



**VM FLEX**

AUTOMAÇÃO E MANUTENÇÃO INDUSTRIAL

# **COMPONENTES HIDRÁULICOS**

*HYDRAULIC COMPONENTS  
COMPONENTES HIDRÁULICOS*



**DEPÓSITOS / OIL TANKS / DEPÓSITOS****DE AÇO / STEEL / DE ACERO**

Ref.	Volum.
HID160012S	12
HID160016S	16
HID160030S	30
HID160055S	55
HID160075S	75
HID160100S	100
HID160150S	150

Ref.	Volum.
HID160180S	180
HID160225S	225
HID160300S	300
HID160400S	400
HID160500S	500
HID160750S	750


**DE ALUMÍNIO / ALUMINIUM / DE ALUMINIO**

Ref.	Volum.
HID180002	16
HID180003	25
HID180004	55
HID180005	75


**TAMPAS DE REGISTRO COM JUNTA / INSPECTION COVERS WITH O-RING / TAPAS DE REGISTRO COM JUNTA**

Ref.	Ø
MP-06003	275
MP-06004	350

**NÍVEIS VISUAIS  
VISUAL LEVELS  
NIVELES VISUALES****SEM TERMÔMETRO / WITHOUT THERMOMETER / SIN TERMÓMETRO**

Ref.	Long. (mm)	
VMF160001	76	M 10
VMF160002	127	M 12
VMF160003	254	M 12


**COM TERMÔMETRO / WITH THERMOMETER / CON TERMÓMETRO**

Ref.	Long. (mm)	
VMF160101	76	M 10
VMF160102	127	M 12
VMF160103	254	M 12

**NÍVEIS ELÉTRICOS COM ROSCA DE 1" E BRAÇADEIRA / ELECTRICAL LEVELS WITH 1" THREAD AND FLANGE / NIVELES ELÉCTRICOS CON ROSCA DE 1" Y BRIDA**

Ref.	Long. (mm)
FT-0600100	100
FT-0600150	150
FT-0600200	200
FT-0600250	250
FT-0600300	300
FT-0600350	350
FT-0600400	400
FT-0600450	450
FT-0600500	500


**VISORS ALUMÍNIO  
ALUMINIUM SIGHTS  
MIRILLAS ALUMINIO**

Ref.	
FT-0103001	1/4
FT-0103002	3/8
FT-0103003	1/2
FT-0103004	3/4
FT-0103005	1"
FT-0103006	1"1/4
FT-0103007	1"1/2
FT-0103008	2"

**TAMPÕES RESPIRO**  
**OIL FILLING PLUG WITH BREATHER**  
**TAPONES DESVAPORIZADORES**


**PLÁSTICO COM FILTRO / PLASTIC WITH FILTER /**  
**PLÁSTICO COM FILTRO**



Ref.	
CHI030017	3/8
CHI030018	1/2
CHI030019	3/4
CHI030014	1"


**ALUMÍNIO COM FILTRO / ALUMINIUM WITH FILTER /**  
**ALUMINIO CON FILTRO**



Ref.	
FT-0102001	1/4
FT-0102002	3/8
FT-0102003	1/2
FT-0102004	3/4
FT-0102005	1"
FT-0102006	1"1/4
FT-0102007	1"1/2
FT-0102008	2"

**FLANGE DE BOMBAS SAÍDA RETA**  
**PUMP FLANGES STRAIGHT PORT**  
**BRIDAS BOMBAS SALIDA RECTA**



Ref.	Type	Ø	
TO-010001	RF	30	3/8
TO-010002	RF	40	1/2
TO-010003	RF	51	3/4

**TAMPÕES DE ENCHIMENTO COM FILTRO**  
**FILLING PLUGS WITH FILTER**  
**TAPONES DE LLENADO CON FILTRO**



Ref.	Ø	Long. (mm)
VMF150001	46	65
VMF150002	80	80
VMF150003	80	150




**LUNETAS GRUPO 1-2-3**  
**BELLHOUSING GROUP 1-2-3**  
**CAMPANAS GRUPO 1-2-3**

Ref.	Type	Rang.
MP-02003	0,75-2 CV Gr. 1	0,75-2 CV
MP-02009	3-5,5 CV Gr. 1	3-5,5 CV
MP-02005	0,75-2 CV Gr. 2	0,75-2 CV
MP-02010	3-5,5 CV Gr. 2	3-5,5 CV
MP-02017	7,5-12,5 CV Gr. 2	7,5-12,5 CV
MP-02025	15-30 CV Gr. 2	15-30 CV
MP-02011	3-5,5 CV Gr. 3	3-5,5 CV
MP-02018	7,5-12,5 CV Gr. 3	7,5-12,5 CV
MP-02026	15-30CV Gr. 3	15-30CV

**FLANGE DE BOMBAS SAÍDA RETA PROLONGADA**  
**PUMP FLANGES LONGER STRAIGHT PORT**  
**BRIDAS BOMBAS SALIDA RECTA PROLONGADA**



Ref.	Type	Ø	
TO-020001	RFI	30	3/8
TO-020002	RFI	30	1/2
TO-020003	RFI	40	1/2
TO-020004	RFI	40	3/4
TO-020005	RFI	51	1"




**ACOPLAMENTOS GRUPO 1-2-3**  
**COUPLINGS GROUP 1-2-3**  
**ACOPLAMIENTOS GRUPO 1-2-3**

Ref.	Type	Rang.
MP-090014	0,17-0,25 CV Gr. 1	0,17 - 0,25 CV
MP-090015	0,33-0,5 CV Gr. 1	0,33 0,5 CV
MP-090016	0,75-1 CV Gr. 1	0,75 - 1 CV
MP-090017	1,5-2 CV Gr. 1	1,5 - 2 CV
MP-090018	3-5,5 CV Gr. 1	3 - 5,5 CV
MP-090002	0,75-1 CV Gr. 2	0,75-1 CV
MP-090003	1,5-2 CV Gr. 2	1,5-2 CV
MP-090004	3-5,5 CV Gr. 2	3-5,5 CV
MP-090005	7,5-12,5 CV Gr. 2	7,5-12,5 CV
MP-090006	15-20 CV Gr. 2	15-20 CV
MP-090007	25-30 CV Gr. 2	25-30 CV
MP-090009	3,5-5,5 CV Gr. 3	3,5 - 5,5 CV
MP-090010	7,5-12,5 CV Gr. 3	7,5-12,5 CV
MP-090011	15-20 CV Gr. 3	15-20 CV
MP-090012	25-30 CV Gr. 3	25-30 CV

**FLANGE DE BOMBAS SAÍDA JOELHO 90° RG**  
**PUMP FLANGES RG 90° ELBOW PORT**  
**BRIDAS BOMBAS SALIDA CODO 90° RG**



Ref.	Type	Ø	
TO-030000	RG	26	3/8
TO-030001	RG	30	3/8
TO-030002	RG	30	1/2
TO-030003	RG	40	1/2
TO-030004	RG	40	3/4
TO-030009	RG	51	3/4
TO-030005	RG	51	1"
TO-030006	RG	56	1"
TO-030007	RG	62	1"1/4
TO-030008	RG	72	1"1/2
TO-030010	RG	92	2"1/2


**SUPORTES PÉ MOTOR**  
**FOOT SUPPORT MOTOR**  
**SOPORTES PIE MOTOR**



Ref.	Ø
MP-110001	160
MP-110002	200
MP-110003	250
MP-110004	300
MP-110005	350

**FLANGE DE BOMBAS SAÍDA JOELHO 90° RGB**  
**PUMP FLANGES RGB 90° ELBOW PORT**  
**BRIDAS BOMBAS SALIDA CODO 90° RGB**




Ref.	Type	Ø	
TO-040007	RGB	30	3/8
TO-040001	RGB	35	3/8
TO-040002	RGB	35	1/2
TO-040003	RGB	40	1/2
TO-040004	RGB	40	3/4
TO-040006	RGB	55	3/4
TO-040005	RGB	55	1"

## FILTROS ASPIRAÇÃO / SUCTION FILTERS / FILTROS ASPIRACIÓN

### SUMERGIDOS / SUMERGED / SUMERGIDOS


#### SUMERGIDOS 125 MICRAS / SUMERGED 125 MICRON / SUMERGIDOS 125 MICRAS




Ref.	Vol.	Q (l/min.)	
VMF125005	5	5	3/8
VMF125010	10	10	3/8
VMF125015	15	15	1/2
VMF125025	25	25	3/4
VMF125050	50	50	1"
VMF125075	75	75	1 1/4
VMF125100	100	100	1 1/2
VMF125130	130	130	1 1/2
VMF125180	180	180	2"
VMF125225	225	225	2"
VMF125350	350	350	2 1/2
VMF125500	500	500	3"

#### SUMERGIDOS 90 MICRAS / SUMERGED 90 MICRON / SUMERGIDOS 90 MICRAS




Ref.	Vol.	Q (l/min.)	
MP-STR0501G1M90	5	5	3/8
MP-STR0502G1M90	15	15	1/2
MP-STR0701G1M90	20	20	1/2
MP-STR0702G1M90	30	30	3/4
MP-STR0703G1M90	45	45	3/4
MP-STR0704G1M90	75	75	1"
MP-STR1001G1M90	100	100	1 1/4
MP-STR1002G1M90	125	125	1 1/4

Ref.	Vol.	Q (l/min.)	
MP-STR1003G1M90	150	150	1 1/2
MP-STR1004G1M90	300	300	2"
MP-STR1005G1M90	175	175	1 1/2
MP-STR1402G1M90	350	350	2"
MP-STR1403G1M90	400	400	2"
MP-STR1404G1M90	500	500	2 1/2
MP-STR1405G1M90	600	600	3"
MP-STR1406G1M90	700	700	3"

## FILTROS ASPIRAÇÃO EM LINHA / IN-LINE SUCTION FILTERS / FILTROS ASPIRACIÓN EN LÍNEA

### CABEÇAL FILTER HEAD / CABEZAL



Ref.	
MP-MPS050SG1	3/4
MP-MPS100SG1	1 1/4


### INDICADORES (FILTROS ASPIRAÇÃO EM LINHA) / INDICATORS (IN-LINE SUCTION FILTERS) / INDICADORES (FILTROS ASPIRACIÓN EN LÍNEA)




Ref.	Type
MP-VS	Optic.

### CARTUCHOS (FILTROS ASPIRAÇÃO EM LINHA) / CARTRIDGES (IN-LINE SUCTION FILTERS) / CARTUCHOS (FILTROS ASPIRACIÓN EN LÍNEA)



Ref.	Long. (mm)		(μ)
MP-CS050A10AN	145	3/4	10
MP-CS050M60A	145	3/4	60
MP-CS050M90A	145	3/4	90
MP-CS050P10A	145	3/4	10
MP-CS050P25A	145	3/4	25
MP-CS070M60A	210	3/4	60
MP-CS070M90A	210	3/4	90
MP-CS070P10A	210	3/4	10
MP-CS070P25A	210	3/4	25


Ref.	Long. (mm)		(μ)
MP-CS100M60A	180	1 1/4	60
MP-CS100M90A	180	1 1/4	90
MP-CS100P10A	180	1 1/4	10
MP-CS100P25A	180	1 1/4	25
MP-CS150M60A	230	1 1/4	60
MP-CS150M90A	230	1 1/4	90
MP-CS150P10A	230	1 1/4	10
MP-CS150P25A	230	1 1/4	25

## FILTROS DE RETORNO / RETURN FILTERS / FILTROS DE RETORNO

### FILTROS DE RETORNO EM LINHA / IN-LINE RETURN FILTERS / FILTROS DE RETORNO EN LÍNEA

#### CABEÇAL / BODY FILTERS / CABEZALES



Ref.	
MP-MPS050RG1	3/4
MP-MPS100RG1	1"1/4
MP-MPS200RG1	1"1/2


#### INDICADORES (FILTROS DE RETORNO EM LINHA) / INDICATORS (IN-LINE RETURN FILTERS) / INDICADORES (FILTROS DE RETORNO EN LÍNEA)




Ref.	Type
MP--ER	Electric.
MP--VR	Optic.

#### CARTUCHOS (FILTROS DE RETORNO EM LINHA) / CARTRIDGES (IN-LINE RETURN FILTERS) / CARTUCHOS (FILTROS DE RETORNO EN LÍNEA)




Ref.	Long. (mm)		(µ)
MP-CS050A10AN	145	3/4	10
MP-CS050M60A	145	3/4	60
MP-CS050M90A	145	3/4	90
MP-CS050P10A	145	3/4	10
MP-CS050P25A	145	3/4	25
MP-CS070M60A	210	3/4	60
MP-CS070M90A	210	3/4	90
MP-CS070P10A	210	3/4	10
MP-CS070P25A	210	3/4	25

Ref.	Long. (mm)		(µ)
MP-CS100M60A	180	1"1/4	60
MP-CS100M90A	180	1"1/4	90
MP-CS100P10A	180	1"1/4	10
MP-CS100P25A	180	1"1/4	25
MP-CS150M60A	230	1"1/4	60
MP-CS150M90A	230	1"1/4	90
MP-CS150P10A	230	1"1/4	10
MP-CS150P25A	230	1"1/4	20

### FILTROS DE RETORNO SEMISUMERGIDOS / TOP TANK RETURN FILTERS / FILTROS DE RETORNO SEMISUMERGIDOS

#### CARCAÇAS (FILTROS DE RETORNO SEMISUMERGIDOS) / BODIES (TOP TANK RETURN FILTERS) / CARCASAS (FILTROS DE RETORNO SEMISUMERGIDOS)



Ref.	
MP-MPF0301G1	1/2
MP-MPF1001G2	3/4
MP-MPF1002G2	3/4
MP-MPF1002G3	1"
MP-MPF1801G1	1"1/4
MP-MPF4002AG2	1"1/2
MP-MPF4003AG3	2"

#### INDICADORES (FILTROS DE RETORNO SEMISUMERGIDOS) / INDICATORS (TOP TANK RETURN FILTERS) / INDICADORES (FILTROS DE RETORNO SEMISUMERGIDOS)



Ref.	Type
MP--ER	Electric.
MP--V1	Optic.


#### CARTUCHOS (FILTROS DE RETORNO SEMISUMERGIDOS) / CARTRIDGES (TOP TANK RETURN FILTERS) / CARTUCHOS (FILTROS DE RETORNO SEMISUMERGIDOS)



Ref.	(µ)
MP-MF0301M60NB	60
MP-MF0301P10NB	10
MP-MF0301P25NB	25
MP-MF1001M60NB	60
MP-MF1001M90NB	90
MP-MF1001P25NB	25
MP-MF1002M25NB	25
MP-MF1002M60NB	90
MP-MF1002M60NB	90
MP-MF1002P10NB	10
MP-MF1002P25NB	25
MP-MF1003P25NB	25

Ref.	(µ)
MP-MF1801A10HB	10
MP-MF1801A25HB	25
MP-MF1801M60NB	90
MP-MF1801M60NB	90
MP-MF1801P25NB	25
MP-MF4002M60NB	60
MP-MF4002P10NB	10
MP-MF4002P25NB	25
MP-MF4003A10HB	10
MP-MF4003M60NB	60
MP-MF4003P10NB	10
MP-MF4003P25NB	25


**FILTROS DE RETORNO SUMERGIDOS / SUMERGED RETURN FILTERS / FILTROS DE RETORNO SUMERGIDOS****FILTRO COMPLETO / COMPLETE FILTER / FILTRO COMPLETO**

Ref.	Volum.	Q (l/min.)	
OMTAFR030	30	30	1/2
OMTAFR060	60	60	3/4
OMTAFR100	100	100	1"
OMTAFR180	180	180	1"1/4

**FILTROS PRESSÃO**  
**PRESSURE FILTERS**  
**FILTROS PRESIÓN**

**CARCAÇAS (FILTROS PRESSÃO) /**  
**BODIES (PRESSURE FILTERS) /**  
**CARCASAS (FILTROS PRESIÓN)**



Ref.	
MP-FHP0651BAG1	1/2
MP-FHP0651BAG2	3/4
MP-FHP0652BAG2	3/4
MP-FHP0653BAG2	3/4
MP-FHP1351BAG2	3/4
MP-FHP1352BAG2	1"
MP-FHP3202BAF5	1"1/4
MP-FHP3203BAF5	1"1/4
MP-FMP0381BAG1P02	1"1/2


**INDICADORES (FILTROS PRESSÃO) /**  
**INDICATORS (PRESSURE FILTERS) /**  
**INDICADORES (FILTROS PRESIÓN)**




Ref.	Type
MP--V7	Optic. 5bar
MP--V8	Optic. 7bar
MP--E7	Electric. 5bar
MP--E8	Electric. 7bar

**FILTROS PRESSÃO**  
**PRESSURE FILTERS**  
**FILTROS PRESIÓN**

**FILTROS AR / AIR FILTERS / FILTROS AIRE**

Ref.	Q (l/min.)	
MP-SA036G2L40A	140	3/8
MP-SA075G2L40A	400	3/4
MP-SA115G1L40A	850	1"


Ref.	Q (l/min.)	
MP-SA145G1L40A	1850	1"1/2
MP-SA185G1L40A	2500	2"1/2

## PRESOSTATOS / PRESSURE SWITCHES / PRESOSTATOS

### PRESOSTATOS NORMALMENTE ABERTO / PRESSURE SWITCHES NORMALLY OPEN 1/4 / PRESOSTATOS NORMALMENTE ABIERTO


PRESOSTATOS NORMALMENTE ABERTO DE 1/4 DE MEMBRANA / MEMBRANE PRESSURE SWITCHES NORMALLY OPEN 1/4 / PRESOSTATOS NORMALMENTE ABIERTO DE 1/4 DE MEMBRANA



Ref.	Rang.	
INSPRE01001	1 - 12	25
INSPRE01002	5 - 50	200

PRESOSTATOS NORMALMENTE ABERTO DE 1/4 DE PISTÃO / PISTON PRESSURE SWITCHES NORMALLY OPEN 1/4 / PRESOSTATOS NORMALMENTE ABIERTO DE 1/4 DE PISTÃO




Ref.	Rang.	
INSPRE01003	10 - 100	300
INSPRE01004	20 - 200	300
INSPRE01005	50 - 400	600

### PRESOSTATOS COMUTÁVEIS / COMMUTABLE PRESSURE SWITCHES / PRESOSTATOS CONMUTABLES


PRESOSTATOS COMUTÁVEIS DE 1/4 DE MEMBRANA / MEMBRANE COMMUTABLE PRESSURE SWITCHES 1/4 / PRESOSTATOS CONMUTABLES DE 1/4 DE MEMBRANA



Ref.	Rang.	
INSPRE02001	1 - 12	25

PRESOSTATOS COMUTÁVEIS DE 1/4 DE PISTÃO / PISTON COMMUTABLE PRESSURE SWITCHES 1/4 / PRESOSTATOS CONMUTABLES DE 1/4 DE PISTÃO



Ref.	Rang.	
INSPRE02002	5 - 50	200
INSPRE02003	10 - 100	300
INSPRE02004	20 - 200	300
INSPRE02005	50 - 400	600

## PRESOSTATOS PRESSURE SWITCHES PRESOSTATOS

PRESOSTATOS COMUTÁVEIS DE PISTÃO COM PLACA E ROSCA FÊMEA BSP 1/4 / PRESSURE SWITCHES ON SUB-PLATED 1/4 FEMALE THREAD / PRESOSTATOS CONMUTABLES DE PISTON CON PLACA Y ROSCA HEMBRA BSP 1/4




Ref.	Type	Rang.
INSPRE03001	K5	2 40
INSPRE03002	K5	5 100
INSPRE03003	K5	20 200

Ref.	Type	Rang.
INSPRE03004	K5	30 300
INSPRE03005	K5	40 400

### TERMOSTATOS (°C) / THERMOSTATS (°C) / TERMOSTATOS (°C)



Ref.	Type	Long. (mm)		Rang.
CI-TF47	TF47		1/2	47°C
CI-TF60	TF60		1/2	60°C
CI-TR100	TR100	100	1/2	0-90°C
CI-TR200	TR200	200	1/2	0-90°C




**TRANSDUTORES / TRANSDUCERS / TRANSDUCTORES****TRANSDUTORES A10 4-20mA 10.30v /  
TRANSDUCERS A10 4-20mA 10.30v /  
TRANSDUCTORES A10 4-20mA 10.30v**

Ref.	Type	Rang.
WIK0400001	A-10	0-1
WIK0400006	A-10	0-6
WIK0400010	A-10	0-10
WIK0400025	A-10	0-25
WIK0400040	A-10	0-40
WIK0400060	A-10	0-60
WIK0400100	A-10	0-100
WIK0400160	A-10	0-160
WIK0400250	A-10	0-250
WIK0400400	A-10	0-400


**DISPLAY DIGITAL DIGITAL DISPLAY  
DISPLAY DIGITAL**

Ref.	Type
WIK0400000	A AI-1

**PROTETORES E SELETORES / GAUGE ISOLATORS AND PRESSURE SELECTOR VALVES /  
PROTECTORES Y SELECTORES****PROTETORES / GAUGE ISOLATORS / PROTECTORES**

Ref.	Type	
FT-030001	FT290	M-H 1/4
FT-030002	FT291	M-H 1/4
FT-030003	FT299	M-H 1/4

**SELECTORES / PRESSURE SELECTOR VALVES /  
SELECTORES**

Ref.	Type	
MP-SM1-3G50A	3P+1T	H 1/4
MP-SM1-6G50A	6P+1T	H 1/4




**KITS DE MEDIÇÃO / TESTING UNITS / MALETINES DE COMPROBACIÓN**

Ref.	Type
WIK150001	VMFLEX
WIK150002	WIKA

## INTERCAMBIADORES AR/ÓLEO AIR/OIL HEAT EXCHANGERS INTERCAMBIADORES AIRE/ACEITE




### INTERCAMBIADORES CSL PARA CAUDAIS DE 20 A 200 L/M CSL HEAT EXCHANGERS FLOWS FROM 20 TO 200 L/M INTERCAMBIADORES CSL PARA CAUDALES DE 20 A 200 L/M



Ref.	Type	Q (l/min.)		Rang.		Volt.	
CI-CSL04-12-A-60	CLS04	20	1/2	60°C	20	12 dc	30
CI-CSL04-24-A-60	CLS04	20	1/2	60°C	20	24 dc	30
CI-CSL04-22-A-47-C	CSL04	20	1/2	47°C	20	220 ac	30
CI-CSL05-12-A-60	CLS05	35	1/2	60°C	20	12 dc	30
CI-CSL05-24-A-60	CLS05	35	1/2	60°C	20	24 dc	30
CI-CSL05-22-A-47-C	CLS05	35	1/2	47°C	20	220 ac	30
CI-CSL07-12-A-60	CSL07	70	3/4	60°C	20	12 dc	30
CI-CSL07-24-A-60	CSL07	70	3/4	60°C	20	24 dc	30
CI-CSL07-22-A-47-C	CSL07	70	3/4	47°C	20	220 ac	30
CI-CSL07-22-A-47-2PC	CSL07	40	3/4	47°C	20	220 ac	30
CI-CSL1-12-A-60	CSL1	100	3/4	60°C	20	12 dc	30
CI-CSL1-24-A-60	CSL1	100	3/4	60°C	20	24 dc	30
CI-CSL1-38-A-47	CSL1	100	3/4	47°C	20	220/380 ac	30
CI-CSL1-22-A-47-C	CSL1	100	3/4	47°C	20	220 ac	30
CI-CSL1-12-A-60-2P	CSL1	65	3/4	60°C	20	12 dc	30
CI-CSL1-24-A-60-2P	CSL1	65	3/4	60°C	20	24 dc	30
CI-CSL1-22-A-47-2PC	CSL1	65	3/4	47°C	20	220 ac	30
CI-CSL1-38-A-47-2P	CSL1	65	3/4	47°C	20	220/380 ac	30
CI-CSL2-12-A-60	CSL2	120	3/4	60°C	20	12 dc	30
CI-CSL2-24-A-60	CSL2	120	3/4	60°C	20	24 dc	30
CI-CSL2-38-A-47	CSL2	120	3/4	47°C	20	220/380 ac	30
CI-CSL2-22-A-47-C	CSL2	120	3/4	47°C	20	220 ac	30
CI-CSL2-12-A-60-2P	CSL2	120	3/4	60°C	20	12 dc	30
CI-CSL2-24-A-60-2P	CSL2	70	3/4	60°C	20	24 dc	30
CI-CSL2-38-A-47-2P	CSL2	70	3/4	47°C	20	220/380 ac	30
CI-CSL2-22-A-47-2PC	CSL2	70	3/4	47°C	20	220 ac	30
CI-CSL3-12-A-60	CSL3	130	1"	60°C	20	12 dc	30
CI-CSL3-24-A-60	CSL3	130	1"	60°C	20	24 dc	30
CI-CSL3-38-A-47	CSL3	130	1"	47°C	20	220/380 ac	30
CI-CSL3-22-A-47-C	CSL3	130	1"	47°C	20	220/380 ac	30
CI-CSL3-12-A-60-2P	CSL3	80	1"	60°C	20	12 dc	30
CI-CSL3-24-A-60-2P	CSL3	80	1"	60°C	20	24 dc	30
CI-CSL3-22-A-47-2PC	CSL3	80	1"	47°C	20	220 ac	30
CI-CSL3-38-A-47-2P	CSL3	80	1"	47°C	20	220/380 ac	30
CI-CSL4-12-A-60	CSL4	140	1"1/4	60°C	20	12 dc	30
CI-CSL4-24-A-60	CSL4	140	1"1/4	60°C	20	24 dc	30
CI-CSL4-22-A-47-C	CSL4	140	1"1/4	47°C	20	220 ac	30
CI-CSL4-38-A-47	CSL4	140	1"1/4	47°C	20	220/380 ac	30
CI-CSL4-12-A-60-2P	CSL4	90	1"1/4	60°C	20	12 dc	30
CI-CSL4-24-A-60-2P	CSL4	90	1"1/4	60°C	20	24 dc	30
CI-CSL4-22-A-47-2PC	CSL4	90	1"1/4	47°C	20	220 ac	30
CI-CSL4-38-A-47-2P	CSL4	90	1"1/4	47°C	20	220/380 ac	30
CI-CSL5-12-A-60	CSL05	180	1"1/4	60°C	20	12 dc	30
CI-CSL5-24-A-60	CSL05	180	1"1/4	60°C	20	24 dc	30
CI-CSL5-38-A-47	CSL05	180	1"1/4	47°C	20	220/380 ac	30
CI-CSL5-12-A-60-2P	CSL05	110	1"1/4	60°C	20	12 dc	30
CI-CSL5-24-A-60-2P	CSL05	110	1"1/4	60°C	20	24 dc	30
CI-CSL5-38-A-47-2P	CSL05	110	1"1/4	47°C	20	220/380 ac	30





**INTERCAMBIADORES CSA PARA CAUDAIS DE 40 A 600 L/M**  
**CSA HEAT EXCHANGERS FLOWS FROM 40 TO 600 L/M**  
**INTERCAMBIADORES CSA PARA CAUDALES DE 40 A 600 L/M**



Ref.	Type	Q (l/min.)		Rang.		Volt.	
CI-CSA3-12-A-60	CSA3	130	1"	60°C	20	12 dc	30
CI-CSA3-24-A-60	CSA3	130	1"	60°C	20	24 dc	30
CI-CSA3-22-A-47-C	CSA3	130	1"	47°C	20	220 ac	30
CI-CSA3-38-A-47	CSA3	130	1"	47°C	20	220/380 ac	30
CI-CSA4-12-A-60	CSA4	150	1 1/4"	60°C	20	12 dc	30
CI-CSA4-24-A-60	CSA4	150	1 1/4"	60°C	20	24 dc	30
CI-CSA4-22-A-47-C	CSA4	150	1 1/4"	47°C	20	220 ac	30
CI-CSA4-38-A-47	CSA4	150	1 1/4"	47°C	20	220/380 ac	30
CI-CSA4-12-A-60-2P	CSA4	82	1 1/4"	60°C	20	12 dc	30
CI-CSA4-24-A-60-2P	CSA4	82	1 1/4"	60°C	20	24 dc	30
CI-CSA4-22-A-47-2P	CSA4	82	1 1/4"	47°C	20	220 ac	30
CI-CSA4-38-A-47-2P	CSA4	82	1 1/4"	47°C	20	220/380 ac	30
CI-CSA5-12-A-60	CSA5	150	1 1/4"	60°C	20	12 dc	30
CI-CSA5-24-A-60	CSA5	150	1 1/4"	60°C	20	24 dc	30
CI-CSA5-38-A-47	CSA5	150	1 1/4"	47°C	20	220/380 ac	30
CI-CSA5-12-A-60-2P	CSA5	100	1 1/4"	60°C	20	12 dc	30
CI-CSA5-24-A-60-2P	CSA5	100	1 1/4"	60°C	20	24 dc	30
CI-CSA5-38-A-47-2P	CSA5	100	1 1/4"	47°C	20	220/380 ac	30
CI-CSA6-12-A-60	CSA6	180	1 1/4"	60°C	20	12 dc	30
CI-CSA6-24-A-60	CSA6	180	1 1/4"	60°C	20	24 dc	30
CI-CSA6-38-A-47	CSA6	180	1 1/4"	47°C	20	220/380 ac	30
CI-CSA6-12-A-60-2P	CSA6	115	1 1/4"	60°C	20	12 dc	30
CI-CSA6-24-A-60-2P	CSA6	115	1 1/4"	60°C	20	24 dc	30
CI-CSA6-38-A-47-2P	CSA6	115	1 1/4"	47°C	20	220/380 ac	30
CI-CSA7-38-A-47	CSA7	230	1 1/4"	47°C	20	220/380 ac	30
CI-CSA7-38-A-47-2P	CSA7	140	1 1/4"	47°C	20	220/380 ac	30
CI-CSA8-38-A-47	CSA8	280	1 1/2"	47°C	20	220/380 ac	30
CI-CSA8-38-A-47-2P	CSA8	180	1 1/2"	47°C	20	220/380 ac	30
CI-CSA10-38-A-47	CSA10	320	1 1/2"	47°C	20	220/380 ac	30
CI-CSA10-38-A-47-2P	CSA10	180	1 1/2"	47°C	20	220/380 ac	30
CI-CSA12-38-A-47	CSA12	360	1 1/2"	47°C	20	220/380 ac	30
CI-CSA12-38-A-47-2P	CSA12	210	1 1/2"	47°C	20	220/380 ac	30
CI-CSA14-38-A-47	CSA14	440	1 1/2"	47°C	20	220/380 ac	30
CI-CSA14-38-A-47-2P	CSA14	260	1 1/2"	47°C	20	220/380 ac	30
CI-CSA15-38-A-47	CSA15	480	1 1/2"	47°C	20	220/380 ac	30
CI-CSA15-38-A-47-2P	CSA15	280	1 1/2"	47°C	20	220/380 ac	30
CI-CSA16-38-A-47	CSA16	520	1 1/2"	47°C	20	220/380 ac	30
CI-CSA16-38-A-47-2P	CSA16	330	1 1/2"	47°C	20	220/380 ac	30
CI-CSA18-38-A-47	CSA18	500	2"	47°C	20	220/380 ac	30
CI-CSA20-38-A-47	CSA20	500	2"	47°C	20	220/380 ac	30
CI-CSA22-38-A-47	CSA22	580	2 1/2"	47°C	20	220/380 ac	30
CI-CSA24-38-A-47	CSA24	580	2 1/2"	47°C	20	220/380 ac	30




**INTERCAMBIADORES CSK PARA CAUDAIS DE 5 A 60 L/M**  
**CSK HEAT EXCHANGERS FLOWS FROM 5 TO 60 L/M**  
**INTERCAMBIADORES CSK PARA CAUDALES DE 5 A 60 L/M**



Ref.	Type	Q (l/min.)			Rang.		Volt.	
CI-CSK2-12-A-60	CSK2	55	26x150	1 1/4"	60°C	5	12 dc	5
CI-CSK2-24-A-60	CSK2	55	26x150	1 1/4"	60°C	5	24 dc	5
CI-CSK3-12-A-60	CSK3	60	26x150	1 1/4"	60°C	5	12 dc	5
CI-CSK3-24-A-60	CSK3	60	26x150	1 1/4"	60°C	5	24 dc	5




**INTERCAMBIADORES AGUA/ÓLEO CSW PARA CAUDAIS DE 30 A 400 L/M**  
**CSW WATER/OIL HEAT EXCHANGERS FLOWS FROM 30 TO 400 L/M**  
**INTERCAMBIADORES AGUA/ACEITE CSW PARA CAUDALES DE 30 A 400 L/M**



Ref.	Type	Q (l/min.)			
CI-CSW1-14-2	CSW1	30	3/8	12	18
CI-CSW1-26-2	CSW1	40	3/8	12	18
CI-CSW1-44-2	CSW1	50	3/8	12	18
CI-CSW1-9-2I	CSW1	30	3/8	12	18
CI-CSW1-19-2I	CSW1	40	3/8	12	18
CI-CSW2-12-2	CSW2	50	1/2	12	18
CI-CSW2-28-2	CSW2	60	1/2	12	18
CI-CSW2-53-2	CSW2	80	1/2	12	18
CI-CSW2-18-2I	CSW2	60	1/2	12	18
CI-CSW3-15-4	CSW3	70	1/2	12	18
CI-CSW3-31-4	CSW3	90	1/2	12	18
CI-CSW3-38-4	CSW3	90	1/2	12	18
CI-CSW3-56-4	CSW3	90	1/2	12	18
CI-CSW3-71-4	CSW3	130	1/2	12	18
CI-CSW3-87-4	CSW3	140	1/2	12	18
CI-CSW4-31-4	CSW4	125	1/2	12	18
CI-CSW4-38-4	CSW4	125	1/2	12	18
CI-CSW4-56-4	CSW4	155	1/2	12	18
CI-CSW4-71-4	CSW4	185	1/2	12	18
CI-CSW4-87-4	CSW4	195	1/2	12	18
CI-CSW5-28-4	CSW5	170	1"	12	18
CI-CSW5-53-4	CSW5	220	1"	12	18
CI-CSW5-84-4	CSW5	300	1"	12	18
CI-CSW5-99-4	CSW5	310	1"	12	18
CI-CSW6-28-4	CSW6	160	1"	12	18
CI-CSW6-53-4	CSW6	230	1"	12	18
CI-CSW6-54-4	CSW6	300	1"	12	18
CI-CSW6-83-4	CSW6	420	1"	12	18
CI-CSW6-84-4	CSW6	270	1"	12	18
CI-CSW6-99-4	CSW6	310	1"	12	18
CI-CSW6-113-4	CSW6	450	1"	12	18
CI-CSW6-114-4	CSW6	320	1"	12	18
CI-CSW7-47-4	CSW7	455	1"1/2	12	18
CI-CSW7-77-4	CSW7	525	1"1/2	12	18
CI-CSW7-108-4	CSW7	570	1"1/2	12	18
CI-CSW7-138-4	CSW7	570	1"1/2	12	18
CI-CSW8-74-4	CSW8	134	2"	12	18
CI-CSW8-104-4	CSW8	186	2"	12	18
CI-CSW8-135-4	CSW8	239	2"	12	18
CI-CSW8-165-4	CSW8	291	2"	12	18

**INTERCAMBIADORES AUTÓNOMOS AR/ÓLEO PARA CAUDAIS DE 30 A 50 L/M**  
**AUTONOMOUS HEAT EXCHANGERS AIR/OIL FLOWS FROM 30 TO 50 L/M**  
**INTERCAMBIADORES AUTÓNOMOS AIRE/ACEITE PARA CAUDALES DE 30 A 50 L/M**




Ref.	Type	Q (l/min.)		Rang.		Volt.	
CI-SRA1-22-A-47	SRA1	30	3/4	47	20	220 ac	30
CI-SRA1-38-A-47	SRA1	30	3/4	47	20	380 ac	30
CI-SRA2-22-A-47	SRA2	30	3/4	47	20	220 ac	30
CI-SRA2-38-A-47	SRA2	30	3/4	47	20	380 ac	30
CI-SRA3-22-A-47	SRA3	30	3/4	47	20	220 ac	30
CI-SRA3-38-A-47	SRA3	30	3/4	47	20	380 ac	30
CI-SRA4-22-A-47	SRA4	50	3/4	47	20	220 ac	30
CI-SRA4-38-A-48	SRA4	50	3/4	47	20	380 ac	30
CI-SRA5-22-A-47	SRA5	50	3/4	47	20	220 ac	30
CI-SRA5-38-A-47	SRA5	50	3/4	47	20	380 ac	30
CI-SRA6-22-A-47	SRA6	50	3/4	47	20	220 ac	30
CI-SRA6-38-A-47	SRA6	50	3/4	47	20	380 ac	30

**ACESSÓRIOS INTERCAMBIADORES / HEAT EXCHANGERS ACCESORIES /**  
**ACCESORIOS INTERCAMBIADORES**


**ELETROVENTOINHAS / ELECTRICAL FUNS / ELECTROVENTILADORES**





Ref.	Type		Volt.
CI-10701121	CSL05	167	12 dc
CI-10701131	CSL05	167	24 dc
CI-10700261	CSL05	170	220 ac
CI-10700251	CSL05	170	380 ac
CI-10701001	CLS1-CSL4	225	12 dc
CI-10701011	CLS1-CSL4	225	24 dc
CI-10700021	CLS1	200	220 ac
CI-10700011	CLS1	200	380 ac
CI-10701041	CSL2-CSL5-CSA5	255	12 dc
CI-10701051	CSL2-CSL5-CSA5	255	24 dc
CI-10700061	CSL2	250	220 ac
CI-10700051	CSL2	250	380 ac
CI-10701081	CSL3-CSA3-CSA4-CSA6	305	12 dc
CI-10701091	CSL3-CSA3-CSA4-CSA6	305	24 dc
CI-10700101	CSL3	300	220 ac
CI-10700091	CSL3	300	380 ac
CI-10700421	CSL4	400	220 ac
CI-10700151	CSL4-CSA10	400	380 ac
CI-10700171	CSL5-CSA5	450	380 ac
CI-10700131	CSA3-CSA4	350	380 ac
CI-10700401	CSA3-CSA4	350	220 ac
CI-10700191	CSA6-CSA12-CSA14	500	380 ac
CI-10700211	CSA7-CSA15-CSA16-CSA18-CSA22	560	380 ac
CI-10700231	CSA8-CSA20-CSA24	630	380 ac

**TERMOSTATOS (°C) / THERMOSTATS (°C) / TERMOSTATOS (°C)**





Ref.	Type	Long. (mm)		Rang.
CI-TF47	TF47		1/2	47°C
CI-TF60	TF60		1/2	60°C
CI-TR100	TR100	100	1/2	0-90°C
CI-TR200	TR200	200	1/2	0-90°C

**ACUMULADORES / ACCUMULATORS / ACUMULADORES****DE MEMBRANA / MEMBRANE ACCUMULATORS / DE MEMBRANA**

Ref.	Volum.	∅		
ACU04000000	0,35	70	M 18x1,5	250
ACU040000001	0,5	92	M 18x1,5	250
ACU040000002	0,75	92	M 18x1,5	250
ACU040000002.5	1	115	M 18x1,5	250
ACU040000003	1,4	115	M 18x1,5	250
ACU040000004	2	115	M 18x1,5	250

**DE BEXIGA /BLADDER ACCUMULATORS / DE VEJIGA**

Ref.	Volum.	∅		
ACU050000000	1,5	115	M 18x1,5	350
ACU050000001	2,5	114	1"1/4	350
ACU050000002	4,5	168	1"1/4	350
ACU050000003	6	168	1"1/4	350
ACU050000004	10	168	1"1/4	350
ACU050000005	20	223	2"	350
ACU050000006	25	223	2"	350
ACU050000007	35	223	2"	350
ACU050000008	50	223	2"	350


**ACESSÓRIOS / ACCESORIES / ACCESORIOS****ABRAÇADEIRAS (ACUMULADORES) / CLAMPS (ACCUMULATORS) / ABRAZADERAS (ACUMULADORES)**

Ref.	Type	∅
ACU060001	CR-114	114
ACU060002	CR-168	168
ACU060003	CR-223	223

**SUPORTES DE ACUMULADOR / ACCUMULATOR BRACKETS / MENSOLAS DE ACUMULADOR**

Ref.	Type	∅
ACU060101	MCR-168	168
ACU060102	MCR-223	223

**KITS DE RECARGA / CONTROL AND LOAD EQUIPMENTS / EQUIPOS DE CONTROL Y DE CARGA****KIT EQUIPAMENTO CONTROLE/CARREGA COM MANÔMETRO+FLEXÍVEL / CONTROL/LOAD TESTING UNIT WITH PRESSURE GAUGE+FLEXIBLE / MALETÍN EQUIPO CONTROL/CARGA CON MANÓMETRO+FLEXIBLE**

Ref.	Type		Rang.
ACU090001	AR 1.0	5/8"-UNF	0 a 6
ACU090002	AR 1.1	5/8"-UNF	0 a 16
ACU090003	AR 1	5/8"-UNF	0 a 40
ACU090004	AR 2	5/8"-UNF	0 a 60
ACU090005	AR 3	5/8"-UNF	0 a 100
ACU090006	AR 4	5/8"-UNF	0 a 160
ACU090007	AR 5	5/8"-UNF	0 a 250
ACU090008	AR 6	5/8"-UNF	0 a 400



ASSISTÊNCIA 24 HORAS

PORTO:

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