



Every step of the way



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Polivalve



50 Series

Standard System	2
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200 Series

Standard System	4
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500 Series

Standard System	6
Facility System	8

800 Series

Standard System	10
Facility System	13

1000 Series

Standard System	16
Facility System	19

Tips

Series 50, 200, 500, 800, 1000	22
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Cylinders

Hydraulic cylinders - Series 50	24
Hydraulic cylinders - Series 200/500	25
Hydraulic cylinders - Series 800/1000	26
Pneumatic cylinders - Series 200/500	27
Pneumatic cylinders - Series 800/1000	28
Hoses	29
Pneumatic Unit	30
Info	31



PHV-HVP

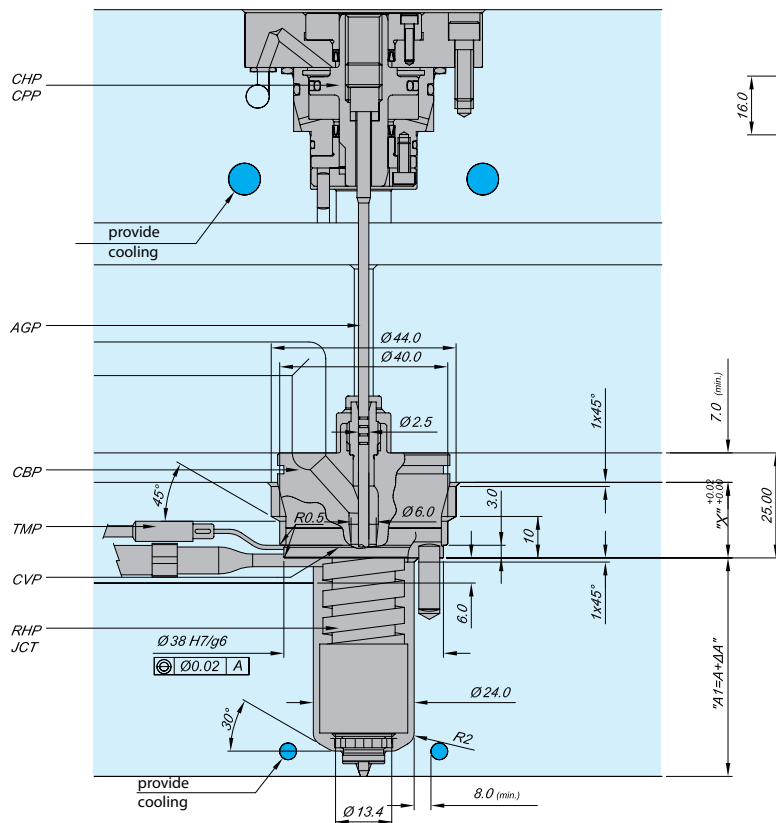
Standard system

Heater options

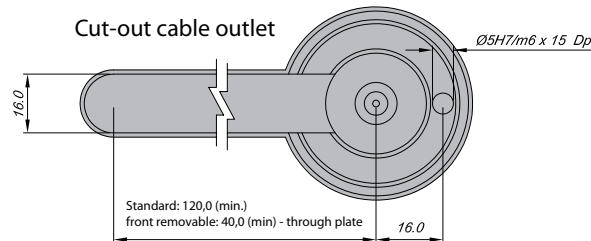
Standard type



Front removable Ref + F

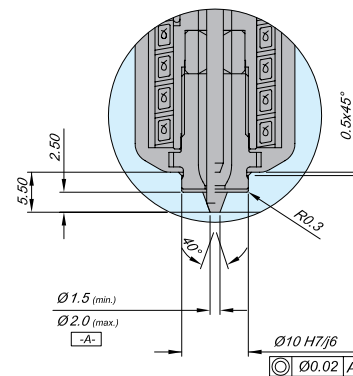


Cut-out cable outlet

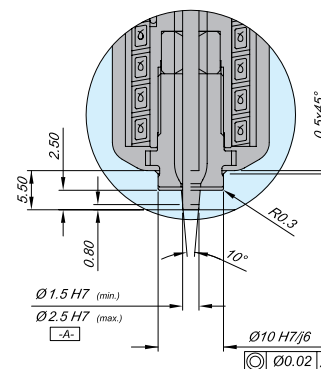


Gating options

Conical valve pin



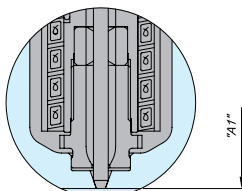
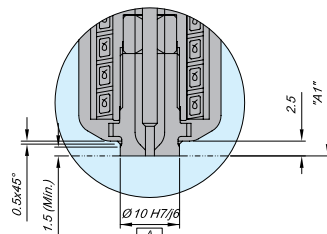
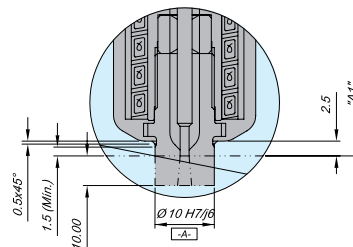
Cylindrical valve pin



Nozzle specification + components

		REF	"A" mm		Components					
			PVMs	PMA _s	Nozzle body	Head	Heater	Sleeve	Wattage @ 230 VAC	Thermo- couple
Heater options	Standard Type	PHV-HVP06052	51,50	48,50	CVP06052	CBP06001	RHP05040	JCT05040	260W	TMP01080
		PHV-HVP06067	66,50	63,50	CVP06067		RHP05055	JCT05050	260W	TMP01100
		PHV-HVP06092	91,50	88,50	CVP06092		RHP05080	JCT05050	350W	TMP01120
		PHV-HVP06115	114,50	111,50	CVP06115		RHP05105	JCT05100	350W	TMP01140
	Front removable Type F	PHV-HVP06052F	51,50	48,50	CVP06052		RHP05040F	JCT05040	260W	TMP01080
		PHV-HVP06067F	66,50	63,50	CVP06067		RHP05055F	JCT05050	260W	TMP01100
		PHV-HVP06092F	91,50	88,50	CVP06092		RHP05080F	JCT05050	350W	TMP01120
		PHV-HVP06115F	114,50	111,50	CVP06115		RHP05105F	JCT05100	350W	TMP01140

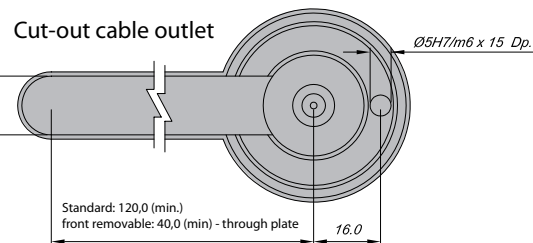
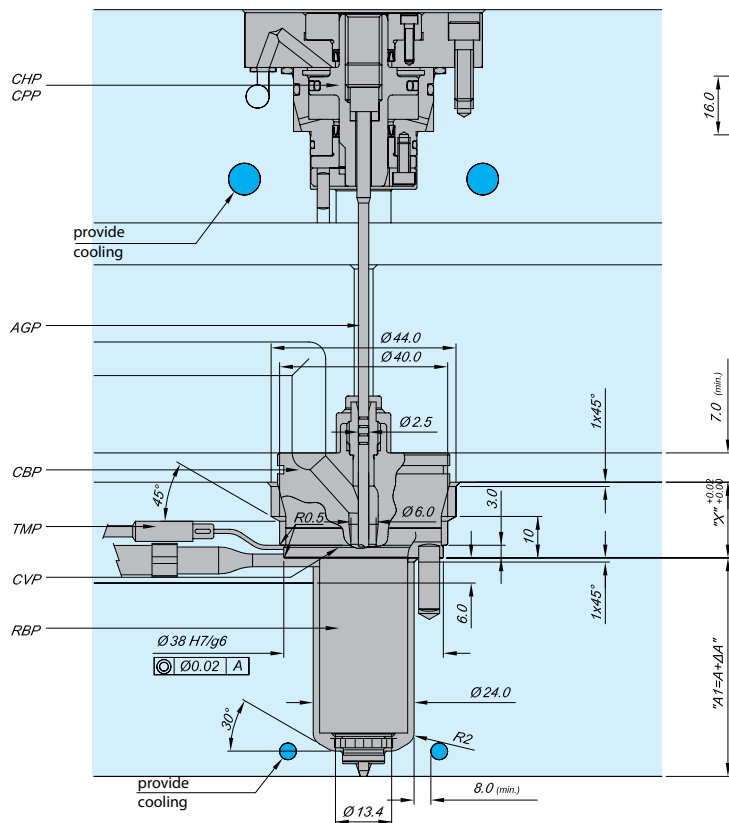
Tip options

PVMs
Bodyless tipPMAs
Standard tipPMAs
Extended tip

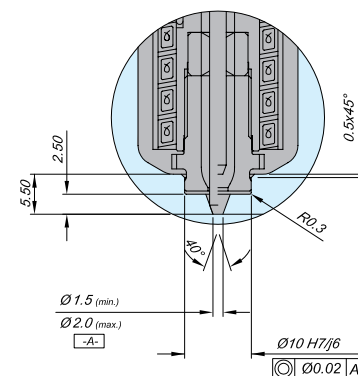
Standard system

PHV-BVP

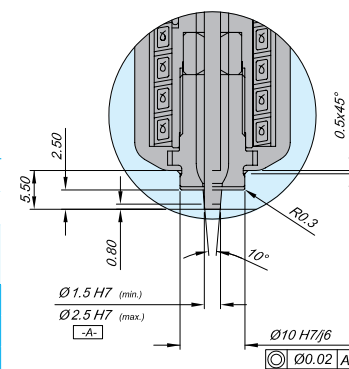
Heater options	
Standard type	Front removable Ref + F



Gating options
Conical valve pin



Cylindrical valve pin

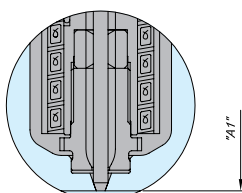


Nozzle specification + components

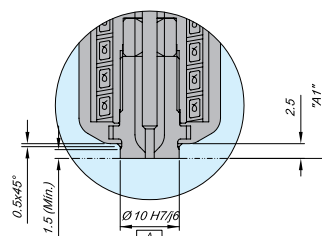
		"A" mm		Components				
Heater options	REF	PVMs	PMAs	Nozzle body	Head	Heater	Wattage @ 230 VAC	Thermo-couple
Standard Type	PHV-BVP06052	51,50	48,50	CVP06052	CBP06001	RBP05040	260W	TMP01080
	PHV-BVP06067	66,50	63,50	CVP06067		RBP05055	350W	TMP01100
	PHV-BVP06092	91,50	88,50	CVP06092		RBP05080	460W	TMP01120
	PHV-BVP06115	114,50	111,50	CVP06115		RBP05105	610W	TMP01140
	PHV-BVP06052F	51,50	48,50	CVP06052		RBP05040F	260W	TMP01080
	PHV-BVP06067F	66,50	63,50	CVP06067		RBP05055F	350W	TMP01100
	PHV-BVP06092F	91,50	88,50	CVP06092		RBP05080F	460W	TMP01120
	PHV-BVP06115F	114,50	111,50	CVP06115		RBP05105F	610W	TMP01140
Front removable Type F								

Tip options

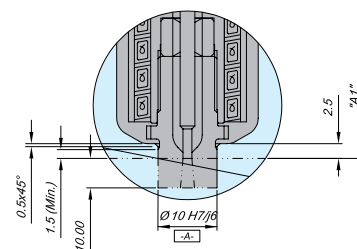
PVMs
Bodyless tip



PMAs
Standard tip



PMAs
Extended tip

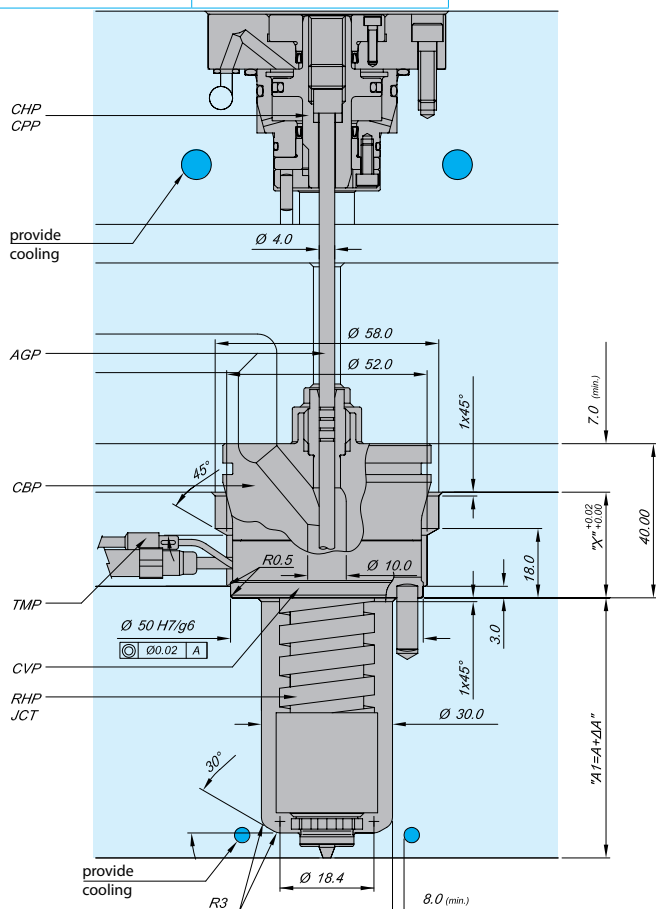




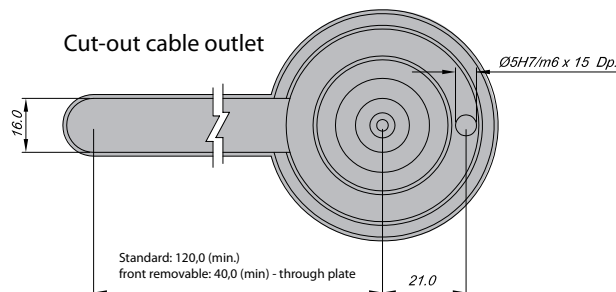
PHV-HVP

Standard system

Heater options	
Standard type	Front removable Ref + F

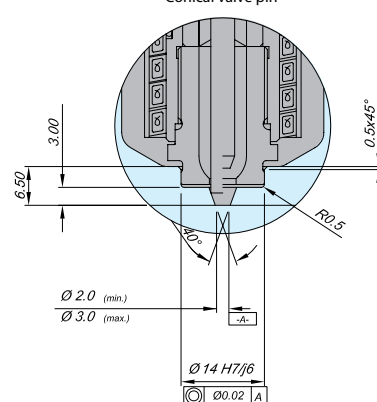


Cut-out cable outlet

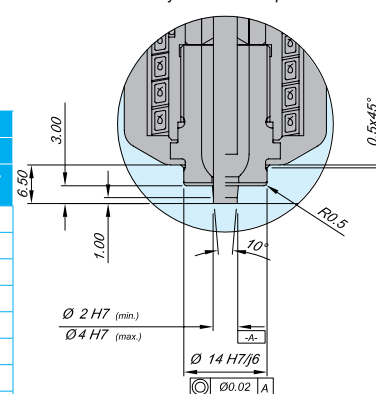


Gating options

Conical valve pin



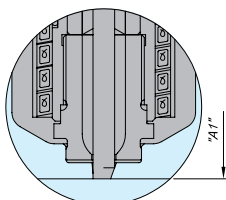
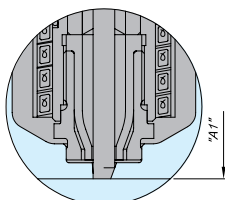
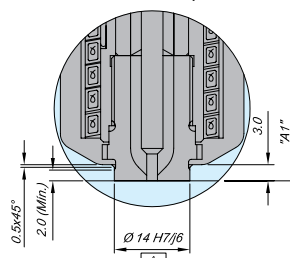
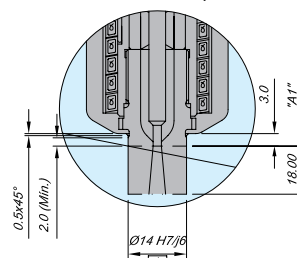
Cylindrical valve pin



Nozzle specification + components

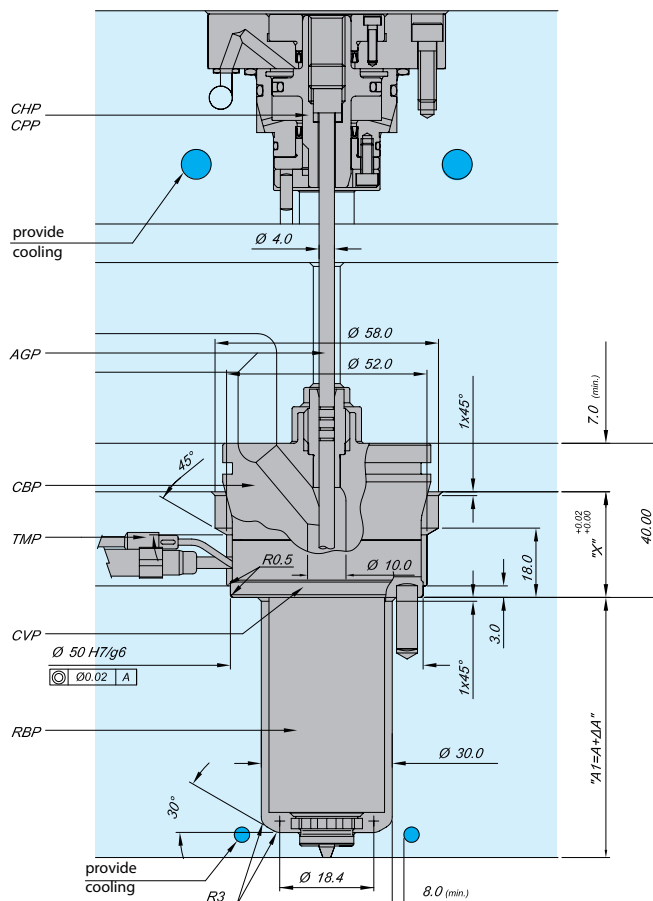
		Nozzle specification + components								
		REF	"A" mm		Components					
			PVMs	PMAs	Nozzle body	Head	Heater	Sleeve	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-HVP10055	55,00	51,50	CVP10055	CBP10001	RHP06049	JCT06051	350W	TMP01080
		PHV-HVP10067	67,50	64,00	CVP10067		RHP06062	JCT06051	400W	TMP01100
		PHV-HVP10080	80,00	76,50	CVP10080		RHP06075	JCT06051	460W	TMP01120
		PHV-HVP10092	92,50	89,00	CVP10092		RHP06087	JCT06051	460W	TMP01140
		PHV-HVP10117	117,50	114,00	CVP10117		RHP06113	JCT06101	610W	TMP01160
		PHV-HVP10142	142,50	139,00	CVP10142		RHP06138	JCT06101	610W	TMP01180
		PHV-HVP10155	155,00	151,50	CVP10155		RHP06150	JCT06101	610W	TMP01200
	Front removable Type F	PHV-HVP10055F	55,00	51,50	CVP10055		RHP06049F	JCT06051	350W	TMP01080
		PHV-HVP10067F	67,50	64,00	CVP10067		RHP06062F	JCT06051	400W	TMP01100
		PHV-HVP10080F	80,00	76,50	CVP10080		RHP06075F	JCT06051	460W	TMP01120
		PHV-HVP10092F	92,50	89,00	CVP10092		RHP06087F	JCT06051	460W	TMP01140
		PHV-HVP10117F	117,50	114,00	CVP10117		RHP06113F	JCT06101	610W	TMP01160
		PHV-HVP10142F	142,50	139,00	CVP10142		RHP06138F	JCT06101	610W	TMP01180
		PHV-HVP10155F	155,00	151,50	CVP10155		RHP06150F	JCT06101	610W	TMP01200

Tip options

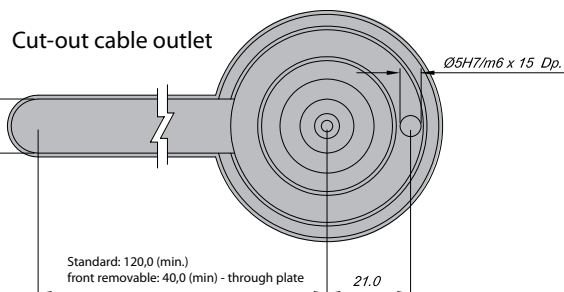
PVMs
Bodyless tipPVMs
High performance tipPMAs
Standard tipPMAs
Extended tip

Standard system

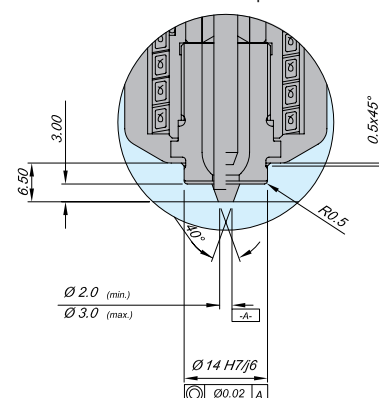
PHV-BVP



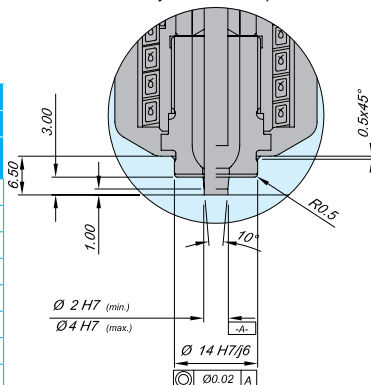
Heater options	
Standard type	Front removable Ref + F



Gating options
Conical valve pin



Cylindrical valve pin

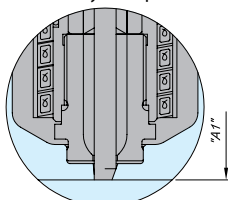


Nozzle specification + components

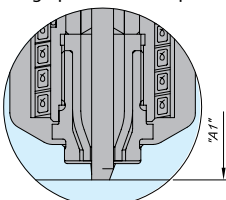
Heater options	REF	"A" mm		Components			
		PVMs	PMA	Nozzle body	Head	Heater	Wattage @ 230 VAC
Standard Type	PHV-BVP10055	55,00	51,50	CVP10055	CBP10001	RBP06052	460W
	PHV-BVP10067	67,50	64,00	CVP10067		RBP06064	460W
	PHV-BVP10080	80,00	76,50	CVP10080		RBP06077	690W
	PHV-BVP10092	92,50	89,00	CVP10092		RBP06090	690W
	PHV-BVP10117	117,50	114,00	CVP10117		RBP06115	760W
	PHV-BVP10142	142,50	139,00	CVP10142		RBP06140	1100W
	PHV-BVP10155	155,00	151,50	CVP10155		RBP06152	1100W
	PHV-BVP10055F	55,00	51,50	CVP10055		RBP06052F	460W
	PHV-BVP10067F	67,50	64,00	CVP10067		RBP06064F	460W
	PHV-BVP10080F	80,00	76,50	CVP10080		RBP06077F	690W
	PHV-BVP10092F	92,50	89,00	CVP10092		RBP06090F	690W
	PHV-BVP10117F	117,50	114,00	CVP10117		RBP06115F	760W
	PHV-BVP10142F	142,50	139,00	CVP10142		RBP06140F	1100W
	PHV-BVP10155F	155,00	151,50	CVP10155		RBP06152F	1100W
Front removable Type F							

Tip options

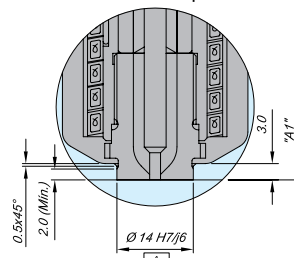
PVMs
Bodyless tip



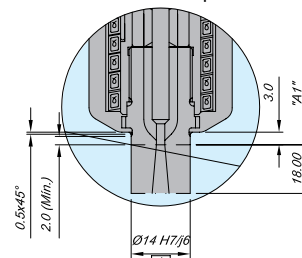
PVMs
High performance tip



PMA
Standard tip



PMA
Extended tip

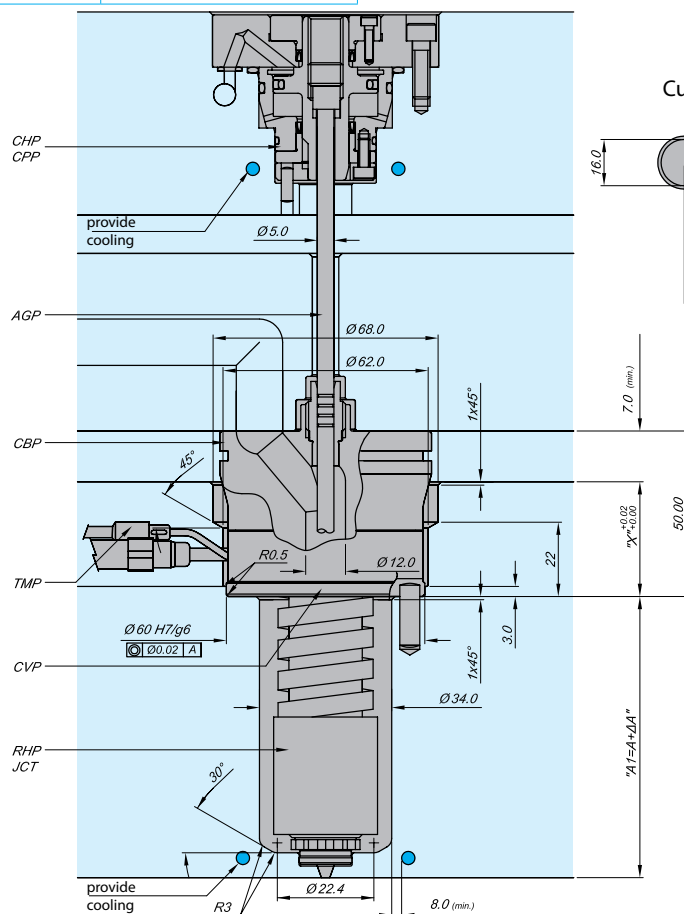




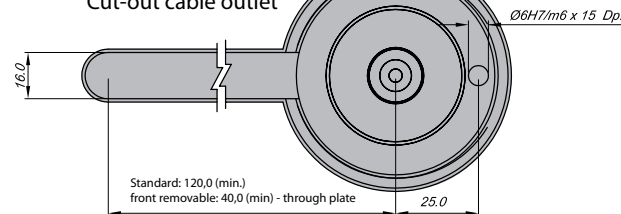
PHV-HVP

Standard system

Heater options	
Standard type	Front removable Ref + F

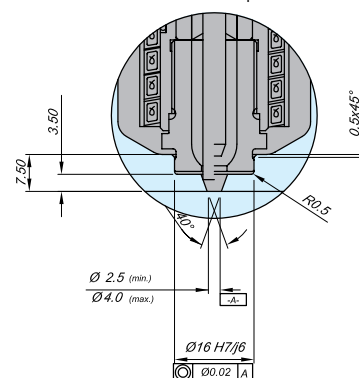


Cut-out cable outlet

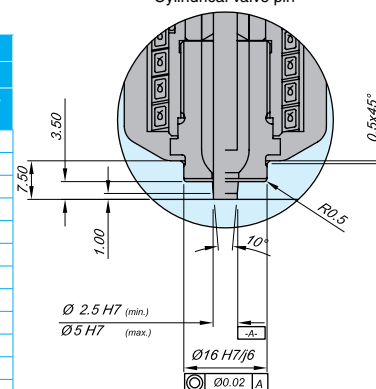


Gating options

Conical valve pin



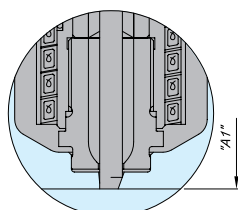
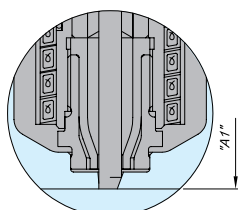
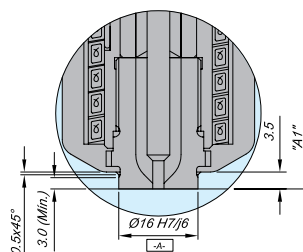
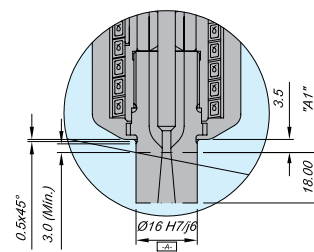
Cylindrical valve pin



Nozzle specification + components

		"A" mm		Components						
		REF	PVMs	PMA	Nozzle body	Head	Heater	Sleeve	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-HVP12058	58,00	54,00	CVP12058	CBP12001	RHP10054	JCT10050	400W	TMP01080
		PHV-HVP12070	70,50	66,50	CVP12070		RHP10067	JCT10050	400W	TMP01100
		PHV-HVP12083	83,00	79,00	CVP12083		RHP10080	JCT10050	500W	TMP01120
		PHV-HVP12095	95,50	91,50	CVP12095		RHP10092	JCT10050	690W	TMP01140
		PHV-HVP12108	108,00	104,00	CVP12108		RHP10105	JCT10100	690W	TMP01160
		PHV-HVP12133	133,00	129,00	CVP12133		RHP10130	JCT10100	760W	TMP01180
		PHV-HVP12159	159,00	155,00	CVP12159		RHP10156	JCT10100	760W	TMP01200
		PHV-HVP12185	185,00	181,00	CVP12185		RHP10181	JCT10100	850W	TMP01220
	Front removable Type F	PHV-HVP12058F	58,00	54,00	CVP12058		RHP10054F	JCT10050	400W	TMP01080
		PHV-HVP12070F	70,50	66,50	CVP12070		RHP10067F	JCT10050	400W	TMP01100
		PHV-HVP12083F	83,00	79,00	CVP12083		RHP10080F	JCT10050	500W	TMP01120
		PHV-HVP12095F	95,50	91,50	CVP12095		RHP10092F	JCT10050	690W	TMP01140
		PHV-HVP12108F	108,00	104,00	CVP12108		RHP10105F	JCT10100	690W	TMP01160
		PHV-HVP12133F	133,00	129,00	CVP12133		RHP10130F	JCT10100	760W	TMP01180
		PHV-HVP12159F	159,00	155,00	CVP12159		RHP10156F	JCT10100	760W	TMP01200
		PHV-HVP12185F	185,00	181,00	CVP12185		RHP10181F	JCT10100	850W	TMP01220

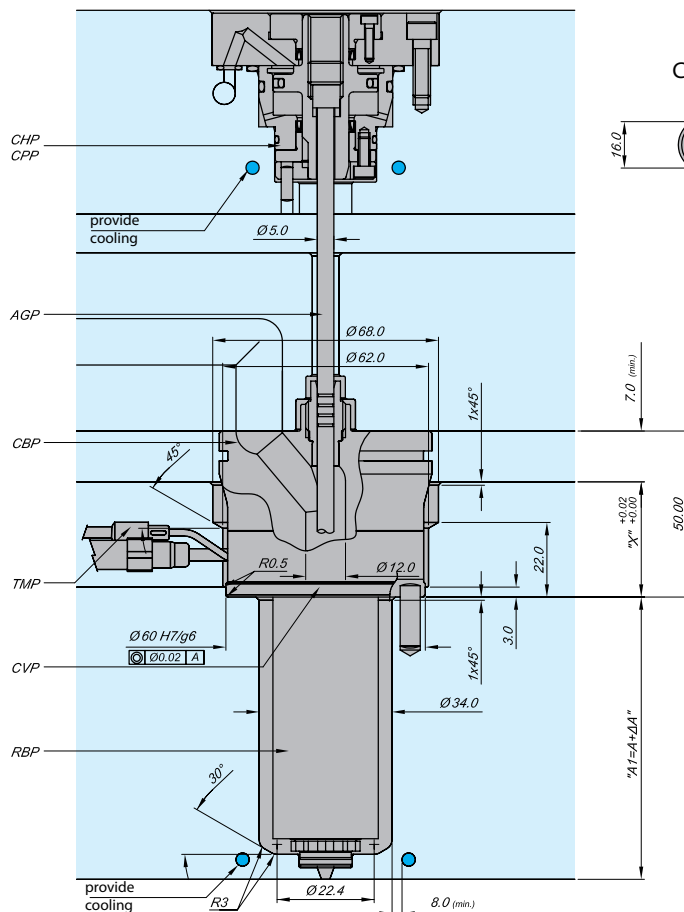
Tip options

PVMs
Bodyless tipPVMs
High performance tipPMA
Standard tipPMA
Extended tip

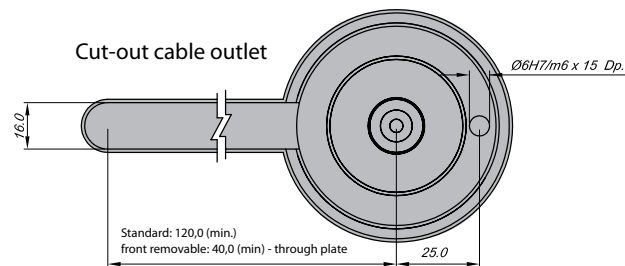
Standard system

PHV-BVP

Heater options	
Standard type	Front removable Ref + F

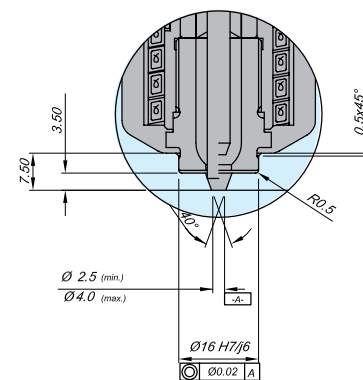


Cut-out cable outlet

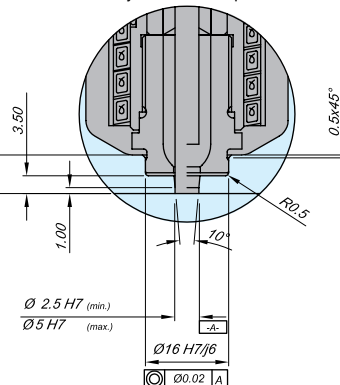


Gating options

Conical valve pin



Cylindrical valve pin

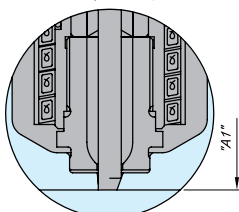


Nozzle specification + components

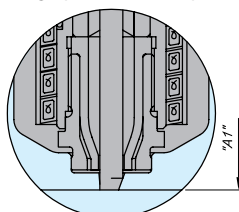
		Nozzle specification + components							
		REF	"A" mm		Components				
			PVMs	PMAs	Nozzle body	Head	Heater	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-BVP12058	58,00	54,00	CVP12058	CBP12001	RBP10056	500W	TMP01080
		PHV-BVP12070	70,50	66,50	CVP12070		RBP10069	690W	TMP01100
		PHV-BVP12083	83,00	79,00	CVP12083		RBP10081	760W	TMP01120
		PHV-BVP12095	95,50	91,50	CVP12095		RBP10094	760W	TMP01140
		PHV-BVP12108	108,00	104,00	CVP12108		RBP10107	760W	TMP01160
		PHV-BVP12133	133,00	129,00	CVP12133		RBP10131	850W	TMP01180
		PHV-BVP12159	159,00	155,00	CVP12159		RBP10158	1100W	TMP01200
		PHV-BVP12185	185,00	181,00	CVP12185		RBP10183	1300W	TMP01220
	Front removable Type F	PHV-BVP12058F	58,00	54,00	CVP12058		RBP10056F	500W	TMP01080
		PHV-BVP12070F	70,50	66,50	CVP12070		RBP10069F	690W	TMP01100
		PHV-BVP12083F	83,00	79,00	CVP12083		RBP10081F	760W	TMP01120
		PHV-BVP12095F	95,50	91,50	CVP12095		RBP10094F	760W	TMP01140
		PHV-BVP12108F	108,00	104,00	CVP12108		RBP10107F	760W	TMP01160
		PHV-BVP12133F	133,00	129,00	CVP12133		RBP10131F	850W	TMP01180
		PHV-BVP12159F	159,00	155,00	CVP12159		RBP10158F	1100W	TMP01200
		PHV-BVP12185F	185,00	181,00	CVP12185		RBP10183F	1300W	TMP01220

Tip options

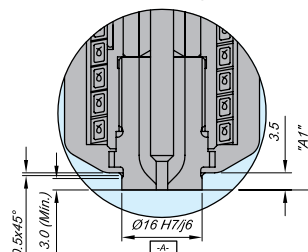
PVMs
Bodyless tip



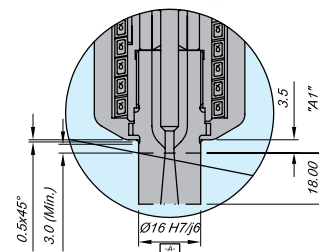
PVMs
High performance tip



PMA
Standard tip



PMA
Extended tip





PHV-HVE

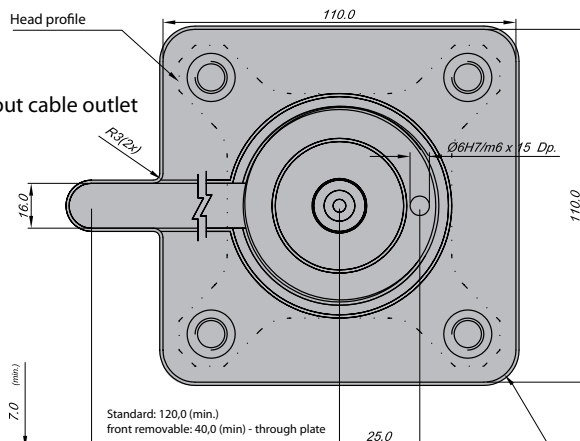
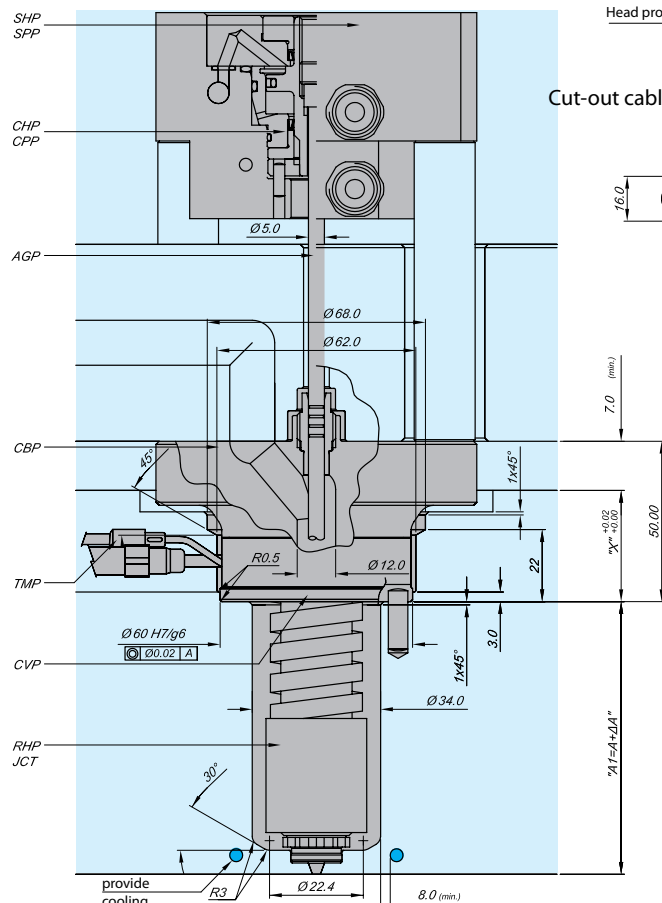
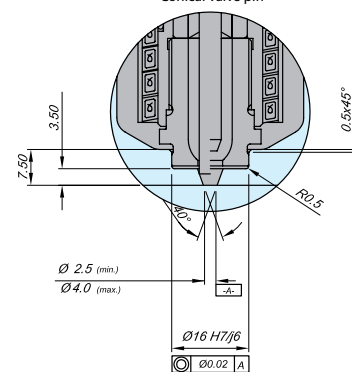
Facility system

Heater options

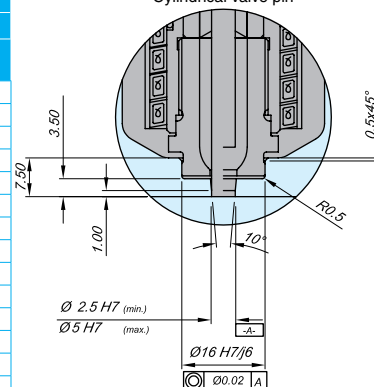
Standard type



Front removable Ref + F

Gating options
Conical valve pin

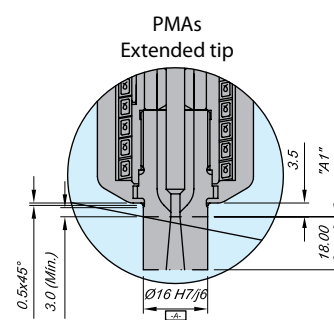
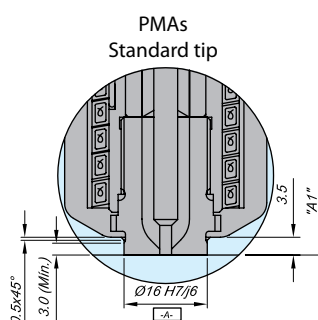
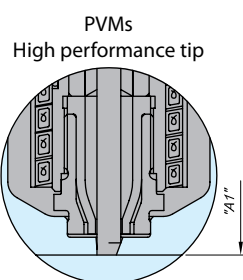
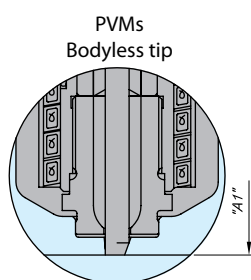
Cylindrical valve pin



Nozzle specification + components

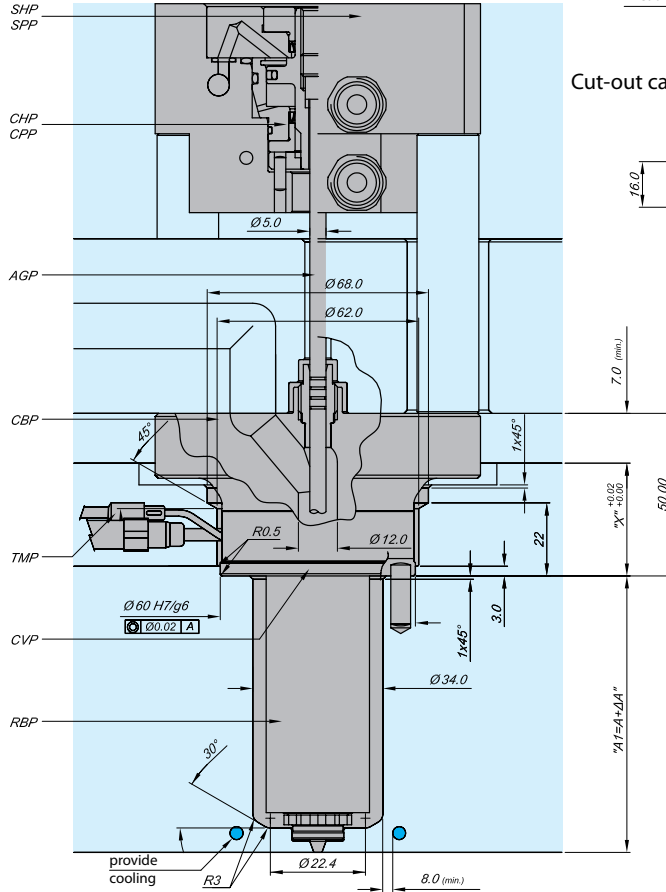
Heater options	Standard Type	"A" mm		Components						
		REF	PVMs	PMA	Nozzle body	Head	Heater	Sleeve	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-HVE12058	58,00	54,00	CVP12058	CBP12001	RHP10054	JCT10050	400W	TMP01080
		PHV-HVE12070	70,50	66,50	CVP12070		RHP10067	JCT10050	400W	TMP01100
		PHV-HVE12083	83,00	79,00	CVP12083		RHP10080	JCT10050	500W	TMP01120
		PHV-HVE12095	95,50	91,50	CVP12095		RHP10092	JCT10050	690W	TMP01140
		PHV-HVE12108	108,00	104,00	CVP12108		RHP10105	JCT10100	690W	TMP01160
		PHV-HVE12133	133,00	129,00	CVP12133		RHP10130	JCT10100	760W	TMP01180
		PHV-HVE12159	159,00	155,00	CVP12159		RHP10156	JCT10100	760W	TMP01200
		PHV-HVE12185	185,00	181,00	CVP12185		RHP10181	JCT10100	850W	TMP01220
	Front removable Type F	PHV-HVE12058F	58,00	54,00	CVP12058		RHP10054F	JCT10050	400W	TMP01080
		PHV-HVE12070F	70,50	66,50	CVP12070		RHP10067F	JCT10050	400W	TMP01100
		PHV-HVE12083F	83,00	79,00	CVP12083		RHP10080F	JCT10050	500W	TMP01120
		PHV-HVE12095F	95,50	91,50	CVP12095		RHP10092F	JCT10050	690W	TMP01140
		PHV-HVE12108F	108,00	104,00	CVP12108		RHP10105F	JCT10100	690W	TMP01160
		PHV-HVE12133F	133,00	129,00	CVP12133		RHP10130F	JCT10100	760W	TMP01180
		PHV-HVE12159F	159,00	155,00	CVP12159		RHP10156F	JCT10100	760W	TMP01200
		PHV-HVE12185F	185,00	181,00	CVP12185		RHP10181F	JCT10100	850W	TMP01220

Tip options

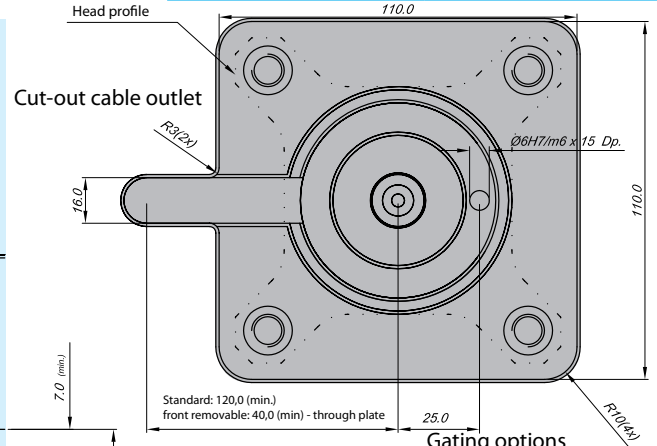


Facility system

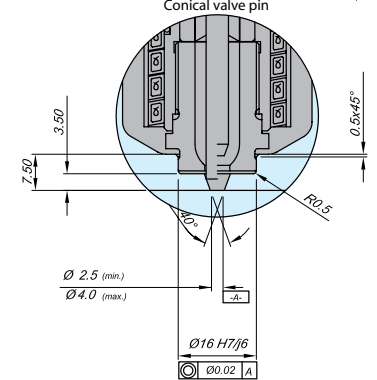
PHV-BVE



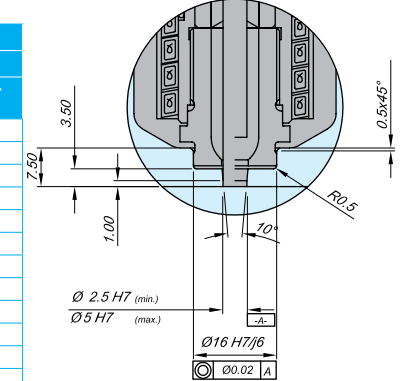
Heater options	
Standard type	Front removable Ref + F



Gating options



Cylindrical valve pin

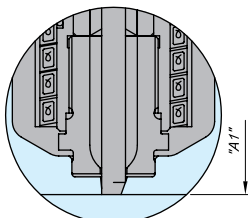


Nozzle specification + components

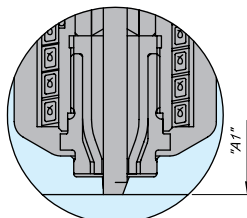
			"A" mm		Components				
		REF	PVMs	PMA's	Nozzle body	Head	Heater	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-BVE12058	58,00	54,00	CVP12058	CBP12001	RBP10056	500W	TMP01080
		PHV-BVE12070	70,50	66,50	CVP12070		RBP10069	690W	TMP01100
		PHV-BVE12083	83,00	79,00	CVP12083		RBP10081	760W	TMP01120
		PHV-BVE12095	95,50	91,50	CVP12095		RBP10094	760W	TMP01140
		PHV-BVE12108	108,00	104,00	CVP12108		RBP10107	760W	TMP01160
		PHV-BVE12133	133,00	129,00	CVP12133		RBP10131	850W	TMP01180
		PHV-BVE12159	159,00	155,00	CVP12159		RBP10158	1100W	TMP01200
		PHV-BVE12185	185,00	181,00	CVP12185		RBP10183	1300W	TMP01220
	Front removable Type F	PHV-BVE12058F	58,00	54,00	CVP12058		RBP10056F	500W	TMP01080
		PHV-BVE12070F	70,50	66,50	CVP12070		RBP10069F	690W	TMP01100
		PHV-BVE12083F	83,00	79,00	CVP12083		RBP10081F	760W	TMP01120
		PHV-BVE12095F	95,50	91,50	CVP12095		RBP10094F	760W	TMP01140
		PHV-BVE12108F	108,00	104,00	CVP12108		RBP10107F	760W	TMP01160
		PHV-BVE12133F	133,00	129,00	CVP12133		RBP10131F	850W	TMP01180
		PHV-BVE12159F	159,00	155,00	CVP12159		RBP10158F	1100W	TMP01200
		PHV-BVE12185F	185,00	181,00	CVP12185		RBP10183F	1300W	TMP01220

Tip options

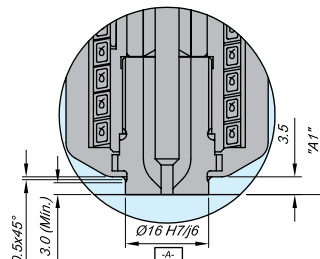
PVMs
Bodyless tip



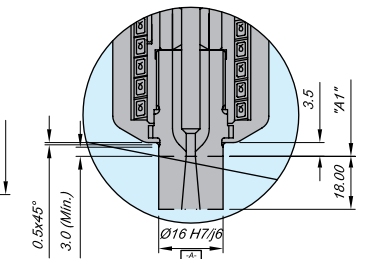
PVMs
High performance tip



PMA's
Standard tip



PMA's
Extended tip





PHV-HVP

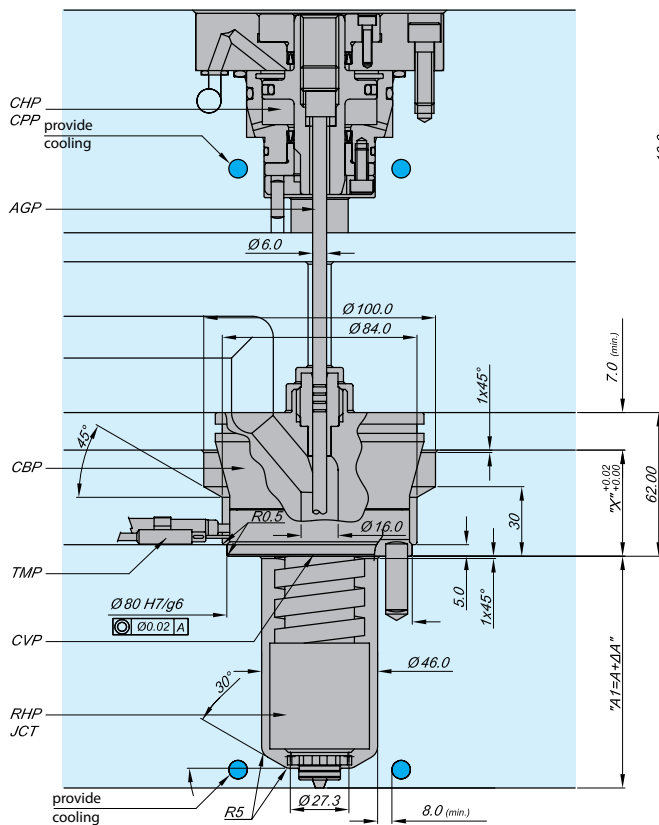
Standard system

Heater options

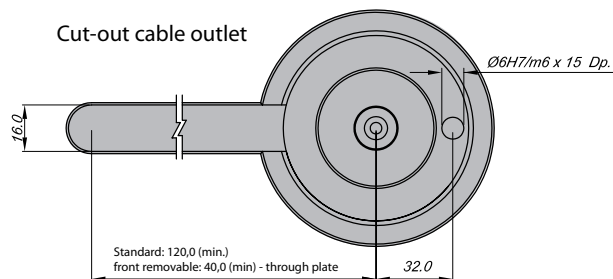
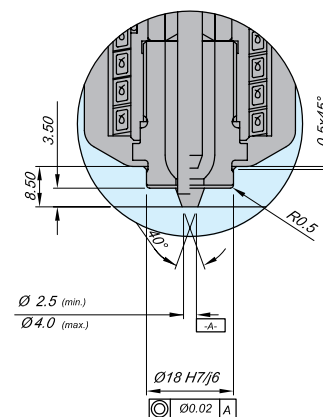
Standard type



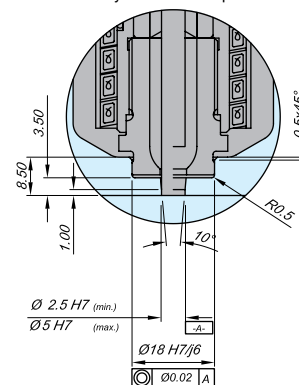
Front removable Ref + F



Cut-out cable outlet

Gating options
Conical valve pin

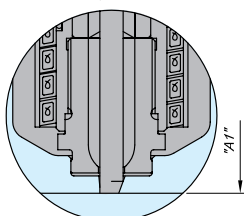
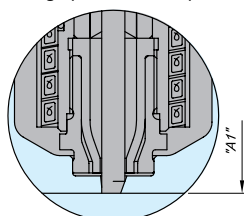
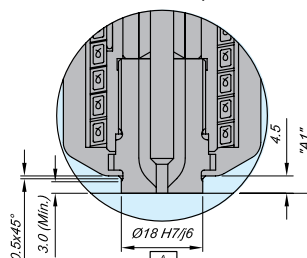
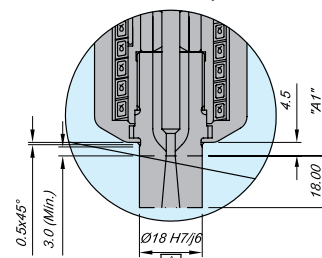
Cylindrical valve pin



Nozzle specification + components

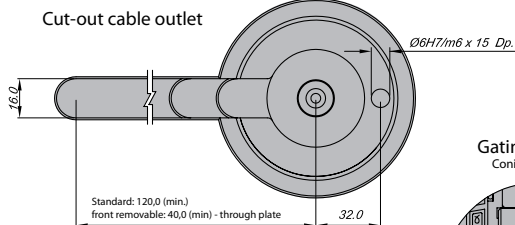
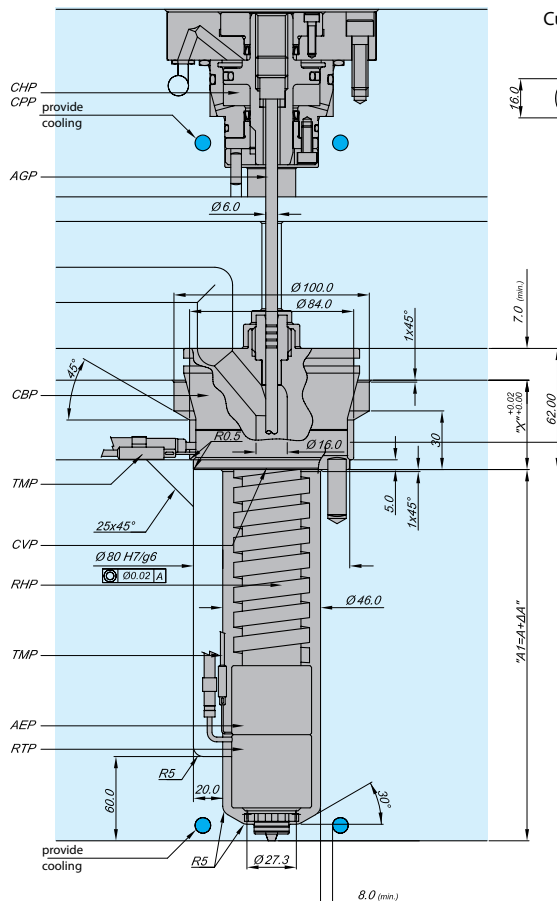
		Nozzle specification + components										
		REF	"A" mm		Components							
			PVMs	PMAs	Nozzle body	Head	Heater	Sleeve	Protection tube	Distance ring	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-HVP16075	75,00	71,00	CVP16075	CBP16001	RHP14070	JCT14050	-	-	610W	TMP01100
		PHV-HVP16100	100,00	96,00	CVP16100		RHP14095	JCT14050	-	-	690W	TMP01120
		PHV-HVP16125	125,00	121,00	CVP16125		RHP14120	JCT14100	-	-	760W	TMP01140
		PHV-HVP16150	150,00	146,00	CVP16150		RHP14145	JCT14100	-	-	850W	TMP01160
		PHV-HVP16175	175,00	171,00	CVP16175		RHP14170	JCT14100	-	-	850W	TMP01180
		PHV-HVP16200	200,00	196,00	CVP16200		RHP14195	JCT14051	TUB14145	AEP14604	900W	TMP01200
		PHV-HVP16225	225,00	221,00	CVP16225		RHP14220	JCT14051	TUB14170	AEP14604	900W	TMP01220
		PHV-HVP16275	275,00	271,00	CVP16275		RHP14270	JCT14051	TUB14220	AEP14604	1100W	TMP01260
	Front removable Type F	PHV-HVP16075F	75,00	71,00	CVP16075		RHP14070F	JCT14050	-	-	610W	TMP01100
		PHV-HVP16100F	100,00	96,00	CVP16100		RHP14095F	JCT14050	-	-	690W	TMP01120
		PHV-HVP16125F	125,00	121,00	CVP16125		RHP14120F	JCT14100	-	-	760W	TMP01140
		PHV-HVP16150F	150,00	146,00	CVP16150		RHP14145F	JCT14100	-	-	850W	TMP01160
		PHV-HVP16175F	175,00	171,00	CVP16175		RHP14170F	JCT14100	-	-	850W	TMP01180
		PHV-HVP16200F	200,00	196,00	CVP16200		RHP14195F	JCT14051	TUB14145	AEP14604	900W	TMP01200
		PHV-HVP16225F	225,00	221,00	CVP16225		RHP14220F	JCT14051	TUB14170	AEP14604	900W	TMP01220
		PHV-HVP16275F	275,00	271,00	CVP16275		RHP14270F	JCT14051	TUB14220	AEP14604	1100W	TMP01260

Tip options

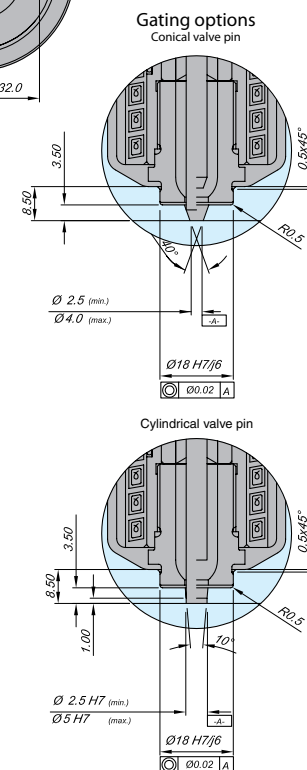
PVMs
Bodyless tipPVMs
High performance tipPMAs
Standard tipPMAs
Extended tip

Standard system

PHV-HVP

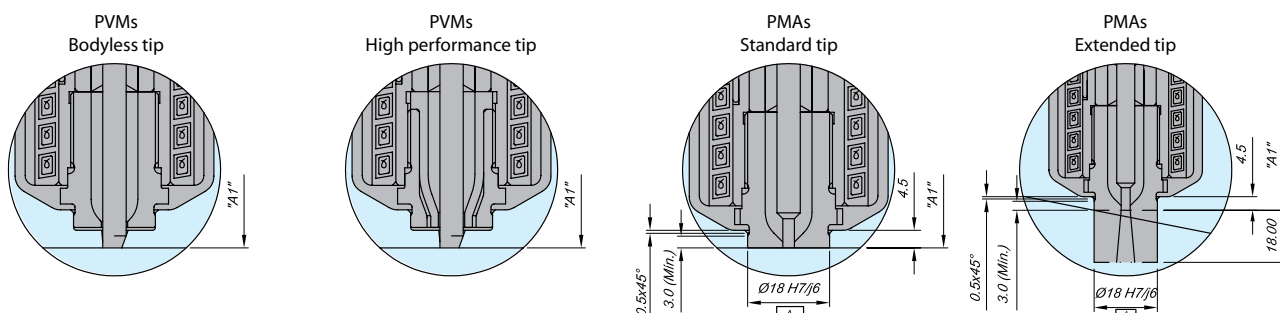


Heater options	
Standard type	Front removable Ref + F



		Nozzle specification + components														
		REF	"A" mm		Components										Distance ring	Thermo-couple
			PVMs	PMA	Nozzle body	Head	Heater	Protection tube	Wattage @ 230 VAC	Thermo-couple	Heater	Wattage @ 230 VAC				
Heater options	Standard Type	PHV-HVP16325	325	321	CVP16325	CBP16001	RHP14220	TUB14220	900W	TMP01300	RTP14045	610W	AEP14603	TMP01080		
		PHV-HVP16375	375	371	CVP16375		RHP14270	TUB14270	1100W	TMP01340						
		PHV-HVP16425	425	421	CVP16425		RHP14320	TUB14320	1100W	TMP01380						
		PHV-HVP16475	475	471	CVP16475		RHP14370	TUB14370	1100W	TMP01420						
	Front removable Type F	PHV-HVP16325F	325	321	CVP16325		RHP14220F	TUB14220	900W	TMP01300						
		PHV-HVP16375F	375	371	CVP16375		RHP14270F	TUB14270	1100W	TMP01340						
		PHV-HVP16425F	425	421	CVP16425		RHP14320F	TUB14320	1100W	TMP01380						
		PHV-HVP16475F	475	471	CVP16475		RHP14370F	TUB14370	1100W	TMP01420						

Tip options





PHV-BVP

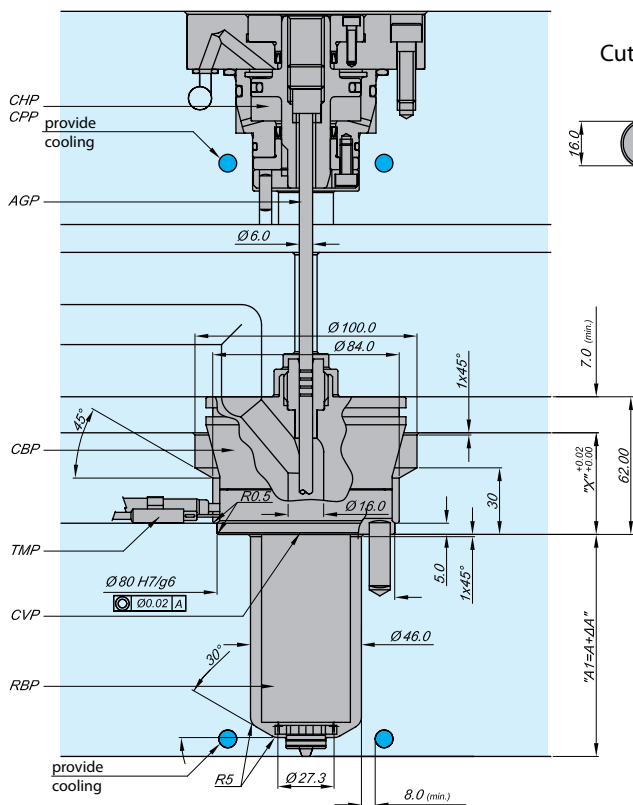
Standard system

Heater options

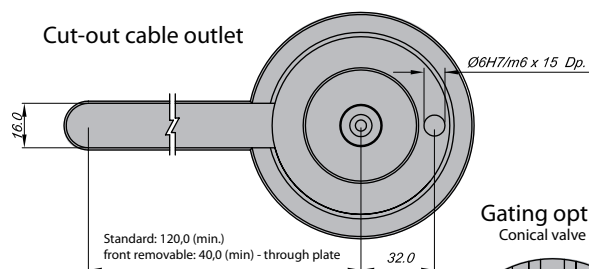
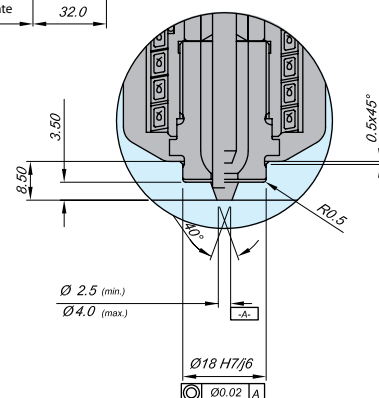
Standard type



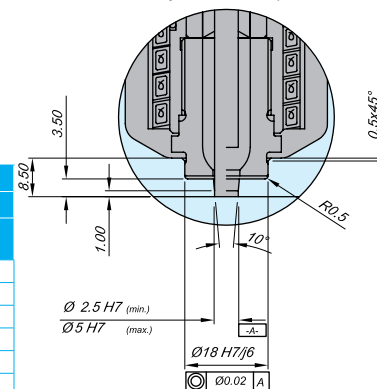
Front removable Ref + F



Cut-out cable outlet

Gating options
Conical valve pin

Cylindrical valve pin

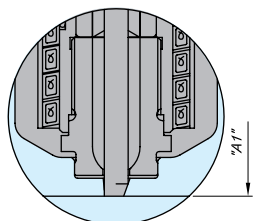


Nozzle specification + components

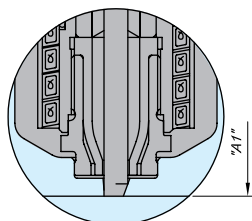
		Nozzle specification + components								
		REF	"A" mm		Components					
			PVMs	PMAs	Nozzle body	Head	Heater	Wattage @ 230 VAC	Thermo-couple	
Heater options	Standard Type	PHV-BVP16075	75	71	CVP16075	CBP16001	RBP14070	850W	TMP01100	
		PHV-BVP16100	100	96	CVP16100		RBP14095	1100W	TMP01120	
		PHV-BVP16125	125	121	CVP16125		RBP14120	1100W	TMP01140	
		PHV-BVP16150	150	146	CVP16150		RBP14145	1300W	TMP01160	
		PHV-BVP16175	175	171	CVP16175		RBP14170	1300W	TMP01080	
	Front removable Type F	PHV-BVP16075F	75	71	CVP16075		RBP14070F	850W	TMP01100	
		PHV-BVP16100F	100	96	CVP16100		RBP14095F	1100W	TMP01120	
		PHV-BVP16125F	125	121	CVP16125		RBP14120F	1100W	TMP01140	
		PHV-BVP16150F	150	146	CVP16150		RBP14145F	1300W	TMP01160	
		PHV-BVP16175F	175	171	CVP16175		RBP14170F	1300W	TMP01080	

Tip options

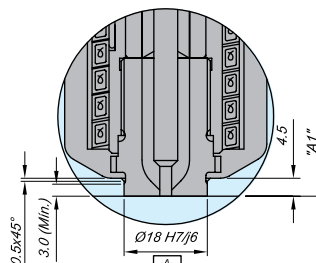
Bodyless tip



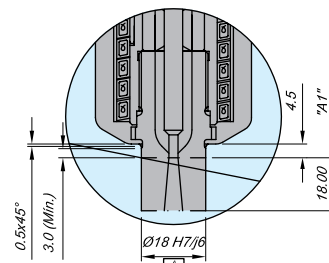
High performance tip



Standard tip

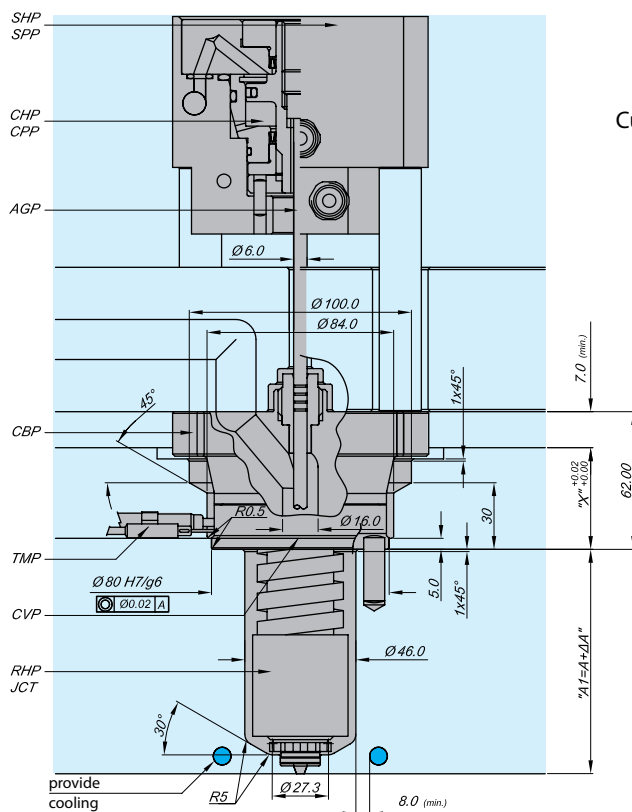


Extended tip

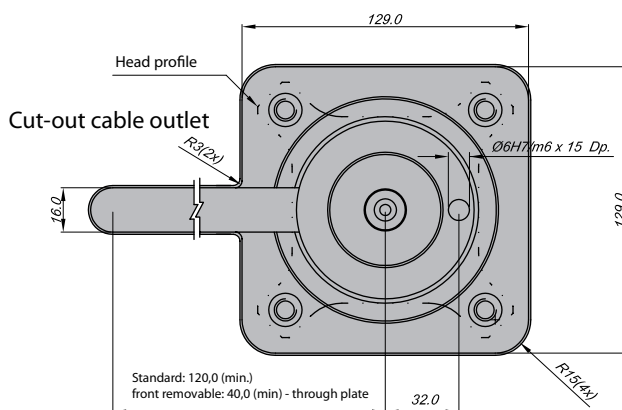


Facility system

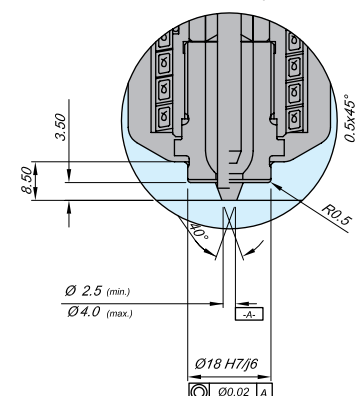
PHV-HVE



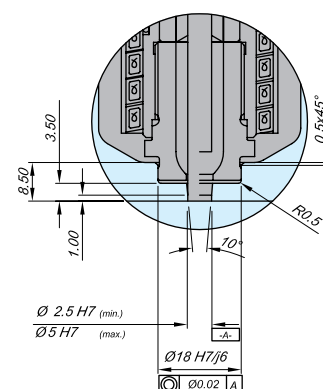
Heater options	
Standard type	Front removable Ref + F



Gating options
Conical valve pin



Cylindrical valve pin

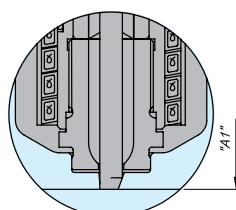


Nozzle specification + components

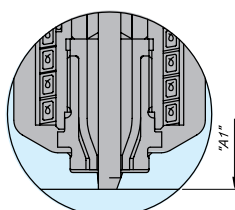
Heater options	REF	"A" mm		Components							
		PVMs	PMAs	Nozzle body	Head	Heater	Sleeve	Protection tube	Distance ring	Wattage @ 230 VAC	Thermo-couple
Standard Type	PHV-HVE16075	75,00	71,00	CVP16075	CBP16010	RHP14070	JCT14050	-	-	610W	TMP01100
	PHV-HVE16100	100,00	96,00	CVP16100		RHP14095	JCT14050	-	-	690W	TMP01120
	PHV-HVE16125	125,00	121,00	CVP16125		RHP14120	JCT14100	-	-	760W	TMP01140
	PHV-HVE16150	150,00	146,00	CVP16150		RHP14145	JCT14100	-	-	850W	TMP01160
	PHV-HVE16175	175,00	171,00	CVP16175		RHP14170	JCT14100	-	-	850W	TMP01180
	PHV-HVE16200	200,00	196,00	CVP16200		RHP14195	JCT14051	TUB14145	AEP14604	900W	TMP01200
	PHV-HVE16225	225,00	221,00	CVP16225		RHP14220	JCT14051	TUB14170	AEP14604	900W	TMP01220
	PHV-HVE16275	275,00	271,00	CVP16275		RHP14270	JCT14051	TUB14220	AEP14604	1100W	TMP01260
	PHV-HVE16075F	75,00	71,00	CVP16075		RHP14070F	JCT14050	-	-	610W	TMP01100
	PHV-HVE16100F	100,00	96,00	CVP16100		RHP14095F	JCT14050	-	-	690W	TMP01120
	PHV-HVE16125F	125,00	121,00	CVP16125		RHP14120F	JCT14100	-	-	760W	TMP01140
	PHV-HVE16150F	150,00	146,00	CVP16150		RHP14145F	JCT14100	-	-	850W	TMP01160
	PHV-HVE16175F	175,00	171,00	CVP16175		RHP14170F	JCT14100	-	-	850W	TMP01180
	PHV-HVE16200F	200,00	196,00	CVP16200		RHP14195F	JCT14051	TUB14145	AEP14604	900W	TMP01200
Front removable Type F	PHV-HVE16225F	225,00	221,00	CVP16225		RHP14220F	JCT14051	TUB14170	AEP14604	900W	TMP01220
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Tip options

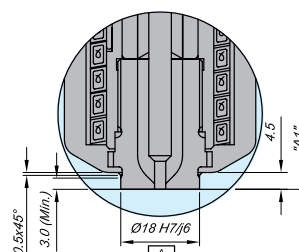
PVMs
Bodyless tip



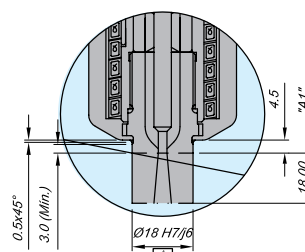
PVMs
High performance tip



PMAs
Standard tip



PMAs
Extended tip





PHV-HVE

Facility system

Heater options

Standard type



Front removable Ref + F



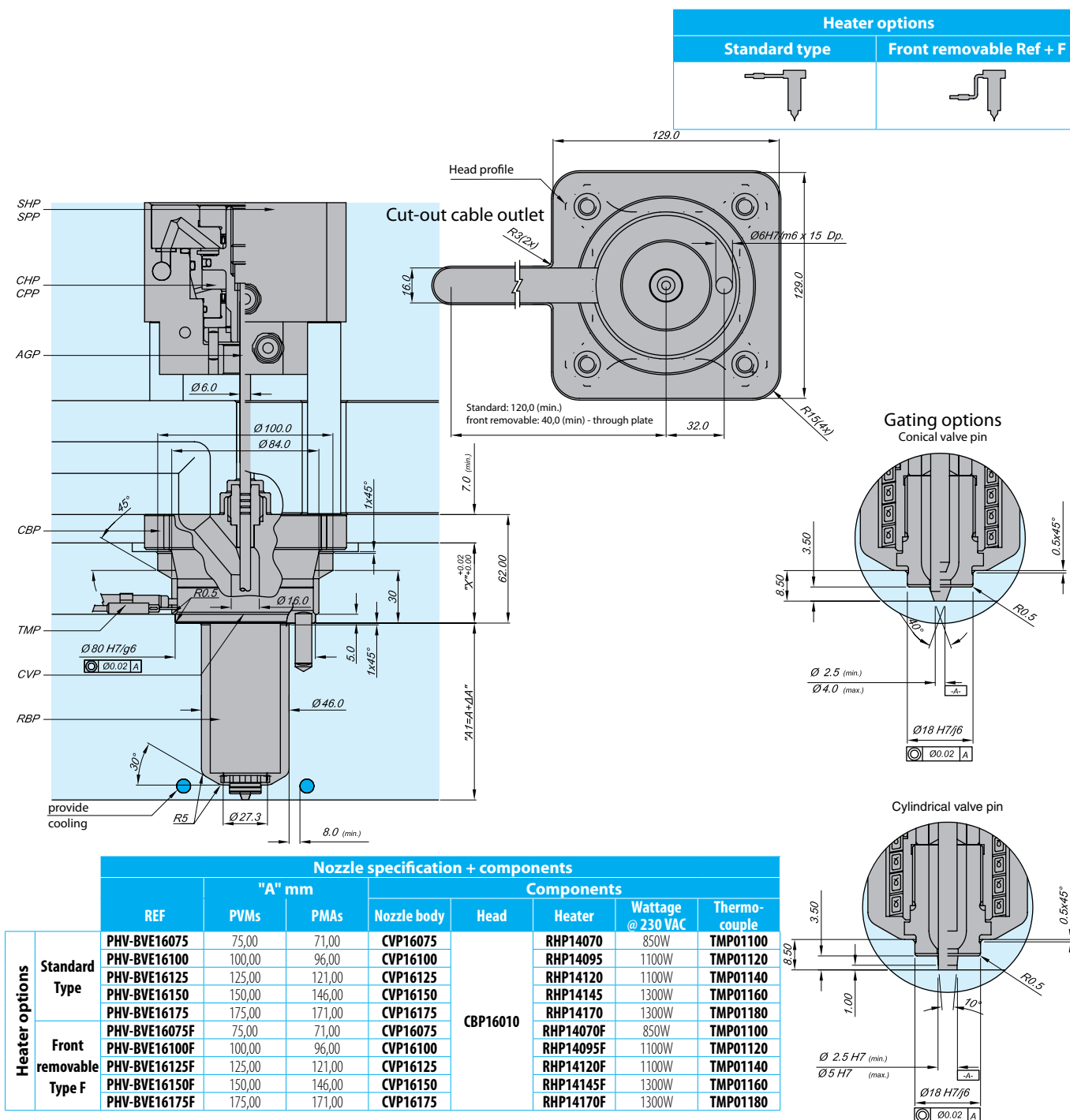
Nozzle specification + components

		Nozzle specification + components																
		REF	"A" mm		Components													
			PVMs	PMA's	Nozzle body	Head	Heater	Protection tube	Wattage @ 230 VAC	Thermo-couple	Heater	Wattage @ 230 VAC	Distance ring	Thermo-couple				
Heater options	Standard Type	PHV-HVE16325	325	321	CVP16325	CBP16001	RHP14220	TUB14220	900W	TMP01300	RTP14045	610W	AEP14603	TMP01080				
		PHV-HVE16375	375	371	CVP16375		RHP14270	TUB14270	1100W	TMP01340								
		PHV-HVE16425	425	421	CVP16425		RHP14320	TUB14320	1100W	TMP01380								
		PHV-HVE16475	475	471	CVP16475		RHP14370	TUB14370	1100W	TMP01420								
	Front removable Type F	PHV-HVE16325F	325	321	CVP16325		RHP14220F	TUB14220	900W	TMP01300								
		PHV-HVE16375F	375	371	CVP16375		RHP14270F	TUB14270	1100W	TMP01340								
		PHV-HVE16425F	425	421	CVP16425		RHP14320F	TUB14320	1100W	TMP01380								
		PHV-HVE16475F	475	471	CVP16475		RHP14370F	TUB14370	1100W	TMP01420								

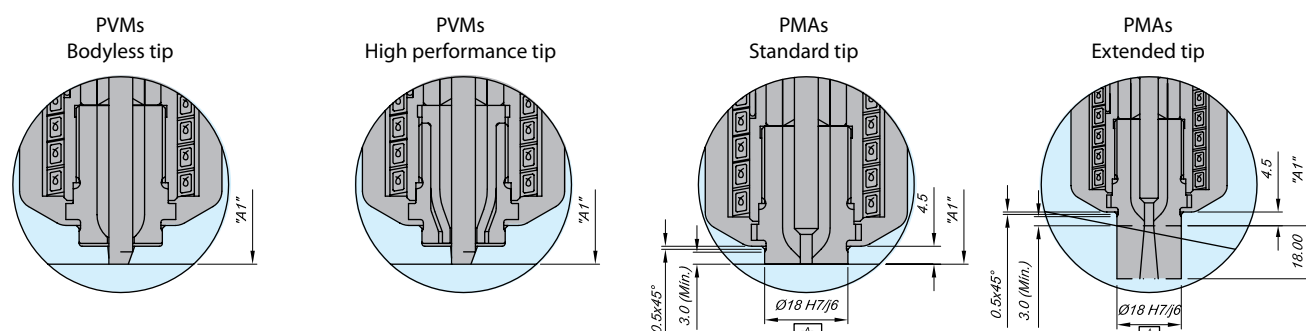
Tip options

Facility system

PHV-BVE



Tip options





PHV-HVP

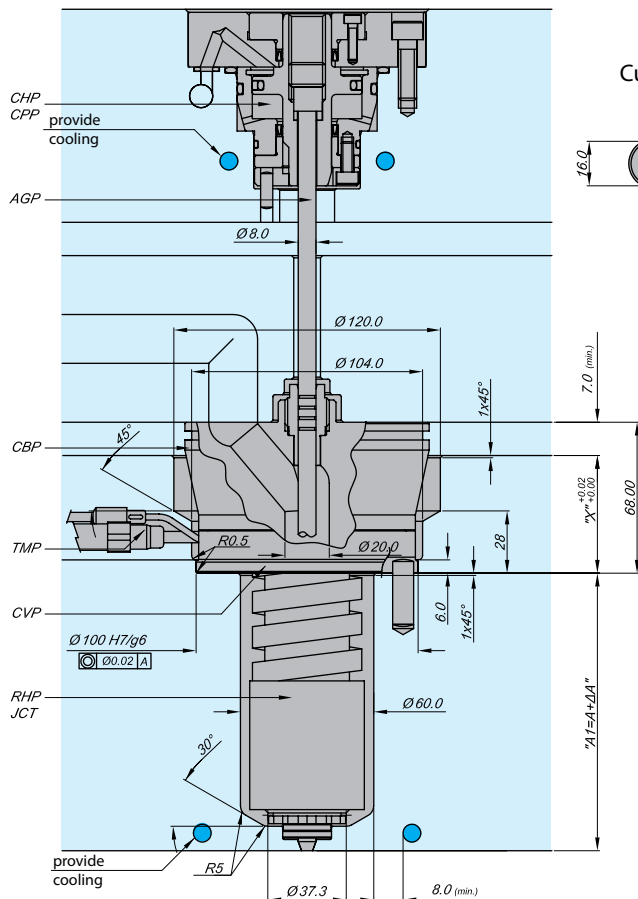
Standard system

Heater options

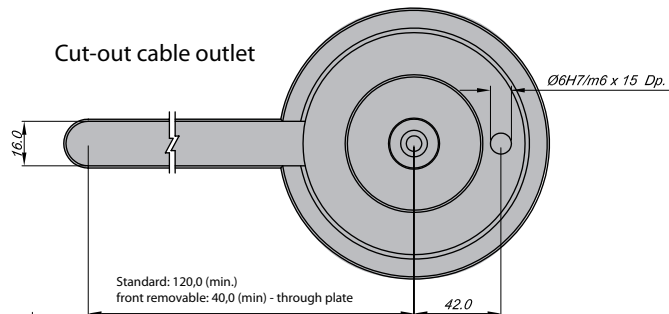
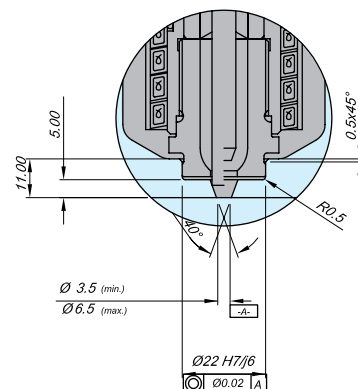
Standard type



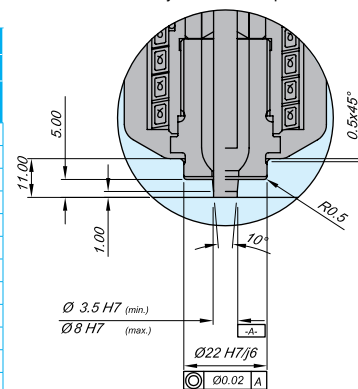
Front removable Ref + F



Cut-out cable outlet

Gating options
Conical valve pin

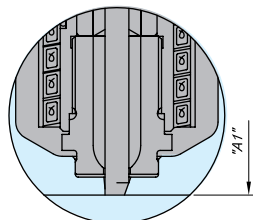
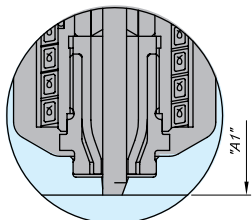
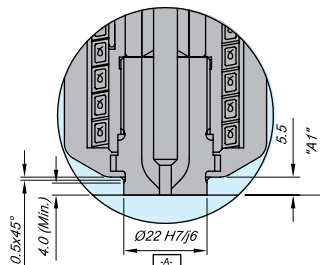
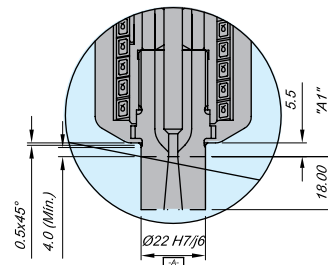
Cylindrical valve pin



Nozzle specification + components

	REF	"A" mm		Components						
		PVMs	PMA	Nozzle body	Head	Heater	Sleeve	Protection tube	Distance ring	Wattage @ 230 VAC
Heater options	Standard Type	PHV-HVP20112	112,50	107,00	CVP20112	RHP18102	JCT18100	-	-	760W
		PHV-HVP20137	137,50	132,00	CVP20137	RHP18127	JCT18100	-	-	1100W
		PHV-HVP20162	162,50	157,00	CVP20162	RHP18153	JCT18100	-	-	1100W
		PHV-HVP20187	187,50	182,00	CVP20187	RHP18178	JCT18100	-	-	1100W
		PHV-HVP20212	212,50	207,00	CVP20212	RHP18203	JCT18051	TUB18153	AEP20604	1100W
		PHV-HVP20237	237,50	232,00	CVP20237	RHP18229	JCT18051	TUB18179	AEP20604	1100W
		PHV-HVP20262	262,50	257,00	CVP20262	RHP18254	JCT18051	TUB18204	AEP20604	1100W
		PHV-HVP20300	300,00	294,50	CVP20300	RHP18293	JCT18051	TUB18243	AEP20604	1100W
	Front removable Type F	PHV-HVP20112F	112,50	107,00	CVP20112	RHP18102F	JCT18100	-	-	760W
		PHV-HVP20137F	137,50	132,00	CVP20137	RHP18127F	JCT18100	-	-	1100W
		PHV-HVP20162F	162,50	157,00	CVP20162	RHP18153F	JCT18100	-	-	1100W
		PHV-HVP20187F	187,50	182,00	CVP20187	RHP18178F	JCT18100	-	-	1100W
		PHV-HVP20212F	212,50	207,00	CVP20212	RHP18203F	JCT18051	TUB18153	AEP20604	1100W
		PHV-HVP20237F	237,50	232,00	CVP20237	RHP18229F	JCT18051	TUB18179	AEP20604	1100W
		PHV-HVP20262F	262,50	257,00	CVP20262	RHP18254F	JCT18051	TUB18204	AEP20604	1100W
		PHV-HVP20300F	300,00	294,50	CVP20300	RHP18293F	JCT18051	TUB18243	AEP20604	1100W

Tip options

PVMs
Bodyless tipPVMs
High performance tipPMA
Standard tipPMA
Extended tip

- PHV-HVP

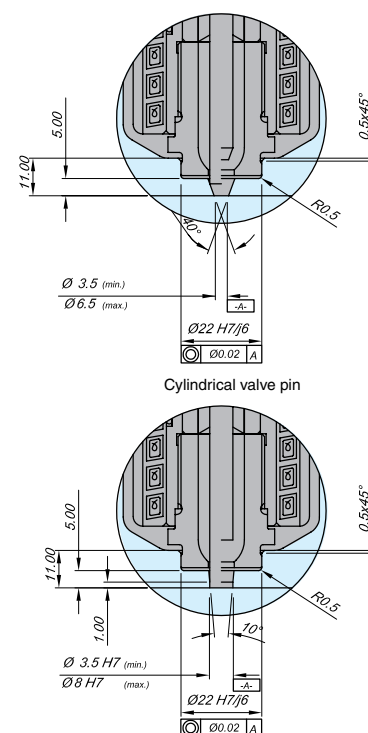


Figure 1 illustrates the four different tip geometries used in the study:

- PVMs Bodyless tip:** Shows a cross-section with a central bodyless tip and side pockets. Dimensions include a top angle of 11° and a side angle of 45° .
- PVMs High performance tip:** Similar to the bodyless tip but with a different internal profile. Dimensions include a top angle of 11° and a side angle of 45° .
- PMAs Standard tip:** Features a standard tip geometry. Dimensions include a top angle of 11° , a side angle of 45° , a diameter of $\varnothing 22$ mm, and a width of 76 mm. It also specifies a thickness of 4.0 mm and a length of 18.00 mm.
- PMAs Extended tip:** Features an extended tip geometry. Dimensions include a top angle of 11° , a side angle of 45° , a diameter of $\varnothing 22$ mm, and a width of 76 mm. It also specifies a thickness of 4.0 mm and a length of 18.00 mm.



PHV-BVP

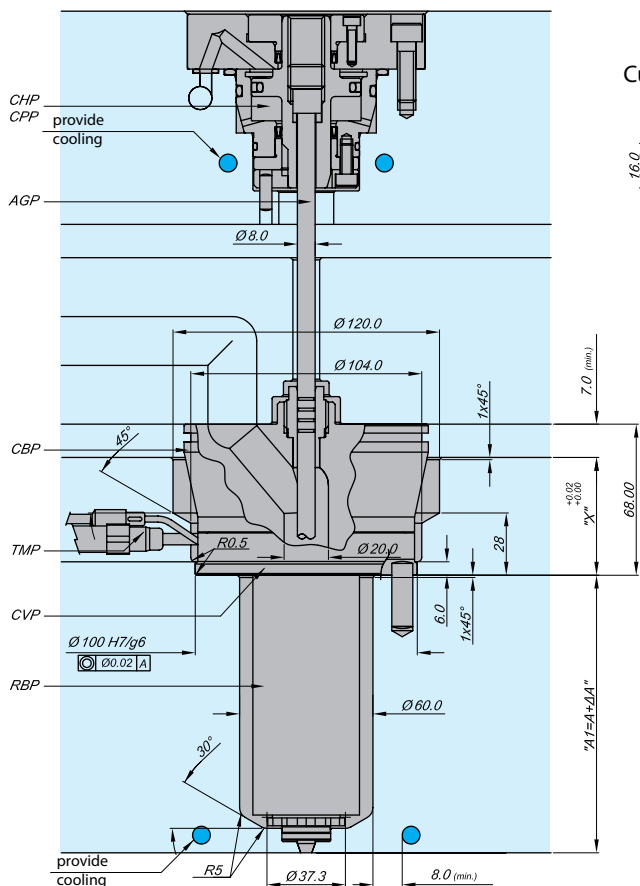
Standard system

Heater options

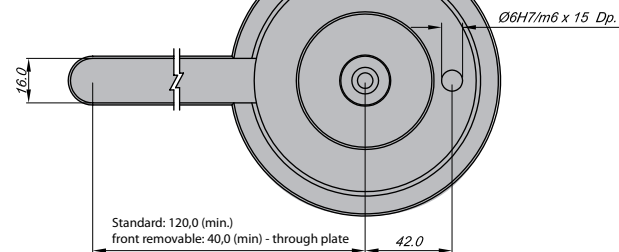
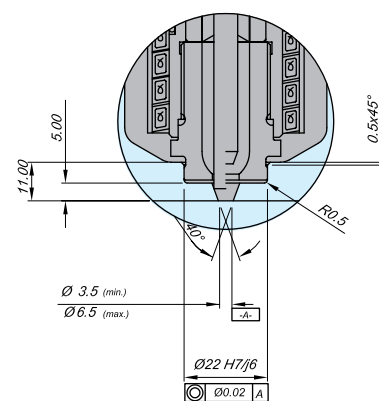
Standard type



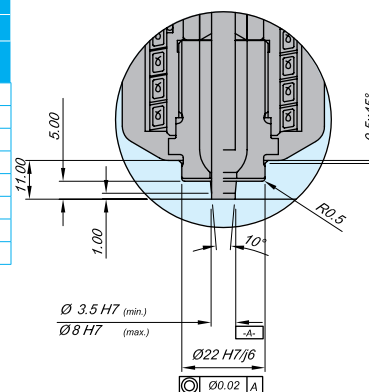
Front removable Ref + F



Cut-out cable outlet

Gating options
Conical valve pin

Cylindrical valve pin



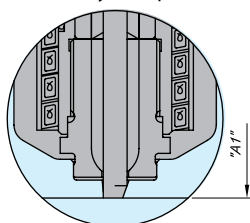
Nozzle specification + components

		REF	"A" mm		Components				
			PVMs	PMAs	Nozzle body	Head	Heater	Wattage @ 230 VAC	Thermo-couple
Heater options	Standard Type	PHV-BVP20112	112,50	107,00	CVP20112	CBP20001	RBP18102	1100W	TMP01140
		PHV-BVP20137	137,50	132,00	CVP20137		RBP18127	1100W	TMP01160
		PHV-BVP20162	162,50	157,00	CVP20162		RBP18153	1300W	TMP01180
		PHV-BVP20187	187,50	182,00	CVP20187		RBP18178	1300W	TMP01200
	Front removable Type F	PHV-BVP20112F	112,50	107,00	CVP20112		RBP18102F	1100W	TMP01140
		PHV-BVP20137F	137,50	132,00	CVP20137		RBP18127F	1100W	TMP01160
		PHV-BVP20162F	162,50	157,00	CVP20162		RBP18153F	1300W	TMP01180
		PHV-BVP20187F	187,50	182,00	CVP20187		RBP18178F	1300W	TMP01200

Tip options

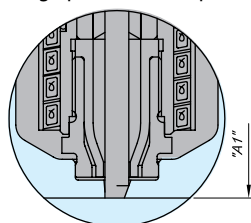
PVMs

Bodyless tip



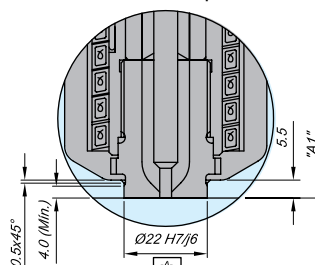
PVMs

High performance tip



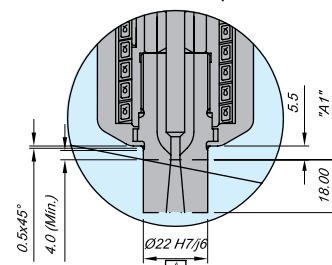
PMAs

Standard tip



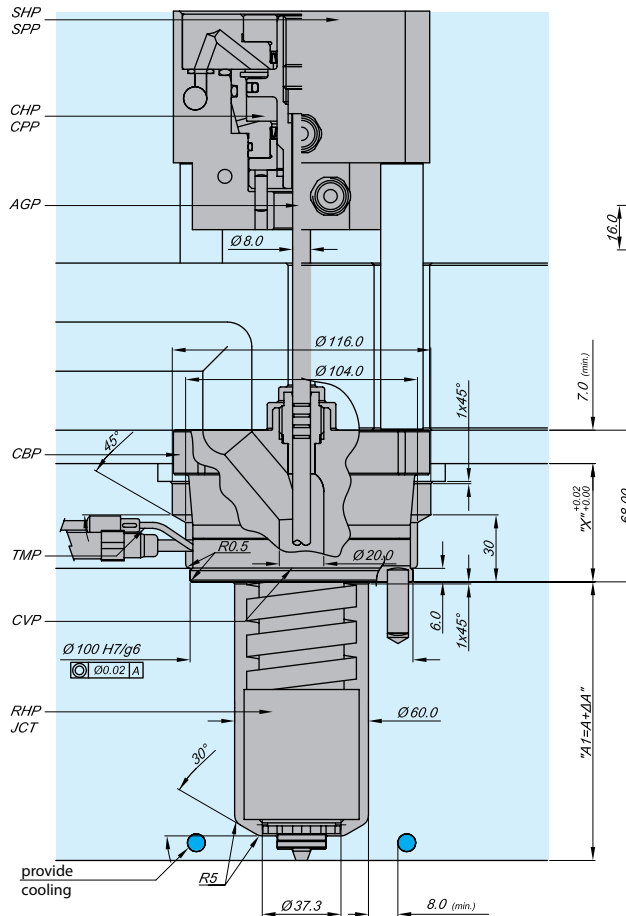
PMAs

Extended tip

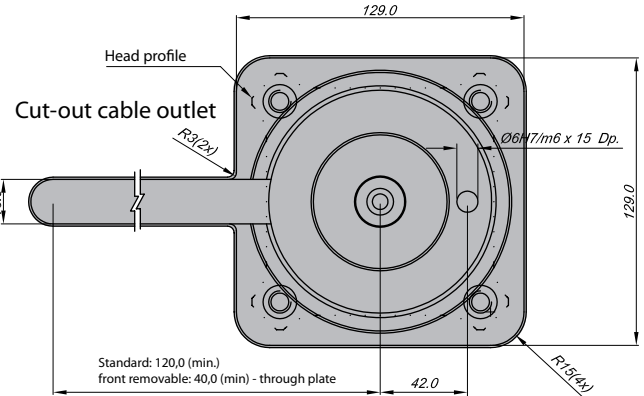


Facility system

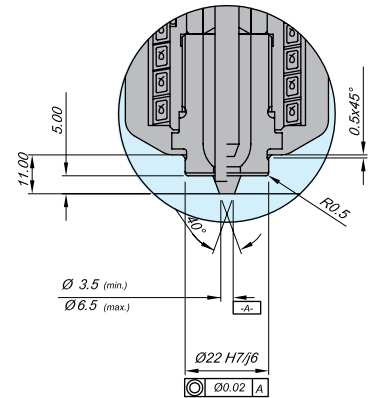
PHV-HVE



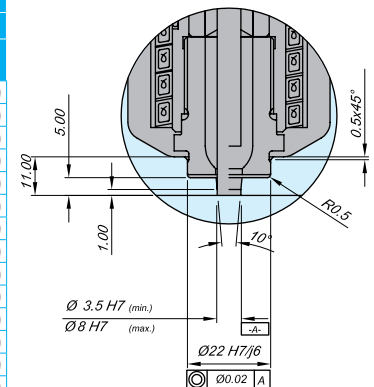
Heater options	
Standard type	Front removable Ref + F



Gating options
Conical valve pin



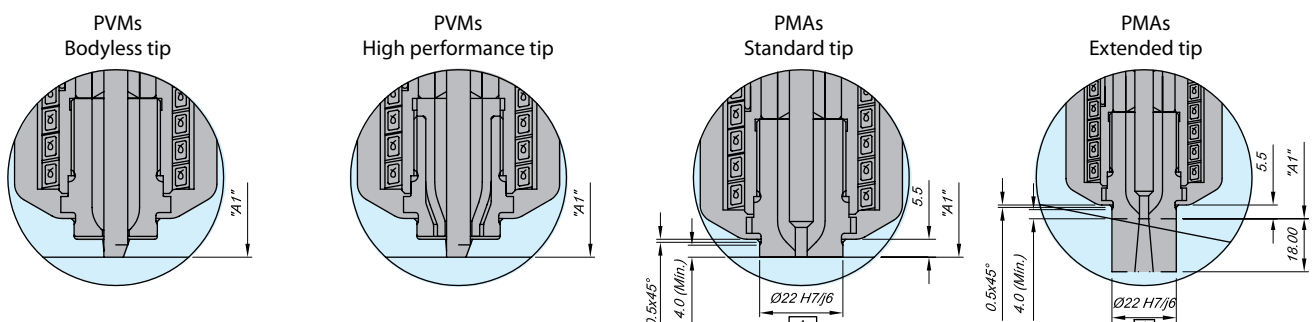
Cylindrical valve pin



Nozzle specification + components

Heater options	REF	"A" mm		Components							Thermo-couple
		PVMs	PMA	Nozzle body	Head	Heater	Sleeve	Protection tube	Distance ring	Wattage @ 230 VAC	
Standard Type	PHV-HVE20112	112,50	107	CVP20112		RHP18102	JCT18100	-	-	760W	TMP01140
	PHV-HVE20137	137,50	132	CVP20137		RHP18127	JCT18100	-	-	1100W	TMP01160
	PHV-HVE20162	162,50	157	CVP20162		RHP18153	JCT18100	-	-	1100W	TMP01180
	PHV-HVE20187	187,50	182	CVP20187		RHP18178	JCT18100	-	-	1100W	TMP01200
	PHV-HVE20212	212,50	207	CVP20212		RHP18203	JCT18051	TUB18153	AEP20604	1100W	TMP01220
	PHV-HVE20237	237,50	232	CVP20237		RHP18229	JCT18051	TUB18179	AEP20604	1100W	TMP01260
	PHV-HVE20262	262,50	257	CVP20262		RHP18254	JCT18051	TUB18204	AEP20604	1100W	TMP01280
	PHV-HVE20300	300,00	294	CVP20300		RHP18293	JCT18051	TUB18243	AEP20604	1100W	TMP01320
	PHV-HVE20112F	112,50	107	CVP20112		RHP18102F	JCT18100	-	-	760W	TMP01140
	PHV-HVE20137F	137,50	132	CVP20137		RHP18127F	JCT18100	-	-	1100W	TMP01160
	PHV-HVE20162F	162,50	157	CVP20162		RHP18153F	JCT18100	-	-	1100W	TMP01180
	PHV-HVE20187F	187,50	182	CVP20187		RHP18178F	JCT18100	-	-	1100W	TMP01200
	PHV-HVE20212F	212,50	207	CVP20212		RHP18203F	JCT18051	TUB18153	AEP20604	1100W	TMP01220
	PHV-HVE20237F	237,50	232	CVP20237		RHP18229F	JCT18051	TUB18179	AEP20604	1100W	TMP01260
	PHV-HVE20262F	262,50	257	CVP20262		RHP18254F	JCT18051	TUB18204	AEP20604	1100W	TMP01280
	PHV-HVE20300F	300,00	294	CVP20300		RHP18293F	JCT18051	TUB18243	AEP20604	1100W	TMP01320

Tip options





PHV-HVE

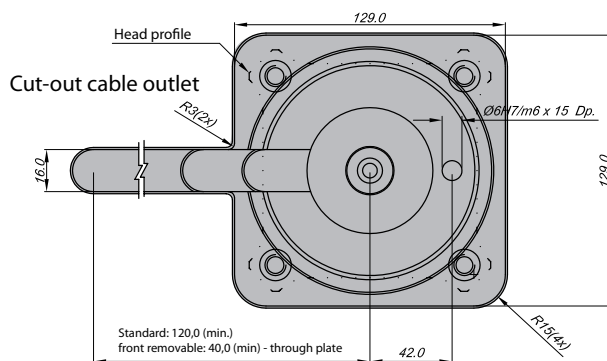
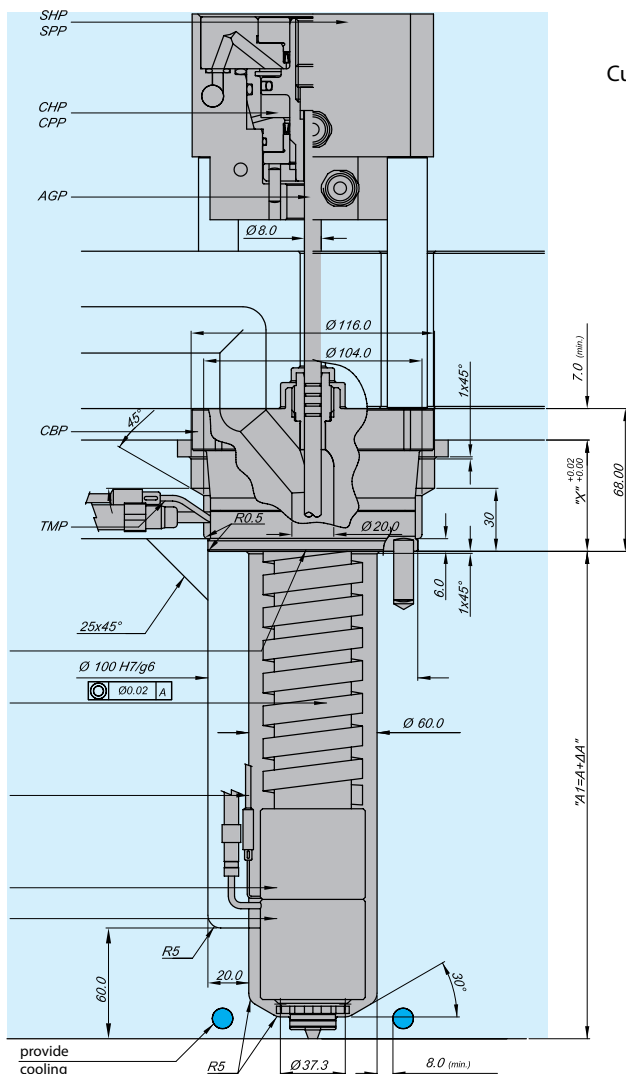
Facility system

Heater options

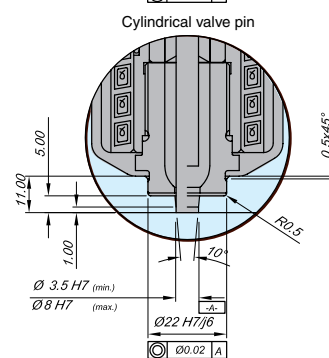
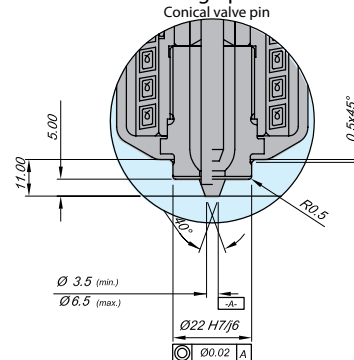
Standard type



Front removable Ref + F



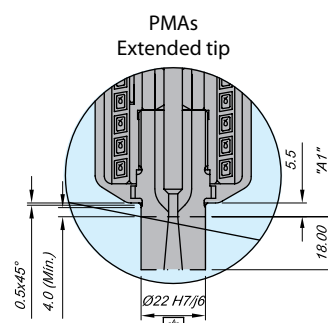
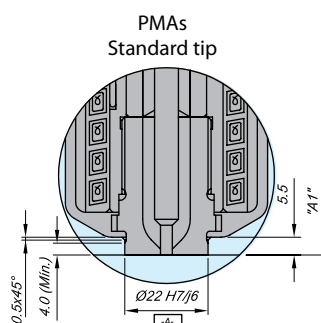
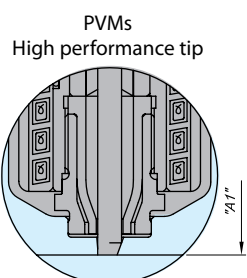
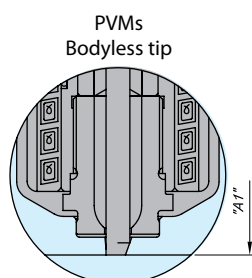
Gating options



Nozzle specification + components

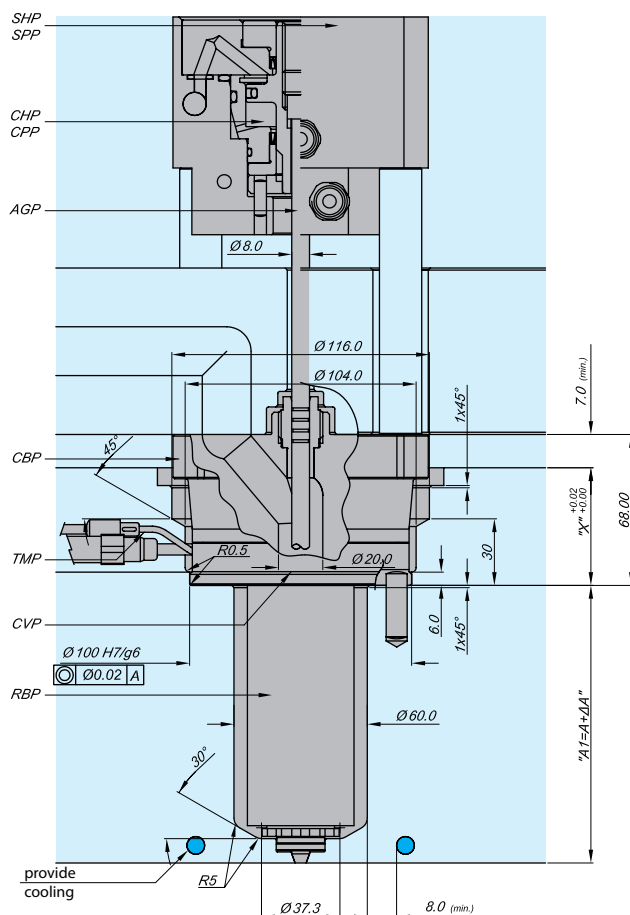
		Components												
		REF	PVMs	PMAs	Nozzle body	Head	Heater	Protection tube	Wattage @ 230 VAC	Thermo-couple	Heater	Wattage @ 230 VAC	Distance ring	Thermo-couple
Heater options	Standard Type	PHV-HVE20350	350	344,50	CVP20350	CBP20001	RHP18243	TUB18243	1100W	TMP01320	RTP18045	630W	AEP20603	TMP01080
		PHV-HVE20400	400	394,50	CVP20400		RHP18293	TUB18293	1100W	TMP01340				
		PHV-HVE20450	450	444,50	CVP20450		RHP18343	TUB18343	1100W	TMP01420				
		PHV-HVE20500	500	494,50	CVP20500		RHP18393	TUB18393	1100W	TMP01480				
	Front removable Type F	PHV-HVE20350F	350	344,50	CVP20350		RHP18243F	TUB18243	1100W	TMP01320				
		PHV-HVE20400F	400	394,50	CVP20400		RHP18293F	TUB18293	1100W	TMP01340				
		PHV-HVE20450F	450	444,50	CVP20450		RHP18343F	TUB18343	1100W	TMP01420				
		PHV-HVE20500F	500	494,50	CVP20500		RHP18393F	TUB18393	1100W	TMP01480				

Tip options

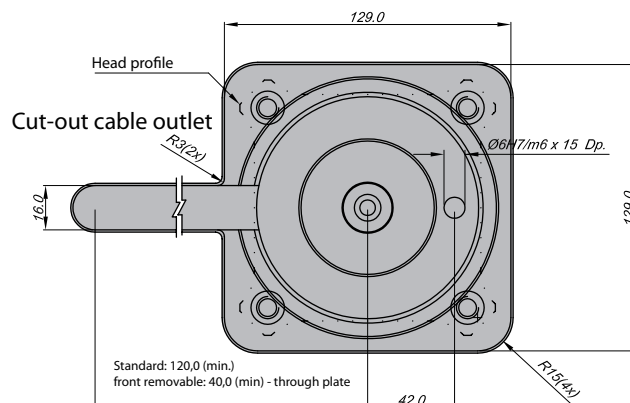


Facility system

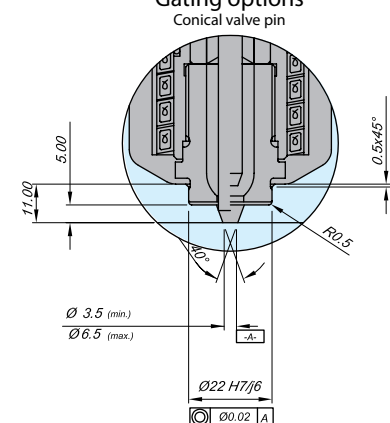
PHV-BVE



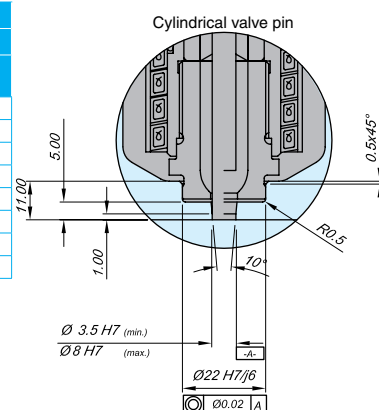
Heater options	
Standard type	Front removable Ref + F



Gating options

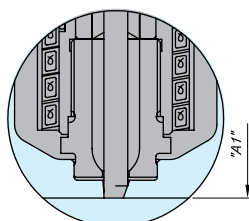


		Nozzle specification + components						
		REF	"A" mm	Components				
Heater options	Standard Type	PHV-BVE20112	112,50	107,00	CVP20112	CBP20001	RBP18102	TMP01140
		PHV-BVE20137	137,50	132,00	CVP20137		RBP18127	TMP01160
		PHV-BVE20162	162,50	157,00	CVP20162		RBP18153	TMP01180
		PHV-BVE20187	187,50	182,00	CVP20187		RBP18178	TMP01200
	Front removable Type F	PHV-BVE20112F	112,50	107,00	CVP20112		RBP18102F	TMP01140
		PHV-BVE20137F	137,50	132,00	CVP20137		RBP18127F	TMP01160
		PHV-BVE20162F	162,50	157,00	CVP20162		RBP18153F	TMP01180
		PHV-BVE20187F	187,50	182,00	CVP20187		RBP18178F	TMP01200

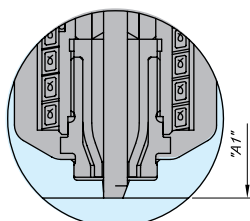


Tip options

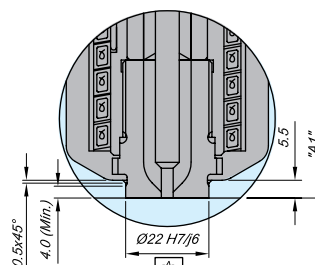
PVMs
Bodyless tip



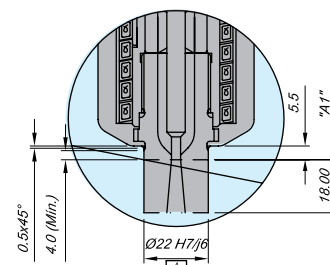
PVMs
High performance tip



PMA
Standard tip

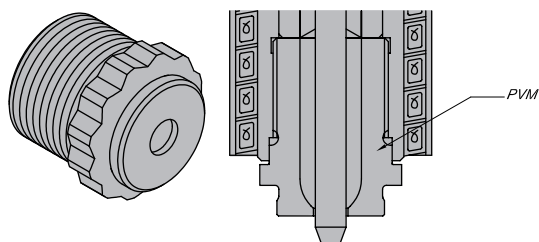


PMA
Extended tip





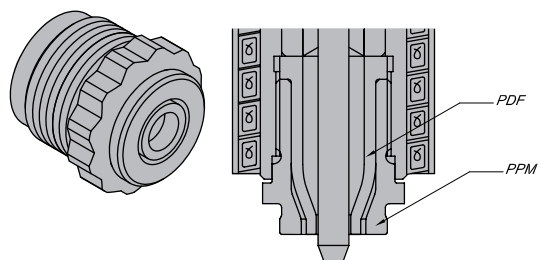
PVMs



Bodyless tip

Series	REF
50	PVM06020
200	PVM10020
500	PVM12020
800	PVM16020
1000	PVM20020

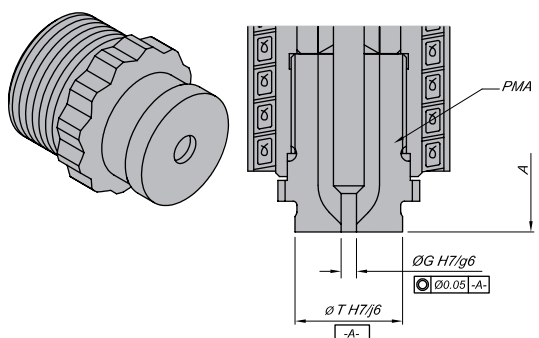
PVMs



High performance tip

Series	REF	Tip components		
		Insert	Nozzle body	Material
200	PVM10021	PDF10820	PPM10620	Standard (coated in Cr)
500	PVM12021	PDF12820	PPM12620	
800	PVM16021	PDF16820	PPM16620	
1000	PVM20021	PDF20820	PPM20620	
200	PVM10022	PDF10520	PPM10620	Abrasion resistant
500	PVM12022	PDF12520	PPM12620	
800	PVM16022	PDF16520	PPM16620	
1000	PVM20022	PDF20520	PPM20620	
200	PVM10023	PDF10720	PPM10620	Standard DME (coated in Ni)
500	PVM12023	PDF12720	PPM12620	
800	PVM16023	PDF16720	PPM16620	
1000	PVM20023	PDF20720	PPM20620	

PMAs



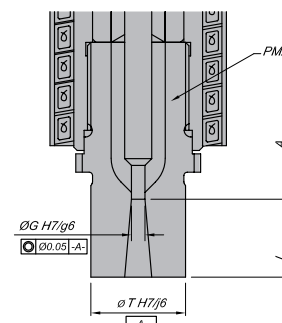
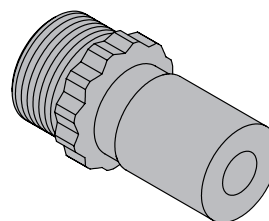
Standard tip, conical valve pin

Series	REF	T (mm)	G (mm)
50	PMA06020	10	1,5
	PMA06030		2,0
	PMA06040		2,5
200	PMA10020	14	2,0
	PMA10030		2,5
	PMA10040		3,0
	PMA10050		3,5
500	PMA10060	16	4,0
	PMA12020		2,5
	PMA12030		3,0
	PMA12040		3,5
	PMA12050		4,0
	PMA12060		4,5
800	PMA12070	18	5,0
	PMA16020		3,0
	PMA16030		4,0
	PMA16040		5,0
1000	PMA16050	22	6,0
	PMA20020		3,0
	PMA20030		4,0
	PMA20040		5,0
	PMA20050		6,0

Extended tip

PMA's

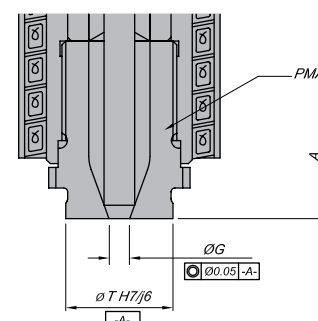
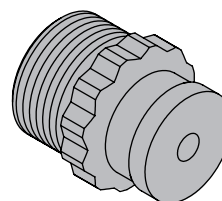
Series	REF	T (mm)		G (mm)
50	PMA06021	10	10	1,5
	PMA06031			2,0
	PMA06041			2,5
200	PMA10021	14	18	2,0
	PMA10031			2,5
	PMA10041			3,0
	PMA10051			3,5
	PMA10061			4,0
500	PMA12021	16	189	2,5
	PMA12031			3,0
	PMA12041			3,5
	PMA12051			4,0
	PMA12061			4,5
	PMA12071			5,0
800	PMA16021	18	18	3,0
	PMA16031			4,0
	PMA16041			5,0
	PMA16051			6,0
1000	PMA20021	22	18	3,0
	PMA20031			4,0
	PMA20041			5,0
	PMA20051			6,0



Extended tip

PMA's

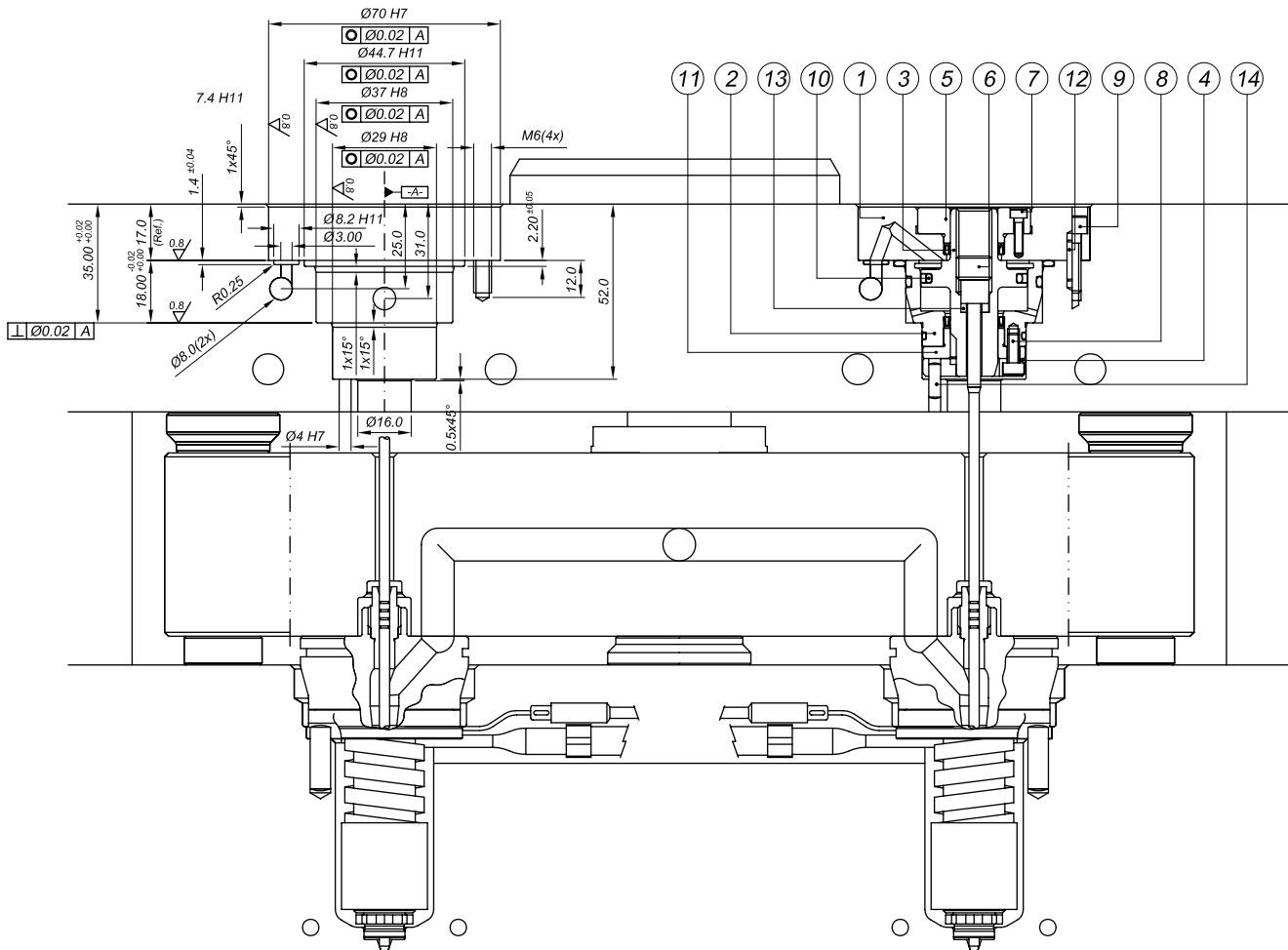
Series	REF	T (mm)	G (mm)
50	PMA06022	10	1,5
	PMA06032		2,0
	PMA06042		2,5
200	PMA10022	14	2,0
	PMA10032		2,5
	PMA10042		3,0
	PMA10052		3,5
	PMA10062		4,0
500	PMA12022	16	2,5
	PMA12032		3,0
	PMA12042		3,5
	PMA12052		4,0
	PMA12062		4,5
	PMA12072		5,0
800	PMA16022	18	3,0
	PMA16032		4,0
	PMA16042		5,0
	PMA16052		6,0
1000	PMA20022	22	3,0
	PMA20032		4,0
	PMA20042		5,0
	PMA20052		6,0





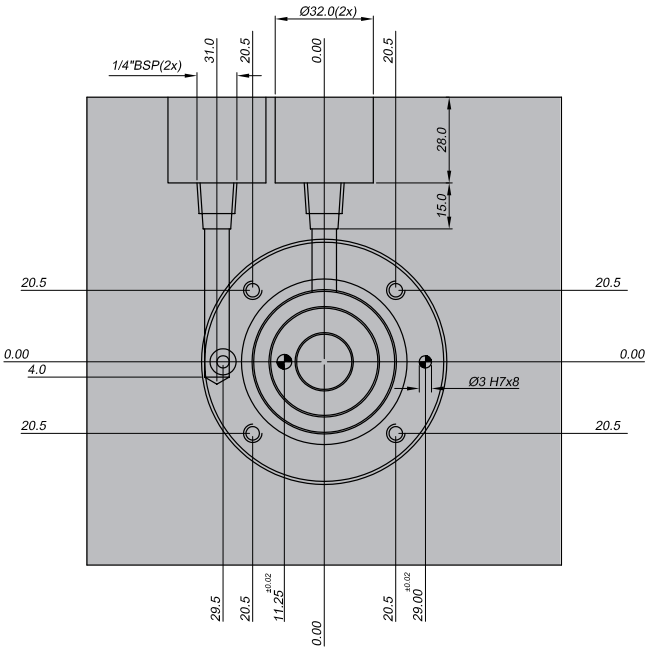
CHP06050

Hydraulic cylinder, Series 50



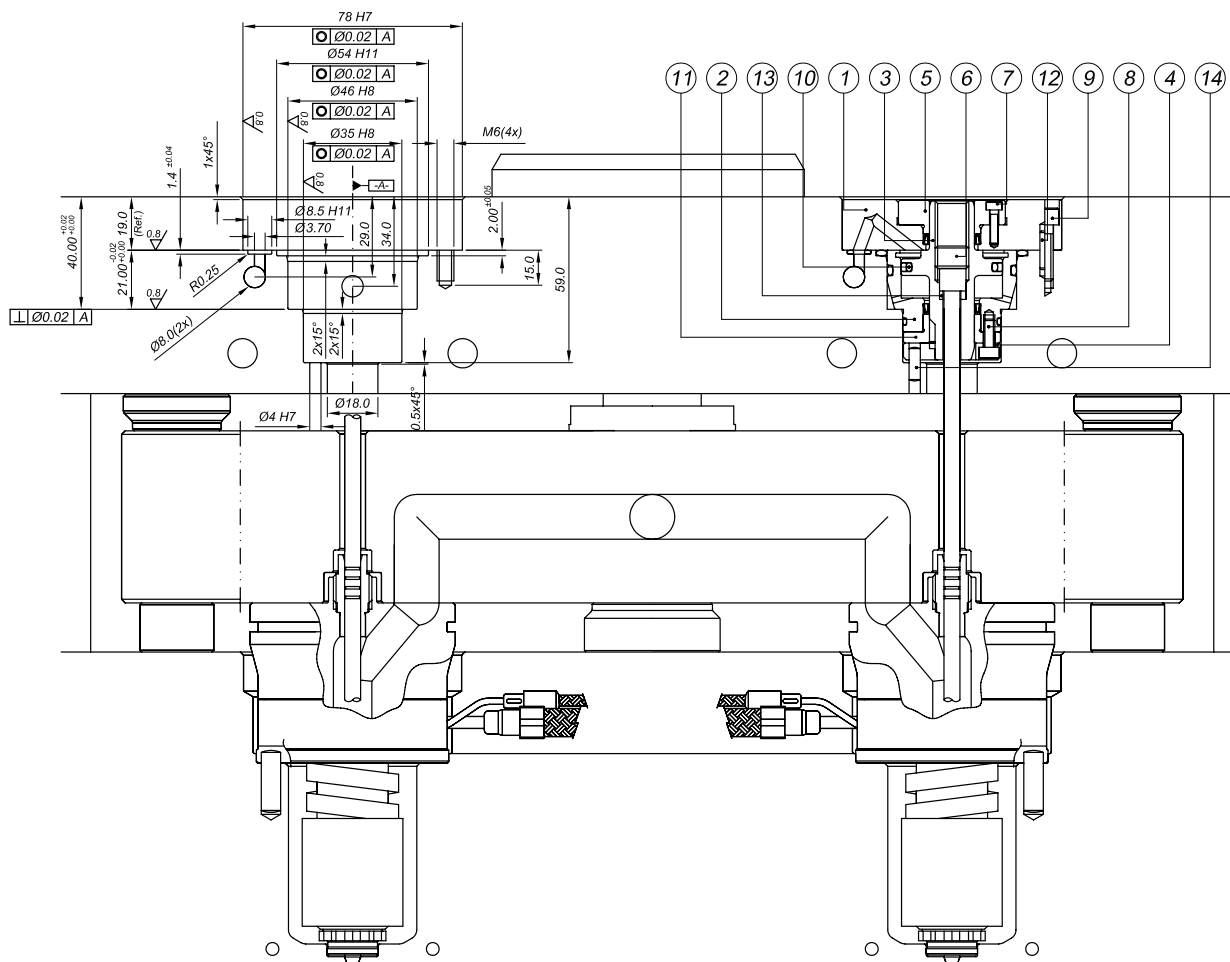
Components specs.			
	Description	Quantity	REF
①	top cover	1	TSP06210
②	cylinder body	1	CCP06220
③	piston	1	EMP06230
④	position ring	1	PDP06240
⑤	sealing cover	1	TVP06260
⑥	locking nut	1	PP06270
⑦	cap screw	4	M3x8-DIN912

Components specs.			
	Description	Quantity	REF
⑧	cap screw	2	M3x8-DIN912
⑨	cap screw	4	M6x20-DIN912
⑩	sealing kit	1	KVP06400
⑪	guide bushing	1	BGP06280
⑫	dowel pin	1	Ø3X12-DIN6325
⑬	adjusting ring	1	BRP06250
⑭	dowel pin	1	Ø4X12-DIN6325



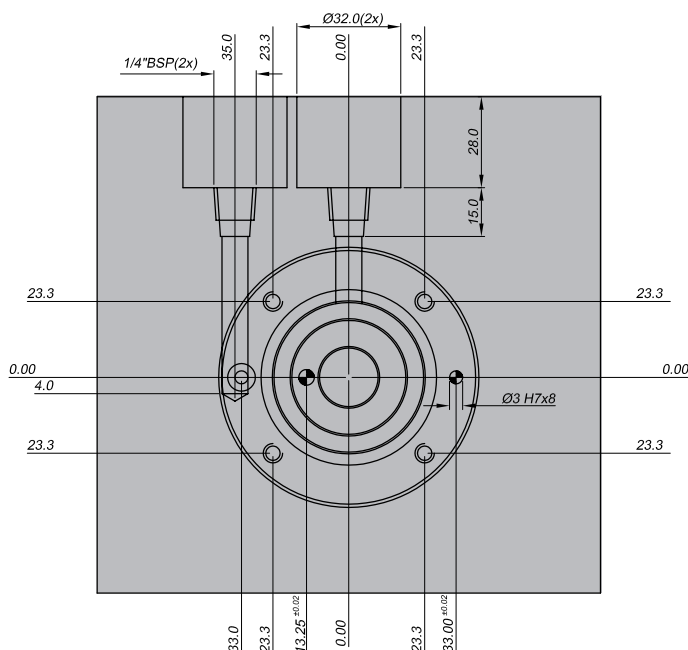
Hydraulic cylinder, Series 200/500

CHP10200



Components specs.			
	Description	Quantity	REF
①	top cover	1	TSP10210
②	cylinder body	1	CCP10220
③	piston	1	EMP10230
④	position ring	1	PDP10240
⑤	sealing cover	1	TVP10260
⑥	locking nut	1	PP10270
⑦	cap screw	4	M3x10-DIN912

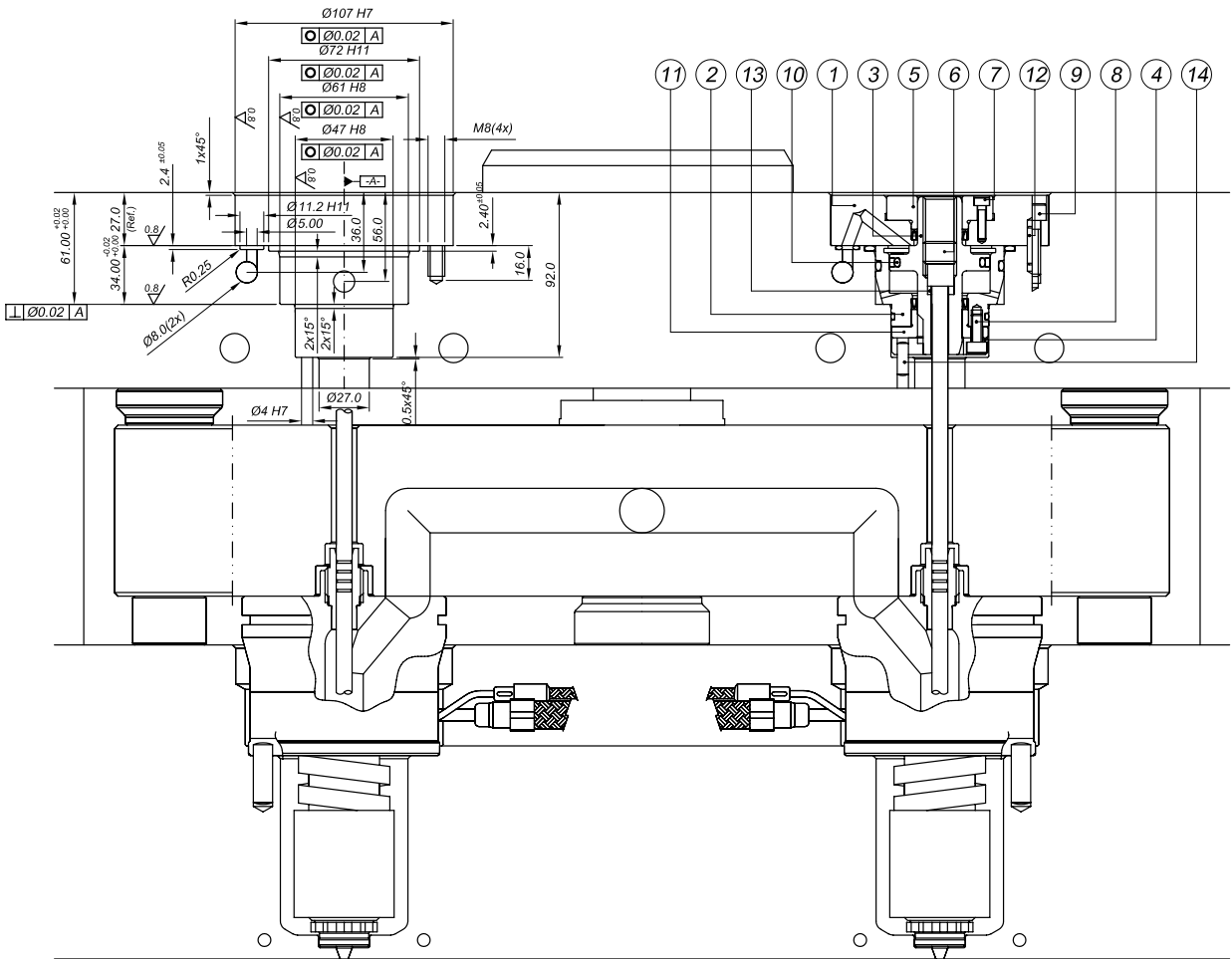
Components specs.			
	Description	Quantity	REF
⑧	cap screw	2	M4x10-DIN912
⑨	cap screw	4	M6x20-DIN912
⑩	sealing kit	1	KVP10400
⑪	guide bushing	1	BGP10280
⑫	dowel pin	1	Ø3X12-DIN6325
⑬	adjusting ring	1	BRP10250
⑭	dowel pin	1	Ø4X12-DIN6325





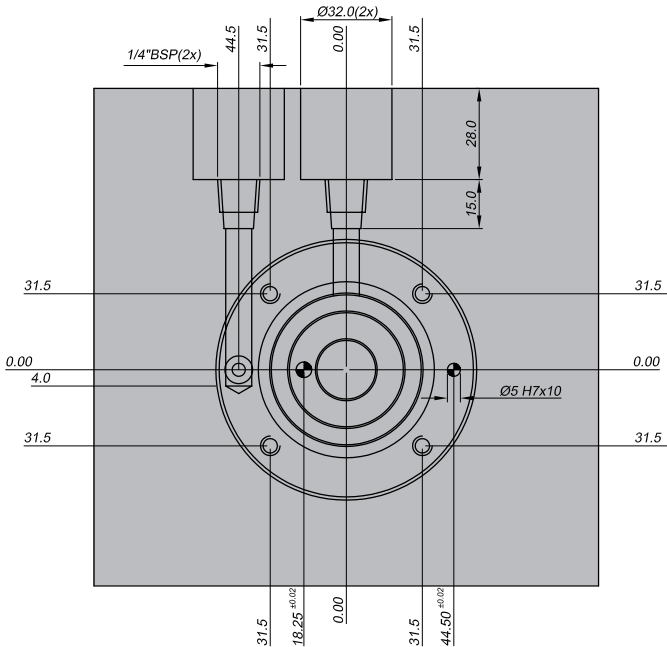
CHP20500

Hydraulic cylinder, Series 800/1000



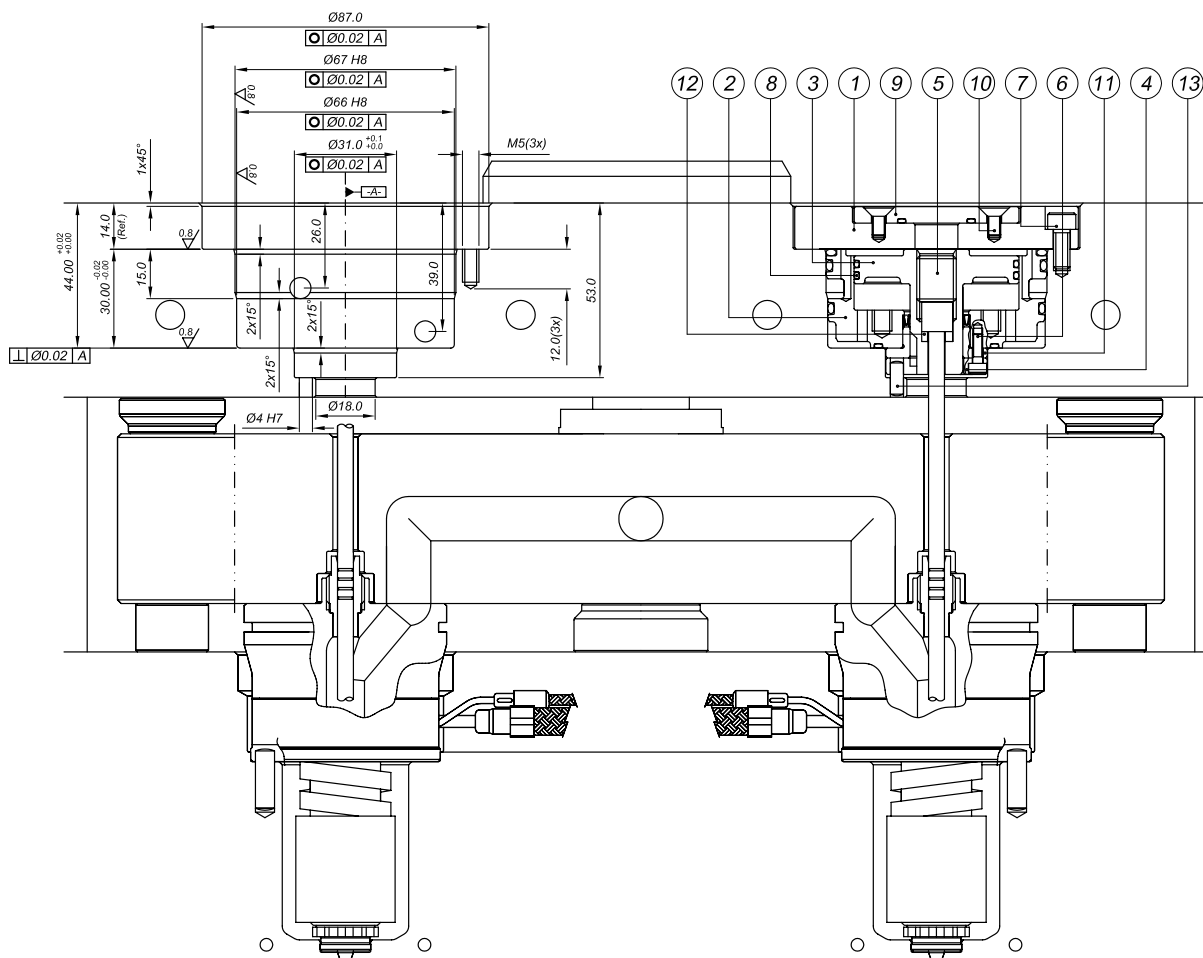
Components specs.			
	Description	Quantity	REF
①	top cover	1	TSP20210
②	cylinder body	1	CCP20220
③	piston	1	EMP20230
④	position ring	1	PDP20240
⑤	sealing cover	1	TVP20260
⑥	locking nut	1	PP20270
⑦	cap screw	4	M5x16-DIN912

Components specs.			
	Description	Quantity	REF
⑧	cap screw	2	M4x10-DIN912
⑨	cap screw	4	M8x30-DIN912
⑩	sealing kit	1	KVP20400
⑪	guide bushing	1	BGP20280
⑫	dowel pin	1	Ø5X16-DIN6325
⑬	adjusting ring	1	BRP20250
⑭	dowel pin	1	Ø4X12-DIN6325



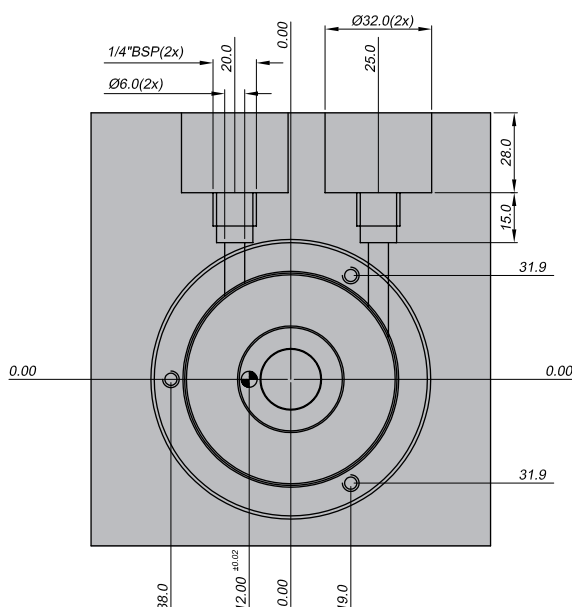
Pneumatic cylinder, Series 200/500

CPP10250



Components specs.			
	Description	Quantity	REF
①	top cover	1	TSP10215
②	cylinder body	1	CCP10225
③	piston	1	EMP10235
④	position ring	1	PSP10245
⑤	locking nut	1	PP10275
⑥	cap screw	2	M3x8-DIN912
⑦	cap screw	3	M5x12-DIN912

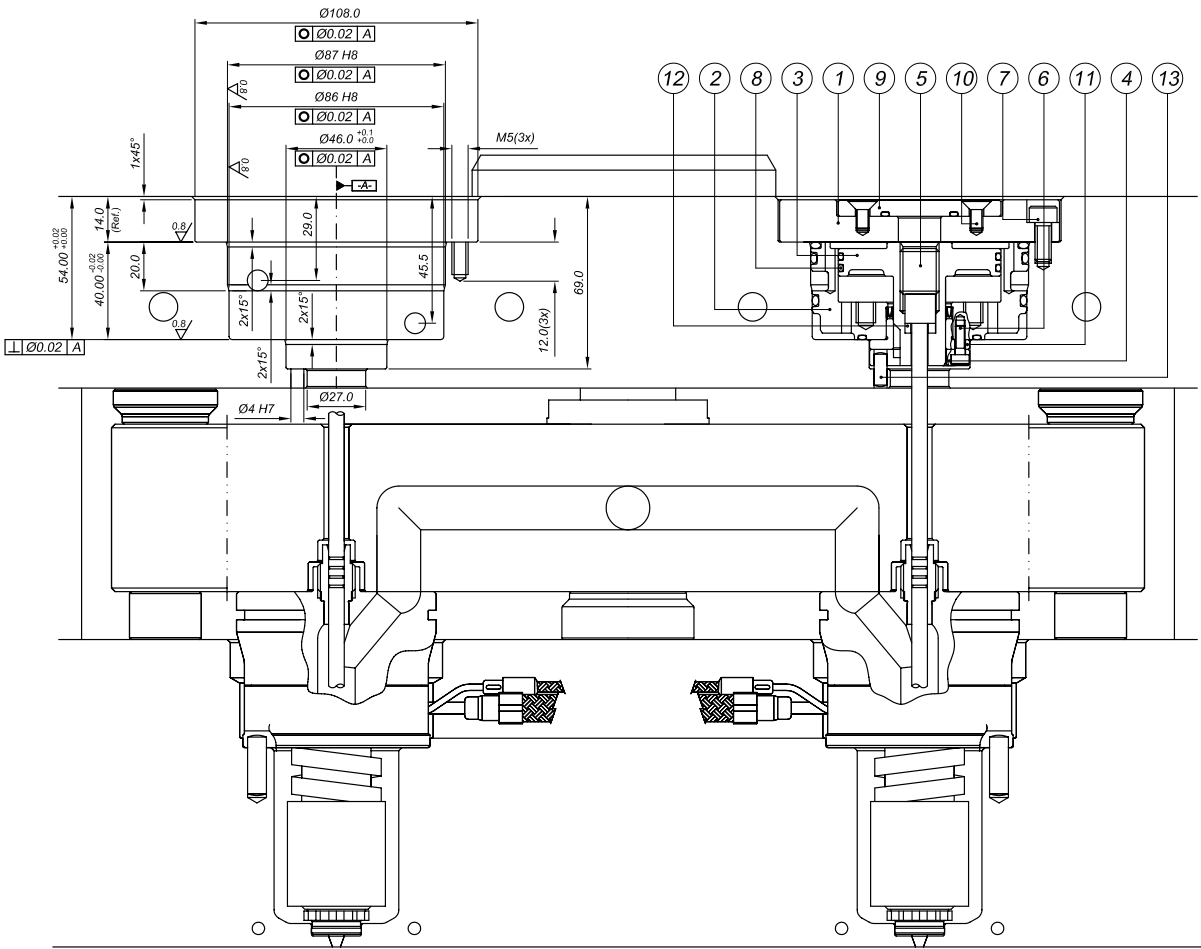
Components specs.			
	Description	Quantity	REF
⑧	sealing kit	1	KPP10450
⑨	sealing cover	1	STP10255
⑩	hex. socket count. head screw	2	M4x8-DIN7991
⑪	guide bushing	1	BGP10265
⑫	adjusting ring	1	BRP10250
⑬	dowel pin	1	Ø4X12-DIN6325





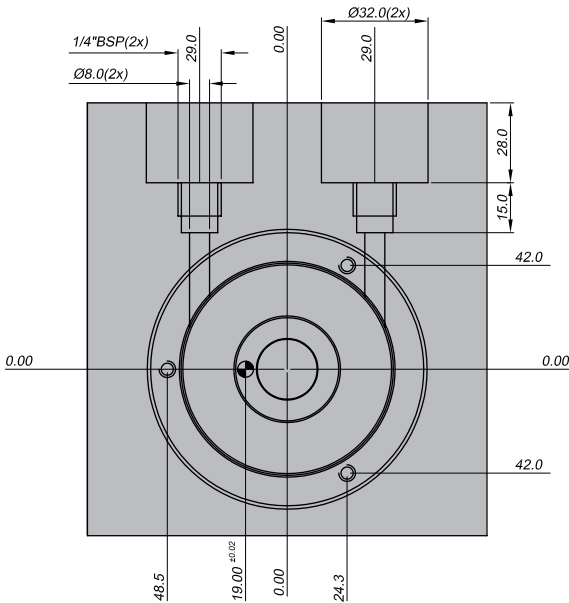
CHP20250

Pneumatic cylinder, Series 800/1000



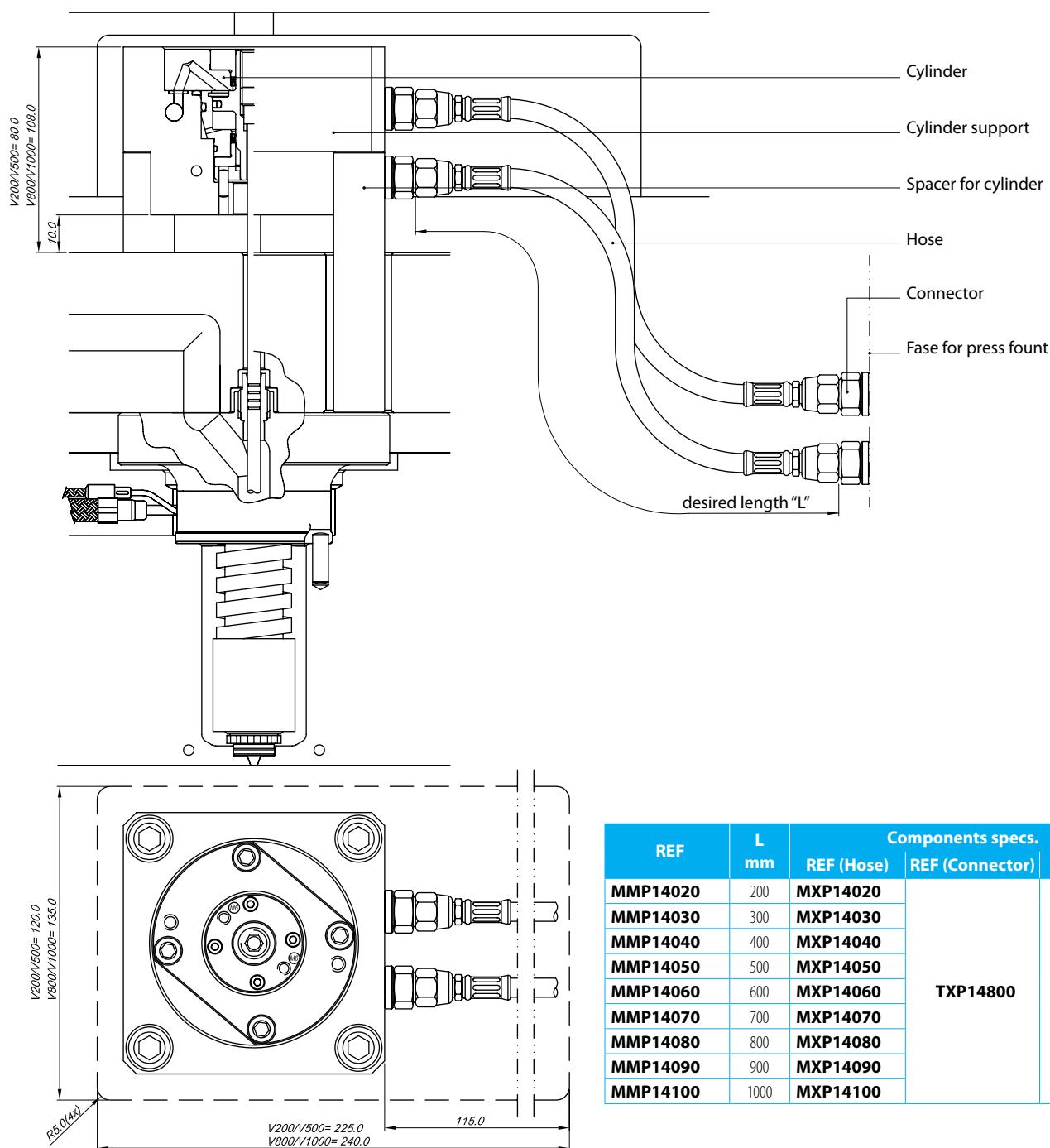
Components specs.			
	Description	Quantity	REF
①	top cover	1	TSP20215
②	cylinder body	1	CCP20225
③	piston	1	EMP20235
④	position ring	1	PSP20245
⑤	locking nut	1	PP20275
⑥	cap screw	2	M5x15-DIN912
⑦	cap screw	3	M5x12-DIN912

Components specs.			
	Description	Quantity	REF
⑧	sealing kit	1	KPP20450
⑨	sealing cover	1	STP20255
⑩	hex. socket count. head screw	2	M4x8-DIN7991
⑪	guide bushing	1	BGP20265
⑫	adjusting ring	1	BRP20250
⑬	dowel pin	1	Ø4X12-DIN6325



Hoses

MMP



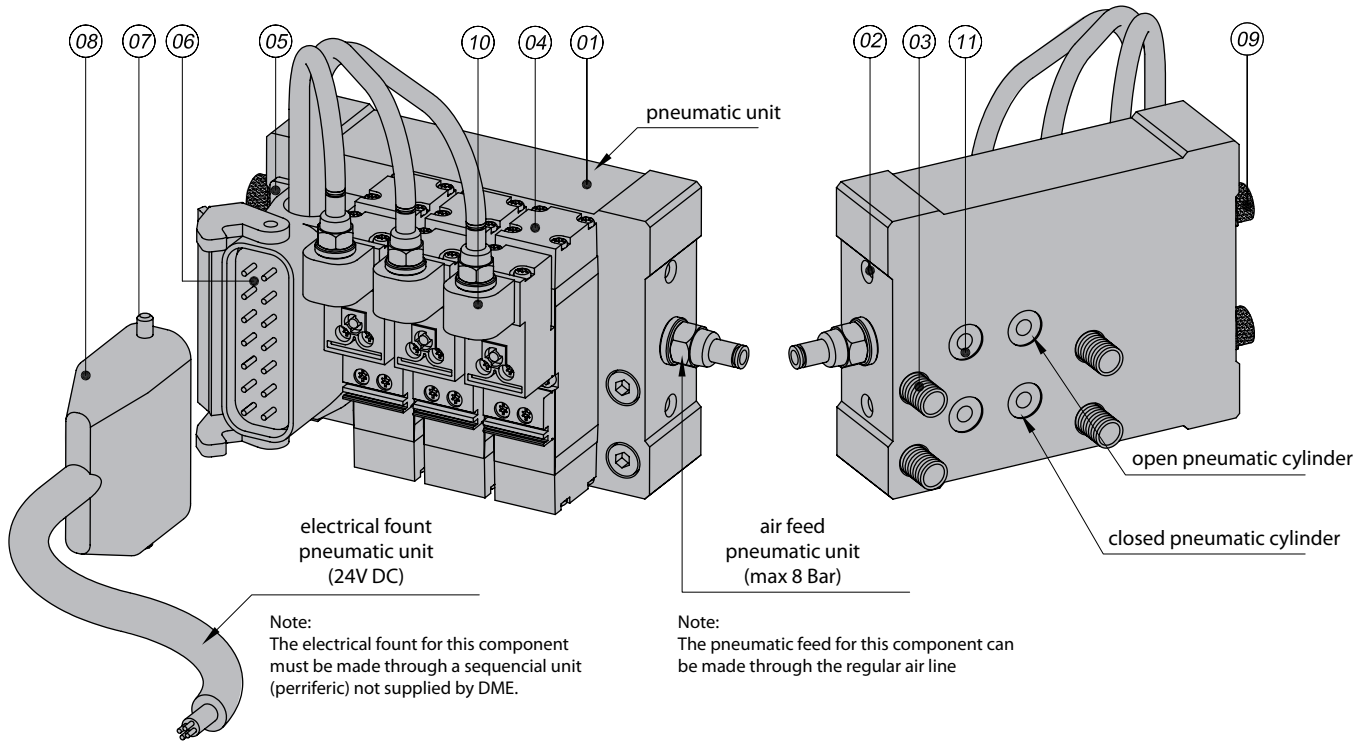
REF	L mm	Components specs.		
		REF (Hose)	REF (Connector)	Quantity
MMP14020	200	MXP14020	TXP14800	2
MMP14030	300	MXP14030		
MMP14040	400	MXP14040		
MMP14050	500	MXP14050		
MMP14060	600	MXP14060		
MMP14070	700	MXP14070		
MMP14080	800	MXP14080		
MMP14090	900	MXP14090		
MMP14100	1000	MXP14100		

Series	Actuator	Components specs.						
		REF (support)	REF (spacer)	Quantity	REF (screws)	Quantity	REF (connector)	Quantity
200/500	Hydraulic	SHP10800	EPP10200	4	M10x135	4	SXP14800	4
	Pneumatic	SPP10800	EPP10200	4	M10x135	4	SXP14800	4
800/1000	Hydraulic	SHP20800	EPP20200	4	M10x115	4	SXP14800	4
	Pneumatic	SPP20800	EPP20200	4	M10x160	4	SXP14800	4



UPP

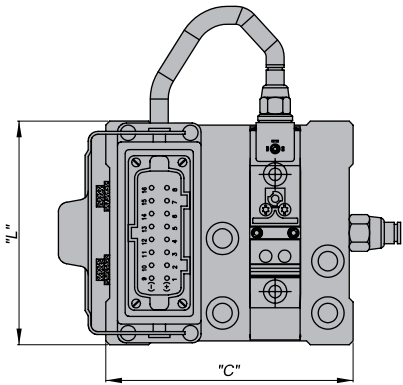
Pneumatic unit, Series 50/200/500/800/1000



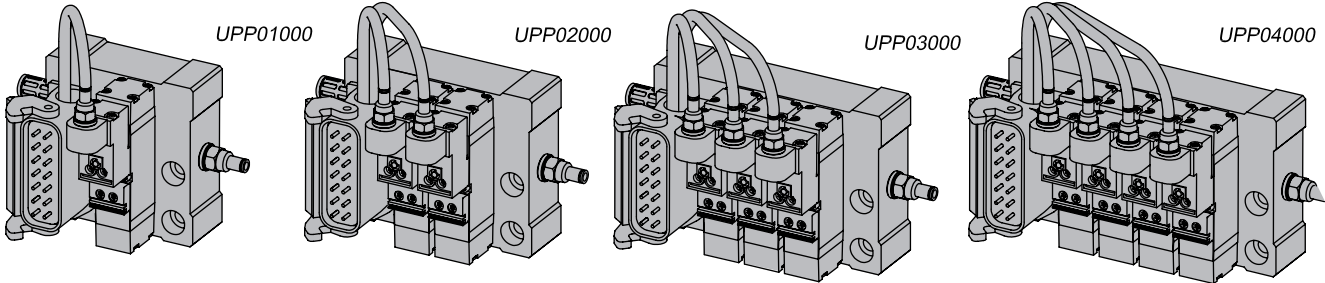
Components specs.		
	Description	REF
①	pneumatic manifold	MPP...
②	nut	B1018
③	screw	M8x60
④	solenoid valve	MN2H52
⑤	base connector	HAN16AB
⑥	connector	HAN16AM

Components specs.		
	Description	REF
⑦	body connector	HAN16AC
⑧	connector	HAN16AF
⑨	silencer	U-1/4-S
⑩	valve socket	KMEB25
⑪	seal ring	SAE2-012

Dimensions and references

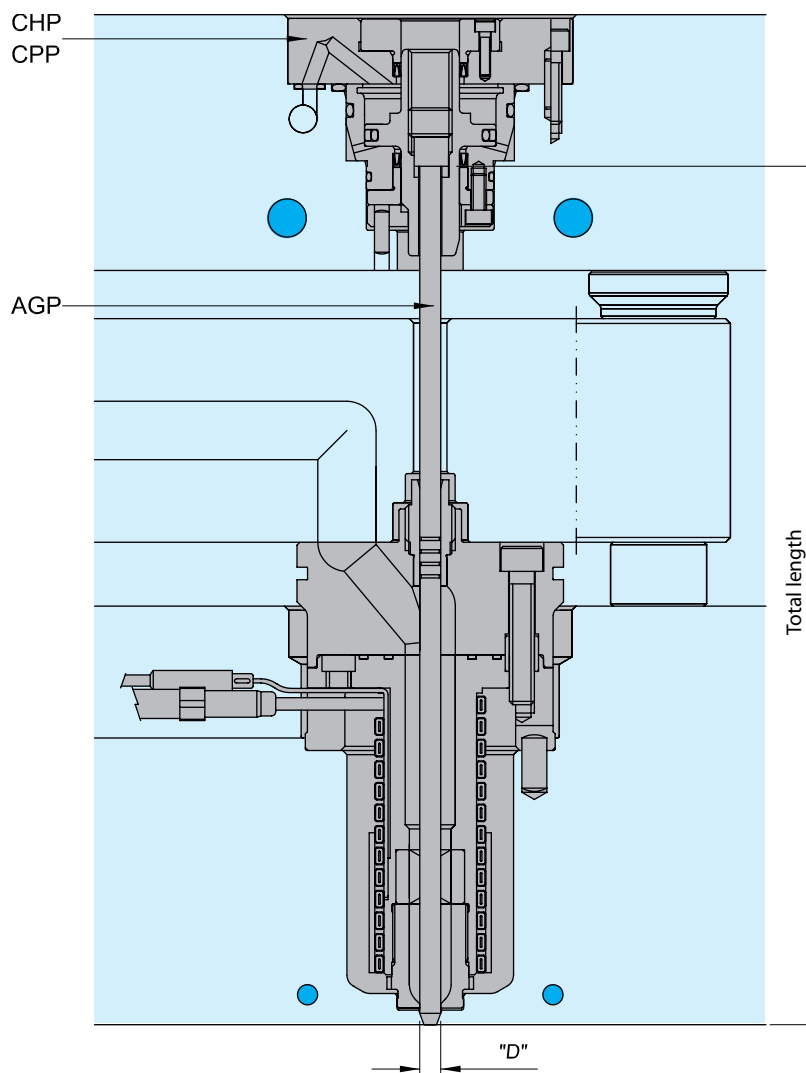


REF	L mm	Dimensions		Pneumatic manifold
		L (mm)	C (mm)	
UPP01000	1	115	135	MPP01000
UPP02000	2	115	165	MPP02000
UPP03000	3	115	195	MPP03000
UPP04000	4	115	225	MPP04000



Valve pin

AGP



Series	ØD mm	Total length					
		100 mm	200 mm	300 mm	400 mm	500 mm	600 mm
50	2,5	AGP06600	AGP06610	AGP06620			
200	4,0		AGP10600	AGP10610	AGP10620		
500	5,0		AGP12600	AGP12610	AGP12620		
800	6,0				AGP16600	AGP16610	AGP16620
1000	8,0				AGP20600	AGP20610	AGP20620

