

TANAKA

TORCH & NOZZLE



Cutting Torch

No back series Adopted the structure it is a high resistance to back fires

Medium Cutting Torch / Medium Cutting Torch U45 / A Type Cutting Torch



Medium Cutting Torch Z



Medium Cutting Torch U45



A Type Cutting Torch Z

	Gas	Model	Nozzle		Cutting thickness [mm]	Working Gas Pressure [MPa]		Consumption [L/h]			Length [mm]	Weight [g]	Connections
			Series	Number		Oxygen	Fuel Gas	Cutting Oxygen	Heating Oxygen	Fuel Gas			
Medium Cutting Torch Z	Acetylene	101Z	1120N	1	3 ~ 10	0.3	0.03~0.05	700	220	200	433	645	For Oxygen JIS Number.2 Hose connection
				2	10 ~ 20			1,200	250	230			
				3	20 ~ 30			2,000	330	300			
	Propane	501Z	1151N	1	3 ~ 10	0.3	0.02	700	900	240	433	645	
				2	10 ~ 20			1,200	1,050	280			
				3	20 ~ 30			2,000	1,230	330			
Ethylene	801Z	1180N	1	3 ~ 10	0.3	0.02	700	500	250	433	645		
			2	10 ~ 20			1,200	600	300				
			3	20 ~ 30			2,000	700	350				
Medium Cutting Torch U45	Acetylene	101U	1120N	1	3 ~ 10	0.3	0.03~0.05	700	220	200	485	605	For Fuel Gas JIS Number.3 Hose connection
				2	10 ~ 20			1,200	250	230			
				3	20 ~ 30			2,000	330	300			
	Propane	501U	1151N	1	3 ~ 10	0.3	0.02	700	900	240	485	605	
				2	10 ~ 20			1,200	1,050	280			
				3	20 ~ 30			2,000	1,230	330			
A Type Cutting Torch Z	Acetylene	112Z	1220N	1	3 ~ 15	0.3	0.03~0.05	1,600	370	340	517	790	For Fuel Gas JIS Number.3 Hose connection
				2	15 ~ 40			2,600	480	440			
				3	40 ~ 80			4,800	590	540			
	Propane	512Z	1251N	1	3 ~ 15	0.3	0.02	1,600	1,230	330	517	790	
				2	15 ~ 40			2,600	1,420	380			
				3	40 ~ 80			4,800	1,680	450			
	Ethylene	812Z	1280N	1	3 ~ 15	0.3	0.02	1,600	700	350	517	790	
				2	15 ~ 40			2,600	800	400			
				3	40 ~ 80			4,800	900	450			

Gouging A Type Cutting Torch can conn a gouging nozzle

A Type Cutting Torch Z

	Gas	Model	Nozzle		Welding		Working Gas Pressure [MPa]		Consumption [m ³ /h]			Length [mm]	Weight [g]	Connections	
			Series	Number	Width	Thickness	Oxygen	Fuel	Cutting Oxygen	Heating Oxygen	Fuel Gas				
A Type Cutting Torch Z	Acetylene	112Z	1520L	1	5 ~ 9	3 ~ 6	0.3 ~ 0.5	0.01~0.05	2.4 ~ 4.4	0.38 ~ 0.93	0.35 ~ 0.85	447	645	For Oxygen JIS Number.2 Hose connection	
				2	7 ~ 10	3 ~ 6	0.3 ~ 0.5		2.8 ~ 5.1	0.46 ~ 1.21	0.42 ~ 1.10				
				3	9 ~ 13	5 ~ 10	0.4 ~ 0.7		3.0 ~ 5.5	0.49 ~ 1.21	0.45 ~ 1.10				
				4	9 ~ 13	5 ~ 10	0.4 ~ 0.7		3.2 ~ 5.7	0.51 ~ 1.32	0.47 ~ 1.20				
				5	10 ~ 15	5 ~ 12	0.4 ~ 0.7		3.2 ~ 6.0	0.51 ~ 1.32	0.47 ~ 1.20				
				6	10 ~ 15	5 ~ 12	0.4 ~ 0.7		3.4 ~ 6.5	0.55 ~ 1.43	0.50 ~ 1.30				
	Propane	512Z	1550L	1	5 ~ 9	3 ~ 6	0.3 ~ 0.5		2.4 ~ 4.4	3.2	0.85	541	790		For Fuel Gas JIS Number.3 Hose connection
				2	7 ~ 10	3 ~ 6	0.3 ~ 0.5		2.8 ~ 5.1	3.2	0.85				
				3	9 ~ 13	5 ~ 10	0.4 ~ 0.7		3.0 ~ 5.5	5.7	1.5				
				4	9 ~ 13	5 ~ 10	0.4 ~ 0.7		3.2 ~ 5.7	5.7	1.5				
				5	10 ~ 15	5 ~ 12	0.4 ~ 0.7		3.2 ~ 6.0	6.0	1.6				
				6	10 ~ 15	5 ~ 12	0.4 ~ 0.7		3.4 ~ 6.5	6.0	1.6				

No back series

Medium Cutting Torch Z Straight Type / A Type Cutting Torch Z Straight Type



Medium Cutting Torch Z Straight Type



A Type Cutting Torch Z Straight Type

	Gas	Model	Nozzle		Cutting Thickness [mm]	Working Gas Pressure		Consumption [L/h]			Length [mm]	Weight [g]	Connections			
			Series	Number		Oxygen	Acetylene	Cutting Oxygen	Heating Oxygen	Fuel Gas						
Medium Cutting Torch Z Straight Type	Acetylene	101ZA	1120N	1	3 ~ 10	0.3	0.03 ~ 0.05	700	220	200	447	645	For Oxygen JIS Number.2 Hose connection			
				2	10 ~ 20			1,200	250	230						
				3	20 ~ 30			2,000	330	300						
A Type Cutting Torch Z Straight Type		112ZA	1220N	1	3 ~ 15			1,600	370	340				541	790	For Acetylene JIS Number.3 Hose connection
				2	15 ~ 40			2,600	480	440						
				3	40 ~ 80			4,800	590	540						

These are available from thin to thick

Small Type Cutting Torch K / B Type Cutting Torch Z / C Type Cutting Torch



Small Type Cutting Torch K



B Type Cutting Torch Z



C Type Cutting Torch

	Gas	Model	Nozzle		Cutting Thickness [mm]	Working Gas Pressure [MPa]		Consumption [L/h]			Length [mm]	Weight [g]	Connections
			Series	Number		Oxygen	Fuel	Cutting Oxygen	Heating Oxygen	Fuel Gas			
Small Type Cutting Torch K	Acetylene	111K	1120N	1	3 ~ 10	0.3	0.03 ~ 0.05	700	220	200	420	660	For Oxygen JIS Number.2 Hose connection
				2	10 ~ 20			1,200	250	230			
				3	20 ~ 30			2,000	330	300			
	Propane	511K	1151N	1	3 ~ 10	0.3	0.02	700	900	240			
				2	10 ~ 20			1,200	1,050	280			
				3	20 ~ 30			2,000	1,230	330			
B Type Cutting Torch Z	Acetylene	113Z	1320N	4	60 ~ 80	0.35	0.02	7,000	600	550	546	820	For Acetylene JIS Number.3 Hose connection
				5	80 ~ 150	0.4		8,500	660	600			
				6	140 ~ 240	0.45		10,000	770	700			
	Propane	513Z	1351N	4	60 ~ 80	0.35	0.025	7,000	1,800	480			
				5	80 ~ 150	0.4		8,500	2,130	570			
				6	140 ~ 240	0.45		10,000	2,430	650			
C Type Cutting Torch	Acetylene	114C	1420	7	100 ~ 200	0.65	0.02	17,000	1,320	1,200	665	1,580	For Oxygen φ12 mm Hose connection For Acetylene JIS Number.3 Hose connection
				8	150 ~ 250	0.7		25,000	1,870	1,700			
				9	250 ~ 350	0.75		30,000	2,420	2,200			
	Propane	514C	1450	7	100 ~ 200	0.65	0.025	17,000	3,560	950			
				8	150 ~ 250	0.7		25,000	3,930	1,050			
				9	250 ~ 350	0.75		30,000	5,620	1,500			

Cutting Torch

Tough and High resistance to back fires

HC-337 Cutting Torch / HC-338S Cutting Torch



HC-337 Cutting Torch



HC-338S Cutting Torch

	Gas	Model	Nozzle		Cutting Thickness [mm]	Working Gas Pressure		Consumption [L/min]			Length [mm]	Weight [g]	Connections
			Series	Number		Oxygen	Fuel Gas	Cutting Oxygen	Heating Oxygen	Fuel Gas			
HC-337 Cutting Torch	Acetylene	337	3240G	0	~ 6	0.2 ~ 0.3	0.015	420 ~ 580	220	200	454	770	For Oxygen JIS Number.2 Hose connection For Acetylene JIS Number.3 Hose connection
				1	3 ~ 16	0.2 ~ 0.3	0.02	600 ~ 800	360	330			
				2	6 ~ 19	0.3 ~ 0.4	0.021	1,300 ~ 1,600	490	450			
				3	9 ~ 50	0.3 ~ 0.45	0.025	2,500 ~ 3,500	660	600			
	Propane	3250B	1	~ 6	0.2	0.015	500 ~ 700	1,050	280				
			2	6 ~ 12	0.2 ~ 0.3	0.02	600 ~ 800	1,100	290				
HC-338S Cutting Torch	Acetylene	338S	3040G	00	~ 6	0.15	0.02	700	400	370	525	1,040	For Oxygen JIS Number.2 Hose connection For Acetylene JIS Number.3 Hose connection
				0	6 ~ 9	0.2	0.02	1,200	400	370			
				1	9 ~ 16	0.25	0.02	2,000	400	370			
				2	16 ~ 32	0.3	0.02	3,500	400	370			
				3	32 ~ 40	0.3	0.02	4,300	480	430			
				4	40 ~ 50	0.35	0.025	6,500	550	500			
	Propane	3051	5	50 ~ 100	0.4	0.03	11,000	700	630				
			00	3 ~ 6	0.2	0.02	650	1,100	300				
			0	6 ~ 9	0.3	0.02	1,100	1,100	300				
			1	9 ~ 16	0.35	0.02	2,000	1,300	350				
			2	16 ~ 32	0.35	0.02	3,300	1,300	350				
			3	32 ~ 40	0.35	0.03	5,100	1,300	350				
			4	40 ~ 60	0.45	0.04	8,500	1,500	400				
			5	60 ~ 100	0.5	0.04	12,500	1,500	400				

Accessories

Guide Roller For Straight / Circle Cutting and Nozzle Cleaner

■ Guide Roller For Straight Cutting

For Small Type / Medium Type / A type / B Type / HC-337 / HC-338S

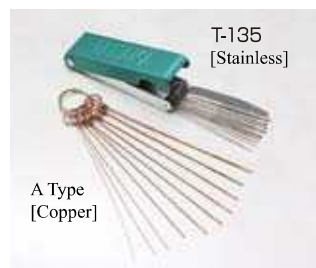


■ Guide Roller For Circle Cutting

For Small Type / Medium Type / A type / B Type / HC-337 / HC-338S



■ Nozzle Cleaner



Cutting Range

For Small Type and Medium Type : [Radius] Minimum 37mm Maximum 195mm

For A Type and B Type : [Radius] Minimum 37mm Maximum 195mm

For HC-337 and HC-338S : [Radius] Minimum 37mm Maximum 195mm

Gouging / Scarfing

Gouge fillets or defective parts

Gouging Torch Z



Gouging Torch Z

	Gas	Model	Nozzle		Gouging [mm]		Working Gas Pressure		Consumption			Length [mm]	Weight [g]	Connections
			Series	Number	Width	Depth	Oxygen	Fuel Gas	Cutting Oxygen	Heating Oxygen	Fuel Gas			
Gouging Torch Z	Acetylene	115Z	1520	1	5~9	3~6	0.3~0.5	0.01~0.05	2.4~4.4	0.38~0.93	0.35~0.85	522	800	For Oxygen JIS Number.2 Hose connection
				2	7~10	3~6	0.3~0.5		2.8~5.1	0.46~1.21	0.42~1.10			
				3	9~13	5~10	0.4~0.7		3.0~5.5	0.49~1.21	0.45~1.10			
				4	9~13	5~10	0.4~0.7		3.2~5.7	0.51~1.32	0.47~1.20			
				5	10~15	5~12	0.4~0.7		3.2~6.0	0.51~1.32	0.47~1.20			
				6	10~15	5~12	0.4~0.7		3.4~6.5	0.55~1.43	0.50~1.30			
				7	11~17	5~12	0.5~0.8		3.5~7.2	0.58~1.54	0.53~1.4			
	Propane	515Z	1550	1	5~9	3~6	0.3~0.5	0.01~0.05	2.4~4.4	3.2	0.85			
				2	7~10	3~6	0.3~0.5		2.8~5.1	3.2	0.85			
				3	9~13	5~10	0.4~0.7		3.0~5.5	5.7	1.50			
				4	9~13	5~10	0.4~0.7		3.2~5.7	5.7	1.50			
				5	10~15	5~12	0.4~0.7		3.2~6.0	6.0	1.6			
				6	10~15	5~12	0.4~0.7		3.4~6.5	6.0	1.6			
				7	11~17	5~12	0.5~0.8		3.5~7.2	6.8	1.8			

Scarfing Torch For scarfing

Mighty C65 Scarfing Torch / Mighty 1000E Scarfing Torch



Mighty C65 Scarfing Torch



Mighty 1000E Scarfing Torch

	Gas	Model	Nozzle		Scarfing [mm]		Working Gas Pressure [MPa]		Consumption [m3/h]			Length [mm]	Weight [g]	Connections
			Series	Number	Width	Depth	Oxygen	Fuel Gas	Cutting Oxygen	Heating Oxygen	Fuel Gas			
Mighty C65 Scarfing Torch	Acetylene	151	5140	6	23~25	1~2	0.6~0.8	0.06	16~24	0.93	0.84	1,304	1,980	For Oxygen JIS Number.2 Hose connection
				8	25~28		0.6~0.8	0.06	25~38	1.23	1.12			
				10	30~35		0.6~0.8	0.07	28~42	1.54	1.40			
				12	32~37		0.7~0.9	0.07	30~45	1.85	1.68			
				14	35~40		0.8~1.0	0.08	36~54	2.16	1.96			
				6	14~17		0.6~0.8	0.06	10~15	1.88	0.50			
	Propane	5150	8	18~21	0.6~0.8	0.06	16~24	2.06	0.55					
			10	23~25	0.7	23~34	2.25	0.60						
			12	25~28	0.7	30~45	3.19	0.85						
			14	30~35	0.8	33~50	3.75	1.00						

	Gas	Model	Series	Length [mm]	Weight [g]	Connections
Mighty 1000E Scarfing Torch	Propane	15405E	5451	1,297	2,900	For Oxygen φ15×2B Hose For Fuel Gas JIS Number 3

	Working Oxygen Pressure [MPa]	Working Fuel Gas Pressure [MPa]	Width	Depth	Oxygen Consumption [m ³ /h]	Oxygen Consumption [m ³ /h]
Thin	0.8 ~ 1.0	0.04	80 ~ 110	2 ~ 3	195 ~ 210	1.4
Thick				4 ~ 5		

Welding Torch

Welding for thin to 10 mm [French Type]

Number.00 Welding Torch / Small Type Welding Torch / Medium Type Welding Torch



	Gas	Model	Tip		Depth [mm]	Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [g]	Connections				
			Series	Number		Oxygen	Fuel Gas	Oxygen	Fuel							
Number.00 Welding Torch	Acetylene	161	6120	10	Very thin	0.01 ~ 0.03	0.05 ~ 0.08	0.05 ~ 0.08	35	30	325	200	For Oxygen φ6 Hose connection For Fuel Gas φ6 Hose connection			
				15	Very thin									0.05 ~ 0.08	45	40
				25	Very thin									0.05 ~ 0.08	55	50
				50	0.5 ~ 1.0									0.05 ~ 0.08	65	60
				75	1.0 ~ 1.5									0.08 ~ 0.12	75	70
				100	1.5 ~ 2.0									0.08 ~ 0.12	100	90
Small Type Welding Torch N Small Type Welding Torch M	Acetylene	162N 162M	6220	25	~ 0.5	0.01 ~ 0.03	0.07 ~ 0.09	0.07 ~ 0.09	75	70	162N 284 162M 414	490	For Oxygen JIS Number.2 Hose connection Note: Small Type Welding Torch M JIS Number.1W R Hose connection For Fuel Gas JIS Number.3 Hose connection			
				50	0.5 ~ 1.0									0.08 ~ 0.1	100	90
				75	1.0 ~ 1.5									0.10 ~ 0.15	120	110
				100	1.5 ~ 2.0									0.1 ~ 0.2	155	140
				150	2.0 ~ 2.5									0.2 ~ 0.25	190	170
Medium Type Welding Torch P Medium Type Welding Torch K	Acetylene	163P 163K	6320M	50	1.0 ~ 2.0	0.01 ~ 0.03	0.05 ~ 0.15	0.05 ~ 0.15	155	140	163P 429 163K 417	530	For Fuel Gas JIS Number.3 Hose connection			
				75	2.0 ~ 3.0									0.1 ~ 0.2	210	190
				100	3.0 ~ 4.0									0.15 ~ 0.25	265	240
				150	3.5 ~ 5.0									0.25 ~ 0.35	330	300
				225	5.0 ~ 7.0									0.35 ~ 0.45	440	400
				350	7.0 ~ 9.0									0.45 ~ 0.55	550	500
				500	9.0 ~ 13.0									0.45 ~ 0.55	685	620

Welding and heating for up to 45mm [French Type]

Number.1 Welding Torch / Number.2 Welding Torch



	Gas	Model	Tip		Depth [mm]	Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [g]	Connections				
			Series	Number		Oxygen	Fuel Gas	Oxygen	Fuel Gas							
Number.1 Welding Torch	Acetylene	167	6720	100	5 ~ 7	0.01	0.1 ~ 0.15	0.1 ~ 0.15	350	320	518	810	For Oxygen JIS Number.2 Hose connection			
				150	7 ~ 9									0.15 ~ 0.2	460	420
				225	10 ~ 12									0.2 ~ 0.25	550	500
				350	12 ~ 14									0.2 ~ 0.25	615	560
				500	15 ~ 17									0.3 ~ 0.35	750	680
				750	17 ~ 20									0.3 ~ 0.35	880	800
				1000	20 ~ 25									0.3 ~ 0.45	1,100	1,000
Number.2 Welding Torch	Acetylene	168	6820	1000	9 ~ 13	0.01	0.1 ~ 0.15	0.1 ~ 0.15	770	700	632	840	For Acetylene JIS Number.3 Hose connection			
				1500	11 ~ 16									0.15 ~ 0.2	990	900
				2000	16 ~ 25									0.2 ~ 0.3	1,210	1,100
				2500	20 ~ 30									0.3 ~ 0.35	1,595	1,450
				3000	25 ~ 35									0.35 ~ 0.4	1,870	1,700
				3500	30 ~ 40									0.4 ~ 0.45	2,200	2,000
4000	35 ~ 45	0.45 ~ 0.5	2,640	2,400												

Weld and heat for up to 50mm [German Type]

A Type Welding Torch / B Type Welding Torch / Number.3 Welding Torch S

A Type Welding Torch, B Type Welding Torch and Number.3 Welding Torch can be used as Heating Torch when using Propane.



A Type Welding Torch [Lever Handle Type]



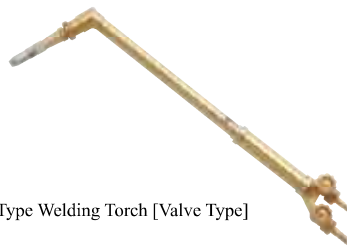
B Type Welding Torch [Lever Handle Type]



Number.3 Welding Torch S



A Type Welding Torch [Valve Type]



B Type Welding Torch [Valve Type]

	Gas	Model	Tip		Depth [mm]	Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [g]	Connections
			Series	Number		Oxygen	Fuel Gas	Oxygen	Fuel Gas			
A Type Welding Torch	Acetylene	Lever Handle Type 164	6420	1	0.5 ~ 1.0	0.1 ~ 0.15	0.01 ~ 0.03	100	90	Lever Handle Type	Lever Handle Type	For Oxygen JIS Number.2 Hose connection
				2	1.0 ~ 2.0			155	140			
				3	2.0 ~ 3.5			220	200			
				5	3.0 ~ 5.0			310	280			
				7	4.0 ~ 7.0			420	380			
				10	5.0 ~ 9.0			440	400			
	Propane	Valve Type 184	6450	7	1.0 ~ 12.0	0.15 ~ 0.35	0.01 ~ 0.02	190	50	Valve Type	Valve Type	
				8				265	70			
				10				525	140			
				12				825	220			
				14				1,350	360			
				15				1,500	400			
16	1,650	440										
B Type Welding Torch	Acetylene	Lever Handle Type 165	6520	10	5.0 ~ 9.0	0.15 ~ 0.2	0.01 ~ 0.03	565	510	Lever Handle Type	Lever Handle Type	
				13	8.0 ~ 12.0	0.15 ~ 0.2		685	620			
				16	10.0 ~ 14.0	0.2 ~ 0.3		815	740			
				20	12.0 ~ 20.0	0.2 ~ 0.3		990	900			
				25	16.0 ~ 25.0	0.3 ~ 0.35		1,320	1,200			
	Propane	Valve Type 185	6550	19	5.0 ~ 25.0	0.2 ~ 0.5	0.02 ~ 0.04	2,400	640	Valve Type	Valve Type	
				21				2,925	780			
				23				3,570	940			
				25				4,120	1,100			
				28				4,875	1,300			
Number.3 Welding Torch	Acetylene	Valve Type	6620	30	20.0 ~ 30.0	0.3 ~ 0.35	0.01 ~ 0.03	1,760	1,600	Valve Type	Valve Type	
				40	30.0 ~ 40.0	0.3 ~ 0.35		2,200	2,000			
				50	40.0 ~ 50.0	0.3 ~ 0.35		2,860	2,600			
	Propane	Valve Type 166S	6650	1	12.0 ~ 50.0	0.2 ~ 0.6	0.04	4,120	1,100			
				2				4,875	1,300			
				3				5,600	1,500			
				4				6,750	1,800			
				5				7,850	2,100			
				6				9,750	2,600			
				7				12,000	3,200			

Heating Torch

For line heating and brazing

High Power Z S / High Power MOXA S / Small Type Welding Torch LPG / Medium Welding Torch LPG / 00 Type Welding Torch LNG / Number.2 Welding Torch LPG



High Power Z S



Small Type Welding Torch NZ LPG



Medium Type Welding Torch P LPG



00 Type Welding Torch LNG



High Power MOXA S



Small Type Welding Torch M LPG



Medium Type Welding Torch K LPG



Number.2 Welding Torch LPG

	Gas	Model	Tip		Dipth [mm]	Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [mm]	Connections
			Series	Number		Oxygen	Fuel Gas	Oxygen	Fuel Gas			
High Power Z S	Propane	565ZS	6950	1500	12.0 ~ 50.0	0.2	0.04	5,600	1,500	730	900	For Oxygen JIS Number.2 Hose connection For Acetylene JIS Number.3 Hose connection
				2000		0.3		7,850	2,100			
				2500		0.4		9,750	2,600			
High Power MOXA S	Propane	564S	6951	1	5.0 ~ 50.0	0.2 ~ 0.6	0.02 ~ 0.04	2,650	710	661	750	For Oxygen JIS Number.2 Hose connection For Acetylene JIS Number.3 Hose connection
				2				4,120	1,100			
				3				5,250	1,400			
				4				6,400	1,700			
				5				7,850	2,100			
	Ethylene	6981	1	0.02 ~ 0.04				1,420	710			
			2					2,200	1,100			
			3					2,800	1,400			
			4					3,400	1,700			
			5					4,200	2,100			
Small Type Welding Torch NZ LPG Small Type Welding Torch M LPG	Propane	562NZ 562M	6250	6	0.5 ~ 2.5	0.15 ~ 0.25	0.01 ~ 0.02	110	30	562N 284 562M 414	490	For Oxygen JIS number.2 Hose connection Small Type Welding Torch M JIS number.1W
				7				190	50			
				8				265	70			
				9				375	100			
				10				525	140			
				11				675	180			
				12				825	220			
Medium Type Welding Torch P LPG Medium Type Welding Torch K LPG	Propane	563P 563K	6350M	10	1.0 ~ 12.0	0.15 ~ 0.4	0.01 ~ 0.02	525	140	563P 429 563K 417	530	For Fuel Gas JIS number.3 Hose connection
				11				700	200			
				12				805	230			
				13				1,010	270			
				14				1,310	350			
				16				1,800	480			
				18				2,250	600			
21	2,925	780										
00 Type Welding Torch LNG	LNG***	561V	6162	4	Thin ~ 2.0	0.15	0.02	35	20	325	200	For Oxygen φ6 Hose connection For Fuel Gas φ6 Hose connection
				6				55	30			
				8				70	40			
				10				105	60			
				15				140	80			
				50				215	120			
				100				320	180			
Number.2 Welding Torch LPG	Propane	568	6850	1	12.0 ~ 50.0	0.2 ~ 0.6	0.04	4,120	1,100	632	840	For Oxygen JIS Number.2 Hose connection For Acetylene JIS Number.3 Hose connection
				2				4,875	1,300			
				3				5,600	1,500			
				4				6,750	1,800			
				5				7,850	2,100			
				6				9,750	2,600			
				7				12,000	3,200			

Heating Torch

For dentist and jewelry repairer

MICRO TORCH [With three nozzle]



Notes
 •Tip number.7 is option
 •Hose length is 2,000mm

MICRO TORCH	Model	Tip		Working Gas Pressure [MPa]		Consumption [L/h]										Length [mm]	Weight [g]
		Series	Number	Oxygen	Fuel Gas	Oxygen	Propane	Oxygen	LNG	Oxygen	Hydrogen	Oxygen	Ethylene	Oxygen	Acetylene		
	191C	6150D	5	0.01~0.2	0.01	19.0	5.0	9.0	5.0	9.0	18.0	10.0	5.0	20.0	18.0		
6			30.0			8.0	15.0	8.0	14.0	28.0	16.0	8.0	31.0	28.0			
(7)			38.0			10.0	18.0	10.0	17.0	35.0	20.0	10.0	39.0	35.0			
(8)			45.0			12.0	22.0	12.0	21.0	42.0	24.0	12.0	47.0	42.0			
			10			75.0	20.0	36.0	20.0	35.0	70.0	40.0	20.0	78.0	70.0		

For heating, bending and brazing

Small Type Heating Torch LPG / Medium Type Heating Torch LPG / HW-50 Heating Torch LPG



Small Type Heating Torch LPG



Medium Type Heating Torch LPG



HW-50 Heating Torch LPG

	Model	Tip		Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [mm]	Connections
		Series	Number	Oxygen	Propane	Oxygen	Propane			
Small Type Heating Torch LPG	573	7350	1	0.3	0.02	820	220	427	810	For Oxygen JIS Number.2 Hose connection
			2	0.4	0.03	1,500	400	483	850	
			3	0.5	0.04	2,100	570	574	880	
Medium Type Heating Torch LPG	574	7450	—	0.5	0.05	9,750	2,600	790	1,180	For Acetylene JIS Number.3 Hose connection
HW-50 Heating Torch LPG	575	7550	—	0.5	0.05	8,650	2,300	986	1,620	

Small Type Heating Torch LPG is including Torch / three tip.
 Torch length is different of each Tip number.

For silicon glass

Lead Burning Torch



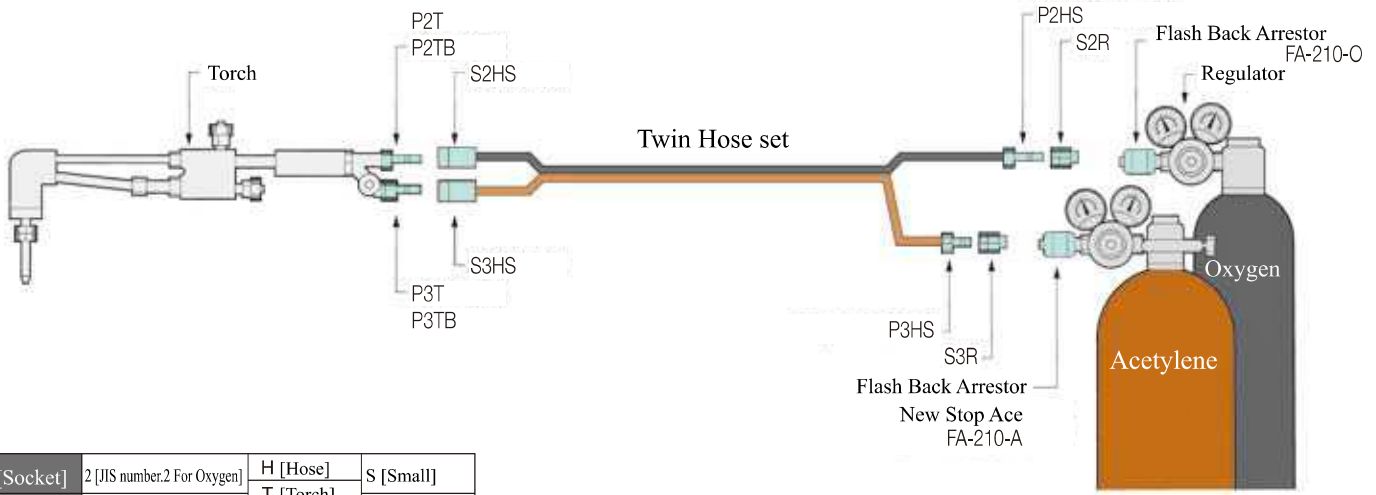
Lead Burning Torch	Fuel Gas	Model	Tip		Working Gas Pressure [MPa]		Consumption [L/h]		Length [mm]	Weight [g]	Connections
			Series	Number	Oxygen	Hydrogen	Oxygen	Hydrogen			
	Hydrogen	—	6220A	1	0.2	0.03	220	440	345	410	For Oxygen JIS Number.1 Hose connection For Acetylene JIS Number.1 Hose connection
2				0.3	0.04	550	1,100				
3				0.5	0.05	900	1,800				
4				0.6	0.06	1,340	2,680				
5				0.7	0.07	2,400	4,800				
6				0.8	0.08	3,830	7,660				
7				0.9	0.09	5,630	11,250				

It is available to Acetylene when choosing the tip from tip number.1 to 5.

■ Feather

The coupling provide quick set up.
 The coupling is a light weight.
 The automatic gas plug shuts off automatically when the plug is removed.
 Moreover, it supplys the gas automatically after insert the plug.
 The connection sizes are different between for oxgen and fuel gas because of safety.
 Moreover, the sleeve are different colours between for Oxgen and Fuel gas.

■ Usage



S [Socket]	2 [JIS number.2 For Oxygen]	H [Hose]	S [Small]
P [Plug]	3 [JIS number.3 For Fuel Gas]	T [Torch]	B [Check valve]
		R [Regulator]	

N Coupling

Gas	Torch side				Hose [Middle]										Regulator side	
	Oxygen		Fuel Gas		Oxygen					Fuel Gas					Oxygen	Fuel Gas
Form	Plug	Plug With check valve	Plug	Plug With check valve	Socket	Socket [Small Type]	Plug	Plug With check valve	Plug [Small Type]	Socket	Socket [Small Type]	Plug	Plug With check valve	Plug [Small Type]	Socket	Socket
Name	P2T	P2TB	P3T	P3TB	S2H	S2HS	P2H	P2HB	P2HS	S3H	S3HS	P3H	P3HB	P3HS	S2R	S3R
Appearance																

N Twin Hose set Small Internal Diameter Type



■ Feather

The twin hose provide quick set up
 It adopts a spring in the regulator side. The spring can prevent to make the hose damage.
 There are two type of hose, for acetylene and LPG.

	Length	Specifications
NW5-5	5m	•Hose internal diameter φ5mm •For Oxygen [Torch side: S2HS Regulator side: P2HS] •For Fuel Gas [Torch side:S3HS Regulator side:P3HS]
NW10-5	10m	
NW20-5	20m	
NW30-5	30m	

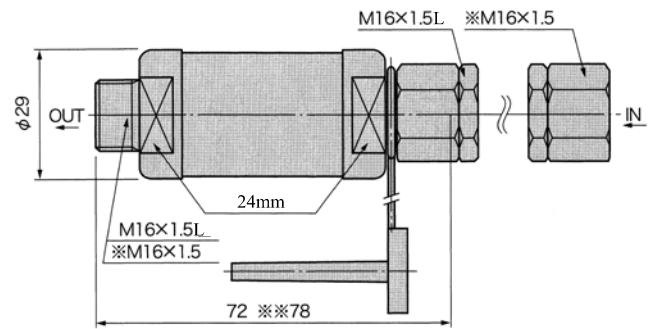
The meaning of specifications			
N	W	10	5
↓	↓	↓	↓
N Coupling	Twin Hose	10m	φ5

Notes: You need to buy P2T or P3T and S2R or S3R optionally when you use Twin Hose.

New Stop A [Flashback Arrestor]



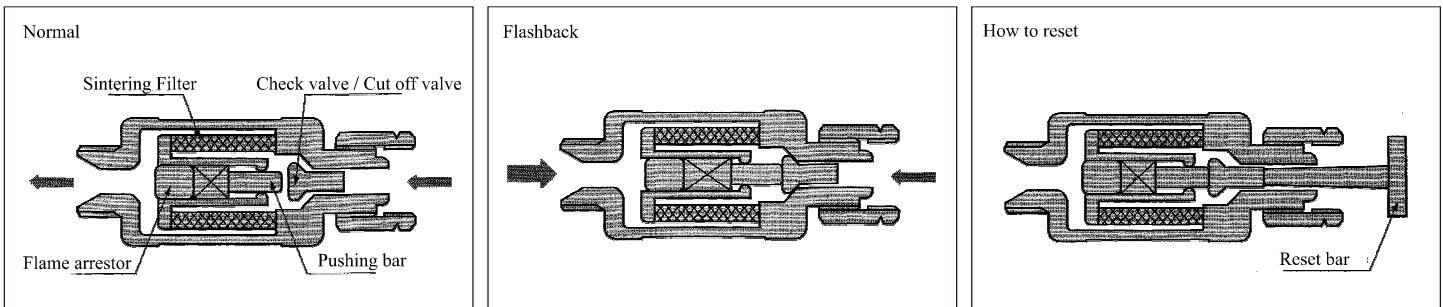
Dimension



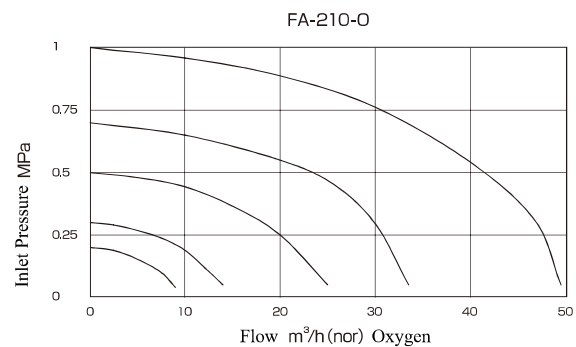
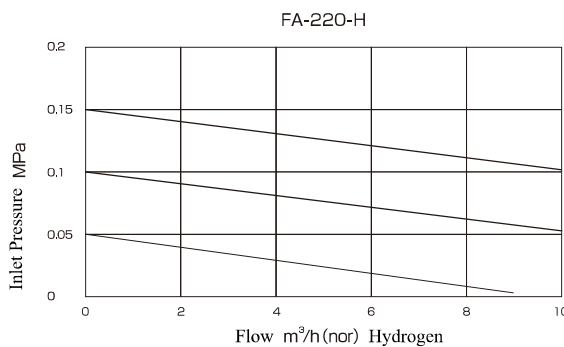
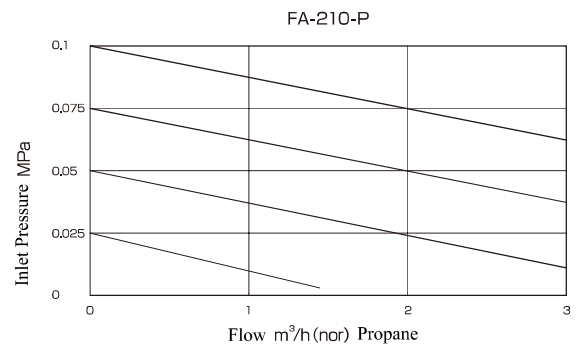
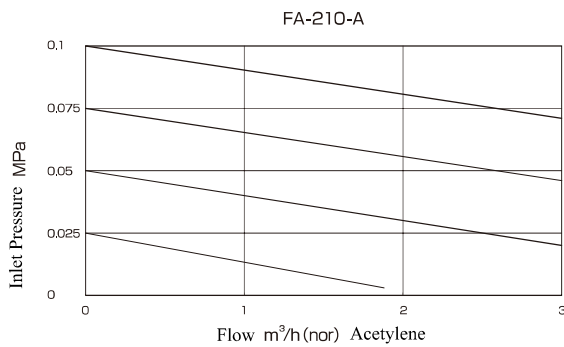
※ Connection of FA-210-O
 ※※ Size of FA-210-O and FA-220-H

Feather

- Compact size and light weight
- It has three functions, flame arrest, check valve and cut off valve.
- It is easy to set up and handle.















Flow








Specifications

Model	FA-210-A	FA-210-P	FA-220-H	FA-210-O
Gas	Acetylene	Propane	Hydrogen	Oxygen
Dimensions [Length × External diameter]	72mm × φ 29mm		78mm × φ 29mm	
Weight	約240g		250g	
Body Material	C3604			
Inlet and Outlet sizes	8A			
Inlet connection	M16×1.5 L Female			M16×1.5 R Female
Outlet connection	M16×1.5 L Male			M16×1.5 R Male
Working Gas Pressure	0.01~0.13MPa	0.01~0.1MPa	0.01~0.15MPa	0.01~0.99MPa
Functions	Flame arrest / Check valve / Cut off valve			

For Hand Torch

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
1120N	Small / Medium Type Cutting Nozzle for Acetylene	3	Acetylene		73.5	Small Type Cutting Torch K
1120NX	Small / Medium Type Cutting Nozzle for Acetylene with plating	3	Acetylene		73.5	Medium Type Cutting Torch Z
1151N	Small / Medium Type Cutting Nozzle for LPG	3	Propane		73.5	Medium Type Cutting Torch U45
1180N	Medium Type Cutting Nozzle for Etylene	3	Etylene		73	Medium Type Cutting Torch Z
1220N	A Type Cutting Nozzle for Acetylene	3	Acetylene		94	A Type Cutting Torch Z
1220NX	A Type Cutting Nozzle with plating for Acetylene	3	Acetylene		94	
1251N	A Type Cutting Nozzle for LPG	3	Propane		94	
1280N	A Type Cutting Nozzle for Ethylene	3	Etylene		94	
1320N	B Type Cutting Nozzle for Acetylene	3	Acetylene		94	B Type Cutting Torch Z
1351N	B Type Cutting Nozzle for LPG	3	Propane		94	
1420	C Type Cutting Nozzle for Acetylene	3	Acetylene		116	C Type Cutting Torch
1450	C Type Cutting Nozzle for LPG	3	Propane		116	

Cutting Nozzle for thick plate

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
CUT Nozzle	Post Mix Nozzle for LPG	3	Propane		85	HC-312E/312F/325D 326C/HC-326L
3357A	Post Mix Nozzle for LPG	2	Propane		85	HC-326CK
3357D	Post Mix Nozzle for LPG	1	Propane		85	HC-326CK
4155	Post Mix Nozzle 5k Divergent Type for LPG	1	Propane		117	HC-402M/403M/404M/405M
4257	Post Mix Nozzle 7k Divergent Type for LPG	4	Propane		140	HC-413M/414M/415M








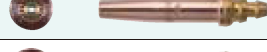

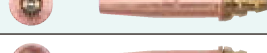
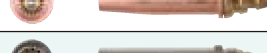



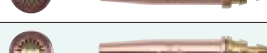










Handle Cutting Nozzle

Series	Thickness [mm]																												Connection			
	0 03	03 05	05 10	10 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 60	60 70	70 80	80 90	90 100	100 120	120 140	140 160	160 180	180 200	200 225	225 250	250 275	275 300	300 325	325 350	350 375		375 400		
1120N	1 2 3																															W13.5-24
1120NX	1 2 3																															W13.5-24
1151N	1 2 3																															W13.5-24
1180N	1 2 3																															W13.5-24
1220N	1 2 3																															W16-20
1220NX	1 2 3																															W16-20
1251N	1 2 3																															W16-20
1280N	1 2 3																															W16-20
1320N													4 5 5/6 6																W16-20			
1351N													4 5 5/6 6																W16-20			
1420													7 7/8 8 9																M20×1.5			
1450													7 7/8 8 9																M20×1.5			
Series	Thickness [mm]																															

Cutting Nozzle for thick plate

Series	Thickness [mm]								Mixing Type		
	0~180	180~230	230~300	300~350	350~400	400~500	500~550	550~800		800~1500	
CUT Nozzle	200		300		400					Tip mixing	
3357A					4 5						Tip mixing
3357D							500				Tip mixing
4155	10								-		
4257							12/14		16		-
Series	Thickness [mm]								Mixing Type		

Cutting Nozzle for automatic cutting machine

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
3011	Cutting Nozzle for Hydrogen	6	Hydrogen		91	HC-312 / 316 / 325 HC-326 HC-338S
3017	Cutting Nozzle 7k divergent for Hydrogen	5	Hydrogen		91	
3040G	Cutting Nozzle for Acetylene	10	Acetylene		90	
3045G	Cutting Nozzle 5k divergent [Inner nozzle is SUS] for Acetylene	7	Acetylene		90	
3047G	Cutting Nozzle 7k divergent [Inner nozzle is SUS] for Acetylene	4	Acetylene		90	
3051	Cutting Nozzle for LPG	11	Propane		92	
3051AN	Cutting Nozzle for LPG [Stable flame type]	7	Propane		92	
3057B	Cutting Nozzle 7k divergent [Inner nozzle is SUS] for LPG Straight heating flame type	10	Propane		90	
3057BB	Cutting Nozzle 7k divergent [Inner nozzle is SUS] for LPG Taper heating flame type	9	Propane		90	
3055BD	Cutting Nozzle 5k divergent [Inner nozzle is SUS] for LPG	9	Propane		90	
3055BE	Cutting Nozzle 5k divergent with O ring [Inner nozzle is SUS] for LPG	7	Propane		90	
3055P	Cutting Nozzle for LPG for thick plate	2	Propane		126.5	HC-312E / HC-316B HC-325 / HC-326
3055W	Double Flame Cutting Nozzle 5k divergent for LPG	8	Propane		91.5	HC-312 / 316 / 325 HC-326 HC-338S
3057W	Double Flame Cutting Nozzle 7k divergent for LPG	2	Propane		91.5	
3059E	Cutting Nozzle 9k divergent for LPG	10	Propane		92	
3059EA	Cutting Nozzle 9k divergent with O ring for LPG	5	Propane		92	
3080	Cutting Nozzle for Etylene	6	Etylene		92	
3240G	Mini Cutting Nozzle for Acetylene	6	Acetylene		75	HC-311
3250B	Mini Cutting Nozzle for LPG	5	Propane		75	HC-337
4520	Cutting Nozzle for Acetylene	2	Acetylene		30	LC-250
4531	Cutting Nozzle for Oxygen	4	Oxygen		30	
4550	Cutting Nozzle for LPG	5	Propane		29	LC-251
4530	Cutting Nozzle for Oxygen	7	Oxygen		28	
3240M	KT-74 Cutting Nozzle for Acetylene	3	Acetylene		120	HC-311M
3250M	KT-74 Cutting Nozzle for LPG	3	Propane		120	

Cutting Nozzle for automatic cutting machine



Series	Thickness [mm]																																Connection																										
	0 03	03 05	05 10	10 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 60	60 70	70 80	80 90	90 100	100 120	120 140	140 160	160 180	180 200	200 225	225 250	250 275	275 300	300 325	325 350	350 375	375 400	400 500																													
3011			0	1	2	3	4	5																										Tip Mixing																									
3017				1	2	3	4	5																										Tip Mixing																									
3040G	00	0	1	2	3	4	5	6	7	8																							Tip Mixing																										
3045G		0	1	2	3	4	5	6																										Tip Mixing																									
3047G			1	2	3	4																												Tip Mixing																									
3051	00	0	1	2	3	4	5	6	7	8	9																						Tip Mixing																										
3051AN		0	1	2	3	4	5	6																									Tip Mixing																										
3057B	00	0	1	2	3	4	5	6	7	8																							Tip Mixing																										
3057BB	00	0	1	2	3	4	5	6	7																								Tip Mixing																										
3055BD	00	0	1	2	3	4	5	6	7																								Tip Mixing																										
3055BE	00	0	1	2	3	4	5																										Tip Mixing																										
3055P	250/300																												300																														Tip Mixing
3055W	0	1	2	3	4	5	6	8																									Tip Mixing																										
3057W		1	2																															Tip Mixing																									
3059E	00	0	1	2	3	4	5	5.5	6	7																							Tip Mixing																										
3059EA		1	2	3	4	5																											Tip Mixing																										
3080		0	1	2	3	4	5																										Tip Mixing																										
3240G	0	0/1	1/2/3	2/3	3/4	4/5	4/5	5																									Tip Mixing																										
3250B	1	2/3	4	4/5	5																												Tip Mixing																										
4520	0~1		2~3																														W8-20																										
4531	0	1	2	3																													W8-20																										
4550	1		2		3/4/5																												M9×1																										
4530	0	1	2	3	4/5/6																												M9×1																										
3240M		1	2	3																													Tip Mixing																										
3250M		1	2	3																													Tip Mixing																										



Gouging Torch

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
1520L	A Type Gouging Nozzle for Acetylene	6	Acetylene		111	A Type Cutting Torch Z
1550L	A Type Gouging Nozzle for LPG	6	Propane		129	
1520	Gouging Nozzle for Acetylene	7	Acetylene		102	Gouging Torch Z
1520S	Gouging Straight Nozzle for Acetylene	4	Acetylene		102	
1550	Gouging Nozzle for LPG	7	Propane		120	
1550S	Gouging Straight Nozzle for LPG	3	Propane		121	
1580^{*3}	Gouging Nozzle for Etylene	2	Etylene		102	




*3 Gouging Torch Z for LPG

Scarfig Torch

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
5140	Mighty C65 Nozzle for Acetylene	5	Acetylene		77	Mighty C65 Scarfig Torch
5150	Mighty C65 Nozzle for Acetylene	5	Propane		77	

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
5451	Mighty 1000E Nozzle for LPG	1	LPG		100	Mighty 1000E Scarfig Torch
5462	Mighty 1000E Nozzle for Coke oven gas	1	Coke oven gas		155	

Marking Nozzle

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
3949	Z Marking Nozzle for Acetylene #10	1	Acetylene		87	Z Marking Torch
3959C	Z Marking Nozzle for LPG #8 #10	2	Propane		98.5	
3959D	Z Marking Nozzle [Inner nozzle is SUS] for LPG #10	1	Propane		98.5	Z Marking Torch for colour marking

Gouging Nozzle

Series	Scarfig [mm]																Connection	
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1520L																	Width	W16-20
	Depth																	
1550L																	Width	W16-20
	Depth																	
1520																	Width	W18-20
	Depth																	
1520S																	Width	W18-20
	Depth																	
1550																	Width	W18-20
	Depth																	
1550S																	Width	W18-20
	Depth																	
1580*3																	Width	W18-20
	Depth																	
Series	Scarfig [mm]																Connection	









Scarfig Nozzle

Series	Scarfig [mm]										Connection
	1~2	2~5	5~10	10~15	15~20	20~25	25~30	30~35	35~40		
5140											W29-16
5150											
Series	1~2	2~5	5~10	10~15	15~20	20~25	25~30	30~35	35~40	Connection	

Series	Scarfig [mm]							Connection
	1~2	2~3	3~4	4~5	5~6		80~110	
5451								M34×1.5
5462								
Series	1~2	2~3	3~4	4~5	5~6		80~110	Connection

Series	Connection
3949	M25×1
3959C	M25×1
3959D	M25×1

Welding and Heating Tip

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
6120	00 Welding Nozzle for Acetylene	7	Acetylene		21.5	00 Welding Torch
6220	Small Type Welding Nozzle for Acetylene	5	Acetylene		35	Small Welding Torch NZ / M
6320M	Medium Type Welding Nozzle for Acetylene	7	Acetylene		40	Medium Welding Torch P / K
6420	A Type Welding Nozzle for Acetylene	7	Acetylene		102 ^{※4} 105 ^{※5}	A Type Welding Torch
6520	B Type Welding Nozzle for Acetylene	5	Acetylene		132.5	B Type Welding Torch
6620	Number.3 Welding Nozzle for Acetylene	3	Acetylene		144	Number.3 Welding Torch S
6720	Number.1 Welding Nozzle for Acetylene	7	Acetylene		49	Number.1 Welding Torch
6820	Number.2 Welding Nozzle for Acetylene	7	Acetylene		52	Number.2 Welding Torch

Heating Tip

Series	Name	Quantities	Gas	Appearance	Length [mm]	Torch
6150D	Micro Torch Nozzle	5	Propane / LNG / Hydrogen Ethylene / Acetylene		18.5	Micro Torch
6162^{※6}	00 Welding Nozzle for LNG	7	LNG		21.5	00 Welding Heating Torch V LNG
6220A	Lead Burning Nozzle	7	Hydrogen		30	Lead Burning Torch
6250	Small Welding Nozzle for LPG	7	Propane		37	Small Welding Torch NZ / M
6350M	Medium Welding Nozzle for LPG	8	Propane		37	Medium Welding Torch P / K
6450	A Type Welding Nozzle for LPG	7	Propane		105.5	A Type Welding Torch
6550	B Type Welding Nozzle for LPG	5	Propane		129	B Type Welding Torch
6650	Number.3 Welding Nozzle for LPG	7	Propane		144	Number.3 Welding Torch S
6850	Number.1 / Number.2 Welding Nozzle for LPG	7	Propane		58	Number.1 / 2 Welding Torch
6950	High Power Nozzle for LPG	3	Propane		75.5	High Power Z S
6951	High Power MOXA Nozzle for LPG	5	Propane		61	High Power MOXA S
6981	High Power MOXA Nozzle for Etylene	5	Propane		60.5	
7350	Small Heating Nozzle for LPG	3	Propane		40	Small Heating Torch for LPG
7450	Medium Heating Nozzle for LPG	1	Propane		42.5	Medium Heating Torch for LPG
7550	HW-50 Heating Nozzle for LPG	1	Propane		134	HW-50 Heating Torch for LPG

※4 In the case of Tip Number from 1 to 3

※5 In the case of Tip Number 5, 7, 10 and 13

※6 Tip series 6162 is a 7 set of tip

Series	Depth [mm]																								Connection																
	Thin 0.5	0.5 1.0	1.0 1.5	1.5 2.0	2.0 2.5	2.5 3.0	3.0 3.5	3.5 4.0	4.0 4.5	4.5 5.0	5.0 6.0	6.0 7.0	7.0 8.0	8.0 9.0	9.0 10.0	10.0 11.0	11.0 12.0	12.0 13.0	13.0 14.0	14.0 15.0	15.0 16.0	16.0 18.0	18.0 20.0	20.0 22.0		22.0 25.0	25.0 30.0	30.0 35.0	35.0 40.0	40.0 45.0	45.0 50.0										
6120	10/15/25										50		75		100		150																W3/16-24								
6220	25		50		75		100		150																W7.5-28																
6320M					50		75		100		150		225		350		500																M8×1								
6420	1		2		3		5		7		10		13																W14-19												
6520											10		13		16		20		25																W17-19						
6620																					30		40		50																W18.5-19
6720											100		150		225		350		500		750		1000																W12-20		
6820											1000		1500		2000		2500		3000		3500		4000																W12-20		
Series	Thin 0.5	0.5 1.0	1.0 1.5	1.5 2.0	2.0 2.5	2.5 3.0	3.0 3.5	3.5 4.0	4.0 4.5	4.5 5.0	5.0 6.0	6.0 7.0	7.0 8.0	8.0 9.0	9.0 10.0	10.0 11.0	11.0 12.0	12.0 13.0	13.0 14.0	14.0 15.0	15.0 16.0	16.0 18.0	18.0 20.0	20.0 22.0	22.0 25.0	25.0 30.0	30.0 35.0	35.0 40.0	40.0 45.0	45.0 50.0	Connection										

Series	Depth [mm]																								Connection										
	Thin 0.5	0.5 1.0	1.0 1.5	1.5 2.0	2.0 2.5	2.5 3.0	3.0 3.5	3.5 4.0	4.0 4.5	4.5 5.0	5.0 6.0	6.0 7.0	7.0 8.0	8.0 9.0	9.0 10.0	10.0 11.0	11.0 12.0	12.0 13.0	13.0 14.0	14.0 15.0	15.0 16.0	16.0 18.0	18.0 20.0	20.0 22.0		22.0 25.0	25.0 30.0	30.0 35.0	35.0 40.0	40.0 45.0	45.0 50.0				
6150D	5/6		7		8		10																M4×0.5												
6162*6	4/6/8/10/15/50/100																		W3/16-24																
6220A	1/2/3/4/5/6/7																								W7.5-28										
6250	6/7/8/9/10/11/12																		W7.5-28																
6350M					10/11/12/13/14/16/18/21																								M8×1						
6450					7/8/10/12/14/15/16																								W14-19						
6550											19/21/23/25/28																								W17-19
6650																					1/2/3/4/5/6/7										W18.5-19				
6850																					1/2/3/4/5/6/7										W12-20				
6950																					1500/2000/2500										W12-24				
6951																					1/2/3/4/5										G1/4				
6981																					1/2/3/4/5										G1/4				
7350	1/2/3																		1,2:W11-20 3:W12-20																
7450																															W14-24				
7550																															W29-16				
Series	Thin 0.5	0.5 1.0	1.0 1.5	1.5 2.0	2.0 2.5	2.5 3.0	3.0 3.5	3.5 4.0	4.0 4.5	4.5 5.0	5.0 6.0	6.0 7.0	7.0 8.0	8.0 9.0	9.0 10.0	10.0 11.0	11.0 12.0	12.0 13.0	13.0 14.0	14.0 15.0	15.0 16.0	16.0 18.0	18.0 20.0	20.0 22.0	22.0 25.0	25.0 30.0	30.0 35.0	35.0 40.0	40.0 45.0	45.0 50.0	Connection				

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