids which cannot otherwise be handled by regular metallic pumps and are designed for heavy duty pumping applications. Different grades of rubber lining are available depending upon the application.

- Capacity : 750 m³/hour
- Head : 160 meters
- Temperature range : 0°C to 150°C
- Operating frequency : 50Hz & 60Hz
- Impeller options: open type
- Shaft sealing options: Gland packing, single & double mechanical seal
- Materials of construction : CI/WCB/CS with interior rubber lining

ACC-VI /AC-VI VERTICAL INLINE PUMPS

Auro's ACC-VI/AC-VI vertical inline pumps are used for marine, process and chemical industry applications. These are close-coupled pumps, i.e. the pump and motor assembly are separate.

The suction and discharge are inline along the same axis.

- Capacity : 350 m³/hour
- Head : 150 meters
- Temperature range : 0°C to 150°C
- Operating frequency : 50Hz & 60Hz
- Impeller options: closed, semi open and open type
- Shaft sealing options: Gland packing, single & double mechanical seal
- Materials of construction : CI, WCB/CS, CF8M, CF8, CF3M, CF3, ALLOY-20, HASTELLOY-B/C, CA6NM, CD4MCu and other higher grade steel & nickel alloys



FAMILY CURVES

1450 RPM 50Hz

BEARING BRACKETS : T9A, T9, T10, T10A, T11, T13

® MODEL AVAILABLE IN ACG INVESTMENT CASTING PUMP AS WELL
 ® MODEL AVAILABLE IN ACG INVERTED PUMP AS WELL
 ® MODEL AVAILABLE IN ACG VERTICAL INLINE PUMPS AS WELL

2900 RPM 50Hz

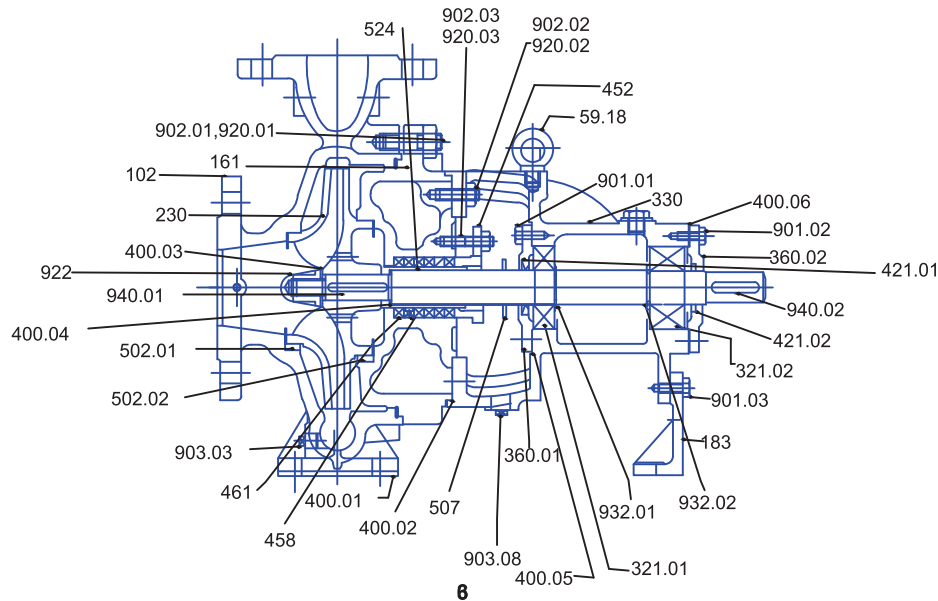
1800 RPM 60Hz

® MODEL AVAILABLE IN ACG RUBBER LINED PUMPS AS WELL
 ® MODEL AVAILABLE IN ACG VERTICAL INLINE PUMPS AS WELL
 ® ALL MODELS AVAILABLE IN BALANCE ACG/AC VARIANTS.

3600 RPM 60Hz

AURO'S ACC/AC SERIES HORIZONTAL END SUCTION PUMPS

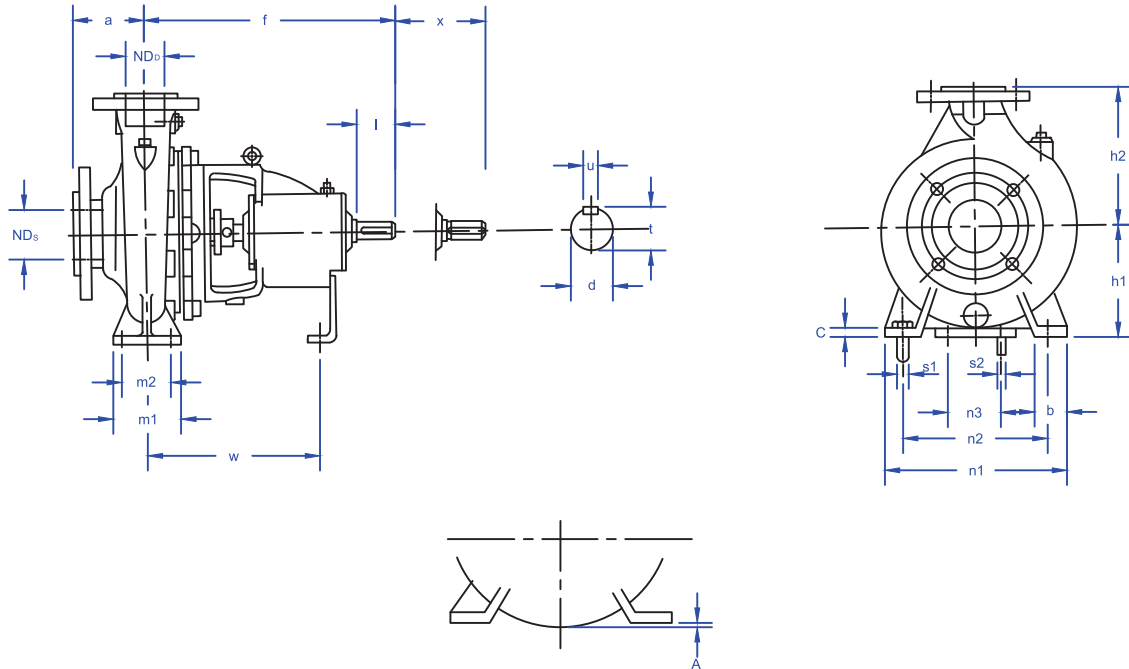
GENERAL CROSS SECTIONAL DRAWING (NORMAL BEARING BRACKET)



Note: Upper half Mechanical Seal with Normal Bearing Bracket.
Lower half Gland Packing with Heavy Bearing Bracket

No.	No. REQD. PER PUMP	PART NAME	MATERIAL
102	1	VOLUTE CASING	CI SGI CS CF-8 CF-8M A-20 HAST-B/C
161	1	CASING COVER	CI SGI CS CF-8 CF-8M A-20 HAST-B/C
183	1	SUPPORT FOOT	M.S.
201	1	SHAFT	EN-8 SS-316
230	1	IMPELER	CI SGI CS CF-8 CF-8M A-20 HAST-B/C
220.1/02	1	BEARING-ANGULAR CONACT	
321.01	1	BEARING-DOUBLE ROE ANGULAR CONACT	
321.02	1	BEARING-DEEP GTOVE	STEEL
322	1	BEARING-CYLINDRICAL ROLLER	STEEL
330	1	BEARING-BRACKET	CI
360.01/02	2	BEARING-BRACKET COVER	CI
400.01	1	GASKET-CASING & ST. BOX	SI20 ST39 ST60 PTFE
400.02	1	GASKET-ST. BOX & BTG. BKT.	SI20 ST39 ST60 PTFE
400.03	1	GASKET-IMPELLER NUT	PTFE/CAF-40
400.04	1	GASKET-SHAFT SLEEVE	PTFE/CAF-40
400.05/06	2	GASKET-BRG. COVER	CAF-40
421.01/02	2	OIL SEAL	BUNA RUBBER
452	1	GLAND	CI CF-8M A-20 HAST-B/C
458	1	LANTERN RING	CI CF-8M A-20 HAST-B/C
461	4 to 6	GLAND PACKING RING	TEFLON IMPREGNATED ASBESTOS
502.01	1	WEAR RING-CASING	CI CF-8M A-20 HAST-B/C
502.02	1	WEAR RING-ST.BOX	CI CF-8M A-20 HAST-B/C
507	1	DEFLECTOR	BUNA RUBBER
524	1	SHAFT SLEEVE	SS 316 A-20 HAST-B/C
901.01/901.02	4/4	HEX.BOLT-BRG.COVER	STEEL
901.03	2	HEX.BOLT-FOOT SUPPORT	STEEL
902.01/920.01	8 to 20	STU & NUT-CASING & ST.BOX	EN 8 SS304
902.02/920.02	4 to 20	STU & NUT-ST.BOX & BRG. BKT.	STEEL
902.03/920.03	2	STU & NUT-GLAND	SS 304
903.03	1	PLUG CASING DRAIN	STEEL SS304 A-20 HAST-B/C
903.05/06	2	PLUG JACKETED ST.BOX	STEEL
903.07	1	PLUG-OIL DRAN	STEEL
922	1	PLUG-LEAKAGE DRAN	STEEL SS304
922	1	IMPELLER NUT	CI SS304 A-20 HAST-B/C
932.01/02	2	CIRCLIP	STEEL
940.01	1	KEY-IMPELLER	EN 8 SS316

AURO'S ACC/AC SERIES HORIZONTAL END SUCTION PUMPS



OVERALL DIMENSIONS TYPE

TYPE	PUMP					SUPPORT FOOT										SHAFT END				CONNECTIONS					
NDS X NDD - NDi	A	F	H1	H2	X	B	M1	M2	N1	N2	N3	W	C	S1	S2	D	L	U	T	D	E	G	P	R	Z
25 X 25 - 160	80	320	120	140	120	40	40	-	200	170	110	220	11	M12	M12	24	50	8	27	-	1/4"	3/8"	1/4"	-	3/8"
40 X 25 - 160	80	320	120	140	120	40	40	-	200	170	110	220	11	M12	M12	24	50	8	27	-	1/4"	3/8"	1/4"	-	3/8"
40 X 25 - 200	80	320	140	165	120	40	50	-	200	190	110	220	12	M12	M12	24	50	8	27	-	1/4"	3/8"	1/4"	-	3/8"
50 X 32 - 125	80	320	112	140	120	50	50	-	190	160	110	220	12	M12	M12	24	50	8	27	-	1/4"	3/8"	1/4"	-	3/8"
50 X 32 - 125	80	360	132	160	140	50	100	70	240	190	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
50 X 32 - 200	80	360	160	180	140	50	100	70	240	190	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
50 X 32 - 250	100	470	180	225	140	65	125	95	320	250	110	340	15	M12	M12	32	80	10	35	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 40 - 125	80	320	112	140	120	50	50	-	190	160	110	220	12	M12	M12	24	50	8	27	-	1/4"	3/8"	1/4"	-	3/8"
65 X 40 - 160	80	360	132	160	140	50	100	70	240	190	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 40 - 200	100	360	160	180	140	50	100	70	265	212	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 40 - 250	100	470	180	225	140	65	125	95	320	250	110	340	17	M12	M12	32	80	10	35	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 40 - 315	125	470	225	280	100	65	125	95	345	280	110	340	17	M16	M12	42	80	12	45	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 50 - 160	100	360	160	180	140	50	100	70	265	212	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 50 - 160	100	360	160	200	140	50	100	70	265	212	110	260	15	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
65 X 50 - 250	100	470	180	225	140	65	125	95	320	250	110	340	17	M12	M12	32	80	10	35	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
80 X 65 - 160	100	360	160	200	140	65	125	95	250	212	110	260	17	M12	M12	24	50	8	27	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
80 X 65 - 200	100	470	180	225	140	65	125	95	320	255	110	340	17	M12	M12	32	80	10	32	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
80 X 65 - 250	100	470	200	250	140	80	160	120	360	280	110	340	18	M16	M12	42	80	12	45	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
80 X 50 - 315	125	470	225	280	140	65	125	95	345	280	110	340	18	M16	M12	42	80	12	45	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
100 X 80 - 160	125	470	180	225	140	65	125	95	320	250	110	340	17	M12	M12	32	80	10	35	1/2"	3/8"	3/8"	1/4"	3/8"	3/8"
100 X 80 - 200	125	470	180	250	140	65	125	95	345	280	110	340	17	M12	M12	42	80	12	45	1/2"	3/8"	3/8"	1/4"	3/8"	3/8"
100 X 80 - 250	125	470	200	280	140	80	160	120	400	315	110	340	18	M16	M12	42	80	12	45	1/2"	3/8"	3/8"	1/4"	3/8"	3/8"
100 X 65 - 315	125	470	225	280	140	80	160	120	400	315	110	340	18	M16	M12	42	80	12	45	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
100 X 80 - 400	125	670	280	355	140	100	160	120	435	355	110	500	20	M20	M12	48	110	14	52	1/2"	1/4"	3/8"	1/4"	3/8"	3/8"
125 X 100 - 200	125	470	200	280	140	80	160	120	360	250	110	340	18	M16	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	3/8"	3/8"
125 X 100 - 250	140	470	225	280	140	80	160	120	400	315	110	340	18	M16	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	3/8"	3/8"
125 X 80 - 315	125	470	250	315	140	80	160	120	400	315	110	340	18	M16	M12	42	80	12	45	1/2"	3/8"	3/8"	1/4"	3/8"	3/8"
125 X 100 - 315	140	470	250	315	140	80	160	120	400	315	110	340	18	M20	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	3/8"	3/8"
125 X 100 - 400	140	670	280	355	140	100	200	150	500	400	110	500	20	M20	M12	48	110	14	52	1/2"	1/2"	1/4"	1/4"	3/8"	1/2"
150 X 125 - 250	140	470	250	355	140	80	160	120	400	315	110	340	18	M16	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	3/8"	3/8"
150 X 125 - 315	140	470	280	355	140	80	200	150	500	400	110	340	20	M20	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	3/8"	3/8"
150 X 125 - 400	140	470	315	400	140	100	200	150	550	400	110	500	20	M20	M12	48	110	14	52	1/2"	1/2"	1/4"	1/4"	3/8"	1/2"
200 X 150 - 250	160	470	280	375	180	100	200	150	500	400	110	340	20	M20	M12	42	80	12	45	1/2"	1/2"	1/4"	1/4"	1/2"	3/8"
200 X 150 - 315	160	670	315	400	180	100	200	150	550	450	110	500	20	M20	M12	48	110	14	52	-	1/2"	1/4"	1/4"	1/2"	1/2"
200 X 150 - 400	160	670	315	450	180	100	200	150	550	450	110	500	20	M20	M12	48	110	14	52	-	1/2"	1/4"	1/4"	1/2"	1/2"
250 X 200 - 315	200	670	355	450	180	100	200	150	550	450	110	500	20	M20	M12	48	110	14	52	-	1/2"	1/4"	1/4"	1/2"	1/2"
250 X 200 - 400	200	670	355	500	180	100	200	150	550	450	110	500	20	M20	M12	48	110	14	52	-	1/2"	1/4"	1/4"	1/2"	1/2"

CLIENTS



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