



- The cable glands may be used for direct insertion as a part of explosion-proof enclosures of IIA, IIB+H₂, IIC subgroups, which have the volume exceeding 2000 cm³. It helps to refuse the compound barrier glands.
- Use of one sealing ring on the whole diameter range of crimped cable allows the gland to withstand the force in newtons, which is equal to the twentyfold diameter value (in mm) of the mandrel or the cable.
 - KNV cable glands are used for cables with operating voltage over 3.3 kV.
 - KNV cable glands are suitable for use with the equipment having ExnR marking.
 - Increased wall thickness considerably enhances the strength of cable gland.
 - There is the option to use an additional sealing ring for extension of the crimped cable diameter range (available for KNV2, KNV3).

MARKING

- 1Ex d IIC Gb
- 1Ex e II Gb
- 0Ex ia IIC Ga
- 2Ex nR II Gc

MINING EQUIPMENT MARKING

- PB Ex d I Mb
- PO Ex ia I Ma
PH1, PH2

CERTIFICATES AND PERMITS

- GOST R ISO 9001-2015 (ISO 9001:2015)
- TC RU C-RU.AA87.B.00304
- IECEX CCVE 17.0004 (dimension types from 01 to 6)
- POCC RU.EX01.B00002
- TC RU C-RU.MA02.B.00626
- Maritime Register Type Approval Certificate No. 16.03659.315
- TU 3400-007-72453807-07
- PJSC GAZPROM No. FO00.RU.1131.H00667

CODES

- GOST 14254-96 (IEC 529-89)
- GOST 30852.8-2002
- GOST 30852.14-2002
- GOST 30852.10-2002 (IEC 60079-11:1999),
- GOST 30852.20-2002
- GOST R IEC 60079-0-2011
- GOST IEC 60079-1-2011
- GOST 24754-2013
- Electrical Installation Code Ch. 7.3, Ch. 7.4
- Regulatory Document 5.2-093-2004
- TR CU 004/2011
- TR CU 012/2011
- GOST 12.2.007.0-75

TECHNICAL CHARACTERISTICS

Thread on connecting holes

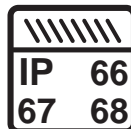
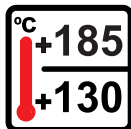
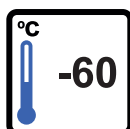
- Code N for NPT inch taper thread
- Code M for metric thread, GOST 24705-81
- Code R for R taper pipe thread, GOST 6211-81
- Code G for cylindrical pipe thread, GOST 6357-81

Material

- Nickel-plated brass resistant to vapour of hydrogen sulphide, hydrochloric acid and sea fog, NK code
- Stainless steel of 08X18H10 grade as per GOST 5632-72 (AISI 304), N code

Climatic category

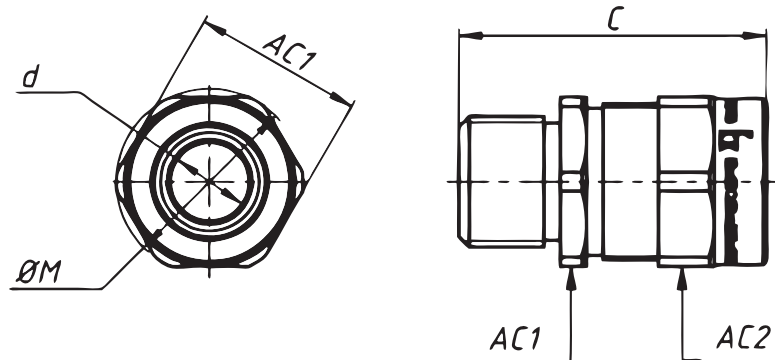
- NF1 (NF2, NF3, NF4, NF5, F1, F2, F3, F5, T1, T2, T3, T5, MU1, MU2, MU3, MU4, W2.13**, W5 upon request)



OPTIONS, ACCESSORIES AND VERSIONS

DESCRIPTION	MARKING
Stainless steel of 03X17H13M2 grade as per GOST 5632 (AISI 316L)	/316
Grounding ring	/A31
Locknut for straight thread	/KG
Marine version	/MORE
External seal for ingress protection (IP) on thread (straight thread only)	/UKF
Protective shroud (for closing of unused cable gland)	/VZKV
Additional sealing ring for extension of the crimped cable diameter range (available for KNV2, KNV3 only)	/R
Non-explosion-proof general industrial version	/PROM

DESIGN PARAMETERS



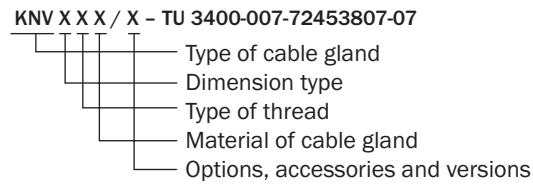
KNV explosion-proof cable glands, NPT inch taper thread

Dimension type of cable gland		Thread	Overall dimensions, mm				Diameter of crimped cable, mm	Weight, kg
Main name	Another name		AC1	AC2	ØM	C		
KNV01N	FEC01N	3/8" NPT	24	24	26	54	3 - 8	0.10
KNV1N	FEC1N	1/2" NPT	26	26	28,5	50	6 - 12	0,08
KNV2N	FEC2N	3/4" NPT	34	34	38	54,5	12 - 18	0,15
KNV2N.../P	FEC2N.../P	3/4" NPT	34	34	38	54,5	6 - 18	0,15
KNV3N	FEC3N	1" NPT	40	40	44,5	62,5	18 - 25	0,19
KNV3N.../P	FEC3N.../P	1" NPT	40	40	44,5	62,5	12 - 25	0,19
KNV4N	FEC4N	1 1/4" NPT	50	50	56	60	25 - 31	0,34
KNV5N	FEC5N	1 1/2" NPT	57	60	67	69	31 - 39	0,53
KNV6N	FEC6N	2" NPT	68	70	77	74	39 - 47	0,81
KNV7N	FEC7N	2 1/2" NPT	80	75	88	80	47 - 55	1.3
KNV71N	FEC71N	2 1/2" NPT	82	78	90	84	55 - 63	1.2
KNV8N	FEC8N	3" NPT	95	90	105	84	63 - 71	1.5
KNV81N	FEC81N	3" NPT	102	98	110	86	71 - 79	1.5
KNV10N	FEC10N	4" NPT	115	110	122	97	79 - 87	2,6
KNV101N	FEC101N	4" NPT	120	115	128	107	84 - 92	2,8

KNV explosion-proof cable glands, metric thread GOST 24705-81

Dimension-type of cable gland		Thread	Overall dimensions, mm				Diameter of crimped cable, mm	Weight, kg
Main name	Another name		AC1	AC2	ØM	C		
KNV01M	FEC01I	M16 x 1,5	24	24	26	53	3 - 8	0.10
KNV1M	FEC1I	M20 x 1,5	26	26	28,5	46	6 - 12	0,075
KNV2M	FEC2I	M25 x 1,5	34	34	38	51	12 - 18	0,13
KNV2M.../P	FEC2I.../P	M25 x 1,5	34	34	38	51	6 - 18	0,13
KNV3M	FEC3I	M32 x 1,5	40	40	44,5	56,5	18 - 25	0,17
KNV3M.../P	FEC3I.../P	M32 x 1,5	40	40	44,5	56,5	12 - 25	0,17
KNV4M	FEC4I	M40 x 1,5	50	50	56	54	25 - 31	0,32
KNV5M	FEC5I	M50 x 1,5	57	60	67	61	31 - 39	0,52
KNV6M	FEC6I	M63 x 1,5	68	70	77	64	39 - 47	0,79
KNV7M	FEC7I	M75 x 1,5	80	75	88	70	47 - 55	1,1
KNV71M	FEC71I	M75 x 1,5	82	78	90	74	55 - 63	0,9
KNV8M	FEC8I	M90 x 1,5	95	90	105	74	63 - 71	1,3
KNV81M	FEC81I	M90 x 1,5	102	98	110	76	71 - 79	1,3
KNV10M	FEC10I	M100 x 1,5	115	110	122	97	79 - 87	2,6
KNV101M	FEC101I	M100 x 1,5	120	115	128	107	84 - 92	2,8

FORMATION OF MARKING







Example of order:

- | | |
|--|--|
| <p>KNV1MNK - TU 3400-007-72453807-07</p> <ul style="list-style-type: none"> - type of cable gland: KNV - size and type of thread: 1M (metric thread M20x1.5) - material: NK, nickel-plated brass | <p>KNV3NN/316 - TU 3400-007-72453807-07</p> <ul style="list-style-type: none"> - type of cable gland: KNV - size and type of thread: 3N (inch taper thread NPT 1") - material: N, stainless steel of AISI 316L grade |
|--|--|



- Use of one sealing ring on the whole diameter range of crimped cable allows the gland to withstand the force in newtons, which is equal to the twentyfold diameter value (in mm) of the mandrel or the cable.
- The cable glands may be used for direct insertion as a part of explosion-proof enclosures of IIA, IIB+H2, IIC subgroups, which have the volume exceeding 2000 cm³. It helps to refuse the compound barrier glands.
- KOV cable gland may be used for all types of cable armour/braid: wire armour, braid, tape armour.
- KOV cable glands may be used for cables with operating voltage over 3.3 kV.
- Increased wall thickness considerably enhances the strength of cable gland.



MARKING

-  1Ex d IIC Gb
-  1Ex e II Gb
-  0Ex ia IIC Ga
-  2Ex nR II Gc

MINING EQUIPMENT MARKING

-  PB Ex d I Mb (for stainless steel up to 3/4", nickel-plated brass from 1")
 -  PO Ex ia I Ma (for stainless steel up to 3/4", nickel-plated brass from 1")
- PH1, PH2

CERTIFICATES AND PERMITS

R ISO 9001-2015 (ISO 9001:2015)
 IECEx CCVE 17.0004 (dimension types from 01 to 6)
 TC RU C-RU.AA87.B.00304
 TC RU C-RU.MA02.B.00626
 POCC RU.EX01.B00002
 Maritime Register Type Approval Certificate No.
 16.03659.315
 TU 3400-007-72453807-07
 PJSC GAZPROM No. FO00.RU.1131.H00667

CODES

GOST 14254-96 (IEC 529-89)
 GOST R IEC 60079-0-2011
 GOST 30852.8-2002
 GOST 30852.14-2002
 GOST 30852.10-2002 (IEC 60079-11:1999)
 GOST 30852.20-2002
 GOST IEC 60079-1-2011
 GOST 24754-2013
 Electrical Installation Code Ch. 7.3, Ch. 7.4 Regulatory Document 5.2-093-2004
 TR CU 004/2011
 TR CU 012/2011
 GOST 12.2.007.0-75

TECHNICAL CHARACTERISTICS

Thread on connecting holes

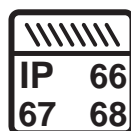
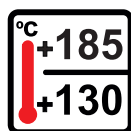
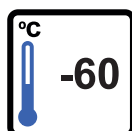
Code **N** for NPT inch taper thread
 Code **M** for metric thread, GOST 24705-81
 Code **R** for R taper pipe thread, GOST 6211-81
 Code **G** for cylindrical pipe thread, GOST 6357-81

Material

Nickel-plated brass resistant to vapour of hydrogen sulphide, hydrochloric acid and sea fog, NK code
 Stainless steel of 08X18H10 grade as per GOST 5632-72 (AISI 304), N code

Climatic category

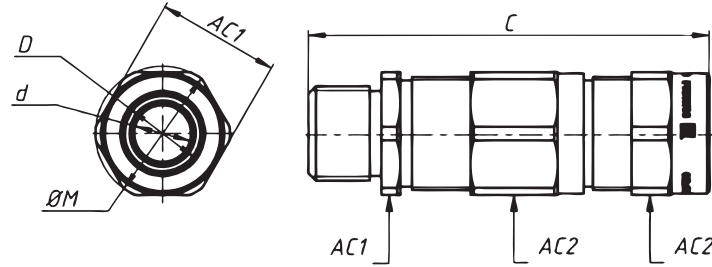
NF1 (NF2, NF3, NF4, NF5, F1, F2, F3, F5, T1, T2, T3, T5, MU1, MU2, MU3, MU4, W2.13**, W5 upon request)



OPTIONS, ACCESSORIES AND VERSIONS

DESCRIPTION	MARKING
Stainless steel of 03X17H13M2 grade as per GOST 5632 (AISI 316L)	/316
External seal for ingress protection (IP) on thread (straight thread only)	/UKF
Protective plug (for closing of unused cable gland)	/VZKV
Grounding ring	/A31
Locknut for straight thread	/KG
Non-explosion-proof general industrial version	/PROM
Marine version	/MORE

DESIGN PARAMETERS



KOV explosion-proof cable glands, metric thread GOST 24705-81

Dimension type of cable gland		Thread	Overall dimensions, mm				Diameter of crimped cable, mm		Weight, kg
Main name	Another name		AC1	AC2	ØM	C	Inner Ød	Outer ØD	
KOV01M	FECA01I	M16 x 1,5	24	24	26	79	3 - 8	8-12	0,20
KOV1M	FECA1I	M20 x 1,5	26	26	28,5	83	6 - 12	9-17	0,15
KOV2M	FECA2I	M25 x 1,5	34	34	38	96	12 - 18	15-25	0,27
KOV3M	FECA3I	M32 x 1,5	40	40	44,5	106	18 - 25	21-31	0,37
KOV4M	FECA4I	M40 x 1,5	50	50	56	103	25 - 31	27-37	0,57
KOV5M	FECA5I	M50 x 1,5	57	60	67	111,5	31 - 39	36-46	0,92
KOV6M	FECA6I	M63 x 1,5	68	70	77	121,5	39 - 47	45-53	1,41
KOV7M	FECA7I	M75 x 1,5	80	80	88	124	47 - 55	52-65	1,8
KOV71M	FECAS7I	M75 x 1,5	90	92	102	124	55 - 63	65-75	2,3
KOV8M	FECA8I	M90 x 1,5	95	97	105	132	63 - 71	71-81	2,6
KOV81M	FECAS8I	M90 x 1,5	102	108	118	132	71 - 79	81-91	2,9

KOV explosion-proof cable glands, NPT inch taper thread

Dimension type of cable gland		Thread	Overall dimensions, mm				Diameter of crimped cable, mm		Weight, kg
Main name	Another name		AC1	AC2	ØM	C	Inner Ød	Outer ØD	
KOV01N	FECA01N	3/8" NPT	24	24	26	80	3 - 8	8-12	0,20
KOV1N	FECA1N	1/2" NPT	26	26	28,5	85	6 - 12	9-17	0,19
KOV2N	FECA2N	3/4" NPT	34	34	38	98	12 - 18	15-25	0,31
KOV3N	FECA3N	1" NPT	40	40	44,5	115	18 - 25	21-31	0,42
KOV4N	FECA4N	1 1/4" NPT	50	50	56	110	25 - 31	27-37	0,62
KOV5N	FECA5N	1 1/2" NPT	57	60	67	119	31 - 39	36-46	0,94
KOV6N	FECA6N	2" NPT	68	70	77	131	39 - 47	45-53	1,45
KOV7N	FECA7N	2 1/2" NPT	80	80	88	134	47 - 55	52-65	2,0
KOV71N	FECAS7N	2 1/2" NPT	90	92	102	134	55 - 63	65-75	2,5
KOV8N	FECA8N	3" NPT	95	97	105	142	63 - 71	71-81	2,8
KOV81N	FECAS8N	3" NPT	102	108	118	142	71 - 79	81-91	3,1

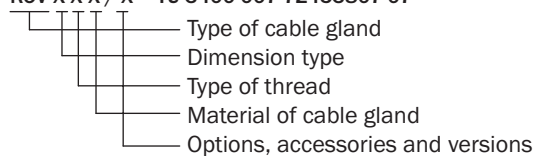
Special dimension types of KOV (FECA, FECAS) explosion-proof cable glands, with reduced diameter

Dimension type of cable gland		Thread	Overall dimensions, mm				Diameter of crimped cable, mm		Weight, kg
Main name	Another name		AC1	AC2	ØM	C	Inner Ød	Outer ØD	
KOV011N	FECAS01N	3/8"» NPT	26	26	28,5	86	6 - 11	9 - 17	0,17
KOV12N	FECA12N	1/2"» NPT	34	34	38	97,5	6 - 12	15 - 25	0,3
KOV11N	FECAS1N	1/2"» NPT	34	34	38	102	12 - 15	15 - 25	0,32
KOV011M	FECAS01I	M16 x 1,5	26	26	28,5	85	6 - 11	9 - 17	0,16
KOV12M	FECA12I	M20 x 1,5	34	34	38	95	6 - 12	15 - 25	0,3
KOV11M	FECAS1I	M20 x 1,5	34	34	38	100	12 - 15	15 - 25	0,3

Other dimension types you can see at exd.ru website.

FORMATION OF MARKING

KOV X X X / X - TU 3400-007-72453807-07



Example of order: **KOV2MNK - TU 3400-007-72453807-07**

- type of cable gland: KOV
- size and type of thread: 2M (metric thread M25x1.5)
- material: NK, nickel-plated brass