

CABLE ENTRY SYSTEMS FOR PRO'S

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HENSEL

CONTINUOUS TEST OF DEGREE OF PROTECTION BETWEEN CABLE ENTRY AND BOXES



CABLE ENTRY SYSTEMS

494 ___ 495 ADG, IP 66
Cable glands for normal environment and protected outdoor.

496 ___ 499 AKM/ASS, IP 66/67/69
Cable glands for outdoor installation
(harsh environment and/or outdoor)

500 ___ 501 AKS, IP 65
Pg-Cable glands for outdoor installation
(harsh environment and/or outdoor)

502 ___ 505 KBM/KBS, IP 66/67
Combi climate glands for outdoor installation
(harsh environment and/or outdoor)

506 BM, IP 54
Pressure equalization elements

507 ESM, IP 55
Enclosed grommets for metric knockouts

508 STM, IP 55
Stepped grommets for metric knockouts

509 EDK, IP 65
Grommets

510 EDR, IP 65
Grommets for conduits

ACCESSORIES AND TECHNICAL DETAILS

511 ___ 513 Accessories

514 ___ 521 Technical details

Further technical information can be found on the Internet at hensel-electric.de > Products



ADG 20

Cable glands
for knockouts M20



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 5 mm - 13 mm
+ Bore-hole: Ø 20.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor



ADG 25

Cable glands
for knockouts M25



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 11 mm - 17 mm
+ Bore-hole: Ø 25.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor



ADG 32

Cable glands
for knockouts M32



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 15 mm - 21 mm
+ Bore-hole: Ø 32.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor



ADG 40

Cable glands
for knockouts M40



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 19 mm - 28 mm
+ Bore-hole: Ø 40.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor

MORE INFORMATION ON HENSEL-ELECTRIC.DE



ADG 50

Cable glands
for knockouts M50



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 27 mm - 35 mm
+ Bore-hole: Ø 50.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor



ADG 63

Cable glands
for knockouts M63



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 35 mm - 42 mm
+ Bore-hole: Ø 63.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 66

Application area	Normal environment and protected outdoor



AKM 12

Cable glands
for knockouts M12



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 4 mm - 6 mm
+ Bore-hole: Ø 12.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 16

Cable glands
for knockouts M16



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 5 mm - 10 mm
+ Bore-hole: Ø 16.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 20

Cable glands
for knockouts M20



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 6.5 mm - 13.5 mm
+ Bore-hole: Ø 20.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 25

Cable glands
for knockouts M25



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 11 mm - 17 mm
+ Bore-hole: Ø 25.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation

MORE INFORMATION ON HENSEL-ELECTRIC.DE



AKM 32

Cable glands
for knockouts M32



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 15 mm - 21 mm
+ Bore-hole: Ø 32.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 40

Cable glands
for knockouts M40



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 19 mm - 28 mm
+ Bore-hole: Ø 40.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 50

Cable glands
for knockouts M50



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 27 mm - 35 mm
+ Bore-hole: Ø 50.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKM 63

Cable glands
for knockouts M63



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 35 mm - 42 mm
+ Bore-hole: Ø 63.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 12
Cable glands
for knockouts M12



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 2 mm - 5 mm
+ Bore-hole: Ø 12.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 16
Cable glands
for knockouts M16



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 3 mm - 10 mm
+ Bore-hole: Ø 16.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 20
Cable glands
for knockouts M20



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 5 mm - 13 mm
+ Bore-hole: Ø 20.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 25
Cable glands
for knockouts M25



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 8 mm - 17 mm
+ Bore-hole: Ø 25.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation

MORE INFORMATION ON HENSEL-ELECTRIC.DE



ASS 32
Cable glands
for knockouts M32



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 12 mm - 21 mm
+ Bore-hole: Ø 32.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 40
Cable glands
for knockouts M40



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 16 mm - 28.5 mm
+ Bore-hole: Ø 40.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 50
Cable glands
for knockouts M50



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 21 mm - 35 mm
+ Bore-hole: Ø 50.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



ASS 63
Cable glands
for knockouts M63



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 20 mm - 48 mm
+ Bore-hole: Ø 63.3 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 9

Cable glands

For knockouts Pg 9



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 4 mm - 8 mm
+ Bore-hole: Ø 15.5 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 11

Cable glands

For knockouts Pg 11



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 5 mm - 10 mm
+ Bore-hole: Ø 19 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 13,5

Cable glands

For knockouts Pg 13.5



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 6 mm - 12 mm
+ Bore-hole: Ø 21 mm
+ Suitable for wall thickness: up to 3 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 16

Cable glands

For knockouts Pg 16



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 10 mm - 14 mm
+ Bore-hole: Ø 23 mm
+ Suitable for wall thickness: up to 4 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 21

Cable glands

For knockouts Pg 21



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 13 mm - 18 mm
+ Bore-hole: Ø 29 mm
+ Suitable for wall thickness: up to 4 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 29

Cable glands
For knockouts Pg 29



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 18 mm - 25 mm
+ Bore-hole: Ø 37.5 mm
+ Suitable for wall thickness: up to 4 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 36

Cable glands
For knockouts Pg 36



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 22 mm - 32 mm
+ Bore-hole: Ø 47.5 mm
+ Suitable for wall thickness: up to 5 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 42

Cable glands
For knockouts Pg 42



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 30 mm - 38 mm
+ Bore-hole: Ø 54.5 mm
+ Suitable for wall thickness: up to 5 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

Application area	Outdoor installation



AKS 48

Cable glands
For knockouts Pg 48



+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 34 mm - 44 mm
+ Bore-hole: Ø 60 mm
+ Suitable for wall thickness: up to 6 mm
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

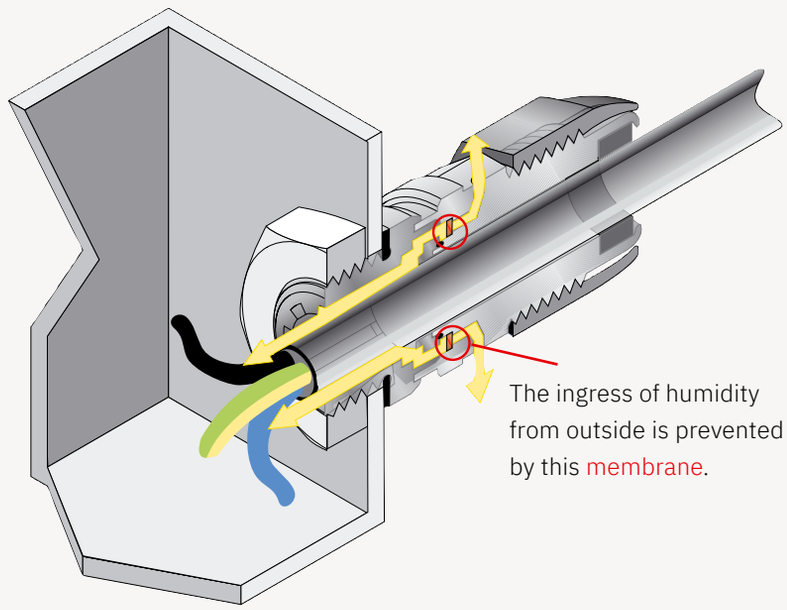
Application area	Outdoor installation

Ventilation and cable entry in one!

In general the formation of water in case of condensation in closed enclosures cannot be prevented in installation areas with high temperature differences!

For adherence to the requested degree of protection the ventilation of the enclosure is effected via a special combi climate gland.
Via an inserted, breathable membrane combi climate glands ensure pressure compensation between enclosure interior and ambient air.


Ducts for air exchange



The combi climate gland allows the cable entry and pressure compensation additionally.

In the consequence accumulated water dries by air exchange away or reduces itself in the course of time. At the same time the degree of protection of the enclosure is obtained (up to IP 67)!

Combi climate glands prevent accumulations of condensation, which can form among others by large temperature fluctuations, like changing weather, intensive solar irradiation etc., in enclosures with high degree of protection.







KBM 20

Combi climate glands for knockouts M20



- For the reduction of condensation by pressure compensation
- With strain relief and locknut
- Sealing range of the cable entry: Ø 6 mm - 13 mm
- Bore-hole: Ø 20.5 mm
- Suitable for wall thickness: up to 3.5 mm
- Maximum enclosure volume per pressure compensation element: 6 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 70 °C
- Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBM 25

Combi climate glands for knockouts M25



- For the reduction of condensation by pressure compensation
- With strain relief and locknut
- Sealing range of the cable entry: Ø 9 mm - 17 mm
- Bore-hole: Ø 25.5 mm
- Suitable for wall thickness: up to 3.5 mm
- Maximum enclosure volume per pressure compensation element: 10 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 70 °C
- Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBM 32

Combi climate glands for knockouts M32



- For the reduction of condensation by pressure compensation
- With strain relief and locknut
- Sealing range of the cable entry: Ø 13 mm - 21 mm
- Bore-hole: Ø 32.5 mm
- Suitable for wall thickness: up to 3.5 mm
- Maximum enclosure volume per pressure compensation element: 12 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 70 °C
- Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBM 40

Combi climate glands for knockouts M40



+ For the reduction of condensation by pressure compensation
+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 16 mm - 28 mm
+ Bore-hole: Ø 40.5 mm
+ Suitable for wall thickness: up to 3 mm
+ Maximum enclosure volume per pressure compensation element: 16 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBS 20

Combi climate glands for knockouts M20



+ For the reduction of condensation by pressure compensation
+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 6 mm - 13 mm
+ Bore-hole: Ø 20.5 mm
+ Suitable for wall thickness: up to 3.5 mm
+ Maximum enclosure volume per pressure compensation element: 6 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBS 25

Combi climate glands for knockouts M25



+ For the reduction of condensation by pressure compensation
+ With strain relief and locknut
+ Sealing range of the cable entry: Ø 9 mm - 17 mm
+ Bore-hole: Ø 25.5 mm
+ Suitable for wall thickness: up to 3.5 mm
+ Maximum enclosure volume per pressure compensation element: 10 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
+ Ambient temperature:- 25 °C up to + 70 °C
+ Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation

MORE INFORMATION ON HENSEL-ELECTRIC.DE



KBS 32

Combi climate glands for knockouts M32



- For the reduction of condensation by pressure compensation
- With strain relief and locknut
- Sealing range of the cable entry: Ø 13 mm - 21 mm
- Bore-hole: Ø 32.5 mm
- Suitable for wall thickness: up to 3.5 mm
- Maximum enclosure volume per pressure compensation element: 12 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 70 °C
- Maximum ambient temperature 24 h: 55 °C

IP 66/67

Application area	Outdoor installation



KBS 40

Combi climate glands for knockouts M40



- For the reduction of condensation by pressure compensation
- With strain relief and locknut
- Sealing range of the cable entry: Ø 16 mm - 28 mm
- Bore-hole: Ø 40.5 mm
- Suitable for wall thickness: up to 3 mm
- Maximum enclosure volume per pressure compensation element: 16 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 70 °C
- Maximum ambient temperature 24 h: 55 °C

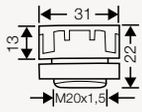
IP 66/67

Application area	Outdoor installation



BM 20G

Pressure compensation element for knockouts M20



- Bore-hole: Ø 20.3 mm
- For the reduction of condensation by pressure compensation bei Verteilersystemen
- Suitable for wall thickness: up to 8 mm
- Maximum enclosure volume per pressure compensation element: 28 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 100 °C
- Maximum ambient temperature 24 h: 55 °C

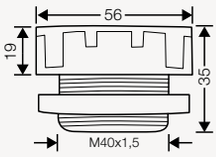
IP 54

Application area	Outdoor installation



BM 40G

Pressure compensation element for knockouts M40



- Bore-hole: Ø 40.3 mm
- For the reduction of condensation by pressure compensation bei Verteilersystemen
- Suitable for wall thickness: up to 8 mm
- Maximum enclosure volume per pressure compensation element: 122 l, In order not to exceed leakage limit of 0.07 bar with pressure compensation
- Ambient temperature:- 25 °C up to + 100 °C
- Maximum ambient temperature 24 h: 55 °C

IP 54

Application area	Outdoor installation



ESM 16

Grommets
for knockouts M16



+ Sealing range of the cable entry: Ø 4.8 mm - 11 mm
+ Bore-hole: Ø 16.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



ESM 20

Grommets
for knockouts M20



+ Sealing range of the cable entry: Ø 6 mm - 13 mm
+ Bore-hole: Ø 20.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



ESM 25

Grommets
for knockouts M25



+ Sealing range of the cable entry: Ø 9 mm - 17 mm
+ Bore-hole: Ø 25.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



ESM 32

Grommets
for knockouts M32



+ Sealing range of the cable entry: Ø 9 mm - 23 mm
+ Bore-hole: Ø 32.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



ESM 40

Grommets
for knockouts M40



+ Sealing range of the cable entry: Ø 17 mm - 30 mm
+ Bore-hole: Ø 40.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



STM 16

Stepped grommets for knockouts M16



+ Sealing range of the cable entry: Ø 3.5 mm - 12 mm
+ Bore-hole: Ø 16.5 mm
+ Suitable for wall thickness: 1.5 mm - 4 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



STM 20

Stepped grommets for knockouts M20



+ Sealing range of the cable entry: Ø 5 mm - 16 mm
+ Bore-hole: Ø 20.5 mm
+ Suitable for wall thickness: 1.5 mm - 4 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



STM 25

Stepped grommets for knockouts M25



+ Sealing range of the cable entry: Ø 5 mm - 21 mm
+ Bore-hole: Ø 25.5 mm
+ Suitable for wall thickness: 1.5 mm - 4 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 55

Application area	Normal environment and protected outdoor



STM 32

Stepped grommets for knockouts M32



+ Sealing range of the cable entry: Ø 13 mm - 26.5 mm
+ Bore-hole: Ø 32.5 mm
+ Suitable for wall thickness: 1.5 mm - 4 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

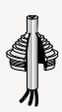
IP 55

Application area	Normal environment and protected outdoor



STM 40

Stepped grommets for knockouts M40



+ Sealing range of the cable entry: Ø 13 mm - 34 mm
+ Bore-hole: Ø 40.5 mm
+ Suitable for wall thickness: 1.5 mm - 4 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

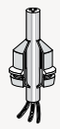
IP 55

Application area	Normal environment and protected outdoor



EDK 16

Grommets
for knockouts M16



+ Sealing range of the cable entry: Ø 5 mm - 10 mm
+ Bore-hole: Ø 16.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

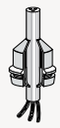
IP 65

Application area	Normal environment and protected outdoor



EDK 20

Grommets
for knockouts M20



+ Sealing range of the cable entry: Ø 6 mm - 13 mm
+ Bore-hole: Ø 20.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

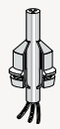
IP 65

Application area	Normal environment and protected outdoor



EDK 25

Grommets
for knockouts M25



+ Sealing range of the cable entry: Ø 9 mm - 17 mm
+ Bore-hole: Ø 25.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

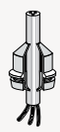
IP 65

Application area	Normal environment and protected outdoor



EDK 32

Grommets
for knockouts M32



+ Sealing range of the cable entry: Ø 8 mm - 23 mm
+ Bore-hole: Ø 32.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

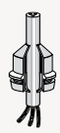
IP 65

Application area	Normal environment and protected outdoor



EDK 40

Grommets
for knockouts M40



+ Sealing range of the cable entry: Ø 11 mm - 30 mm
+ Bore-hole: Ø 40.5 mm
+ Suitable for wall thickness: 1.5 mm - 3.5 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

IP 65

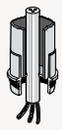
Application area	Normal environment and protected outdoor



IP 65

EDR 16

Grommets for conduits for knockouts M16



+ Bore-hole: Ø 16.5 mm
+ Pipe size: M16
+ Suitable for wall thickness: 1.5 mm - 3.2 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

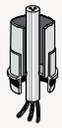
Application area	Normal environment and protected outdoor



IP 65

EDR 20

Grommets for conduits for knockouts M20



+ Bore-hole: Ø 20.5 mm
+ Pipe size: M20
+ Suitable for wall thickness: 1.5 mm - 3.2 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

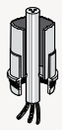
Application area	Normal environment and protected outdoor



IP 65

EDR 25

Grommets for conduits for knockouts M25



+ Bore-hole: Ø 25.5 mm
+ Pipe size: M25
+ Suitable for wall thickness: 1.5 mm - 3.2 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

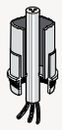
Application area	Normal environment and protected outdoor



IP 65

EDR 32

Grommets for conduits for knockouts M32



+ Bore-hole: Ø 32.5 mm
+ Pipe size: M32
+ Suitable for wall thickness: 1.5 mm - 3.2 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

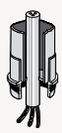
Application area	Normal environment and protected outdoor



IP 65

EDR 40

Grommets for conduits for knockouts M40



+ Bore-hole: Ø 40.5 mm
+ Pipe size: M40
+ Suitable for wall thickness: 1.5 mm - 3.2 mm
+ Ambient temperature:- 25 °C up to + 40 °C
+ Maximum ambient temperature 24 h: 35 °C

Application area	Normal environment and protected outdoor

HENSEL

ACCESSORIES





IP 66/67

VSB 13

Sealing plug

+ Bore-hole: Ø 13 mm
+ For sealing combi climate glands which are not used for cable entry
+ Ambient temperature:- 25 °C up to + 55 °C
+ Maximum ambient temperature 24 h: 35 °C

Application area	Normal environment and protected outdoor



IP 66/67

VSB 21

Sealing plug

+ Bore-hole: Ø 21 mm
+ For sealing combi climate glands which are not used for cable entry
+ Ambient temperature:- 25 °C up to + 55 °C
+ Maximum ambient temperature 24 h: 35 °C

Application area	Normal environment and protected outdoor



KHR 01

Cable retention system
for cable diameter 6.5 - 14 mm

+ Set with 10 x 6 retaining rings
+ 30 pieces for cable diameter 6.5 mm - 10 mm
  30 pieces for cable diameter 10 mm - 14 mm



KHR 02

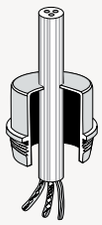
Cable retention system
for cable diameter 10 - 16 mm

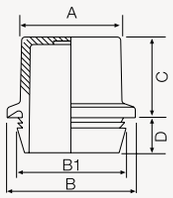
+ Set with 10 x 6 retaining rings
+ 30 pieces for cable diameter 10 mm - 14 mm
  30 pieces for cable diameter 13 mm - 16 mm

CABLE ENTRY SYSTEMS
TECHNICAL DETAILS



	ESM ... **STM ...** **EDK ...** **EDR ...** **KST...** **MV FP 66**	**Ste ...**	**ADG ...**	**AKS ...** **AKM ...** **ASS ...** **KBM ...** **KBS ...** **BM ... G**	**AKM ...** **ASS ...**
Application area	Suitable for indoor installation (normal environment and/or protected outdoor)			Suitable for **outdoor installation** - harsh environment and / or outdoor	**Resistance to occasional cleaning procedures (direct jet)** with high-pressure cleaner without cleaning additives, water pressure: max. 100 bar, water temperature max. 80 °C, distance ≥ 0.15 m, in accordance with DIN EN 60529:2014-09 (IEC 60529:2013) = IP 69. Suitable for unprotected outdoor installation in accordance with DIN VDE 0100-737
Ambient temperature + Average value over 24 hours + Maximum value + Minimum value	 + 35 °C + 40 °C - 25 °C	 + 35 °C + 40 °C - 25 °C	 + 35 °C + 40 °C - 25 °C	 + 55 °C + 70 °C - 25 °C	 + 55 °C + 70 °C - 25 °C
Fire protection in the event of internal faults	Demands placed on electrical devices from standards and laws: Minimum requirements + Glow wire test in accordance with IEC 60695-2-11: + 650 °C for boxes and Cable glands				
Burning behavior + Glow wire test IEC 60695-2-11 + UL Subject 94	 750 °C – flame retardant self-extin-guishing	 650 °C –	 750 °C – flame retardant self-extin-guishing	 960 °C V-0 flame retardant self-extinguishing	 960 °C V-0 flame retardant self-extinguishing
Toxic behavior	halogen-free [1)] silicone-free	silicone-free	halogen-free [1)] silicone-free	halogen-free [1)] silicone-free	halogen-free [1)] silicone-free
	[1)] “Halogen-free” in accordance with IEC 60754-2 “Common test methods for cables - Determination of the amount of halogen acid gas”. **For material properties see technical data.**				



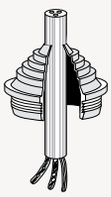


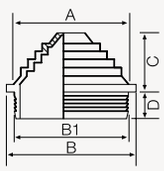
Grommets ESM

Degree of protection IP 55

Grommets ESM are inserted into knockouts. There is no counternut required!

Grommets in mm	A	B	B1	C	D
ESM 16	16,5	22	18,5	14,5	8,5
ESM 20	20,5	26	22,5	14,5	8,5
ESM 25	26,0	31	27,5	14,5	8,5
ESM 32	33,0	38	34,5	17,5	8,5
ESM 40	41,0	46	42,5	17,5	8,5



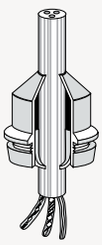


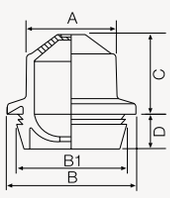
Stepped grommets STM

Degree of protection IP 55

Stepped glands STM are inserted into knockouts. There is no counternut required!

Stepped grommets in mm	A	B	B1	C	D
ESM 16	13,2	21,2	19	7,4	8,0
ESM 20	18,0	25	23	9,2	8,0
ESM 25	21,6	30	28	11,5	7,4
ESM 32	27,6	37	35	11,5	8,6
ESM 40	33,6	45	43	15,1	8,6



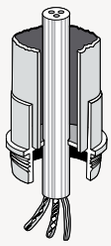


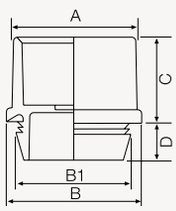
Grommets EDK

Degree of protection IP 65

Grommets EDK are inserted into knockouts. There is no counternut required!

Grommets in mm	A	B	B1	C	D
ESM 16	14,5	22	18,5	13,5	8,5
ESM 20	18,5	26	22,5	14,5	8,5
ESM 25	23,5	31	27,5	14,5	8,5
ESM 32	30,5	38	34,5	19,5	8,5
ESM 40	38,5	46	42,5	19,5	8,5



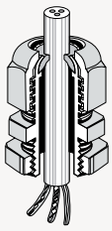


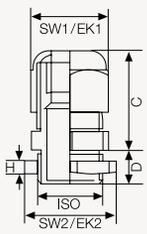
Grommets for conduits EDR

Degree of protection IP 65

Grommets for conduits EDR are inserted into knockouts.
There is no counternut required!

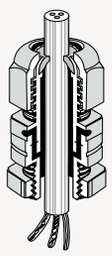
Grommets for conduits in mm	A	B	B1	C	D
ESM 16	20	22	18,5	14,5	8,5
ESM 20	24	26	22,5	14,5	8,5
ESM 25	29	31	27,5	14,5	8,5
ESM 32	36	38	34,5	17,5	8,5
ESM 40	44	46	42,5	17,5	8,5

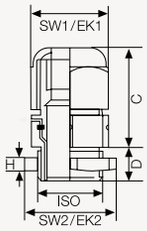




Cable glands AKM/ASS with strain relief counternut

in mm	ISO	SW1 across flats	EK1 across corners Ø	C max.	D	SW2 across flats	EKS across corners Ø	H
AKM/ASS 12	M 12	15	16,4	22	8	17	19,0	5
AKM/ASS 16	M 16	20	22,0	26	8	22	24,7	5
ADG/AKM/ASS 20	M 20	24	26,5	29	8	27	30,2	6
ADG/AKM/ASS 25	M 25	29	32,0	34	8	32	36,0	6
ADG/AKM/ASS 32	M 32	36	39,7	39	10	41	46,0	7
ADG/AKM/ASS 40	M 40	46	50,5	46	10	50	54,1	7
ADG/AKM/ASS 50	M 50	55	60,0	51	10	60	66,3	8
ADG/AKM/ASS 63	M 63	68	74,7	55	10	75	83,0	8

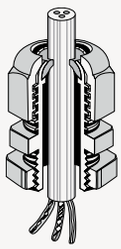




Combi climate glands KBM / KBS with strain relief counternut

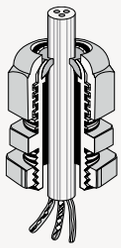
in mm	ISO	SW1 across flats	EK1 across corners Ø	C max.	D	SW2 across flats	EKS across corners Ø	H
KBM / KBS 20	M 20	24	27,0	42	8	27	29,0	5
KBM / KBS 25	M 25	29	32,0	45	8	32	35,5	5
KBM / KBS 32	M 32	36	40,0	47	10	40	44,5	6
KBM / KBS 40	M 40	46	50,5	59	10	50	54,1	7

Cable glands ADG
Degree of protection IP 66
With strain relief and counternut



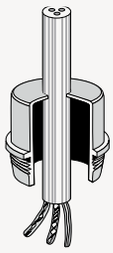
Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
5	13	ADG 20
11	17	ADG 25
15	21	ADG 32
19	28	ADG 40
27	35	ADG 50
35	42	ADG 63

Cable glands AKM/ASS
Degree of protection IP 66/IP 67/IP 69
With strain relief and counternut



Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
4	6	AKM 12
5	10	AKM 16
6,5	13,5	AKM 20
11	17	AKM 25
15	21	AKM 32
19	28	AKM 40
27	35	AKM 50
35	42	AKM 63
2	5	ASS 12
3	10	ASS 16
5	13	ASS 20
8	17	ASS 25
12	21	ASS 32
16	28,5	ASS 40
21	35	ASS 50
20	48	ASS 63

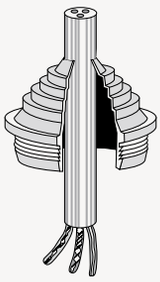
Grommets ESM
Degree of protection IP 55
Grommets are inserted into knockouts. No nut is necessary!



Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
4,8	11	ESM 16
6	13	ESM 20
9	17	ESM 25
9	23	ESM 32
17	30	ESM 40

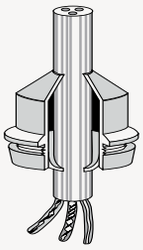
HENSEL

Stepped grommets STM
Degree of protection IP 55
Stepped grommets are inserted into knock outs. No nut is necessary!



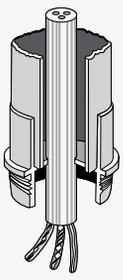
Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
3,5	12	STM 16
5	16	STM 20
5	21	STM 25
13	26,5	STM 32
13	34	STM 40

Grommets EDK
Degree of protection IP 65
Grommets are inserted into knockouts.No nut is necessary!



Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
5	10	EDK 16
6	13	EDK 20
9	17	EDK 25
8	23	EDK 32
11	30	EDK 40

Grommets for conduits EDR
Degree of protection IP 65
Grommets for concuits are inserted into knockouts.
No nut is necessary!



Outside diameter of cables		Cable entry
min. mm Ø	max. mm Ø	metric
Pipe connection		
M16		EDR 16
M20		EDR 20
M25		EDR 25
M32		EDR 32
M40		EDR 40

Hensel cable entries comply with the following standards and regulations:

+ EN 50262 Metric cable entries for electrical installations
+ EN 60423 Conduits for electrical purposes - Outside diameter of conduits for electrical installations and threads for conduits and fi ttings
+ IEC 60529 Degrees of protection provided by enclosures (IP-Code)

The outside diameters are average values of different products.

Cable cross-section mm²	NYM mm Ø	NYY mm Ø	NYCY NYCWY mm Ø	NAYY mm²
1x4	6,4-6,6	9-9,1		
1x6	6,8-7,2	9-9,5		
1x10	8,8-8,4	10-10,2		
1x16	9,1-9,9	11-11,2		10,5
1x25	12-12,3	12-13		12
1x35		13-14		13-13,5
1x50		15-16		15,15,5
1x70		16,4-17		16,5-17
1x95		18,5-19		19
1x120		20,5-21		20-20,5
1x150		22,5-23		22-22,5
1x185		24,6-25		25
1x240		27-28		28
1x300		29,7-30		30
2x1,5	8,7	11-12		
2x2,5		12-12		
2x4		14-15		
2x6		15		
2x10		16,5-17	11	
2x16		18,5-19	12	
2x25		23-23,5		
2x35				
3x1,5	8,2-9,1	11,2-12	13	
3x2,5	9,4-10,4	12,2-13	13,5	
3x4	10,8-12	14-15	15,5	
3x6	12,2-13	15-16	17	
3x10	14,7	17-18	19-19,5	
3x16		19-20	20,5-21	
3x25		24	24-25	
3x35		22,6-25,4		
3x50		26,5		
3x70		29,7-30		
3x95		33,8-34,5		
3x120		35,8-37		
3x150		39, 8-40		
3x185		46		
3x240		51		
3x25/16		24,5	25,5-26	
3x35/16		28	27-27,5	
3x50/25		28,7-29	28,7-29,5	
3x70/35		32	33	
3x95/50		37,8-38	38	
3x120/70		41	41	
3x150/70		45-46	45	
3x185/95		50-51	50	
3x240/120		57-58	57	
3x300/150		64		

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Cable cross-section	NYM	NYY	NYCY NYCWY	NAYY
mm²	mm Ø	mm Ø	mm Ø	mm²
4x1,5	8,8-9,8	12-13	13,2-13,5	
4x2,5	10,2-11,3	13,2-14	14,2-14,5	
4x4	12,1-13	15-16	16,5	
4x6	16,1-17,6	16,3-17	17,5	
4x10	19-21,3	18,5-19	19,5 -20	
4x16	19-21,3	21-21,5	21,4-23	23-24
4x25	23,4-25,8	25,5-26	26	25-26
4x35	25,7-28,5	27,5-28	27,5	28-28,5
4x50		29,8-30,5	29,5	29,5-30
4x70		33,8-34,5	34	35
4x95		38,9-39	38-38,5	39-39,5
4x120		42-42,5	42	43-44
4x150		47-47,5	46	46
4x185		52	51	51
4x240		58		56
4x300		62,4		64-65,5
4x25/16			27,6-28	
4x35/16			28,6-29	
4x50/25			33	
4x70/35			37	
4x95/50			43-43,9	
4x120/70			47	
4x150/70			51	
4x185/95			56	
4x240/120			62,5-63	
4x300/150				
5x1,5	9,5-10,3	13-14	14,5	
5x2,5	11-12	14,2-15	15,5	
5x4	13,2-14,5	16,3-17	17	
5x6	14,5-16,1	18-19	18,5	
5x10	17,7-19,2	19,5-21	20,5-21	19,3-22
5x16	21,2-23,4	22,4-23	23-23,5	22,5-25
5x25	25,7-28,7	27,5-29		27,1-28
5x35	33,5	33,6-35		30,2-31
5x50		40-41		35-36,2
5x70		42-48		40-44
5x95		50-50,3		45-47
5x120		51,3		49-53
5x150		58,5		56-57,8
5x185				59
5x240				71
7x1,5	10,5-11,5	15,5-15		
7x2,5	12,6-13,2	16,5-17		
19x1,5		22-22,5		
19x2,5		23-23,5		
24x1,5		25-25,5		
24x2,5		27-27,5		

Short forms of cables

NYM	Light plastic-sheathed cable
NYY/NAYY	Plastic-sheathed cable
NYCY	Plastic-sheathed cable with concentric conductor
NYCWY	Plastic-sheathed cable with concentric. undulated conductor