**Cable Glands
in Moulded Plastic
Series 8161**

- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Explosion protection type „increased safety”
- Metric and Pg versions
- Degree of protection IP 66
- EEx e and EEx i versions
- Integral stopping plugs (accessories) for closing off unused cable inlets
- Strain relief clamps
- Cable diameter range from 5 to 44 mm
- Protective collar with sprayed-on sealing lip

STAHL

The cable glands are suitable for cable entry in ”increased safety” type enclosures.
The standard DIN 46 320 for Pg threads will be withdrawn in December 1999. Cable glands with Pg threads are available on request.

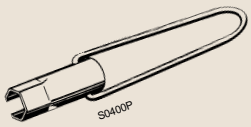
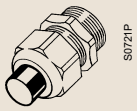
Selection table

Thread size	Cable diameter range [mm]	Width across flats [mm]	Length of thread [mm]	Ordering code EEx e grey design	Ordering code EEx i blue design	Weight [kg]
M 16 x 1,5	5 – 8	19	9	**8161/3 – M 16 – 08**	**8161/4 – M 16 – 08**	0,006
M 20 x 1,5	6 – 12	24	10	**8161/3 – M 20 – 12**	**8161/4 – M 20 – 12**	0,011
M 25 x 1,5	9 – 13	29	10	**8161/3 – M 25 – 13**	**8161/4 – M 25 – 13**	0,015
M 25 x 1,5	12 – 17	29	10	**8161/3 – M 25 – 17**	**8161/4 – M 25 – 17**	0,015
M 32 x 1,5	10 – 18	33	11	**8161/3 – M 32 – 18**	**8161/4 – M 32 – 18**	0,022
M 40 x 1,5	17 – 25	42	12	**8161/3 – M 40 – 25**	**8161/4 – M 40 – 25**	0,037
M 50 x 1,5	23 – 32	53	14	**8161/3 – M 50 – 32**	**8161/4 – M 50 – 32**	0,080
M 63 x 1,5	32 – 44	65	15	**8161/3 – M 63 – 44**	**8161/4 – M 63 – 44**	0,088

Zone 1 and Zone 2

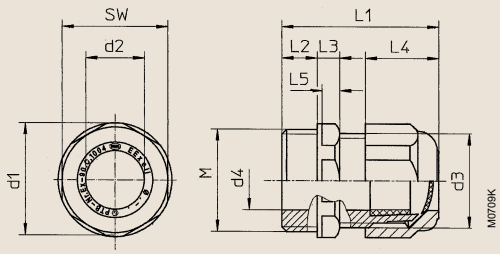
Technical data	
Explosion protection	EEx e II
Test certificate	PTB No. Ex-90.C.1004 other certificates: SZS (Yugoslavia), CSA (Canada), VNIIEF (Russia), FTZU (Czech Republic), BKI (Hungary)
Material	Polyamide (GV), flame resistant, self-extinguishing, impactproof ≥ 7 Nm from – 20 °C to + 70 °C, gasket of neoprene
Degree of protection	IP 68
Colour	8161/3 grey (EEx e) 8161/4 blue (EEx i)

Accessories

Series	Description		Ordering code	Weight [kg]
Spezial key		To tighten the cable gland itself or the cap nut	for thread size	
			M16	**598 603 0**	0,090
			M20	**598 605 0**	0,160
			M25	**598 611 0**	0,180
			M32	**598 607 0**	0,220
			M40	**598 608 0**	0,270
Plugs		for closing off unused cable glands 8161; Polyamide, red		

for thread size	Dimensions [mm] d_1	d_2	L_1	L_2		
M16	10	8	18	5	**81 619 05 59 0**	0,001
M20	14	12	22	10	**81 619 03 59 0**	0,002
M25/32	20	18	25	10	**81 619 01 59 0**	0,005

Dimensions (all dimensions in mm)



Metric version

Thread size	Dimensions [mm] SW	d1	d2	d3	d4	L1 min.	L1 max.	L2	L3	L4	L5	Gasket
M16 x 1,5	19	20,5	8,2	16	8,5	32	36	9	5	16	–	without
M20 x 1,5	24	26	12,2	21,4	12,4	35	41	10	5	17,7	4,2	without
M25 x 1,5	29	32	18	25,6	18	36	44	10	8,1	18,3	6,8	without
M32 x 1,5	33	35,5	18,3	29,4	18,4	43	50	11	7	22,9	5,5	without
M40 x 1,5	42	45,5	25,3	37,4	25,5	47	56	12	7	26	–	without
M50 x 1,5	53	58,5	32,3	49	34,6	56	65	14	8	29,6	–	with
M63 x 1,5	65	72,5	44,2	61,3	43,8	60	68	15	9	31,8	–	with

Cable Glands in Metal

- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Explosion protection type „increased safety”
- Degree of protection IP 68
- Strain relief clamps
- Sealing ring
- Cable diameter range from 2 to 44 mm

STAHL

The cable glands are suitable for cable entry in ”increased safety” type enclosures.
The standard DIN 46 320 for Pg threads will be withdrawn in December 1999. Cable glands with Pg threads are available on request.

Zone 1 and Zone 2

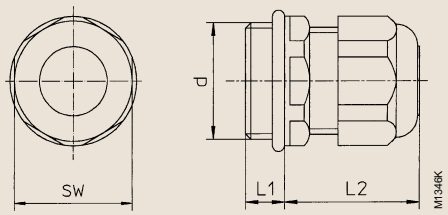
Selection table

Dimensions [mm] Thread size d	Cable dia. range	Width acr. flats SW	Length L2	Length of thread L1	**Ordering code**	Weight [kg]
M16 x 1,5	2 ... 6 4 ... 8	17 17/19	26 20	6 8	**350 503 0** **350 504 0**	0,019 0,018
M20 x 1,5	5 ... 9 6 ... 12	22 22	28 28	6 6	**350 505 0** **350 506 0**	0,030 0,029
M25 x 1,5	9 ... 16 13 ... 18	30 30	32 32	7 7	**350 507 0** **350 508 0**	0,053 0,052
M32 x 1,5	13 ... 20 18 ... 25	40 40	37 37	8 8	**350 509 0** **350 510 0**	0,073 0,070
M40 x 1,5	20 ... 26 22 ... 32	50 50	43 43	8 8	**350 511 0** **350 512 0**	0,169 0,167
M50 x 1,5	25 ... 31 32 ... 38	57 57	46 46	9 9	**350 513 0** **350 514 0**	0,220 0,218
M63 x 1,5	29 ... 35 37 ... 44	68 68	48 48	10 10	**350 515 0** **350 516 0**	0,285 0,280

Technical data

Explosion protection	EEx e II
Test certificate	KEMA No. Ex-93.C.9961
Material	brass nickel plated
Series	hexagon, base with O-ring
Degree of protection	IP 68
Gasket	Perbunan
Ambient temperature	– 40 °C to 105 °C

Dimensions (all dimensions in mm)



Compression glands in metal, IP 68

Thread size d	Dimensions [mm] Cable diameter range	Width across flats SW	Length of thread L1	Length L2
M16 x 1,5	2 ... 6 4 ... 8	17 17/19	6 8	26 20
M20 x 1,5	5 ... 9 6 ... 12	22 22	6 6	28 28
M25 x 1,5	9 ... 16 13 ... 18	30 30	7 7	32 32
M32 x 1,5	13 ... 20 18 ... 25	40 40	8 8	37 37
M40 x 1,5	20 ... 26 22 ... 32	50 50	8 8	43 43
M50 x 1,5	25 ... 31 32 ... 38	57 57	9 9	46 46
M63 x 1,5	29 ... 35 37 ... 44	68 68	10 10	48 48