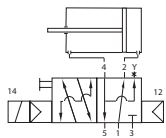
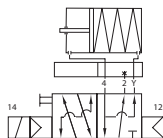


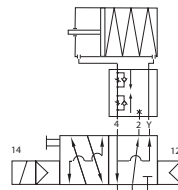
NAMUR-Flex



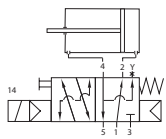
MNH 350 701 on double acting act.



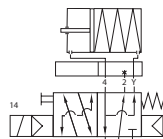
MNH 350 701 and Flex-Pack FP 701 on single acting act.



MNH 350 701 and Flex-Regulator DRF 3 601 on single acting act.



MNH 351 701 on double acting act.



MNH 351 701 and Flex-Pack FP 701 on single acting act.



5/2-way solenoid valve, actuated by permanent signal. Interface according to 1/4" NAMUR-standard. Adding the „Flex-Pack“, converts the valve into a 3/2-way NAMUR-valve with exhaust-air recirculation (“purge”).

MNH 350 701 with pneumatic spring return, MNH 351 701 with combined spring.

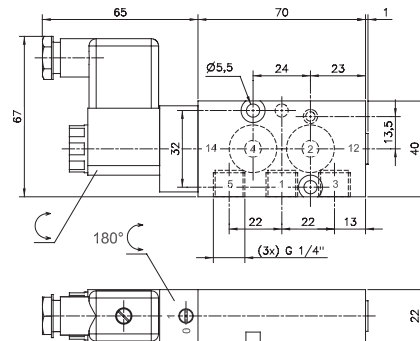
Valves are available with solenoid operators: 230V/50Hz, 110V/50Hz, 24V/50Hz, 48V=, 24V=, 12V=

Valves are generally equipped with manual override.

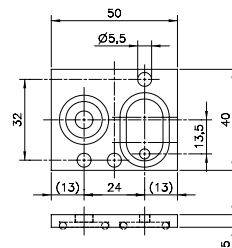
Delivery of valve includes 1 pin, 2 screws, 2 O-rings.

Instead of the Flex-Pack the „Flex-regulator“ Type DRF 601 converts the function of the valve and offers the possibility to control opening- and closing-speed of a spring-return actuator independently.

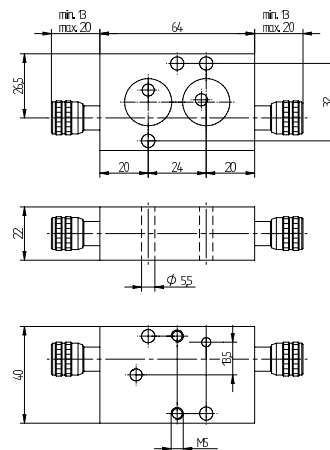
Delivery of FP 701 and DRF 3 601 includes longer screws and seals. DRF 3 601 also includes a plug to close port 3 of the valve.



MNH 350 701/MNH 351 701
MNH 350 701 NPT/MNH 351 701 NPT



FP 701 A



DRF 3 601

Type	Material	Orifice 4	Orifice 2-3	Weight
FP 701 A	alu	7 mm	4 mm	0,016 kg
DRF 3 601	alu + brass	0,5 - 6 mm	4 mm	0,18 kg



Type	Port size	Air flow	Operating press.	Power consumption	Weight
MNH 350 701	G 1/4"	1250 l/min	2 - 10 bar	3 W = / 5 VA ~	0,26 kg
MNH 351 701	G 1/4"	1250 l/min	2,5 - 10 bar	3 W = / 5 VA ~	0,26 kg
MNH 350 701 NPT	1/4" NPT	1250 l/min	2 - 10 bar	3 W = / 5 VA ~	0,26 kg
MNH 351 701 NPT	1/4" NPT	1250 l/min	2,5 - 10 bar	3 W = / 5 VA ~	0,26 kg



MA 22/MA 22 L/MA 22 D/MA 22 U



22 mm wide coils for solenoid valves of the MH-series, type MH, MOH, MEH, MEOH, MNH and MNOH.

Type MA 22

Housing made from heat resistant thermoplastic polyester material 30 % glass filled.

Interface industry form B (DIN / ISO 436 50).

Isolation class F. Wire class H.

Equipped with appropriate connector, solenoid offers IP 65.

AC-coils can be operated at 50 Hz and 60 Hz.



Type MA 22 U



Similar to MA 22 but with UL-certification and in accordance to CSA standard C22.2 (insulation system). Isolation class H due to special moulding material (30% glass reinforced modified polyethylene terephthalate resin).

Coil is labelled with the cURus logo for Canada and United States. Certification number: AMIH-AMS E343908.

Type MA 22 L

Housing made from heat resistant thermoplastic polyester material with 30 % glass filled.

Isolation class F. Wire class H.

Version with flying leads. Cable length 500 mm, others available on request. The coils are not grounded, take national safety regulations into consideration!

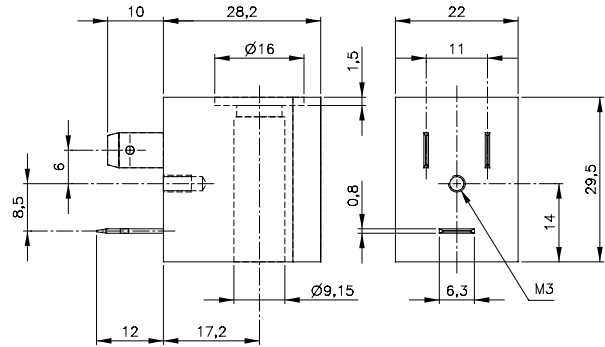
Type MA 22 D

Housing made from Epoxy.

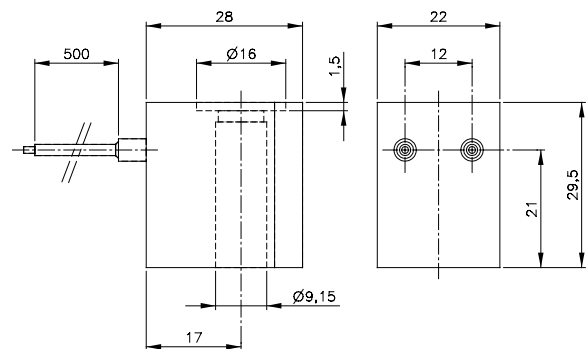
Interface industry form B (DIN/ISO 436 50).

Isolation class F. Wire class H

Equipped with connector type ST 22 L 5000 or ST 222 V __ L 1500 and additional O-rings the system offers IP 67.



MA 22/MA 22 D/MA 22 U



MA 22 L

Suitable connectors for coils displayed on this page, type ST 22 ..., can be found on page 2.14.3.

Type	Voltage	Tolerance	Ampere	Power cons.	Connection	Weight
MA 22 24DC X CE	24 V=	±10 %	120 mA	3 W	Industry form B	0,05 kg
MA 22 24DC X CE L700	24 V=	±10 %	120 mA	3 W	Flying leads 700 mm long	0,06 kg
MA 22 48DC X CE	48 V=	±10 %	59 mA	3 W	Industry form B	0,05 kg
MA 22 220DC	220 V=	±10 %	23 mA	5 W	Industry form B	0,05 kg
MA 22 24AC X CE	24 V~	±10 %	208 mA	5 VA	Industry form B	0,05 kg
MA 22 110AC X CE	110 V~	±10 %	45 mA	5 VA	Industry form B	0,05 kg
MA 22 110AC X CE L500	110 V~	±10 %	45 mA	5 VA	Flying leads 500 mm long	0,06 kg
MA 22 230AC X CE	230 V~	±10 %	22 mA	5 VA	Industry form B	0,05 kg
MA 22 230AC X CE L500	230 V~	±10 %	22 mA	5 VA	Flying leads 500 mm long	0,06 kg
MA 22 D 24DC X CE	24 V=	±10 %	120 mA	3 W	Industry form B	0,06 kg
MA 22 D 24AC X CE	24 V=	±10 %	208 mA	5 VA	Industry form B	0,06 kg
MA 22 D 230AC X CE	230 V~	±10 %	22 mA	5 VA	Industry form B	0,06 kg
MA 22 U 24DC	24 V=	±10 %	120 mA	3 W	Industry form B	0,05 kg
MA 22 U 24AC	24 V=	±10 %	208 mA	5 VA	Industry form B	0,05 kg
MA 22 U 110AC	110 V~	±10 %	45 mA	5 VA	Industry form B	0,05 kg
MA 22 U 230AC	230 V~	±10 %	22 mA	5 VA	Industry form B	0,05 kg

ST 22/ST 22 L 5000/ST 222 V __ L 1500 ST 22 M12/ST 22 NPTF



Connectors for coils type MA 22.

Type ST 22

Connector with black housing.

Using the enclosed flat seal, fastening screw and nut appropriately the system reaches protection class IP 65 in accordance to IEC 60 529.

Type ST 222 V __

Connector with LED and varistor.

Using the enclosed flat seal, fastening screw and nut appropriately the system reaches protection class IP 65 in accordance to IEC 60 529.

Type ST 22 L 5000

Connector with black housing and 5 meter moulded cable.

In combination with the HAFNER Epoxy coils type MA 22 D, adding two O-rings at the top of the solenoid system, fastening screw and nut appropriately the system reaches protection class IP 67 in accordance to IEC 60 529. Seal is part of the housing.

Type ST 222 V __ L 1500

Connector with LED and varistor and 1,5 meter moulded cable.

In combination with the HAFNER Epoxy coils type MA 22 D, adding two O-rings at the top of the solenoid system, fastening screw and nut appropriately the system reaches protection class IP 67 in accordance to IEC 60 529. Seal is part of the housing.

ST 22 M12

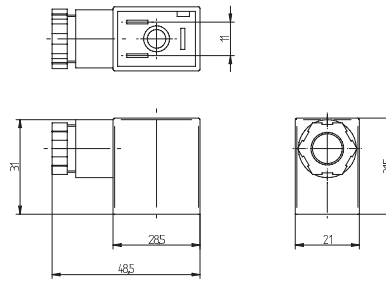
Connector with black housing and M12 x 1 connection.

Using the enclosed flat seal, fastening screw and nut appropriately the system reaches protection class IP 65 in accordance to IEC 60 529.

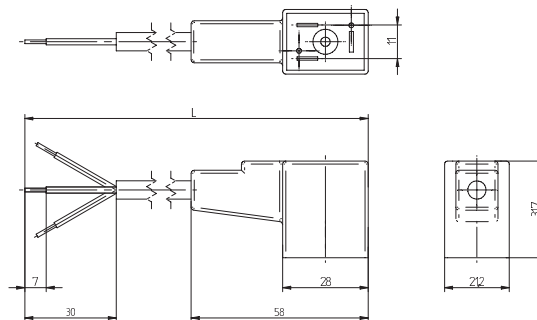
ST 22 NPTF

Connector with black housing and 1/2" NPTF conduit connection. Using the enclosed flat seal, fastening screw and nut appropriately the system reaches protection class IP 65 in accordance to IEC 60 529.

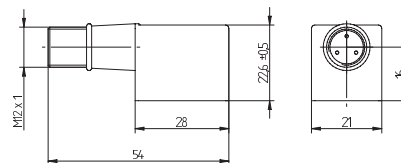
Other connectors are available on request.



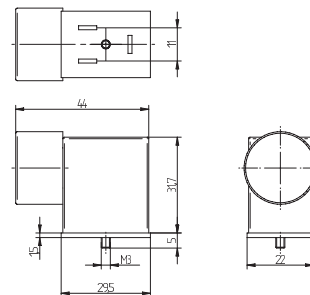
ST 22/ST 222 V __



ST 22 L 5000/ ST 222 V __ L 1500



ST 22 M12



ST 22 NPTF

Type	LED	VAR	Operat. voltage	Max. current	Cable diameter	Cable length [mm]	Cable material	Connection	Weight
ST 22 E1N	no	no	0 - 250 V	10 A	6 - 8 mm			Industry form B - M16x1.5	0,025 kg
ST 22 2 V 24	red	yes	24 V ±10 %	10 A	6 - 8 mm			Industry form B - M16x1.5	0,025 kg
ST 22 2 V 110	red	yes	110 V ±10 %	10 A	6 - 8 mm			Industry form B - M16x1.5	0,025 kg
ST 22 2 V 230	red	yes	230 V ±10 %	10 A	6 - 8 mm			Industry form B - M16x1.5	0,025 kg
ST 22 L 5000	no	no	0 - 250 V	6 A	6,5 mm	5.000	PVC	Industry form B	0,37 kg
ST 22 2 V 24 L 1500	red	yes	24 V ±10 %	6 A	6,5 mm	1.500	PUR	Industry form B	0,14 kg
ST 22 2 V 110 L 1500	red	yes	110 V ±10 %	6 A	6,5 mm	1.500	PVC	Industry form B	0,14 kg
ST 22 2 V 230 L 1500	red	yes	230 V ±10 %	6 A	6,5 mm	1.500	PVC	Industry form B	0,14 kg
ST 22 M12	no	no	0 - 250 V	4 A				Industry form B - M12x1	0,021kg
ST 22 NPTF	no	no	0 - 250 V	10 A				Industry form B - 1/2" NPTF	0,020 kg