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PRODUCTION ACCESSORIES

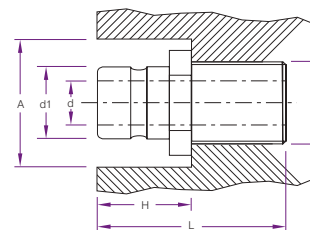
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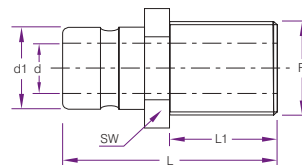


*Also available with internal valve, specify "V".

Product Code	Series	R (BSPT)	d1	d	H	A	L
CM251	200 Series	1/8	9.5	6	17	22	25
CM252		1/4	9.5	6	19	26	29
CM253		3/8	9.5	6	19	30	30
CM351	300 Series	1/8	13.5	6	25	26	35
CM352*		1/4	13.5	9	25	26	35
CM353*		3/8	13.5	9	26	30	38
CM354		1/2	13.5	9	28	37	42
CM552	500 Series	1/4	20	9	37	30	41
CM553		3/8	20	12	37	32	41
CM554		1/2	20	15	38	32	39
CM556		3/4	20	15	38	38	45

Male Brass/Teflon Connectors

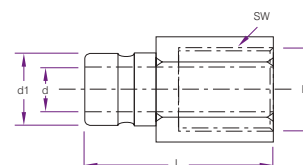
CONNECTOR FITTINGS AND HOSE



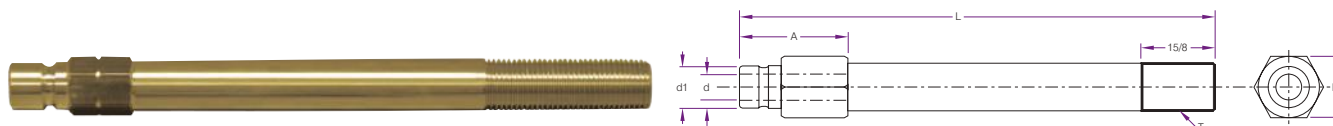
Product Code	Series	R (BSPT)	d	d1	L	L1	SW
CMT251	200 Series	1/8	9.5	6	24	9	13
CMT252		1/4	9.5	6	29	12	17
CMT253		3/8	9.5	6	30	12	19
CMT352	300 Series	1/4	13.5	9	34	12	17
CMT353		3/8	13.5	9	34	12	19
CMT354		1/2	13.5	9	39	17	24
CMT554	500 Series	1/2	20	15	44	17	22
CMT556		3/4	20	15	45	19	29

Female Brass Connectors

CONNECTOR FITTINGS AND HOSE



Product Code	Series	R (BSPT)	d1	d	L	SW
CM251F	200 Series	1/8	9.5	6	28	13
CM252F		1/4	9.5	6	32	17
CM253F		3/8	9.5	6	34	19
CM352F	300 Series	1/4	13.5	9	37	17
CM353F		3/8	13.5	9	39	19
CM354F		1/2	13.5	9	46	24



200 Series 1/4 Flow

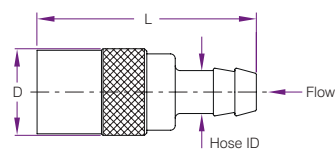
Product Code	L	T	d1	d	A
CM251212	2 1/2	1/8	9.5	6	11/16
CM2514	4	1/8	9.5	6	1
CM251512	5 1/2	1/8	9.5	6	1
CM2517	7	1/8	9.5	6	1
CM251812	8 1/2	1/8	9.5	6	1
CM252212	2 1/2	1/4	9.5	6	7/8
CM2524	4	1/4	9.5	6	1 1/4
CM252512	5 1/2	1/4	9.5	6	1 1/4
CM2527	7	1/4	9.5	6	1 1/4
CM252812	8 1/2	1/4	9.5	6	1 1/4
CM253212	2 1/2	3/8	9.5	6	1
CM2534	4	3/8	9.5	6	1 1/4
CM253512	5 1/2	3/8	9.5	6	1 1/4
CM2537	7	3/8	9.5	6	1 1/4

300 Series 3/8 Flow

Product Code	L	T	d1	d	A
CM351212	2 1/2	1/8	15.5	9	7/8
CM3514	4	1/8	15.5	9	1
CM351512	5 1/2	1/8	15.5	9	1
CM3517	7	1/8	15.5	9	1
CM351812	8 1/2	1/8	15.5	9	1
CM352212	2 1/2	1/4	15.5	9	7/8
CM3524	4	1/4	15.5	9	1 1/4
CM352512	5 1/2	1/4	15.5	9	1 1/4
CM3527	7	1/4	15.5	9	1 1/4
CM352812	8 1/2	1/4	15.5	9	1 1/4
CM35210	10	1/4	15.5	9	1 1/4
CM3534	4	3/8	15.5	9	1
CM353512	5 1/2	3/8	15.5	9	1 1/4
CM3537	7	3/8	15.5	9	1 1/4
CM35310	10	3/8	15.5	9	1 1/4



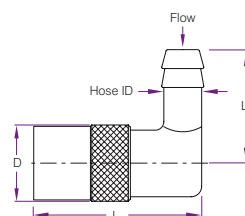
Product Code	Description
CM200	200 Series Viton
CM300-G	300 Series Viton
CM300-R	300 Series Silicone
CM500	500 Series Silicone



Product Code without Valve	Product Code with Valve	Hose ID	L	D	Series
CM206	CM206V	3/8	51mm	17	200
CM306	CM306V	3/8	64mm	23	300
CM308	CM308V	3/8	66.5mm	23	300
CM308SL	CM308VSL	3/8	73mm	23	300
CM506	CM506V	3/8	89mm	30	309

90° Socket Connectors

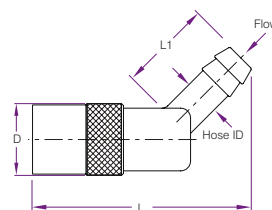
CONNECTOR FITTINGS AND HOSE



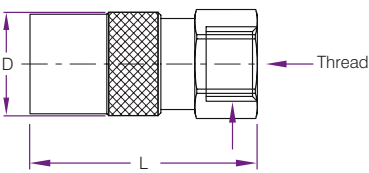
Product Code without Valve	Product Code with Valve	Hose ID	L	L1	D	Series
CM216	CM216V	3/8	40mm	22mm	17	200
CM318	CM318V	3/8	56mm	28.5mm	23	300
CM516	CM516V	3/8	77mm	32mm	30	500

45° Socket Connectors

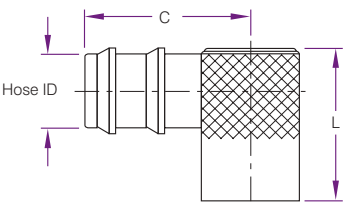
CONNECTOR FITTINGS AND HOSE



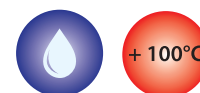
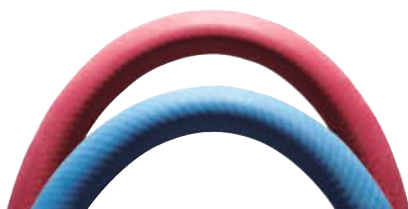
Product Code without Valve	Product Code with Valve	Hose ID	L	L1	D	Series
CM226	CM226V	3/8	55.5mm	22mm	18	200
CM328	CM328V	3/8	75mm	25mm	24	300
CM526	CM526V	3/8	77mm	30mm	32	500



Product Code without Valve	Product Code with Valve	Thread	L	D	Series
CMB200		1/4	40	18	200
CMB300	CMB300V	1/4	47	23	300
CMB500		1/2	52	30	500



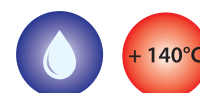
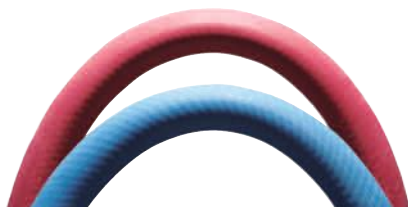
Product Code without Valve	Hose ID	L	C
WJ200-6	3/8	1	1 1/4
WJ300-6	9.5	1 7/16	1 9/16
WJ300-8	9.5	1 7/16	1 9/16



G Series:

Working Pressure: 15 Bar
 Burst Pressure: 60 Bar
 Working Temperature: +100°C
 Roll Length: 50M
 Crimping Service: Hose crimped to order.

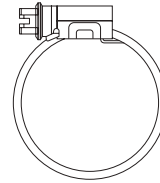
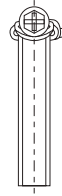
Product Code	Hose ID	OD	Colour
HOSE-G10B	10	16.5	Blue
HOSE-G10R	10	16.5	Red
HOSE-G13B	13	21	Blue
HOSE-G13R	13	21	Red
HOSE-G19B	19	27	Blue
HOSE-G19R	19	27	Red



E Series:

Working Pressure: 15 Bar
 Burst Pressure: 60 Bar
 Working Temperature: +140°C
 Roll Length: 50M
 Crimping Service: Hose crimped to order.

Product Code	Hose ID	OD	Colour
HOSE-E10B	10	16.5	Blue
HOSE-E10R	10	16.5	Red
HOSE-E13B	13	21	Blue
HOSE-E13R	13	21	Red



Manufactured using a solid stainless steel band with a rolled edge and smooth underside to prevent hose damage and deliver high strength for superior sealing.

Product Code	Size	Pack Qty
HC0816-PKT	6mm - 16mm	10 pcs
HC1320-PKT	13mm - 20mm	10 pcs
HC1524-PKT	15mm - 24mm	10 pcs
HC2238-PKT	22mm - 38mm	10 pcs



Product Code	Description	Pack Qty
TEF	1/2' Teflon Tape	10 pcs



Product Code	Description
TFP14-316	3/16 3-Way Tee Hose Joiner
TFP14-14	1/4 3-Way Tee Hose Joiner
TFP14-516	5/16 3-Way Tee Hose Joiner
TFP14-38	3/8 3-Way Tee Hose Joiner
TFP14-12	1/2 3-Way Tee Hose Joiner
TFP14-34	3/4 3-Way Tee Hose Joiner



Product Code	Description
TFP3-31618	3/16 Hose Tail x 1/8 Male BSP
TFP3-31614	3/16 Hose Tail x 1/4 Male BSP
TFP3-1418	1/4 Hose Tail x 1/8 Male BSP
TFP3-1414	1/4 Hose Tail x 1/4 Male BSP
TFP3-1438	1/4 Hose Tail x 3/8 Male BSP
TFP3-1412	1/4 Hose Tail x 1/2 Male BSP
TFP3-51618	5/16 Hose Tail x 1/8 Male BSP
TFP3-51614	5/16 Hose Tail x 1/4 Male BSP
TFP3-51638	5/16 Hose Tail x 3/8 Male BSP
TFP3-51612	5/16 Hose Tail x 1/2 Male BSP
TFP3-3818	3/8 Hose Tail x 1/8 Male BSP
TFP3-3814	3/8 Hose Tail x 1/4 Male BSP
TFP3-3838	3/8 Hose Tail x 3/8 Male BSP
TFP3-3812	3/8 Hose Tail x 1/2 Male BSP
TFP3-3834	3/8 Hose Tail x 3/4 Male BSP
TFP3-1218	1/2 Hose Tail x 1/8 Male BSP
TFP3-1214	1/2 Hose Tail x 1/4 Male BSP
TFP3-1238	1/2 Hose Tail x 3/8 Male BSP
TFP3-1212	1/2 Hose Tail x 1/2 Male BSP
TFP3-1234	1/2 Hose Tail x 3/4 Male BSP
TFP3-3438	3/4 Hose Tail x 3/8 Male BSP
TFP3-3412	3/4 Hose Tail x 1/2 Male BSP
TFP3-3410	3/4 Hose Tail x 1" Male BSP
TFP3-1034	1" Hose Tail x 3/4 Male BSP
TFP3-1010	1" Hose Tail x 1" Male BSP

Hose to Hose Joiner

CONNECTOR FITTINGS AND HOSE



Product Code	Description
TFP7-316	3/16 Hose Joiner
TFP7-14	1/4 Hose Joiner
TFP7-516	5/16 Hose Joiner
TFP7-38	3/8 Hose Joiner
TFP7-12	1/2 Hose Joiner
TFP7-34	3/4 Hose Joiner



Product Code	Description
TFP10-3814	3/8 Tail 1/4 Female BSP
TFP10-1214	1/2 Tail 1/4 Female BSP
TFP10-1238	1/2 Tail 3/8 Female BSP
TFP10-1212	1/2 Tail 1/2 Female BSP



Product Code	Thread
TF27-18	1/8 Male BSP Hexagonal Nipple
TF27-14	1/4 Male BSP Hexagonal Nipple
TF27-38	3/8 Male BSP Hexagonal Nipple
TF27-12	1/2 Male BSP Hexagonal Nipple
TF27-34	3/4 Male BSP Hexagonal Nipple
TF27-10	1" Male BSP Hexagonal Nipple



Product Code	Description
TF72-1818	1/8F x 1/8M Female to Male BSP Adaptor
TF72-1418	1/4F x 1/8M Female to Male BSP Adaptor
TF72-1414	1/4F x 1/4M Female to Male BSP Adaptor
TF72-3814	3/8F x 1/4M Female to Male BSP Adaptor
TF72-3838	3/8F x 3/8M Female to Male BSP Adaptor
TF72-1214	1/2F x 1/4M Female to Male BSP Adaptor
TF72-1238	1/2F x 3/8M Female to Male BSP Adaptor
TF72-1212	1/2F x 1/2M Female to Male BSP Adaptor
TF72-3412	3/4F x 1/2M Female to Male BSP Adaptor



Product Code	Description
TF24-1418	1/8M x 1/4 F Male to Female Reducing Bush
TF24-3818	3/8M x 3/8F Male to Female Reducing Bush
TF24-3814	3/8M x 1/4F Male to Female Reducing Bush
TF24-1214	1/2M x 1/4F Male to Female Reducing Bush
TF24-1238	1/2M x 3/8F Male to Female Reducing Bush
TF24-3414	3/4M x 1/4F Male to Female Reducing Bush
TF24-3438	3/4M x 3/8F Male to Female Reducing Bush
TF24-3412	3/4M x 1/2F Male to Female Reducing Bush
TF24-1012	1"M x 1/2F Male to Female Reducing Bush
TF24-1034	1"M x 3/4F Male to Female Reducing Bush



Product Code	Description
TF26-18	1/8 Female Hexagonal Socket
TF26-14	1/4 Female Hexagonal Socket
TF26-38	3/8 Female Hexagonal Socket
TF26-12	1/2 Female Hexagonal Socket
TF26-34	3/4 Female Hexagonal Socket



Product Code	Description
TF73-1418	1/4M - 1/8M Male to Male Reducing Nipple
TF73-3818	3/8M - 1/8M Male to Male Reducing Nipple
TF73-3814	3/8M - 1/4M Male to Male Reducing Nipple
TF73-1214	1/2M - 1/4M Male to Male Reducing Nipple
TF73-1238	1/2M - 3/8M Male to Male Reducing Nipple
TF73-3438	3/4M - 3/8M Male to Male Reducing Nipple
TF73-3412	3/4M - 1/2M Male to Male Reducing Nipple



Product Code	Thread
TF64-18	1/8 BSP Taper Plug
TF64-14	1/4 BSP Taper Plug
TF64-38	3/8 BSP Taper Plug
TF64-12	1/2 BSP Taper Plug
TF64-34	3/4 BSP Taper Plug
TF64-10	1" BSP Taper Plug



Product Code	Thread
TF33-18	1/8 Female BSP End Cap
TF33-14	1/4 Female BSP End Cap
TF33-38	3/8 Female BSP End Cap
TF33-12	1/2 Female BSP End Cap
TF33-34	3/4 Female BSP End Cap
TF33-10	1" Female BSP End Cap



Product Code	Thread
TF50-14	1/4 3-Way Male BSP Tee

Brass Pressure Plugs

CONNECTOR FITTINGS & HOSE



BSPT Brass/Stainless		
Product Code	Size	Height
PP10	1/8	0.250
PP20	1/4	0.406
PP40	3/8	0.406
PP60	1/2	0.531
PP80	3/4	0.531
PP100	1	0.656

NPT Brass		
Product Code	Size	Height
CBP05	1/16	0.254
CBP10	1/8	0.250
CBP20	1/4	0.406
CBP40	3/8	0.406
CBP60	1/2	0.531
CBP80	3/4	0.531
CBP100	1	61/93



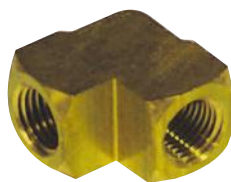
Product Code	Thread
TF37-14	1/4 Female BSP Cross



Product Code	Description
TF35-18	1/8 Female BSP Tee
TF35-14	1/4 Female BSP Tee
TF35-38	3/8 Female BSP Tee
TF35-12	1/2 Female BSP Tee
TF35-34	3/4 Female BSP Tee



Product Code	Description
TF25E-18-90	1/8 Male to Female 90° Elbow
TF25E-14-90	1/4 Male to Female 90° Elbow
TF25E-38-90	3/8 Male to Female 90° Elbow
TF25E-12-90	1/2 Male to Female 90° Elbow



Product Code	Description
TF34-18	1/8 Female 90° Elbow
TF34-14	1/4 Female 90° Elbow
TF34-38	3/8 Female 90° Elbow
TF34-12	1/2 Female 90° Elbow
TF34-34	3/4 Female 90° Elbow



Male to Male



Reducing Type

Product Code	Description
TF48-1818	1/8M - 1/8M Male to Male 90° Elbow
TF48-1414	1/4M x 1/4M Male to Male 90° Elbow
TF48-3838	3/8M x 3/8M Male to Male 90° Elbow
TF48-3814	3/8M x 1/4M Male to Male 90° Elbow



Product Code	Description
TF25E-18-45	1/8 Male to Female 45° Elbow
TF25E-14-45	1/4 Male to Female 45° Elbow
TF25E-38-45	3/8 Male to Female 45° Elbow
TF25E-12-45	1/2 Male to Female 45° Elbow



Product Code	Description
TF310-M2	310-Series Coupler with 1/8 Male BSP Thread
TF310-M4	310-Series Coupler with 1/4 Male BSP Thread
TF310-M6	310-Series Coupler with 3/8 Male BSP Thread
TF310-M8	310-Series Coupler with 1/2 Male BSP Thread



Product Code	Description
TF310-F4	310-Series Coupler with 1/4 Female BSP Thread
TF310-F6	310-Series Coupler with 3/8 Female BSP Thread
TF310-F8	310-Series Coupler with 1/2 Female BSP Thread



Product Code	Description
TF310-T4	310-Series Coupler with 1/4 Hose Tail
TF310-T6	310-Series Coupler with 3/8 Hose Tail
TF310-T8	310-Series Coupler with 1/2 Hose Tail

310 Series Air Snap on with Male BSP Thread

CONNECTOR FITTINGS AND HOSE



Product Code	Description
TF31-M2	310-Series Snap On with 1/8 Male BSP Thread
TF31-M4	310-Series Snap On with 1/4 Male BSP Thread
TF31-M6	310-Series Snap On with 3/8 Male BSP Thread
TF31-M8	310-Series Snap On with 1/2 Male BSP Thread

310 Series Air Snap on with Female BSP Thread

CONNECTOR FITTINGS AND HOSE



Product Code	Description
TF31-F4	310-Series Snap On with 1/4 Female BSP Thread
TF31-F6	310-Series Snap On with 3/8 Female BSP Thread



Product Code	Description
TF31T8	310-Series Snap On with 1/2 Hose Tail



Product Code	Description
JBG	Blow Gun (Red) Air Boy



Product Code	Description
PB-4-01	4mm x 1/8 BSPT Threaded Tee Push Fitting
PB-4-02	4mm x 1/4 BSPT Threaded Tee Push Fitting
PB-5-01	5mm x 1/8 BSPT Threaded Tee Push Fitting
PB-5-02	5mm x 1/4 BSPT Threaded Tee Push Fitting
PB-6-01	6mm x 1/8 BSPT Threaded Tee Push Fitting
PB-6-02	6mm x 1/4 BSPT Threaded Tee Push Fitting
PB-8-01	8mm x 1/8 BSPT Threaded Tee Push Fitting
PB-8-02	8mm x 1/4 BSPT Threaded Tee Push Fitting



Product Code	Description
PC-04-01	4mm x 1/8 BSPT Threaded Straight Push Fitting
PC-04-02	4mm x 1/4 BSPT Threaded Straight Push Fitting
PC-05-01	5mm x 1/8 BSPT Threaded Straight Push Fitting
PC-05-02	5mm x 1/4 BSPT Threaded Straight Push Fitting
PC-06-01	6mm x 1/8 BSPT Threaded Straight Push Fitting
PC-06-02	6mm x 1/4 BSPT Threaded Straight Push Fitting
PC-08-01	8mm x 1/8 BSPT Threaded Straight Push Fitting
PC-08-02	8mm x 1/4 BSPT Threaded Straight Push Fitting
PC-10-02	10mm x 1/4 BSPT Threaded Straight Push Fitting
PC-12-02	12mm x 1/4 BSPT Threaded Straight Push Fitting

Threaded 90° Push Fittings

CONNECTOR FITTINGS AND HOSE



Product Code	Description
PL-04-01	4mm x 1/8 BSPT Threaded 90° Push Fitting
PL-04-02	4mm x 1/4 BSPT Threaded 90° Push Fitting
PL-05-01	5mm x 1/8 BSPT Threaded 90° Push Fitting
PL-05-02	5mm x 1/4 BSPT Threaded 90° Push Fitting
PL-06-01	6mm x 1/8 BSPT Threaded 90° Push Fitting
PL-06-02	6mm x 1/4 BSPT Threaded 90° Push Fitting
PL-08-01	8mm x 1/8 BSPT Threaded 90° Push Fitting
PL-08-02	8mm x 1/4 BSPT Threaded 90° Push Fitting
PL-10-02	10mm x 1/4 BSPT Threaded 90° Push Fitting
PL-12-02	12mm x 1/4 BSPT Threaded 90° Push Fitting

Tee Push Fittings

CONNECTOR FITTINGS AND HOSE



Product Code	Description
PE-04	4mm O.D. Tube Push Fitting
PE-05	5mm O.D. Tube Push Fitting
PE-06	6mm O.D. Tube Push Fitting
PE-08	8mm O.D. Tube Push Fitting



Product Code	Description
PY-04	4mm O.D. Y Push Fitting
PY-05	5mm O.D. Y Push Fitting
PY-06	6mm O.D. Y Push Fitting
PY-08	8mm O.D. Y Push Fitting



Product Code	Description
PU-04	4mm Push-In Tube Connector
PU-06	6mm Push-In Tube Connector
PU-08	8mm Push-In Tube Connector
PU-10	10mm Push-In Tube Connector
PU-12	12mm Push-In Tube Connector



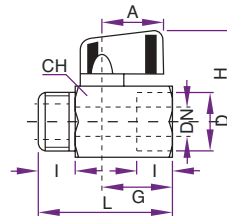
Product Code	Description
PVM-04	4mm Push-In Tube Elbow
PVM-06	6mm Push-In Tube Elbow
PVM-08	8mm Push-In Tube Elbow
PVM-10	10mm Push-In Tube Elbow
PVM-12	12mm Push-In Tube Elbow



Product Code	Description	Colour
PU0425-200-B	4mm Polyurethane Hose	Black
PU0425-200-U	4mm Polyurethane Hose	Blue
PU0530-200-U	5mm Polyurethane Hose	Blue
PU0604-200-B	6mm Polyurethane Hose	Black
PU0604-200-U	6mm Polyurethane Hose	Blue
PU0805-100-B	8mm Polyurethane Hose	Black
PU0805-100-U	8mm Polyurethane Hose	Blue
PU1065-100-B	10mm Polyurethane Hose	Black
PU1065-100-U	10mm Polyurethane Hose	Blue
PU1208-100-B	12mm Polyurethane Hose	Black
PU1208-100-U	12mm Polyurethane Hose	Blue

Mini Ball Valve - Male / Female

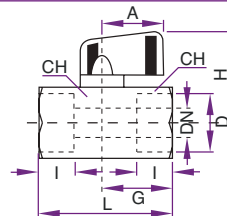
CONNECTOR FITTINGS AND HOSE



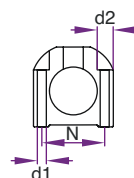
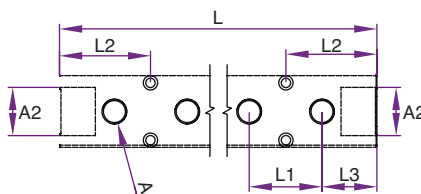
Part No.	Part No.	D	DN	I	L	G	A	H	CH
VMMF02R	VMMF02B	1/8"	5	10	41,5	22	22,5	31	21
VMMF04R	VMMF04B	1/4"	8	11	41,5	22	22,5	31	21
VMMF06R	VMMF06B	3/8"	8	11	41,5	22	22,5	31	21
VMMF08R	VMMF08B	1/2"	10	13	49	22	22,5	31	25

Mini Ball Valve - Female / Female

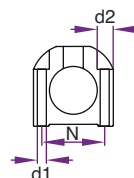
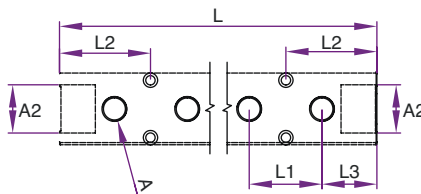
CONNECTOR FITTINGS AND HOSE



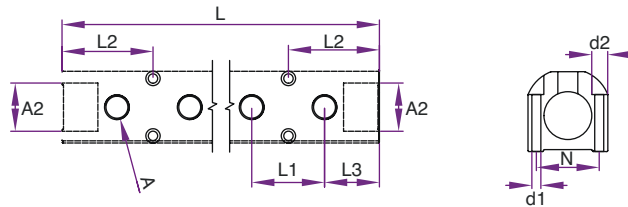
Part No.	Part No.	D	DN	I	L	G	A	H	CH
VM02R	VM02B	1/8"	6	10	41,5	22	22,5	31	21
VM04R	VM04B	1/4"	8	11	41,5	22	22,5	31	21
VM06R	VM06B	3/8"	8	11	41,5	22	22,5	31	21
VM08R	VM08B	1/2"	10	13	49	26	22,5	31	25



Part No.	Colour	Ports	A(BSPP)	A2(BSPP)	L2	L3	L1	d1	d2	N	L
IM3-4-1/4-R	Red	4	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	109,5
IM3-4-1/4-B	Blue	4	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	190,5
IM3-6-1/4-R	Red	6	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	266,7
IM3-6-1/4-B	Blue	6	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	266,7
IM3-8-1/4-R	Red	8	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	342,9
IM3-8-1/4-B	Blue	8	1/4"	3/4"	57,2	38,1	38,1	4,5	8	31	342,9



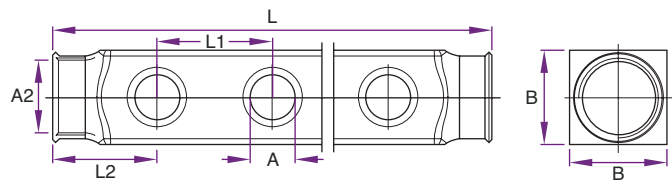
Part No.	Colour	Ports	A(BSPP)	A2(BSPP)	L2	L3	L1	d1	d2	N	L
IM4-4-1/4-R	Red	4	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	190,5
IM4-4-1/4-B	Blue	4	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	190,5
IM4-4-3/8-R	Red	4	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	228,6
IM4-4-3/8-B	Blue	4	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	228,6
IM4-6-1/4-R	Red	6	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	226,7
IM4-6-1/4-B	Blue	6	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	226,7
IM4-6-3/8-R	Red	6	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	330,2
IM4-6-3/8-B	Blue	6	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	330,2
IM4-8-1/4-R	Red	8	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	342,9
IM4-8-1/4-B	Blue	8	1/4"	1"	63,5	38,1	38,1	7	10,5	40,6	342,9
IM4-8-3/8-R	Red	8	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	431,8
IM4-8-3/8-B	Blue	8	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	431,8
IM4-10-3/8-R	Red	10	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	533,4
IM4-10-3/8-B	Blue	10	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	533,4
IM4-12-3/8-R	Red	12	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	635
IM4-12-3/8-B	Blue	12	3/8"	1"	63,5	38,1	38,1	7	10,5	40,6	635



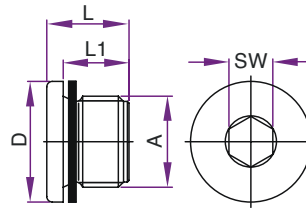
Part No.	Colour	Ports	A(BSPP)	A2(BSPP)	L2	L3	L1	d1	d2	N	L
IM6-4-1/2-R	Red	4	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	254
IM6-4-1/2-B	Blue	4	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	254
IM6-6-1/2-R	Red	6	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	355,6
IM6-6-1/2-B	Blue	6	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	355,6
IM6-8-1/2-R	Red	8	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	457,2
IM6-8-1/2-B	Blue	8	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	457,2
IM6-10-1/2-R	Red	10	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	558,8
IM6-10-1/2-B	Blue	10	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	558,8
IM6-12-1/2-R	Red	12	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	660,4
IM6-12-1/2-B	Blue	12	1/2"	1-1/2"	76,2	50,8	50,8	7	10,5	57	660,4

Stainless Steel Manifolds

CONNECTOR FITTINGS AND HOSE



Product Code	Ports	A (BSPP)	A2 (BSPP)	L	L1	L2	B
SSIM4-4-1/2	4	1/2"	1"	240	50	45	40
SSIM4-6-1/2	6	1/2"	1"	340	50	45	40
SSIM4-8-1/2	8	1/2"	1"	440	50	45	40
SSIM4-10-1/2	10	1/2"	1"	540	50	45	40
SSIM4-12-1/2	12	1/2"	1"	640	50	45	40
SSIM5-4-1/2	4	1/2"	1-1/4"	240	50	45	50
SSIM5-6-1/2	6	1/2"	1-1/4"	340	50	45	50
SSIM5-8-1/2	8	1/2"	1-1/4"	440	50	45	50
SSIM5-10-1/2	10	1/2"	1-1/4"	540	50	45	50
SSIM5-12-1/2	12	1/2"	1-1/4"	640	50	45	50



Part No.	A	D	L	L1	SW	VPE
DR3/4	G3/4"	32	21	16	12	1
DR1	G1"	40	22,5	16	17	1
DR1-1/2*	G1-1/2"	55	22,5	16	24	1

* With O-Ring



Product Code	Type
SS-Bracket	1"
SS-5-Bracket	1-1/4"

Water flow manifold
Individual zones sold separately
Flow meter gauge
Water temperature gauge



Product Code	A	Main Connection	Max Temp	Zone	Zone Connect
FSM-100	81	3/4	100	1	1/2
FSM-200	130	3/4	100	2	1/2
FSM-300	185	3/4	100	3	1/2
FSM-400	245	3/4	100	4	1/2
FSM-600	358	3/4	100	6	1/2
FSM-800	468	3/4	100	8	1/2
FSM-1000	580	3/4	100	10	1/2
FSM-1200	690	3/4	100	12	1/2



Product Code	Type
PIM1BX10	10 Amp Unit

Multi Zone Temperature Control Systems

TEMPERATURE CONTROL AND PLUGS



16 to 48 Zone Mainframes are also available to order.
30 Amp option also available.
Modules sold separately.

Product Code	Description
MFFMP2	2 Zone Mainframe
MFFMP3	3 Zone Mainframe
MF5	5 Zone Mainframe
MF8	8 Zone Mainframe
MF12	12 Zone Mainframe

RMA Modular Hot Runner Controllers

TEMPERATURE CONTROL AND PLUGS



RMA Module

- Simultaneous digital setpoint and digital temperature indication.
- Accepts Type J or Type K thermocouple input (jumper selectable).
- Auto-tuning, with adjustable proportional band and rate.
- Bumpless auto/manual transfer.
- CompuStep bakeout feature prevents moisture at start-up.
- Built-in loop break, short, open, and reverse thermocouple protection.
- Jumper-selectable self-start mode.
- Current monitor feature displays average current to load.
- CE-compliant.

Product Code
RMAX15



5 pin combination Thermocouple/Power Cable.

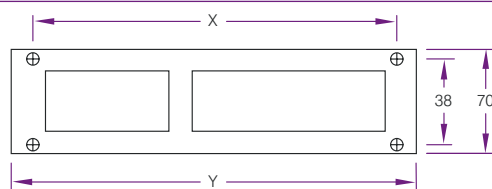
Product Code	Length
MPTC10	10'
MPTC20	20'



Product Code	Zones	Length
MPC5C10	5 Zones	10'
MPC5C20	5 Zones	20'
MPC8C10	8 Zones	10'
MPC8C20	8 Zones	20'
MPC12C10	12 Zones	10'
MPC12C20	12 Zones	20'



Product Code	Zones	Length
TC5C10	5 Zones	10'
TC5C20	5 Zones	20'
TC8C10	8 Zones	10'
TC8C20	8 Zones	20'
TC12C10	12 Zones	10'
TC12C20	12 Zones	20'



Mould Mounting Footprint

Product Code	Zones	X	Y
PTC5TB	5 Zones	204	220
PTC8TB	8 Zones	224.6	240.5
PTC12TB	12 Zones	251.6	267.5

Thermocouple Connectors

TEMPERATURE CONTROL AND PLUGS



Product Code	Description	Zones
MTC5	Mould Thermocouple Connector	5 Zones
MTC8	Mould Thermocouple Connector	8 Zones
MTC12	Mould Thermocouple Connector	12 Zones

Mould Power Input Connectors

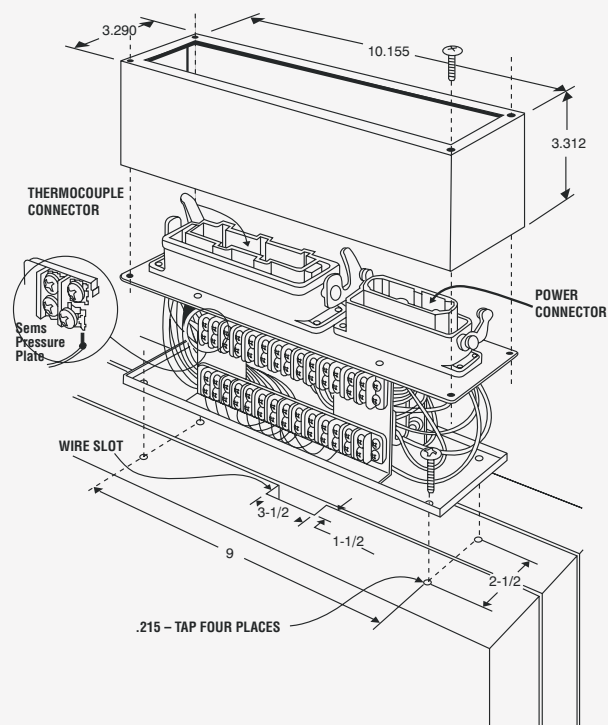
TEMPERATURE CONTROL AND PLUGS



Product Code	Description	Zones
PIC5	Mould Power Connector	5 Zones
PIC8	Mould Power Connector	8 Zones
PIC12	Mould Power Connector	12 Zones



1. The terminal blocks are completely prewired to both the Power and Thermocouple Connectors.
2. Terminal blocks are numbered by MOLD ZONE for ease of installation and troubleshooting.
3. Feed the wires from the mold wire slot through the opening(s) in the bottom of the Mold Wiring System. Slide the mold wires under the SEMS pressure plate on the appropriate zone-numbered terminal.
4. The RED and WHITE wires are the THERMOCOUPLE SIDE. Install thermocouple wire from the mold. + (White/ upper) -(Red/lower) to the corresponding zone number on the upper and lower terminal blocks.
5. Install the POWER wires on the opposite two terminal blocks marked Power side to corresponding number on the terminal blocks, one to upper and one to lower.
6. Place the cover over the Mold Wiring System and tighten with the four screws supplied.



Product Code	Zones	Length Y	Width X	Height H	Mounting Hole M1	Mounting Hole M2
PTBC005-A	5 zones	8.66"	2.75"	4.50"	1.500	8.031
PTBC008-A	8 zones	9.47"	2.75"	4.50"	1.500	8.843
PTBC012-A	12 zones	10.53"	2.75"	4.50"	1.500	9.906



Product Code	Amps
ABC10	10
ABC15	15



Product Code	Amps
HWCC-1	15
HWCC-2	30

Blank Panel

TEMPERATURE CONTROL AND PLUGS



Must be used to cover unused zones in main frames. Supplied with push-pull panel fasteners.

Product Code
MFBP

Universal Floor Stand

TEMPERATURE CONTROL AND PLUGS



Product Code	Zones
MFS5812	Adjustable for 5, 8 & 12 zone



Product Code	Description
CKPTM-1	5-Pin Combo Mold Power/ Thermocouple Male Connectors
CKPTM-1-Metal	5-Pin Combo Mold Power/ Thermocouple Male Connectors



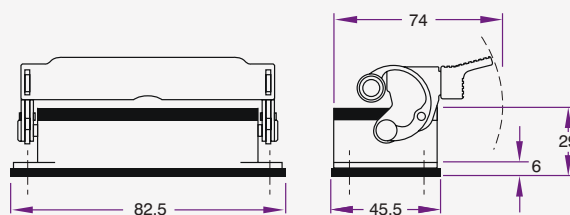
Product Code	Description
CKPTOC-1	5-Pin Combo Mold Power/ Thermocouple Female Connectors
CKPTOC-1-Metal	5-Pin Combo Mold Power/ Thermocouple Female Connectors



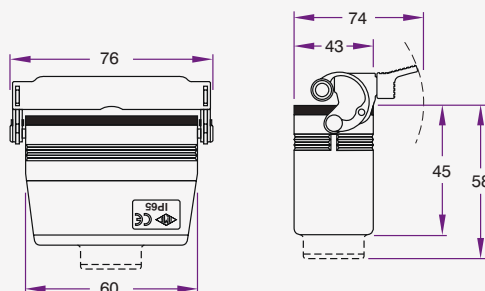
Product Code	Description
CKPTF-1	5-Pin Combo Mold Power/ Thermocouple Female Connectors
CKPTF-1-Metal	5-Pin Combo Mold Power/ Thermocouple Female Connectors



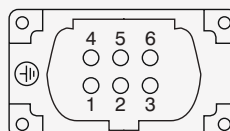
Product Code	Description
CKPTIC-1	5-Pin Combo Mold Power/ Thermocouple Male Connectors
CKPTIC-1-Metal	5-Pin Combo Mold Power/ Thermocouple Male Connectors



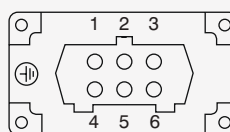
Product Code	Description
CHI06L	6 Pin Multipole Connector Housing



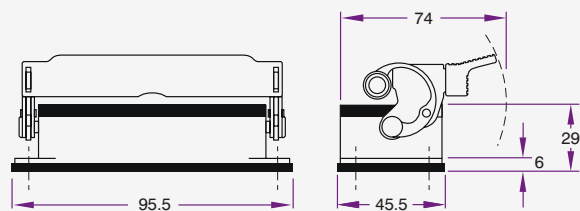
Product Code	Description
MGV06LG25	6 Pin Multipole Connector Cable Housing



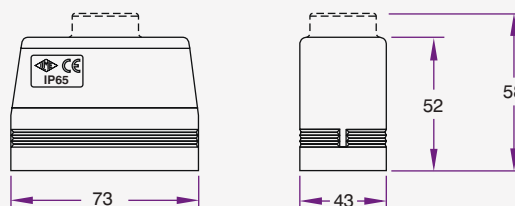
Product Code	Description
CNEM06T	6 Pin Multipole Connector Male Insert 16 Amp 400 Volt



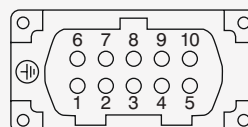
Product Code	Description
CNEF06T	6 Pin Multipole Connector Female Insert 16 Amp 400 Volt



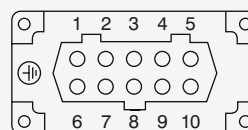
Product Code	Description
CHI10L	10 Pin Multipole Connector Housing



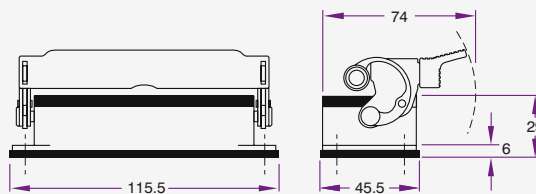
Product Code	Description
MAV10L32	10 Pin Multipole Connector Cable Housing



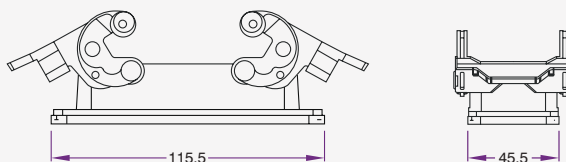
Product Code	Description
CNEF10T	10 Pin Multipole Connector Male Insert 16 Amp 400 Volt



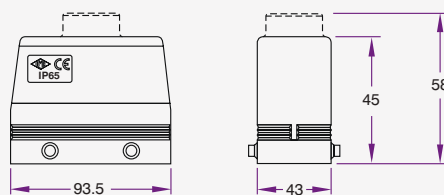
Product Code	Description
CNEF10T	10 Pin Multipole Connector Female Insert 16 Amp 400 Volt



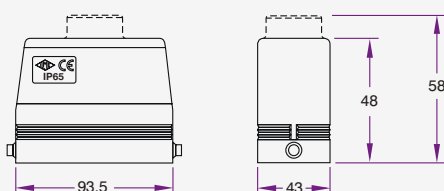
Product Code	Description
CHI16L	16 Pin Multipole Connector Single Lever Housing



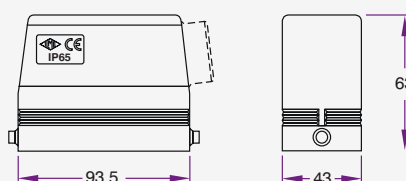
Product Code	Description
CHI16	16 Pin Multipole Connector Double Lever Housing



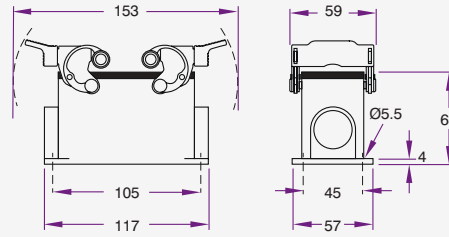
Product Code	Description
MHV16.25	16 Pin Multipole Connector Double Lever Cable Housing



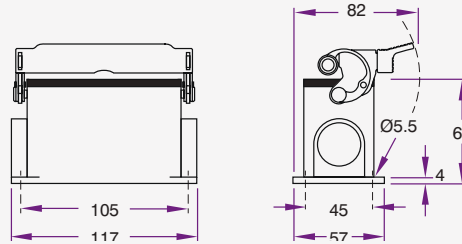
Product Code	Description
MHV16L25	16 Pin Multipole Connector Single Lever Cable Housing



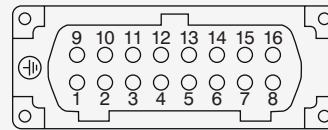
Product Code	Description
MHO16L25	16 Pin Multipole Connector Single Lever Cable Housing Side Entry



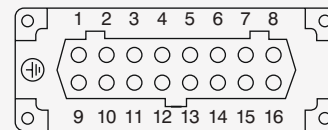
Product Code	Description
MHP16.225	16 Pin Multipole Connector Double Lever High Housing



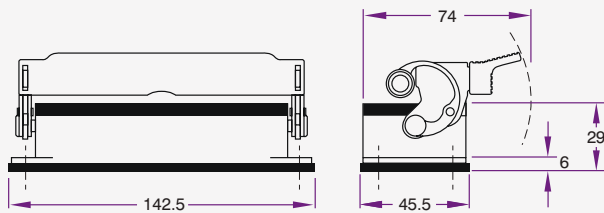
Product Code	Description
MHP16L225	16 Pin Multipole Connector Single Lever High Housing



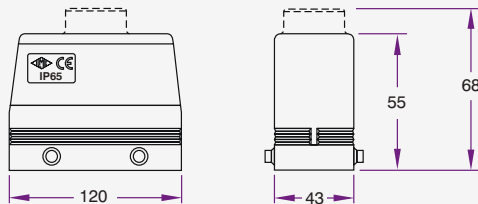
Product Code	Description
CNEM16T	16 Pin Multipole Connector Male Insert 16 Amp 400 Volt



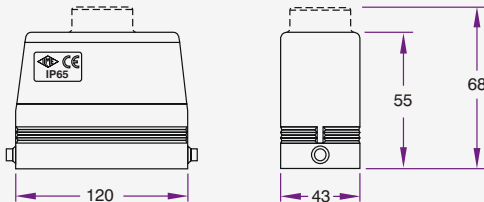
Product Code	Description
CNEF16T	16 Pin Multipole Connector Female Insert 16 Amp 400 Volt



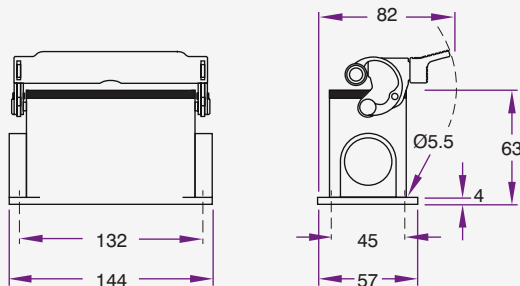
Product Code	Description
CHI24L	24 Pin Multipole Connector Single Lever Housing



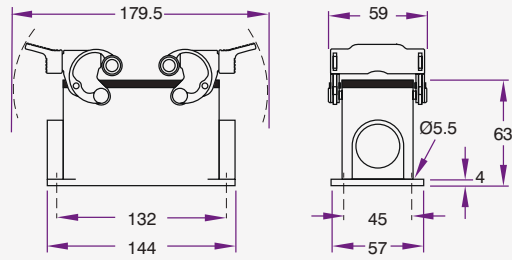
Product Code	Description
MHV24.32	24 Pin Multipole Connector Double Lever Cable Housing



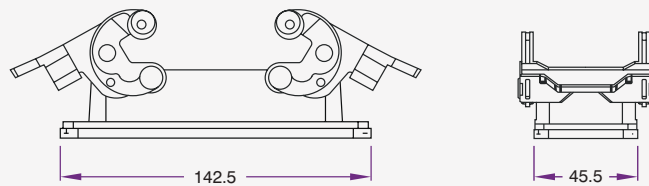
Product Code	Description
MHV24L32	24 Pin Multipole Connector Single Lever Cable Housing



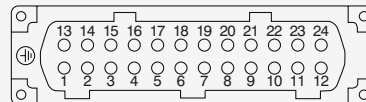
Product Code	Description
MHP24L225	24 Pin Multipole Connector Single Lever High Housing



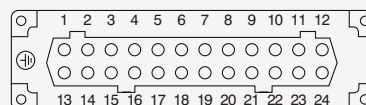
Product Code	Description
MHP24225	24 Pin Multipole Connector Double Lever High Housing



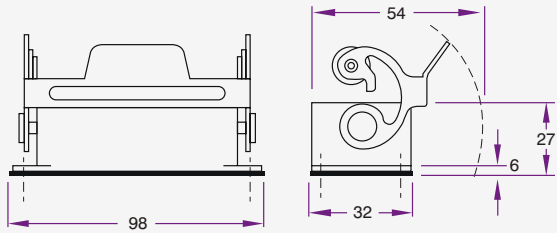
Product Code	Description
CHI24	24 Pin Multipole Connector Double Lever Housing



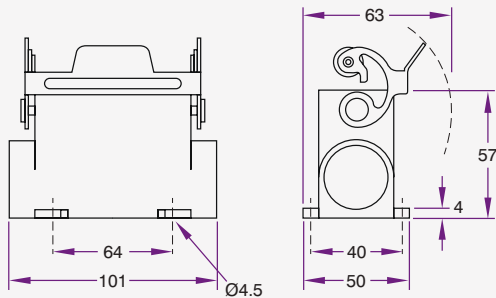
Product Code	Description
CNEM24T	24 Pin Multipole Connector Male Insert 16 Amp 400 Volt



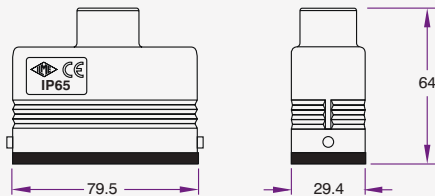
Product Code	Description
CNEF24T	24 Pin Multipole Connector Female Insert 16 Amp 400 Volt



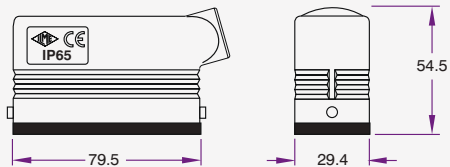
Product Code	Description
CZI25L	25 Pin Multipole Connector Single Lever Housing



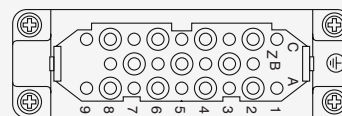
Product Code	Description
MZAP25L225	25 Pin Multipole Connector Single Lever Housing Side Entry



Product Code	Description
MZAV25L25	25 Pin Multipole Connector Single Lever Cable Housing

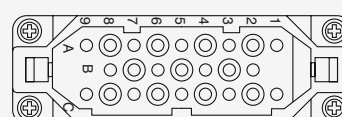


Product Code	Description
MZO25L20	25 Pin Multipole Connector Single Lever Cable Housing Side Entry



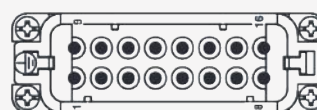
Pins Sold Separately

Product Code	Description
CDF25	25 Pin Multipole Connector Female Insert 16 Amp 400 Volt (Crimp)
CDFA1.5	Female Pins for CDF25

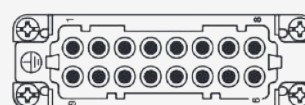
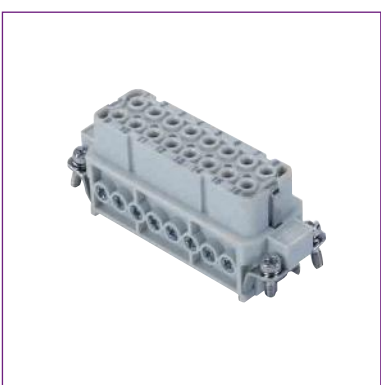


Pins Sold Separately

Product Code	Description
CDM25	25 Pin Multipole Connector Male Insert 16 Amp 400 Volt (Crimp)
CDMA1.5	Male Pins for CDM25



Product Code	Description
CDAM16	16 Pin Multipole Connector Male Insert 16 Amp 400 Volt



Product Code	Description
CDAF16	16 Pin Multipole Connector Female Insert 16 Amp 400 Volt

- Low profile flexible leads
- Premium MICA insulation
- Stainless bands



- Welded style made to order
- Other sizes made to order

Product Code	D	L	Watts
BH2525	25	25	125w
BH2538	25	38	150w
BH3030	30	30	150w
BH3040	30	40	180w
BH3075	30	75	300w
BH3225	32	25	115w
BH3232	32	32	150w
BH3238	32	38	180w
BH3250	32	50	250w
BH3275	32	75	300w
BH3538	35	38	200w
BH3838	38	38	200w
BH3850	38	50	300w
BH3875	38	75	400w
BH4030	40	30	200w
BH4038	40	38	220w
BH4060	40	60	300w
BH4090	40	90	350w
BH5038	50	38	250w
BH5050	50	50	400w
BH5075	50	75	600w
BH6060	60	60	275w

Premium Band Heaters

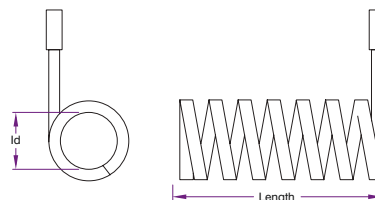
HEATERS AND THERMOCOUPLES

- Brass tubular sheath
- Tear-resistant connection of power cable



- Standard cable outlet: Axial 45°
- Special sizes to order

Product Code	D	L	Watts
PRMX-2525	25	25	85w
PRMX-2535	25	35	125w
PRMX-3030	30	30	160w
PRMX-3040	30	40	165w
PRMX-3238	32	38	195w
PRMX-3540	35	40	195w
PRMX-3838	38	38	215w
PRMX-3850	38	50	300w
PRMX-4030	40	30	160w
PRMX-4040	40	40	225w
PRMX-4060	40	60	305w
PRMX-5050	50	50	350w
PRMX-6060	60	60	505w

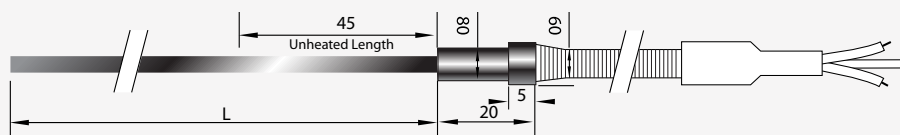
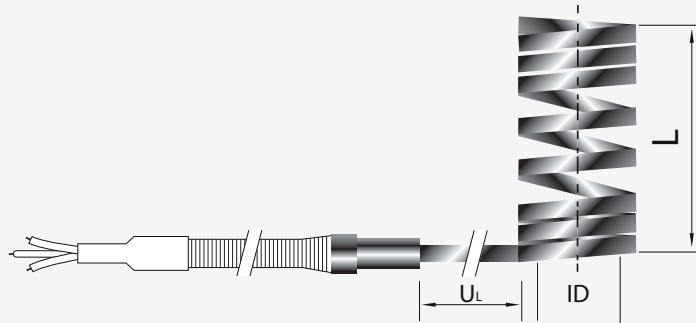


Nozzle Heater Wattage and Length

Product Code	Length	Watts	Id
X13045H	38.8	220w	16
X13055H	48.8	230w	16
X13065H	58.8	240w	16
X13075H	68.8	250w	16
X13095H	88.8	275w	16
X13115H	108.8	300w	16
X13145H	138.8	330w	16
X13175H	168.8	365w	16
X16045H	37.8	290w	18.1
X16055H	47.8	310w	18.1
X16065H	57.8	335w	18.1
X16075H	67.8	360w	18.1
X16095H	87.8	385w	18.1
X16115H	107.8	410w	18.1
X16145H	137.8	440w	18.1
X16175H	167.8	475w	18.1
X19055H	45.5	400w	21.5
X19065H	55.3	435w	21.5
X19075H	65.3	470w	21.5
X19095H	85.3	505w	21.5
X19115H	105.3	540w	21.5
X19145H	135.3	575w	21.5
X19175H	165.3	610w	21.5
X27075H	60.4	570w	30.3
X27095H	80.4	680w	30.3
X27115H	100.4	780w	30.3
X27145H	103.4	815w	30.3
X27175H	160.4	850w	30.3
X27225H	210.4	905w	30.3
X27275H	260.4	960w	30.3



Made to order from stock with and without thermocouple.
Manufactured in-house, specify ID and length.



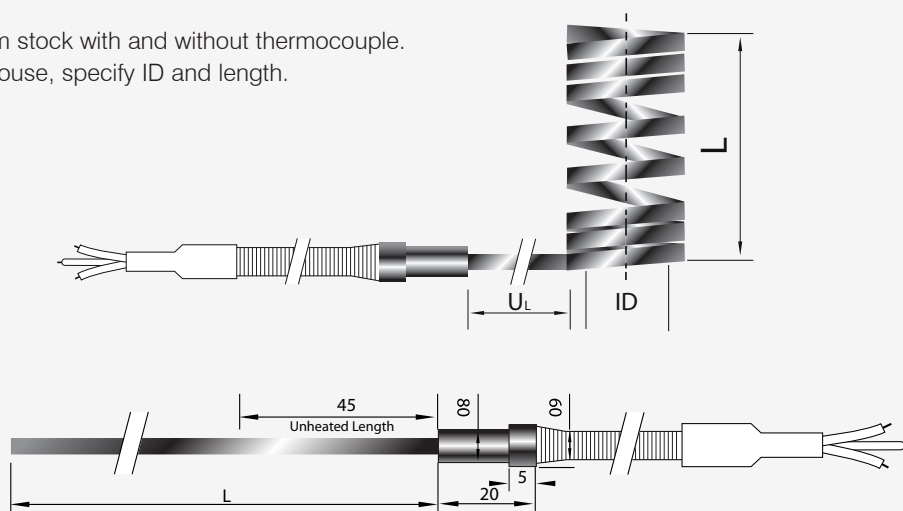
Custom Nozzle Heater Wattage and Length

Product Code	Length	Watts	Width x Thickness	with / without Thermocouple
RLXS003268	450mm	350W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003267	400mm	300W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003265	300mm	200W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003269	500mm	400W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003271	700mm	450W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003270	600mm	425W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003264	250mm	175W	1.8 W x 3.2 Thicknss	No Thermocouple
RLXS003266	350mm	250W	1.8 W x 3.2 Thicknss	No Thermocouple

More Options continues Next Page



Made to order from stock with and without thermocouple.
Manufactured in-house, specify ID and length.



Custom Nozzle Heater Wattage and Length

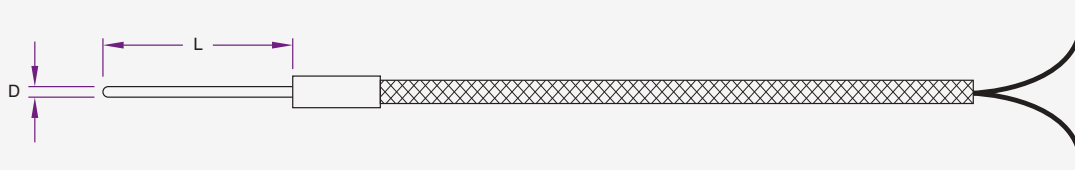
Product Code	Length	Watts	Width x Thickness	with / without Thermocouple
SPRC000006	550mm	350W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000002	350mm	210W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000004	450mm	280W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000007	600mm	385W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000011	1000mm	660W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000005	500mm	315W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000003	400mm	250W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000009	800mm	525W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000008	700mm	450W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000012	1200mm	800W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000010	900mm	600W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000001	300mm	175W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000016	1650mm	1100W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000018	1800mm	1200W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRC000014	1400mm	1000W	4.2 W x 2.2 Thicknss	Heater with Thermocouple
SPRX000014	1400mm	1000W	4.2 W x 2.2 Thicknss	No Thermocouple
SPRX000018	1800mm	1200W	4.2 W x 2.2 Thicknss	No Thermocouple
SPRX000010	900mm	600W	4.2 W x 2.2 Thicknss	No Thermocouple
SPRX000012	1200mm	800W	4.2 W x 2.2 Thicknss	No Thermocouple
SPRX000011	1000mm	660W	4.2 W x 2.2 Thicknss	No Thermocouple
SPRX000009	800mm	525W	4.2 W x 2.2 Thicknss	No Thermocouple

**Made to Order**

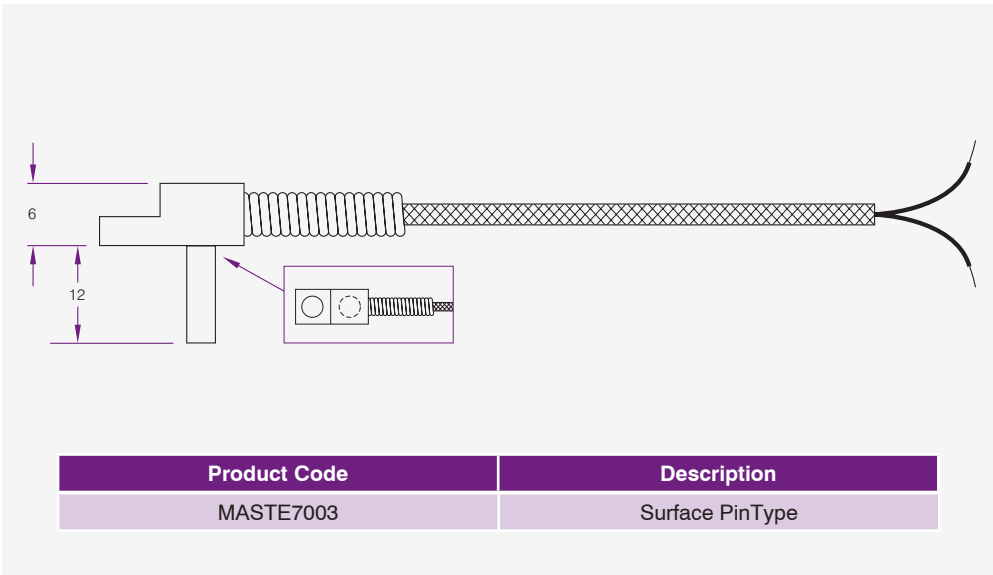
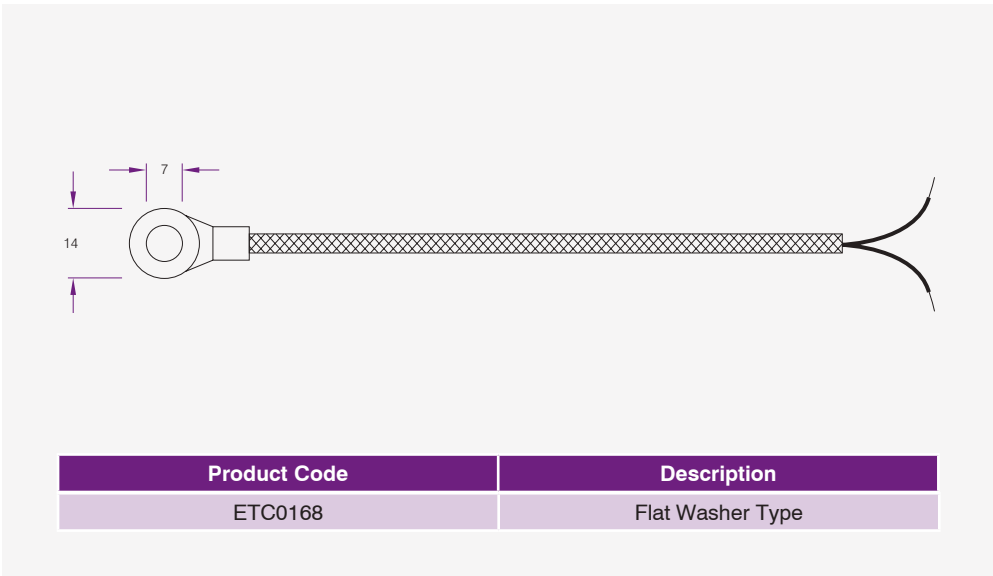
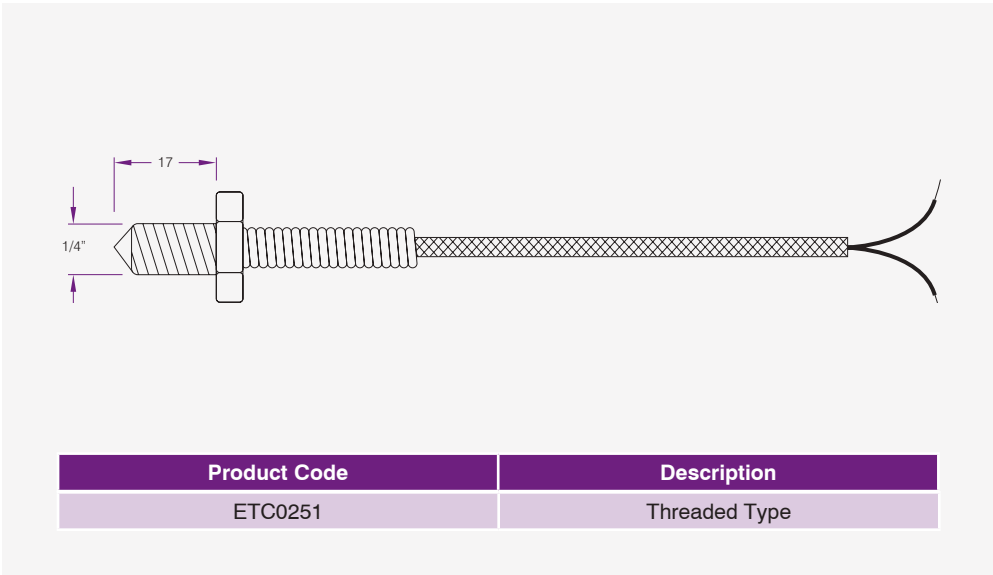
Band and Barrel Heaters made to your requirements. Ask for your special heater form to fill in.

Thermocouples J Type

HEATERS AND THERMOCOUPLES



Product Code	D	L
XTCG1X060	1mm	60mm
XTCG1X090	1mm	90mm
XTCG1X120	1mm	120mm
XTCG1X150	1mm	150mm
XTCG1X180	1mm	180mm
XTCG1X200	1mm	200mm
MASMT6015TC	1.5mm	60mm
MASMT12015TC	1.5mm	120mm
MASMT25015TC	1.5mm	250mm
MASMT30015TC	1.5mm	300mm
MASMT35015TC	1.5mm	350mm





Reduce Your Power Consumption with Custom Made Insulation Blankets



UniVest®: For Plastic Processors

UniVest® insulation jackets provide a low-cost solution for reducing energy costs, and shortening start-up time between jobs by retaining heat inside barrels, extruders, dies and hoses. This will lower the ambient temperature in your facility, and lower the overhead cost for equipment operations and air conditioning.

Features

- High temperature strap and buckle fastening system
- PTFE coated exterior
- Withstand temperatures up to 1200°F
- High density ceramic fiber insulation

Benefits

- Improves equipment process
- Protects employees and equipment
- No equipment downtime
- Simple and quick installation
- Reduces energy consumption
- 100% Asbestos free





A heavy duty formulation designed to clean injection mould, tools and dies after production runs and prior to commencement of new jobs.

Product Code	Size
DIECLEANER	400g Aerosol



A heavy duty formulation designed to protect tools, injection moulds and dies from oxidization and rusting during storage in between production runs.

Penetrates tools and mould removes moisture from cavities and mould. Leaves a protective film of lubrication oils and a rust preventative coating.

Product Code	Size
DIEPROTECTOR	400g Aerosol



A proven release agent to prevent sticking in mould cavities

Product Code	Size
SILICONEMOULD	400g Aerosol



A premium quality release agent which enables plastic parts to be printed, painted, hot stamped, vacuum plated and metalised

Product Code	Size
PAINTABLEMOULD	400g Aerosol



Zap-Ox Stain Remover.
Removes all rust, oxidation, buildup, stains, weld discoloration and more.

Product Code	Size
NANO-ZO-16	475ml Bottle

Ceramic Extreme Anti Seize Paste

RELEASES, PROTECTORS AND CLEANERS



A high-temperature anti-seizing compound with high thermal conductivity for cartridge heaters and nozzle threads.

Product Code	Size
ANTISEIZE-500	500g Tin

Foodmax Grade Cleaner Degreaser Spray
Foodmax Clean Spray

RELEASES, PROTECTORS AND CLEANERS



Foodmax Clean Spray is a food grade cleaner degreaser. This non-toxic formulation has been formulated to effectively clean grease and oil residue, formulated from a citrus oil derivative which is non-toxic, non-caustic, biodegradable and can be used safely with minimal protective equipment.

Product Code	Size
FM-CLEANSPRAY-040	400g Aerosol

Food Grade Chain Spray
Foodmax Multi Spray

RELEASES, PROTECTORS AND CLEANERS



Foodmax Multi Spray is a totally waterproof tacky chain spray that contains food grade synthetic fluid and PTFE lubricant that endures aggressive environments and create a strong shear-stable lubrication film. Suitable for a broad range of applications including chains, conveyers, slides, joints, etc.

Product Code	Size
FM-MULTISPRAY-040	400g Aerosol

RELEASES, PROTECTORS AND CLEANERS

Food Grade Penetrating Spray Foodmax DWF Spray



Foodmax DWF spray is a non-toxic lubricating, penetrating and de-watering lubricant and is ideal for use on lightly loaded chains, bearings and slides in food and clean environments. Working temperature -30 °C to 145 °C.

Product Code	Pack Description
FM-DWFSPRAY-040	400g Aerosol

RELEASES, PROTECTORS AND CLEANERS

Food Grade Silicone Spray Foodmax Silicone Spray



A food grade, silicone based, anti-adherent and lubricating fluid with a very high temperature resistance. Great for packaging transport lines and for low load applications. Also suitable as anti adherent for any type of equipment, demoulding of all type of plastics and rubbers and surface polisher.

Product Code	Pack Description
FM-SILICONESPRAY-040	400g Aerosol

RELEASES, PROTECTORS AND CLEANERS

Food Grade Grease CAS Spray Foodmax Grease CAS



H-1 approved for use in food processing equipment where incidental contact with food may occur. They are designed to provide superior performance at low and elevated temperatures (-40°C~200°C) and during periods of infrequent lubrication in food processing applications. Foodmax Grease CAS can be used for general lubrication, slide ways, chains and high load bearings in the food industry.

Product Code	Pack Description
FM-GREASESPRAY-040	400g Aerosol

RELEASES, PROTECTORS AND CLEANERS

Food Grade Lubricating White Oil Spray Foodmax Easy Spray



Foodmax Easy Spray can be used as a general lubricant as a non sticky chain oil, bearings and slides with low load, a food grade mould release, hinges and as a cleaning and conserving agent for stainless steel. Foodmax Easy Spray can be used as a food grade mould release oil as well.

Product Code	Pack Description
FM-EASYSPRAY-040	400g Aerosol



Foodmax Clean E spray is a powerful, fast drying cleaner, ideal for cleaning electronic equipment and components in and around food processing areas, such as control panels, electric motors, electrical contacts and switches.

Product Code	Pack Description
FM-CLEANESPRAY-040	400g Aerosol

Nano Mould Coating

RELEASES, PROTECTORS AND CLEANERS



Releases plastic parts for up to 300,000 cycles, part design dependant.
Reduces cycle times, semi permanent.

Product Code
NANO-FG-10ML-KIT

CRC 5.56 Multi Spray

RELEASES, PROTECTORS AND CLEANERS



The professionals choice. CRC 5.56 multipurpose product has superior penetrating power, that breaks through rust and corrosion while it cleans away scale and dirt.

Also available in 175gm, 500m, 1 litre, 200 litres

Product Code	Pack Description
CRC-5.56CAN	400g Aerosol
CRC-5.564LT	4 Litre
CRC-5.5620LT	20 Litre Drum

Performance X3

RELEASES, PROTECTORS AND CLEANERS



Performance X3 utilises a blend of synthetic fluids to transport M-FLON to critical bearing surfaces protecting them from wear and corrosion.

Applications:

- Lubricates and protects chains cables slides
- Protects against corrosion
- Penetrates and frees seized components
- Removes residues from old lubricants

Product Code	Pack Description
MAT-PERFORM-X3 040	500ml Aerosol



Extremely good absorption ability and capacity for all types of organic fluids, i.e. motor oils, hydraulic oils, gear oils, organic solvents, diesel oil, petrol, etc.

Product Code	Size	Pack Qty
FG-OILSHEET 100	40cm x 50cm	100 Sheets



All purpose spill absorber, made from 100% absorbant granules which are effective at absorbing spills and liquids.

Environmentally safe and easy to use 20kg bags.

Product Code	Pack Description
Halesabsorbclay	20 KG



The ultimate PTFE paste for the assembly of injection mould tools, it also provides excellent anti seize on many types of moving parts.

Product Code	Pack Description
PROLON-250	Prolon 250g Tube
PROLON-500G	Prolon 500ml Tub
PROLON-20KG	Prolon 20kg Tub



Food Grade Anti-Seize Assembly Paste

White, non-toxic, grease-like compound designed for use as an assembly lubricant for lubrication bushes, sliding surfaces and small open plastic or metal gears and anti-seize compound for threaded fasteners, to prevent damage during start up and protect against premature wear during the running-in period.

Product Code	Pack Description
FM-ASSEMBLYPASTE-0125	125g Tube
FM-ASSEMBLYPASTE-003	3kg Tub



Product Code	Description	Pack Size	Pack Description
CAS-HYSAWS010-020	Hyspin AWS10	20 Ltr	Pail
CAS-HYSAWS010-205	Hyspin AWS10	205 Ltr	Drum
CAS-HYSAWS022-020	Hyspin AWS22	20 Ltr	Pail
CAS-HYSAWS022-205	Hyspin AWS22	205 Ltr	Drum
CAS-HYSAWS032-020	Hyspin AWS32	20 Ltr	Pail
CAS-HYSAWS032-205	Hyspin AWS32	205 Ltr	Drum
CAS-HYSAWS046-020	Hyspin AWS46	20 Ltr	Pail
CAS-HYSAWS046-205	Hyspin AWS46	205 Ltr	Drum
CAS-HYSAWS046-1000	Hyspin AWS46	1000 Ltr	IBC
CAS-HYSAWS068-020	Hyspin AWS68	20 Ltr	Pail
CAS-HYSAWS068-205	Hyspin AWS68	205 Ltr	Drum
CAS-HYSAWS068-1000	Hyspin AWS68	1000 Ltr	IBC
CAS-HYSAWS100-020	Hyspin AWS100	20 Ltr	Pail
CAS-HYSAWS100-205	Hyspin AWS100	205 Ltr	Drum
CAS-HYSAWS150-020	Hyspin AWS150	20 Ltr	Pail
CAS-HYSAWS150-205	Hyspin AWS150	205 Ltr	Drum
CAS-HYSAWS220-020	Hyspin AWS220	20 Ltr	Pail
CAS-HYSAWS220-205	Hyspin AWS220	205 Ltr	Drum
CAS-HYSZZ032-020 ZF	Hyspin ZZ32	20 Ltr	Pail
CAS-HYSZZ032-205 ZF	Hyspin ZZ32	205 Ltr	Drum
CAS-HYSZZ046-020 ZF	Hyspin ZZ46	20 Ltr	Pail
CAS-HYSZZ046-205 ZF	Hyspin ZZ46	205 Ltr	Drum
CAS-HYSZZ046-1000 ZF	Hyspin ZZ46	1000 Ltr	IBC
CAS-HYSZZ068-020 ZF	Hyspin ZZ68	20 Ltr	Pail
CAS-HYSZZ068-205 ZF	Hyspin ZZ68	205 Ltr	Drum
CAS-HYSZZ068-1000ZF	Hyspin ZZ68	1000 Ltr	IBC
CAS-HYSZZ150-020ZF	Hyspin ZZ150	20 Ltr	Pail
CAS-HYSZZ150-205ZF	Hyspin ZZ150	205 Ltr	Drum

More products available in Hales Industrial Catalogue or upon request

ZZ = Zinc Free

CASTROL Slideway Oil

LUBRICANTS, OILS AND GREASES



Product Code	Description	Pack Size	Pack Description
CAS-MAGNASW32-020	Magna SW 32	20 Ltr	Pail
CAS-MAGNASWD68-020	Magna SW D68	20 Ltr	Pail
CAS-MAGNASWD68-205	Magna SW D68	205 Ltr	Drum
CAS-MAGNASWD220-020	Magna SW D220	20 Ltr	Pail
CAS-MAGNASWD220-205	Magna SW D220	205 Ltr	Drum

CASTROL Greases

LUBRICANTS, OILS AND GREASES



Product Code	Description	Pack Size	Pack Description
CAS-SPHEEROLEPL0-0025	Spheerol EPL0	2.5 kg	Tub
CAS-SPHEEROLEPL0-020	Spheerol EPL0	20 kg	Pail
CAS-SPHEEROLEPL0-175	Spheerol EPL0	175 kg	Drum
CAS-SPHEEROLEPL00-020	Spheerol EPL00	20 kg	Pail
CAS-SPHEEROLEPL00-175	Spheerol EPL00	175 kg	Drum
CAS-SPHEEROLEPL1-020	Spheerol EPL1	20 kg	Pail
CAS-SPHEEROLEPL1-180	Spheerol EPL1	180 kg	Drum
CAS-SPHEEROLEPL2-0045	Spheerol EPL2	450g	Cartridge
CAS-SPHEEROLEPL2-002.5	Spheerol EPL2	2.5 kg	Tub
CAS-SPHEEROLEPL2-020	Spheerol EPL2	20 kg	Pail
CAS-SPHEEROLEPL2-055	Spheerol EPL2	55 kg	Pail
CAS-SPHEEROLEPL2-180	Spheerol EPL2	180 kg	Drum



Hydromax AW Hydraulic Fluid

High performance hydraulic fluid, based on the latest base oil and additive technology. The use of an ashless additive pack warrants optimal performance and a long service life

Product Code	Description	Pack Size	Pack Description
MAT-HYDROMAX AW32 20	Hydromax AW32	20 Ltr	Pail
MAT-HYDROMAX AW32 205	Hydromax AW32	205 Ltr	Drum
MAT-HYDROMAX AW46 20	Hydromax AW46	20 Ltr	Pail
MAT-HYDROMAX AW46 205	Hydromax AW46	205 Ltr	Drum
MAT-HYDROMAX AW46 1000	Hydromax AW46	1000 Ltr	IBC
MAT-HYDROMAX AW68 20	Hydromax AW68	20 Ltr	Pail
MAT-HYDROMAX AW68 205	Hydromax AW68	205 Ltr	Drum
MAT-HYDROMAX AW68 1000	Hydromax AW68	1000 Ltr	IBC
MAT-HYDROMAX ZF 46 205	Hydromax ZF46	205 Ltr	Drum
MAT-HYDROMAX ZF 68 205	Hydromax ZF68	205 Ltr	Drum

ZF = Zinc Free



Foodmax® AW Hydraulic Fluid

Foodmax® AW is non-toxic food grade hydraulic fluid formulated using specially selected highly refined base stock in combination with the latest additive technology. Foodmax® AW is suitable for applications where incidental contact with food or raw materials is possible during the production process.

Product Code	Description	Pack Size	Pack Description
FM-AWHYDRA22-020	Foodmax AW Hydra22	20 Ltr	Pail
FM-AWHYDRA46-020	Foodmax AW Hydra46	20 Ltr	Pail
FM-AWHYDRA46-210	Foodmax AW Hydra46	210 Ltr	Drum
FM-AWHYDRA68-020	Foodmax AW Hydra68	20 Ltr	Pail
FM-AWHYDRA68-210	Foodmax AW Hydra68	210 Ltr	Drum



Slidemax Slideway Oil

Slidemax are specially compounded oils developed for the lubrication for slides and guide ways. They are specially developed to eliminate the phenomenon of stick-slip in machine tool operation.

Product Code	Description	Pack Size	Pack Description
MAT-SLIDEMAX 68 20	Slidemax 68	20 Ltr	Pail



Product Code	Description	Pack Size	Pack Description
SHEL-HYD S1 M46 209L	Hydraulic S1 M46	209 Ltr	Drum
SHEL-HYD S1 M68 209L	Hydraulic S1 M68	209 Ltr	Drum
SHEL-TELLM22 20	Tellus S2 MX22	20 Ltr	Pail
SHEL-TELLM22 209	Tellus S2 MX22	209 Ltr	Drum
SHEL-TELLM32 20	Tellus S2 MX32	20 Ltr	Pail
SHEL-TELLM32 209	Tellus S2 MX32	209 Ltr	Drum
SHEL-TELLM46 20	Tellus S2 MX46	20 Ltr	Pail
SHEL-TELLM46 209	Tellus S2 MX46	209 Ltr	Drum
SHEL-TELLM46 1000	Tellus S2 MX46	1000 Ltr	IBC
SHEL-TELLM68 20	Tellus S2 MX68	20 Ltr	Pail
SHEL-TELLM68 209	Tellus S2 MX68	209 Ltr	Drum
SHEL-TELLM100 20	Tellus S2 MX100	20 Ltr	Pail
SHEL-TELLM100 209	Tellus S2 MX100	209 Ltr	Drum
SHEL-TELLME46 209	Tellus S4 ME46	209 Ltr	Drum
SHEL-TELLME68 209	Tellus S4 ME68	209 Ltr	Drum
SHEL-TELLS2VX46 20	Tellus S2 VX46	20 Ltr	Pail
SHEL-TELLS2VX46 209	Tellus S2 VX46	209 Ltr	Drum
SHEL-TELLS2VX68 20	Tellus S2 VX68	20 Ltr	Pail
SHEL-TELLS2VX68 209	Tellus S2 VX68	209 Ltr	Drum
SHEL-TELLS3M32 20 ZF	Tellus S3 M32 ZF	20 Ltr	Pail
SHEL-TELLS3M46 209 ZF	Tellus S3 M46 ZF	209 Ltr	Drum
SHEL-TELLS3M46 1000 ZF	Tellus S3 M46 ZF	1000 Ltr	IBC
SHEL-TELLS3M68 209 ZF	Tellus S3 M68 ZF	209 Ltr	Drum

More products available in Hales Industrial Catalogue or upon request

ZF = Zinc Free

SHELL Slideway Oil

LUBRICANTS, OILS AND GREASES



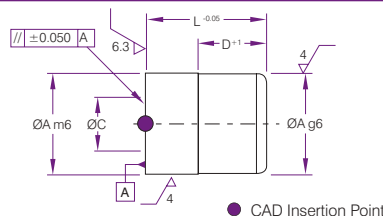
Product Code	Description	Pack Size	Pack Description
SHEL-TONS68 20	Tonna S3 M68	20 Ltr	Pail
SHEL-TONS68 209	Tonna S3 M68	209 Ltr	Drum
SHEL-TONS220 20	Tonna S3 M220	20 Ltr	Pail

SHELL Greases

LUBRICANTS, OILS AND GREASES



Product Code	Description	Pack Size	Pack Description
SHEL-GAD S2 V100 2 .450	Gadus S2 V100 2	450g	Catridge
SHEL-GAD S2 V100 2 18	Gadus S2 V100 2	18 kg	Pail
SHEL-GAD S2 V100 2 180	Gadus S2 V100 2	180 kg	Drum
SHEL-GAD S2 V100 3 .450	Gadus S2 V100 3	450g	Catridge
SHEL-GAD S2 V100 3 18	Gadus S2 V100 3	18 kg	Pail
SHEL-GAD S2 V100 3 180	Gadus S2 V100 3	180 kg	Drum
SHEL-GAD S2 V220 0 18	Gadus S2 V220 0	18 kg	Pail
SHEL-GAD S2 V220 00 18	Gadus S2 V220 00	18 kg	Pail
SHEL-GAD S2 V220 1 18	Gadus S2 V220 1	18 kg	Pail
SHEL-GAD S2 V220 2 450	Gadus S2 V220 2	450g	Catridge
SHEL-GAD S2 V220 2 18	Gadus S2 V220 2	18 kg	Pail
SHEL-GAD S2 V220 2 180	Gadus S2 V220 2	180 kg	Drum
SHEL-GAD S2 V220 AC2 450	Gadus S2 V220 AC2	450g	Catridge
SHEL-GAD S2 V220 AC2 18	Gadus S2 V220 AC2	18 kg	Pail
SHEL-GAD S2 V220 AC2 180	Gadus S2 V220 AC2	180 kg	Drum
SHEL-GAD S2 V220 AD 18	Gadus S2 V220 AD2	18 kg	Pail
SHEL-GAD S2 V220 AD2 450	Gadus S2 V220 AD2	450g	Catridge
SHEL-GAD S2 V1000 AD2.450	Gadus S2 V1000 AD2	450g	Catridge
SHEL-GAD S2 V1000 AD2 18	Gadus S2 V1000 AD2	18 kg	Pail
SHEL-GAD S3 T100 2 .450	Gadus S3 T100 2	450g	Catridge
SHEL-GAD S3 T100 2 18	Gadus S3 T100 2	18 kg	Pail

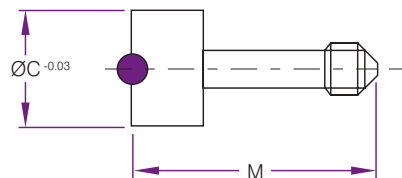


Materials: INOX. 1.4034
Hardness: 51 ± 3 HRC.
Max. working temp 150°C Patented System

Inner insert is always at the same level as the body of the date stamp.
Wide range of diameters. Only a H7 pocket required for assembly.
No downtime when changing inserts. Internal mechanism guarantees secure replacement of inserts.



12 Months	12 Months + Year	Year	Blank	A	C	D	E	L	N
FA0422SF	FA042212-...	FA042204-...	FA042200	4	2.2	6	3.5	12	4
FA0530SF	FA053012-...	FA053004-...	FA053000	5	3	6	3.5	12	4
FA0632SF	FA063212-...	FA063205-...	FA063200	6	3.2	12	4	20	5
FA0847SF	FA084712-...	FA084705-...	FA084700	8	4.7	12	6	20	5
FA1057SF	FA105712-...	FA105706-...	FA105700	10	5.7	12	8	20	6
FA1267SF	FA126712-...	FA126708-...	FA126700	12	6.7	12	10	20	8
FA1687SF	FA168712-...	FA168710-...	FA168700	16	8.7	12	12	20	10
FA2007SF	FA200712-...	FA200710-...	FA200700	20	10.7	12	14	20	10

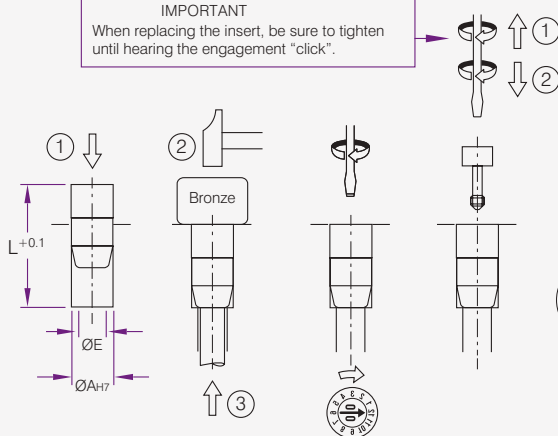


Material: INOX. 1.4034
Hardness: 51 ± 3 HRC.
Max. working temp 150°C Patented System

Year + Arrow



IMPORTANT
When replacing the insert, be sure to tighten until hearing the engagement "click".



Arrow Only



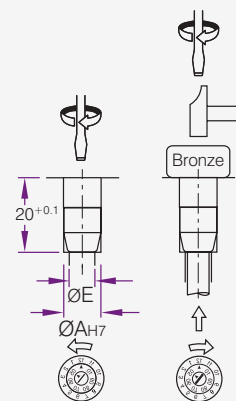
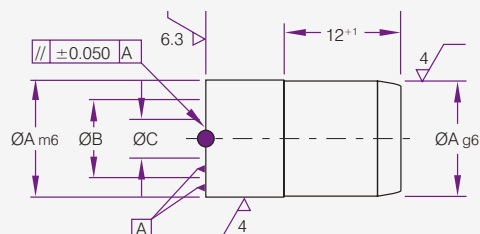
Year and Arrow		
Product Code	C	M
IA2275 . .	2.2	7.5
IA3075 . .	3	7.5
IA3217 . .	3.2	17
IA4717 . .	4.7	17
IA5717 . .	5.7	17
IA6717 . .	6.7	17
IA8717 . .	8.7	17
IA1007 . .	10.7	17

Arrow Only		
Product Code	C	M
IA2275SF	2.2	7.5
IA3075SF	3	7.5
IA3217SF	3.2	17
IA4717SF	4.7	17
IA5717SF	5.7	17
IA6717SF	6.7	17
IA8717SF	8.7	17
IA1007SF	10.7	17



Materials: INOX. 1.4034
 Hardness: 51 ± 3 HRC.
 Maximum working temperature 100°C .
 Patented System

Replaces the need for 2 separate date stamps. No need to machine 2 separate holes. Minimum space required for installation.



12 Months + Year	Blank	A	B	C	E	N
FD080512-..	FD080500	8	5.5	3	6	5
FD120812-..	FD120800	12	8	4	10	6
FD161012-..	FD161000	16	10.5	5.3	12	10

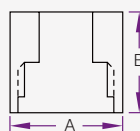
Mould Identification Month/Year Inserts

DATE STAMPS



A = Diameter/Tolerance = $+.00$
 $-.02$

B = Length/Tolerance = $\pm .03$



Product Code	A	B
DY-08	Dia 8.00	10.00
DY-10	Dia 10.00	10.00
DY-12	Dia 12.00	12.00
DY-16	Dia 16.00	14.00

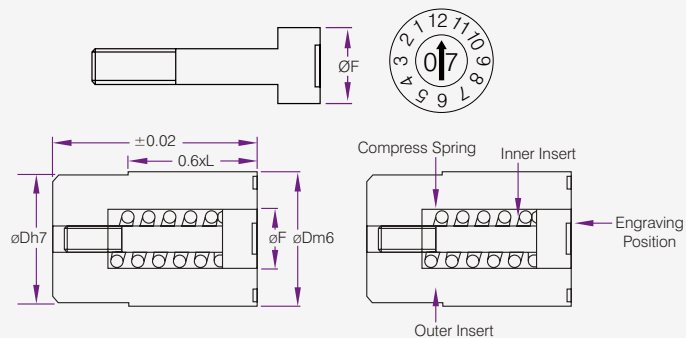
Product Code	A	B
DM-08	Dia 8.00	10.00
DM-10	Dia 10.00	10.00
DM-12	Dia 12.00	12.00
DM-16	Dia 16.00	14.00



Materials: INOX. 1.4034

Hardness: 51 ± 3 HRC.

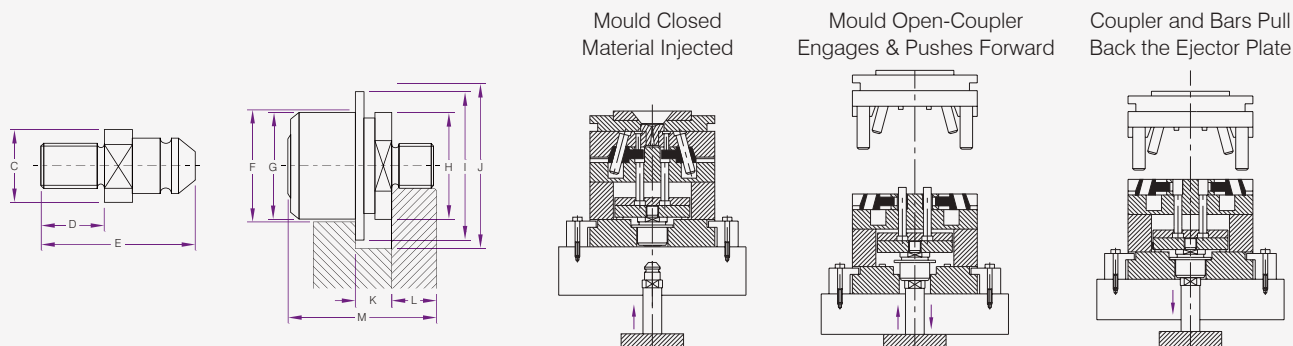
Max. working temp 150°C Patented System



Indication	DIA	Product Code	DIA	Product Code
	6	CCMY_*_06	12	CCMY_*_12
	8	CCMY_*_08	16	CCMY_*_16
	10	CCMY_*_10	20	CCMY_*_20
	6	CCMA0006	12	CCMA0012
	8	CCMA0008	16	CCMA0016
	10	CCMA0010	20	CCMA0020
	6	CCYA_*_06	12	CCYA_*_12
	8	CCYA_*_08	16	CCYA_*_16
	10	CCYA_*_10	20	CCYA_*_20
	12	CCDA0012	20	CCDA0020
	16	CCDA0016	20	CCDA0020
	6	CCNA0006	12	CCNA0012
	8	CCNA0008	16	CCNA0016
	10	CCNA0010	20	CCNA0020
	6	CCSA0006	12	CCSA0012
	8	CCSA0008	16	CCSA0016
	10	CCSA0010	20	CCSA0020
	6	CCBA0006	12	CCBA0012
	8	CCBA0008	16	CCBA0016
	10	CCBA0010	20	CCBA0020

Indication	DIA	Product Code	DIA	Product Code
Year	3.1	CIY_*_06	6.2	CIY_*_12
	4.2	CIY_*_08	8.2	CIY_*_16
	5.2	CIY_*_10	11	CIY_*_20
Arrow	3.1	CIA0006	6.2	CIA0012
	4.4	CIA0008	8.2	CIA0016
	5.2	CIA0010	11	CIA0020
Month	6	COM0006	12	COM0012
	8	COM0008	16	COM0016
	10	COM0010	20	COM0020
Year	6	COY_*_06	12	COY_*_12
	8	COY_*_08	16	COY_*_16
	10	COY_*_10	20	COY_*_20
Day	12	COD0012	20	COD0020
	16	COD0016	20	COD0020
Numbers	6	CON0006	12	CON0012
	8	CON0008	16	CON0016
	10	CON0010	20	CON0020
Shift	6	COS0006	12	COS0012
	8	COS0008	16	COS0016
	10	COS0010	20	COS0020
Blank	6	COB0006	12	COB0012
	8	COB0008	16	COB0016
	10	COB0010	20	COB0020

Dimensions			
DIA	D	L	F
6	6	8	3.1
8	8	10	4.4
10	10	12	5.2
12	12	14	6.2
16	16	14	8.2
20	20	16	11



Coupler

Product Code	Thread	F	G	H	I	J	K	L	M
302M12COUP	12x1.75	34	32	32	39	43	9	15	42.5
402M16COUP	16x1.5	40	38	38	48	53	13	15	52
402M162COUP	16x2	40	38	38	48	53	13	15	52
402M20COUP	20x1.5	40	38	38	48	53	13	15	52
412M16COUP	16x1.5	58	56	52	65	70	17	18	68
412M20COUP	20x2	58	56	52	65	70	17	18	68

Barbs

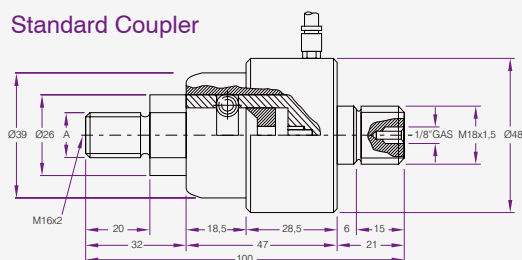
Product Code	Thread	C	D	E
301M12BARB	12x1.75	22.8	20	45.5
401M16BARB	16x2	25.8	20	55
401M20BARB	20x2.5	25.8	20	55
411M16BARB	16x2	35	35	68
411M20BARB	20x2.5	35	35	68

Quick Knockout Air Ejector Couplers

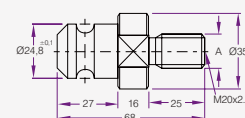
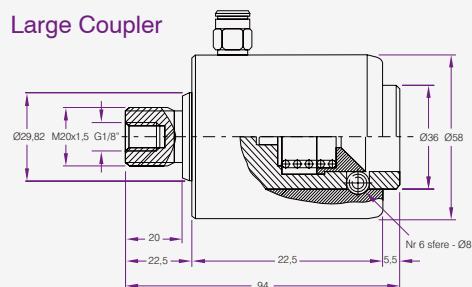
PRODUCTION ACCESSORIES



Standard Coupler



Large Coupler



Product Code	Thread
QKAC18	Standard Coupler
QKAC20	Large Coupler

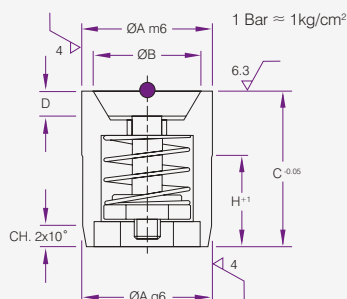


Helps part ejection with air.

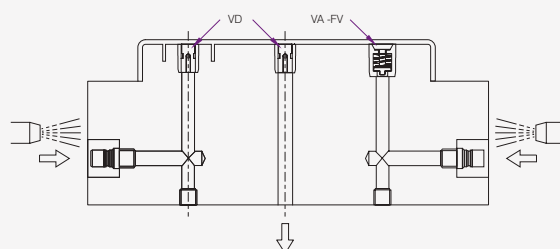
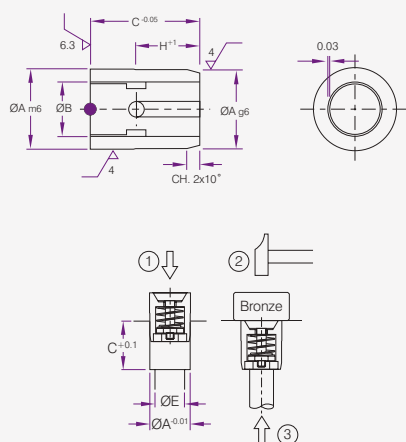
Material: INOX. 1.4034

Hardened 51 ± 3 HRC.

Working pressure: 1.5-6 BARS.



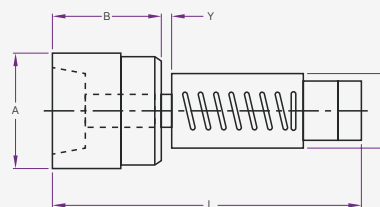
Product Code	A	B	C	D	E	H
VA050412	5	3	12	1.5	4	7
VA065212	6	5.2	12	1.5	4	7
VA086512	8	6.5	12	1.5	4	7
VA100812	10	8	12	2	8	7
VA121012	12	10	12	2.5	10	7
VA161320	16	13	20	3	12	12
VA201720	20	17	20	3.5	16	12



Product Code	A	B	C	E	H
VD080512	8	5	12	4	7
VD100612	10	6	12	5	7
VD120812	12	8	12	7	7
VD161020	16	10	20	9	12



High Pressure Air Valve
Stainless spring designed for fast cycles
Max temperature 130°C



Product Code	A	B	C	L	Y
OIVA01N	8	11	6	24	1,0
OIVA02N	12	18	8	34	1,0
OIVA03N	18	22	12	45,5	1,0

Butane Blow Torch

PRODUCTION ACCESSORIES



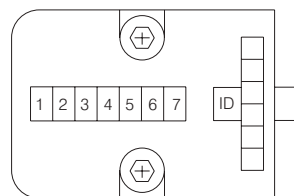
Product Code	Description
TS4000TK	High Heat Torch Kit
1811120	Map Pro Gas Cylinder
ST2200T	Micro Flame Torch
BF55	Fuel Cylinder

Hopper Magnets

PRODUCTION ACCESSORIES



Product Code	Length	Width	Height	Type
HM-5R	120	112	90	Round Type - 5 Bars
HM-5S	120	112	90	Square Type - 5 Bars
HM-7R	180	175	75	Round Type - 7 Bars
HM-7S	180	175	75	Square Type - 7 Bars
HM-9R	230	218	75	Round Type - 9 Bars
HM-9S	230	218	75	Square Type - 9 Bars

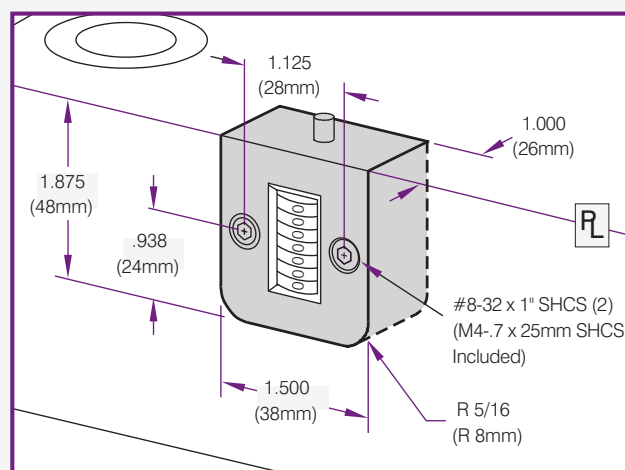


Progressive's CounterView positively monitors mold activity, validates process monitoring data, and assists mold maintenance procedures.

- Maximum operating temperature is 120°C (250°F)
- Counter: Bib-resettable mechanical, 7 digit.

Parting Line Mount

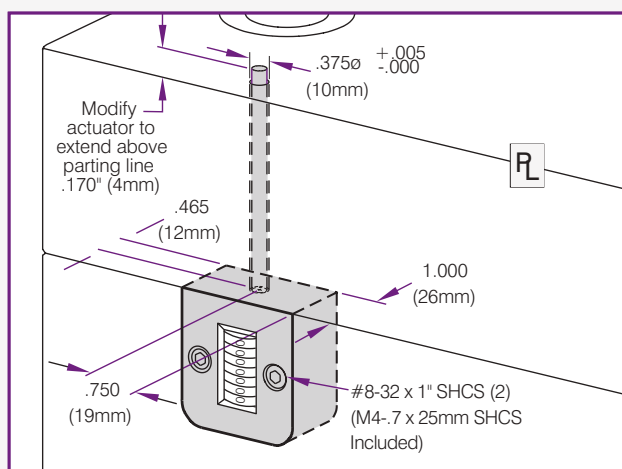
- Makes unit easily visible to operator



Product Code	Description
CVPL-100	Inch Standard
CVPL-200	Metric Standard

Internal Extension Mount

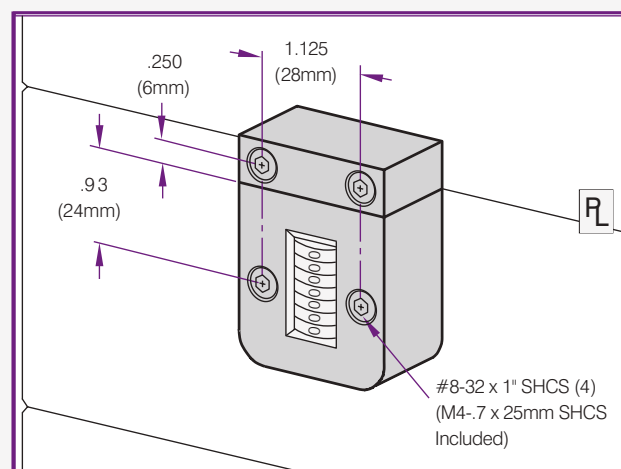
- Machinable 200mm (8") extension allows installation to sup. plate or rail.



Product Code	Description
CVIN-100	Inch Standard
CVIN-200	Metric Standard

External Mount

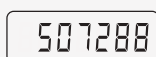
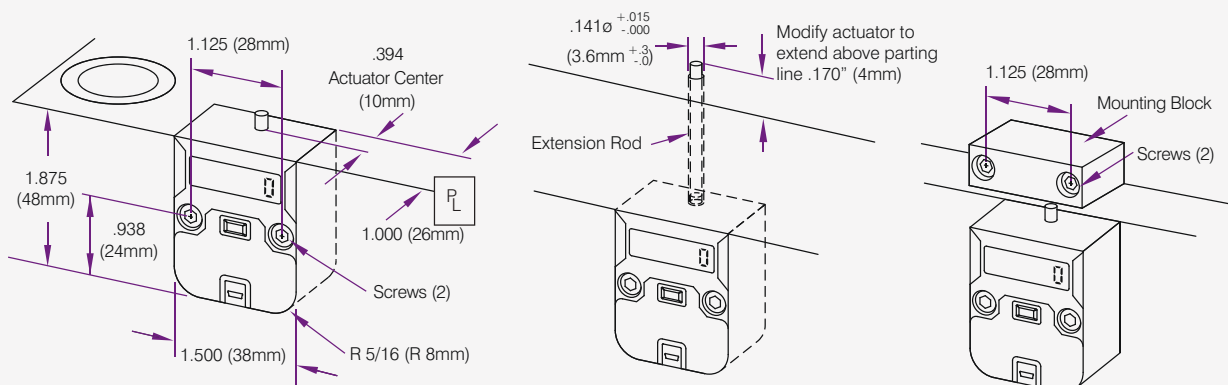
- No pocket machining necessary. Designed specifically for retrofit applications



Product Code	Description
CVEX-100	Inch Standard
CVEX-200	Metric Standard



- 7-digit LCD display with a push button to move through the display modes
- 4GB Flash drive for file storage and 4+ year battery within monitor
- Water resistant with an ingress protection rating of IP52
- Maximum temperature: 190°F (90°C)
- Dimensional compatibility with Progressive's mechanical CounterViews
- Mini USB connectivity for data retrieval with cables sold separately



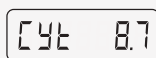
Cycle Count

Total cycles for the life of the mould is presented on the main screen of the CVE Monitor



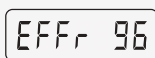
Efficiency Percentage

The percentage of time that the mould has been actively cycling vs being idle



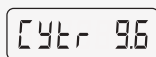
Cycle Time

Since the first production cycle, the cycle time is shown in seconds for the life of the mould.



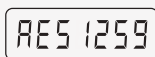
Efficiency Percentage-Recent

The percentage of time the mould has been active in the past 25,000 cycles.



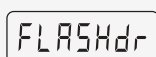
Cycle Time-Recent

Cycle time for the past 25,000 cycles



Cycle Count Reset

A separate counter that can be reset to 0 for interim monitoring of cycles when pressed and held



Embedded Flash Drive

Users can utilize the 4GB flash drive on the CVE Monitor by connecting the device to a PC using an industry-standard mini USB cable. sold on the next page. Users press the button to get to the flash drive mode and then

Product Code	Description
CVE-INT	Internal Extension Rod (8"/200mm) including a hex key for the CVE Monitor set screw removal
CVE-EXT	External Mounting Block including #8-32 x 1" SHCS (2) and M4 x 25mm SHCS (2)
CVE-M	CVe Monitor v2 mould Maker/moulder version including #8-32 x 1" SHCS (2) and M4 x 25mm SHCS (2)

Smartflow® Mould Protective Limit Switches are designed and built by engineers with expert mould-building experience. Thinswitch®, SmartLock® and Versaswitch™ are the benchmark switches in the injection moulding industry. Moulders rely on them to provide dependable position indication and protection for valuable injection moulds.



Thinswitch® Global Limit Switch

Liquid-Resistant Limit Switch - 3mm/4mm Height

Smartflow® Global Thinswitch® Limit Switch helps prevent accidental mould close in injection moulds by verifying ejector plate return in injection moulds with 3mm or 4mm rest buttons, and where occasional water or oil spray is present. A polyurethane dome covers the actuator spring, protecting internal gold switch contacts from environmental contamination.

- Adjustable actuation between 3.2mm and 4mm from the switch base (excludes spacer)
- Over 14 million cycle life
- 176F (80°C) standard temperature rating

Product Code

TW-222-LR



Thinswitch® Limit Switch

Verify ejector plate return before closing the mould. Mount inside ejector housing and wire to machine controls. Use for core slides or any place where space is limited.

- Prevents costly mould damage
- Small size - 2.15" L x 1.5" W x 0.18" thick
- Fits behind ejector plate
- 10 million cycle mechanical life
- Adjustable operating point
- Electrical capacity at 250V AC 5 Amps Resistive, 4 Amps Inductive
- Optional high temperature model

Product Code

T-222



Thinswitch® Liquid Resistant Limit Switch

Designed to verify ejector plate return in areas where occasional water or oil spray is present. The Thinswitch helps prevent accidental mould close in injection moulding applications by providing a position switch that is tied to the injection moulding machine control. The liquid resistant switch uses the same mounting hole locations as the original Thinswitch.

- Over 10 million cycle life
- 175F (79.4°C) standard temperature rating
- 250F (121°C) high temperature unit for higher temperature needs
- Mounting screws and wire clips included

Product Code

HT-291-LR



Smartlock® Core Slide Retainer and Limit Switch

The slide retainer and limit switch is designed for injection moulders to provide switching plus slide retaining in one unique package. The SMARTLOCK® locking function prevents premature slide movement during moulded part ejection while the SPDT switch is simultaneously actuated.

- New capture screw prevents plunger loss.
- Over 10 million cycle life provides long dependable service.
- 27 pounds holding force: adjustable for optimum operation.
- Stripped and tinned 6 ft. wire leads make the switch ready to install without modification.

Product Code

SL-222

**125mm Sprue Snips**

Total Length: 130mm
 Blade Length: 19mm
 Usable Blade Opening at Tip: 13.5mm
 Usable Blade Opening at Base: 5.5mm

Product Code	Description
MCTS125	Model: 125mm

**150mm Sprue Snips**

Total Length: 155mm
 Blade Length: 21mm
 Usable Blade Opening at Tip: 16mm
 Usable Blade Opening at Base: 6mm

Product Code	Description
MCTS150	Model: 150mm

**180mm Sprue Snips**

Total Length: 185mm
 Blade Length: 25mm
 Spring Type Coil

Product Code	Description
MCTS180	Model: 180mm

**Flat/Angled Back Sprue Snips**

Product Code	Description
MC160S	Flat Back Japanese Quality Snips
MC170S	Angled Back Japanese Quality Snips

PRODUCTION ACCESSORIES

Throwaway Knives



Product Code	Description
TSK	145mm Long Disposable Fixed Knife Blade

PRODUCTION ACCESSORIES

Work Finisher Ceramic Knives



Small and large Work Finishers offer deburring of hard plastics, without the possibility of cutting your hand.

Product Code	Description
WF620	Small Work Finisher Knife
WF1540	Large Work Finisher Knife

PRODUCTION ACCESSORIES

NOGA Deburring Tool - Rapid 3, Rapid 5



Product Code	Description
NNG1003	Will do almost all of your deburring jobs. Includes NG-1 handle, S10, S20, and S35 blades.
NNG1005	Suitable for extra fine deburring operations. Includes NG-1 handle, S10, S20, S35, S101 and S202 blades.

PRODUCTION ACCESSORIES

NOGA Deburring Tool - Liza



Double end blade holder to utilise both N and S blades.
Telescopes from 20-110 mm with N Blades. Telescopes from 20-94 mm with S Blades.

Product Code	Description
NLB1000	UN1000 Handle, SN-Holder. N1 & N2 blades with extension arm.

PRODUCTION ACCESSORIES

NOGA Deburring Tool - Rapid



12mm hexagonal painted handle and S10 Blade.
Steel housing for long life of handle. Blade is replaceable.

Product Code	Blade Compatibility
NTB1000	3.2mm blades



Designed for hard to reach locations. 8mm painted hexagonal aluminum handle and N1 blade. Blade is replaceable.

Product Code	Blade Compatibility
NTB1000	2.6mm blades

NOGA Deburring Tool - Edge Off

PRODUCTION ACCESSORIES



Product Code	Description
NEO1000	A handy pocket clip is a standard feature of this tool. Includes: S10 blade mounted in an 8mm painted hexagonal aluminium handle.

NOGA Deburring Tool - Countersink

PRODUCTION ACCESSORIES



The standard tool for countersinking. Useful for chamfering deep holes.

Product Code	Description
NNG3100	NOGA Countersink Deburring Tool

NOGA Deburring Tool - Scraper

PRODUCTION ACCESSORIES



Heavy duty, double end scraper for longer tool life. Can be locked in required position.

Product Code	Description
NSG1000	Double ended T120 Triangular scraper

NOGA Blade - S10 Swivel

PRODUCTION ACCESSORIES



NOGA S10 Swivel Blade. Works best on steel, aluminium and plastic

Product Code	Angle	Pack Qty
NBS1010	40 Degrees	10 pcs in a pack



NOGA Deburring Swivel Blade. Heavy duty for brass and cast iron.

Product Code	Angle	Pack Qty
NBS2010	60 Degrees	10 pcs in a pack



Works best on fine edges on all materials. For right hand users.

Product Code	Angle	Pack Qty
NBK1010	40 Degrees	10 pcs in a pack



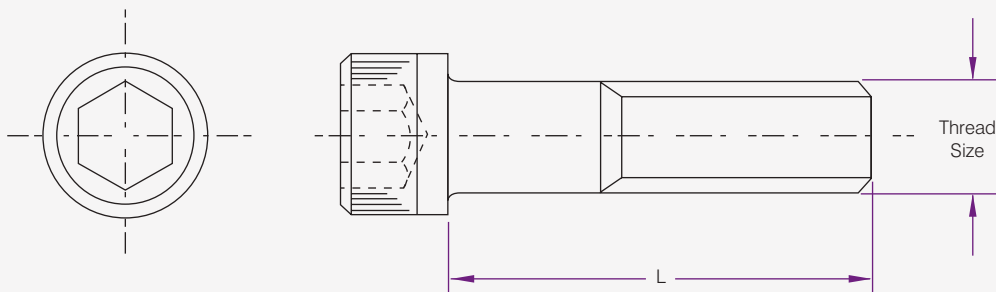
Works best on holes as small as 1.5 mm Diameter. For right hand users

Product Code	Angle	Pack Qty
NBK3010	45 Degrees	10 pcs in a pack



NOGA N1 Swivel Blade. Works best on steel, aluminium and plastic

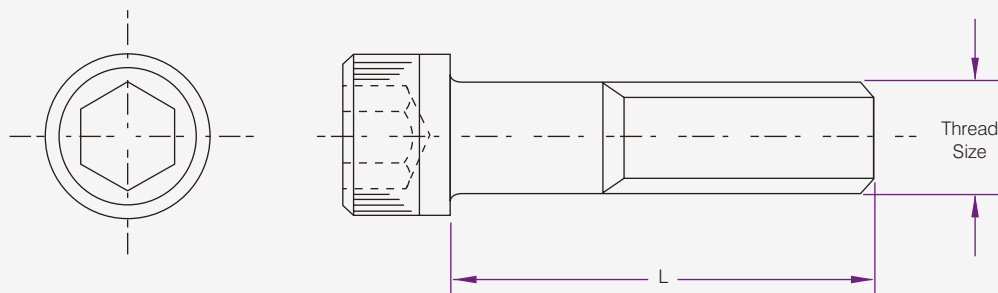
Product Code	Angle	Pack Qty
NBN1010	40 Degrees	10 pcs in a pack



METRIC							
Length	M2	M3	M4	M5	M6	M8	M10
5		UCAP3M05	UCAP4M05				
6		UCAP3M06	UCAP4M06	UCAP5M06			
8		UCAP3M08	UCAP4M08	UCAP5M08	UCAP6M08		
10		UCAP3M10	UCAP4M10	UCAP5M10	UCAP6M10	UCAP8M10	UCAP10M10
12	UCAP2M12	UCAP3M12	UCAP4M12	UCAP5M12	UCAP6M12	UCAP8M12	UCAP10M12
16		UCAP3M16	UCAP4M16	UCAP5M16	UCAP6M16	UCAP8M16	UCAP10M16
20		UCAP3M20	UCAP4M20	UCAP5M20	UCAP6M20	UCAP8M20	UCAP10M20
25		UCAP3M25	UCAP4M25	UCAP5M25	UCAP6M25	UCAP8M25	UCAP10M25
30		UCAP3M30	UCAP4M30	UCAP5M30	UCAP6M30	UCAP8M30	UCAP10M30
35		UCAP3M35	UCAP4M35	UCAP5M35	UCAP6M35	UCAP8M35	UCAP10M35
40			UCAP4M40	UCAP5M40	UCAP6M40	UCAP8M40	UCAP10M40
45			UCAP4M45	UCAP5M45	UCAP6M45	UCAP8M45	UCAP10M45
50			UCAP4M50	UCAP5M50	UCAP6M50	UCAP8M50	UCAP10M50
55				UCAP5M55	UCAP6M55	UCAP8M55	UCAP10M55
60				UCAP5M60	UCAP6M60	UCAP8M60	UCAP10M60
65				UCAP5M65	UCAP6M65	UCAP8M65	UCAP10M65
70				UCAP5M70	UCAP6M70	UCAP8M70	UCAP10M70
75					UCAP6M75	UCAP8M75	UCAP10M75
80				UCAP5M80	UCAP6M80	UCAP8M80	UCAP10M80
85							UCAP10M90
90				UCAP5M90	UCAP6M90	UCAP8M90	UCAP10M100
95							UCAP10M110
100					UCAP6M100	UCAP8M100	UCAP10M120
110					UCAP6M110	UCAP8M110	UCAP10M130
120					UCAP6M120	UCAP8M120	UCAP10M140
130						UCAP8M130	UCAP10M150
140					UCAP6M140	UCAP8M140	UCAP10M160
150						UCAP8M150	UCAP10M170
160						UCAP8M160	UCAP10M180
180						UCAP8M180	UCAP10M190
200						UCAP8M200	UCAP10M200

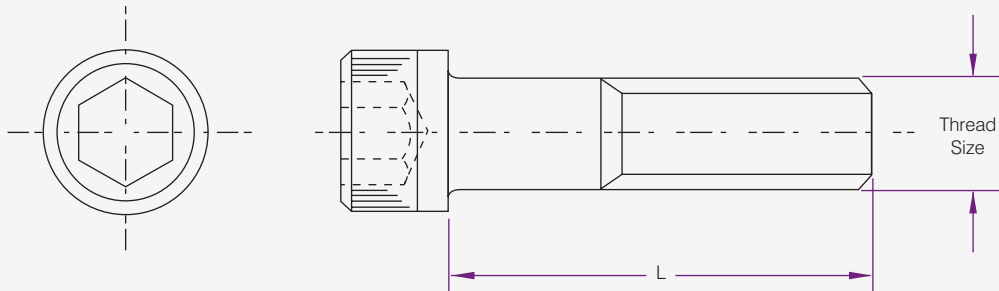


METRIC							
Length	M12	M14	M16	M18	M20	M22	M24
12	UCAP12M12						
16	UCAP12M16						
20	UCAP12M20						
25	UCAP12M25	UCAP14M25	UCAP16M25				
30	UCAP12M30	UCAP14M30	UCAP16M30		UCAP20M30		
35	UCAP12M35	UCAP14M35	UCAP16M35		UCAP20M35		
40	UCAP12M40	UCAP14M40	UCAP16M40		UCAP20M40		UCAP24M40
45	UCAP12M45	UCAP14M45	UCAP16M45		UCAP20M45		UCAP24M45
50	UCAP12M50	UCAP14M50	UCAP16M50	UCAP18M50	UCAP20M50		UCAP24M50
55	UCAP12M55	UCAP14M55	UCAP16M55		UCAP20M55		UCAP24M55
60	UCAP12M60	UCAP14M60	UCAP16M60		UCAP20M60		UCAP24M60
65	UCAP12M65	UCAP14M65	UCAP16M65		UCAP20M65		UCAP24M65
70	UCAP12M70	UCAP14M70	UCAP16M70		UCAP20M70		UCAP24M70
75	UCAP12M75	UCAP14M75	UCAP16M75		UCAP20M75		UCAP24M75
80	UCAP12M80	UCAP14M80	UCAP16M80		UCAP20M80		UCAP24M80
90	UCAP12M90	UCAP14M90	UCAP16M90		UCAP20M90		UCAP24M90
100	UCAP12M100	UCAP14M100	UCAP16M100		UCAP20M100		UCAP24M100
110	UCAP12M110	UCAP14M110	UCAP16M110		UCAP20M110	UCAP22M110	UCAP24M110
120	UCAP12M120	UCAP14M120	UCAP16M120		UCAP20M120		UCAP24M120
130	UCAP12M130	UCAP14M130	UCAP16M130		UCAP20M130	UCAP22M130	UCAP24M130
140	UCAP12M140	UCAP14M140	UCAP16M140		UCAP20M140		UCAP24M140
150	UCAP12M150	UCAP14M150	UCAP16M150		UCAP20M150		UCAP24M150
160	UCAP12M160	UCAP14M160	UCAP16M160		UCAP20M160		UCAP24M160
170	UCAP12M170	UCAP14M170	UCAP16M170				
180	UCAP12M180	UCAP14M180	UCAP16M180		UCAP20M180		UCAP24M180
190		UCAP14M190	UCAP16M190				
200	UCAP12M220	UCAP14M200	UCAP16M200		UCAP20M200		UCAP24M200
220	UCAP12M240	UCAP14M220	UCAP16M220		UCAP20M220		UCAP24M220
230		UCAP14M230					
240	UCAP12M240		UCAP16M240		UCAP20M240		UCAP24M240
250	UCAP12M250	UCAP14M250	UCAP16M250				
260			UCAP16M260		UCAP20M260		UCAP24M260
280					UCAP20M280		UCAP24M280
300			UCAP16M300		UCAP20M300		UCAP24M300
320							UCAP24M320
340							UCAP24M340

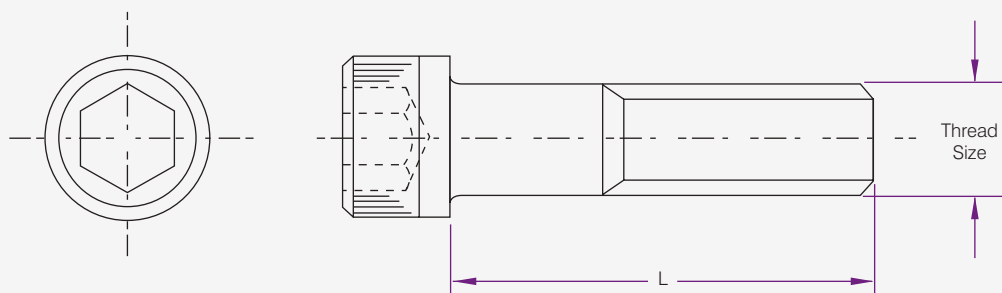


METRIC			
Length	M27	M30	M36
80	UCAP27M80	UCAP30M80	UCAP36M80
90	UCAP27M90	UCAP30M90	UCAP36M90
100	UCAP27M100	UCAP30M100	UCAP36M100
110	UCAP27M110	UCAP30M110	UCAP36M110
120	UCAP27M120	UCAP30M120	UCAP36M120
130		UCAP30M130	UCAP36M130
140	UCAP27M140	UCAP30M140	UCAP36M140
150	UCAP27M150	UCAP30M150	UCAP36M150
160		UCAP30M160	
180	UCAP27M180	UCAP30M180	UCAP36M180
200	UCAP27M200	UCAP30M200	UCAP36M200
220		UCAP30M220	
240		UCAP30M240	UCAP36M240
260		UCAP30M260	UCAP36M260
280		UCAP30M280	UCAP36M280
300		UCAP30M300	UCAP36M300
320		UCAP30M320	
340		UCAP30M340	
360		UCAP30M360	

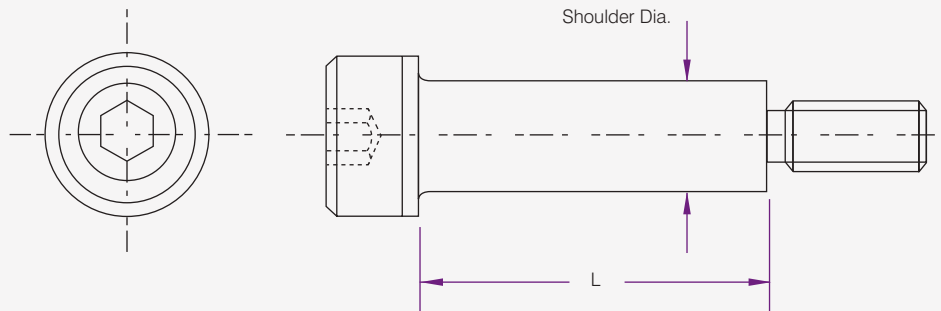
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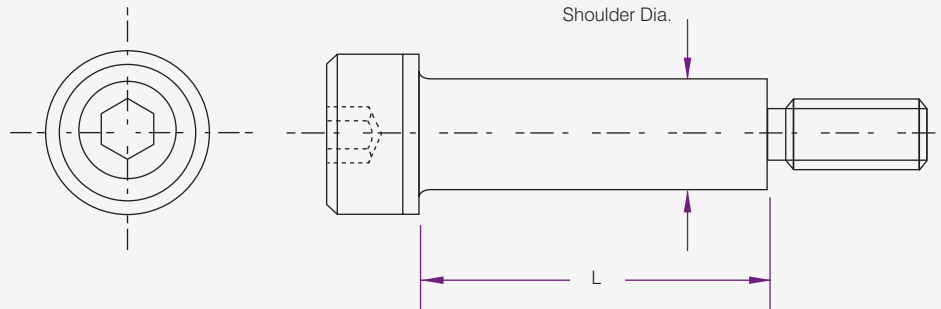
IMPERIAL					
Length	1/8	3/16	1/4	5/16	3/8
1/4		UCAP31614	UCAP1414		
3/8	UCAP1838	UCAP31638	UCAP1438	UCAP51638	
1/2	UCAP1812	UCAP31612	UCAP1412	UCAP51612	UCAP3812
5/8		UCAP31658	UCAP1458	UCAP51658	UCAP3858
3/4	UCAP1834	UCAP31634	UCAP1434	UCAP51634	UCAP3834
7/8			UCAP1478	UCAP51678	
1	UCAP181	UCAP3161	UCAP141	UCAP5161	UCAP381
1 1/4		UCAP316114	UCAP14114	UCAP516114	UCAP38114
1 1/2		UCAP316112	UCAP14112	UCAP516112	UCAP38112
1 3/4		UCAP316134	UCAP14134	UCAP516134	UCAP38134
2		UCAP3162	UCAP142	UCAP5162	UCAP382
2 1/4			UCAP14214	UCAP516214	UCAP38214
2 1/2		UCAP316212	UCAP14212	UCAP516212	UCAP38212
2 3/4			UCAP14234	UCAP516234	UCAP38234
3			UCAP143	UCAP5163	UCAP383
3 1/4			UCAP14314	UCAP516314	UCAP38314
3 1/2			UCAP14312	UCAP516312	UCAP38312
4			UCAP144	UCAP5164	UCAP384
4 1/2				UCAP516412	UCAP38412
5					UCAP385
5 1/2					UCAP38512
6					UCAP386



IMPERIAL				
Length	1/2	5/8	3/4	1"
1/2		UCAP5812	UCAP3412	
5/8	UCAP1258			
3/4	UCAP1234			
1	UCAP121	UCAP581		
1 1/4	UCAP12114	UCAP58114	UCAP34114	
1 1/2	UCAP12112	UCAP58112	UCAP34112	UCAP1112
1 3/4	UCAP12134	UCAP58134	UCAP34134	
2	UCAP122	UCAP582	UCAP342	UCAP12
2 1/4	UCAP12214	UCAP58214	UCAP34214	
2 1/2	UCAP12212	UCAP58212	UCAP34212	UCAP1212
2 3/4	UCAP12234			
3	UCAP123	UCAP583	UCAP343	UCAP13
3 1/4	UCAP12314			
3 1/2	UCAP12312	UCAP58312	UCAP34312	UCAP1312
4	UCAP124	UCAP584	UCAP344	UCAP14
4 1/2	UCAP12412	UCAP58412	UCAP34412	
5	UCAP125	UCAP585	UCAP345	UCAP15
5 1/2	UCAP12512	UCAP58512	UCAP34512	
6	UCAP126	UCAP586	UCAP346	UCAP16
6 1/2	UCAP12612	UCAP58612	UCAP34612	
7	UCAP127	UCAP587	UCAP347	UCAP17
8	UCAP128	UCAP588	UCAP348	UCAP18
9			UCAP349	UCAP19



METRIC							
Length	Shoulder Dia (Thread Size)						
	6mm (M5)	8mm (M6)	10mm (M8)	12mm (M10)	16mm (M12)	20mm (M16)	24mm (M20)
10	USS6M10						
12	USS6M12	USS8M12	USS10M12				
16	USS6M16	USS8M16	USS10M16	USS12M16			
20	USS6M20	USS8M20	USS10M20	USS12M20	USS16M20		
25	USS6M25	USS8M25	USS10M25	USS12M25			
30	USS6M30	USS8M30	USS10M30	USS12M30	USS16M30		
35		USS8M35					
40	USS6M40	USS8M40	USS10M40	USS12M40	USS16M40	USS20M40	
50	USS6M50	USS8M50	USS10M50	USS12M50	USS16M50	USS20M50	USS24M50
60	USS6M60	USS8M60	USS10M60	USS12M60	USS16M60	USS20M60	USS24M60
70		USS8M70	USS10M70	USS12M70	USS16M70	USS20M70	USS24M70
80		USS8M80	USS10M80	USS12M80	USS16M80	USS20M80	USS24M80
90				USS12M90	USS16M90	USS20M90	USS24M90
100				USS12M100	USS16M100	USS20M100	USS24M100
120				USS12M120	USS16M120	USS20M120	USS24M120
140				USS12M140			



IMPERIAL						
Length	Shoulder Dia (Thread Size)					
	1/4 (3/16)	5/16 (1/4)	3/8 (5/16)	1/2 (3/8)	5/8 (1/2)	3/4 (5/8)
3/8	USS1438	USS51638				
1/2	USS1412	USS51612	USS3812	USS1212		
5/8		USS51658	USS3858	USS1258		
3/4	USS1434	USS51634	USS3834	USS1234		
1	USS141	USS5161	USS381	USS121		
1 1/4	USS14114	USS516114	USS38114	USS12114	USS58114	
1 1/2	USS14112	USS516112	USS38112	USS12112	USS58112	USS34112
1 3/4		USS516134	USS38134	USS12134	USS58134	USS34134
2	USS142	USS5162	USS382	USS122	USS582	USS342
2 1/4		USS516214	USS38214	USS12214	USS58214	USS34214
2 1/2		USS516212	USS38212	USS12212	USS58212	USS34212
2 3/4			USS38234	USS12234	USS58234	USS34234
3			USS383	USS123	USS583	USS343
3 1/4			USS38314	USS12314		
3 1/2			USS38312	USS12312	USS58312	USS34312
4			USS384	USS124	USS584	USS344
4 1/4						USS34414
4 1/2				USS12412	USS58412	USS34412
5				USS125	USS585	USS345
6						USS346

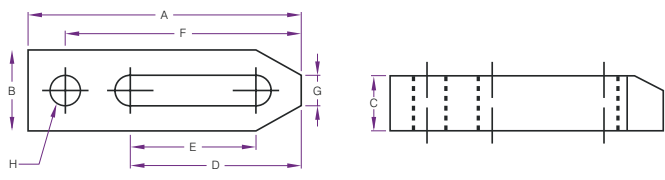


Brass Pressure Plugs - BSPT		
Product Code	Thread Size	Height
PP10	1/8	0.315
PP20	1/4	0.393
PP40	3/8	0.393
PP60	1/2	0.393
PP80	3/4	0.531
PP100	1	0.656

Brass Pressure Plugs - NPT		
Product Code	Thread Size	Height
CBP05	1/16	0.250
CBP10	1/8	0.250
CBP20	1/4	0.406
CBP40	3/8	0.406
CBP60	1/2	0.531
CBP80	3/4	0.531
CBP100	1	0.656



Steel Pressure Plugs - BSPT		
Product Code	Thread Size	Height
UPLUG18	1/8	0.375
UPLUG14	1/4	0.500
UPLUG38	3/8	0.555
UPLUG12	1/2	0.685
UPLUG58	5/8	0.750
UPLUG34	3/4	0.813
UPLUG1	1	0.998
UPLUG114	1 1/4	1.250



Product Code	Model	A	B	C	D	E	F	G	H
MC12	M12 x 100mm	100	32	19	71	43	88	13	M12
MC16	M16 x 150mm	150	37	25	100	60	130	17	M16
MC20	M20 x 200mm	200	50	32	114	82	185	21	M20
MC25	M25 x 250mm	250	70	45	157	100	224	27	1"BSW



Product Code	Attachment Bolt Size	Overall Length
BC12	12mm	100mm
BC16	16mm	125mm
BC20	20mm	160mm
BC24	24mm	200mm



Product Code	Size	Diameter	Weight	Length
TH208	A	25 mm	355 g	230 mm
TH210	1	32 mm	710 g	270 mm
TH212	2	38 mm	1070 g	305 mm
TH214	3	44 mm	1600 g	305 mm
TH216	4	50 mm	2380 g	355 mm

**METRIC - LONG ARM**

Product Code	Hex Size
UMWL015	1.5 mm
UMWL02	2 mm
UMWL025	2.5 mm
UMWL03	3 mm
UMWL04	4 mm
UMWL05	5 mm
UMWL06	6 mm
UMWL08	8 mm
UMWL10	10 mm
UMWL12	12 mm
UMWL14	14 mm
UMWL17	17 mm
UMWL19	19 mm
UMWL22	22 mm
UMWL24	24 mm
UMWL27	27 mm
UMWL32	32 mm

METRIC - SHORT ARM

Product Code	Hex Size
UMWS015	1.5 mm
UMWS02	2 mm
UMWS025	2.5 mm
UMWS03	3 mm
UMWS04	4 mm
UMWS05	5 mm
UMWS06	6 mm
UMWS08	8 mm
UMWS10	10 mm
UMWS12	12 mm
UMWS14	14 mm
UMWS17	17 mm
UMWS19	19 mm

IMPERIAL - LONG ARM

Product Code	Hex Size
UWL04	1/16
UWL05	5/64
UWL06	3/32
UWL07	7/64
UWL08	1/8
UWL09	9/64
UWL10	5/32
UWL12	3/16
UWL14	7/32
UWL16	1/4
UWL20	5/16
UWL24	3/8
UWL28	7/16
UWL32	1/2
UWL36	9/16
UWL40	5/8

IMPERIAL - SHORT ARM

Product Code	Hex Size
UWS04	1/16
UWS05	5/64
UWS06	3/32
UWS07	7/64
UWS08	1/8
UWS09	9/64
UWS10	5/32
UWS12	3/16
UWS14	7/32
UWS16	1/4
UWS20	5/16
UWS24	3/8
UWS28	7/16
UWS32	1/2
UWS36	9/16
UWS40	5/8



Product Code	Description
BONDHUS-HEX-METRIC	Bondhus L - Wrench Sets Metric 9 Pcs Set (Long): 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
BONDHUS-HEX-IMPERIAL	Bondhus L - Wrench Sets Imperial 13 Pcs Set (Long): 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"
BONDHUS-B-END-METRIC	Bondhus Ball End Metric L - Wrench Set 9 Pcs Set: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10mm
BONDHUS-B-END-IMPERIAL	Bondhus Ball End Imperial L - Wrench Set 13 Pcs Set: 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8"
BONDHUS-T-HANDLE-METRIC	Bondhus T Handle Hex Wrench Set 8 Pcs Set with Stand: 2, 2.5, 3, 4, 5, 6, 8, 10mm

MOULD MAINTENANCE AND SET UP

Sprue Radius Cutter



The tipped radius cutter ensures a smooth, precise fit between your machine nozzle and the sprue.

Product Code	Size (Radius)	Material
SRC48	3/4"	HSS

MOULD MAINTENANCE AND SET UP

Sprue Reamers



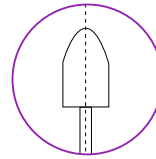
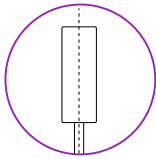
Product Code	Taper Degrees	Flute			Overall Length
		Small Dia.	Large Dia.	Length	
CRS1202	2°	.120"	.300"	5"	7"
CRS1203	3°	.120"	.390"	5"	7"
CRS1204	4°	.120"	.470"	5"	7"
CRS1205	5°	.120"	.560"	5"	7"
CRS1802	2°	.180"	.430"	7"	9"
CRS1803	3°	.180"	.550"	7"	9"
CRS1804	4°	.180"	.670"	7"	9"



Product Code	Micron	Colour	Description
DP01	1 Micron	Light Blue	The Superfine grade is for those applications which demand the highest possible accuracy and mirror finish.
DP03	3 Micron	Green	
DP06	6 Micron	Yellow	
DP09	9 Micron	Red	The Medium grades ensure a perfect intermediate surface for finishing to a high grade commercial polish with the Find grades.
DP15	15 Micron	Light Brown	
DP30	30 Micron	Dark Brown	
DP45	45 Micron	Purple	The Coarse and Extra Coarse grades ensure rapid stock removal for eliminating machining marks, deep scratches or blemishes.
DP60	60 Micron	Orange	

Felt Bobs & Cones

MOULD MAINTENANCE AND SET UP



FB = Standard Felt Bob

Product Code	Dia.	Overall Length	Shank Size
FB1414	1/4	1/4	1/8
FB14516	1/4	5/16	1/8
FB3838	3/8	3/8	1/8
FB1212	1/2	1/2	1/8
FB121	1/2	1	1/8
FB58118	5/8	1 1/8	1/8
FB3434	3/4	3/4	1/8
FB11	1	1	1/8

FC = Standard Felt Cone

Product Code	Dia.	Overall Length	Shank Size
FC14	1/4	5/8	1/8
FC24	3/8	7/8	1/8
FC12	1/2	1	1/8
FC58	5/8	1 1/4	1/8

FBH = Hard Felt Bob

Product Code	Dia.	Overall Length	Shank Size
FBH1414	1/4	1/4	1/8
FBH3838	3/8	3/8	1/8
FBH1212	1/2	1/2	1/8
FBH3434	3/4	3/4	1/8



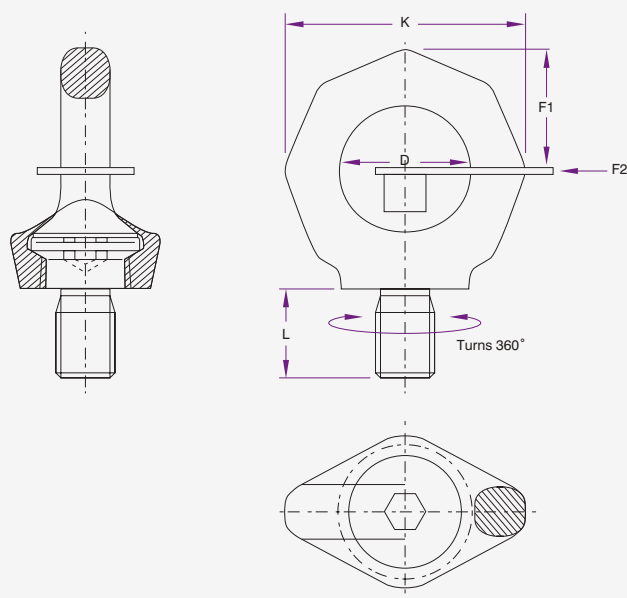
Product Code	Grits
WD0080	80#
WD0100	100#
WD0120	120#
WD0150	150#
WD0180	180#
WD0220	220#
WD0240	240#
WD0280	280#
WD0320	320#
WD0400	400#
WD0500	500#
WD0600	600#
WD0800	800#
WD1000	1000#
WD1200	1200#



Product Code	Description	RPM
LDG7202	Economy Air Grinder	54,000 Rpm



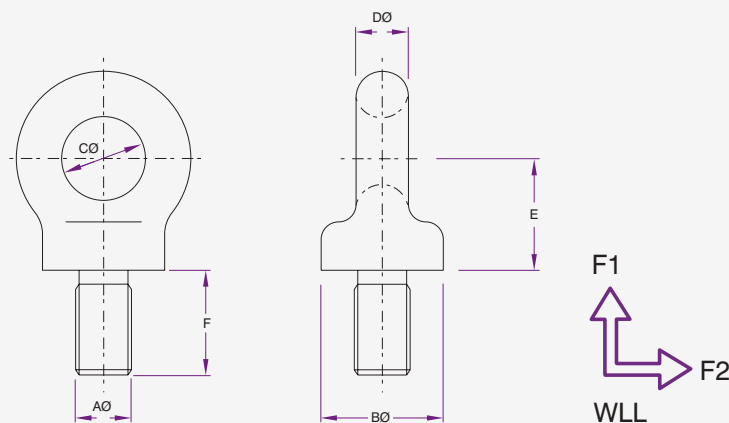
Product Code	Description	RPM
LDG7101	120° Angle Grinder	22,000 Rpm



Product Code	F1 WLL (t)	F2 Weight (kg)	D (mm)	K (mm)	L (mm)	Weight (kg)
VRS-F-M8	1000	400	25	47	15	0.10
VRS-F-M10	1000	400	25	47	15	0.12
VRS-F-M12	2000	750	30	56	18	0.18
VRS-F-M16	4000	1500	35	65	24	0.32
VRS-F-M20	6000	2300	40	75	30	0.51
VRS-F-M24	8000	3200	48	90	36	0.92
VRS-F-M30	12000	4500	60	112	45	1.80
VRS-F-M36	16000	7000	72	135	54	3.35
VRS-F-M42	24000	9000	82	158	63	5.14
VRS-F-M48	32000	12000	94	180	72	7.80



Manufactured using only heat certified Australian Steel



WLL (WORKING LOAD LIMIT)

- Each eyebolt is clearly stamped with the permitted F2 WLL.
- F2 WLL - indicates safe use for non-axial lifts.
- F1 WLL - indicates loads which are in line with the axis of the threaded end of the eyebolt. F1 WLL allows up to four (4) times higher lifting capacity whilst maintaining a 6:1 design factor of safety

Metric									
Product Code	AØ	WLL F1	WLL F2	BØ	CØ	DØ	E	F	NET WEIGHT (KG)
EYE10	M10	0.25t	0.06t	21	14	9	19	17	0.06
EYE12	M12	0.4t	0.1t	28	18	11	24	21	0.15
EYE16	M16	0.8t	0.2t	35	23	14	31	27	0.28
EYE20	M20	1.6t	0.4t	42	30	16	35	38	0.46
EYE24	M24	2.5t	0.62t	57	38	22	48	42	1.10
EYE30	M30	4t	1t	71	49	27	65	52	2.10
EYE36	M36	6.3t	1.57t	87	53	35	73	64	3.70
EYE42	M42	8t	2t	102	66	40	90	76	6.30
Imperial									
Product Code	AØ	WLL F1	WLL F2	BØ	CØ	DØ	E	F	NET WEIGHT (KG)
EYEI24	3/8"	0.25t	0.06t	21	14	9	19	17	0.06
EYEI32	1/2"	0.4t	0.1t	28	18	11	24	21	0.15
EYEI40	5/8"	0.8t	0.2t	35	23	14	31	27	0.28
EYEI48	3/4"	1.6t	0.4t	42	30	16	35	38	0.46
EYEI56	7/8"	2t	0.5t	50	32	20	41	41	0.85
EYEI64	1"	2.5t	0.62t	57	38	22	48	42	1.10



Mastip™ recognises that the manifold is a vital part of the complete Hot Runner System and therefore designs every system to meet customer's requirements including detailed designs for:

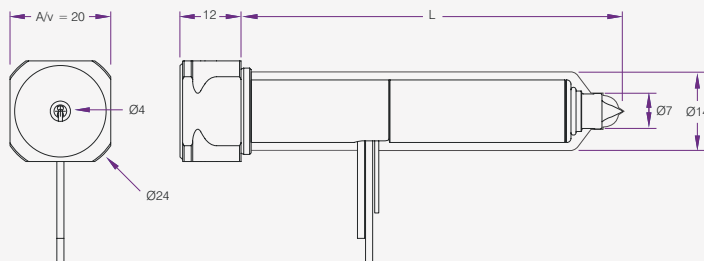
- Even part/cavity filling
- Balanced material flow
- Even heat profile
- Ideal for technical materials and fast colour changes

From single cavity to high cavity or multi material, thermal or valve gating, we can supply a system to suit your requirements.

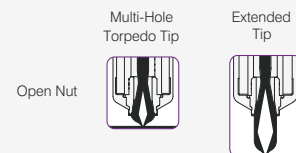


MJ Nozzles - Multi Cavity Only

HOT RUNNER & CONTROL

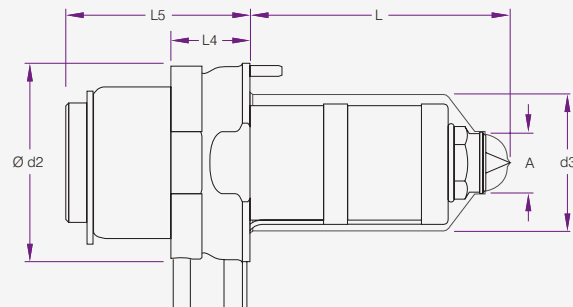


Gating Options



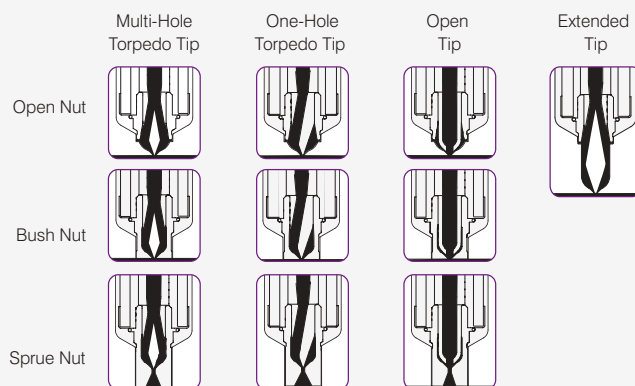
Only suitable for manifold applications

	Description
L	75
	95
	115
	130
	145
	175

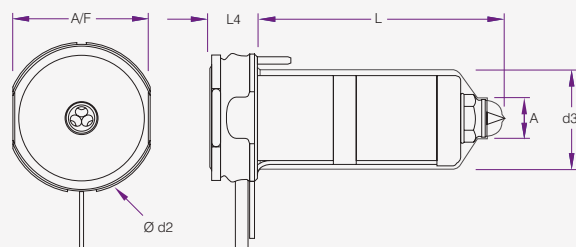


With two heaters the SX nozzle is perfectly suited for all single nozzle applications. Independently controlled heater zones provide uniform temperature distribution along the length of the nozzle, making it ideal to process difficult plastics.

Gating Options

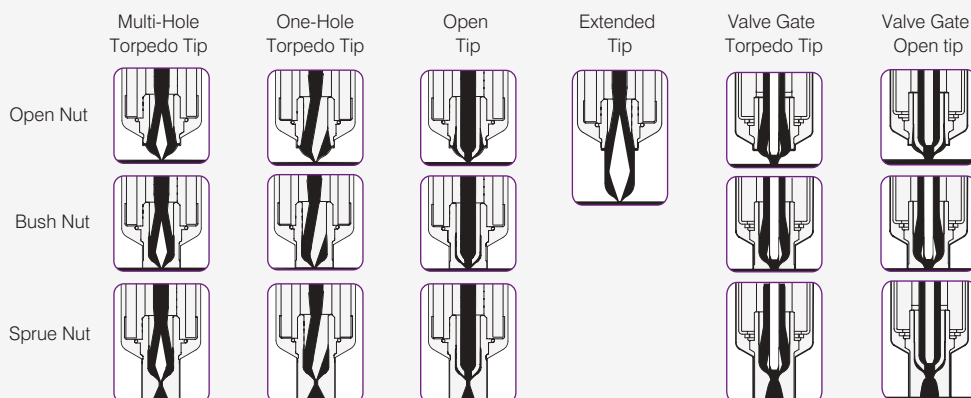


	13 Series	16 Series	19 Series	27 Series
L	45	45		
	55	55	55	
	65	65	65	
	75	75	75	75
	95	95	95	95
	115	115	115	115
			145	145
			175	175
				225
				275
L4	18	18	20	25
L5	44	44	46	50
d2	40	40	50	50
d3	27	30	33	43
A	10	12	15	23

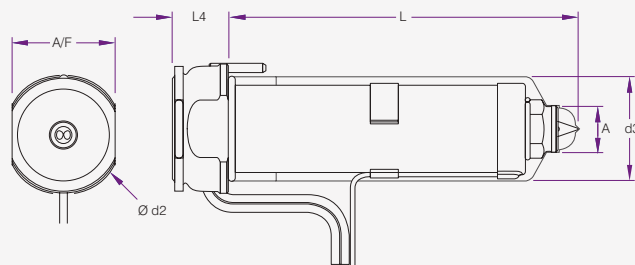


BX nozzle is designed to provide a cost sensitive solution to single & multicavity applications.

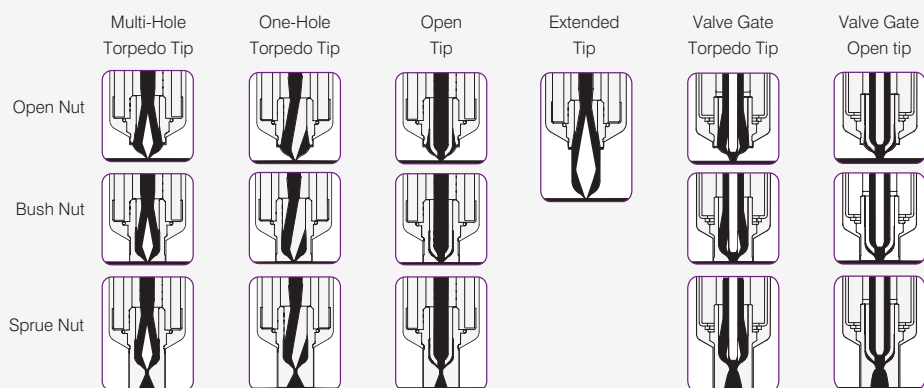
Gating Options



	13 Series	16 Series	19 Series	27 Series
L	45	45		
	55	55	55	
	65	65	65	
	75	75	75	75
	95	95	95	95
	115	115	115	115
	145	145	145	145
	175	175	175	175
				225
A	10	12	15	23
A/F	31	34	36	45
d2	34	38	40	50
d3	27	30	33	43
L4	12	12	15	20



Gating Options

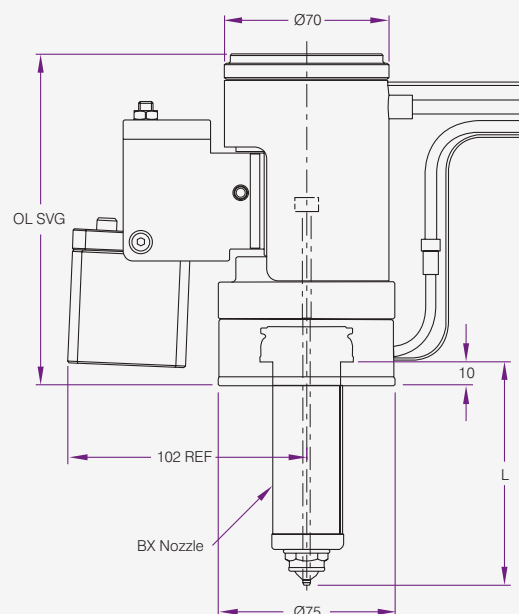


	13 Series	16 Series	19 Series
L	45	45	
	55	55	55
	65	65	65
	75	75	75
	95	95	95
	115	115	115
	145	145	145
	175	175	175
A/F	24	26	36
d2	28	30	40
d3	22.9	24.9	31.5
L4	12	12	15
A	10	12	15



SVG Single Inline Air Actuated
Valvegate Assembly

Gating Options

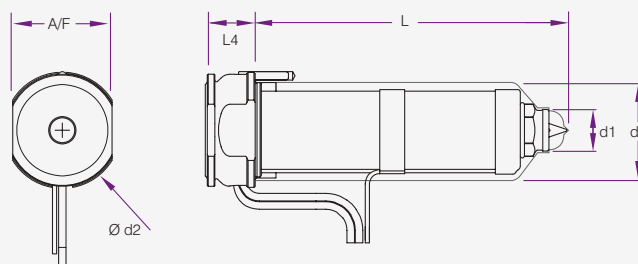
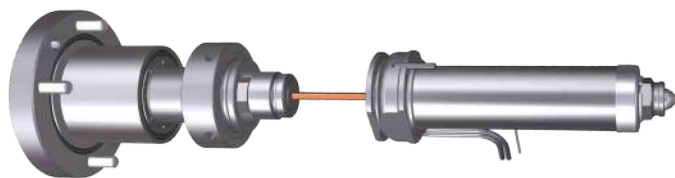


Nozzle Compatibility

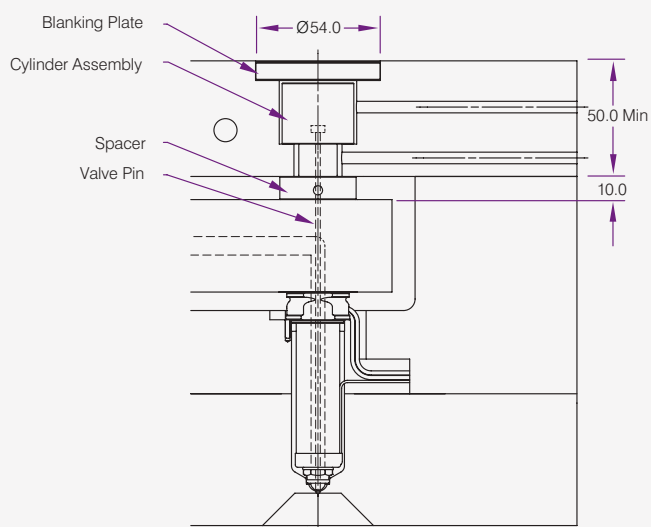
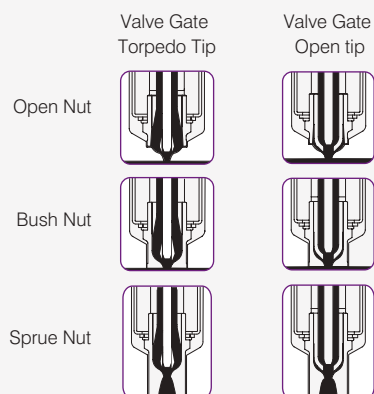
	16 Series	19 Series	27 Series
L	55	55	
	65	65	
	65	65	65
	75	75	75
	95	95	95
	115	115	115
	145	145	145

Valve Gate Compatibility

	16 Series BX	19 Series BX	27 Series BX
Model	SVG 33	SVG 33	SVG 33
Actuation Type	Pneumatic	Pneumatic	Pneumatic
Pin Size	2.5	3.0	5.0
Stroke	10	10	10
OL SWG	138	141	146



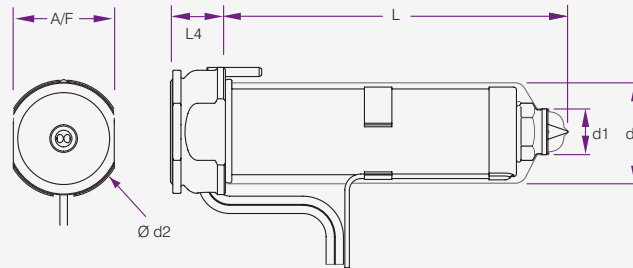
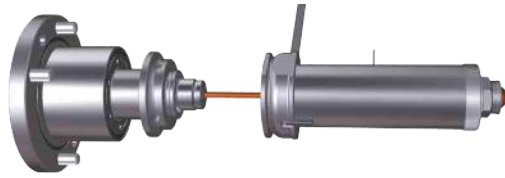
Gating Options



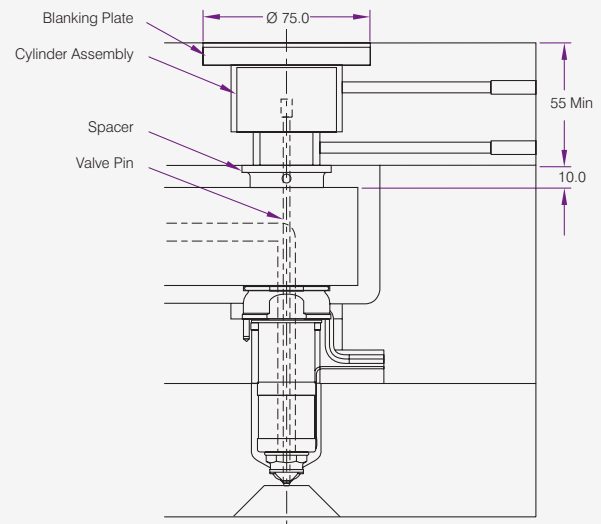
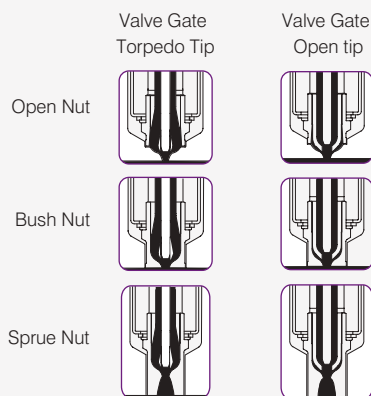
Valve Gate Compatibility		
	13 Series* MX / BX	16 Series MX / BX
Model	MVG25 - 2.0	MVG25 - 2.5
Actuation Type	Pneumatic	Pneumatic
Pin Size	2.0	2.5
Stroke	7	7

	13 Series		16 Series	
	MX	BX	MX	BX
L	45	45	45	45
	55	55	55	55
	65	65	65	65
	75	75	75	75
	95	95	95	95
	115	115	115	115
	145	145	145	145
	175	175	175	175
A/F	24	31	26	34
d1	10	10	12	12
d2	28	34	30	38
d3	22.9	27	24.9	30
L4	12	12	12	12

* 13 Series available in open nut and open tip only



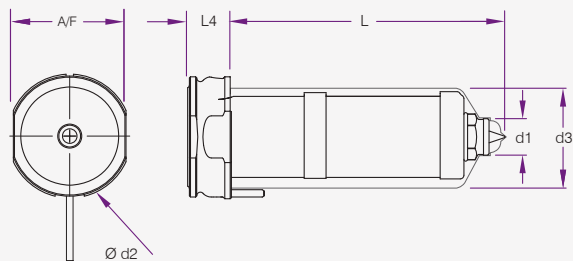
Gating Options



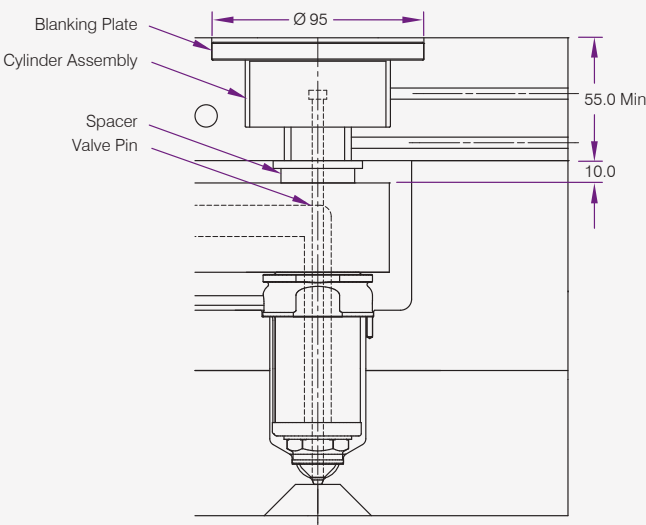
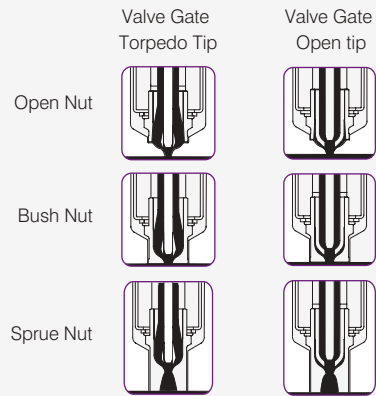
Valve Gate Compatibility				
	13 Series* MX / BX	16 Series MX / BX	19 Series MX / BX	27 Series BX
Model	MVG40 - 2.0	MVG40 - 2.5	MVG40 - 3.0	MVG40 - 5.0
Actuation Type	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Pin Size	2.0	2.5	3.0	5.0
Stroke	10	10	10	10

	13 Series		16 Series		19 Series		27 Series
	MX	BX	MX	BX	MX	BX	BX
L	45	45	45	45			
	55	55	55	55	55	55	
	65	65	65	65	65	65	
	75	75	75	75	75	75	75
	95	95	95	95	95	95	95
	115	115	115	115	115	115	115
	145	145	145	145	145	145	145
A/F	24	31	26	34	36	36	45
d1	10	10	12	12	15	15	23
d2	28	34	30	38	40	40	50
d3	22.9	27	24.9	30	31.5	33	43
L4	12	12	12	12	15	15	20

* 13 Series available in open nut and open tip only



Gating Options



Valve Gate Assembly	
	27 Series BX
Model	MVG55 - 5.0
Actuation Type	Pneumatic
Pin Size	5.0
Stroke	10

	27 Series
	BX
L	75
	95
	115
	145
	175
	225
	275
A/F	40
d1	23
d2	50
d3	43
L4	10